RAINGER LINEAR
PARTS MANUAL

AD10015

Revised:03/20/19

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RAINGER LINEAR PARTS MANUAL

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RAINGER LINEAR PARTS MANUAL

CART

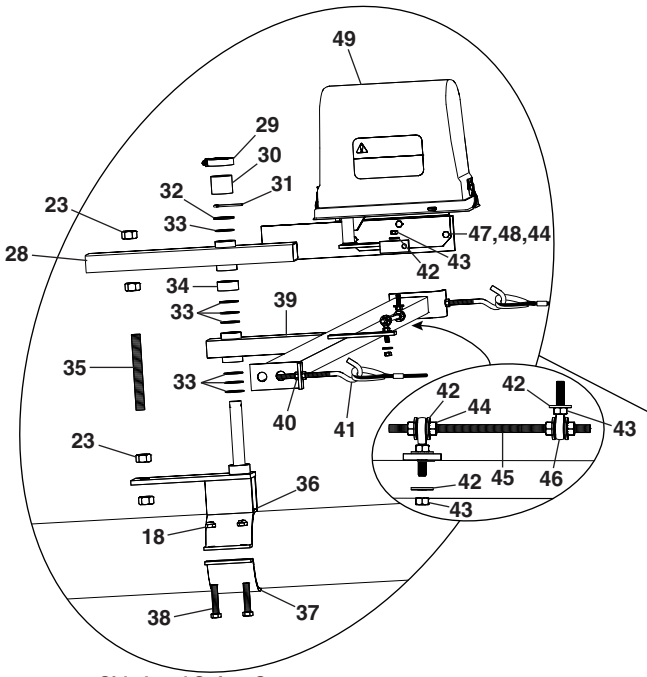
Rainger Linear - Effective 07/10

Description	Rev. #	Pg. #
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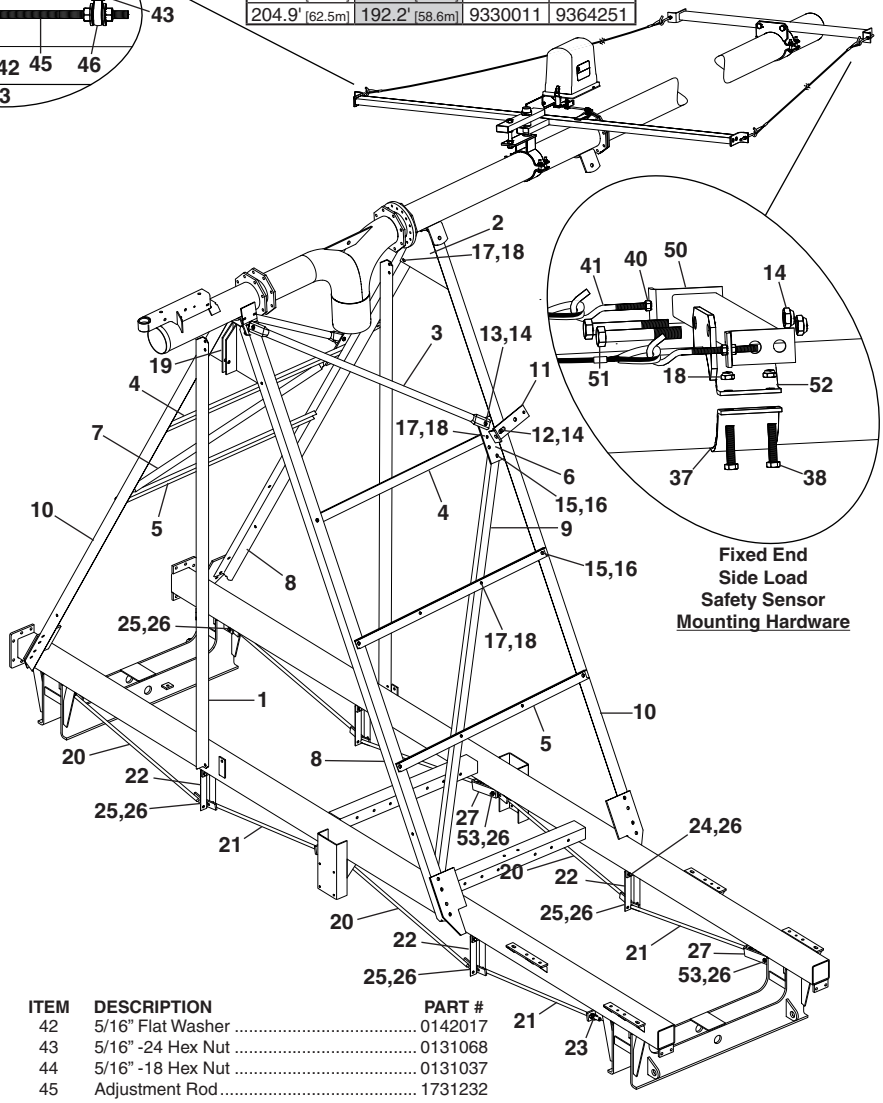
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SIDE LOAD SAFETY SENSOR CABLES			
Span Length	Cable Length	Galv. Part #	S.S. Part #
109.7' [33.4m]	99.8' [30.4m]	1780665	-
112.5' [34.3m]	99.8' [30.4m]	1780665	-
115.1' [35.1m]	99.8' [30.4m]	1780665	-
120.0' [36.6m]	107.5' [32.8m]	9361045	-
123.4' [37.6m]	107.5' [32.8m]	9361045	-
127.8' [39.0m]	112.9' [34.4m]	9361046	-
135.2' [41.2m]	120.9' [36.9m]	9361048	-
140.0' [42.7m]	125.5' [38.3m]	9361049	-
142.3' [43.4m]	129.9' [39.6m]	9330037	9364242
157.5' [48.0m]	139.9' [42.6m]	9361052	-
160.0' [48.8m]	149.9' [45.7m]	1731011	9364244
161.2' [49.1m]	149.9' [45.7m]	1731011	9364245
180.0' [54.9m]	169.9' [51.8m]	1781578	9364246
180.1' [54.9m]	169.9' [51.8m]	1781578	9364246
184.8' [56.3m]	174.6' [53.2m]	9330010	9364247
186.7' [56.9m]	174.6' [53.2m]	9330010	9364247
198.9' [60.6m]	184.2' [56.1m]	9361058	-
202.5' [61.7m]	188.6' [57.5m]	9330246	9364250
204.9' [62.5m]	192.2' [58.6m]	9330011	9364251



Side Load Safety Sensor
Mounting Hardware

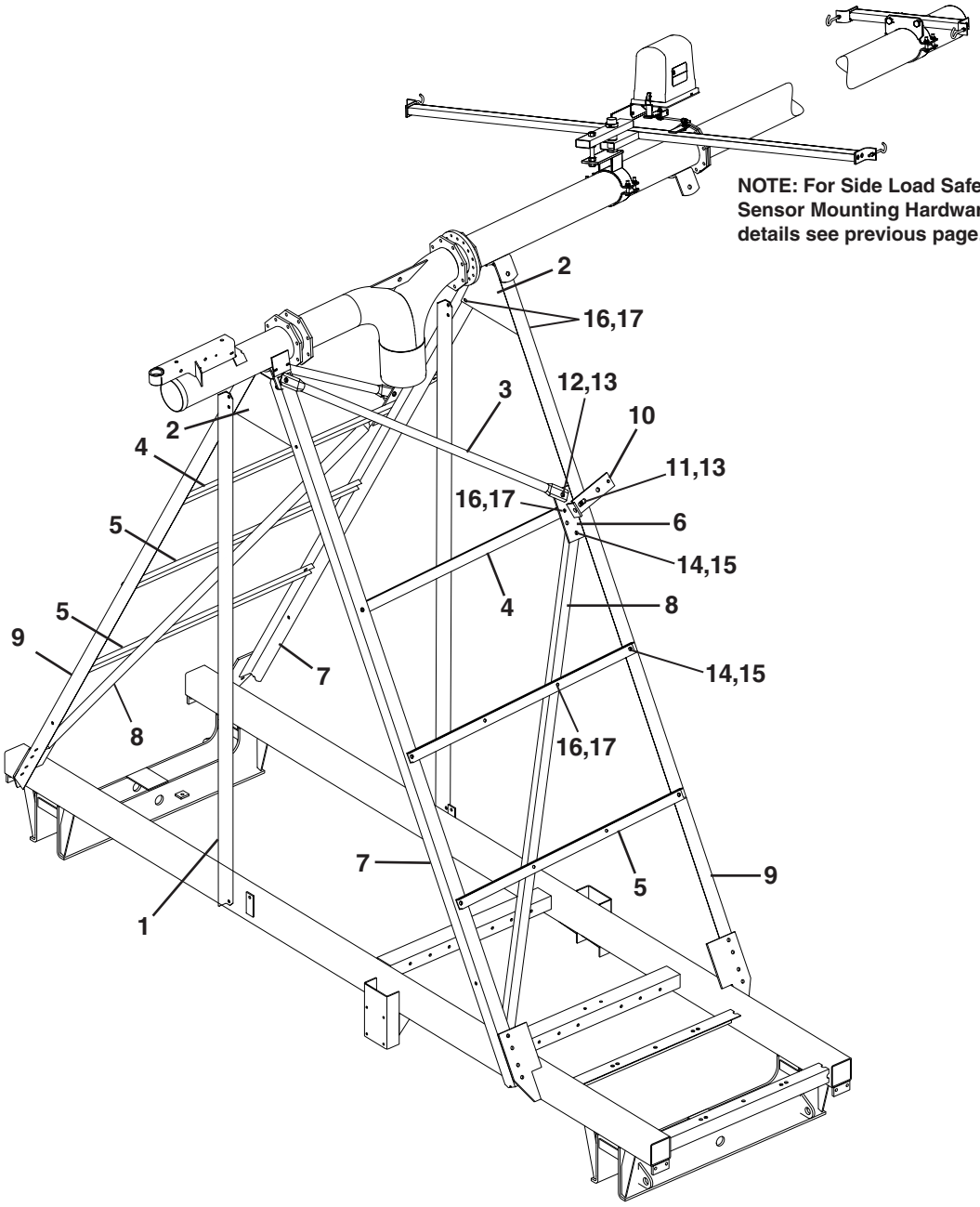
ITEM	DESCRIPTION	PART #
1	Support Angle	9362305
2	Reinforcement Plate	1780400
3	Upper Diagonal Brace	9362253
4	Upper Brace	9362250
5	Intermediate Brace	9362249
6	Brace Attachment Plate (Left)	9362265
	Brace Attachment Plate (Right)	9362266
7	Lower Diagonal Brace	9362252
8	Right Hand Drive Unit Leg	9360828
9	Lower Diagonal Brace-Long	9362251
10	Left Hand Drive Unit Leg	9360827
11	Tower Support Adjust Plate	9362267
12	3/4" x 3" Cap Screw	0161007
13	3/4" x 1-3/4" Cap Screw	0161139
14	3/4" Lock Nut	0133011
15	5/8" x 1-3/4" Cap Screw	0161088
16	5/8" Lock Nut	0133010
17	1/2" x 1-1/4" Cap Screw	0161027
18	1/2" Lock Nut	0133005
19	Reinforcement Plate (Lift)	9362272
20	3/4" Rod w/Straps	9363028
21	3/4" Threaded Rod w/Strap	9363031
22	Cart Truss Angle	9363026
23	3/4" Hex Nut	0131008
24	1/2" x 1-1/4" Cap Screw	0161420
25	1/2" x 2" Cap Screw	0161024
26	1/2" Lock Nut	0133005
27	Cable Support Bracket	1900024
28	Alignment Bar w/Bushing	9361041
29	Hose Clamp	0271064
30	Alignment Bearing Cap	0261033
31	Cotter Pin - 3/16"	0151015
32	1" Flat Washer	0141067
33	Alignment Washer	1730570
34	Alignment Bearing Sleeve	0993010
35	3/4" x 6-1/2" Stabilizer Stud	9360987
36	Alignment Mounting Bracket - 5"	9361506
	- 6-5/8"	9361909
	- 8-5/8"	9363502
	- 10"	9363521
37	Half Clamp (4-Bolt) - 5"	9360921
	- 6-5/8"	1700622
	- 8-5/8"	9330002
	(2-Bolt) - 10"	1702524
38	1/2" x 3" Cap Screw	0161136
39	Short Bar T-Bar w/Bushing	9361043
40	3/8" Hex Nut	0131018
41	3/8" x 8" Hook Bolt	0161366



Fixed End
Side Load
Safety Sensor
Mounting Hardware

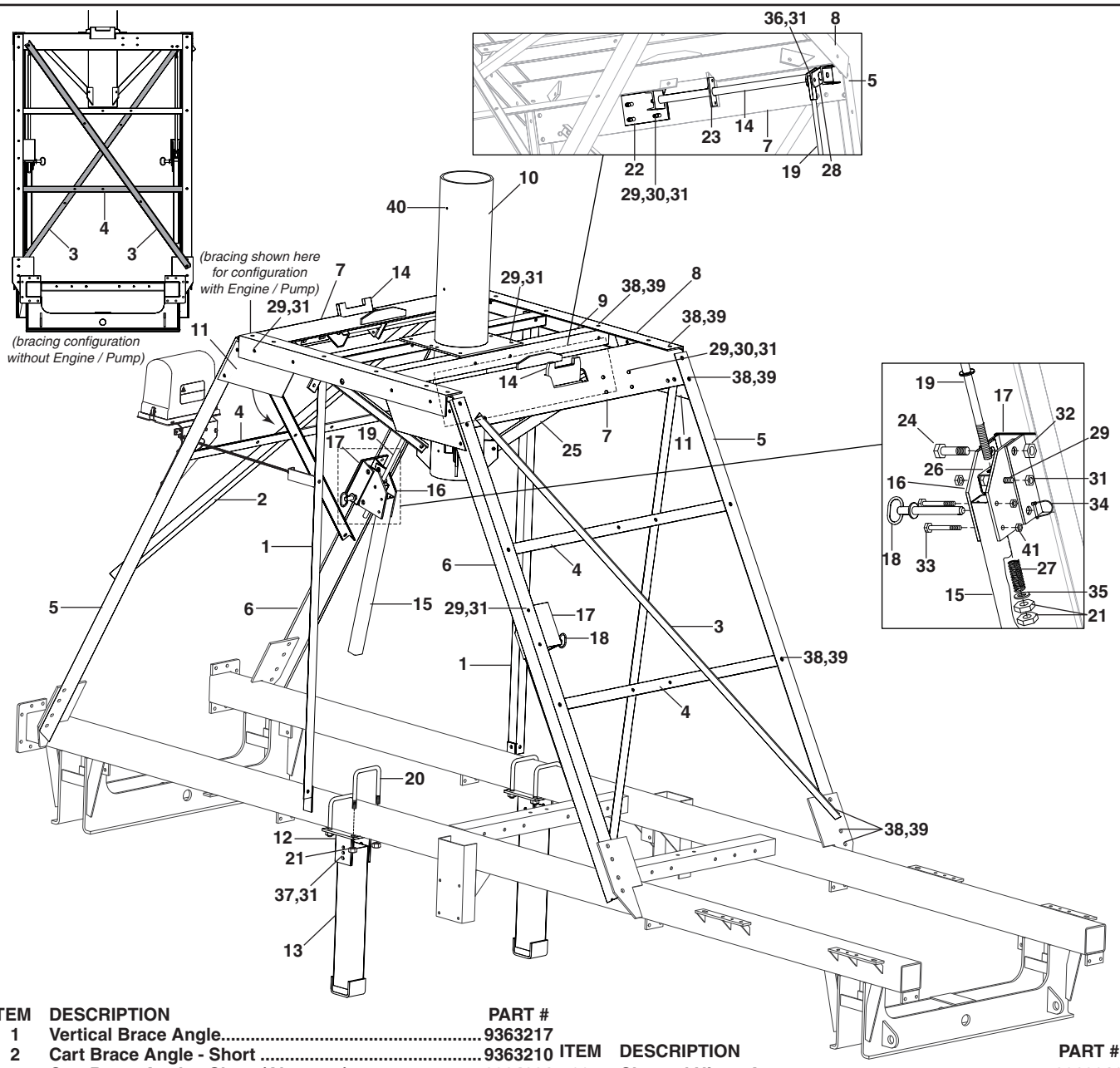
ITEM	DESCRIPTION	PART #
42	5/16" Flat Washer	0142017
43	5/16" -24 Hex Nut	0131068
44	5/16" -18 Hex Nut	0131037
45	Adjustment Rod	1731232
46	5/16" Ball Joint Rod End	0992984
47	5/16" x 1-1/4" Cap Screw	0161051
48	5/16" Lock Washer	0141008
49	Side Load Safety Sensor Box	1814706
50	Fixed End Cable Mount T-Bar	9363510
51	3/4" x 5" Cap Screw	0161144
52	Clamp-on Bracket Assm. - 5"	9363507
	- 6-5/8"	1701281
	- 8-5/8"	9362391
	- 10"	9362379
53	1/2" 1-1/2" Cap Screw	0161026

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ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Support Angle	9362305	9	Left Hand Drive Unit Leg	9360827
2	Reinforcement Plate	1780400	10	Tower Support Adjust Plate	9362267
3	Upper Diagonal Brace	9362253	11	3/4” x 3” Cap Screw	0161007
4	Upper Brace	9362250	12	3/4” x 1-3/4” Cap Screw	0161139
5	Intermediate Brace	9362249	13	3/4” Lock Nut	0133011
6	Brace Attachment Plate (Left)	9362265	14	5/8” x 1-3/4” Cap Screw	0161088
	Brace Attachment Plate (Right)	9362266	15	5/8” Lock Nut	0133010
7	Right Hand Drive Unit Leg	9360828	16	1/2” x 1-1/4” Cap Screw	0161027
8	Lower Diagonal Brace-Long	9362251	17	1/2” Lock Nut	0133005

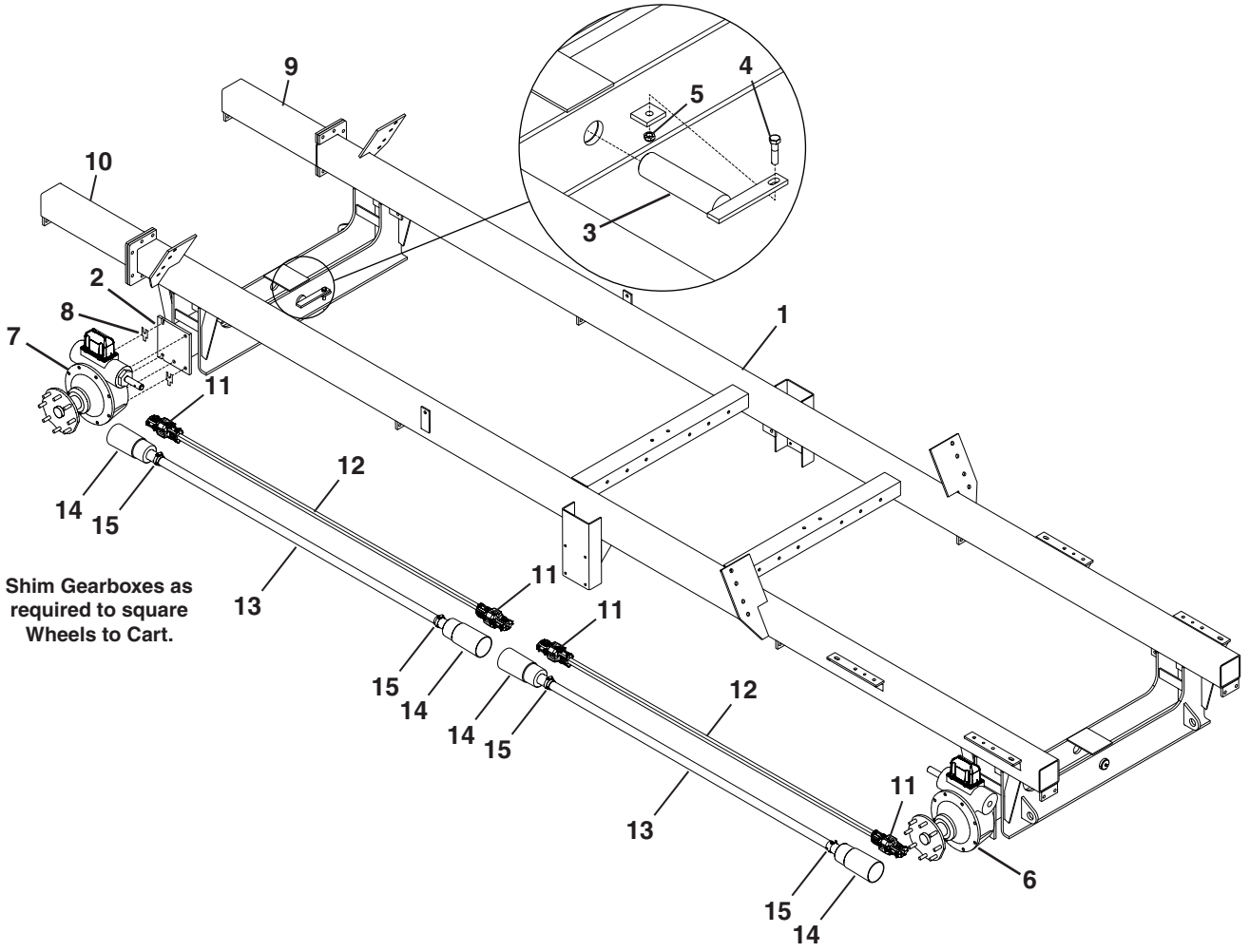
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ITEM	DESCRIPTION	PART #
1	Vertical Brace Angle	9363217
2	Cart Brace Angle - Short	9363210
	Cart Brace Angle - Short (Alternate)	9364601
3	Cart Brace Angle - Long	9363209
4	Cart Brace Strap	9363219
5	Drive Unit Leg - Right	9363207
6	Drive Unit Leg - Left	9363208
7	Headplate Assm.	9363243
8	Upper Drive Unit Angle	9363216
9	Riser Cross Brace Angle	9363215
10	Bearing Tube Assm.	9363228
11	Upper Drive Unit Gusset	9363281
12	Stabilizer Bracket Assm.	9363233
13	Stabilizer Leg Assm.	9363232
14	Latch Assm.	9363244
15	Lever Tube	1732896
16	Side Lever Plate	9363265
17	Lever Mount Assm.	9363236
18	3/4" Torque Pin	0112043
19	Linkage Rod Assm. - Threaded	9363234
20	3/4" x 7" U-Bolt	0176048
21	3/4" Hex Nut	0131008

ITEM	DESCRIPTION	PART #
22	Channel Hinge Assm.	9363318
23	Hinge Cap Bar	9363223
24	3/4" x 4" Cap Screw	0161006
25	Riser Brace Angle	9363212
26	Spring Block Tube	9363226
27	Compression Spring - 4.50"	0181097
28	3/4" Shim	0997433
29	1/2" x 1-1/4" Cap Screw	0161027
30	1/2" Flat Washer	0142025
31	1/2" Lock Nut	0133005
32	3/4" Lock Nut	0133011
33	3/8" x 3-1/2" Cap Screw	0161150
34	Clevis Pin	0112042
35	3/4" Flat Washer	0142027
36	1/2" x 2" Cap Screw	0161024
37	1/2" x 5-1/2" Cap Screw	0161018
38	5/8" x 1-3/4" Cap Screw	0161088
39	5/8" Lock Nut	0133010
40	Grease Fitting w/Check Ball	0991051
41	3/8" Lock Nut	0133006

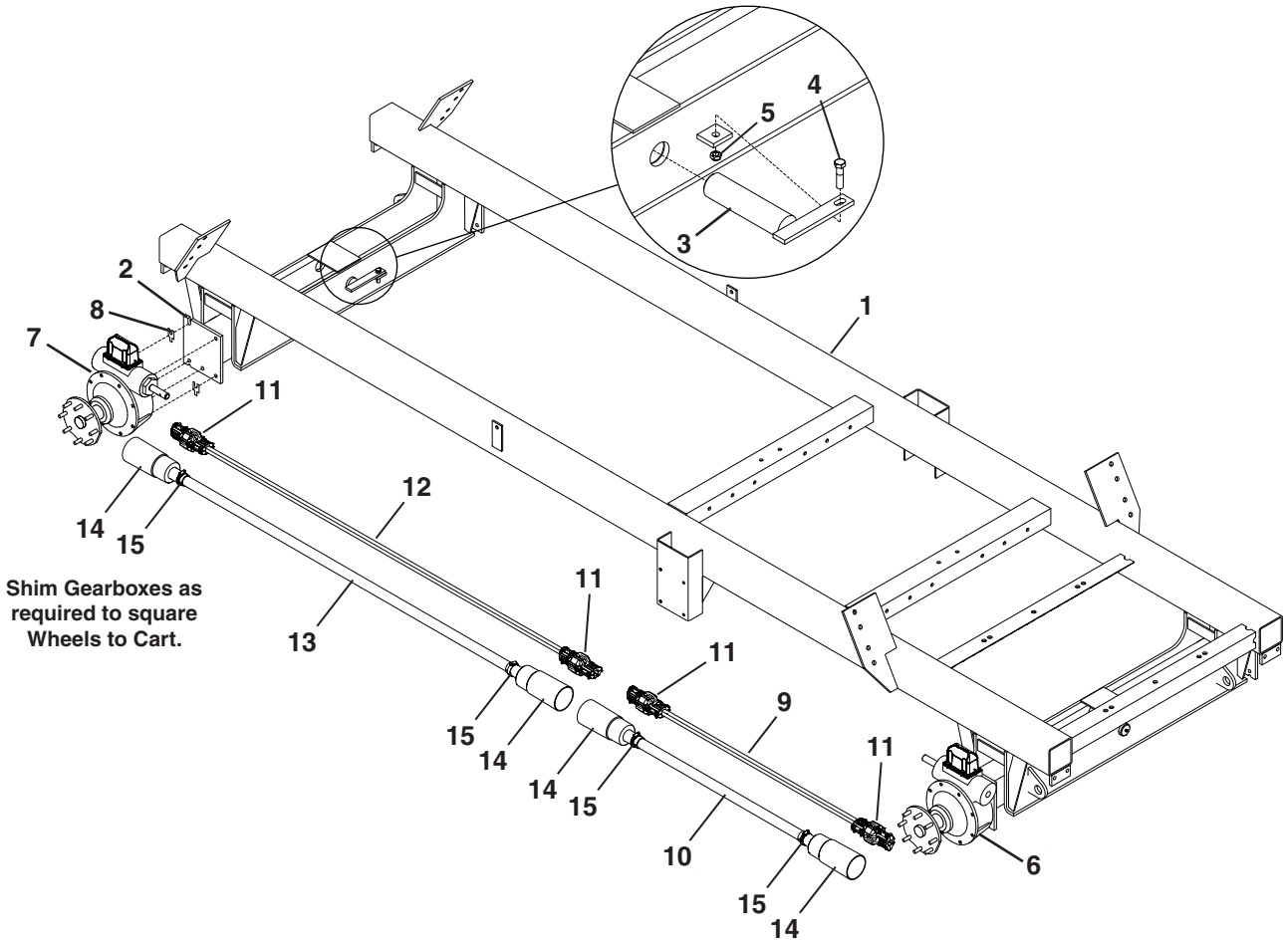
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ITEM	DESCRIPTION	PART #
1	Long Cart Frame Assm.	9362247 *
2	Axle Assembly	9362275 *
3	Linear Axle Pin w/ Grease Zerk Assm.	9362002 *
4	1/2" x 2" Cap Screw	0161024 *
5	1/2" Lock Nut	0133005 *
6	Gearbox-Rear	1701965
	Gearbox-Rear Heavy Duty-Bronze Gear	1732143
7	Gearbox-Front	1701966
	Gearbox-Front Heavy Duty-Bronze Gear	1732144
8	Caster-Camber Shim 1/32" (As Required)	0143048
	Caster-Camber Shim 1/8" (As Required)	0143049
	Caster-Camber Shim 5/32" (As Required)	0143050
9	Frame Extension, Right	9362317
10	Frame Extension, Left	9362277
11	Universal Joint (Standard)	KA01300
	Universal Joint (Steel)	KA01073
12	Drive Shaft (High Profile)(Standard)	1702284
	Drive Shaft (High Profile)(Steel)	1703803
13	Drive Shaft Shields (High Profile)	0992717
14	U-Joint Shield	1702614
15	Clamp	0271013

* Cart Frame Assm. - Long (Includes items 1 thru 5) 9364616
NOTE: Items 9 & 10 are only provided for large Engine/Pump and Generator Combinations.

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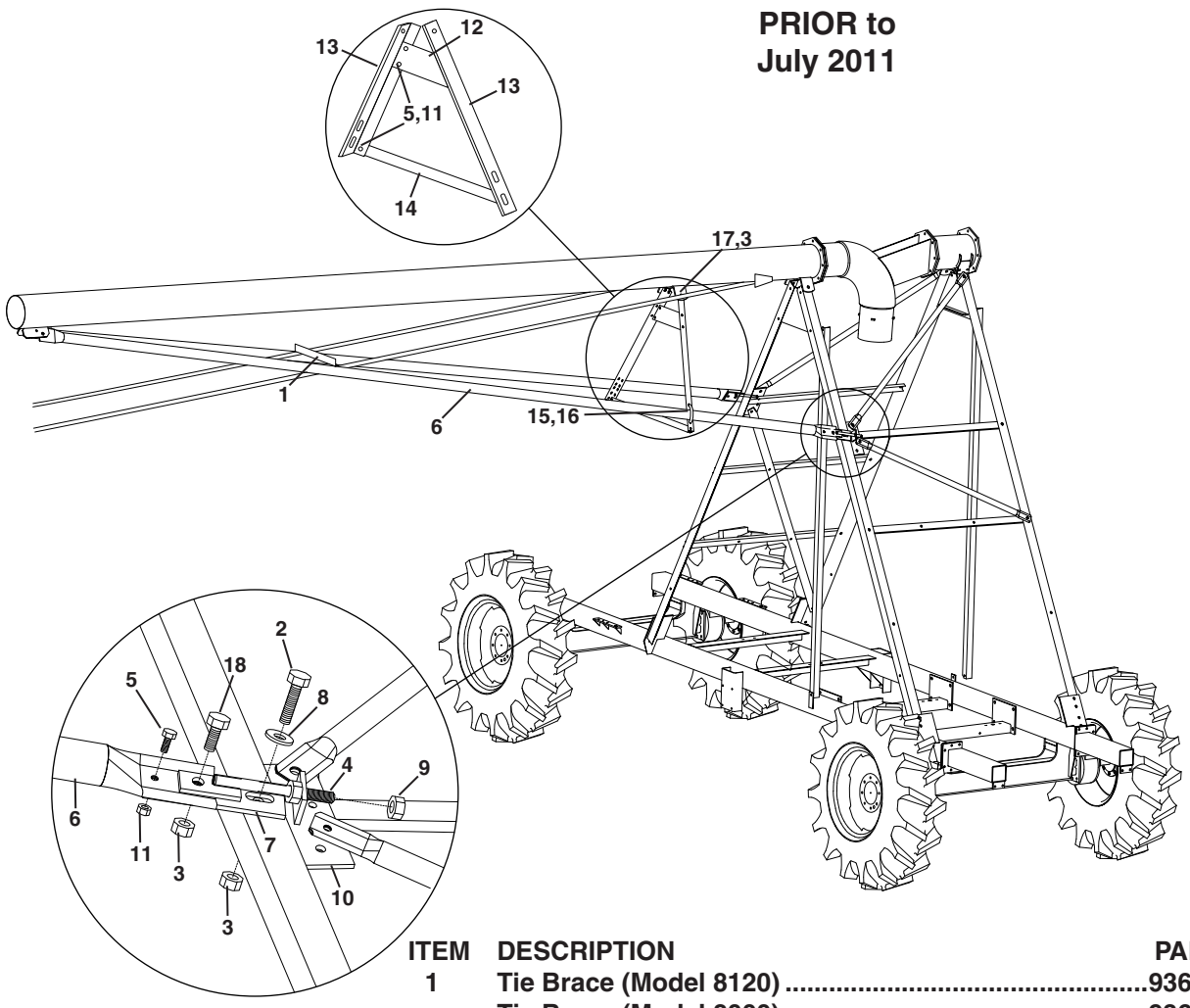


ITEM	DESCRIPTION	PART #
1	Short Cart Frame Assm	9363912 *
2	Axle Assembly	9362275 *
3	Linear Axle Pin w/ Grease Zerk Assm.	9362002 *
4	1/2" x 2" Cap Screw	0161024 *
5	1/2" Lock Nut	0133005 *
6	Gearbox-Rear	1701965
	Gearbox-Rear Heavy Duty-Bronze Gear	1732143
7	Gearbox-Front	1701966
	Gearbox-Front Heavy Duty-Bronze Gear	1732144
8	Caster-Camber Shim 1/32" (As Required)	0143048
	Caster-Camber Shim 1/8" (As Required)	0143049
	Caster-Camber Shim 5/32" (As Required)	0143050
9	Drive Shaft (Low Profile)(Standard)	1702258
	Drive Shaft (Low Profile)(Heavy Duty)	9363913
10	Drive Shaft Sheild (Low Profile)	0992716
11	Universal Joint (Standard)	KA01300
	Universal Joint (Steel)	KA01073
12	Drive Shaft (High Profile)(Standard)	1702284
	Drive Shaft (High Profile)(Steel)	1703803
13	Drive Shaft Shield (High Profile)	0992717
14	U-Joint Shield	1702614
15	Clamp	0271013

* Cart Frame Assm. - Short (Includes items 1 thru 5) 9364617

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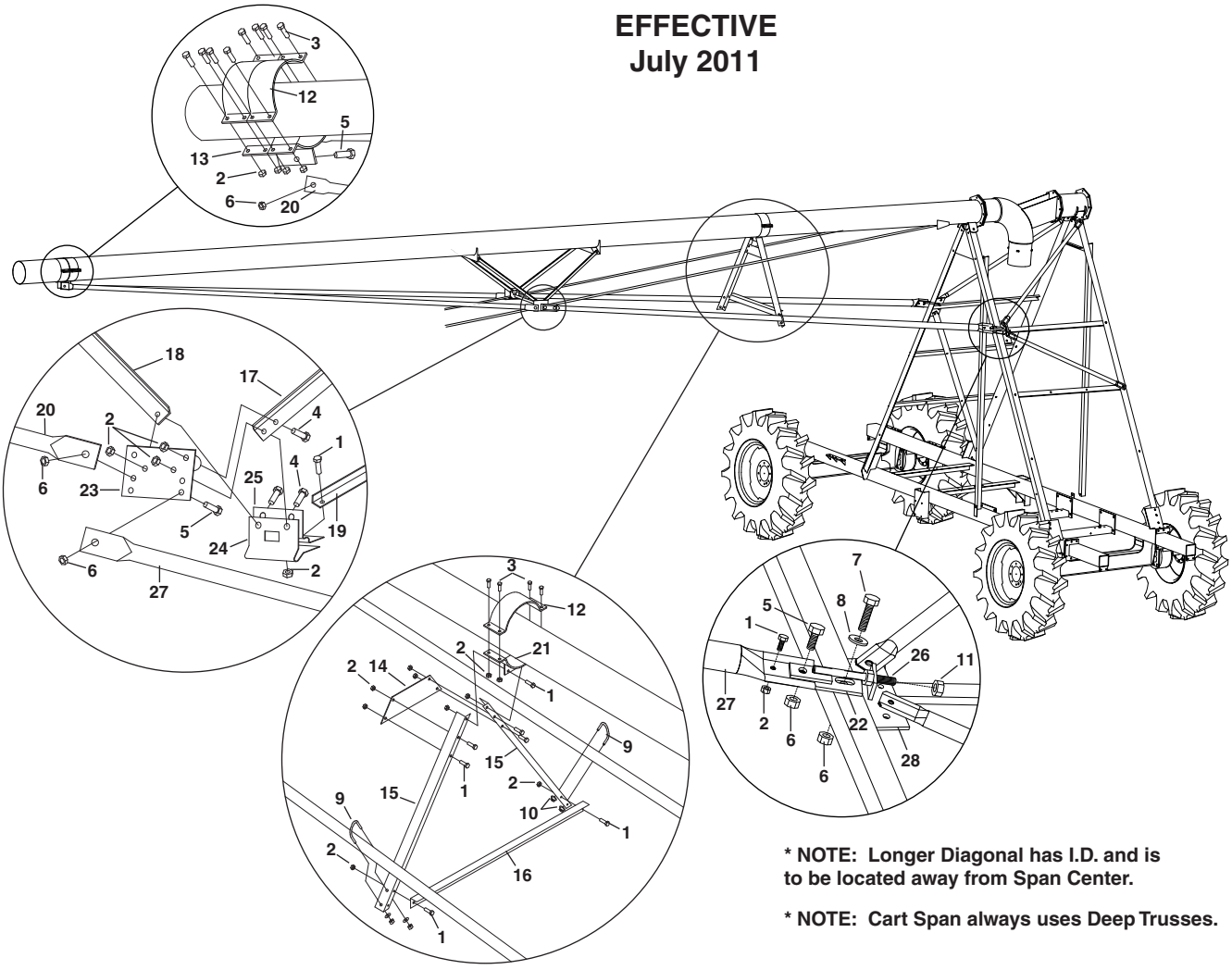
PRIOR to July 2011



ITEM	DESCRIPTION	PART #
1	Tie Brace (Model 8120)	9362312
	Tie Brace (Model 8000)	9362449
	Tie Brace (Model 6000 - 10”)	9362450
2	3/4” x 3” Cap Screw	0161007
3	3/4” Lock Nut	0133011
4	Length Adjustment Bolt	9362270
5	1/2” x 1-1/4” Cap Screw	0161027
6	Tower Support (Model 8120)	9362284
	Tower Support (Model 8000)	9362320
	Tower Support (Model 6000 - 10”)	9362321
7	Tower Support Adjustment Plate	9362267
8	3/4” Flat Washer	0142027
9	3/4” Hex Nut	0131008
10	Brace Attachment Plate, Left	9362265
	Brace Attachment Plate, Right	9362266
11	1/2” Lock Nut	0133005
12	Gusset	1730811
13	Truss Leg	9362288
14	Spreader	9362287
15	3/8” x 4” x 3” U-Bolt	0175005
16	3/8” Flange Nut	0134055
17	3/4” x 2-1/2” Cap Screw	0161159
18	3/4” x 1-3/4” Cap Screw	0161139

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EFFECTIVE
July 2011



*** NOTE: Longer Diagonal has I.D. and is to be located away from Span Center.**

*** NOTE: Cart Span always uses Deep Trusses.**

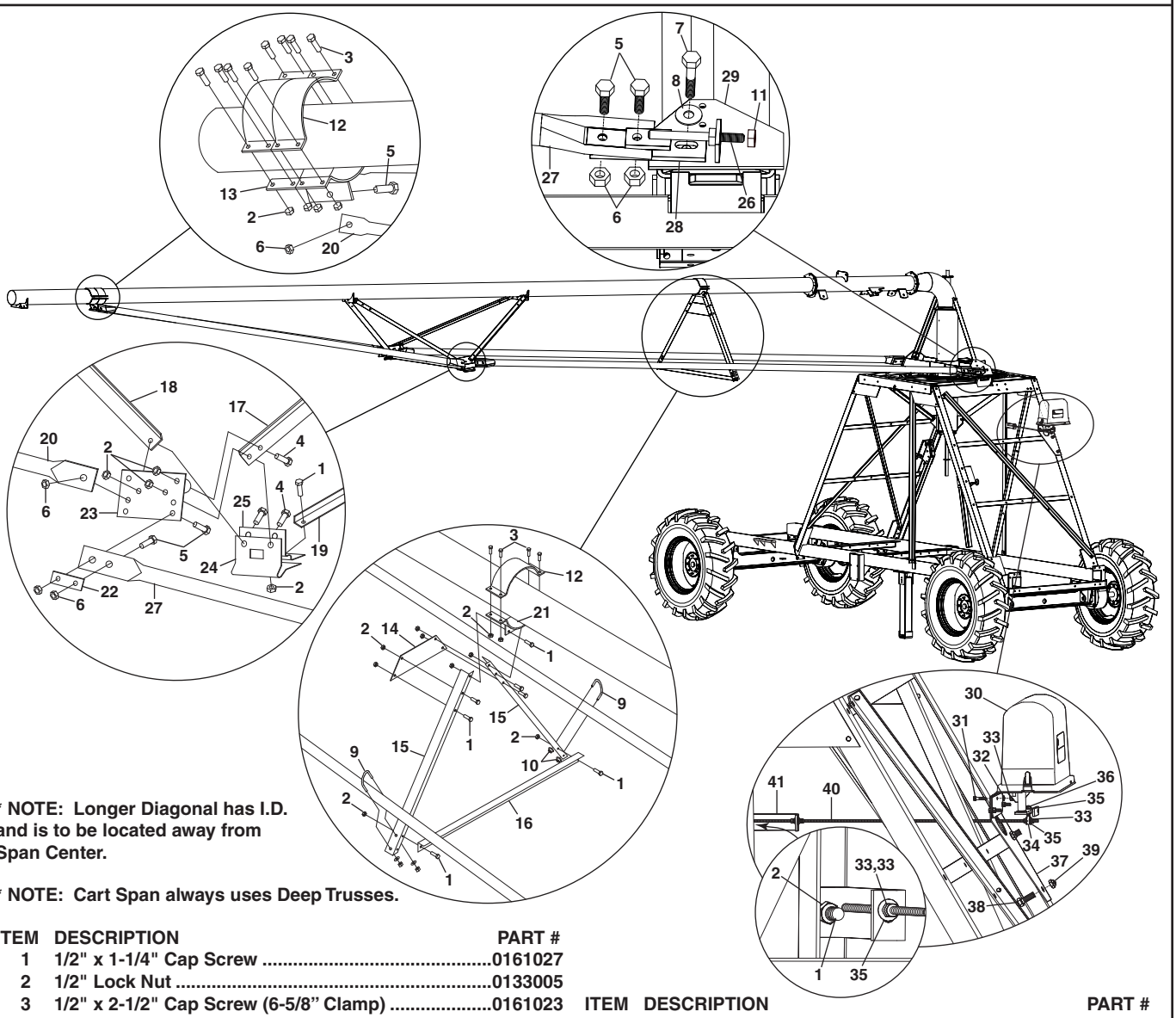
ITEM	DESCRIPTION	PART #
1	1/2" x 1-1/4" Cap Screw	0161027
2	1/2" Lock Nut	0133005
3	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
4	1/2" x 3-1/2" Cap Screw	0161060
5	3/4" x 1-3/4" Cap Screw	0161139
6	3/4" Lock Nut	0133011
7	3/4" x 3" Cap Screw	0161007
8	3/4" Flat Washer	0142027
9	3/8" x 4" x 3" U-Bolt	0175005
10	3/8" Flange Nut	0141007
11	3/4" Hex Nut	0131008
12	6-5/8" Pipe Clamp	1700622
	8-5/8" Pipe Clamp	9330002
13	6-5/8" Half Clamp w/Ears	1781207
	8-5/8" Half Clamp w/Ears	9360194
14	Trapezoid Plate	9360187
15	Truss Diagonal, 53.74"[1365.0mm] Lg	9332009
16	Angle Spreader, 60.12"[1527.0mm] Lg	9360188
17	Truss Diag. w/I.D. Hole, 61.68"[1566.7mm] Lg (8000)	9360052*
	Truss Diag. w/I.D. Hole, 63.36" [1,609m] Lg (8120)	9360735*

ITEM	DESCRIPTION	PART #
18	Truss Diagonal, 58.81"[1493.8mm] Lg	9360074
	Truss Diagonal, 60.67" [1,541m] Lg (8120)	9360734
19	Truss Spreader, 52.25"[1327.2mm] Lg	9360053
	Truss Spreader, 56.00" [1,422m] Lg (8120)	9360736
20	Tower Support, 15'-11.75"[487.1cm] Lg (8120)	9360722
	Tower Support, 14'-9.75"[451.5cm] Lg (8000)	9360071
21	6-5/8" Truss Hanger	9360177
	8-5/8" Truss Hanger	9360193
22	Tower Support Adjustment Plate	9362267
23	Support Plate	9332020
24	Outer Socket	9360069
25	Inner Socket	9360070
26	Length Adjustment Bolt	9362270
27	Tower Support 21'-7.75"[659.8mm] Lg (8000)	9362754
	Tower Support 22'-10.31"[696.8mm] Lg (8120)	9362755
	Tower Support (6000 - 10")	9362321
28	Brace Attachment Plate, Left	9362260
	Brace Attachment Plate, Right	9362261

*** NOTE: Longer Diagonal has I.D. and is to be located away from Span Center.**

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Functional Area	Assembly / Part	Rev# 10-14
Cart	Swing-Around Tower Support & Truss	



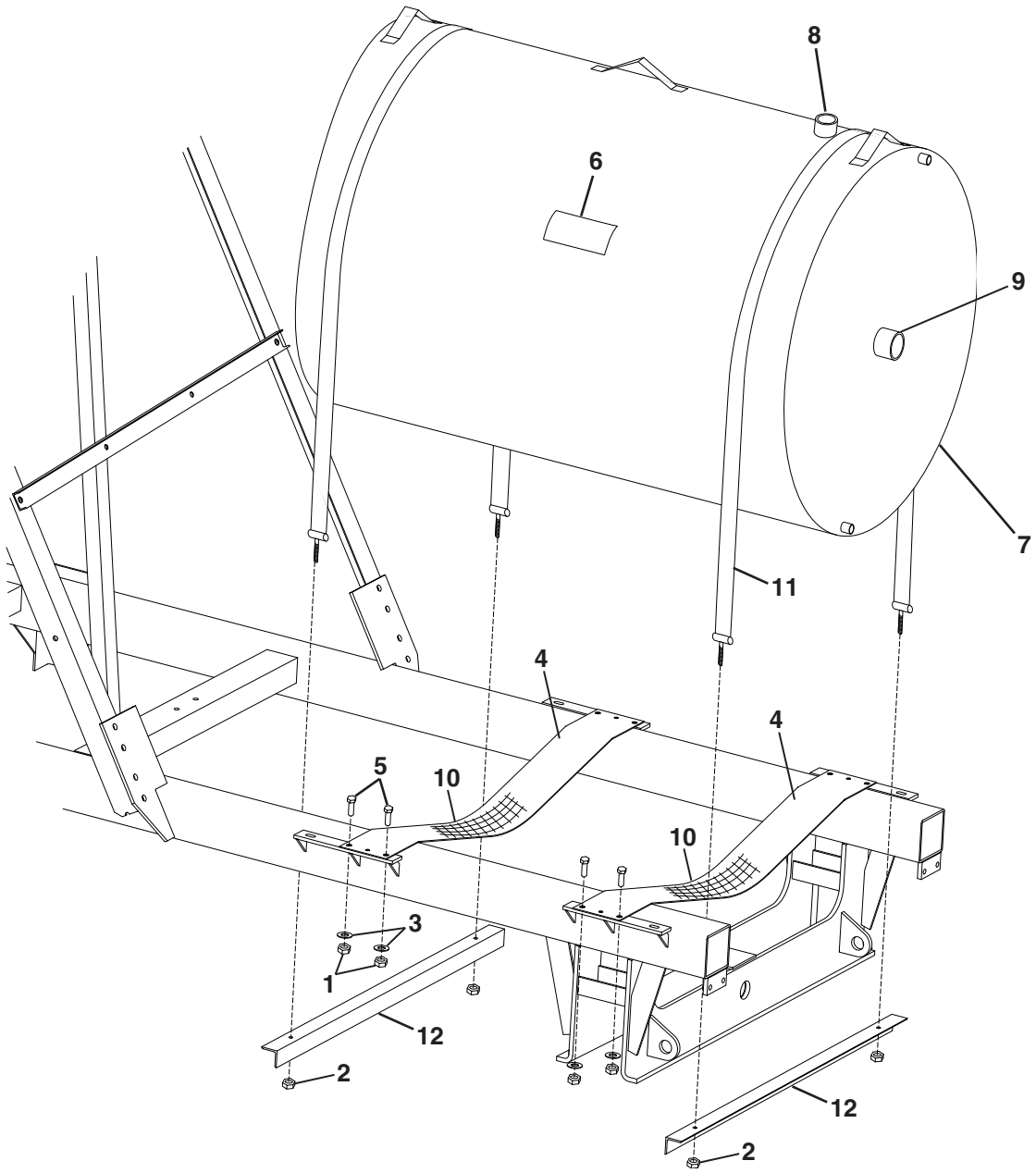
*** NOTE: Longer Diagonal has I.D. and is to be located away from Span Center.**

*** NOTE: Cart Span always uses Deep Trusses.**

ITEM	DESCRIPTION	PART #
1	1/2" x 1-1/4" Cap Screw	0161027
2	1/2" Lock Nut	0133005
3	1/2" x 2-1/2" Cap Screw (6-5/8" Clamp)	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
4	1/2" x 3-1/2" Cap Screw	0161060
5	3/4" x 1-3/4" Cap Screw	0161139
6	3/4" Lock Nut	0133011
7	3/4" x 3" Cap Screw	0161007
8	3/4" Flat Washer	0142027
9	3/8" x 4" x 3" U-Bolt	0175005
10	3/8" Flange Nut	0141007
11	3/4" Hex Nut	0131008
12	6-5/8" Pipe Clamp (6-5/8" Clamp)	1700622
	8-5/8" Pipe Clamp (8-5/8" Clamp)	9330002
13	6-5/8" Half Clamp w/Ears (6-5/8" Clamp)	1781207
	8-5/8" Half Clamp w/Ears (8-5/8" Clamp)	9360194
14	Truss Gusset Plate	9363220
15	Truss Support Angle	9363213
16	Spreader Angle	9363214
17	Truss Diag. w/I.D. Hole, 61.68" [1,567m] Lg (8000)	9360052*
	Truss Diag. w/I.D. Hole, 63.36" [1,609m] Lg (8120)	9360735*
18	Truss Diagonal, 58.81" [1,494m] Lg (8000)	9360074
	Truss Diagonal, 60.67" [1,541m] Lg (8120)	9360734
19	Truss Spreader, 52.25" [1,327m] Lg (8000)	9360053
	Truss Spreader, 56.00" [1,422m] Lg (8120)	9360736
20	Tower Support, 15'-11.75" [4,870m] Lg	9360722

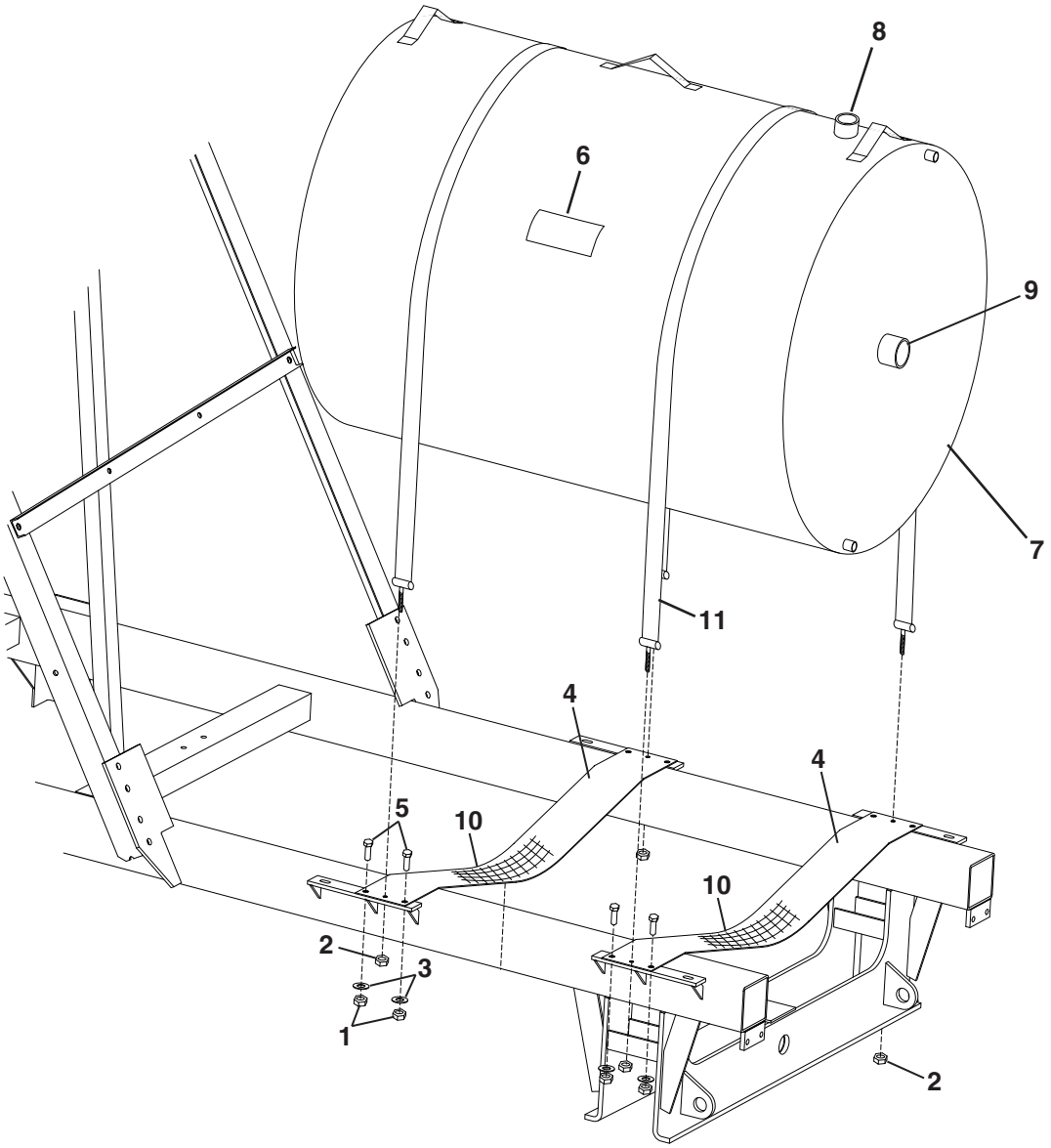
ITEM	DESCRIPTION	PART #
21	Truss Hanger (6-5/8")	9360177
	Truss Hanger (8-5/8")	9360193
22	Reinforcement Plate	9332015
23	Support Plate	9332020
24	Outer Socket	9360069
25	Inner Socket	9360070
26	Length Adjustment Bolt	9362270
27	Tower Support, 23.74' [7,236m] Lg (8000)	9363225
	Tower Support, 24.94' [7,602m] Lg (8120)	9363323
28	Tower Support Adjustment Plate	9363221
29	Swing-Around Swivel Yoke Assm.	9363229
30	Side Load Safety Sensor Box	1814706
31	5/16" x 1-1/4" Cap Screw	0161051
32	5/16" Lock Washer	0141008
33	5/16" -18 Hex Nut	0131037
34	5/16" Ball Joint Rod End	0992984
35	5/16" Flat Washer	0142017
36	5/16" -24 Hex Nut	0131068
37	Side Load Sensor Mount	9363500
38	5/8" x 1-3/4" Cap Screw	0161088
39	5/8" Lock Nut	0133010
40	5/16" x 3' Threaded Rod - Stainless Steel	9363776
41	Control Bracket	9360896

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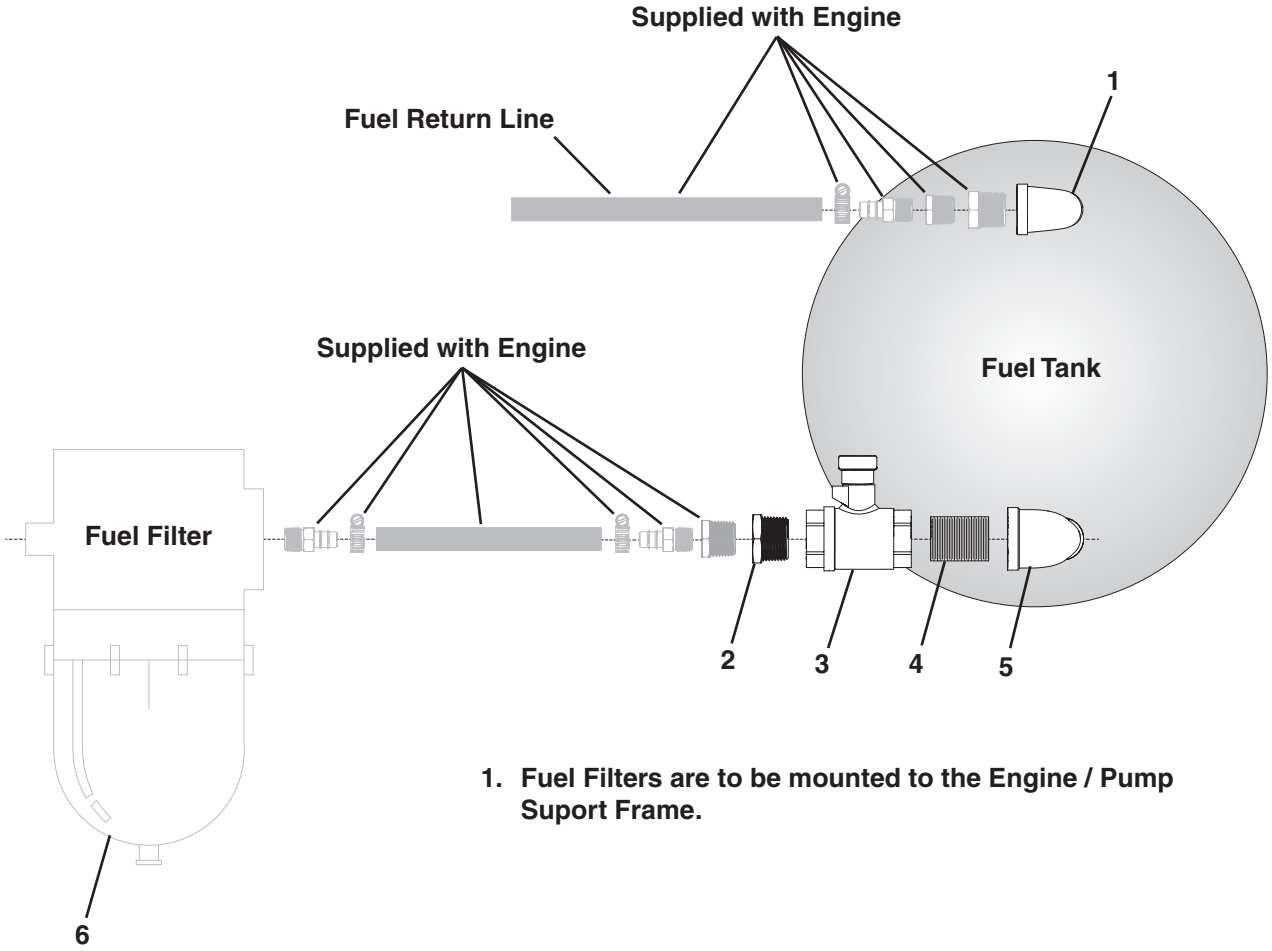
ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	3/8" Lock Nut	0133006
3	1/2" Flat Washer	0142025
4	Tank Saddle	9362230
5	1/2" x 1-1/4" Cap Screw	0161027
6	Decal - Fuel Tank	0991691
7	Fuel Tank - 180 Gallon	0997123
	Fuel Tank - 300 Gallon	0992217
8	Fuel Cap - 2" NPT	0992219
9	Fuel Gauge w/Float - 180 Gallon	0997134
	Fuel Gauge w/Float - 300 Gallon	0992220
10	Belting - Tank Saddle	0996905
11	Fuel Tank Mounting Strap - 180 Gallon	9362623
	Fuel Tank Mounting Strap - 300 Gallon	9362456
12	Fuel Tie Down Angle	9362231

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ITEM	DESCRIPTION	PART #
1	1/2” Lock Nut	0133005
2	3/8” Lock Nut	0133006
3	1/2” Flat Washer	0142025
4	Tank Saddle	9362457
5	1/2” x 1-1/4” Cap Screw	0161027
6	Decal - Fuel Tank	0991691
7	Fuel Tank - 425 Gallon	0997065
	Fuel Tank - 600 Gallon	0997064
8	Fuel Cap - 2” NPT	0992219
9	Fuel Gauge w/Float - 425 Gallon	0997066
	Fuel Gauge w/Float - 600 Gallon	0993382
10	Belting - Tank Saddle	0993459
11	Fuel Tank Mounting Strap - 425 Gallon	9362456
	Fuel Tank Mounting Strap - 600 Gallon	1731738

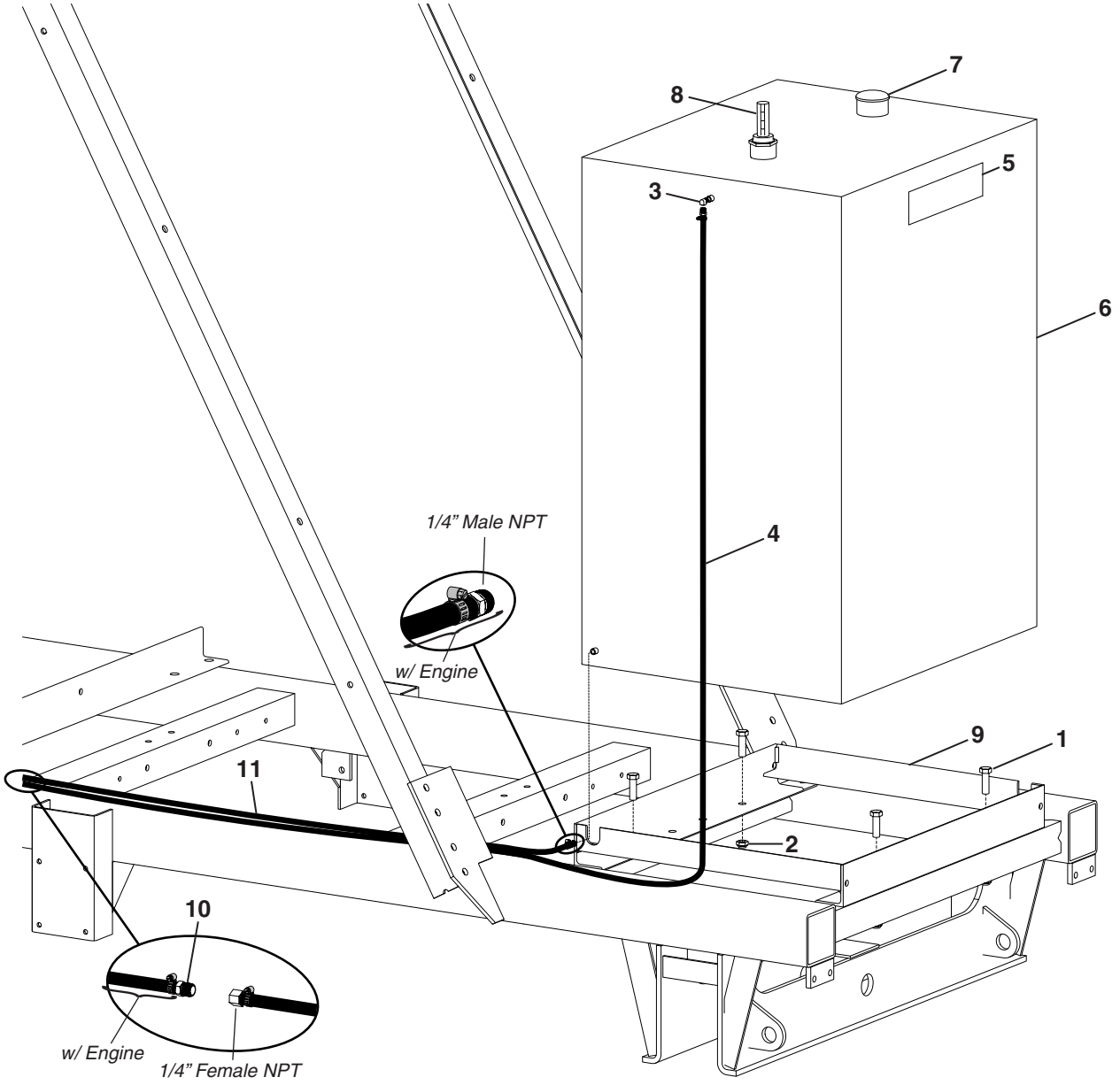
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1. Fuel Filters are to be mounted to the Engine / Pump Suport Frame.

ITEM	DESCRIPTION	PART #
1	1/2" x 90° Street Elbow	0241056
2	3/4" x 1/2" Reducing Bushing	0244029
3	3/4" Ball Valve	0232045
4	3/4" x 1-3/8" Close Nipple	0211015
5	3/4" x 90° Street Elbow	0241012
6	Racor Fuel Filter (optional)	0995385

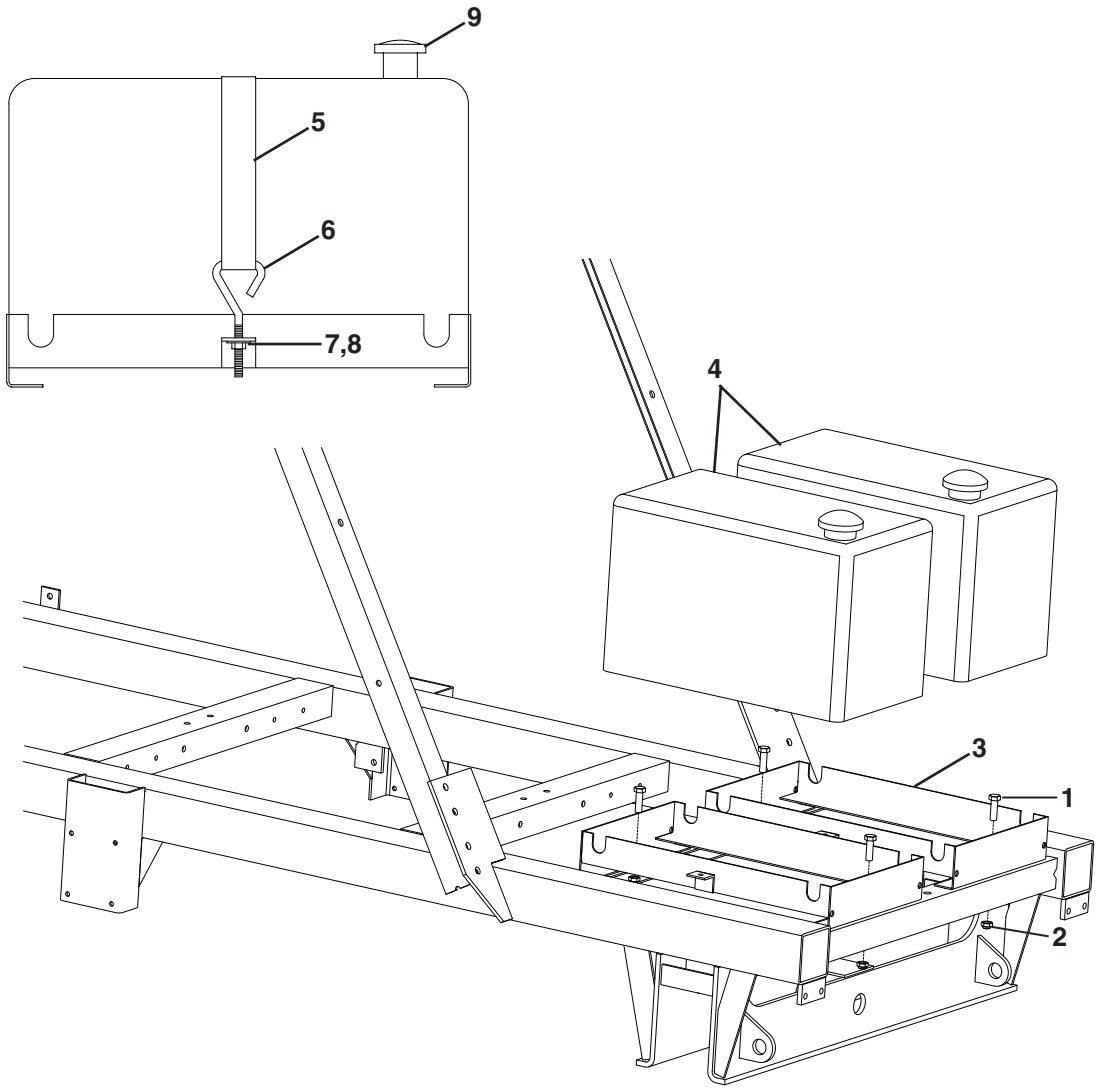
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ITEM	DESCRIPTION	PART #
1	5/8" x 1-3/4" Cap Screw	0161088*
2	5/8" Lock Nut	0133010*
3	90° Street Elbow	0995201*
4	Fuel Hose Assm. - 10' Long (male and female ends)	0996280*
5	Decal - Fuel Tank	0991691*
6	Fuel Tank - 200 Gallon	0995698
7	Fuel Cap - 2" NPT	0992219*
8	Fuel Gauge w/Float - 200 Gallon	0992765
9	Fuel Tank Mount Assm.	9330190
10	1/4" NPT x 3/8" Hose Barb	0271054*
11	Fuel Hose Assm. - 4' Long w/ Male & Female Ends	0996282*

* Short Cart Fuel Tank Kit KA01439

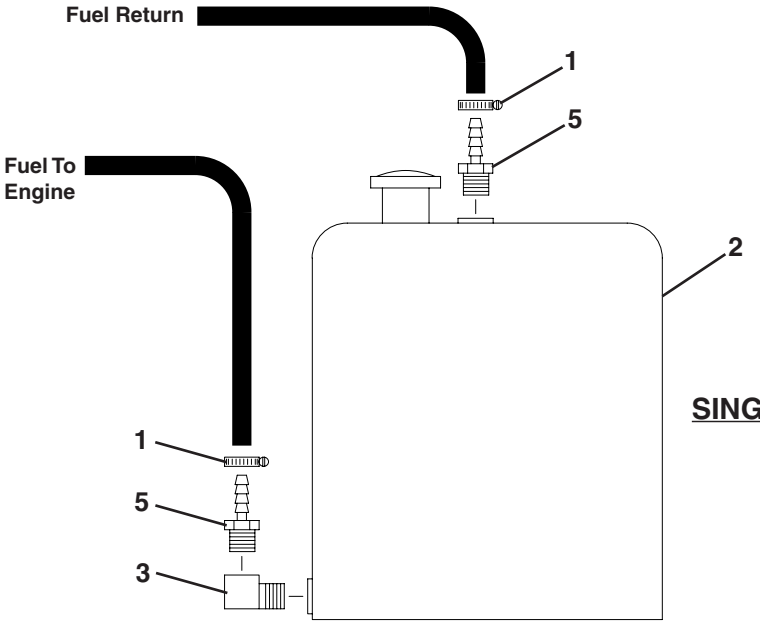
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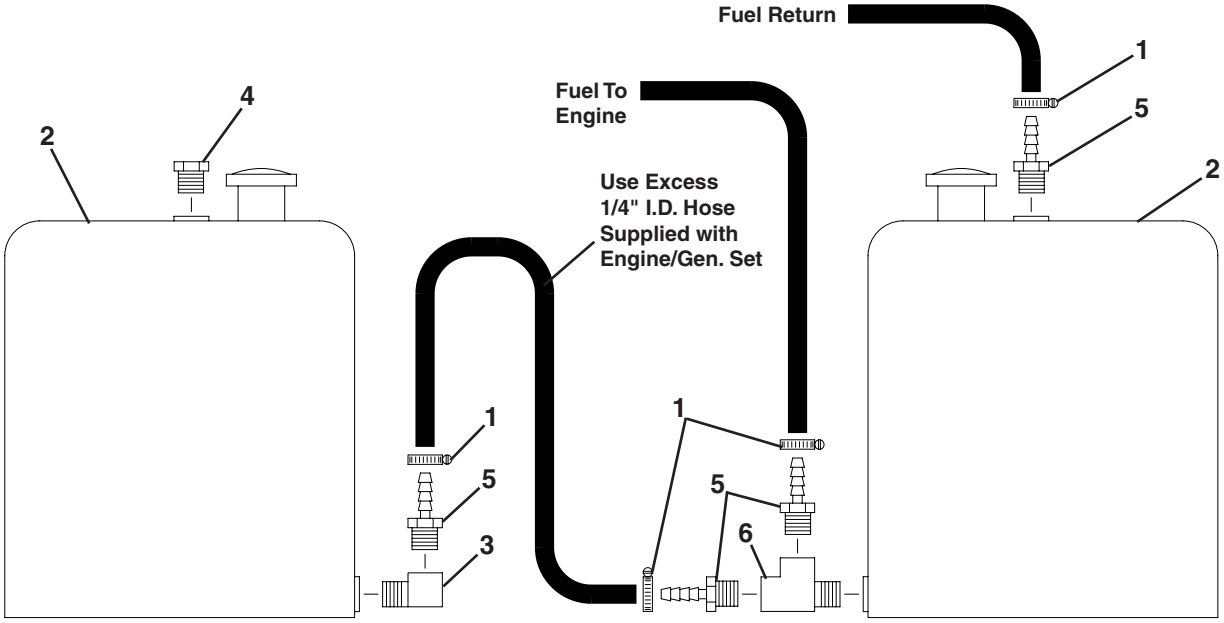
ITEM	DESCRIPTION	PART #
1	5/8” x 1-3/4” Cap Screw	0161088
2	5/8” Lock Nut	0133010
3	Fuel Tank Support Assm.	9332030
4	Fuel Tank - 30 Gallon	0994938
5	Fuel Tank Tie Down Strap	0995589
6	Strap Hook Bolt	*
7	3/8” Nylon Lock Nut	*
8	3/8” Flat Washer	*
9	Fuel Tank Cap	*

*** Items included with Tie Down Strap.**

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SINGLE FUEL TANK

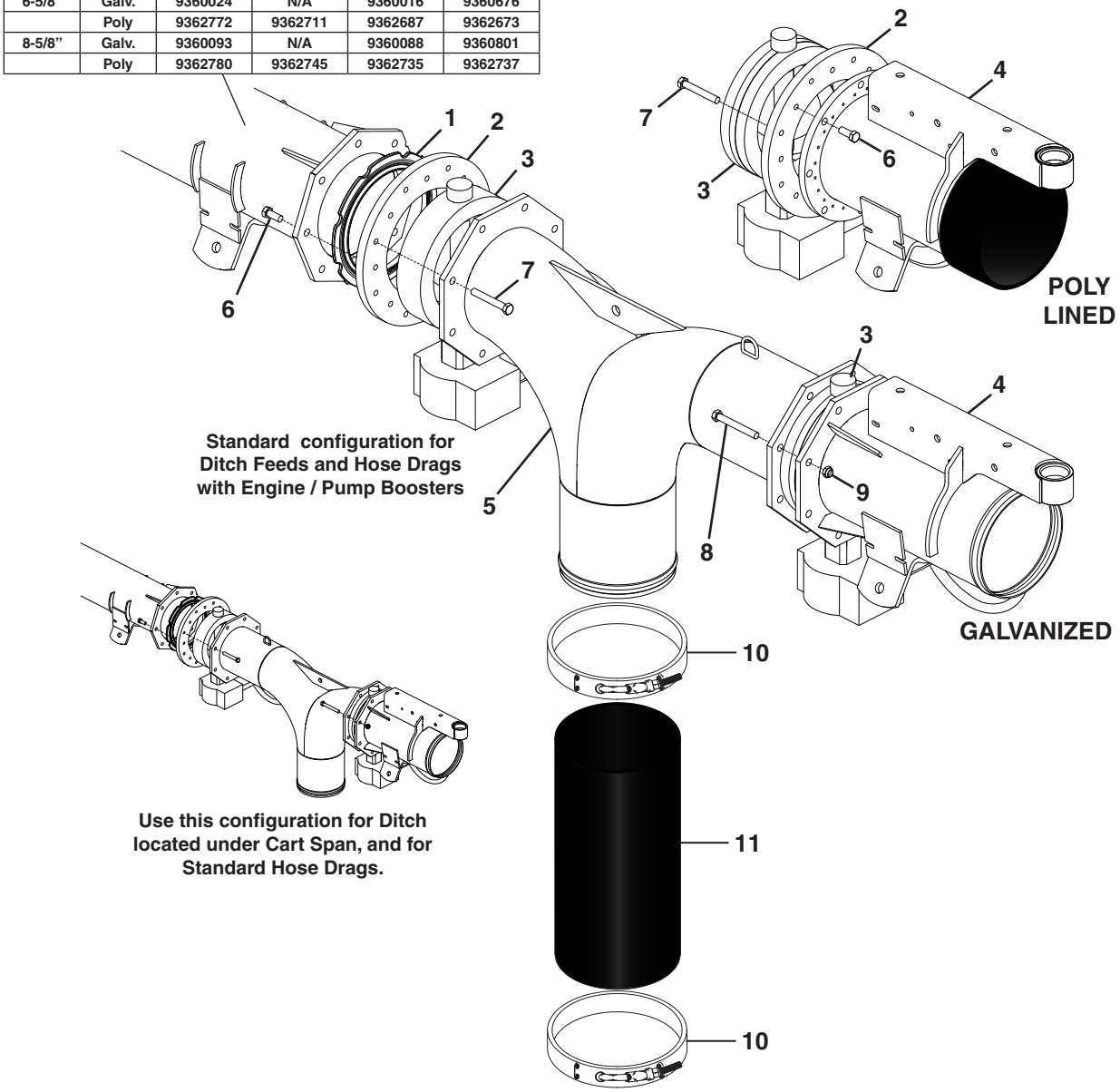


OPTIONAL DUAL FUEL TANKS

ITEM	DESCRIPTION	PART #
1	Hose Clamp 1/4" - 5/8"	0272018
2	30 Gallon Fuel Tank - Polyethylene	0994938
3	Street Elbow 1/4" NPT	0995201
4	Hex Head Plug 1/4" NPT	0995202
5	Hose Barb 1/4" NPT x 1/4" I.D. Hose	0995203
6	Street Tee 1/4"M x 1/4"F x 1/4"F	0995204

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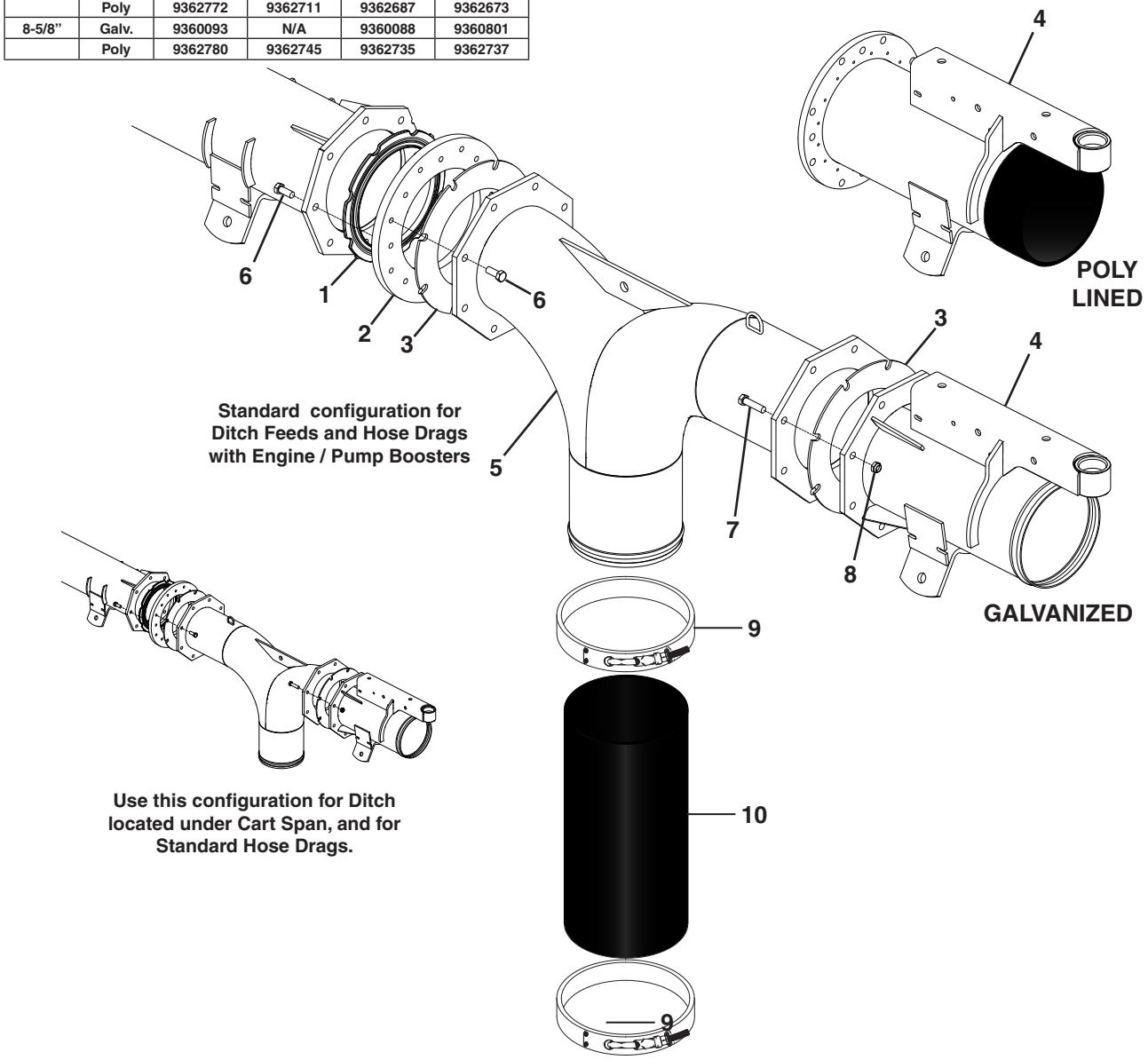
Pipe Diameter	Finish	Model 8000 Spacing 30"	60"	108"	Model 8120 Stub Pipes
6-5/8"	Galv.	9360024	N/A	9360016	9360676
	Poly	9362772	9362711	9362687	9362673
8-5/8"	Galv.	9360093	N/A	9360088	9360801
	Poly	9362780	9362745	9362735	9362737



ITEM	DESCRIPTION	GALVANIZED 6-5/8" Pipe PART #	GALVANIZED 8-5/8" Pipe PART #	POLY MACHINE 6-5/8" Pipe PART #	POLY MACHINE 8-5/8" Pipe PART #
1	Flange Gasket	0991107	0994500	N/A	N/A
2	Flange Adapter	1730785	9330001	1730785	9330001
3	Butterfly Valve	0992655	0992647	0992655	0992647
4	Stub Pipe w/Hitch	9361183	9361180	9362806	9362807
5	Tee Assembly	9362359	9362340	9362359	9362340
6	1/2" x 1-1/4" Cap Screw	0161027	0161027	0161027	0161027
7	1/2" x 3-1/2" Cap Screw	0161060	0161060	0161060	0161060
8	1/2" x 4" Cap Screw	0161020	0161020	0161020	0161020
9	1/2" Lock Nut	0133005	0133005	0133005	0133005
10	Boot Clamp	0994507	0994507	0994507	0994507
11	Boot	0994520	0994520	0994520	0994520

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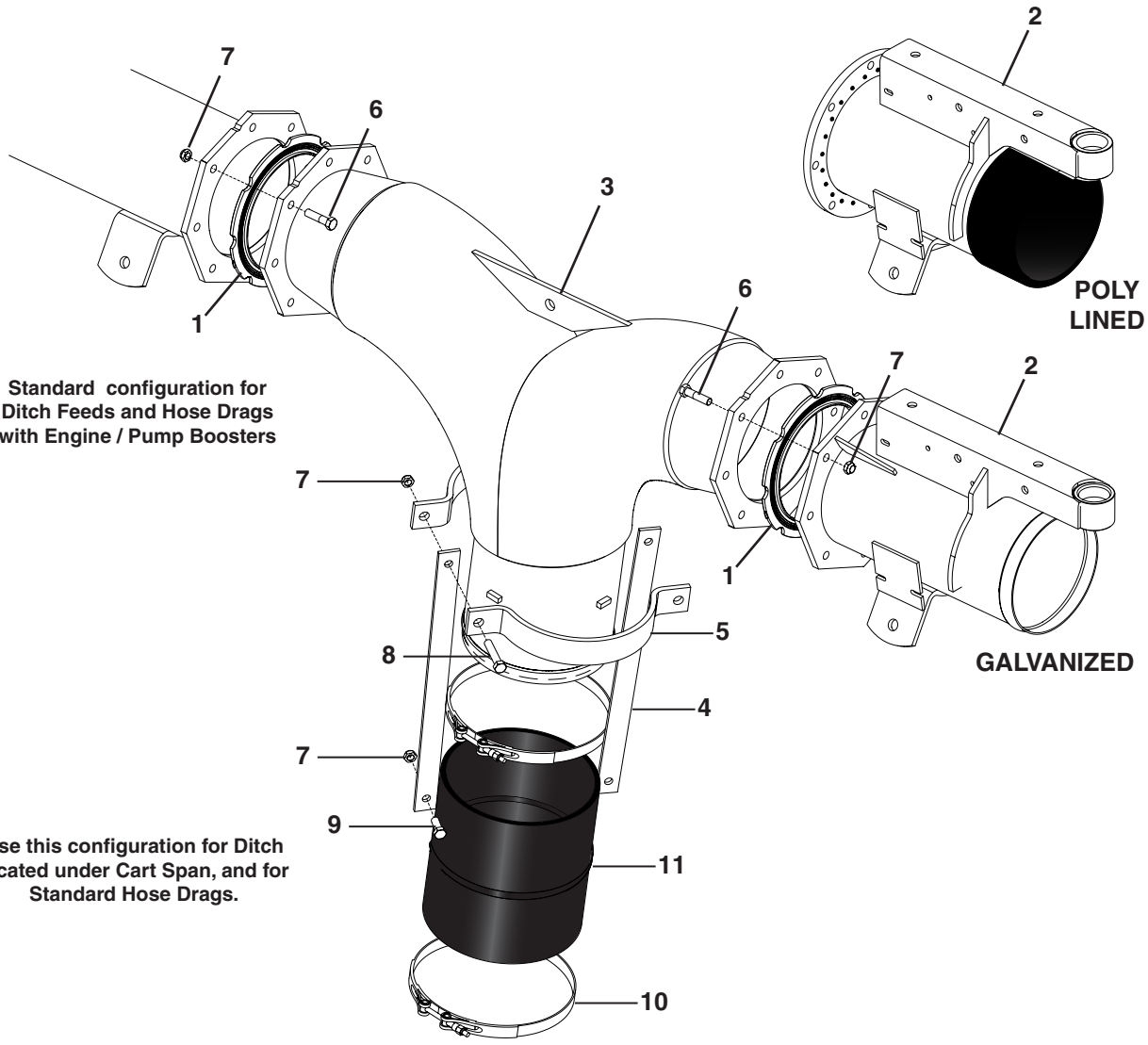
Pipe Diameter	Finish	Model 8000 Spacing 30"	60"	108"	Model 8120 Stub Pipes
6-5/8"	Galv.	9360024	N/A	9360016	9360676
	Poly	9362772	9362711	9362687	9362673
8-5/8"	Galv.	9360093	N/A	9360088	9360801
	Poly	9362780	9362745	9362735	9362737



Use this configuration for Ditch located under Cart Span, and for Standard Hose Drags.

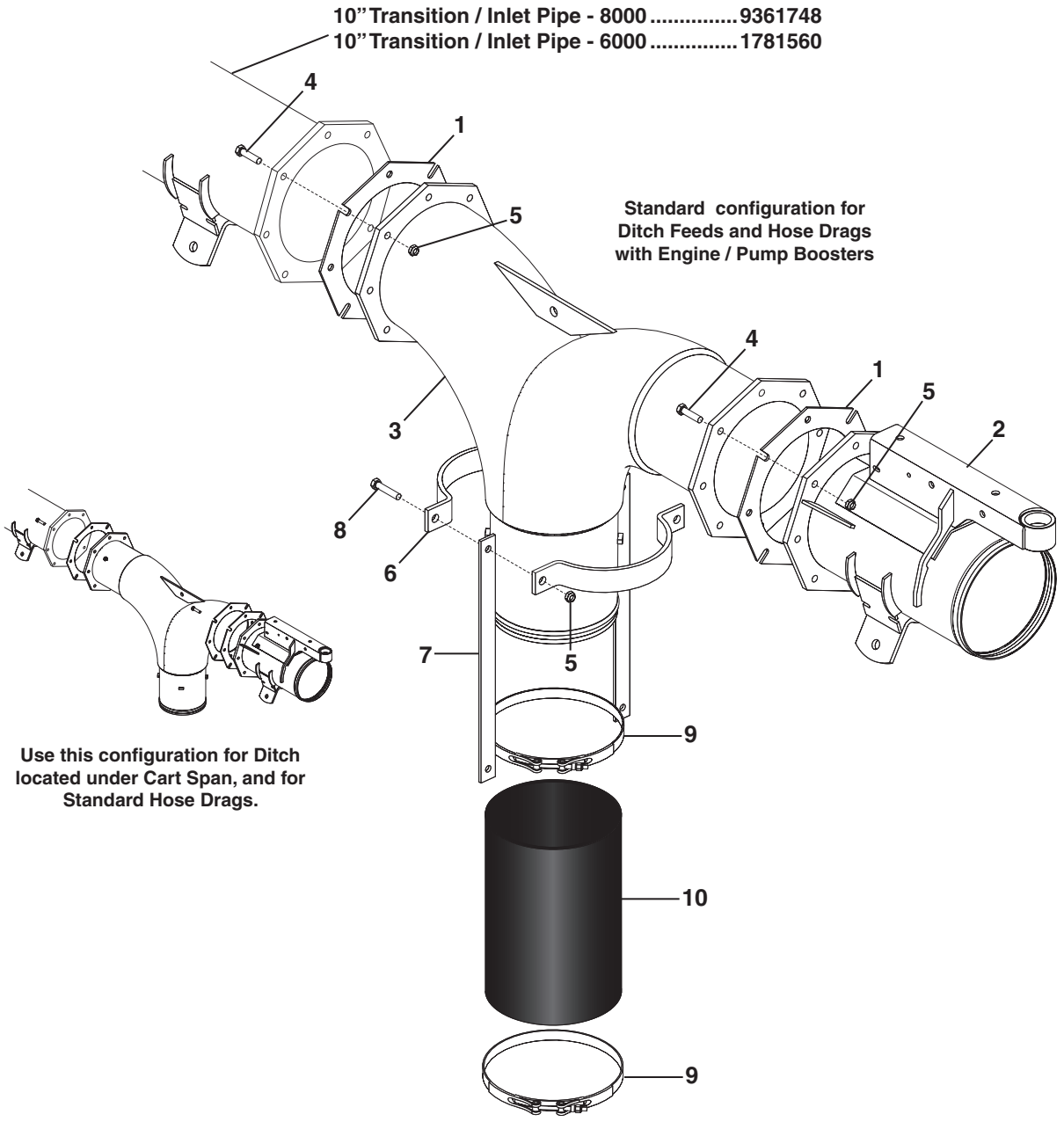
ITEM	DESCRIPTION	GALVANIZED 6-5/8" Pipe PART #	GALVANIZED 8-5/8" Pipe PART #	POLY MACHINE 6-5/8" Pipe PART #	POLY MACHINE 8-5/8" Pipe PART #
1	Flange Gasket	0991107	0994500	N/A	N/A
2	Flange Adapter	1730785	9330001	1730785	9330001
3	ANSI Gasket	1730788	1730786	N/A	N/A
4	Stub Pipe w/Hitch	9361182	9361184	9362808	9362809
5	Tee Assembly	9362359	9362340	9362359	9362340
6	1/2" x 1-1/4" Cap Screw	0161027	0161027	0161027	0161027
7	1/2" x 2" Cap Screw	0161024	0161024	0161024	0161024
8	1/2" Lock Nut	0133005	0133005	0133005	0133005
9	Boot Clamp	0994507	0994507	0994507	0994507
10	Boot	0994520	0994520	0994520	0994520

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ITEM	DESCRIPTION	GALVANIZED 8-5/8" Pipe PART #	POLY MACHINE 8-5/8" Pipe PART #
1	Flange Gasket	0994500	N/A
2	Stub Pipe w/Hitch	9364726	9362807
3	Tee Assembly	9364640	9364640
4	Strap	1702752	1702752
5	10" Half Clamp - 2-bolt	1702524	1702524
6	1/2" x 2" Cap Screw	0161024	0161024
7	1/2" Lock Nut	0133005	0133005
8	1/2" x 2-1/2" Cap Screw	0161023	0161023
9	1/2" x 1-1/4" Cap Screw	0161027	0161027
10	10" Boot Clamp	0992441	0992441
11	10" Boot	1702326	1702326

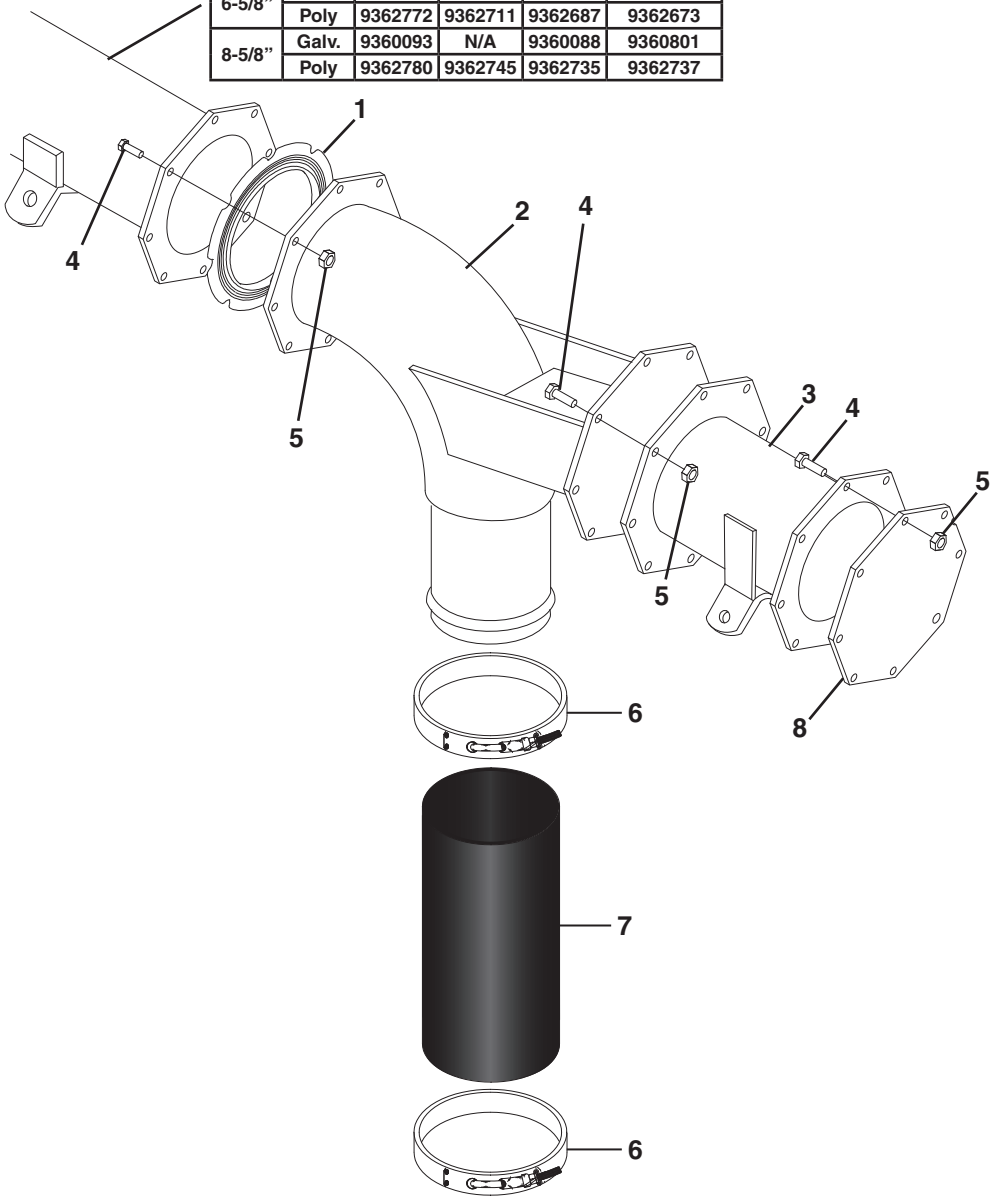
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ITEM	DESCRIPTION	PART #
1	10” Flat Rubber Gasket	0992385
2	10” Transition Pipe - 8000	9363482
	10” Transition Pipe - 6000	9363486
3	10” Tee - Extended	9363481
4	1/2” x 2” Cap Screw	0161024
5	1/2” Lock Nut	0133005
6	10” Half Clamp - 2-bolt	1702524
7	Strap	1702752
8	1/2" x 2-1/2” Cap Screw	0161023
9	10” Boot Clamp	0992441
10	10” Boot	1702326

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Pipe Dia.	Finish	Model 8000 Spacing 30"	Model 8000 Spacing 60"	Model 8000 Spacing 108"	Model 8120 Stub Pipes
6-5/8"	Galv.	9360024	N/A	9360016	9360676
	Poly	9362772	9362711	9362687	9362673
8-5/8"	Galv.	9360093	N/A	9360088	9360801
	Poly	9362780	9362745	9362735	9362737

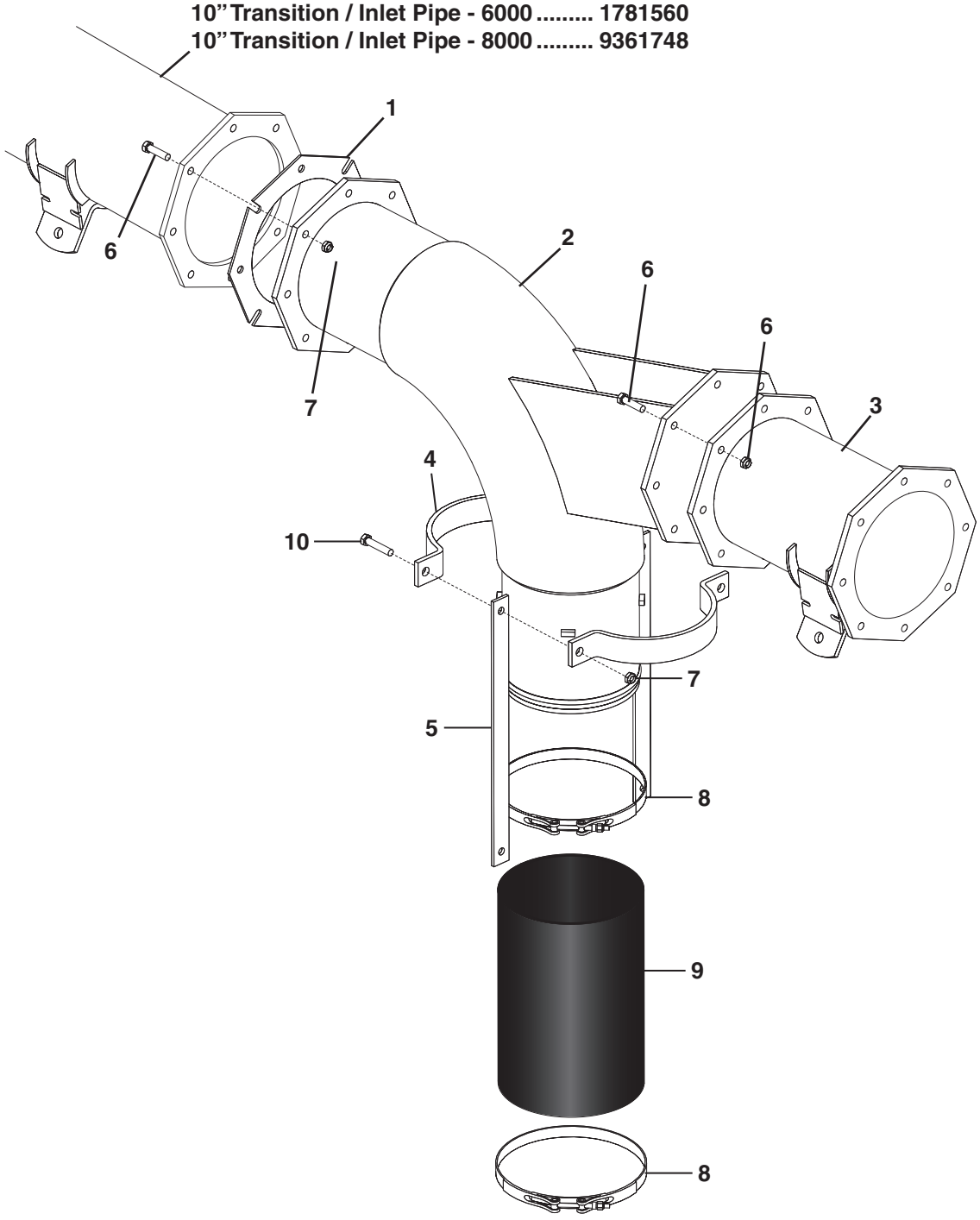


ITEM	DESCRIPTION	GALVANIZED 6-5/8" Pipe PART #	GALVANIZED 8-5/8" Pipe PART #	POLY MACHINE 6-5/8" Pipe PART #	POLY MACHINE 8-5/8" Pipe PART #
1	Flange Gasket	0991107	0994500	N/A	N/A
2	Elbow Assembly	9362323	9362332	9362323	9362332
	Elbow Assembly - Outboard	9364941	9364939	9364941	9364939
3	Stub Pipe	9362345	9362346	9362345	9362346
	Stub Pipe - Long	9364877	9364879	9364877	9364879
4	1/2" x 2" Cap Screw	0161024	0161024	0161024	0161024
5	1/2" Lock Nut	0133005	0133005	0133005	0133005
6	Boot Clamp	0994507	0994507	0994507	0994507
7	Boot	0994520	0994520	0994520	0994520
8	Flange, Blank	9330013	9330013	9330013	9330013

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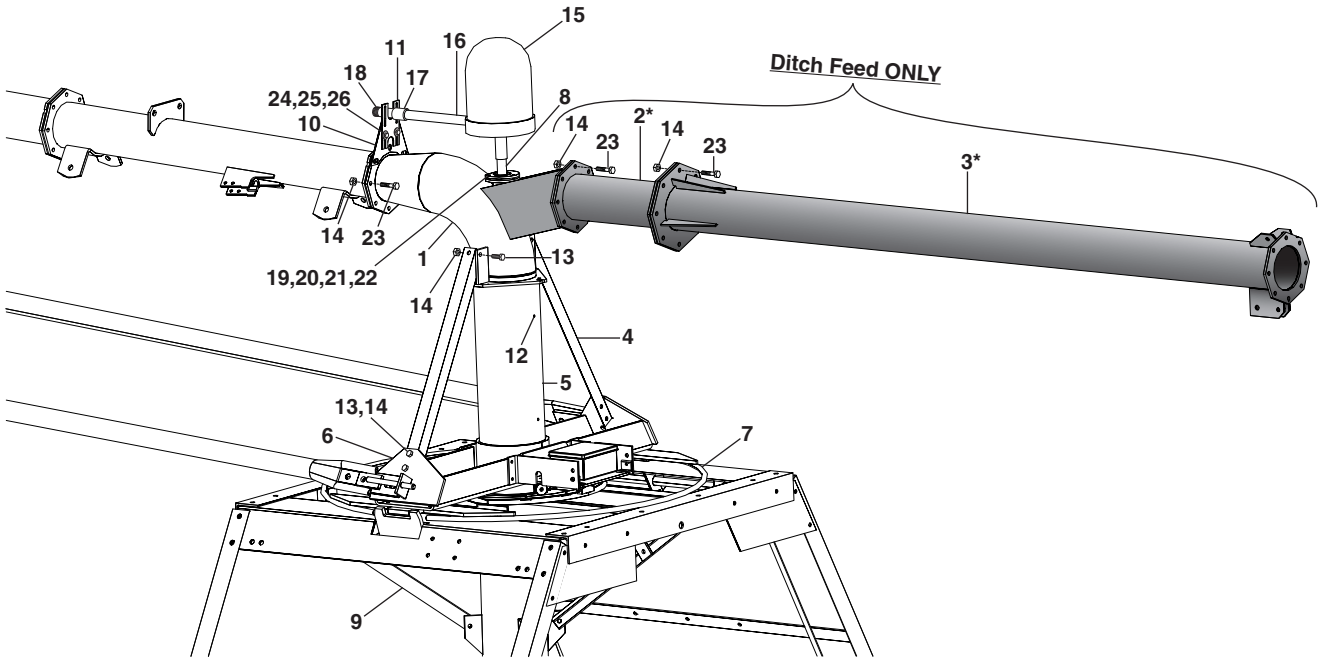
Functional Area	Assembly / Part	Rev# 01-19
Cart	10” End Feed Sweeping Discharge Elbow	

10” Transition / Inlet Pipe - 6000 1781560
10” Transition / Inlet Pipe - 8000 9361748



ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Flange Gasket	0992385	5	Riser Strap	1702752
2	Elbow Assembly	9362337	6	1/2" x 2" Cap Screw	0161024
	Elbow Assembly - Outboard	9364942	7	1/2" Lock Nut	0133005
3	Stub Pipe - 6000	9362347	8	10” Boot Clamp	0992386
	Stub Pipe - 8000	9363494		10” Boot Clamp w/Liner	0992441
	Stub Pipe - Outboard	9364934	9	10” Boot	1702326
4	10” Half Clamp	1702524	10	1/2” x 2-1/2” Cap Screw	0161023

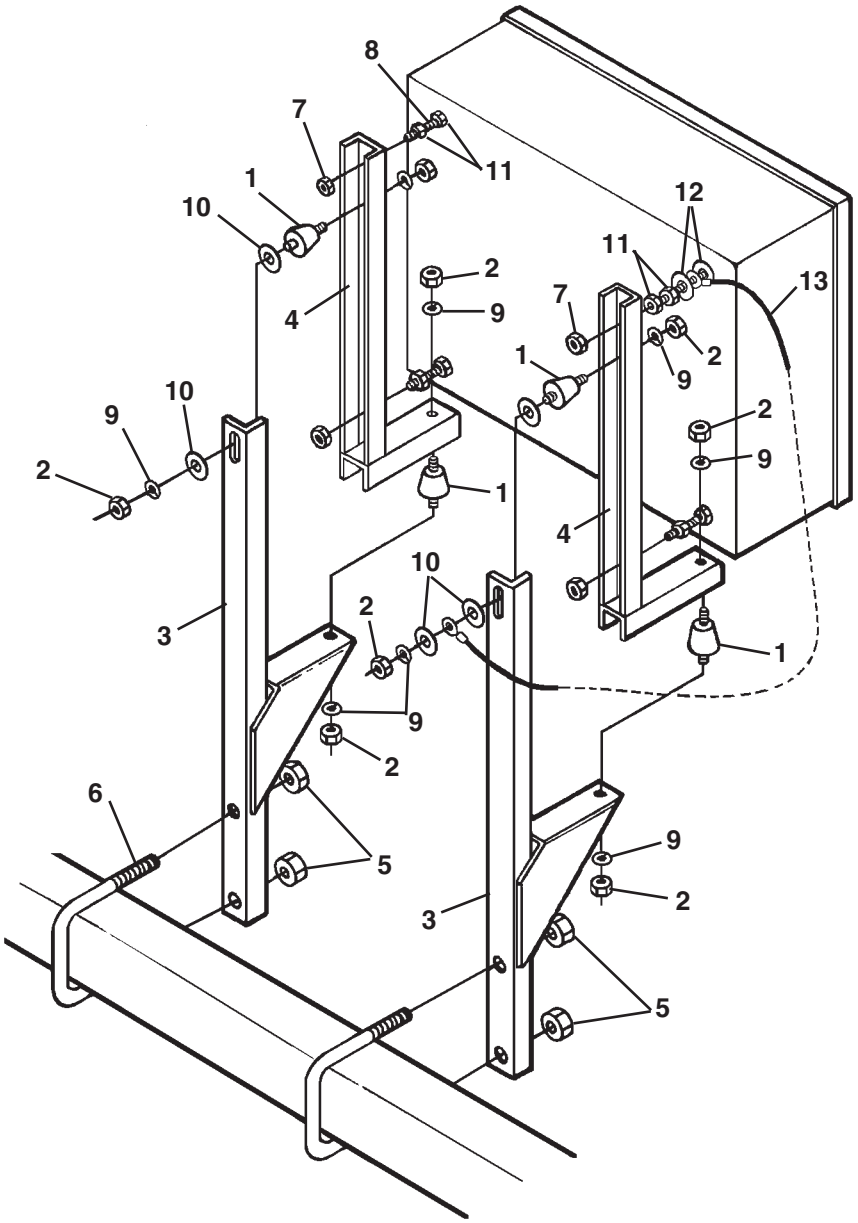
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ITEM	DESCRIPTION	PART #
1	6-5/8" Pivot Swivel (Hose Drag)	9363230
	8-5/8" Pivot Swivel (Hose Drag)	9363231
	6-5/8" Pivot Swivel (Ditch Feed)	9363364 *
	8-5/8" Pivot Swivel (Ditch Feed)	9363365 *
2	6-5/8" Overhang Lift Stub (Ditch Feed)	9363366 *
	8-5/8" Overhang Lift Stub (Ditch Feed)	9363367 *
3	9' Overhang Lift Pipe	9362386 *
	16' Overhang Lift Pipe	9362388 *
4	Yoke Brace Angle	9363211
5	Bearing Tube Assm.	9363228
6	Swivel Yoke Assm	9363229
7	Latch Hoop Half Assm.	9363375
8	Collector Ring Support w/o Eng/Pump	9363227
	Collector Ring Support w/ Eng/Pump	9363452
9	Riser Brace Angle	9363212
10	Conduit Guide Plate (6-5/8")	1702010
	Conduit Guide Plate (8-5/8")	1702429
11	Conduit Guide Extended (6-5/8" only)	1702009
12	3/8" Grease Zerk w/ Check Ball	0991051
13	1/2" x 1-1/4" Cap Screw	0161027
14	1/2" Lock Nut	0133005
15	Collector Ring - 14 Cond. 30 Amp	03E2062
16	1" x 12" Nipple	0211009
17	1" Mechanical Coupling (Galvanized)	0245003
18	1" NPT x 4" Nipple (Galvanized)	0211011
19	V-Packing	0254004
20	1.38" I.D. Receiver Flange	1781353
21	3/8" x 1-1/4" Cap Screw	0161153
22	3/8" Lock Nut	0133006
23	1/2" x 2" Cap Screw	0161024
24	5/16" x 1" Cap Screw	0161052
25	5/16" Flat Washer	0142017
26	5/16" Lock Nut	0133007

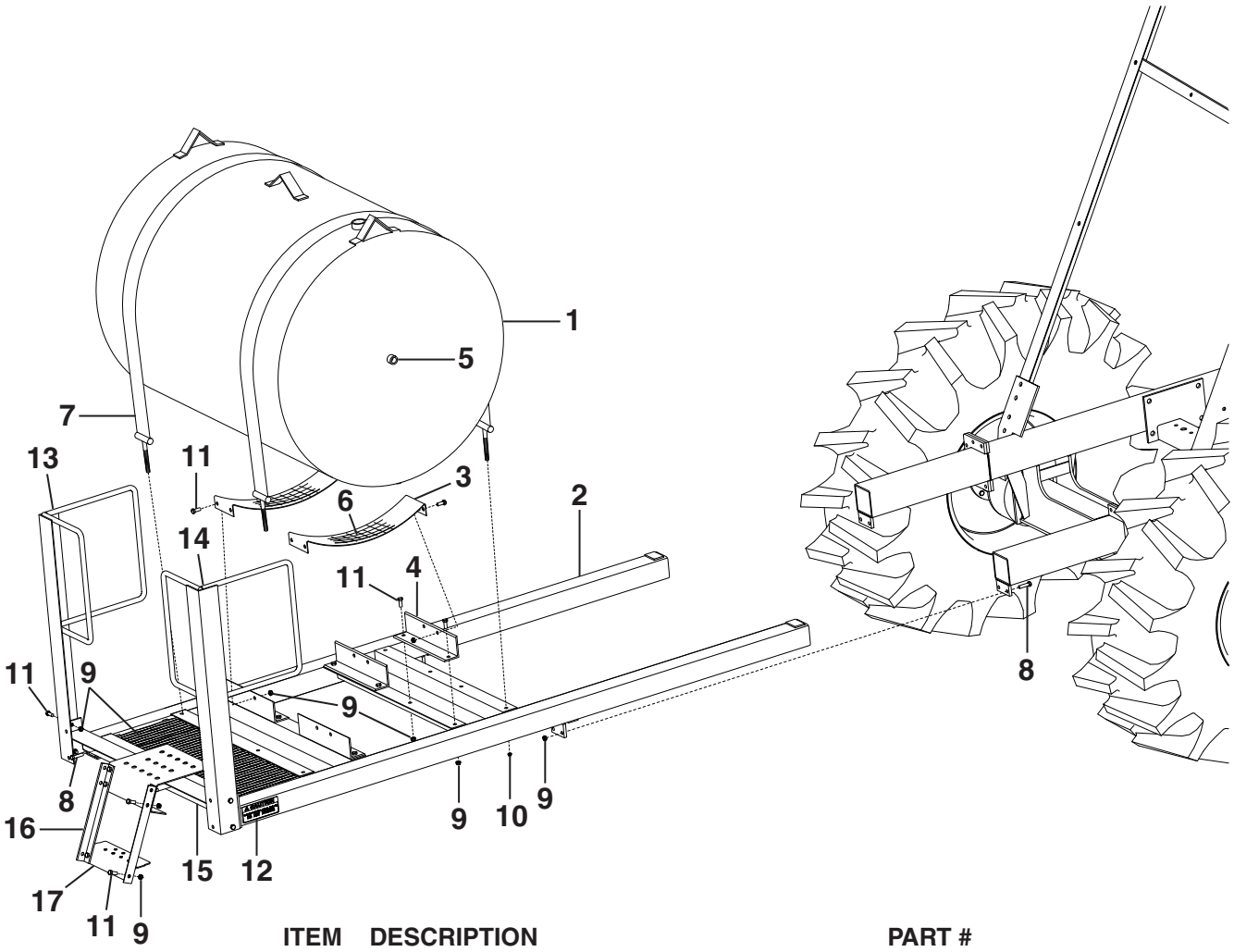
*** NOTE: For Ditch Feed Only.**

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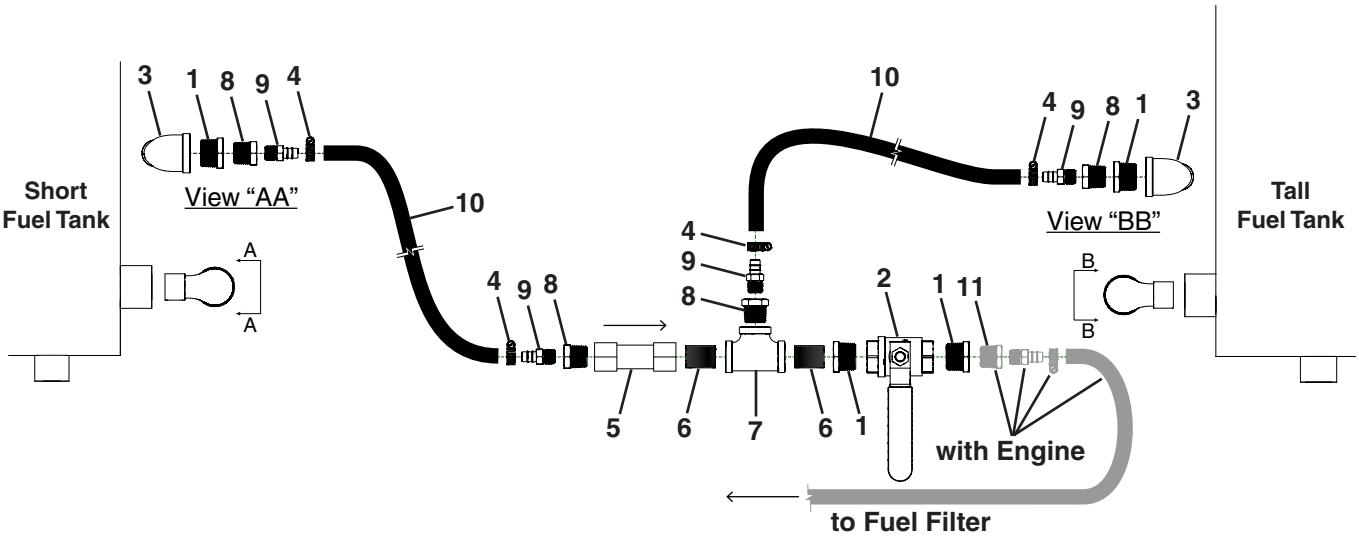
ITEM	DESCRIPTION	PART #
1	Rubber Mount	0992239
2	5/16" Hex Nut	0131019
3	Support Post Assembly	1730132
4	Control Panel Mount Assembly	1781675
5	3/4" Hex Nut	0131008
6	3/4" x 7" U-Bolt	0176048
7	3/8" Lock Nut	0133006
8	3/8"-16 x 2" Stainless Steel Thread Rod	0994523
9	5/16" Lock Washer	0141008
10	5/16" Flat Washer	0142017
11	3/8" Hex Nut	0131018
12	3/8" Flat Washer	0142031
13	Grounding Jumper	1811101

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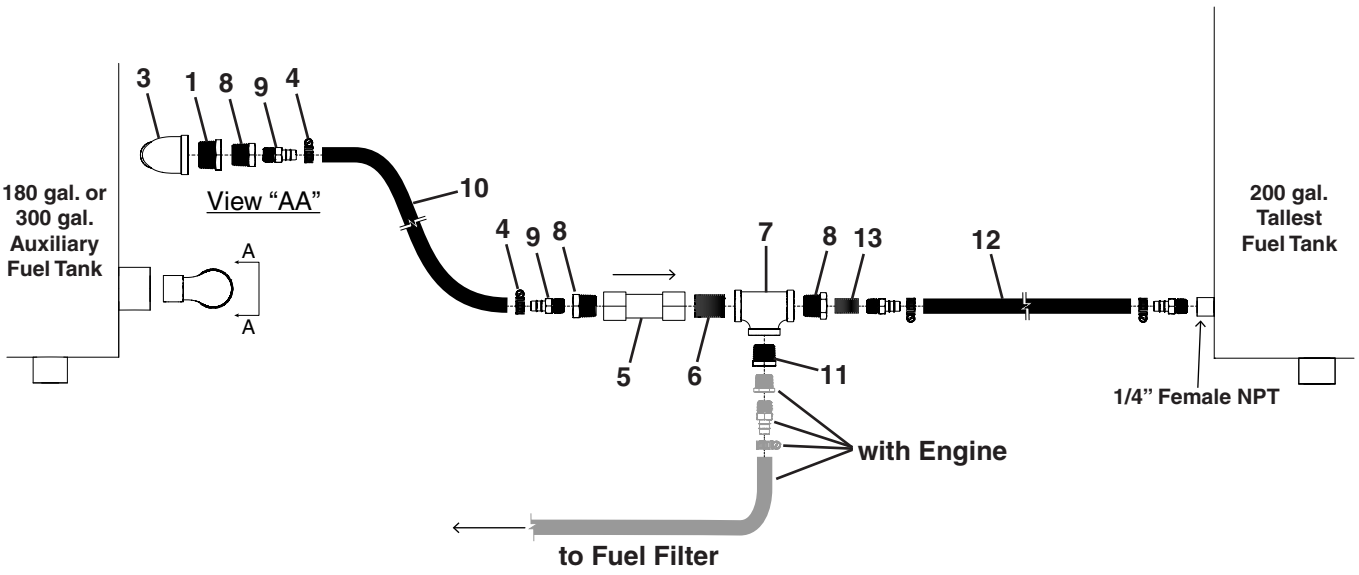
ITEM	DESCRIPTION	PART #
1	180 Gal. Tank	0997123
	300 Gal. Tank	0992217
2	Frame, Auxiliary Tank	9362283
3	Tank Saddle	9362515
4	Tank Mount Angle	9362516
5	Fuel Gauge, 180 Gal.	0997134
	Fuel Gauge, 300 Gal.	0992220
6	Belt, Tank Saddle	0996905
7	Tie Down Strap, 180 Gal.	9362623
	Tie Down Strap, 300 Gal.	9362456
8	1/2" x 2" Cap Screw	0161024
9	1/2" Lock Nut	0133005
10	3/8" Lock Nut	0133006
11	1/2" x 1-1/4" Cap Screw	0161027
12	Decal - CAUTION Platform Capacity	0997161
13	Platform Step Rail Assm. - Left	9363943
14	Platform Step Rail Assm. - Right	9363944
15	Platform Step Assm	9363939
16	Step Angle	9332027
17	Step	1781371

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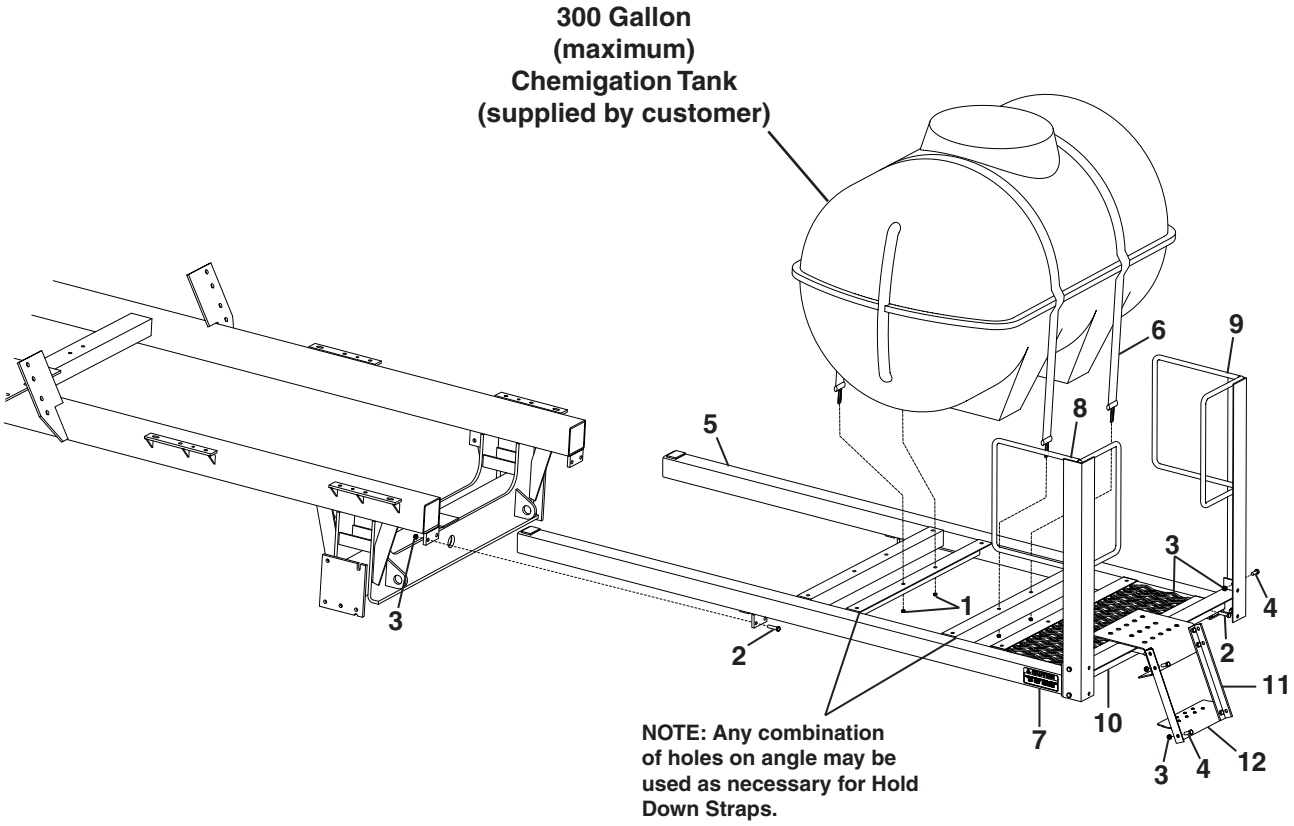
ITEM	DESCRIPTION	PART #
2	3/4" Ball Valve	0232045
3	3/4" x 90° Street Elbow	0241012
4	Hose Clamp	0272018
5	1/2" Check Valve - Bronze	0232569
6	1/2" x 1-1/8" Close Nipple	0211021
7	1/2" x 1/2" x 1/2" Tee	0242046
8	1/2" x 1/4" Reducer	0244016
9	1/4" NPT x 3/8" Hose Barb	0271054
10	Hose - 3/8" I.D. Fuel Line - Vinyl	0272020
11	1/2" x 3/8" Reducer	0244010

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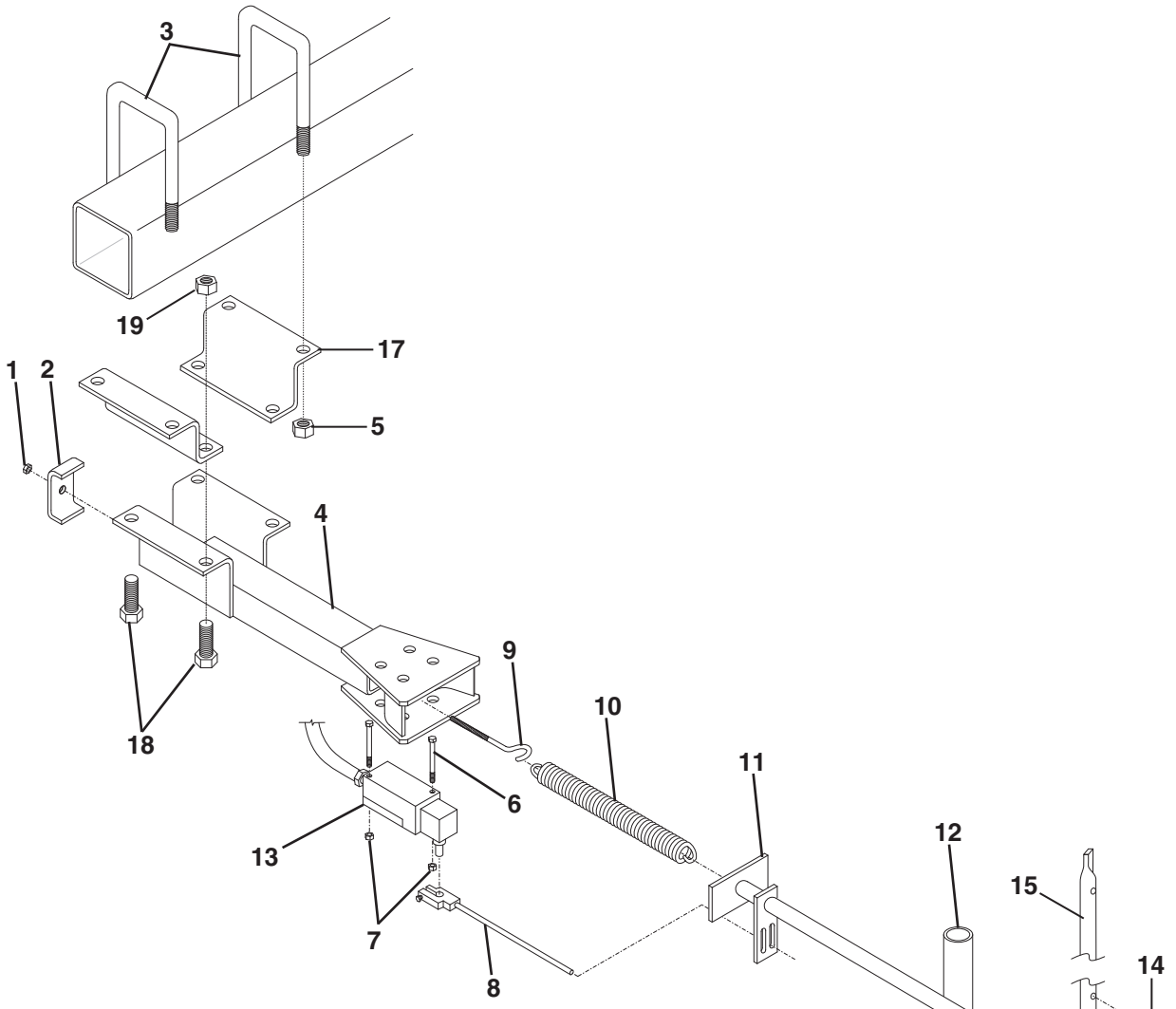
ITEM	DESCRIPTION	PART #
1	3/4" x 1/2" Reducing Bushing	0244029
2	3/4" Ball Valve	0232045
3	3/4" x 90° Street Elbow	0241012
4	Hose Clamp	0272018
5	1/2" Check Valve - Bronze	0232569
6	1/2" x 1-1/8" Close Nipple	0211021
7	1/2" x 1/2" x 1/2" Tee	0242046
8	1/2" x 1/4" Reducer	0244016
9	1/4" NPT x 3/8" Hose Barb	0271054
10	Hose - 3/8" I.D. Fuel Line - Vinyl	0272020
11	1/2" x 3/8" Reducer	0244010
12	Fuel Hose Assm. - 4' Long w/ Male & Female Ends	0996282
13	1/4" x 7/8" Close Nipple	0211036

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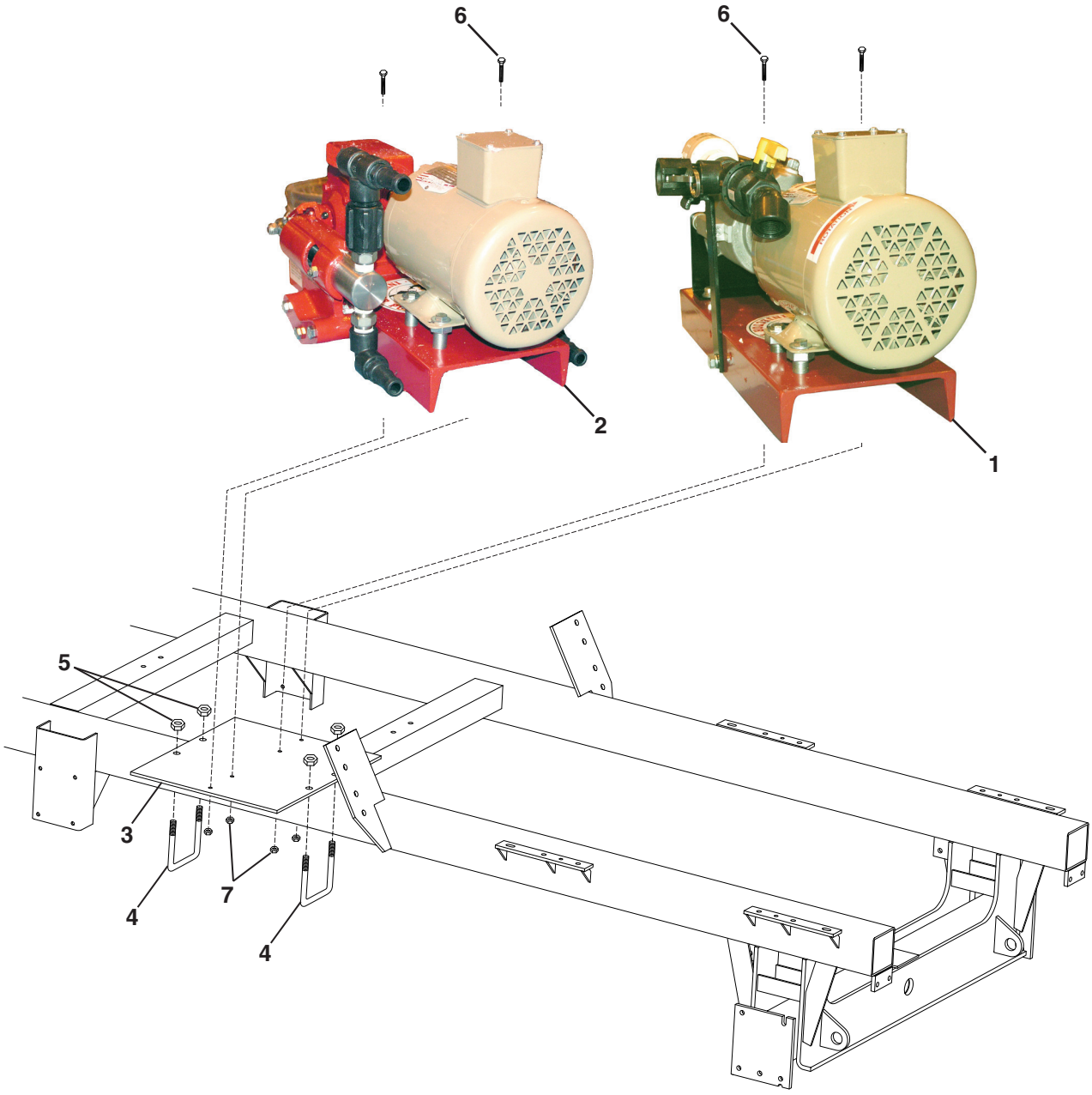
ITEM	DESCRIPTION	PART #
1	3/8” Lock Nut	0133006
2	1/2” x 2” Cap Screw	0161024
3	1/2” Lock Nut	0133005
4	1/2” x 1-1/4” Cap Screw	0161027
5	Chemigation Frame	9362283
6	Hold Down Straps	1731072
7	Decal - CAUTION Platform Capacity	0997161
8	Platform Step Rail Assm. - Left	9363943
9	Platform Step Reil Assm. - Right	9363944
10	Platform Step Assm	9363939
11	Step Angle	9332027
12	Step	1781371

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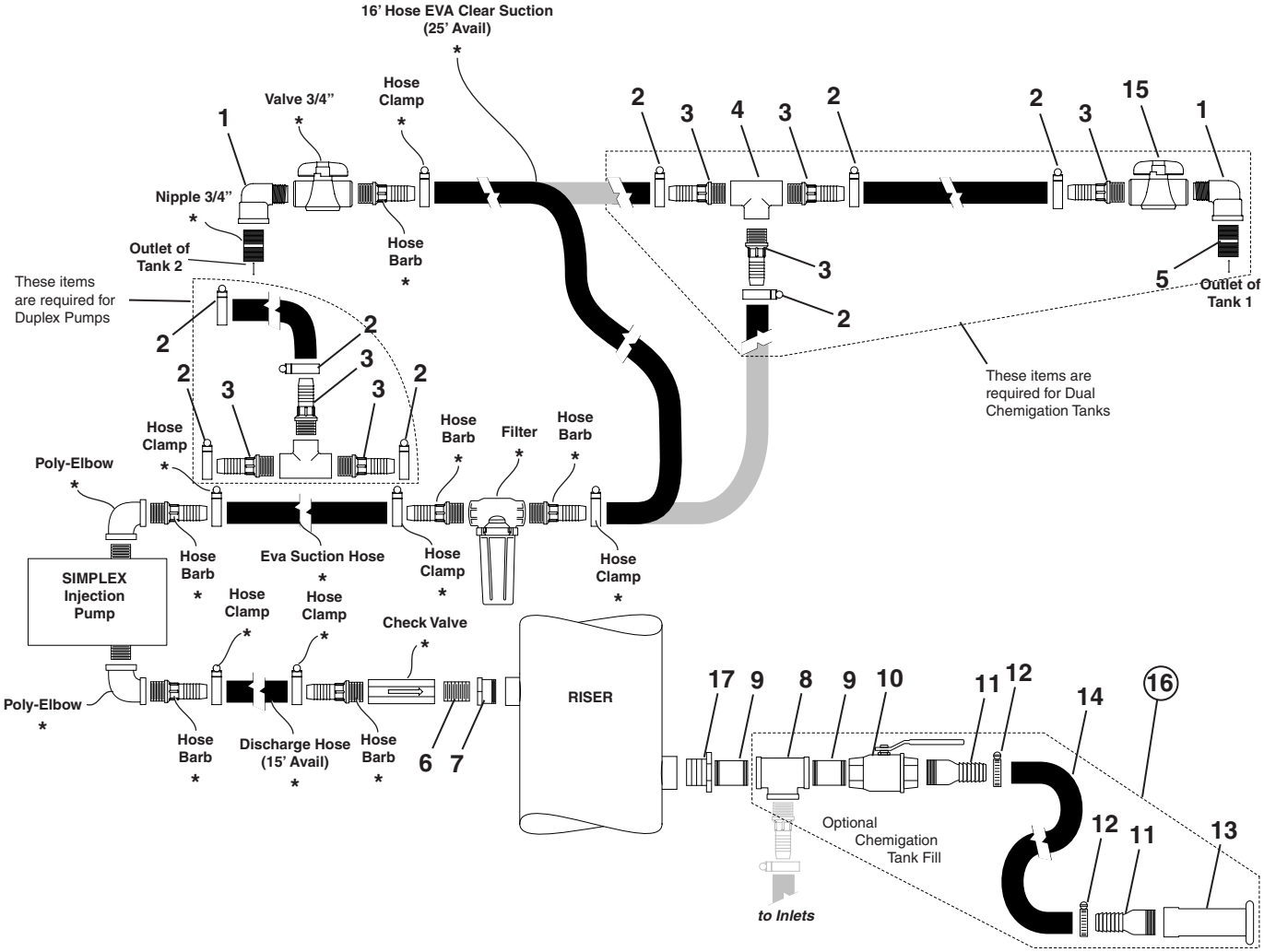
ITEM	DESCRIPTION	PART #
1	3/8" Hex Nut	0131018
2	End Plate	1731062
3	3/4" x 7" U-Bolt	0176048
4	Auto Linear Switch Mount	1731061
5	3/4" Hex Nut	0131008
6	#10 x 2-1/2" R.H.M.S	0164083
7	#10 Hex Nut	0131055
8	Micro Switch Arm Lever	0315623
9	3/8" x 8" Hook Bolt	0161366
10	Spring	0181007
11	Swivel Arm Assembly	1731055
12	End of Field Stop Post	1731069
13	Limit Switch Assm. (Stop Switch)	1811451
	Limit Switch (Auto-Reverse)	1812342
14	5/32” Hair Pin	0181034
15	Upper End of Hose Stop Post	1732192
16	Lower End of Hose Stop Post	1732193
17	Bracket Spacer	1731348
18	3/4” x 1-3/4” Cap Screw	0161139
19	3/4” Lock Nut	0133011

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ITEM	DESCRIPTION	PART #
1	Agitator - 1/3 HP 3 Phase	0996782
2	Pump - IOM 96B Simplex 1/3hp - 3 Phase w/Hose Kit	0996922
	Pump - IOM 96B Duplex 1/2hp - 3 Phase w/Hose Kit	0996923
3	Chemigation Mount Plate	9362140
4	3/4” x 7” 10UNC U-Bolt	0176048
5	3/4” 10UNC Hex Nut	0131008
6	3/8” x 3” 16UNC Cap Screw	0161037
7	3/8” Lock Nut	0133006

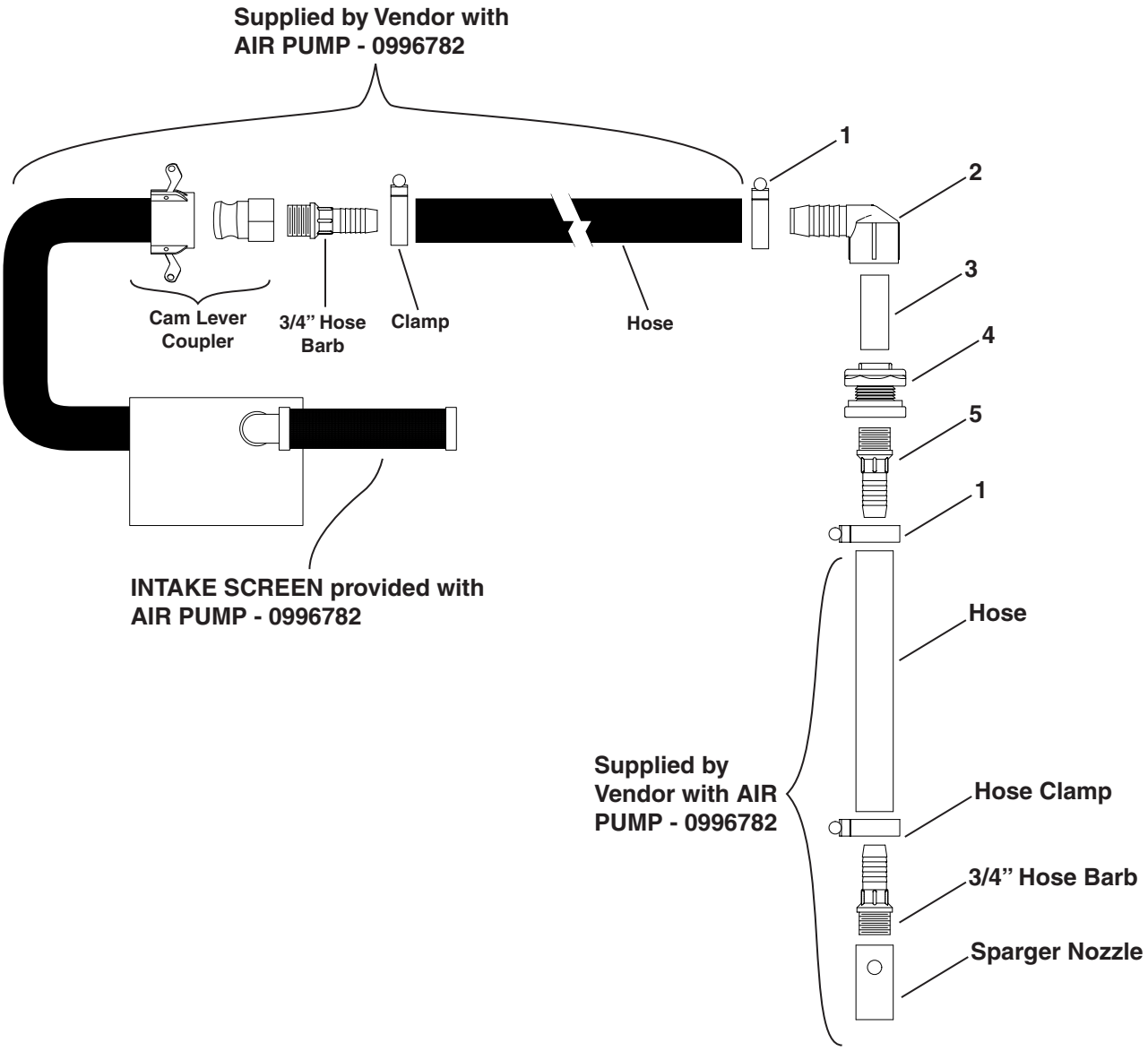
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ITEM	DESCRIPTION	PART #
1	3/4" 90° Street Elbow	0241075
2	Hose Clamp	0271001
3	3/4" Hose Barb	0271077
4	3/4" Tee	0242053
5	3/4" Nipple - Poly	0211157
6	3/4" x 1-3/8" Nipple	0211015
7	1" x 3/4" Reducer Bushing	0244038
8	1-1/2" Tee	0242047
9	1-1/2" x 1-3/4" Pipe Nipple	0211078
10	1-1/2" Ball Valve	0995490
11	1-1/2" Hose Insert	0271026
12	Hose Clamp	0271013
13	1-1/2" FPT Adaptable Hose Nozzle	0996994
14	1-1/2" Contractor Hose - 30'	0272008
15	3/4" PVC Valve	0232481
16	Tank Fill Kit	KA09664
17	2" x 1-1/2" Reducer	0244030

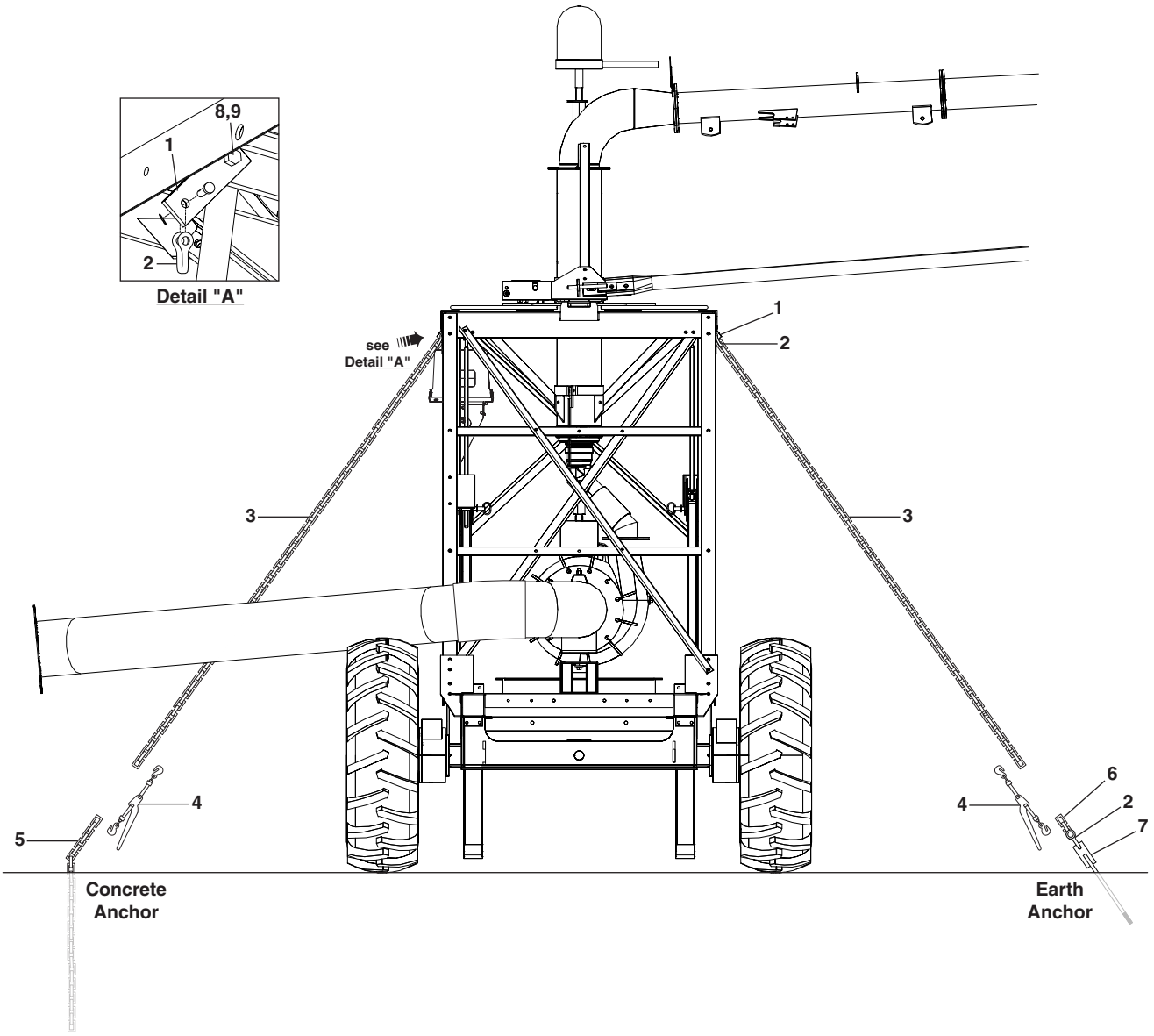
*** NOTE: Parts included with Injection Pump**

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ITEM	DESCRIPTION	PART #
1	1-1/4 Hose Clamp	0271084
2	3/4" x 3/4" Hose Inlet Elbow	0271104
3	3/4" x 2" PVC Nipple	0211103
4	Poly Tank Fitting	0246225
5	3/4" Hose Barb	0271077

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ITEM	DESCRIPTION	PART #
1	Attaching Bracket Plate	1732700
2	3/8" Clevis	0992947
3	Binding Chain - High Test - 129" [1,799m] Lg.	0323066
4	Load Binder - Standard	0323050
5	Binding Chain - 25" [3,386m] Lg.	0323060
6	Chain - 3 Links	0323061
7	Earth Anchor Rod	1781471
8	1/2" x 1-1/4" Cap Screw	0161027
9	1/2" Lock Nut	0133005

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HOSE DRAG

Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
HOSE DRAG		
Blank Page	05-08	2-3
Center Inlet Cart Pipes & Riser - PRIOR TO June 11	06-11	2-4
Center Inlet Cart Pipes & Riser - EFF. June 11	06-11	2-5
Swing-Around Center Inlet Cart Pipes & Riser - PRIOR TO June 11	06-11	2-6
Swing-Around Center Inlet Cart Pipes & Riser - EFF. Jun 11 to Dec 18	01-19	2-7
Swing-Around Center Inlet Cart Pipes & Riser - EFF. Jan 19	01-19	2-8
Blank Page	01-19	2-9
Side Inlet Cart Pipes & Riser	05-15	2-10
Swing-Around Side Inlet Cart Pipes & Riser - NOT CURRENTLY AVAIL.	05-15	2-11
Booster Pump Cart Pipes	01-19	2-12
Booster Pump Cart Pipes	01-19	2-13
4-3/4” & 6” Hose Inlets	03-10	2-14
End Cap & Flapper	06-06	2-15
8” Hose Inlet	06-06	2-16
Blank Page	01-19	2-17
Soft Hose Inlets - PRIOR TO Jan 10	02-19	2-18
Soft Hose Inlets - EFFECTIVE Jan 10	02-19	2-19
Hard Hose Inlets - PRIOR TO Jan 10	02-19	2-20
Hard Hose Inlets - EFFECTIVE. Jan 10	02-19	2-21
4-3/4” & 6” Poly Pipe Connector	02-19	2-22
4" Poly-Hose End	06-06	2-23
6” SDR 11 & 8” Poly End	09-18	2-24
OPTIONS		
Shut-Off Valve	06-06	2-25
Traction Weights	08-16	2-26
Hose Bumpers	02-17	2-27
6”, 4-3/4” & 8” Soft Hose Riser Connection	06-16	2-28
Seametrics Flow Meter w/Output Cable	07-15	2-29

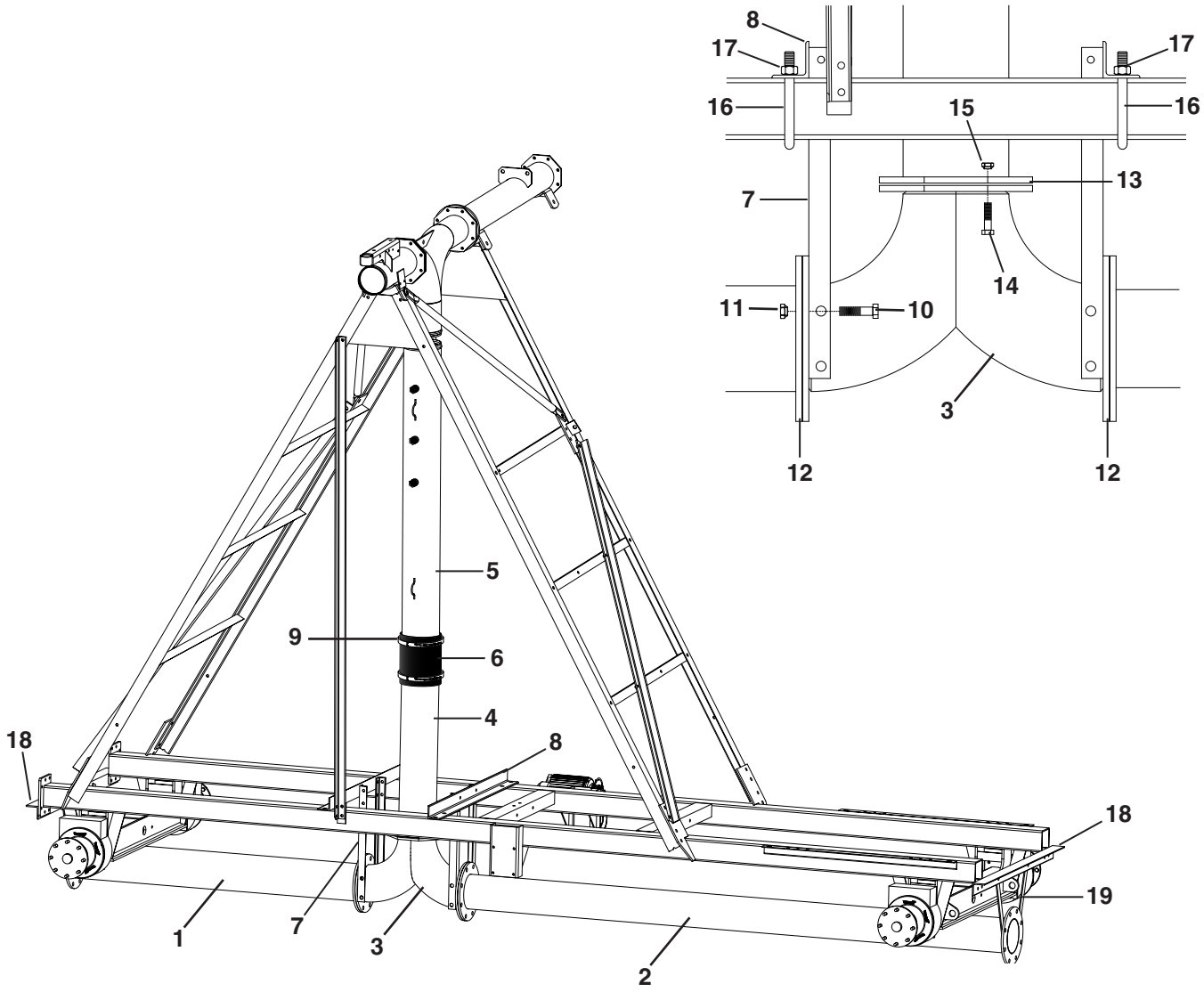
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PRIOR TO
June 2011

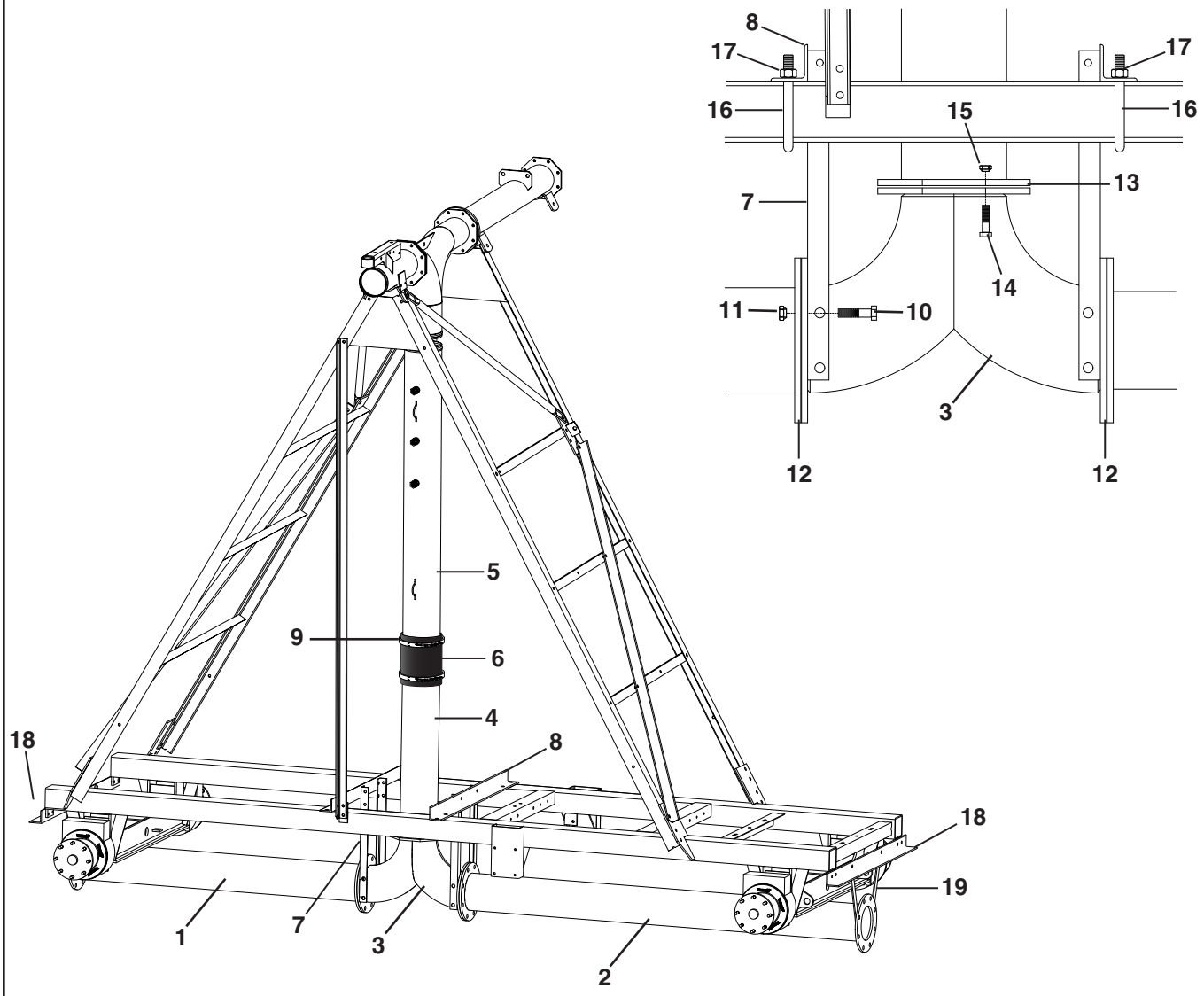


ITEM	DESCRIPTION	PART #
1	Spool Assm. - 70.84" [1,799m]	9362546
2	Spool Assm. - 133.30" [3,386m]	9362124
3	Inlet "Y" Assm.	9362550
4	Stub - 8-5/8" x 39"	9362555
5	Riser Pipe - 8-5/8"	9362540
	Riser Pipe - 8-5/8" - Stainless St	9362799
	Riser Pipe - 10"	9362611
6	Boot - 8-5/8"	0994520
7	Pipe Hanger Angle	9362549
8	Cross Angle	9362551
9	Boot Clamp - 8-5/8"	0994507

ITEM	DESCRIPTION	PART #
10	3/4" x 2-1/4" Cap Screw	0161157
11	3/4" Lock Nut	0133011
12	8" ANSI Gasket	0996640
13	8" Valmont ANSI Gasket	1730786
14	1/2" x 2" Cap Screw	0161024
15	1/2" Lock Nut	0133005
16	3/4" x 7" U-Bolt	0176048
17	3/4" Hex Nut	0131008
18	Cart End Angle	9362547
19	Pipe Hanger Strap	9362543

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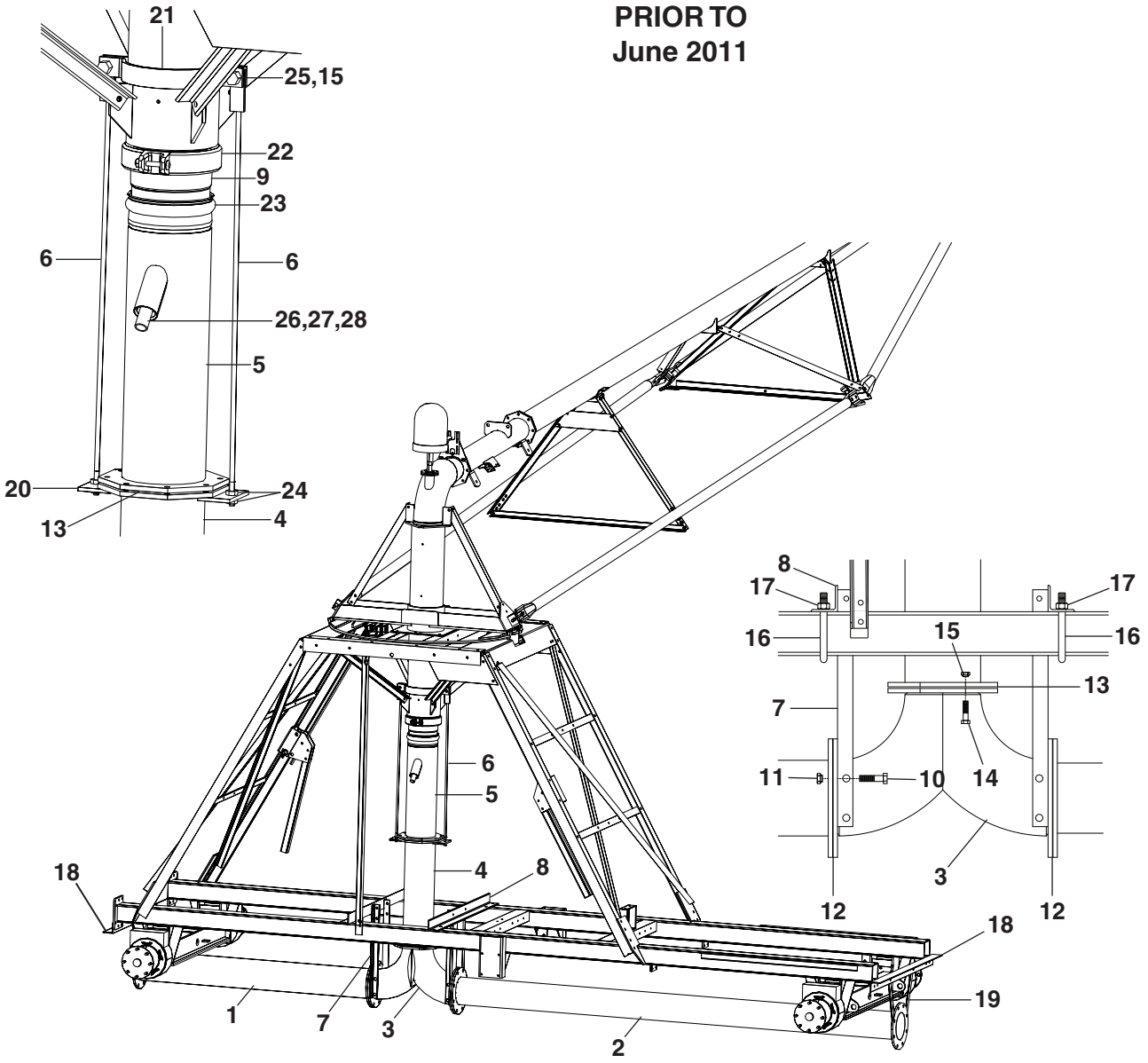
EFFECTIVE
June 2011



ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Spool Assm. - 70.84" [1,80m]	9362546	10	3/4" x 2-1/4" Cap Screw	0161157
2	Spool Assm. - 97.69" [2.48m]	9363911	11	3/4" Lock Nut	0133011
3	Inlet "Y" Assm.	9362550	12	8" ANSI Gasket	0996640
4	Stub - 8-5/8" x 39"	9362555	13	8" Valmont ANSI Gasket	1730786
5	Riser Pipe - 8-5/8"	9362540	14	1/2" x 2" Cap Screw	0161024
	Riser Pipe - 8-5/8" - Stainless St	9362799	15	1/2" Lock Nut	0133005
	Riser Pipe - 10"	9362611	16	3/4" x 7" U-Bolt	0176048
6	Boot - 8-5/8"	0994520	17	3/4" Hex Nut	0131008
7	Pipe Hanger Angle	9362549	18	Cart End Angle	9362547
8	Cross Angle	9362551	19	Pipe Hanger Strap	9362543
9	Boot Clamp - 8-5/8"	0994507			

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**PRIOR TO
June 2011**

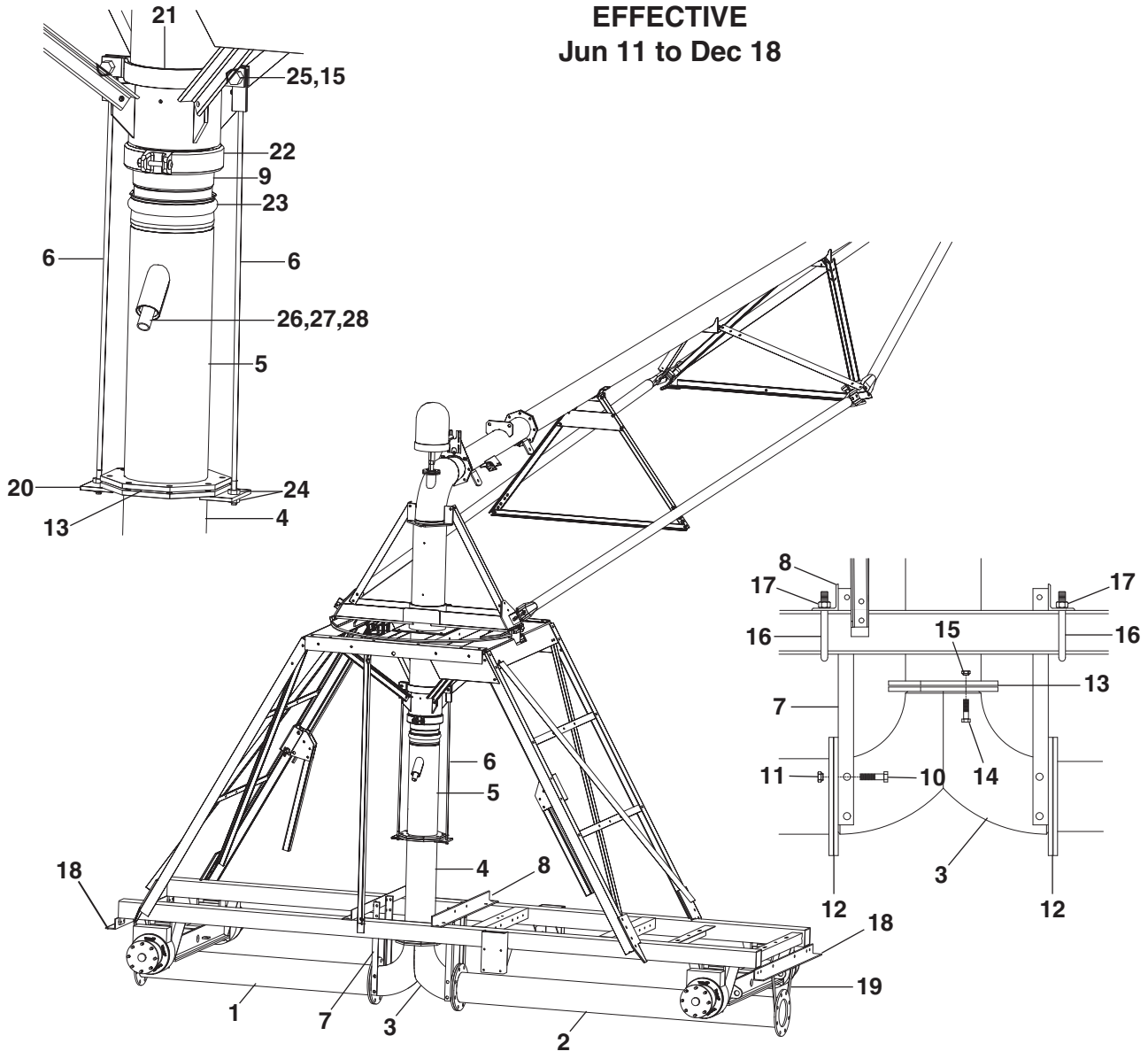


ITEM	DESCRIPTION	PART #
1	Spool Assm. - 70.84" [1,80m]	9362546
2	Spool Assm. - 133.30" [3,38m]	9362124
3	Inlet "Y" Assm.	9362550
4	Stub Pipe - 30.50" [0.77m]	9363245
5	Discharge Swivel	9363241
6	Support Rod	9363239
7	Pipe Hanger Angle - 27.00" [0.68m]	9362549
8	Cross Angle	9362551
9	8" Pivot Swivel - Stainless Steel	9361575
	8" Pivot Swivel - Xenoy	9363151
10	3/4" x 2-1/4" Cap Screw	0161157
11	3/4" Lock Nut	0133011
12	8" ANSI Gasket	0996640
13	8" Valmont ANSI Gasket	1730786
14	1/2" x 2" Cap Screw	0161024

ITEM	DESCRIPTION	PART #
15	1/2" Lock Nut	0133005
16	3/4" x 7" U-Bolt	0176048
17	3/4" Hex Nut	0131008
18	Cart End Angle	9362547
19	Pipe Hanger Strap - 15.56" [0.39m]	9362543
20	Rod Ear	9363222
21	10" Half Clamp	1702524
22	Gruvlok Clamp	0245073
23	8" Triple Lip Seal	0221001
24	1/2" Hex Nut	0131015
25	1/2" x 2-1/2" Cap Screw	0161023
26	V-Packing	0254004
27	1" Coupling	0245061
28	Spacer	1781640

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EFFECTIVE
Jun 11 to Dec 18

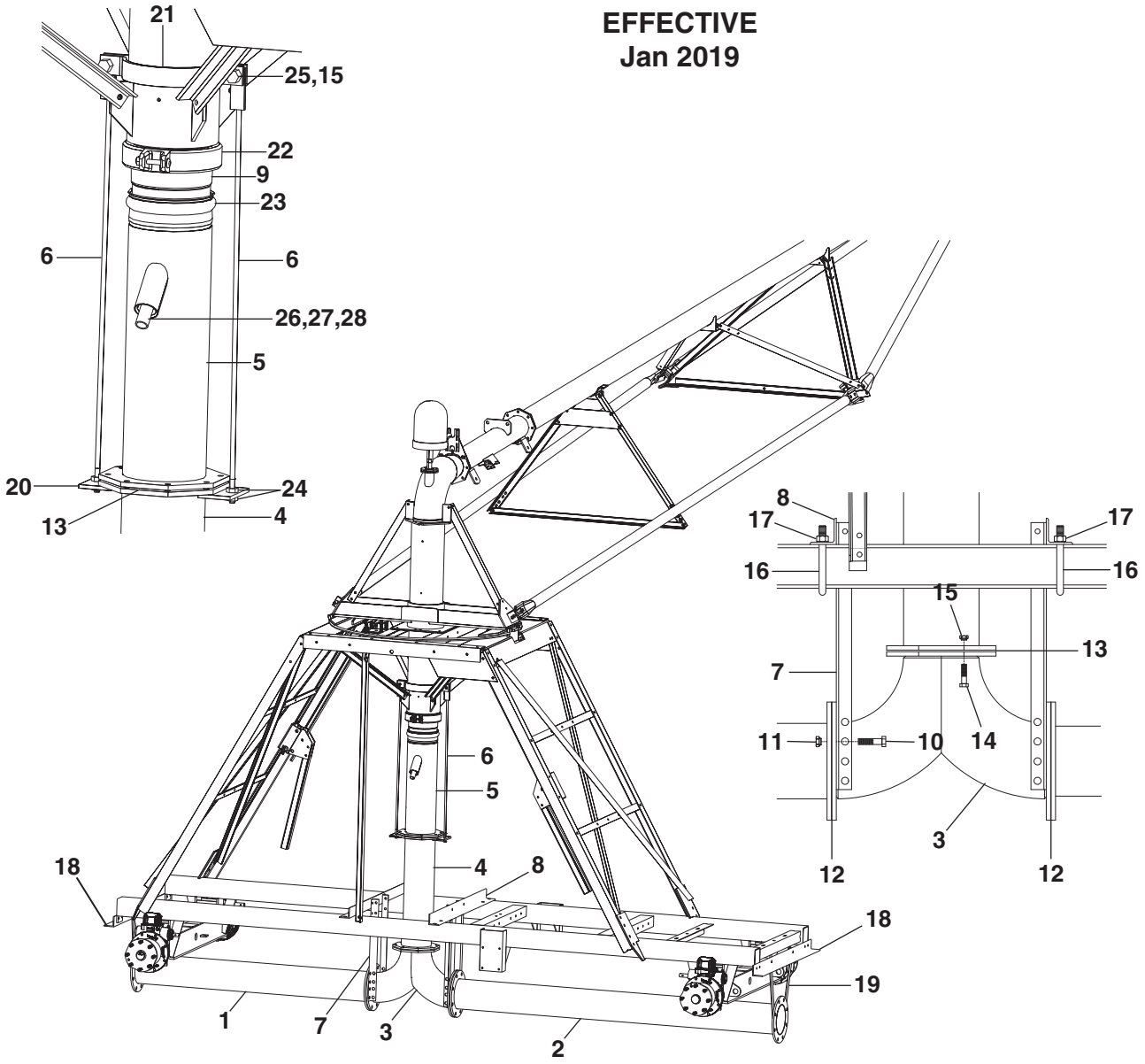


ITEM	DESCRIPTION	PART #
1	Spool Assm. - 70.84" [1,80m]	9362546
2	Spool Assm. - 97.69" [2.48m]	9363911
3	Inlet "Y" Assm.	9362550
4	Stub Pipe - 30.50" [0.77m]	9363245
5	Discharge Swivel	9363241
6	Support Rod	9363239
7	Pipe Hanger Angle - 27.00" [0.68m]	9362549
8	Cross Angle	9362551
9	8" Pivot Swivel - Stainless Steel	9361575
	8" Pivot Swivel - Xenoy	9363151
10	3/4" x 2-1/4" Cap Screw	0161157
11	3/4" Lock Nut	0133011
12	8" ANSI Gasket	0996640
13	8" Valmont ANSI Gasket	1730786
14	1/2" x 2" Cap Screw	0161024

ITEM	DESCRIPTION	PART #
15	1/2" Lock Nut	0133005
16	3/4" x 7" U-Bolt	0176048
17	3/4" Hex Nut	0131008
18	Cart End Angle	9362547
19	Pipe Hanger Strap - 15.56" [0.39m]	9362543
20	Rod Ear	9363222
21	10" Half Clamp	1702524
22	Gruvlok Clamp	0245073
23	8" Triple Lip Seal	0221001
24	1/2" Hex Nut	0131015
25	1/2" x 2-1/2" Cap Screw	0161023
26	V-Packing	0254004
27	1" Coupling	0245061
28	Spacer	1781640

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EFFECTIVE
Jan 2019



ITEM	DESCRIPTION	PART #
1	Spool Assm. - 70.84" [1,80m]	9362546
2	Spool Assm. - 97.69" [2.48m]	9363911
3	Inlet "Y" Assm.	9362550
4	Stub Pipe - 33.00" [0.83m]	9363245
5	Discharge Swivel	9363241
6	Support Rod	9363239
7	Pipe Hanger Angle - 29.50" [0.74m]	9362549
8	Cross Angle	9362551
9	8" Pivot Swivel - Stainless Steel	9361575
	8" Pivot Swivel - Xenoy	9363151
10	3/4" x 2-1/4" Cap Screw	0161157
11	3/4" Lock Nut	0133011
12	8" ANSI Gasket	0996640
13	8" Valmont ANSI Gasket	1730786
14	1/2" x 2" Cap Screw	0161024

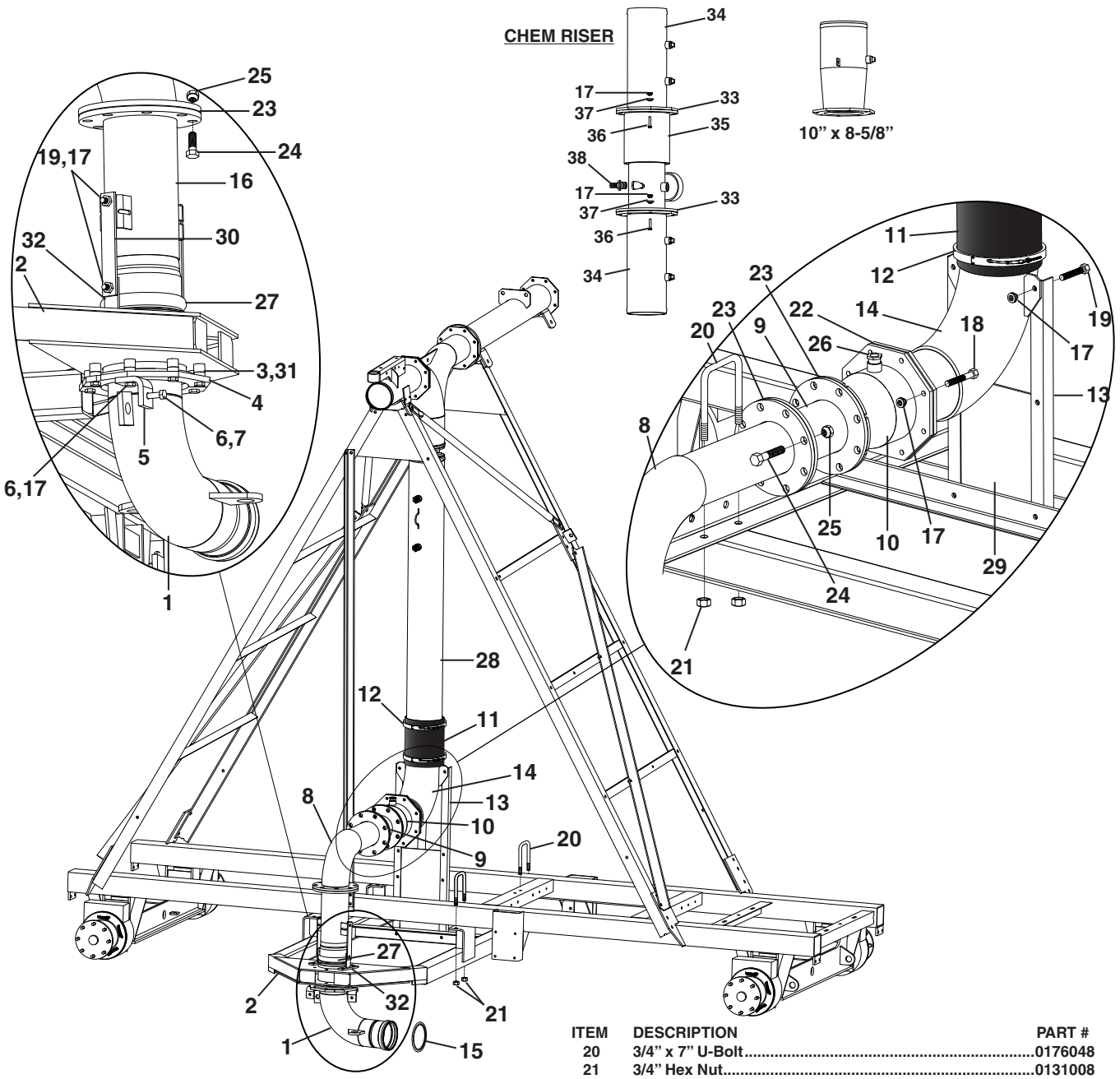
ITEM	DESCRIPTION	PART #
15	1/2" Lock Nut	0133005
16	3/4" x 7" U-Bolt	0176048
17	3/4" Hex Nut	0131008
18	Cart End Angle	9362547
19	Pipe Hanger Strap - 18.41" [0.46m]	9362543
20	Rod Ear	9363222
21	10" Half Clamp	1702524
22	Gruvlok Clamp	0245073
23	8" Triple Lip Seal	0221001
24	1/2" Hex Nut	0131015
25	1/2" x 2-1/2" Cap Screw	0161023
26	V-Packing	0254004
27	1" Coupling	0245061
28	Spacer	1781640

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Functional Area	Assembly / Part	Rev# 05-15
Hose Drag	Side Inlet Cart Pipes & Riser	

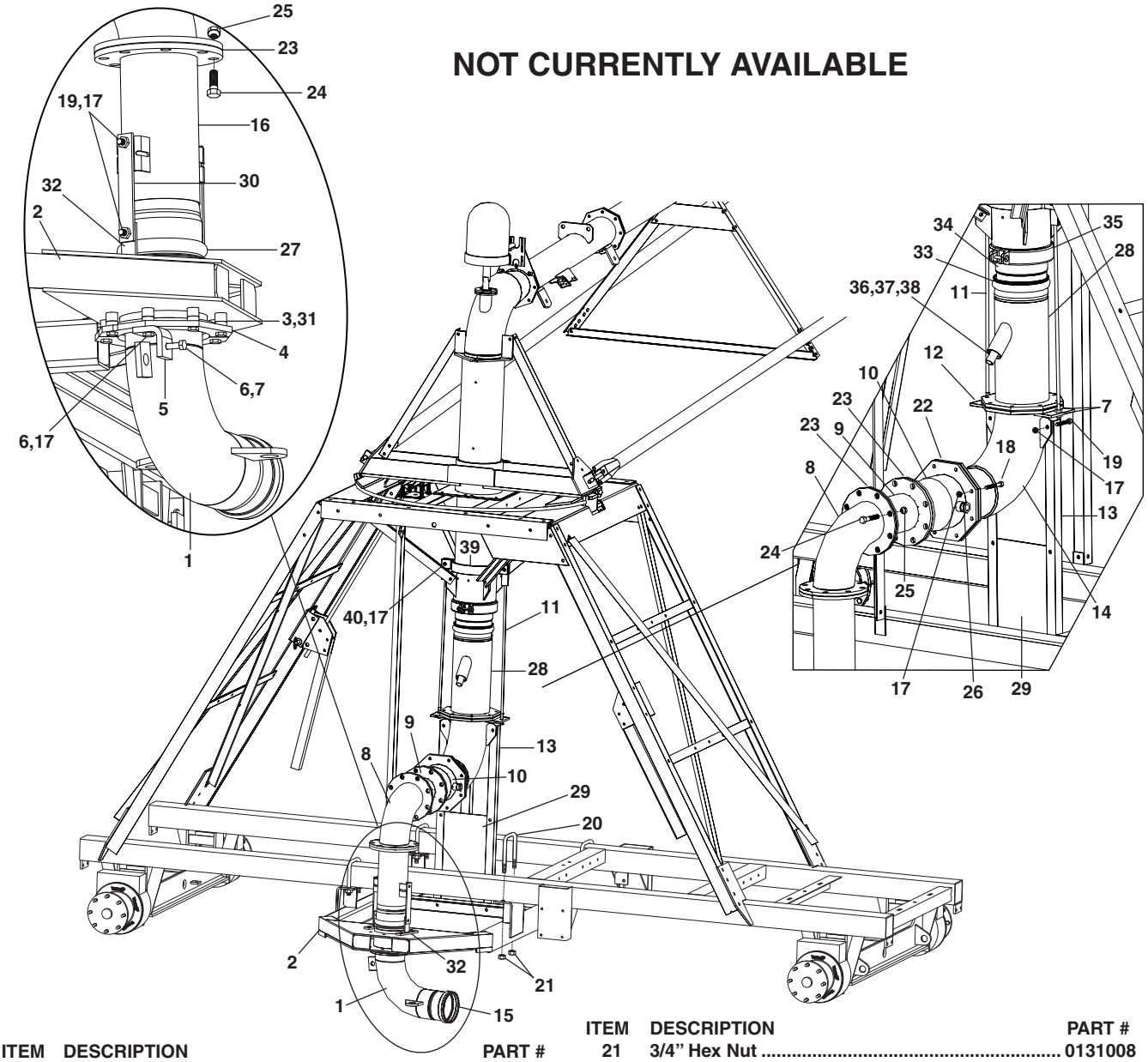


ITEM	DESCRIPTION	PART #
1	Swivel Inlet Elbow	9362602
2	Swivel Inlet Frame	9362599
3	9/16" x 5/8" Swivel Bushing	0192074
4	Half Flange	9362610
5	Swivel Stop Bracket	9362604
6	1/2" x 3" Cap Screw	0161381
7	1/2" Hex Nut	0131015
8	6" Elbow	9362590
9	6" x 9.28" Spool w/ ANSI Flanges	9362609
10	8" to 6" Reducer	1730800
11	Boot - 8-5/8" Short	0994520
12	Boot Clamp	0994507
13	Pipe Support Angle	9362605
14	8" Inlet Elbow	9362568
15	6" Lip Seal	0221015
16	Swivel Coupler	9363037
17	1/2" Lock Nut	0133005
18	1/2" x 2" Cap Screw	0161024
19	1/2" x 1-1/4" Cap Screw	0161027

ITEM	DESCRIPTION	PART #
20	3/4" x 7" U-Bolt	0176048
21	3/4" Hex Nut	0131008
22	8" ANSI Valmont Gasket	1730786
23	6" ANSI Gasket	0996639
24	3/4" x 2-1/4" Cap Screw	0161157
25	3/4" Lock Nut	0133011
26	1" NPT Plug	0246003
27	6-5/8" Triple Lip Seal	0996279
28	8-5/8" Riser	9362540
	8-5/8" Riser - Stainless Steel	9362799
	10" Riser	9362611
29	Stabilizer Plate	9362641
30	Adapter Strap	9332035
31	9/16" x 7/16" Bushing	1730525
32	Hold-Down Bracket	9363035
33	8" ANSI Gasket	0996640
34	8-5/8" Chem Stub	9362397
	10" x 8-5/8" Chem Stub	9362403
35	8" Chem Valve	0994425
36	1/2" x 2-1/2" Cap Screw	0161023
37	3/4" x 9/16" Shoulder Washer	9330220
38	Air Relief Valve Kit	0994428

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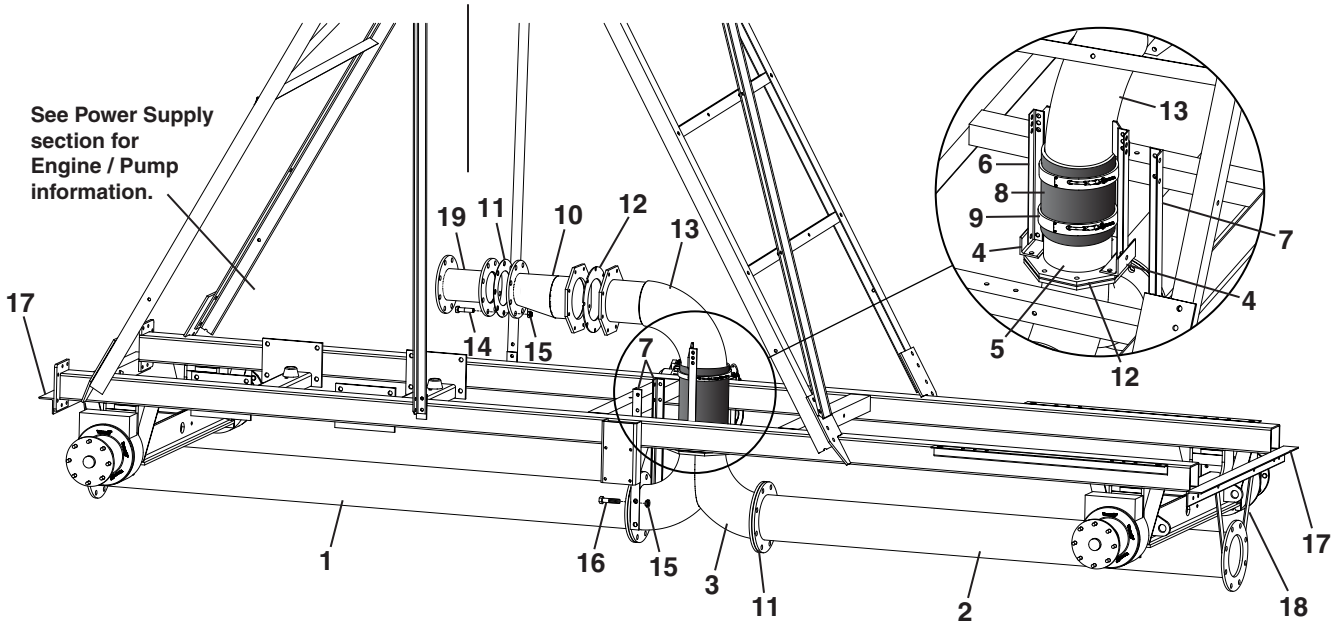


ITEM	DESCRIPTION	PART #
1	Swivel Inlet Elbow	9362602
2	Swivel Inlet Frame	9362599
3	9/16" x 5/8" Swivel Bushing	0192074
4	Half Flange	9362610
5	Swivel Stop Bracket	9362604
6	1/2" x 3" Cap Screw	0161381
7	1/2" Hex Nut	0131015
8	6" Elbow	9362590
9	6" x 9.28" Spool w/ ANSI Flanges	9362609
10	8" to 6" Reducer	1730800
11	Support Rod	9363238
12	Rod Ear	9363222
13	Pipe Support Angle	9362605
14	8" Inlet Elbow	9363237
15	6" Lip Seal	0221015
16	Swivel Coupler	9363037
17	1/2" Lock Nut	0133005
18	1/2" x 2" Cap Screw	0161024
19	1/2" x 1-1/4" Cap Screw	0161027
20	3/4" x 7" U-Bolt	0176048

ITEM	DESCRIPTION	PART #
21	3/4" Hex Nut	0131008
22	8" ANSI Valmont Gasket	1730786
23	6" ANSI Gasket	0996639
24	3/4" x 2-1/4" Cap Screw	0161157
25	3/4" Lock Nut	0133011
26	1" NPT Plug	0246003
27	6-5/8" Triple Lip Seal	0996279
28	Discharge Swivel	9363240
29	Stabilizer Plate	9362641
30	Adapter Strap	9332035
31	9/16" x 7/16" Bushing	1730525
32	Hold-Down Bracket	9363035
33	8" Triple Lip Seal	0221001
34	8" Pivot Swivel - Stainless Steel	9361575
	8" Pivot Swivel - Xenoy	9363151
35	Gruvlok Coupling	0245073
36	V-Packing	0254004
37	1" Coupling	0245061
38	Spacer	1781640
39	10" Half Clamp	1702524
40	1/2" x 2-1/2" Cap Screw	0161023

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PRIOR TO Jan 2019



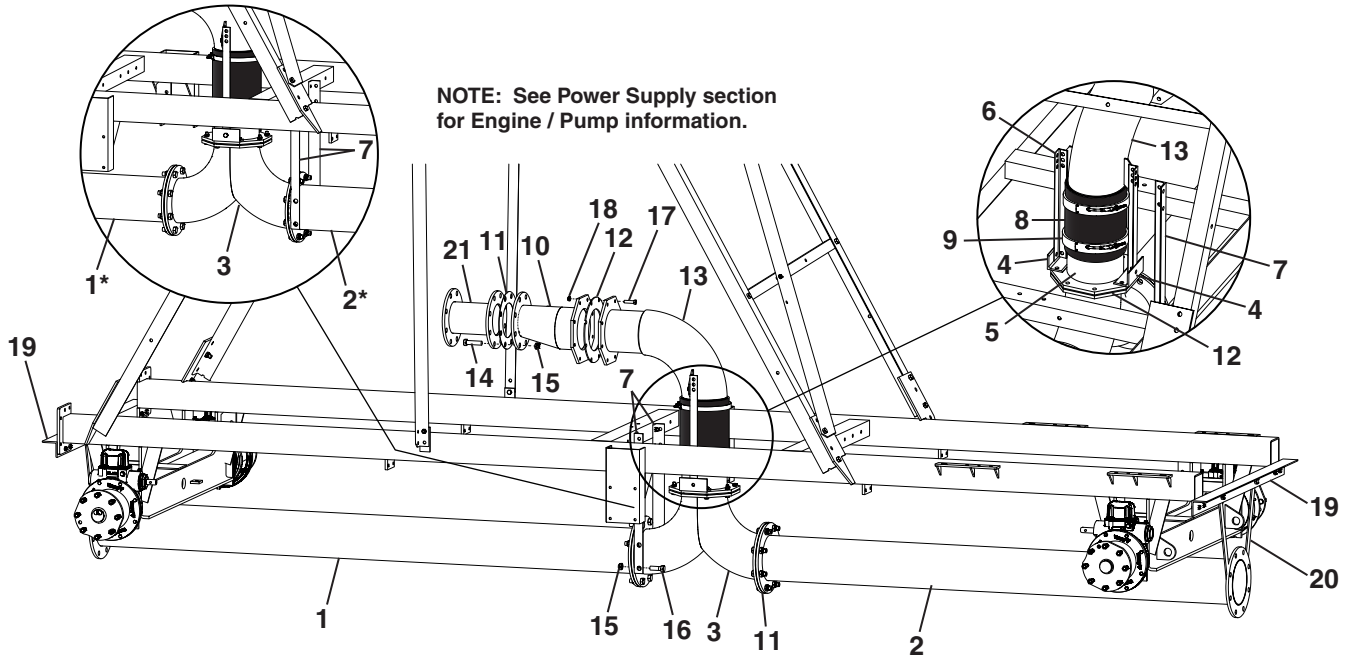
ITEM	DESCRIPTION	PART #
1	Spool Assm. - 109" [2.76m]	9362542
2	Spool Assm. - 95.09" [2.41m]	9362563
3	Inlet "Y"	9362550
4	Tie Angle	9362607
5	8-5/8" Stub	9362308
6	Link Angle - 21.81" [0.55m]	9362548
7	Pipe Hanger Angle	9362549
8	Boot - 8-5/8" Short	0997133
9	Boot Clamp	0994507
10	Pump Adapter - 8" x 6"	9362557
	Pump Adapter - 8" x 8"	9362558
	Pump Adapter - 8" x 10"	9362559
11	6" ANSI Gasket	0996639
	8" ANSI Gasket	0996640
	10" ANSI Gasket	0996641
12	8" Valmont ANSI Gasket	1730786
13	8" Inlet Elbow	9362568
14	3/4" x 3" Cap Screw	0161007
	7/8" x 3" Cap Screw	0161424
15	3/4" Lock Nut	0133011
	7/8" Hex Nut	0131005
	7/8" Lock Washer	0141069
16	3/4" x 2-1/4" Cap Screw	0161157
17	Cart End Angle	9362547
18	Pipe Hanger Strap	9362543
19	6" Dia. x 9.28" Long Spool (6" Suctions)	9362609
	8" Dia. x 6.00" Long Spool (for some 8" Suctions)	9363787
	8" Dia. x 10.00" Long Spool (for some 8" Suctions)	9364603

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EFFECTIVE
Jan 2019

NOTE: This configuration for John Deere 6068 TIVF ONLY

NOTE: See Power Supply section for Engine / Pump information.

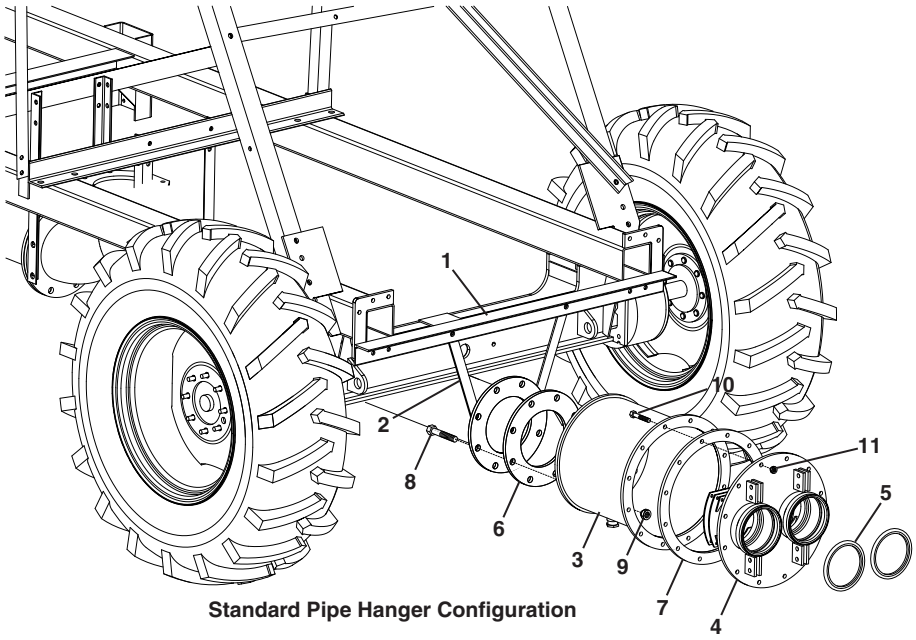


ITEM	DESCRIPTION	PART #
1	Spool Assm. - 109" [2.76m]	9362542
	Spool Assm. - 122.00" [3.09m]	9364936 *
2	Spool Assm. - 95.09" [2.41m]	9362563
	Spool Assm. - 81.30" [2.06m]	9364938 *
3	Inlet "Y"	9362550
4	Tie Angle	9362607
5	8-5/8" Stub	9362308
6	Link Angle - 16.25" [0.41m]	9364951
	Link Angle - 21.81" [0.55m]	9362548
	Link Angle - 22.00" [0.56m]	9364873
	Link Angle - 20.75" [0.53m]	9364872
	Link Angle - 20.50" [0.52m]	9364871
7	Pipe Hanger Angle	9362549
8	Boot - 8-5/8" Short	0997133
9	Boot Clamp	0994507
10	Pump Adapter - 8" x 6"	9362557
	Pump Adapter - 8" x 8"	9362558
	Pump Adapter - 8" x 10"	9362559
	Pump Adapter - 8" x 10" (Short Cart)	9364825
11	6" ANSI Gasket	0996639
	8" ANSI Gasket	0996640
	10" ANSI Gasket	0996641

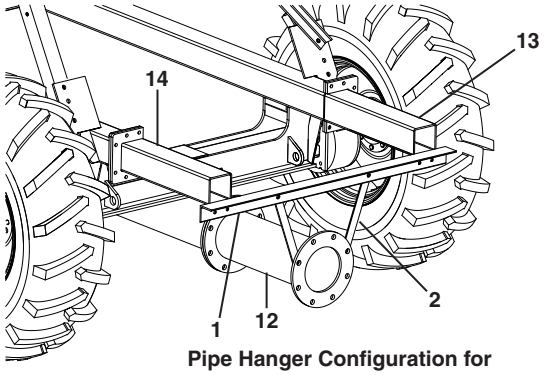
ITEM	DESCRIPTION	PART #
12	8" Valmont ANSI Gasket	1730786
13	8" Inlet Elbow	9362568
14	3/4" x 3" Cap Screw	0161007
	7/8" x 3" Cap Screw	0161424
15	3/4" Lock Nut	0133011
	7/8" Hex Nut	0131005
	7/8" Lock Washer	0141069
16	3/4" x 2-1/4" Cap Screw	0161157
17	1/2" x 2" Cap Screw	0161024
18	1/2" Lock Nut	0133005
19	Cart End Angle	9362547
20	Pipe Hanger Strap	9362543
21	6" Dia. x 9.28" Long Spool (6" Suctions)	9362609
	8" Dia. x 6.00" Long Spool (for some 8" Suctions)	9363787
	8" Dia. x 10.00" Long Spool (for some 8" Suctions)	9364603
	10" Dia. x 11.25" Long Spool (for some 10" Suctions)	9364943

***NOTE: These parts used in configuration for John Deere 6068 TIVF.**

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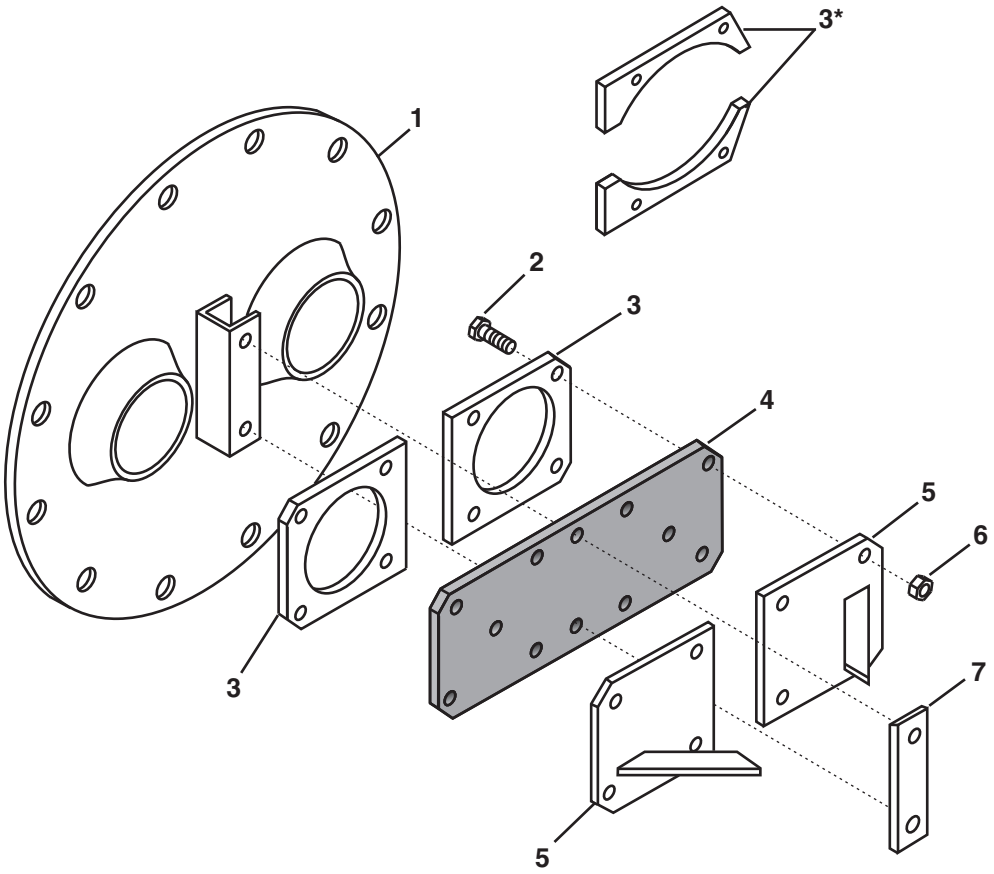
Standard Pipe Hanger Configuration



Pipe Hanger Configuration for Booster Pump pipeline with large Engine / Pump Sets

ITEM	DESCRIPTION	PART #
1	Cart End Angle	9362547
2	Pipe Hanger Strap	9362543
3	Dual Inlet End	9362544
4	4" End Cap Assm.	1732204
	6" End Cap Assm.	1732142
5	4" Pierce Gasket	0221010
	6" Pierce Gasket	0221015
6	8" ANSI Gasket	0996640
7	End Cap Gasket	0992552
8	3/4" x 2-1/4" Cap Screw	0161157
9	3/4" Lock Nut	0133011
10	1/2" x 2" Cap Screw	0161024
11	1/2" Lock Nut	0133005
12	Spool Assm. - 24.25"	9362585
13	Frame Extension - Left	9362277
14	Frame Extension - Right	9362317

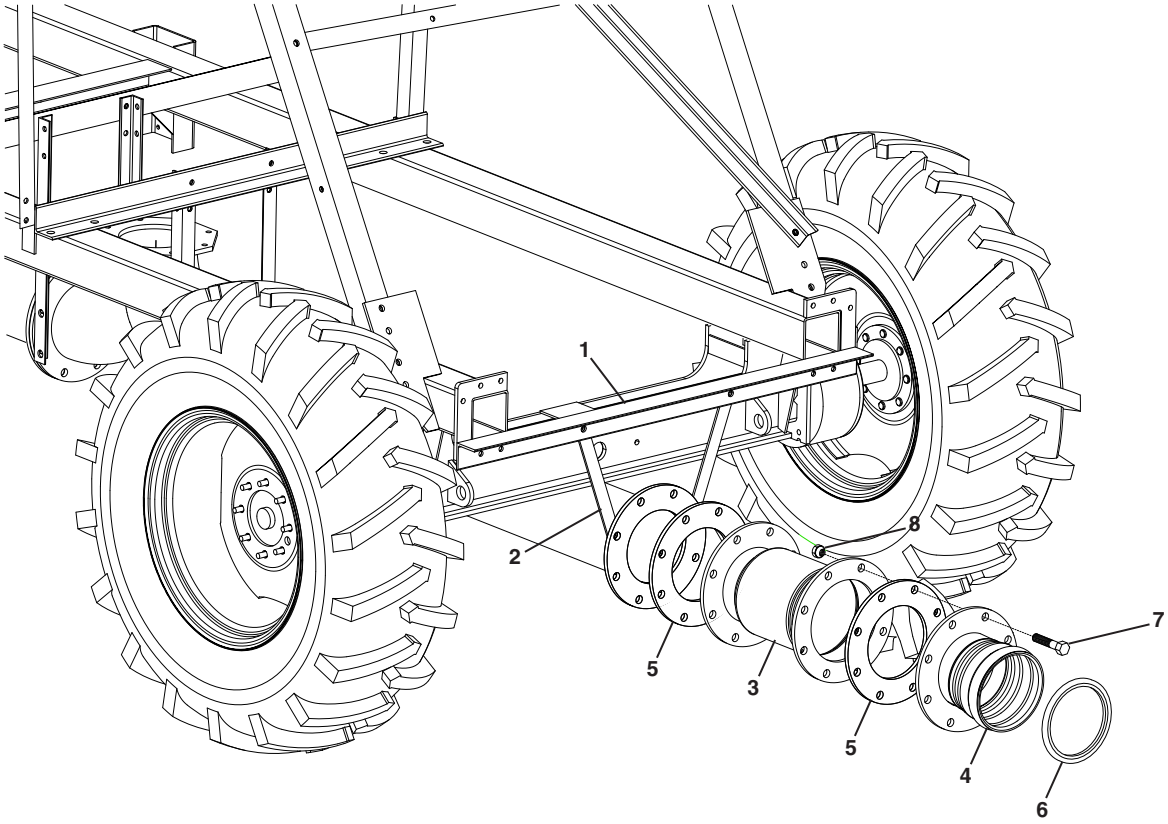
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ITEM	DESCRIPTION	4 3/4" HOSE	6" HOSE
1	End Cap Assembly	1732205	1732139
2	5/16" x 1" Cap Screw	0161052	0161052
3	Flapper Back	1732051	1732132
4	Flapper Gasket	0992332	0992551
5	Flapper Assembly	1732037	1732123
6	5/16" Lock Nut	0133007	0133007
7	Flapper Attachment (1732052 Shown)	1732052	1732126
	COMPLETE Assembly (Items 1-7)	1732204	1732142

***NOTE: Required for 6" Hose.**

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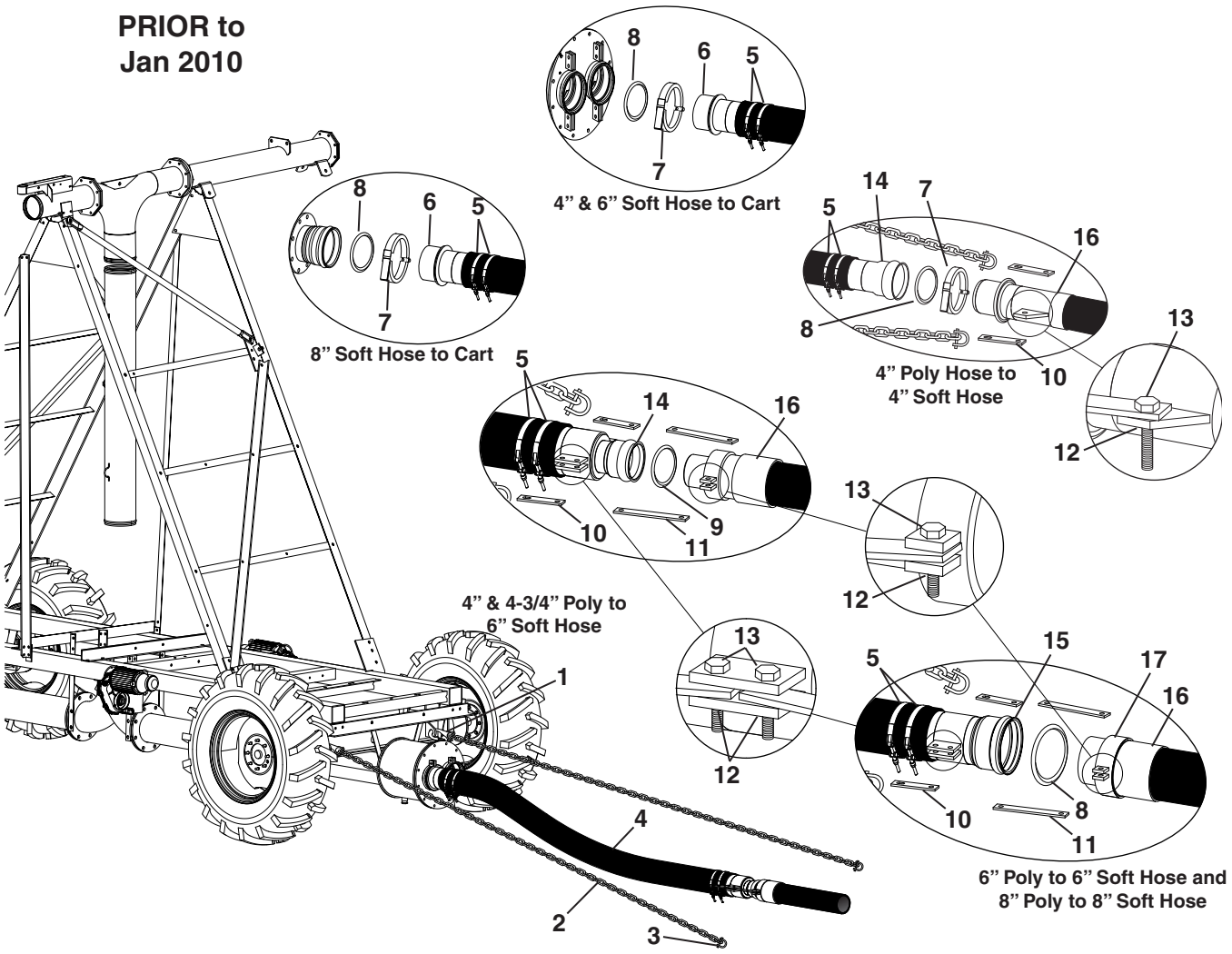
ITEM	DESCRIPTION	PART #
1	Cart End Angle	9362547
2	Pipe Hanger Strap	9362543
3	8” Check Valve	0996770
4	8” End Cap	9362561
5	8” ANSI Gasket	0996640
6	8” Pierce Gasket	099P004
7	3/4” x 2-1/4” Cap Screw	0161157
8	3/4” Lock Nut	0133011

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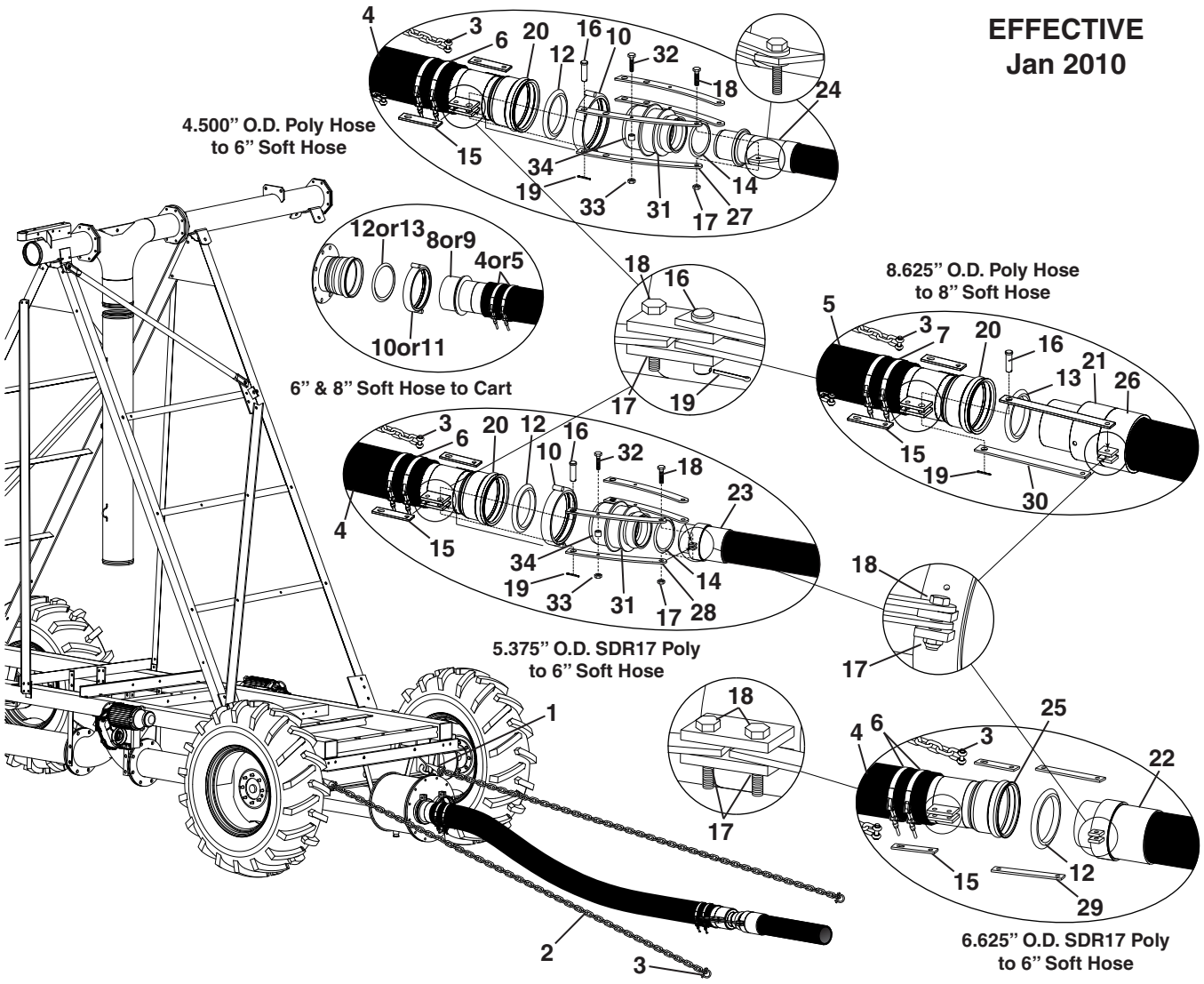


ITEM	DESCRIPTION	PART #
1	Slip Hook	0992731
2	Chain - 129"	0323066
3	Chain Shackle	0992947
4	Hose - 4" x 114"	0272046
	Hose - 6" x 114"	0272047
	Hose - 8" x 102"	0272049
5	Hose Clamp - 4"	0270044
	Hose Clamp - 6"	0991186
	Hose Clamp - 8"	0991147
6	Male Hose End - 4"	9361488
	Male Hose End - 6"	9361794
	Male Hose End - 8"	9362567
7	Circle Lock Ring - 4"	0992084
	Circle Lock Ring - 6"	0992318
	Circle Lock Ring - 8"	1K00146
8	Lip Seal - 4"	0221010
	Lip Seal - 6"	0221015
	Lip Seal - 8"	099P004

ITEM	DESCRIPTION	PART #
9	4" Pierce Gasket	0221010
	5" Western Gasket	0221014
10	Short Strap	9332034
11	Adapter Strap - 4-3/4" and 6"	9332035
	Adapter Strap - 8"	9362642
12	1/2" Lock Nut	0133005
13	1/2" x 2" Cap Screw	0161024
14	4-3/4" x 4" Adapter	9361520
	5" Soft Hose x 6" Adapter	9332202
	4-3/4" x 6" Adapter	9362106
15	6" Poly to 6" Soft Hose	9362107
	8" Poly to 8" Soft Hose	9362565
16	Poly Hose End - 8"	9362583
	Poly Hose End - 6"	1732119
	Poly Hose End - 4-3/4" (DISC. Jan 19)	1732042
	Poly Hose End - 4" (threaded)	9361522
17	Pull Ring (8" ONLY)	9362575

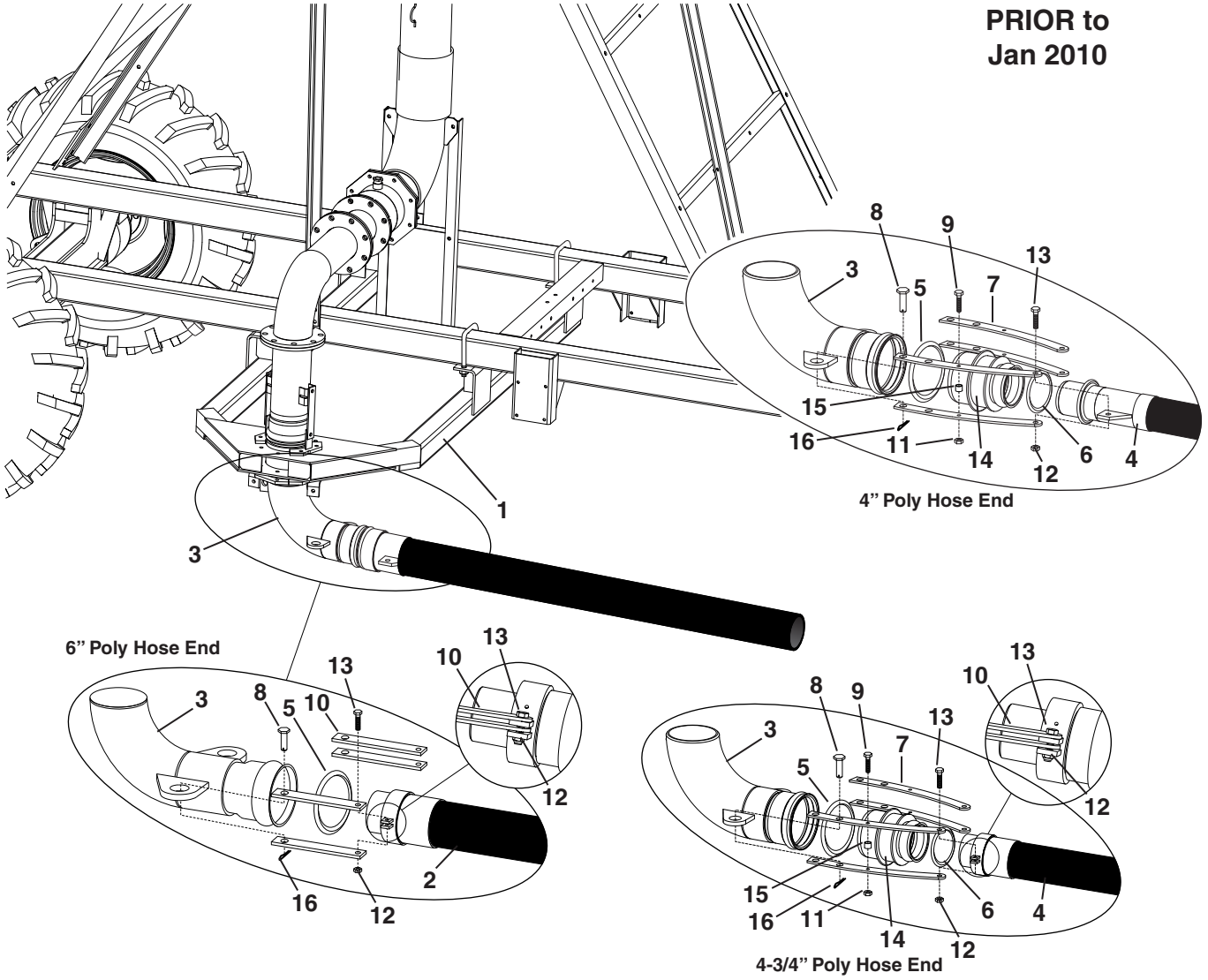
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ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Slip Hook	0992731	19	1/8" x 1-1/2" Cotter Pin	0151010
2	Chain - 129"	0323066	20	8" Poly to 8" Soft Hose	9362565
3	Chain Shackle	0992947	21	Poly Hose End - 8"	9362583
4	Hose - 6" x 114"	0272047	22	Poly Hose End - 6"-SDR17	1732119
5	Hose - 8" x 102"	0272049	23	Poly Hose End - 5"-SDR11	9332254
6	Hose Clamp - 6"	0991186		Poly Hose End - 4-3/4" (DISC. Jan 19)	1732042
7	Hose Clamp - 8"	0991147	24	Poly Hose End - 4" (threaded)	9361522
8	Male Hose End - 6"	9361794	25	6"-SDR17 Poly to 6" Soft Hose	9362107
9	Male Hose End - 8"	9362567	26	Pull Ring (8" ONLY)	9362575
10	Circle Lock Ring - 6"	0992318	27	Adapter Strap - 3" & 4"	9361925
11	Circle Lock Ring - 8"	1K00146	28	Adapter Strap - 4-3/4"	9332217
12	Lip Seal - 6"	0221015	29	Adapter Strap - 6"-SDR17	9332035
13	Lip Seal - 8"	099P004	30	Adapter Strap - 8"	9362642
14	Lip Seal - 4"	0221010	31	4" to 6" Pierce Adapter	9361924
15	Short Strap	9332034	32	5/16" x 1-1/2" Cap Screw	0161049
16	3/4" x 2-1/2" Clevis Pin	0112017	33	5/16" Lock Nut	0133007
17	1/2" Lock Nut	0133005	34	Roller Bushing	1800207
18	1/2" x 2" Cap Screw	0161024			

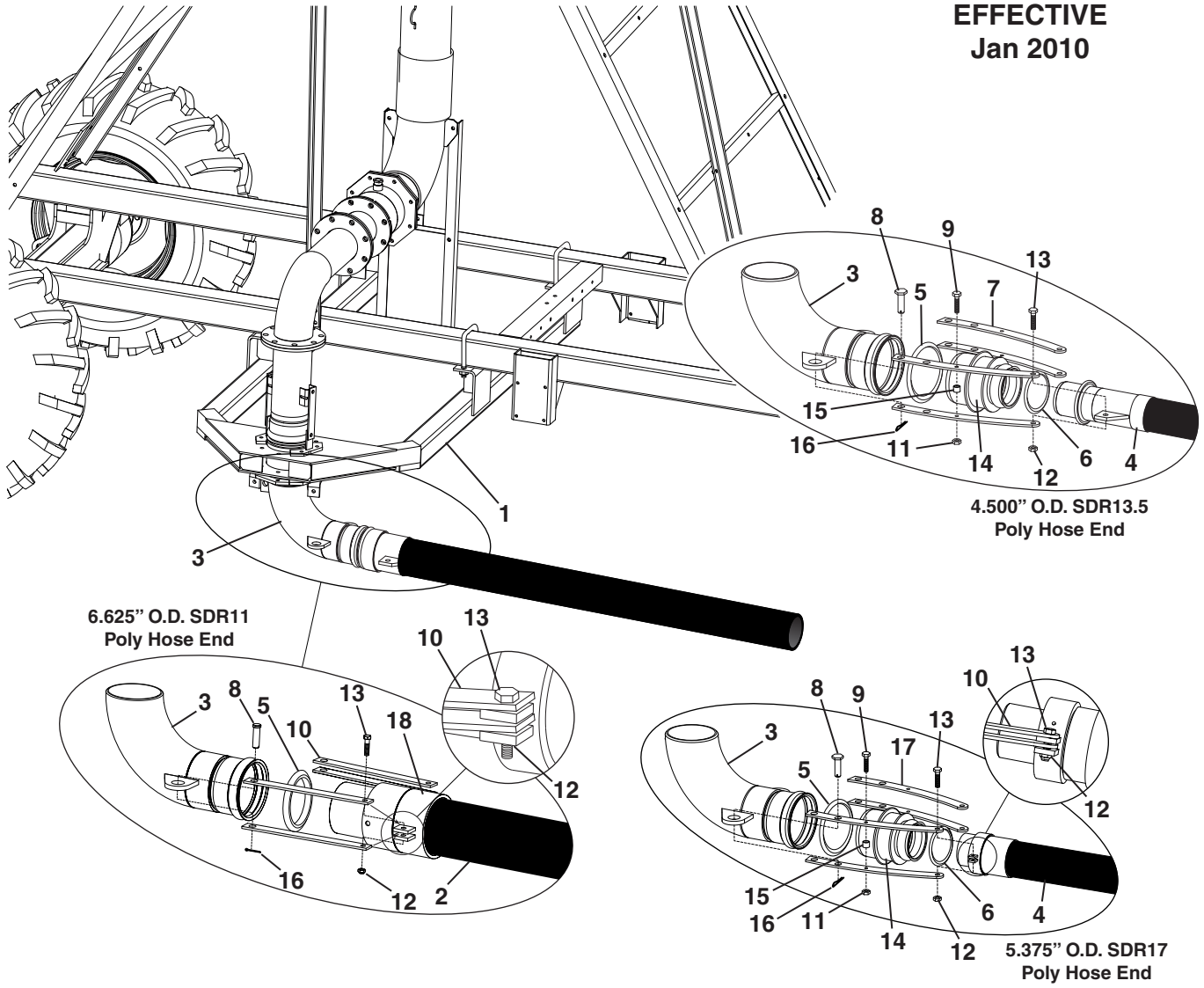
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ITEM	DESCRIPTION	PART #
1	Hose Pull Frame - 6" Inlet	9362599
2	Poly Pipe End - 6"	1732119
3	6" Inlet Elbow	9362602
4	Poly Pipe End - 4" (threaded)	9361522
	Poly Pipe End - 4-3/4" (DISC. Jan 19)	1732042
5	6" Gasket	0221015
6	4" Gasket	0221010
7	Pull Adapter Strap	9361925
8	3/4" x 2-1/2" Clevis Pin	0112017
9	5/16" x 1-1/2" Cap Screw	0161049
10	Pull Strap	9362003
11	5/16" Lock Nut	0133007
12	1/2" Lock Nut	0133005
13	1/2" x 2" Cap Screw	0161024
14	4" to 6" Pierce Adapter	9361924
15	Roller Bushing	1800207
16	1/8" x 1-1/2" Cotter Pin	0151010

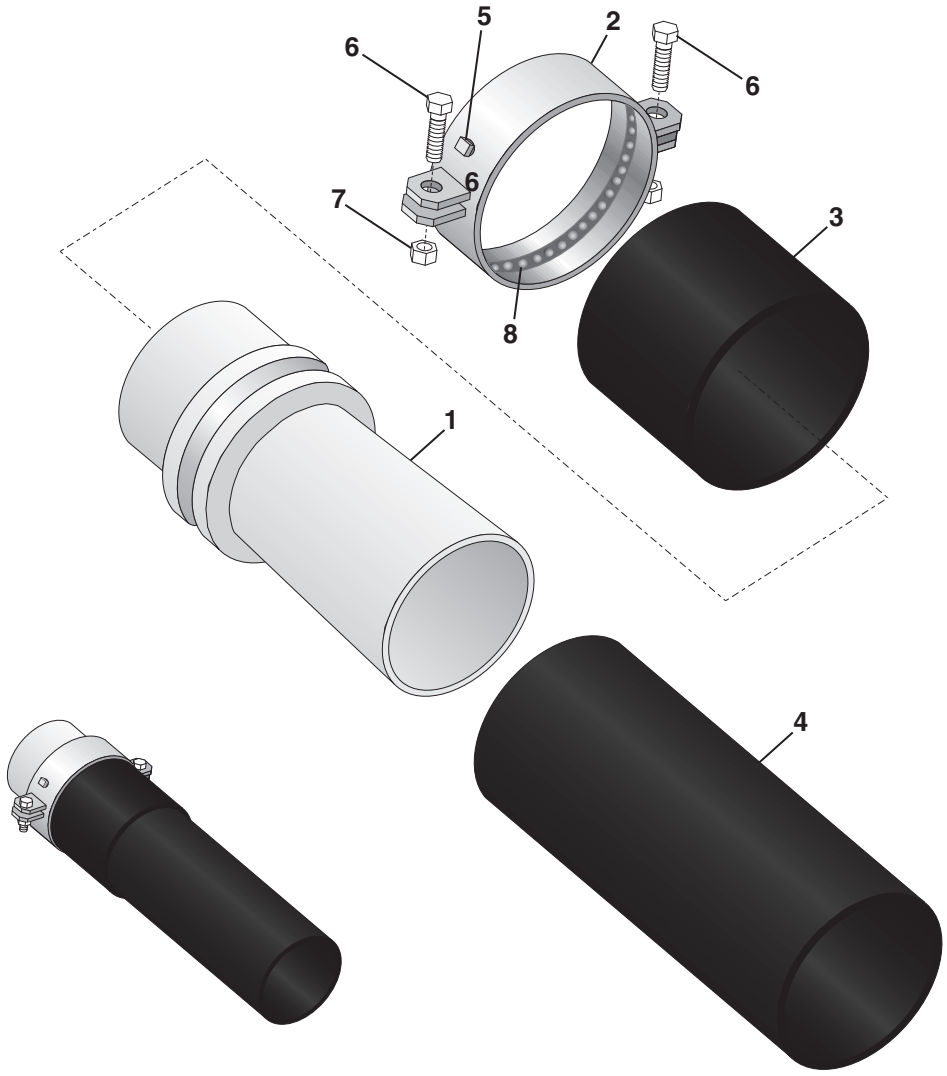
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ITEM	DESCRIPTION	PART #
1	Hose Pull Frame - 6" Inlet	9362599
2	Poly Hose End - 6" x SDR11	9332223
3	6" Inlet Elbow	9362602
4	Poly Pipe End - 4" (threaded)	9361522
	Poly Pipe End - 5" SDR11	9332254
	Poly Pipe End - 4-3/4" (DISC. Jan 19)	1732042
5	6" Gasket	0221015
6	4" Gasket	0221010
7	Pull Adapter Strap	9361925
8	3/4" x 2-1/2" Clevis Pin	0112017
9	5/16" x 1-1/2" Cap Screw	0161049
10	Pull Strap	9332219
11	5/16" Lock Nut	0133007
12	1/2" Lock Nut	0133005
13	1/2" x 2" Cap Screw	0161024
14	4" to 6" Pierce Adapter	9361924
15	Roller Bushing	1800207
16	1/8" x 1-1/2" Cotter Pin	0151010
17	Pull Strap	9332217
18	Pull Ring (6" x SDR11)	9332221

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ITEM	DESCRIPTION	- 4-3/4” - 5.375" SDR17 HOSE (4.743 I.D.)	- 6” - 6.625” SDR 17 Poly (5.799 I.D.)	- 6” - 6” SDR13.5 Poly (6.625 O.D.)
1	Sleeve - Poly Pipe	1732045**	1732122	1732122
2	Collar Swivel Assembly	1732046**	1732116	1732116
3	Collar - Poly Pipe	1732044**	1732120	1732120
4	Poly Pipe 28"	1732043**	1732121	1732121
5	Pipe Plug 1/4" NPT	0246104	0246104	0246104
6	3/8" x 1-3/4" Cap Screw	0161041	0161041	0161041
7	3/8" Nut	0133006	0133006	0133006
8	Ball Bearing	0992326	0992326	0992326
	Poly Pipe & Assembly	1732042***	1732119	1732119
	Poly Pipe	0992329***	0992556	0997364*

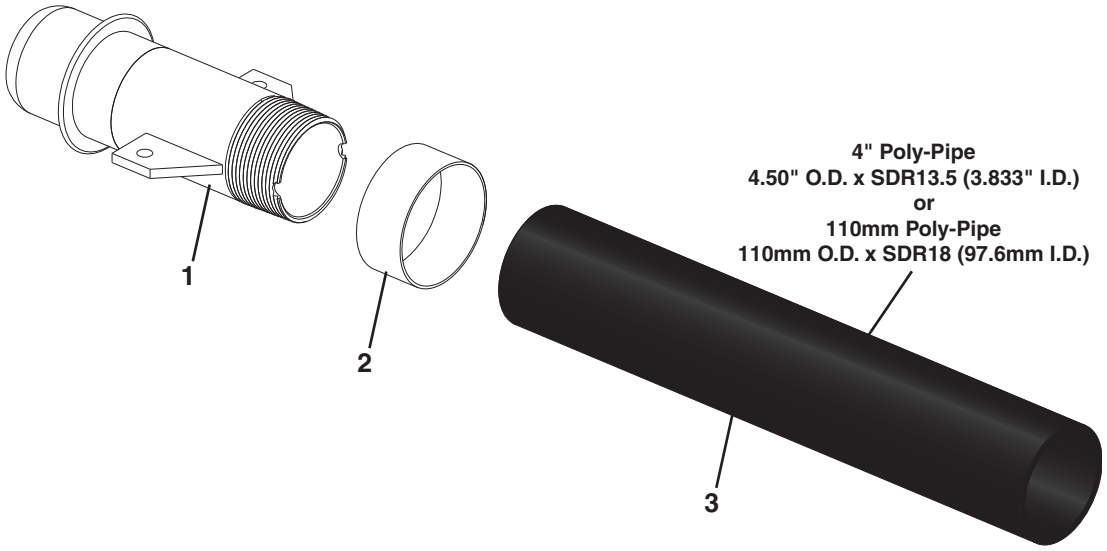
* NOTE: Part DISCONTINUED Dec 2015. Replace with 0992556.

** NOTE: Part OBSOLETED Jan 2018.

*** NOTE: Part DISCONTINUED Jan 2018. Replace with 9332254 & 0999836.

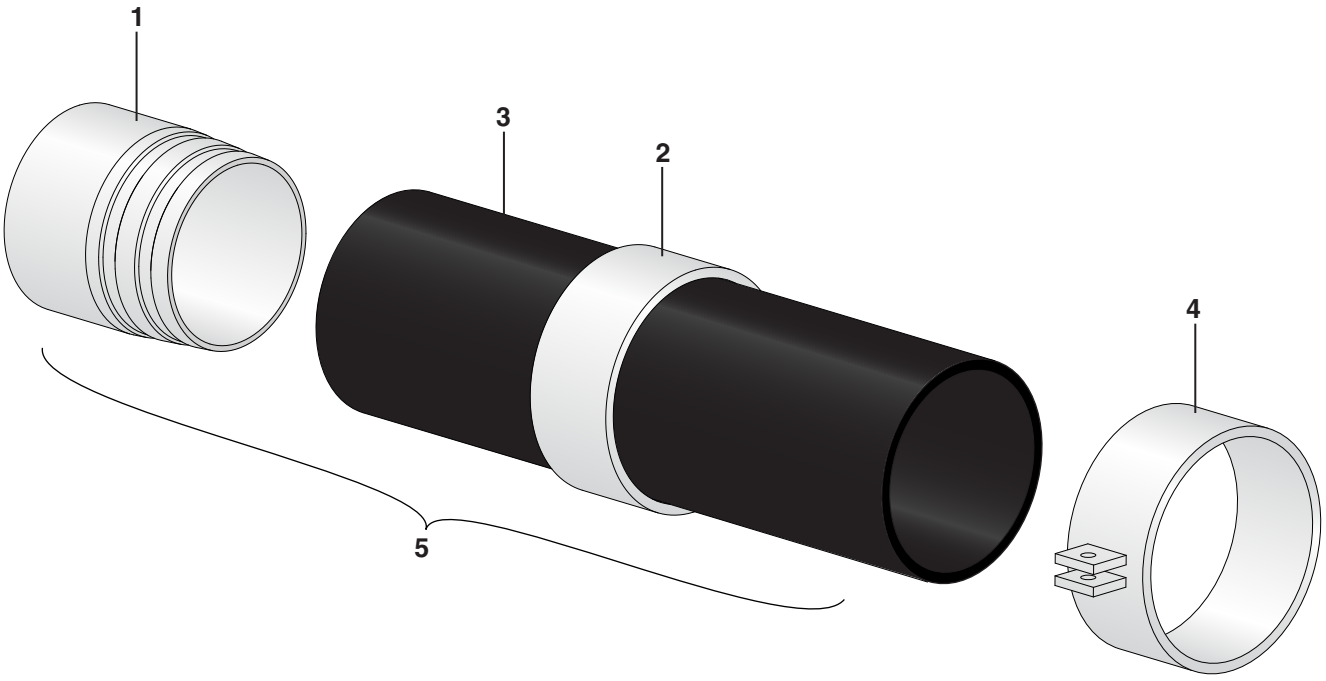
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NOTE: To field install place Sleeve over end of Poly-Pipe and screw Coupler inside Poly-Pipe.



ITEM	DESCRIPTION	PART #
1	4" PE Pipe Fiting x 4" Coupler	9361522
2	4" PE Pipe Sleeve	9361524
3	4" x 750' Poly Coil	0997223

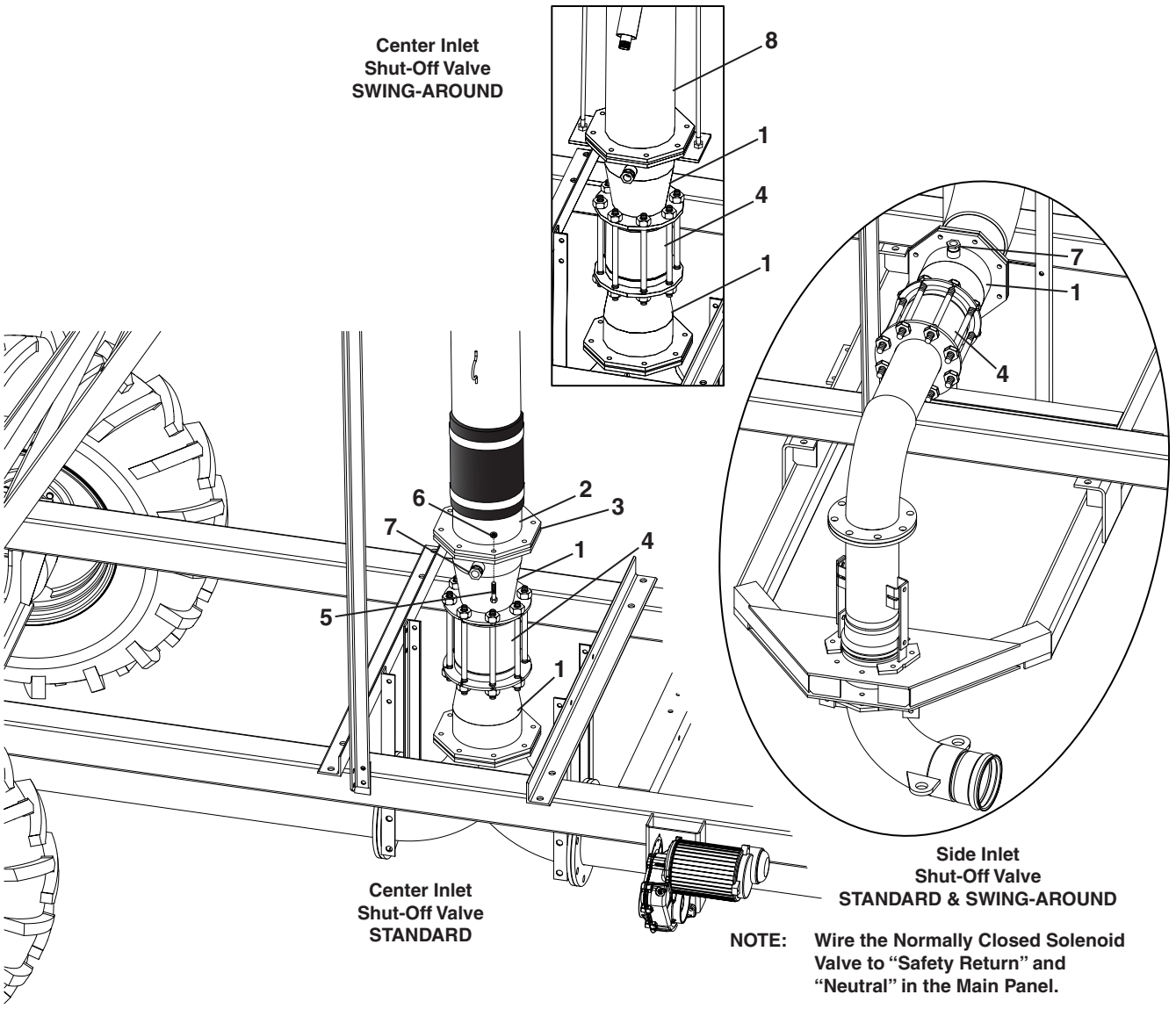
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ITEM	DESCRIPTION	- 8” - 8.625” O.D. HOSE (7.549” I.D.)	- 6” - 6.625” O.D. SDR11 Poly (5.348” I.D.)
1	Poly Pipe End	9362576	9332226
2	Sleeve - Poly Pipe	9362577	9332224
3	Poly Pipe 30"	9362556	9332225
4	Pull Ring Assembly	9362575	9332221
5	Poly Pipe & Assembly (Incl. Items 1-3)	9362583	9332223
	39' Poly Pipe	0997119	0997928

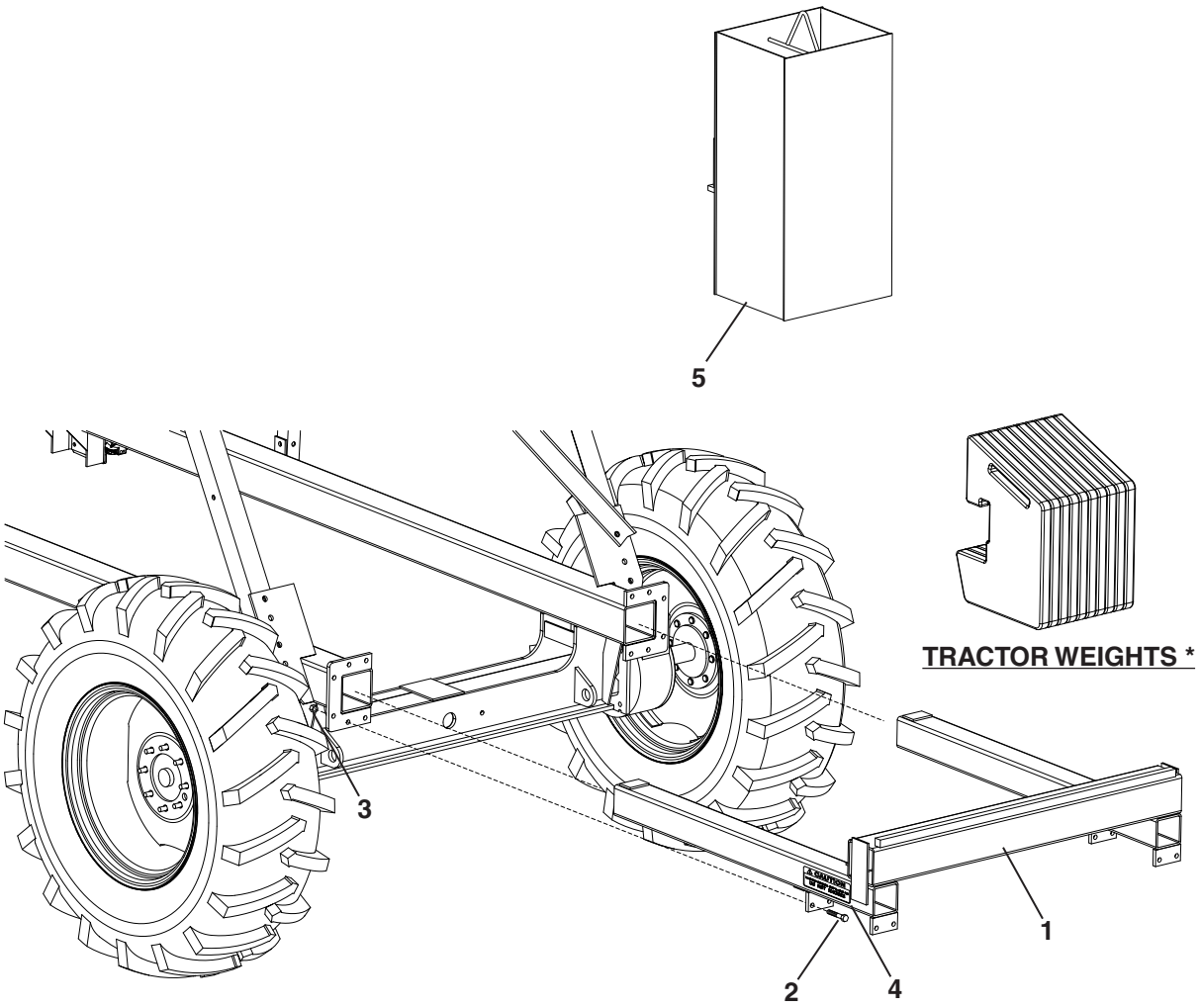
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NOTE: Wire the Normally Closed Solenoid Valve to "Safety Return" and "Neutral" in the Main Panel.

ITEM	DESCRIPTION	PART #
1	8" to 6" Reducer	1730800
2	8-5/8" Stub	9362308
3	8" Valmont ANSI Gasket	1730786
4	6" Nelson Valve (Bolts Included)	0232515
5	1/2" x 2" Cap Screw	0161024
6	1/2" Lock Nut	0133005
7	1" NPT Plug	0246003
8	Discharge Swivel	9363241

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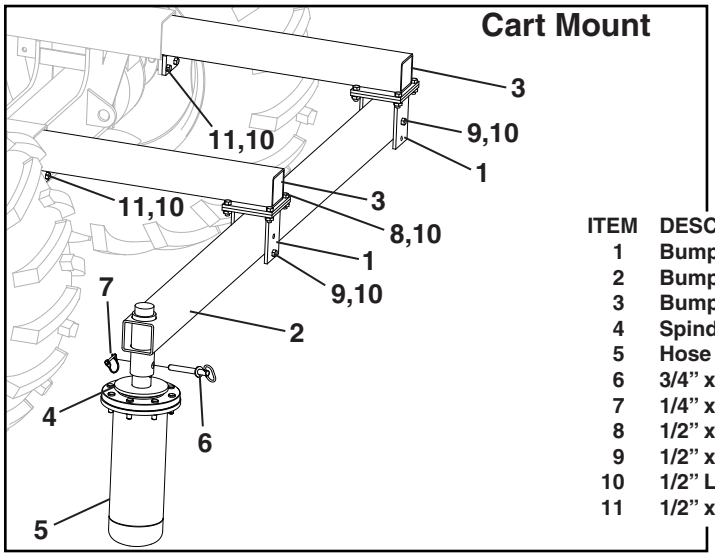
ITEM	DESCRIPTION	PART #
1	Weight Rack Assm	9362837
2	1/2” x 2” Cap Screw	0161024
3	1/2” Lock Nut	0133005
4	Decal - CAUTION Platform Capacity	0997161
** 5	Concrete Weight Box Assm.	9363907

* NOTE: Tractor Weights provided by customer. (Max. 2800lb per end)

** NOTE: Concrete provided by customer. Weight Box + Concrete = 1300lb. Max. 2 per end (4 per cart).

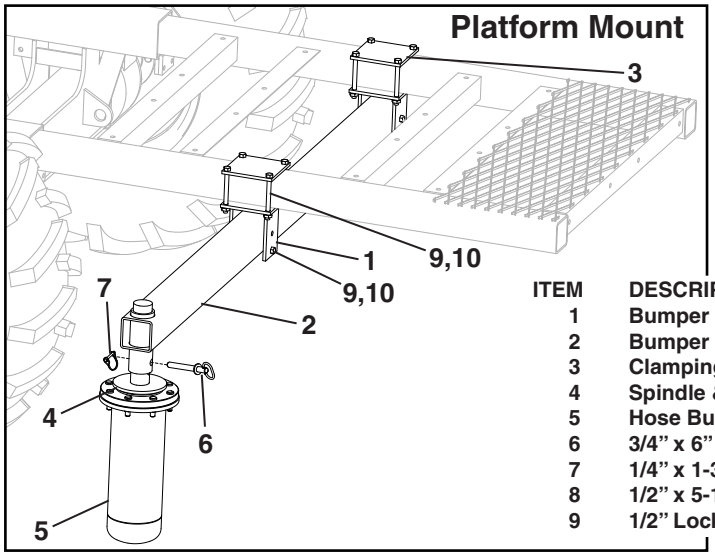
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Cart Mount



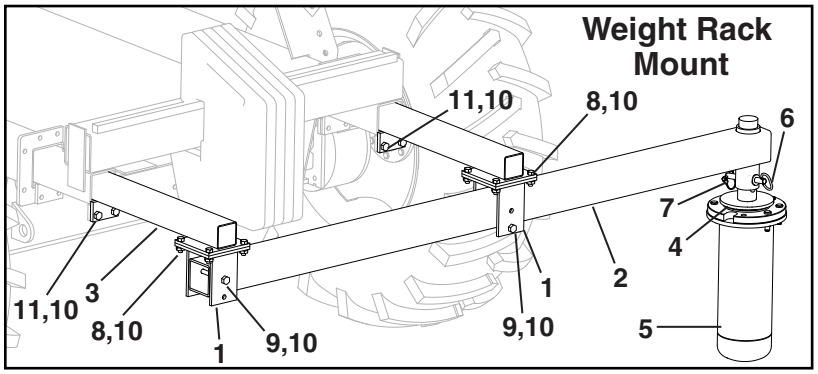
ITEM	DESCRIPTION	PART #
1	Bumper Bracket	9363069
2	Bumper Mount Tube	9363074
3	Bumper Tube, 4" x 4"	9363075
4	Spindle & Hub Assm.	9363068
5	Hose Bumper Assm.	9363071
6	3/4" x 6" Pin	0112043
7	1/4" x 1-3/8" Lynch Pin	0112042
8	1/2" x 1-1/4" Cap Screw	0161027
9	1/2" x 5-1/2" Cap Screw	0161018
10	1/2" Lock Nut	0133005
11	1/2" x 2" Cap Screw	0161024

Platform Mount



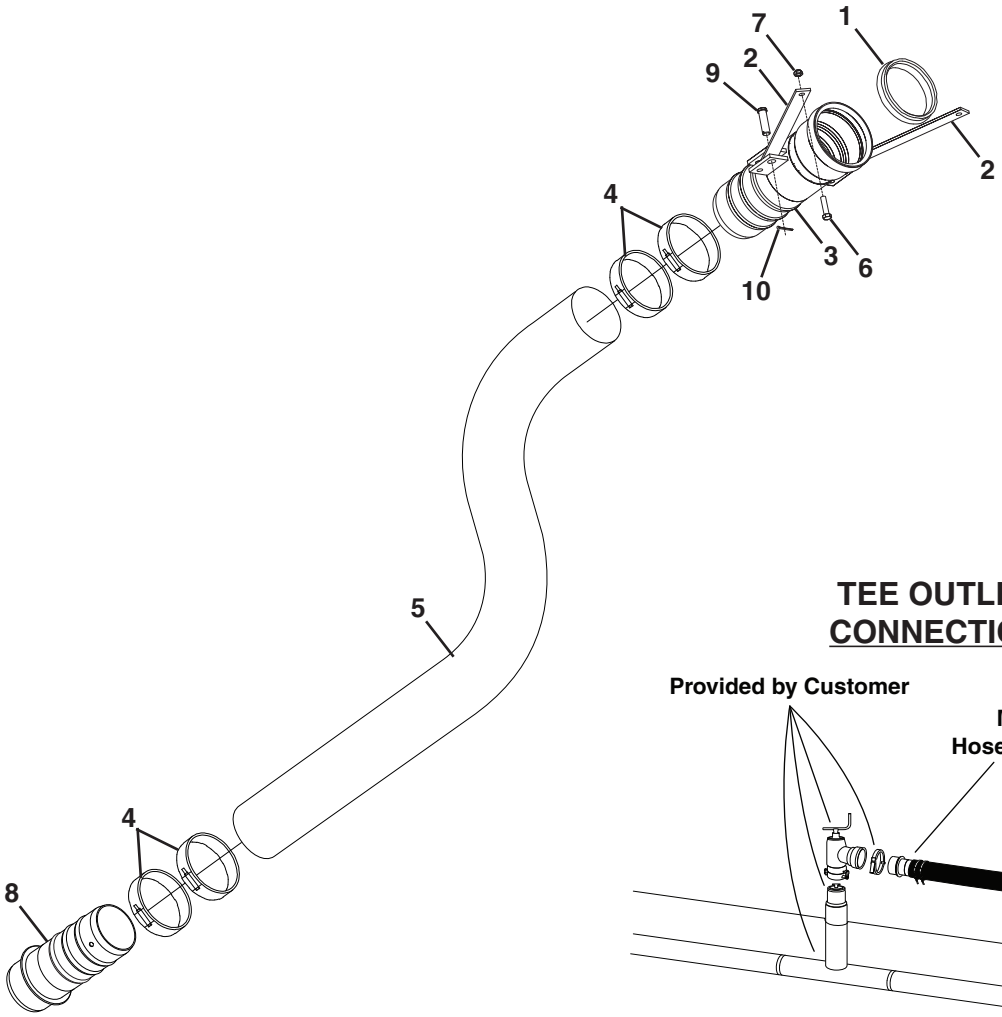
ITEM	DESCRIPTION	PART #
1	Bumper Bracket	9363069
2	Bumper Mount Tube	9363074
3	Clamping Plate	9363077
4	Spindle & Hub Assm.	9363068
5	Hose Bumper Assm.	9363071
6	3/4" x 6" Pin	0112043
7	1/4" x 1-3/8" Lynch Pin	0112042
8	1/2" x 5-1/2" Cap Screw	0161018
9	1/2" Lock Nut	0133005

Weight Rack Mount



ITEM	DESCRIPTION	PART #
1	Bumper Bracket	9363069
2	Bumper Mount Tube	9363074
3	Bumper Tube, 3" x 3"	9363076
4	Spindle & Hub Assm.	9363068
5	Hose Bumper Assm.	9363071
6	3/4" x 6" Pin	0112043
7	1/4" x 1-3/8" Lynch Pin	0112042
8	1/2" x 1-1/4" Cap Screw	0161027
9	1/2" x 5-1/2" Cap Screw	0161018
10	1/2" Lock Nut	0133005
11	1/2" x 2" Cap Screw	0161024

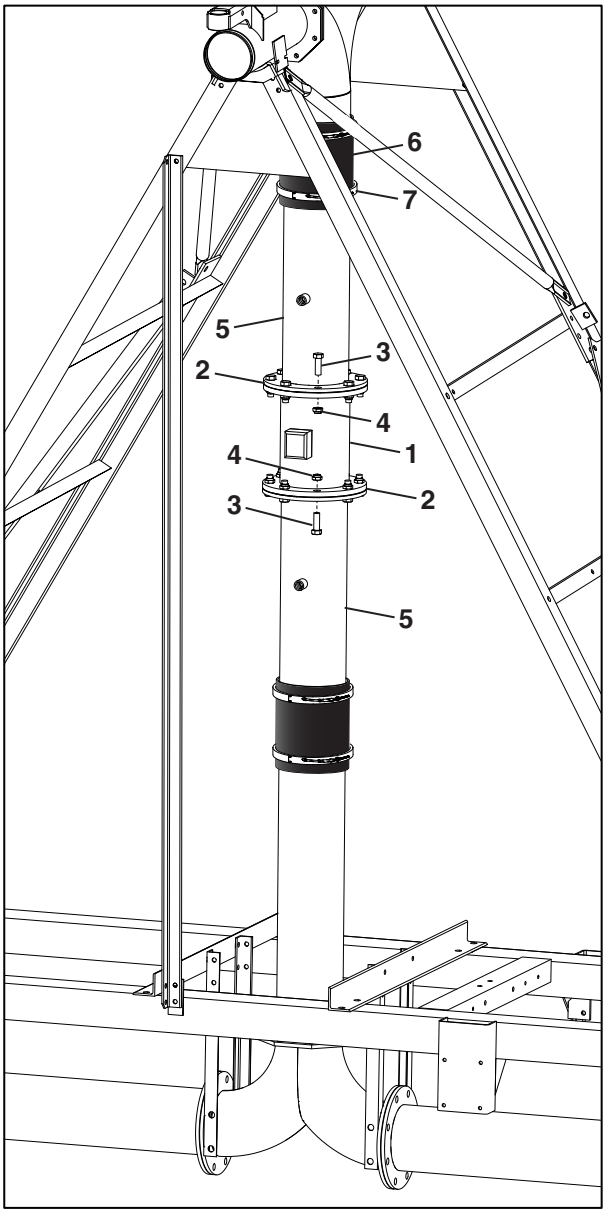
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TEE OUTLET CONNECTION

ITEM	DESCRIPTION	6.625” POLY Hose (SDR11) PART #	6.625” POLY Hose (SDR17) PART #	5.375” POLY Hose (SDR17) PART #	8.625” POLY Hose (SDR17) PART #	5.563” POLY Hose (SDR11) PART #
1	Gasket	0221015(6”)	0221015(6”)	0221010(4”)	099P004(8”)	0221015(6”)
2	Adapter Strap	9332219	9332035	9332035	9362642	9332219
3	Female Hose Adapter	9332229	9362107(6”)	9362106(4”)	9362565(8”)	9332229
4	Clamp	0991186(6”)	0991186(6”)	0991186(6”)	0991147(8”)	0991186(6”)
5	Soft Hose	0272047(6”)	0272047(6”)	0272047(6”)	0272049(8”)	0272047(6”)
6	1/2” x 2” Cap Screw	0161024	0161024	0161024	0161024	0161024
7	1/2” Lock Nut	0133005	0133005	0133005	0133005	0133005
8	Male Hose Adapter	9361794	9361794	9361794	9362567	9362567
9	3/4” x 2-1/2” Clevis Pin	0112017	N/A	N/A	N/A	0112017
10	1/8” x 1-1/2” Cotter Pin	0151010	N/A	N/A	N/A	0151010

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ITEM	DESCRIPTION	PART #
1	Seametrics Flowmeter - 8”	Contact Valley Parts
	Seametrics Flowmeter Output Cable - 20’	Contact Valley Parts
	Seametrics Weather Guard	Contact Valley Parts
2	8” Gasket - Red Rubber	0996640
3	3/4” x 2-1/4” Cap Screw	0161157
4	3/4” Lock Nut	0133011
5	8-5/8” Hose Barb - Galvanized	9363954
	8-5/8” Hose Barb - Stainless Steel	9363953
6	8-5/8” Flex Hose	0994520
7	Boot Clamp - 8-5/8”	0994507

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DITCH FEED

Rainger Linear - Effective 6/06

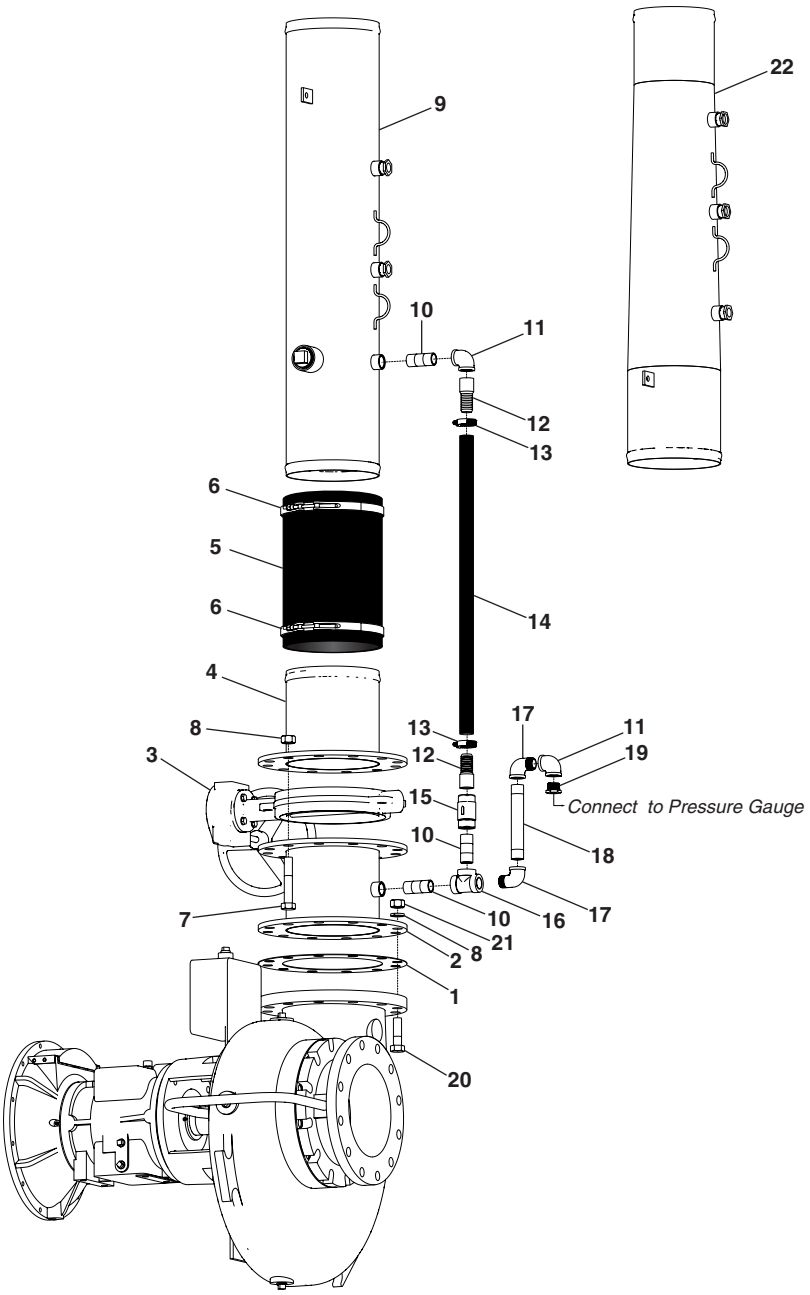
Description	Rev. #	Pg. #
DITCH FEED		
10" Pump Discharge	06-14	3-3
4", 5", 6" & 8" Pump Discharge	06-14	3-4
Chemigation Valve Pump Discharge	07-11	3-5
12” and 14” Suction Inlet	01-19	3-6
16” Suction Inlet	01-19	3-7
12", 14" & 16" Floating Inlet Pipe	02-17	3-8
Rolling Inlet Pipe	11-18	3-9
12" & 14" Non-Self Cleaning Inlets	04-10	3-10
Ditch Field Inlet Extension Spools	07-16	3-11
Single Inlet w/Two Section Frame	06-06	3-12
Single Inlet w/Three Section Frame	06-06	3-13
12" T - Double Inlet w/Three Section Frame	01-11	3-14
12" Y - Double Inlet w/Three Section Frame	01-11	3-15
16" T - Double Inlet w/Three Section Frame	07-16	3-16
Floats & Hardware for Single Floating Inlet	06-06	3-17
Floats & Hardware for Double Floating Inlet (14" & 16")	07-16	3-18
Auxiliary Floats & Hardware for 16" Inlet	07-16	3-19
Floats & Hardware for Double Floating Inlet (12")	06-06	3-20
Blank Page	01-11	3-21
Rolling Inlet Frame 12" & 24" Canal Bottom - PRIOR to Jan 11	01-11	3-22
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Rolling Inlet Frame 12" & 24" Canal Bottom - EFFECTIVE Oct 17	05-18	3-24
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Self-Cleaning Inlet Supply Plumbing - Double Screens	12-17	3-28
Self-Cleaning Inlet Supply Plumbing - Single Screens	07-16	3-29
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End Feed Inlet Lift	02-17	3-31
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Swing-Around Inlet Lift Outboard Ditch	04-18	3-33
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MCOD0075
04-19

Description	Rev. #	Pg. #
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Power Pedestal Mounting	02-10	3-46
Cable Kit Usage Chart	02-10	3-47

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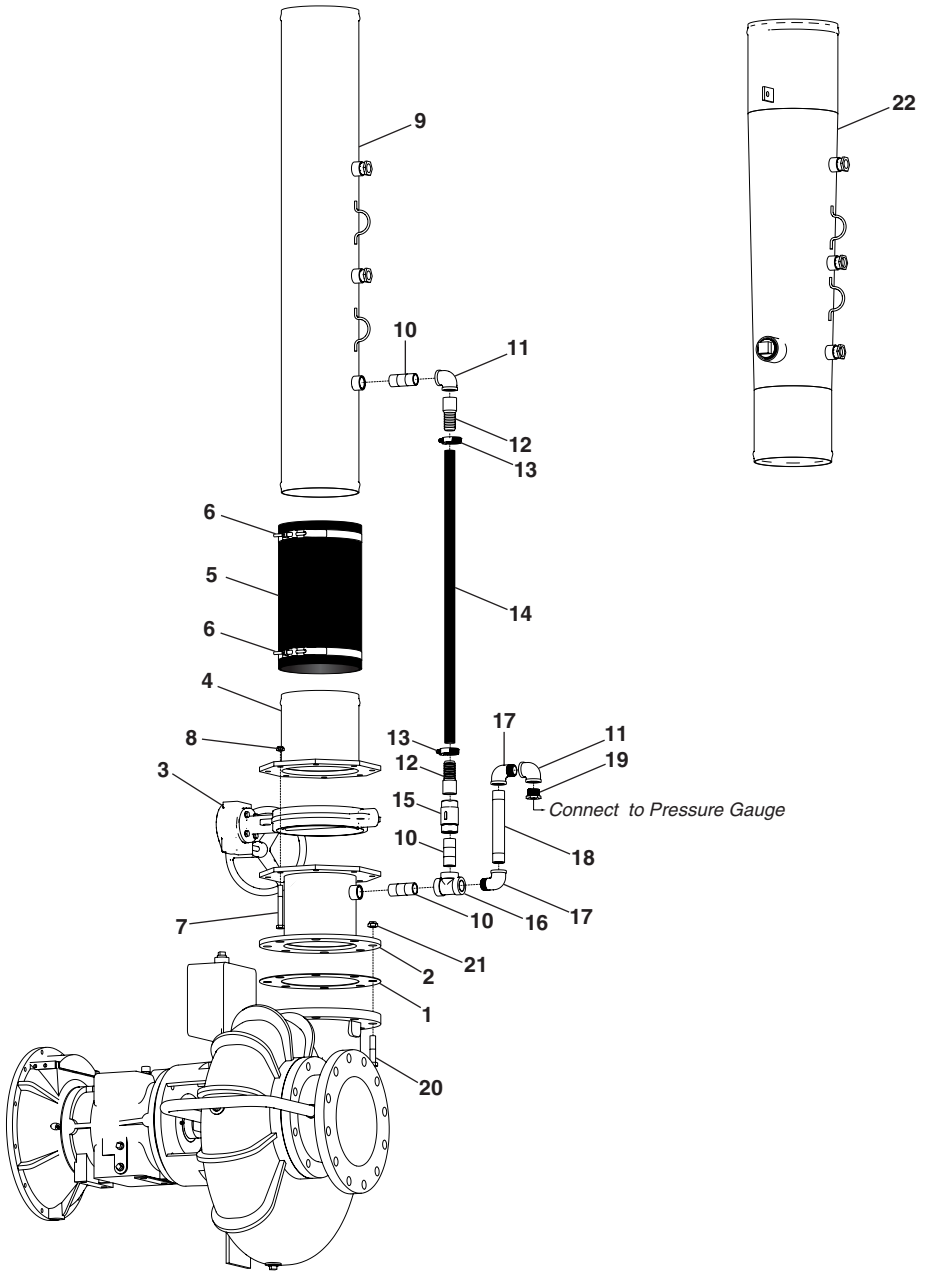


ITEM	DESCRIPTION	PART #
1	10" ANSI Gasket	0996641
2	10" to 10" Reducer	9363930
3	10" Valve	0994161
4	10" Discharge Adapter	9363931
5	10" Flex Joint Hose	1702326
6	10" Flex Joint Clamp	0992441
7	7/8" x 5" Cap Screw (10" Pump x 10" Span)	0161432
8	7/8" Lock Washer	0141069
9	10" x 10" Riser Pipe	9363929
10	1" x 3" Nipple	0211035
11	1" x 90° Elbow	0241036

ITEM	DESCRIPTION	PART #
12	1" Hose Insert	0271025
13	1" Hose Clamp	0271013
14	1" Hose - 24" Long	1901957
15	1" Check Valve	0232404
16	1" Tee	0242005
17	1" Street Elbow	0241017
18	1" x 8" Nipple	0211010
19	1" x 1/4" Reducing Bushing	0244007
20	7/8" x 3" Cap Screw	0161424
21	7/8" Hex Nut	0131005
22	8-5/8" x 10" Riser Pipe	9362341

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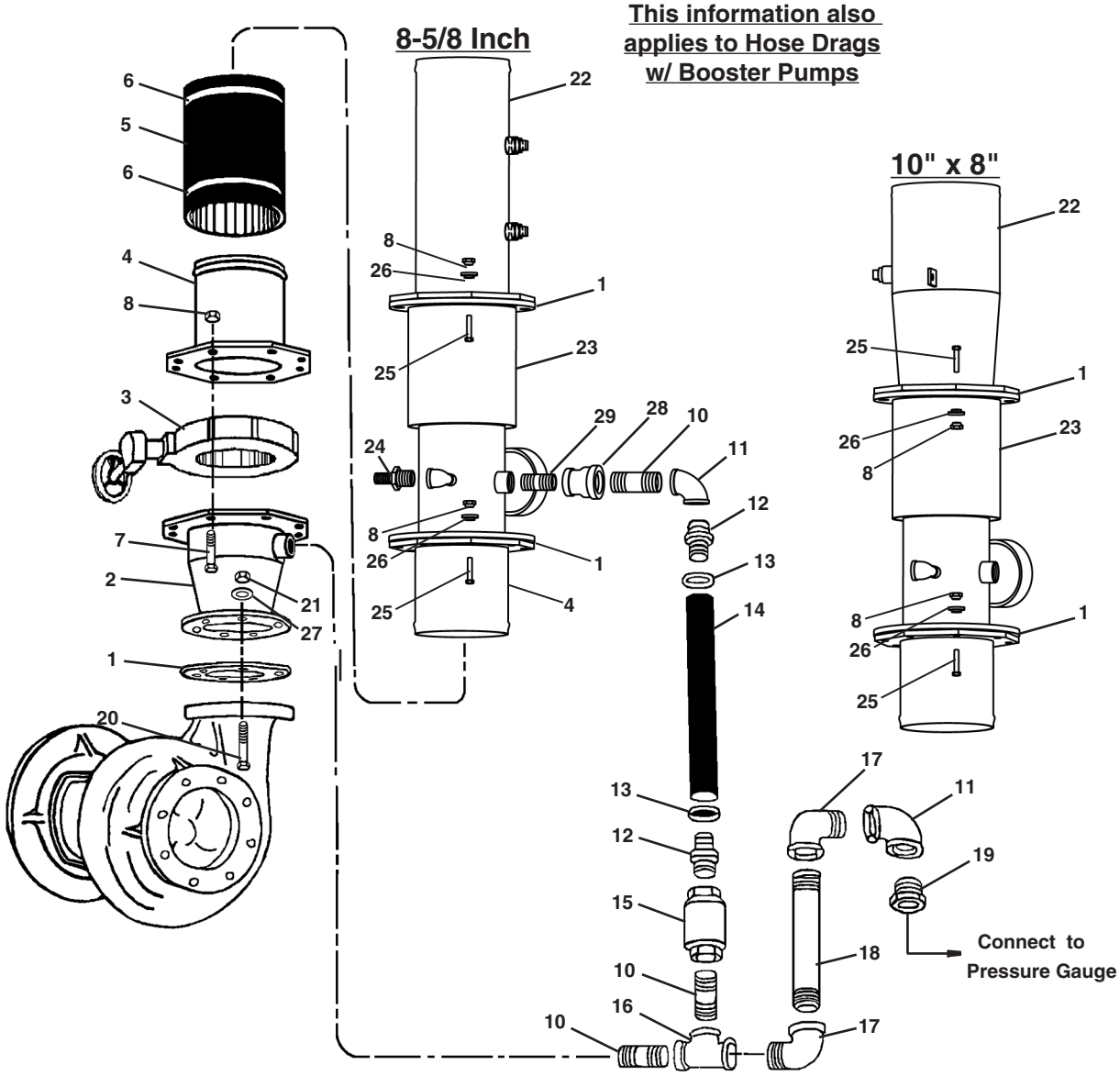
Functional Area	Assembly / Part	Rev# 06-14
Ditch Feed	4", 5", 6" & 8" Pump Discharge	



ITEM	DESCRIPTION	PART #
1	4" Rubber Gasket	0996637
	5" Rubber Gasket	0996638
	6" Rubber Gasket	0996639
	8" Rubber Gasket	0996640
2	8" to 4" Reducer	1731336
	8" to 5" Reducer	1730802
	8" to 6" Reducer	1730800
	8" to 8" Reducer	1780761
	10" to 8" Reducer	9330148
3	8" Valve w/Actuator	0992647
4	8-5/8" Discharge Adapter	9362308
5	8-5/8" Flex Joint Hose	0994520
6	8-5/8" Flex Joint Clamp	0994507
7	1/2" x 4-1/2" Cap Screw	0161110
8	1/2" Lock Nut	0133005
9	8-5/8" Riser Pipe	9362255
	8-5/8" Riser Pipe - Stainless Steel	9362801

ITEM	DESCRIPTION	PART #
10	1" x 3" Nipple	0211035
11	1" x 90° Elbow	0241036
12	1" Hose Insert	0271025
13	1" Hose Clamp	0271013
14	1" Hose - 24" Long	1901957
15	1" Check Valve	0232404
16	1" Tee	0242005
17	1" Street Elbow	0241017
18	1" x 8" Nipple	0211010
19	1" x 1/4" Reducing Bushing	0244007
20	3/4" x 3" Cap Screw	0161007
	5/8" x 3" Cap Screw	0161010
21	3/4" Lock Nut	0133011
	5/8" Lock Nut	0133010
22	8-5/8" x 10" Riser Pipe	9362341

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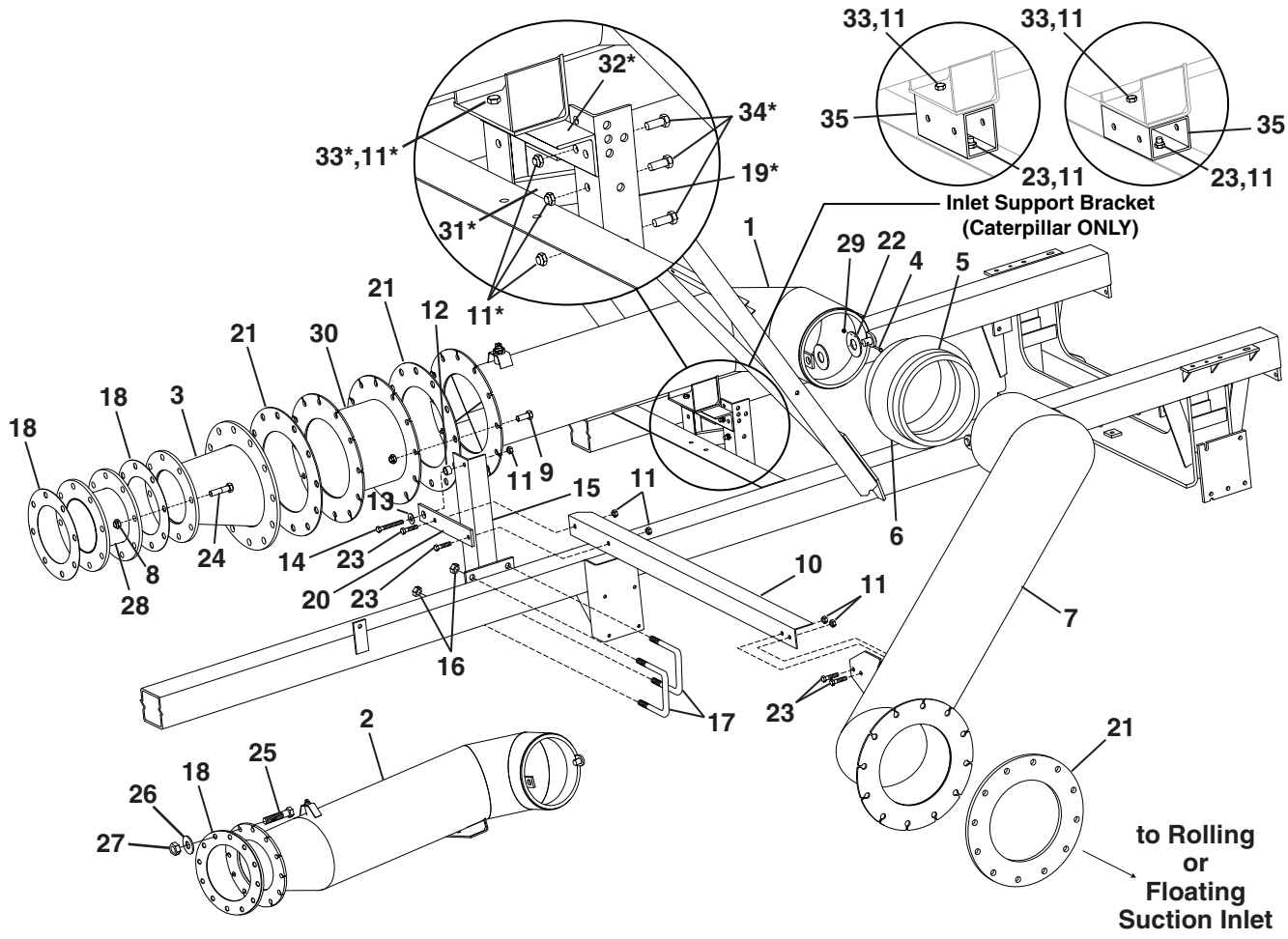


ITEM	DESCRIPTION	PART #
1	4" Rubber Gasket	0996637
	5" Rubber Gasket	0996638
	6" Rubber Gasket	0996639
	8" Rubber Gasket	0996640
	10" ANSI Gasket	0996641
2	8" to 4" Reducer	1731336
	8" to 5" Reducer	1730802
	8" to 6" Reducer	1730800
	8" to 8" Reducer	1780761
	10" to 8" Reducer	9330148
3	8" Valve w/Actuator	0992647
4	Adapter Discharge	9362308
5	8-5/8" Flex Joint Hose	0994520
6	8-5/8" Flex Joint Clamp	0994507
7	1/2" x 4" Cap Screw	0161020
8	1/2" Lock Nut	0133005
9	8-5/8" Riser Pipe	9362255
10	1" x 3" Nipple	0211035
11	1" x 90° Elbow	0241036
12	1" Hose Insert	0271025
13	1" Hose Clamp	0271013

ITEM	DESCRIPTION	PART #
14	1" Hose - 24" Long	1901957
15	1" Check Valve	0232404
16	1" Tee	0242005
17	1" Street Elbow	0241017
18	1" x 8" Nipple	0211010
19	1" x 1/4" Reducing Bushing	0244007
20	3/4" x 3" Cap Screw	0161007
	5/8" x 3" Cap Screw	0161010
	7/8" x 3" Cap Screw	0161424
21	3/4" Lock Nut	0133011
	5/8" Lock Nut	0133010
	7/8" Hex Nut	0131005
22	8-5/8" Chem. Riser	9362397
	10" Chem. Riser	9362403
23	Chem. Check Valve	0994425
24	Air Relief Valve Kit	0994428
25	1/2" x 2-1/2" Cap Screw	0161023
26	Shoulder Washer	9330220
27	7/8" Lock Washer	0141069
28	3/4" x 1" Bell Reducer	0243005
29	3/4" x 2" Nipple	0211014

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Functional Area	Assembly / Part	Rev# 01-19
Ditch Feed	12" and 14" Suction Inlet	

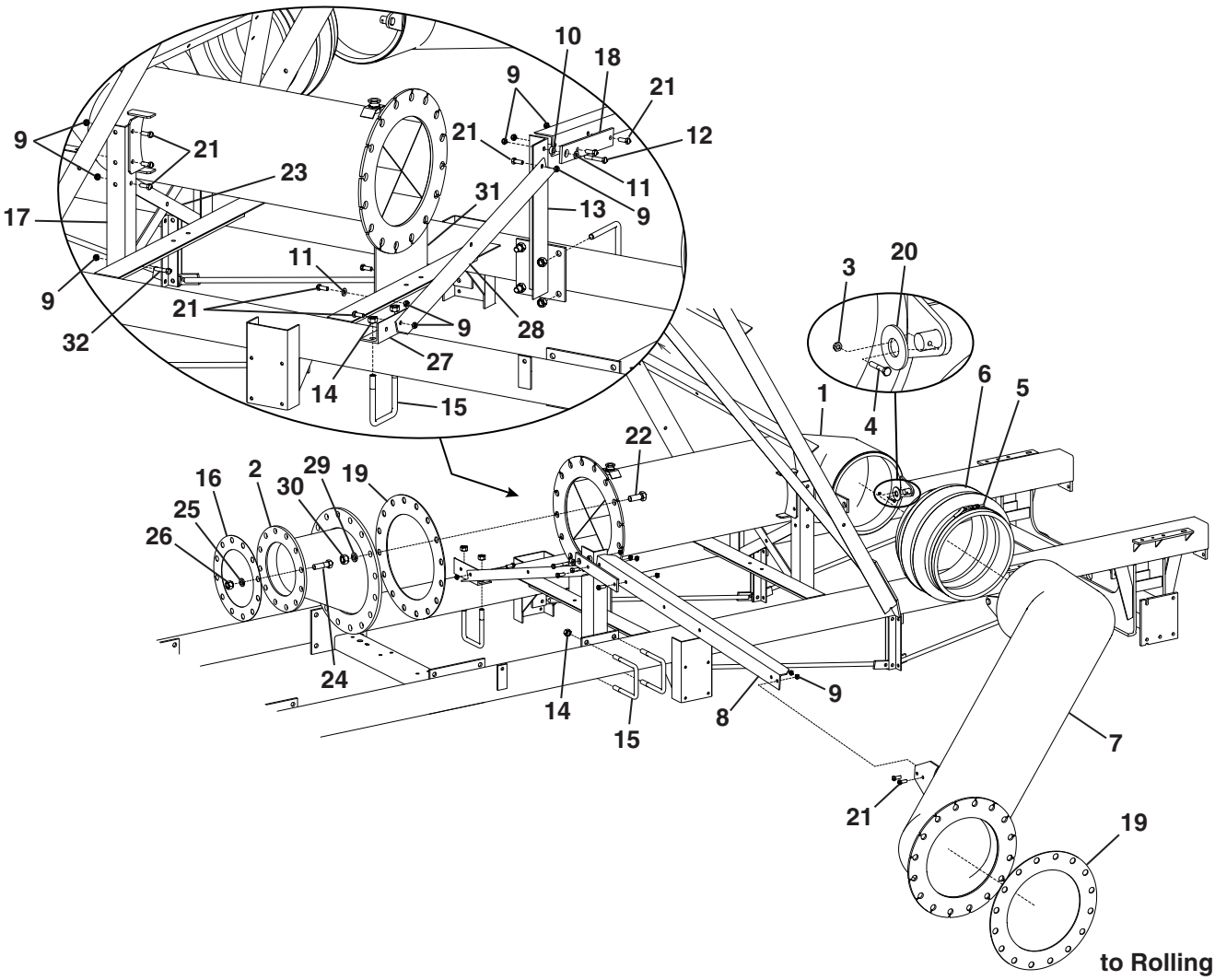


ITEM	DESCRIPTION	PART #
1	12" Horizontal Suction	9362229
2	14" to 10" Horizontal Suction	9362363
3	12" to 6" Flanged Eccentric	0995489
	12" to 8" Flanged Eccentric	0995488
	12" to 10" Flanged Eccentric	0995487
4	1/4" x 1-1/2" Cap Screw - Stainless Steel	0164163
5	12" Boot Clamp (2 ea. 6")	0991186
	14" Boot Clamp (2 ea. 7")	0995627
6	12" Rubber Boot	1730700
	14" Rubber Boot	1731513
7	12" Suction Z Pipe	9362315
	14" Suction Z Pipe	9362366
8	3/4" Lock Nut	0133011
	5/8" Lock Nut	0133010
9	3/4" x 1-3/4" Cap Screw	0161139
10	Suction Inlet Support	9362290
11	1/2" Lock Nut	0133005
12	Flex Joint Bushing	1730525
13	1/2" Flat Washer	0142025
14	1/2" x 3" Cap Screw	0161136
15	Inlet Support Bracket - Suction Inlet	9362292
16	3/4" Hex Nut	0131008
17	3/4" x 7" U-Bolt	0176048
18	6" Rubber Gasket	0996639
	8" Rubber Gasket	0996640
	10" Rubber Gasket	0996641
19	Suction Support Angle	9364867
	Suction Support Angle (Short)	9364868

ITEM	DESCRIPTION	PART #
20	Hinge Bracket	9362289
21	12" Rubber Gasket	1730648
	14" Rubber Gasket	1780739
22	1" Flat Washer	0142020
23	1/2" x 1-1/4" Cap Screw	0161027
24	3/4" x 3" Cap Screw	0161007
	5/8" x 3" Cap Screw	0161010
25	7/8" x 3" Cap Screw	0161424
26	7/8" Lock Washer	0141069
27	7/8" Hex Nut	0131005
28	6" Dia. x 9.28" Long Spool (for 6" Suctions only)	9362609
	6" Dia. x 5.38" Long Spool (for some 12" Suctions)	9364609
	8" Dia. x 6.00" Long Spool (for some 8" Suctions)	9363787
	10" Dia. x 9.03" Long Spool (for some 10" Suctions)	9363930
	10" Dia. x 19.25" Long Spool (for some 10" Suctions)	9364946
	10" Dia. x 6.25" Long Spool (for some 10" Suctions)	9364948
29	1/4" Lock Nut - Stainless Steel	0133050
30	12" Dia. x 19.69" Long Spool	1731520
	12" Dia. x 9.84" Long Spool	1731531
31	Cross Brace Angle	9364869
32	Inlet Support Angle	9364870
33	1/2" x 2" Cap Screw	0161024
34	1/2" x 1-1/4" Cap Screw	0161420
35	Inlet Support Bracket (Caterpillar ONLY)	9364950

* Suction Inlet Support Kit (incl. Item 19.....9364867).... KA02730
* Suction Inlet Support Kit (incl. Item 19.....9364868).... KA02729

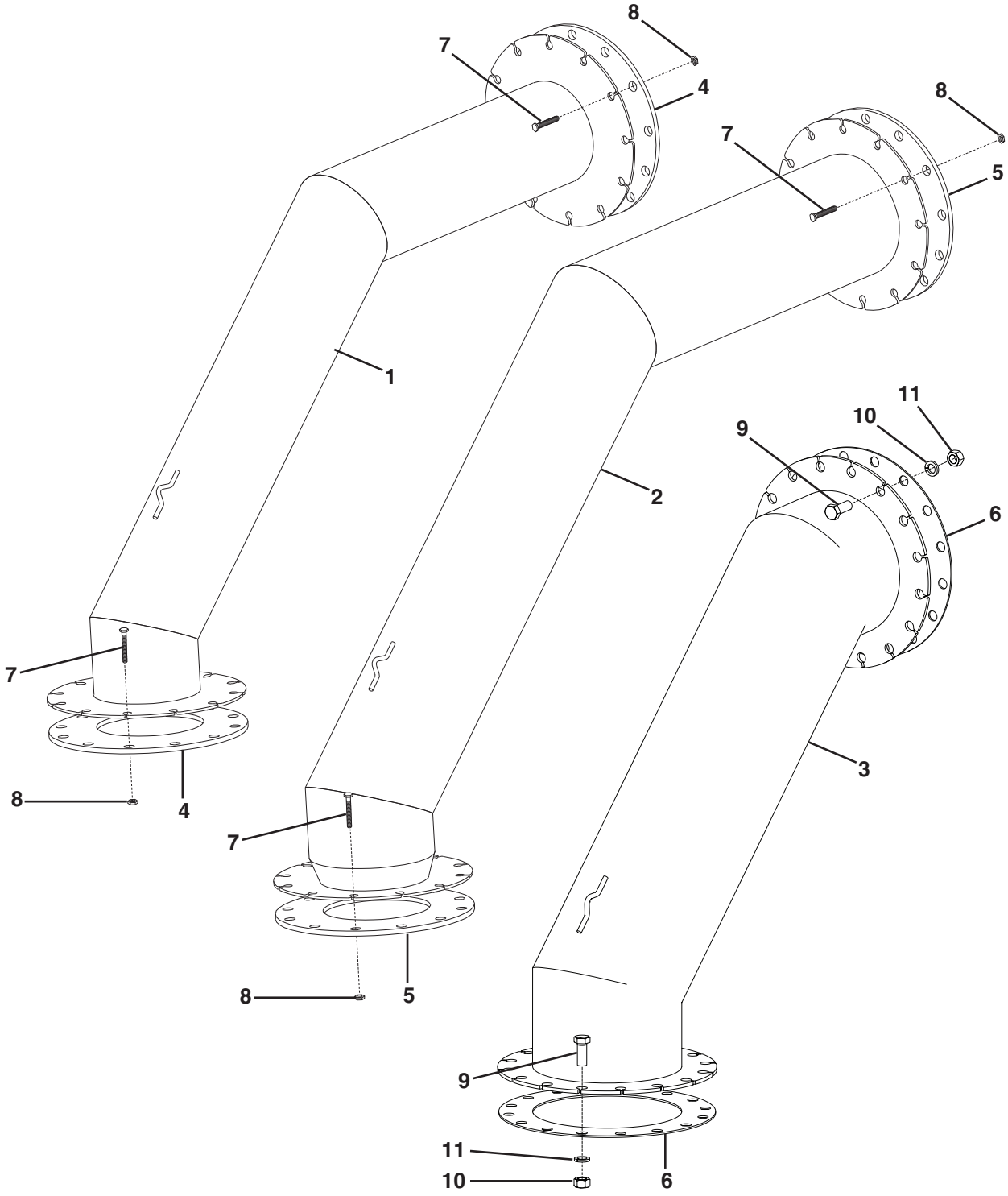
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ITEM	DESCRIPTION	PART #
1	16" Horizontal Suction	9364691
2	16" x 10" Flanged Eccentric	0999950
3	1/4" Lock Nut - Stainless Steel	0133050
4	1/4" x 1-1/2" Cap Screw - Stainless Steel	0164163
5	16" Boot Clamp (2 ea. 8")	0991147
6	16" Rubber Boot	0999951
7	16" Suction Z Pipe	9364684
8	Suction Inlet Support	9362290
9	1/2" Lock Nut	0133005
10	Flex Joint Bushing	1730525
11	1/2" Flat Washer	0142025
12	1/2" x 3" Cap Screw	0161136
13	Inlet Support Bracket - Suction Inlet	9362292
14	3/4" Hex Nut	0131008
15	3/4" x 7" U-Bolt	0176048
16	10" Rubber Gasket	0996641
17	Base Support Angle	9364692
18	Hinge Bracket	9362289
19	16" Rubber Gasket	0999952
20	1" Flat Washer	0142020
21	1/2" x 1-1/4" Cap Screw	0161027
22	1" x 2-1/2" Cap Screw	0161174
23	Brace Strap	9364696
24	7/8" x 3" Cap Screw	0161424
25	7/8" Lock Washer	0141069
26	7/8" Hex Nut	0131005
27	Brace Bracket	9364693
28	1-3/4" x 1-3/4" Angle Brace	9362605
29	1" Lock Washer	0141010
30	1" Hex Nut	0131004
31	Suction Support Plate	9364695
32	1/2" x 2" Cap Screw	0161024

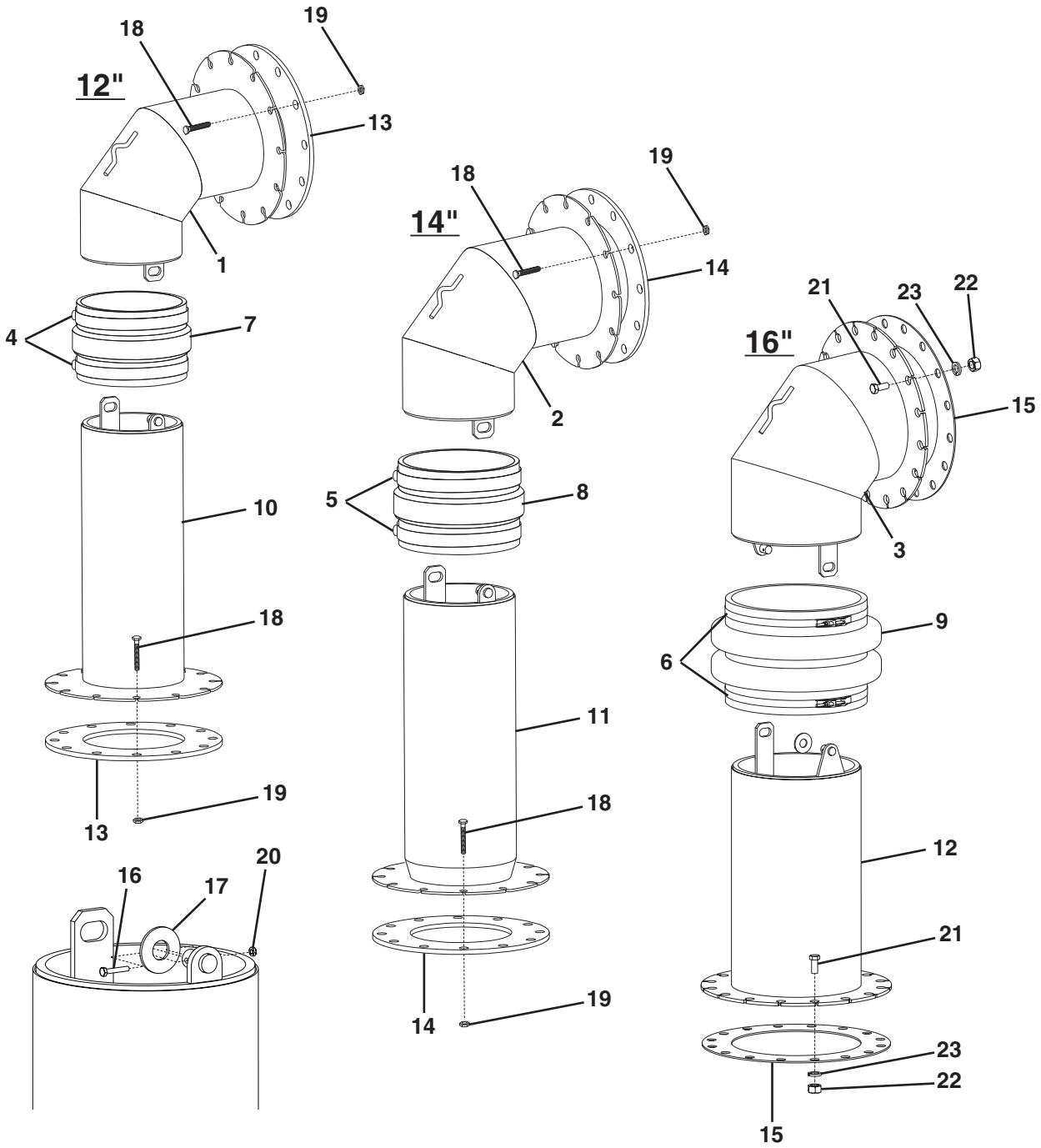
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Functional Area	Assembly / Part	Rev# 02-17
Ditch Feed	12", 14" & 16" Floating Inlet Pipe	



ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	12" Floating Inlet Pipe	9362381	7	3/4" x 1-3/4" Cap Screw	0161139
2	14" Floating Inlet Pipe	9362405	8	3/4" Lock Nut	0133011
3	16" Floating Inlet Pipe	9364686	9	1" x 2-1/2" Cap Screw	0161174
4	12" Rubber Gasket	1730648	10	1" Hex Nut	0131004
5	14" Rubber Gasket	1780739	11	1" Flat Washer	0141010
6	16" Rubber Gasket	0999952			

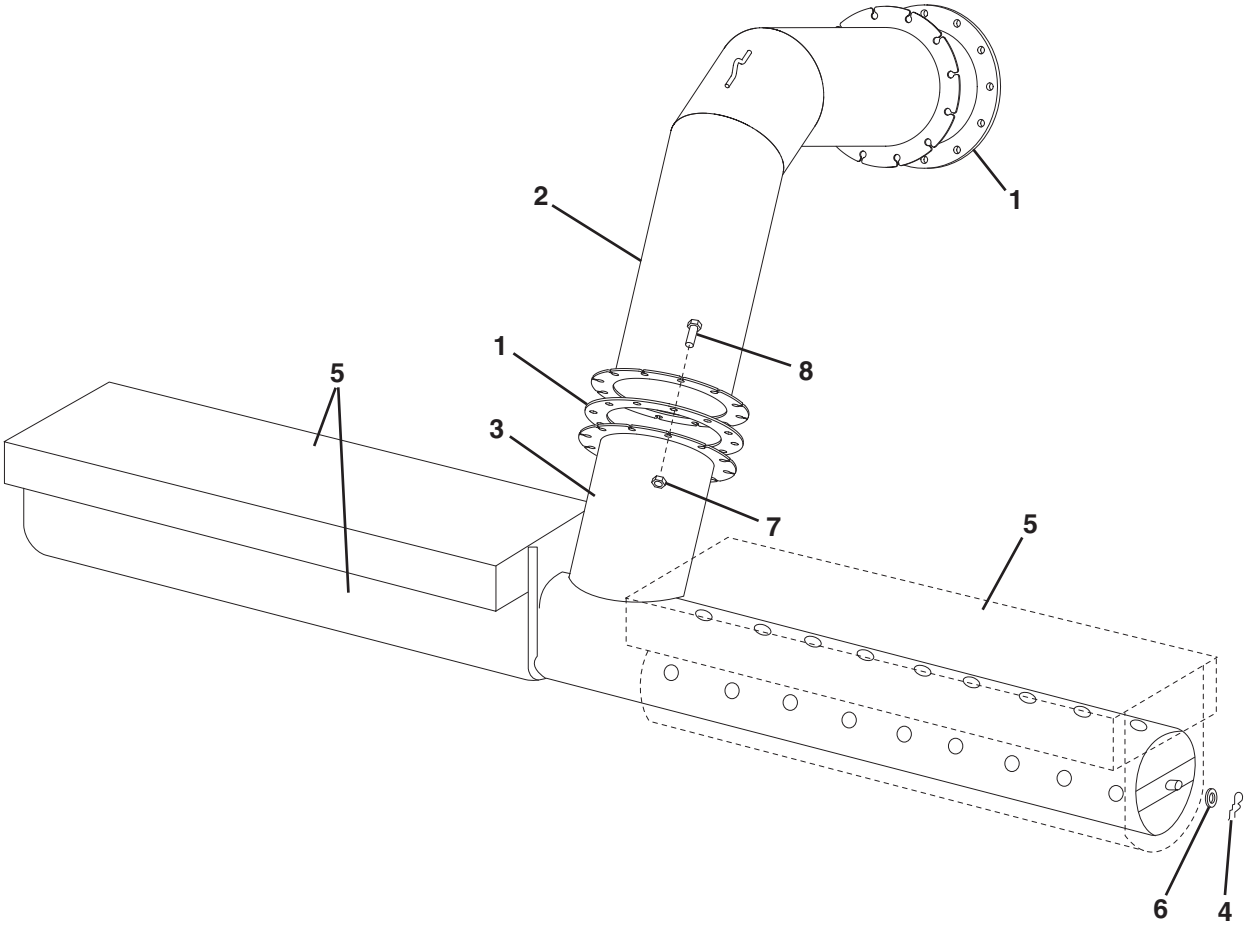
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ITEM	DESCRIPTION	PART #
1	12" Horizontal Suction Pipe	9362298
2	14" Horizontal Suction Pipe	9362409
3	16" Horizontal Suction Pipe	9364680
4	12" Flex Joint Clamp (2 ea. 6")	0991186
5	14" Flex Joint Clamp (2 ea. 7")	0995627
6	16" Flex Joint Clamp (2 ea. 8")	0991147
7	12" Suction Flex Boot	1730700
8	14" Suction Flex Boot	1731513
9	16" Suction Flex Boot	0999951
10	12" Vertical Suction Pipe	9330067
11	14" Vertical Suction Pipe	9330069
12	16" Vertical Suction Pipe	9364716

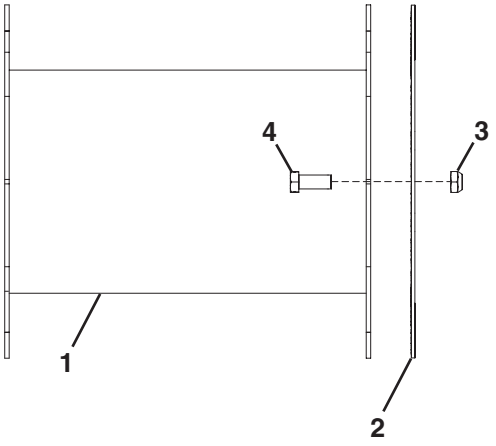
ITEM	DESCRIPTION	PART #
13	12" Rubber Gasket	1730648
14	14" Rubber Gasket	1780739
15	16" Rubber Gasket	0999952
16	1/4" x 1-1/2" Cap Screw - Stainless Steel	0164163
17	1" Flat Washer	0142020
18	3/4" x 1-3/4" Cap Screw	0161139
19	3/4" Lock Nut	0133011
20	1/4" Lock Nut - Stainless Steel	0133050
21	1" x 2-1/2" Cap Screw	0161174
22	1" Hex Nut	0131004
23	1" Lock Washer	0141010

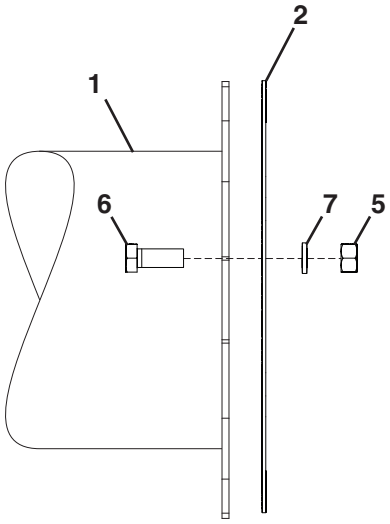
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ITEM	DESCRIPTION	PART #
1	12" Rubber Gasket	1730648
	14" Rubber Gasket	1780739
2	12" Suction Inlet Assembly	9363774
	14" Suction Inlet Assembly	9362407
3	12" Suction Tube Inlet	1730669
	14" Suction Tube Inlet	1731504
4	5/32" Hair Pin	0181034
5	14" Float	1731500
6	3/4" Flat Washer	0142027
7	3/4" Lock Nut	0133011
8	3/4" x 1-3/4" Cap Screw	0161139

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16" Spool ONLY

ITEM	DESCRIPTION	PART #
1	12” x 9.84” Inlet Spool	1731531
	12” x 19.69” Inlet Spool	1731520
	12” x 39.38” Inlet Spool	1731518
	14” x 9.84” Inlet Spool	1731535
	14” x 19.69” Inlet Spool	1731539
	14” x 39.38” Inlet Spool	1731543
	16" x 9.84" Inlet Spool	9364721
	16" x 19.69" Inlet Spool	9364722
	16" x 39.38" Inlet Spool	9364642
2	12” Rubber Gasket	1730648
	14” Rubber Gasket	1780739
	16" Rubber Gasket	0999952*
3	3/4” Lock Nut	0133011
4	3/4” x 1-3/4” Cap Screw	0161139
5	1" Hex Nut	0131004*
6	1" x 2-1/2" Cap Screw	0161174*
7	1" Lock Washer	0141010*

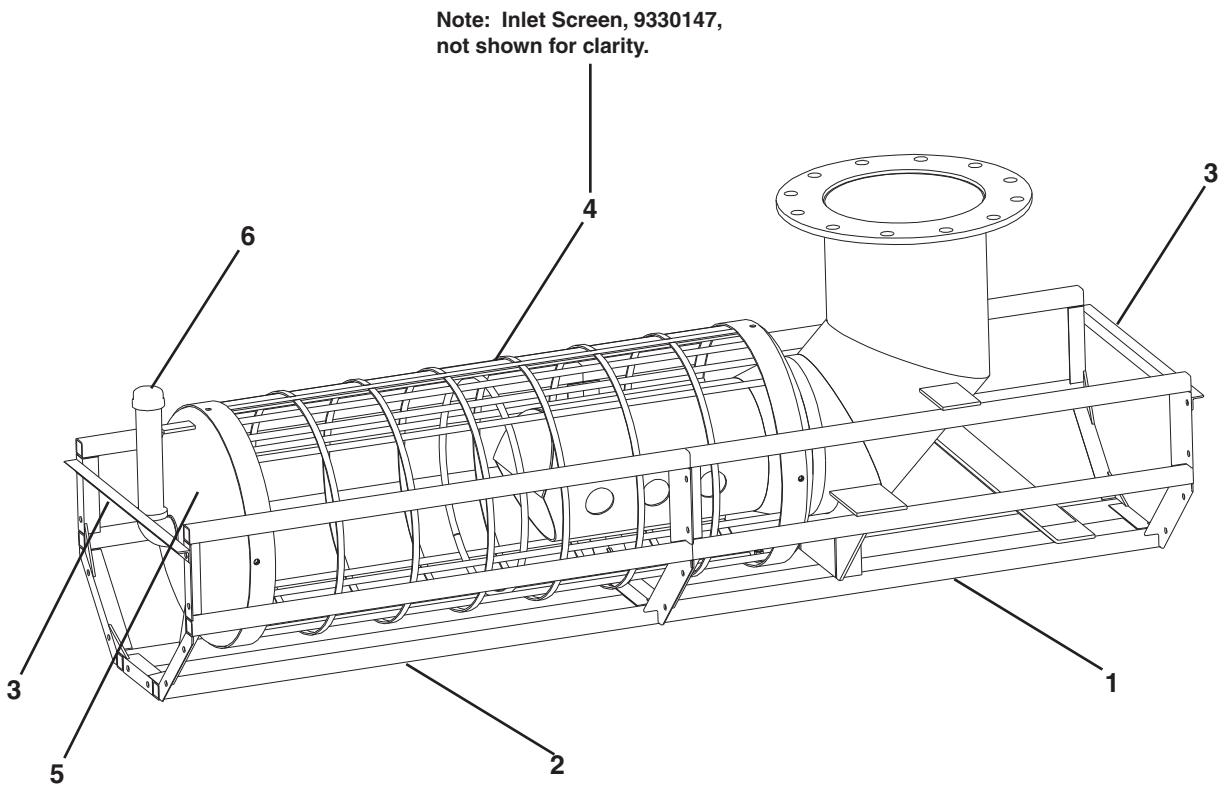
*** NOTE: 16" Spool Only.**

WARNING:

1. **Maximum recommended Vertical Spools is 1 x 19.69".**

2. **Maximum recommended Horizontal Spools is 1 x 39.38" for Rolling Inlets.**
   Maximum recommended Horizontal Spools is 2 x 39.38" for Floating Inlets.

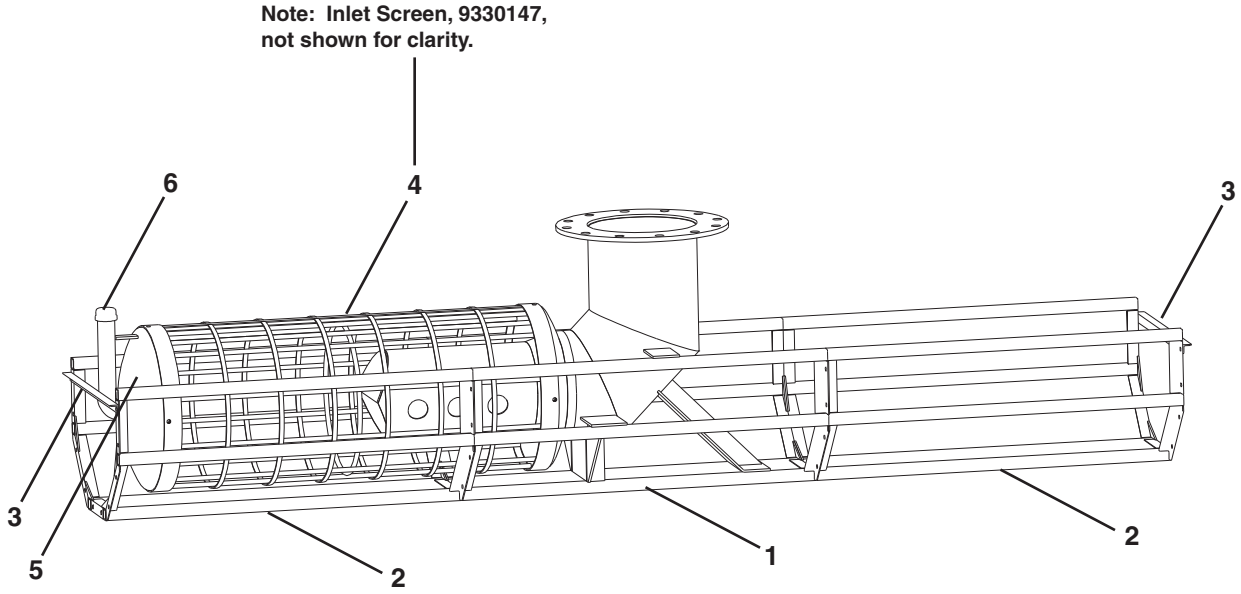
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(Non Self-Cleaning Inlet Shown Above)

ITEM	DESCRIPTION	PART #
1	Center Frame Assembly	9330108
2	Frame Section	9330093
3	Top Angle	9330088
4	Inlet Frame Assembly (w/Screen)	9330153
	Inlet Screen Only	9330147
5	Outer End Inlet Bell Assembly	9330070
6	1-1/2" Pipe Cap	0246183
	COMPLETE Single Floating Non-Self Cleaning Inlet Assm.	0995496
	COMPLETE Single Floating Self Cleaning Inlet Assm.	0995498

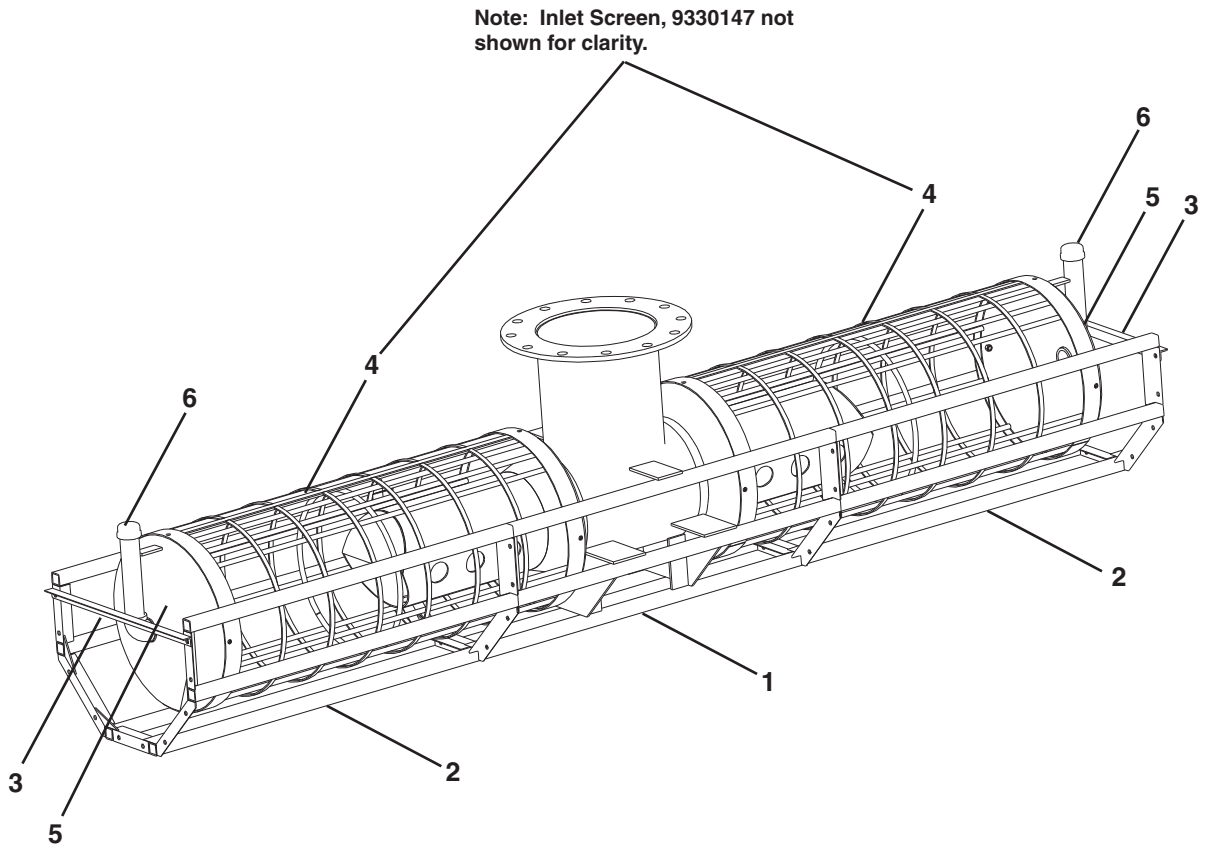
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(Non Self-Cleaning Inlet Shown Above)

ITEM	DESCRIPTION	PART #
1	Center Frame Assembly	9330108
2	Frame Section	9330093
3	Top Angle	9330088
4	Inlet Frame Assembly (w/Screen)	9330153
	Inlet Screen Only	9330147
5	Outer End Inlet Bell Assembly	9330070
6	1-1/2" Pipe Cap	0246183
	COMPLETE Single Rolling Non-Self Cleaning Inlet Assm.	0995495
	COMPLETE Single Rolling Self Cleaning Assm.	0995497

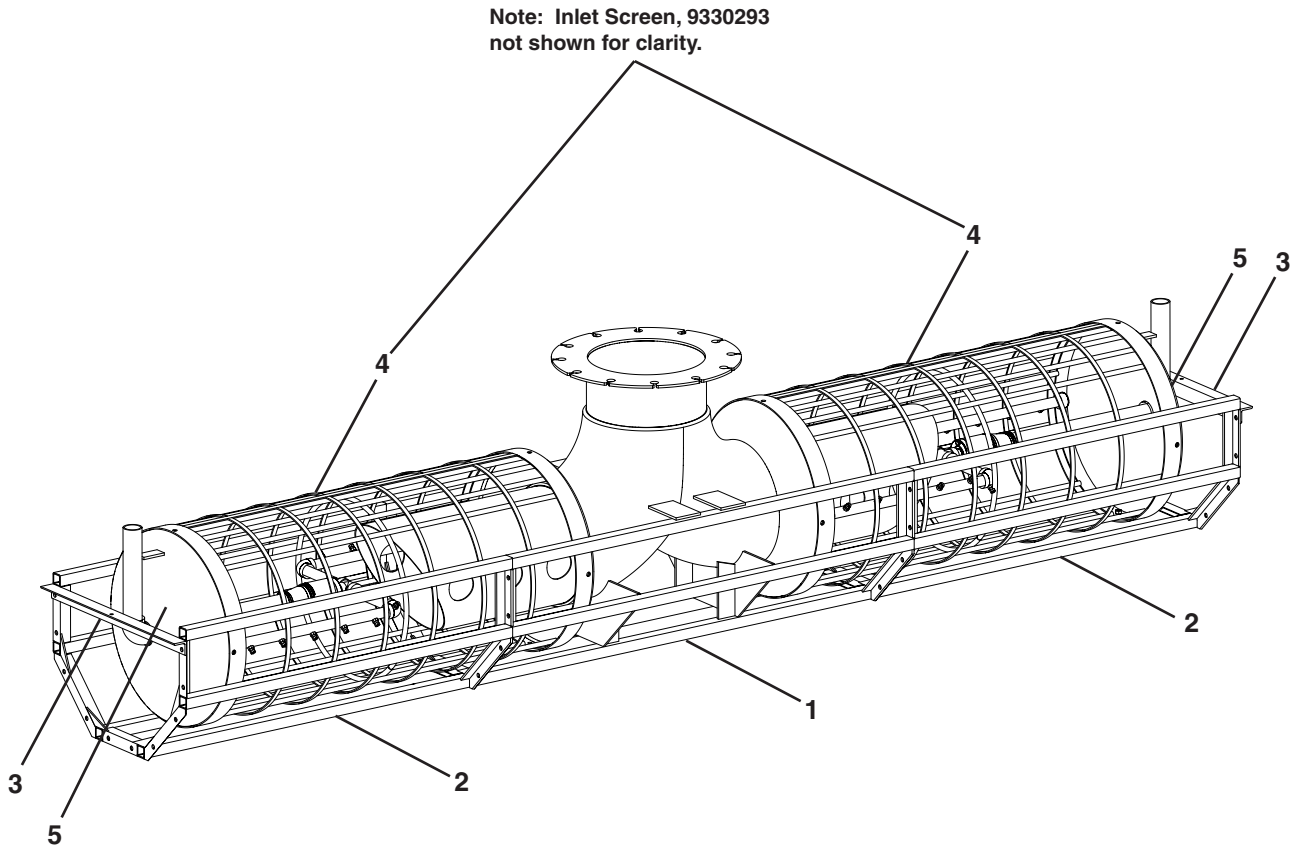
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(Non Self-Cleaning Inlet Shown Above)

ITEM	DESCRIPTION	PART #
1	Center Frame Assembly (Double)	9330109
2	Frame Section	9330093
3	Top Angle	9330088
4	Inlet Frame Assembly (w/Screen)	9330153
	Inlet Screen Only	9330147
5	Outer End Inlet Bell Assembly	9330070
6	1-1/2" Pipe Cap	0246183
	COMPLETE "T" - Double Rolling/Floating Non-Self Cleaning Inlet Assm.	0995499
	COMPLETE "T" - Double Rolling/Floating Self Cleaning Inlet Assm	0995500

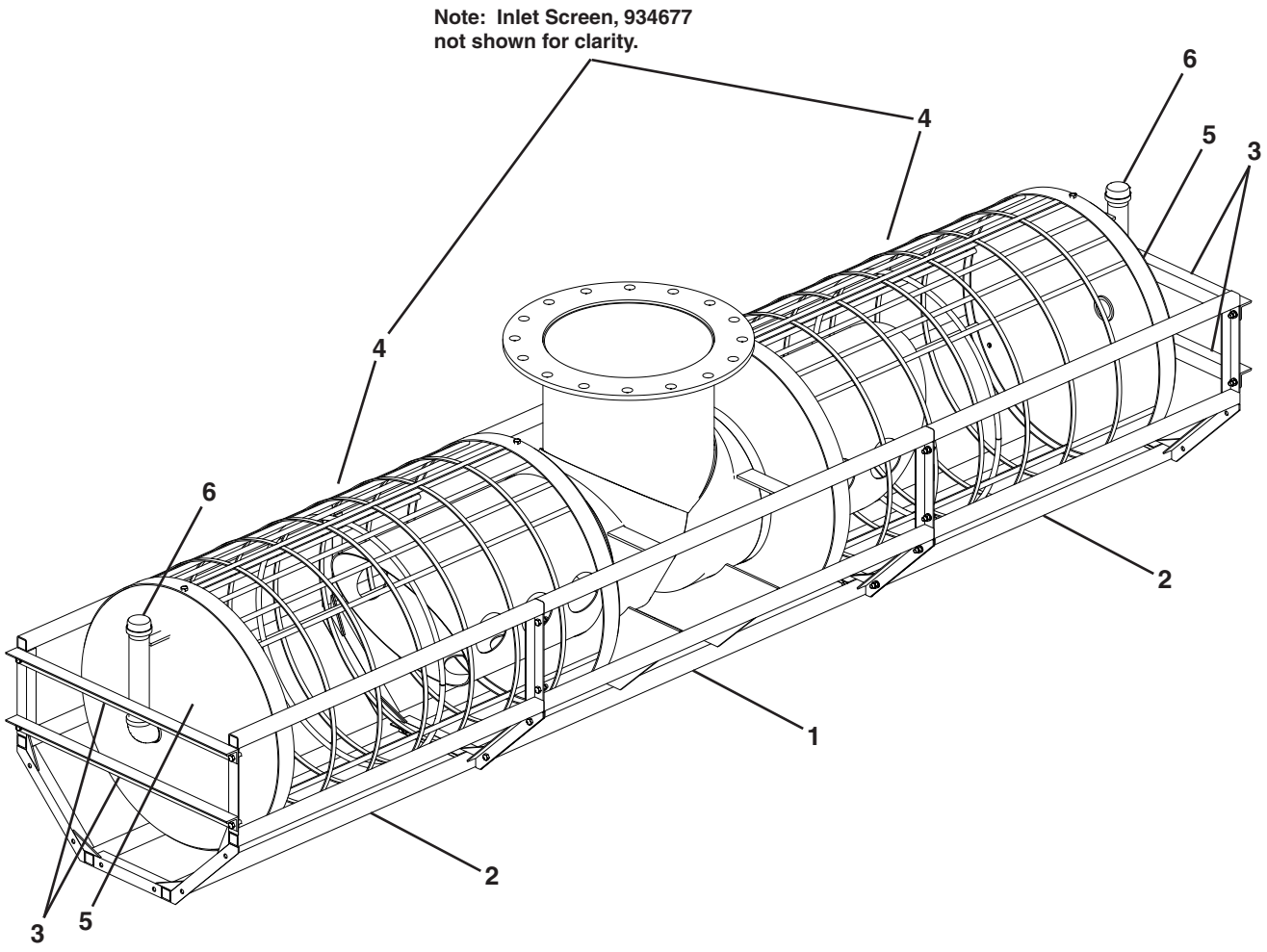
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(Self-Cleaning Inlet Shown Above)

ITEM	DESCRIPTION	PART #
1	Center Frame Assembly (Double)	9330286
2	Frame Section	9330093
3	Top Angle	9330088
4	Inlet Frame Assembly (w/Screen)	9330294
	Inlet Screen Only	9330293
5	Outer End Inlet Bell Assembly	9330288
	COMPLETE "Y" - Double Rolling/Floating Non-Self Cleaning Inlet Assm.	0998157
	COMPLETE "Y" - Double Rolling/Floating Self Cleaning Inlet Assm.	0997965

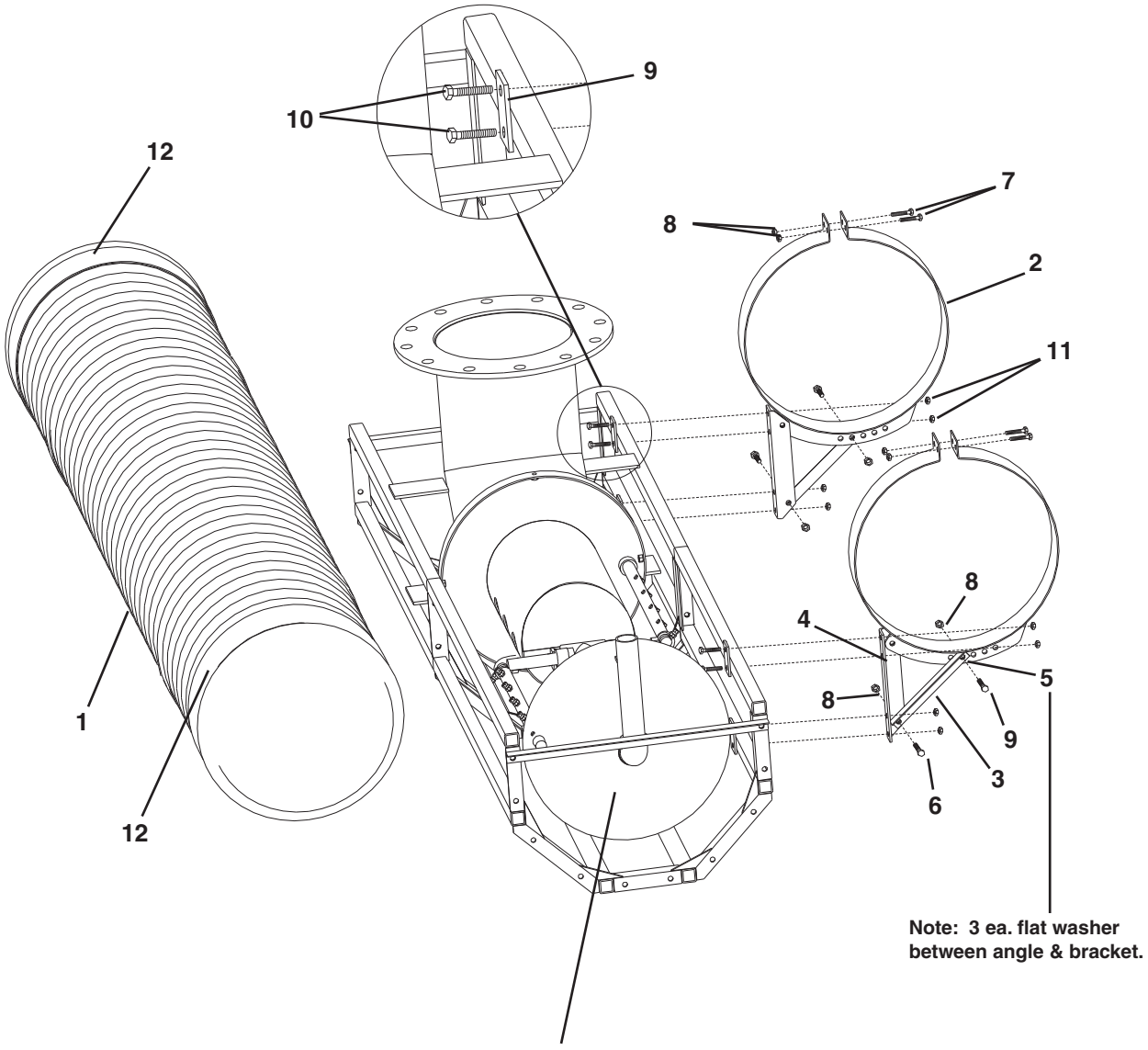
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(Non Self-Cleaning Inlet Shown Above)

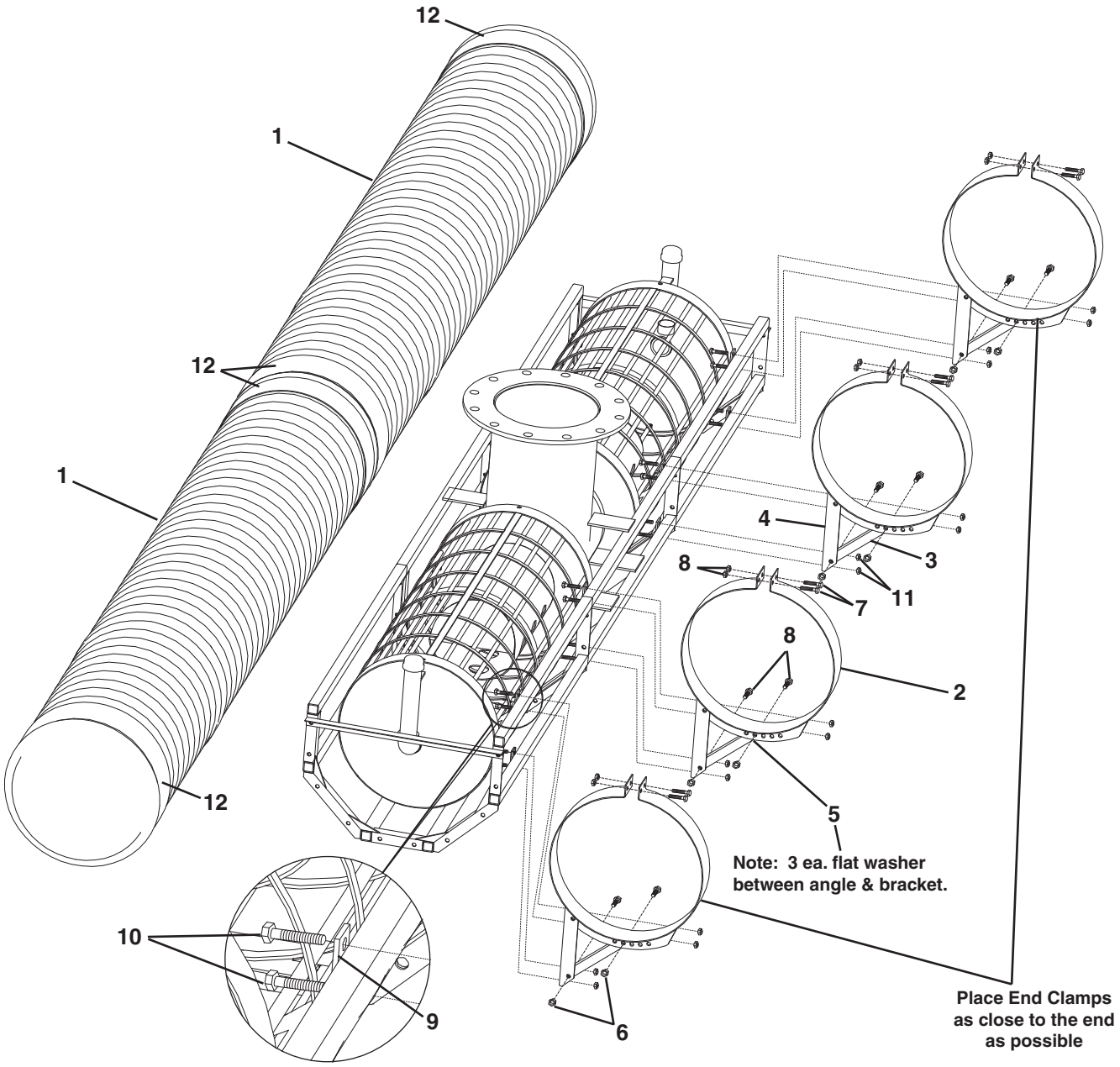
ITEM	DESCRIPTION	PART #
1	Center Frame Assembly	9364668
2	Frame Section	9364669
3	Top Angle	9364672
4	Inlet Frame Assembly (w/Screen)	9364678
	Inlet Screen Only	9364677
5	Outer End Inlet Bell Assembly	9364671
6	1-1/2" Pipe Cap	0246183
	COMPLETE 16" - Double Rolling/Floating Non-Self Cleaning Inlet Assm.	0999966
	COMPLETE 16" - Double Rolling/Floating Self Cleaning Inlet Assm	0999943

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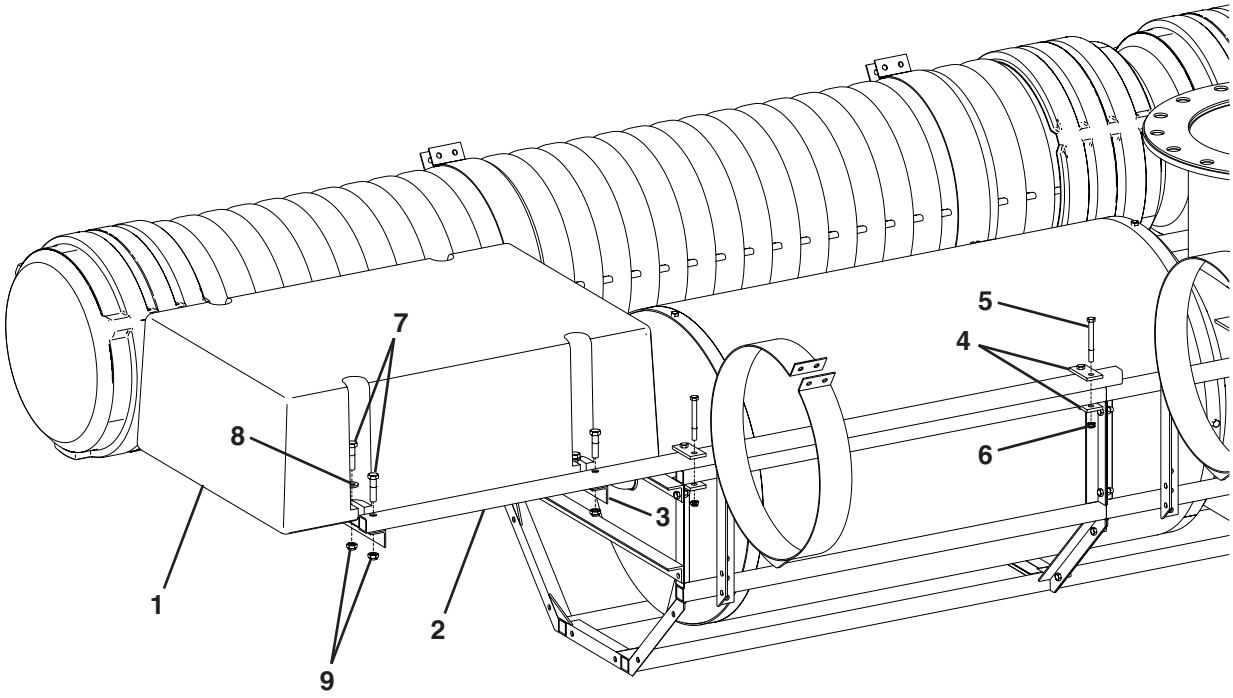
ITEM	DESCRIPTION	PART #
1	Float Assembly (96")	9330139
2	Float Strap Assembly	9330105
3	Frame Adjustment Link	9330095
4	Frame Support Angle	9330096
5	3/8" Flat Washer	0142031
6	3/8" x 1" Cap Screw	0161045
7	3/8" x 2-1/2" Cap Screw	0161039
8	3/8" Lock Nut	0133006
9	Support Tab	9330094
10	3/8" x 2-1/2" Cap Screw	0161039
11	3/8" Lock Nut	0133006
12	8" Ideal Band	0271024

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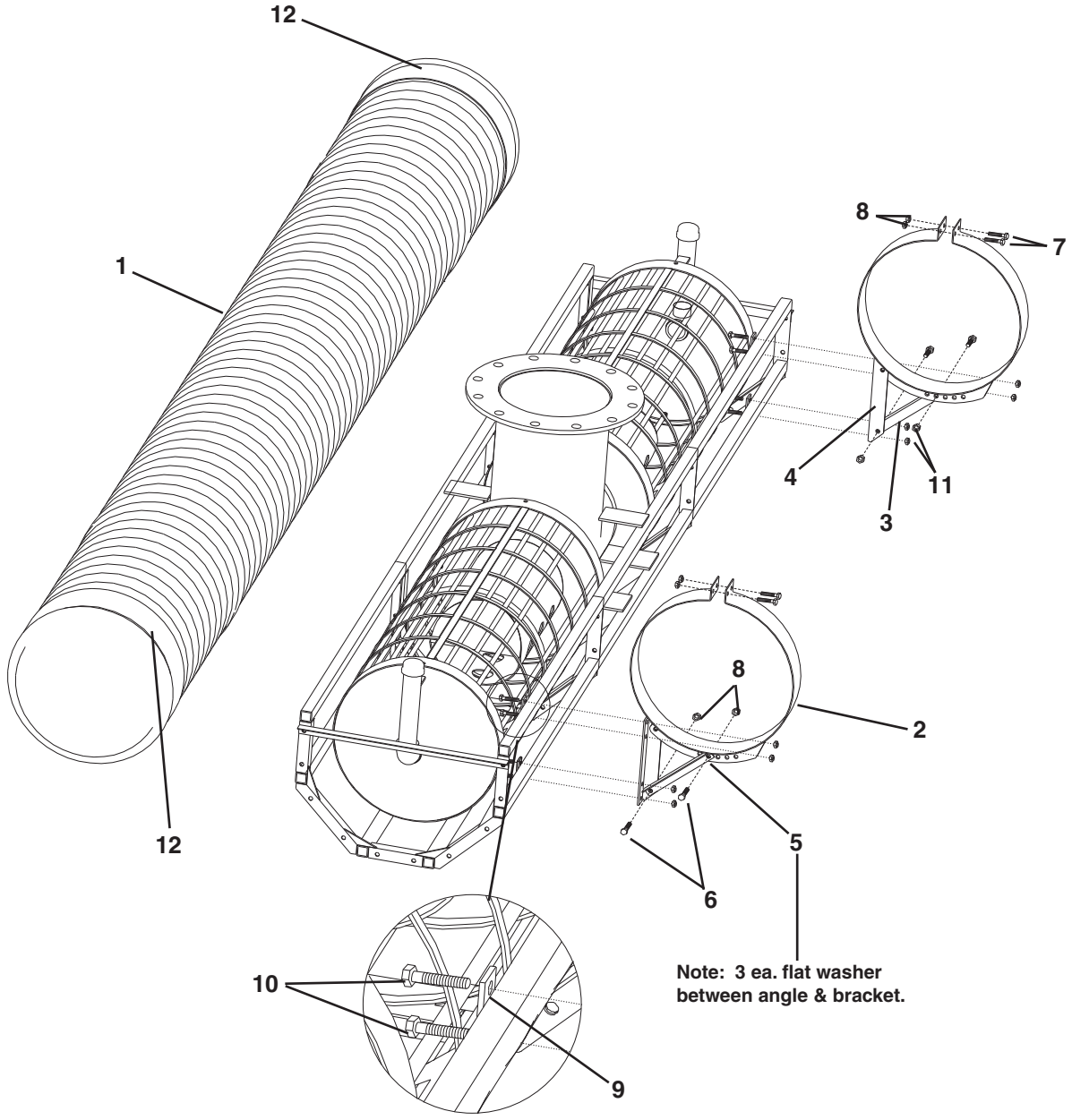
ITEM	DESCRIPTION	PART #
1	Float Assembly (96")	9330139
2	Float Strap Assembly	9330105
3	Frame Adjustment Link	9330095
4	Frame Support Angle	9330096
	Frame Support Angle (for 16" Inlet)	9364723
5	3/8" Flat Washer	0142031
6	3/8" x 1" Cap Screw	0161045
7	3/8" x 2-1/2" Cap Screw	0161039
8	3/8" Lock Nut	0133006
9	Support Tab	9330094
10	3/8" x 2-1/2" Cap Screw	0161039
11	3/8" Lock Nut	0133006
12	8" Ideal Band	0271024

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ITEM	DESCRIPTION	PART #
1	24" x 36" x 12" Float	0999957
2	Float Mount Tube	9364711
3	Float Mount Angle	9364712
4	Support Tab	9330094
5	3/8" x 3-1/2" Cap Screw	0161150
6	3/8" Lock Nut	0133006
7	1/2" x 2" Cap Screw	0161024
8	1/2" Flat Washer	0142025
9	1/2" Lock Nut	0133005

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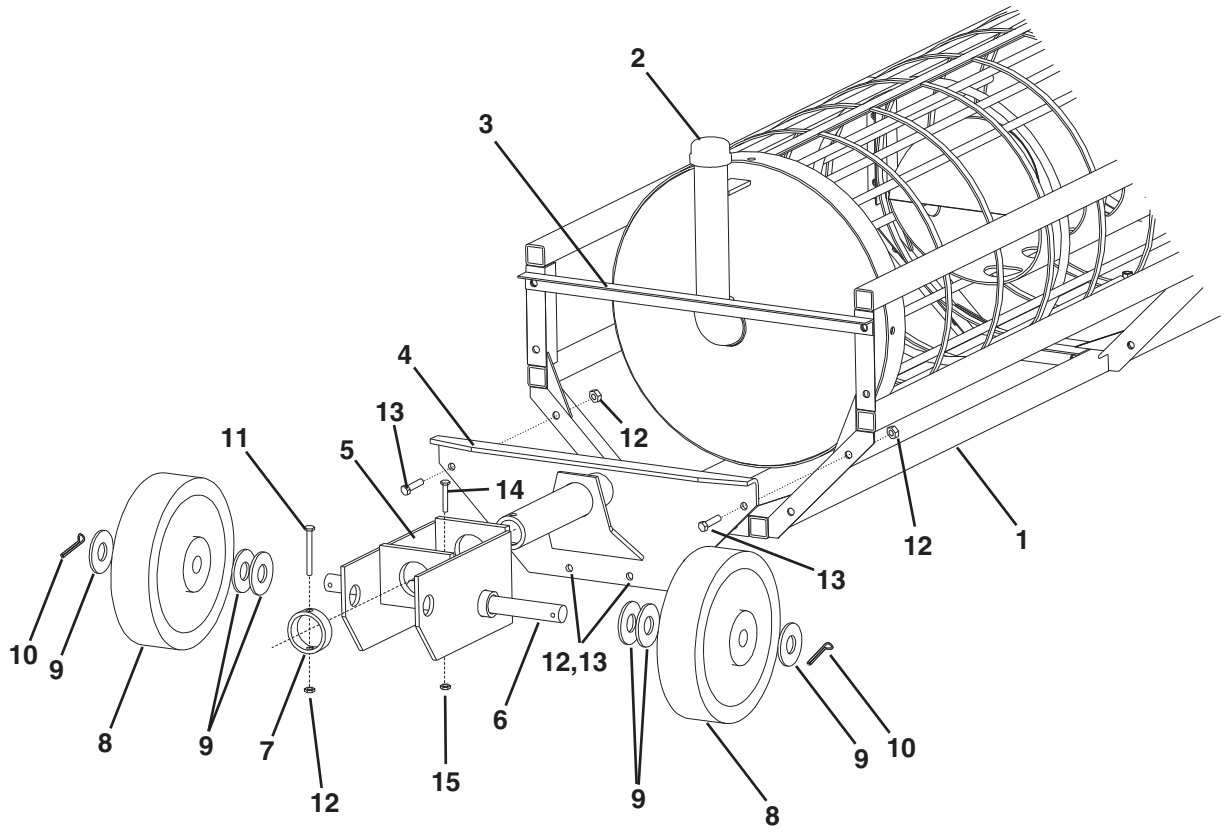
ITEM	DESCRIPTION	PART #
1	Float Assembly (144")	9330140
2	Float Strap Assembly	9330105
3	Frame Adjustment Link	9330095
4	Frame Support Angle	9330096
5	3/8" Flat Washer	0142031
6	3/8" x 1" Cap Screw	0161045
7	3/8" x 2-1/2" Cap Screw	0161039
8	3/8" Lock Nut	0133006
9	Support Tab	9330094
10	3/8" x 2-1/2" Cap Screw	0161039
11	3/8" Lock Nut	0133006
12	8" Ideal Band	0271024

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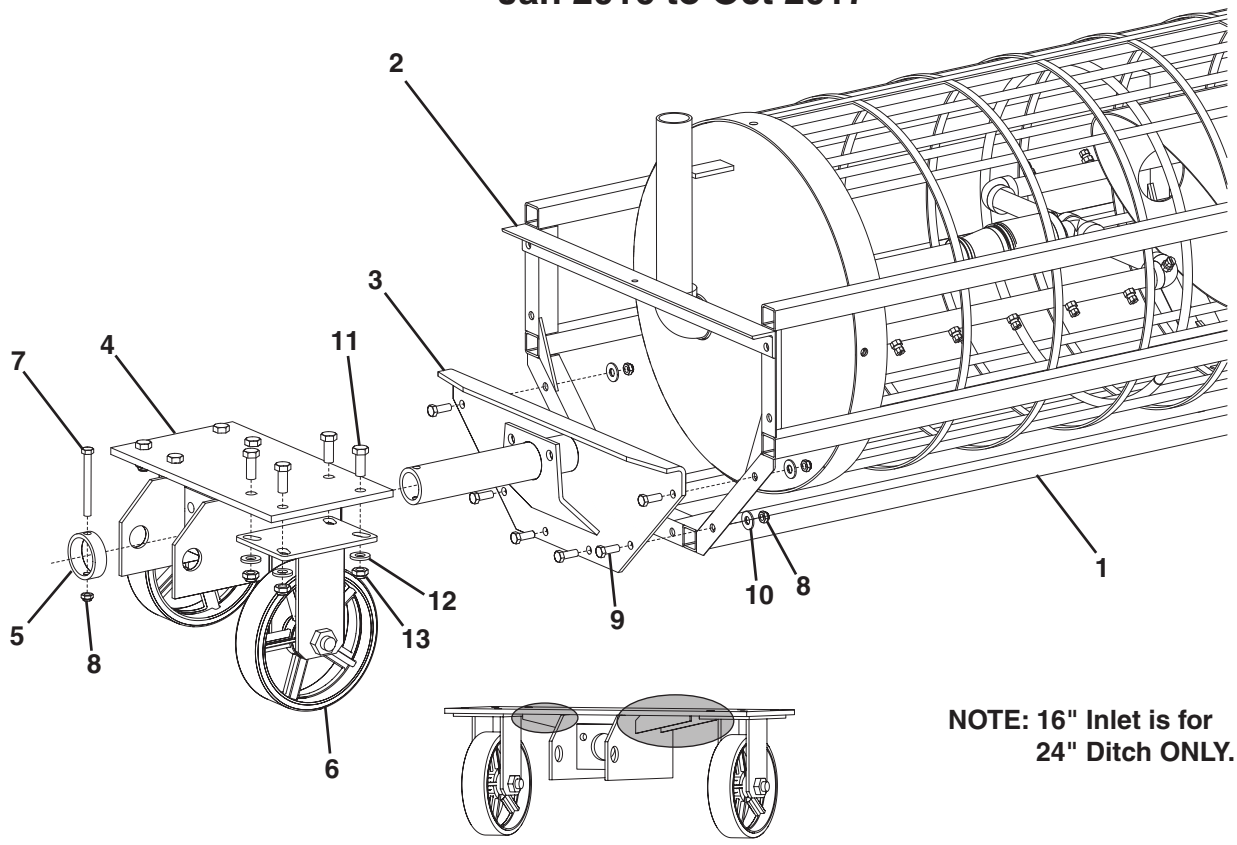
PRIOR to January 2011



ITEM	DESCRIPTION	PART #
1	Frame Section	9330093
2	1-1/2" Pipe Cap	0246183
3	Top Angle	9330088
4	Swivel Axle Mounting Assembly	9330083
5	12" Swivel Axle Assembly	9330110
	24" Swivel Axle Assembly	9330079
6	12" Bottom Ditch Axle	1731224
	24" Bottom Ditch Axle	9330151
7	Swivel Axle Retainer	9330087
8	Rotating Inlet Main Wheel (10")	1731241
9	1" Flat Washer	0142020
10	3/16" x 2" Cotter Pin	0151015
11	3/8" x 3-1/2" Cap Screw	0161150
12	3/8" Lock Nut	0133006
13	3/8" x 1" Cap Screw	0161045
14	5/16" x 2" Cap Screw	0161079
15	5/16" Lock Nut	0133007

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EFFECTIVE
Jan 2016 to Oct 2017



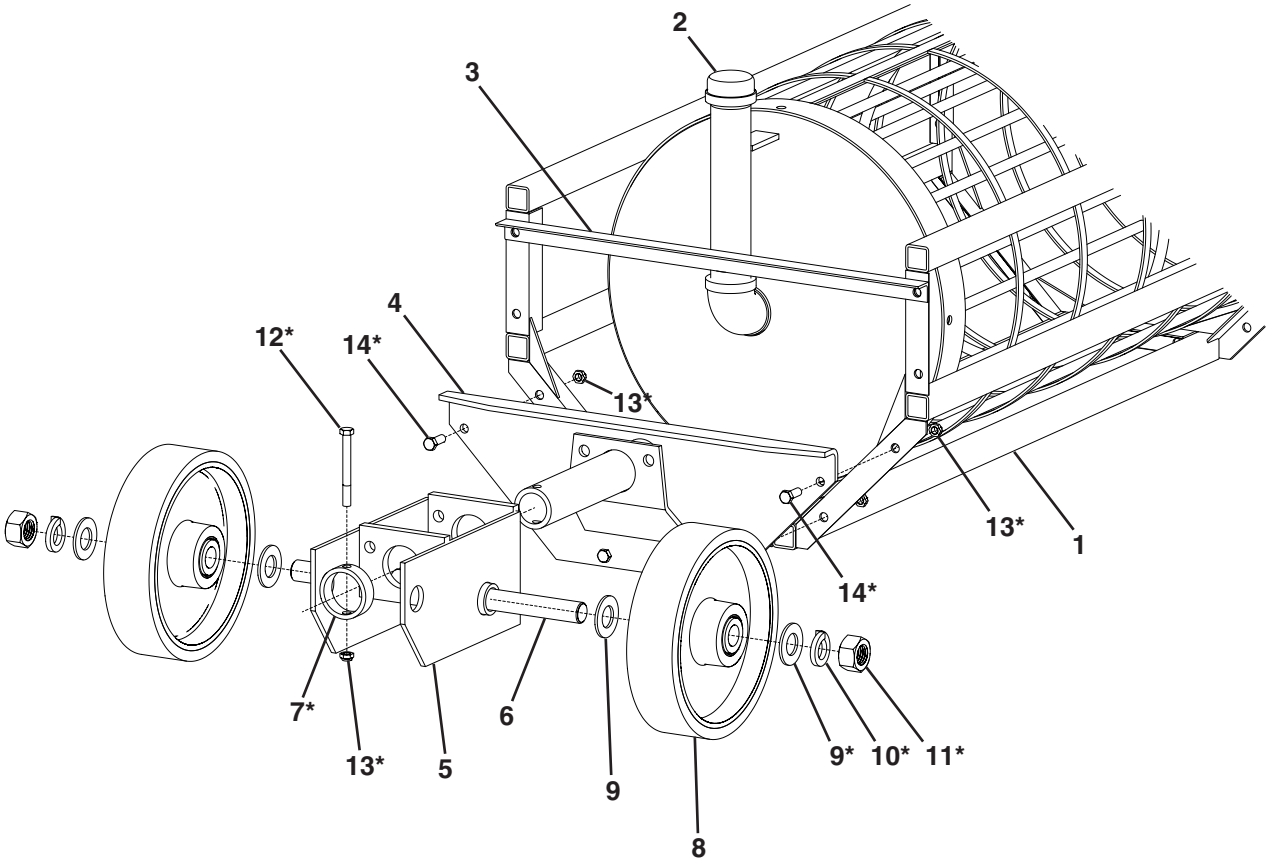
NOTE: 16" Inlet is for 24" Ditch ONLY.

*** 24" Swivel Axle Assembly**
(assm. contains 4 welded gussets)

ITEM	DESCRIPTION	PART #
1	Frame Section	9330093
2	Top Angle	9330088
3	Swivel Axle Mounting Assm.	9330083
	Swivel Axle Mounting Assm. (16" Inlet)	9364718
4	12" Swivel Axle Assm.	9330297
	24" Swivel Axle Assm.	9330299*
5	Swivel Axle Retainer	9330087
6	Caster Wheel Assm.	0998163
7	3/8" x 3-1/2" Cap Screw	0161150
8	3/8" Lock Nut	0133006
9	3/8" x 1" Cap Screw	0161045
10	3/8" Flat Washer	0142031
11	1/2" x 1-1/4" Cap Screw	0161027
12	1/2" Flat Washer	0142025
13	1/2" Lock Nut	0133005
	Ditch Feed Rolling Frame Hardware Kit	KA01433

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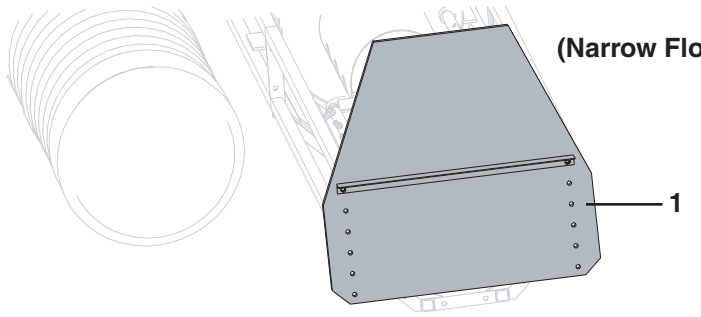
EFFECTIVE
October 2017



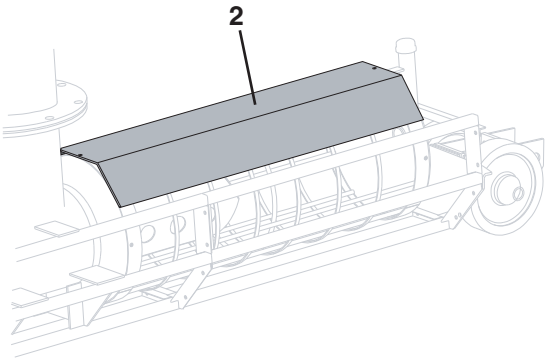
ITEM	DESCRIPTION	PART #
1	Frame Section	9330093
2	1-1/2" Pipe Cap	0246183
3	Top Angle	9330088
4	Swivel Axle Mounting Assembly	9330083
5	12" Swivel Axle Assembly	9330110
	24" Swivel Axle Assembly	9330079
6	1" Threaded Rod - S. S. 15-5/8" Long (for 12")	9364833
	1" Threaded Rod - S. S. 25-1/8" Long (for 24")	9364834
7	Swivel Axle Retainer	9330087
8	Rotating Inlet Main Wheel (10")	1731241
9	1" Flat Washer - Stainless Steel	0143068
10	1" Lock Washer - Stainless Steel	0141075
11	1" Hex Nut - Stainless Steel	0134070
12	3/8" x 3-1/2" Cap Screw	0161150
13	3/8" Lock Nut	0133006
14	3/8" x 1" Cap Screw	0161045

*12" Ditch Feed Rolling Frame Hardware Kit KA09225
*24" Ditch Feed Rolling Frame Hardware Kit KA09226

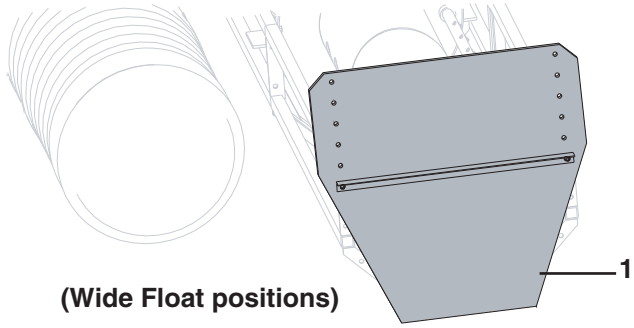
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(Narrow Float positions)



NOTE: Trash Guard orientation and position are determined by positon of Floats

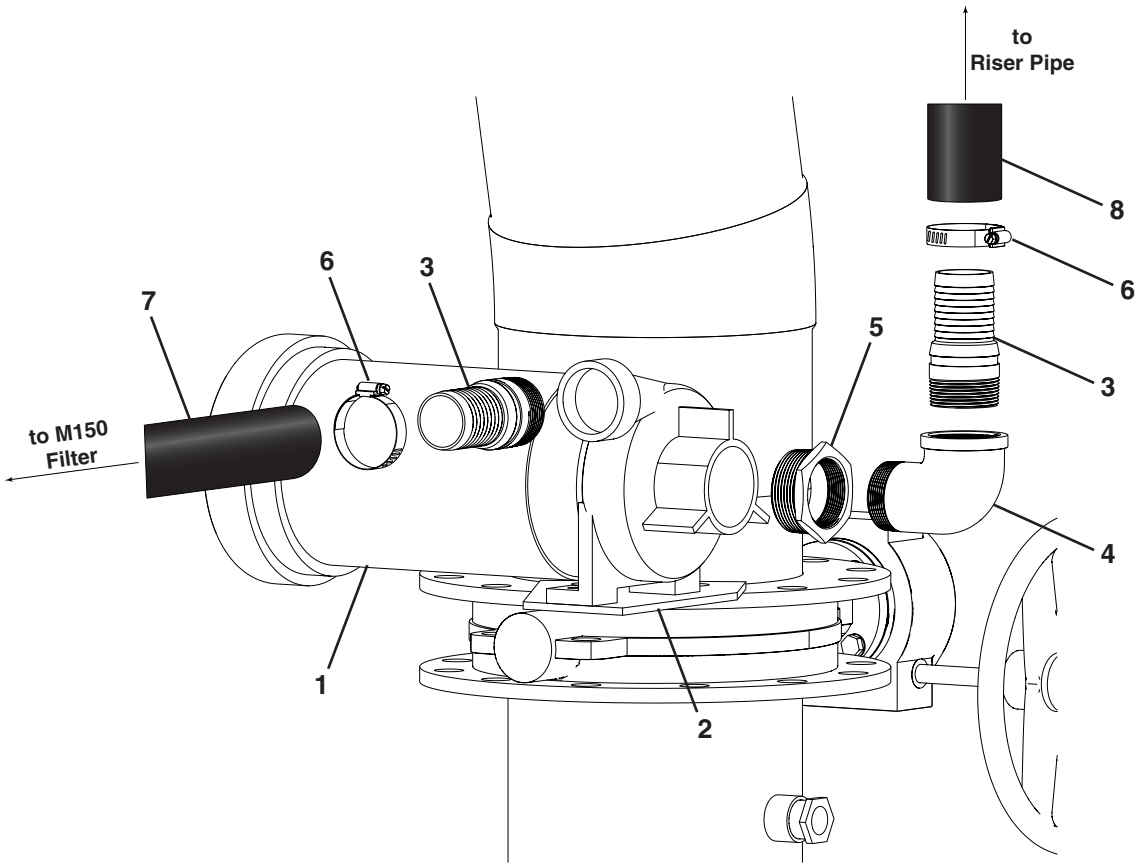


(Wide Float positions)

ITEM	DESCRIPTION	PART #
1	Inlet Trash Guard (Floating)	9330120
2	Inlet Shroud (Rolling)	9330119

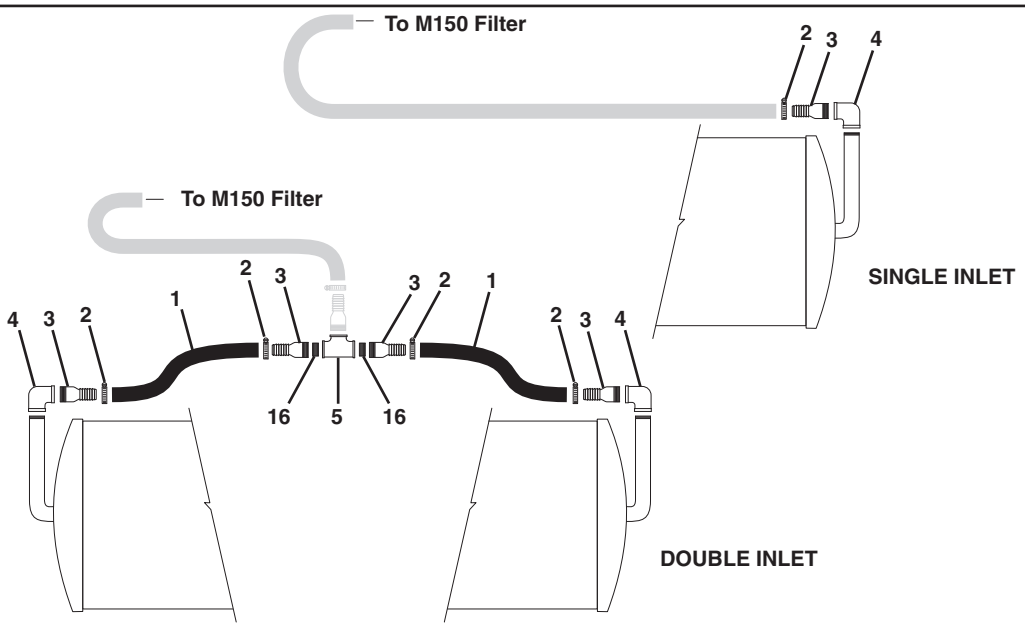
NOTE: Existing fasteners used for mounting of Trash Guard and Shroud

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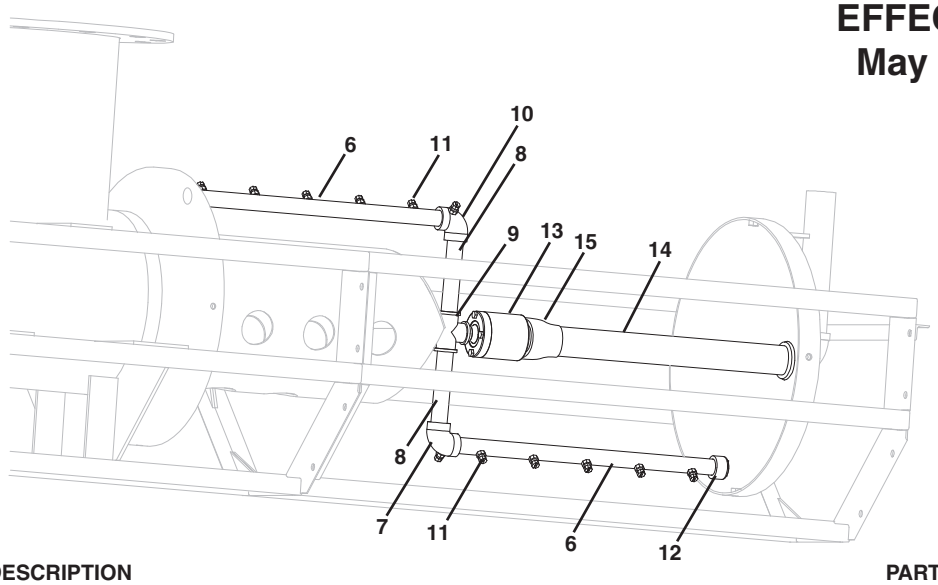


ITEM	DESCRIPTION	PART #
1	2HP Berkeley Pump w/ Baldor Motor	0992806
2	Booster Pump Mount Plate	9364694
3	2" Male Hose Barb	0271035
4	2" Street Elbow - Galvanized	0241049
5	2" x 1-1/2" Reducer Fitting - Galvanized	0244030
6	Hose Clamp - 2.69" max / 2.38" min	0271085
7	2" Water Suction Hose x 30' Long	0272061
8	2" x 36" Reinforced Water Hose	0272034

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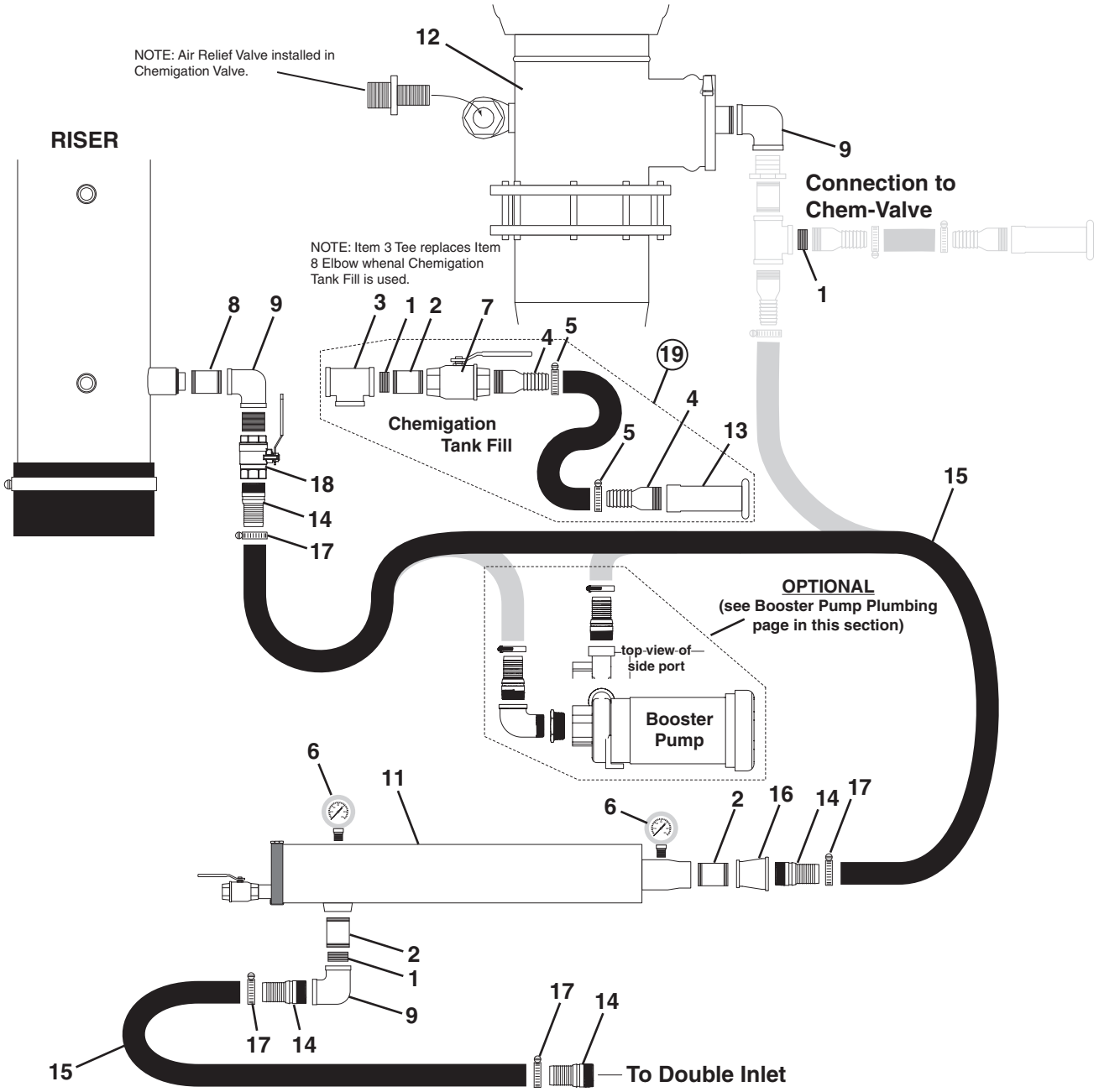


EFFECTIVE
May 2000



ITEM	DESCRIPTION	PART #
1	1-1/2" Contractor Hose - 20' Lg (Double Inlet)	9330243
	1-1/2" Contractor Hose - 30' Lg (Single Inlet)	0272008
2	Hose Clamp	0271013
3	1-1/2" Hose Insert	0271026
4	1-1/2" x 90° Elbow	0241087
5	2" x 2" x 2" Tee	0242008
6	3/4" x 20" Spraybar	0211160
7	3/4" x 90° Elbow w/1/8" Hole (RH)	0244070
8	3/4" x 6" Pipe Nipple	0211080
9	3/4" x 3/4" x 3/4" Tee	0242002
10	3/4" x 90° Elbow w/1/8" Hole (LH)	0244071
11	Spray Nozzle (Quantity 12)	0995600
12	3/4" Pipe Cap	0244068
13	Bearing Assembly	1731731
14	1-1/2" x 18" Nipple	0211159
15	2" x 1-1/2" Bell Reducer	0243017
16	2" x 1-1/2" Reducer Bushing	0244030
	Spraybar Assembly (Includes Items 6,7,8,9,10,11 & 12)	0996250
	Conversion Pkg: Single Inlet to Single Self-Cleaning Inlet	0000C34
	Conversion Pkg: Double Inlet to Double Self-Cleaning Inlet	0000C35
	Nelson Bearing to Valmont Bearing Conversion Kit (Incl. 13,15,& 1-1/4" x 3/4" Reducer)	0000E16

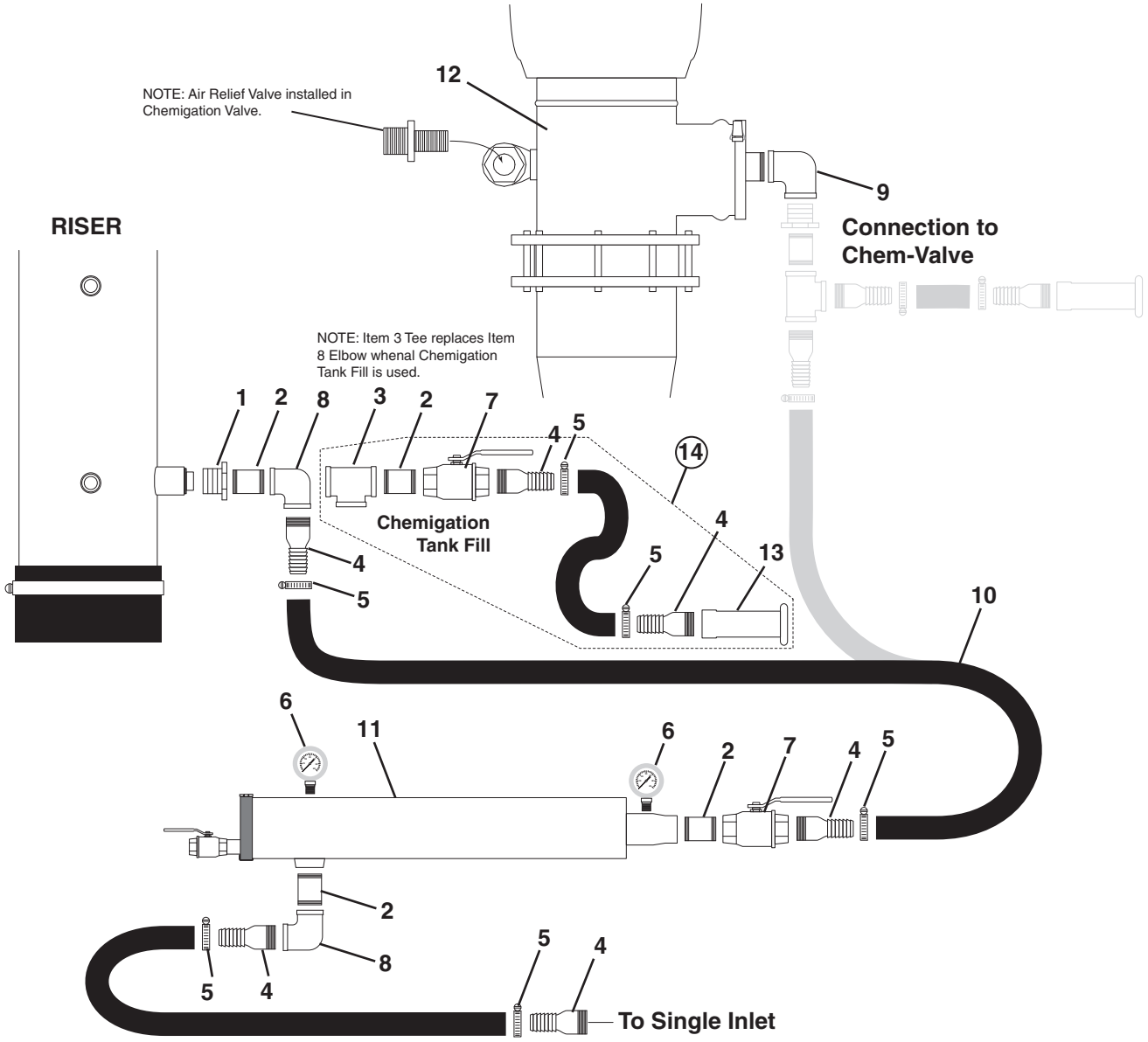
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ITEM	DESCRIPTION	PART #
1	2" X 1-1/2" Reducer	0244030
2	1-1/2" x 1-3/4" Nipple	0211078
3	2" Tee	0242008
4	1-1/2" Hose Insert	0271026
5	Hose Clamp	0271013
6	Pressure Gauge 0-60 psi	0232442
7	1-1/2" Ball Valve	0995490
8	2" x 2" Nipple	0211008
9	2" x 90° Elbow	0241003
10	1-1/2" Contractor Hose - 40' Lg	0272037
	1-1/2" Contractor Hose - 30' Lg	0272008
11	M150 Filter	0995486

ITEM	DESCRIPTION	PART #
12	Check Valve	0994425
13	Adjustable Hose Nozzle - 1-1/2" FPT - 84 GPM	0996994
14	2" Hose Insert	0271035
15	2" Water Suction Hose - 30' Long	0272061
16	2" x 1-1/2" Bell Reducer	0243017
17	Hose Clamp - 2.69" max / 2.38" min	0271085
18	2" Ball Valve	0232046
19	Tank Fill Kit	KA09664
	COMPLETE Check Valve Kit	KA01151

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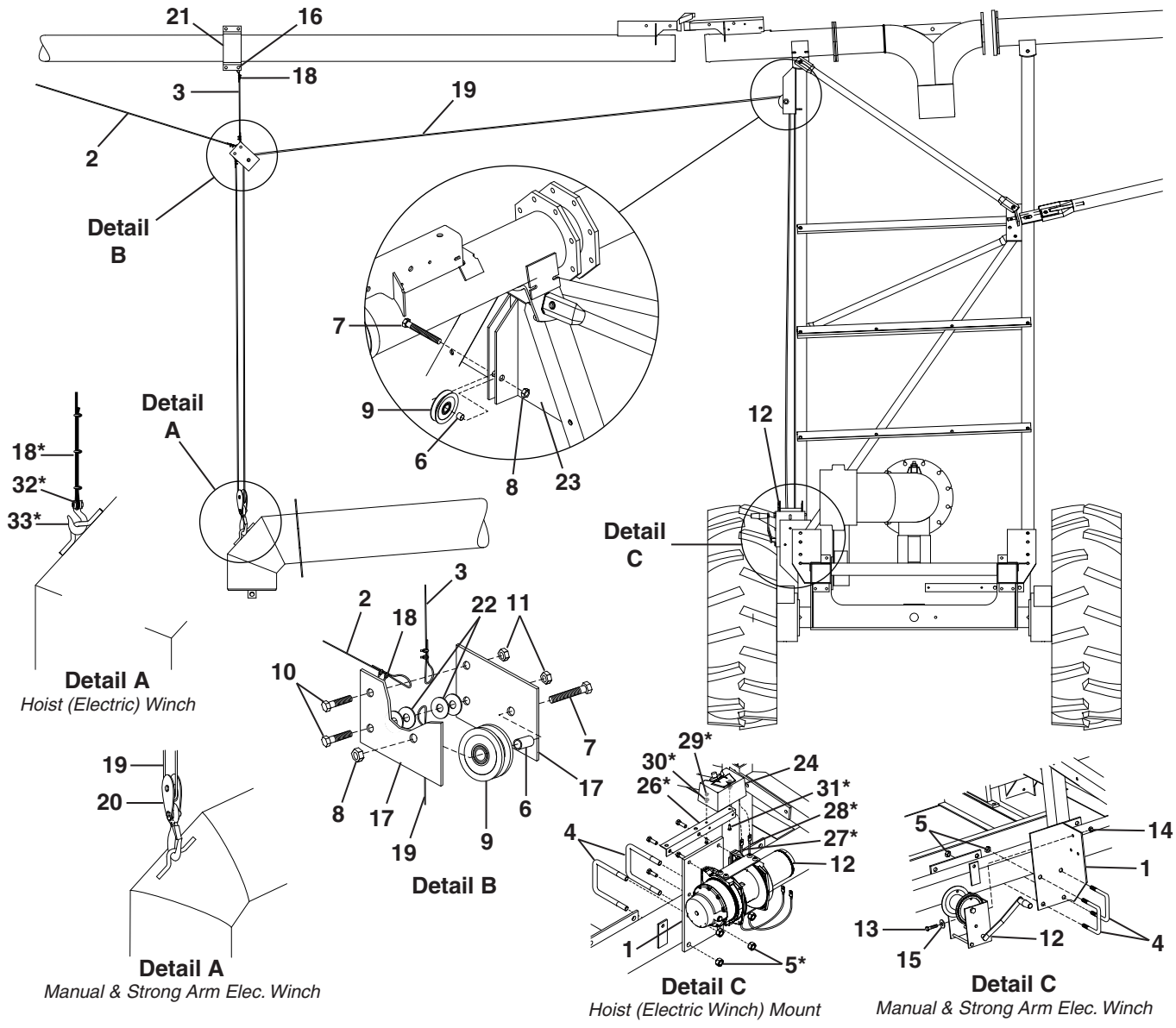


ITEM	DESCRIPTION	PART #
1	2" X 1-1/2" Reducer	0244030
2	1-1/2" x 1-3/4" Nipple	0211078
3	1-1/2" Tee	0242047
4	1-1/2" Hose Insert	0271026
5	Hose Clamp	0271013
6	Pressure Gauge 0-60 psi	0232442
7	1-1/2" Ball Valve	0995490
8	1-1/2" x 90° Elbow	0241087
9	2" x 90° Elbow	0241003

ITEM	DESCRIPTION	PART #
10	1-1/2" Contractor Hose - 40' Lg	0272037
	1-1/2" Contractor Hose - 30' Lg	0272008
11	M150 Filter	0995486
12	Check Valve	0994425
13	Adjustable Hose Nozzle - 1-1/2" FPT - 84 GPM	0996994
14	Tank Fill Kit	KA09664
	COMPLETE Check Valve Kit	KA01151

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Functional Area	Assembly / Part	Rev# 07-16
Ditch Feed	Center Feed Inlet Lift	

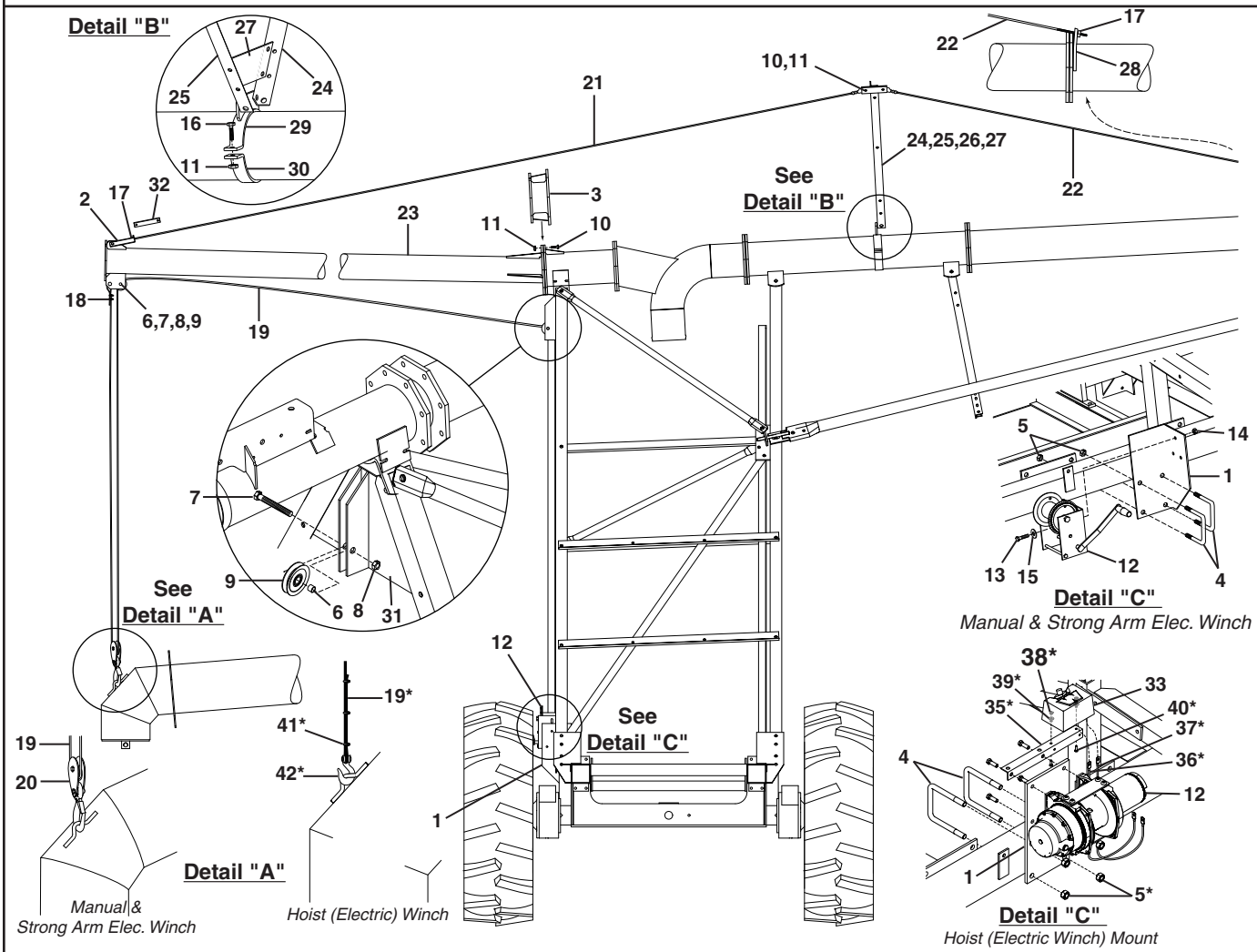


ITEM	DESCRIPTION	PART #
1	Winch Mount Plate (Strong Arm & Manual Winch)	9362264
	Hoist (Electric Winch) Mount Plate	9364713
2	24' Cable	1731098
3	8' Cable	1731097
4	3/4" x 7" U-Bolt	0176048
5	3/4" Hex Nut	0131008
6	Sheave Bushing	0192028
7	5/8" x 3" Cap Screw	0161010
8	5/8" Lock Nut	0133010
9	Sheave - Wire Rope 3000lb Cap. Steel - Eff. Jun. 2016	0999514
	Sheave - Plastic - Prior to Jun. 2016	1915646
10	1/2" x 2" Cap Screw	0161024
11	1/2" Lock Nut	0133005
12	Manual Winch w/Brake	0996407
	Strong Arm Electric Winch	0995586
	Hoist DC25000 (Heavy Duty)	0999958
13	3/8" x 1-1/4" Cap Screw	0161153
14	3/8" Lock Nut	0133006
15	3/8" Flat Washer	0142031
16	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136

ITEM	DESCRIPTION	PART #
17	Pulley Mount Plate	9362318
18	5/16'' Cable Clamp	0202021
19	Winch Cable 5/16" x 7 x 19 - 56' Long	1731736
20	Pulley Block and Hook (Strong Arm & Manual Winch)	0996406
21	6-5/8'' Half Clamp	1700622
	8-5/8" Half Clamp	9330002
	10" Half Clamp	1702524
22	1/2'' Flat Washer	0142025
23	Drive Unit Reinforcement Plate	9362272
24	Hoist (Electric Winch) Remote Control (not shown)	0999960
25	Hoist (Electric Winch) Control Pack	0999961
26	Hoist (Electric Winch) Control Angle	9364714
27	#4 Battery Cable (Black) - 2' Long	03E4132
28	#4 Battery Cable (Red) - 2' Long	03E4133
29	1/4" Lock Nut	0133008
30	1/4" Flat Washer	0142022
31	1/4" x 3/4" Cap Screw	0161057
32	5/16" Cable Thimble	0202028
33	Slip Hook	0992731

*** Ditchfeed Winch w/Remote Control Hardware KA02442**

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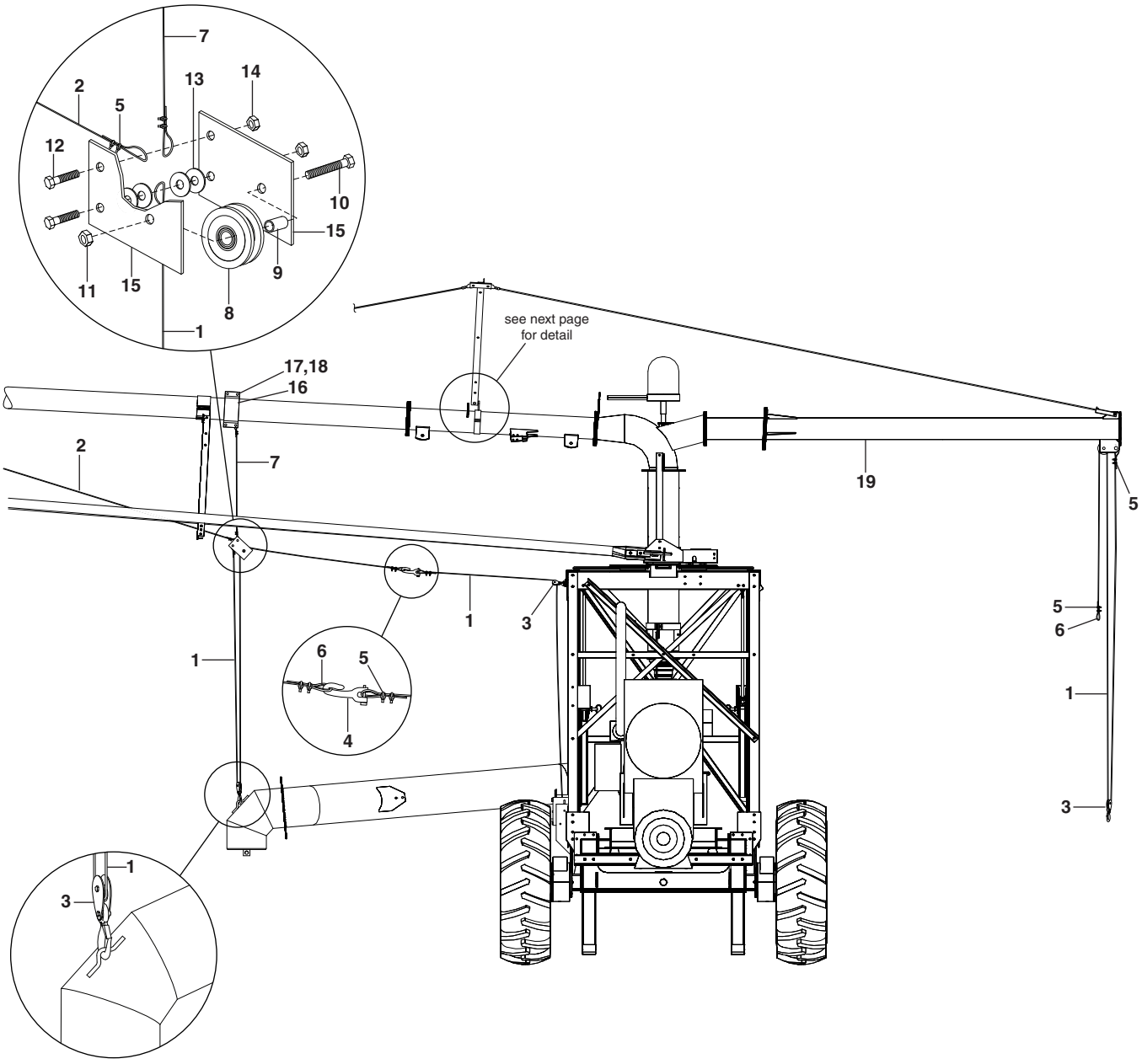


ITEM	DESCRIPTION	PART #
1	Winch Mount	9362264
	Hoist (Electric Winch) Mount Plate - Alternate	9364713
2	L-Bracket for 5/16" Cable	9362514
3	10" x 8-5/8" Stub (10" 6000 Only)	9362441
4	3/4" x 7" U-Bolt	0176048
5	3/4" Hex Nut	0131008
6	Sheave Bushing	0192028
7	5/8" x 3" Cap Screw	0161010
8	5/8" Lock Nut	0133010
9	Sheave - Steel - Effective Jun 2016	0999514
	Sheave - Plastic - Prior to Jun 2016	1915646
10	1/2" x 2" Cap Screw	0161024
11	1/2" Lock Nut	0133005
12	Manual Winch w/Brake	0996407
	Strong Arm Electric Winch	0995586
	Hoist DC25000 (Electric Winch)	0999958
13	3/8" x 1-1/4" Cap Screw	0161153
14	3/8" Lock Nut	0133006
15	3/8" Flat Washer	0142031
16	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
17	7/8" Hex Nut	0131005
18	5/16" Cable Clamp	0202021
19	Winch Cable 5/16" x 7 x 19 - 56' Long	1731736
20	Pulley Block and Hook	0996406
21	Cable, Outer - 9' Long (Rolling)	9362372
	Cable, Outer - 16' Long (Floating)	9362373

ITEM	DESCRIPTION	PART #
22	Back Cable - Model 8000	9362448
	Back Cable - Model 8120	9362447
	Back Cable - Model 6000	9362374
23	Overhang Pipe - 9' Lift (Rolling)	9362386
	Overhang Pipe - 16' Lift (Floating)	9362388
24	Truss Leg, Right	9360044
25	Truss Leg, Left	9360045
26	Angle, Sign Support	9360228
27	Gusset, Truss	1701641
28	Back Cable Ear - 6-5/8"	9361357
	Back Cable Ear - 8-5/8" & 10"	9362517
29	Clamp-on Bracket - 8-5/8"	9362391
	Clamp-on Bracket - 10"	9362379
30	Half Clamp - 8-5/8"	9330002
	Half Clamp - 10"	1702524
31	Drive Unit Reinforcement Plate	9362272
32	Adapter Strap (10" 8000 ONLY)	9332035
33	Hoist (Electric Winch) Control Pack	0999960
34	Hoist (Electric Winch) Remote Control (not shown)	0999961
35	Hoist (Electric Winch) Control Angle	9364714
36	#4 Battery Cable (Black) - 2' Long	03E4132
37	#4 Battery Cable (Red) - 2' Long	03E4133
38	1/4" Lock Nut	0133008
39	1/4" Flat Washer	0142022
40	1/4" x 3/4" Cap Screw	0161057
41	5/16" Cable Thimble	0202028
42	Slip Hook	0992731

*** Ditchfeed Winch w/Remote Control Hardware..... KA02442**

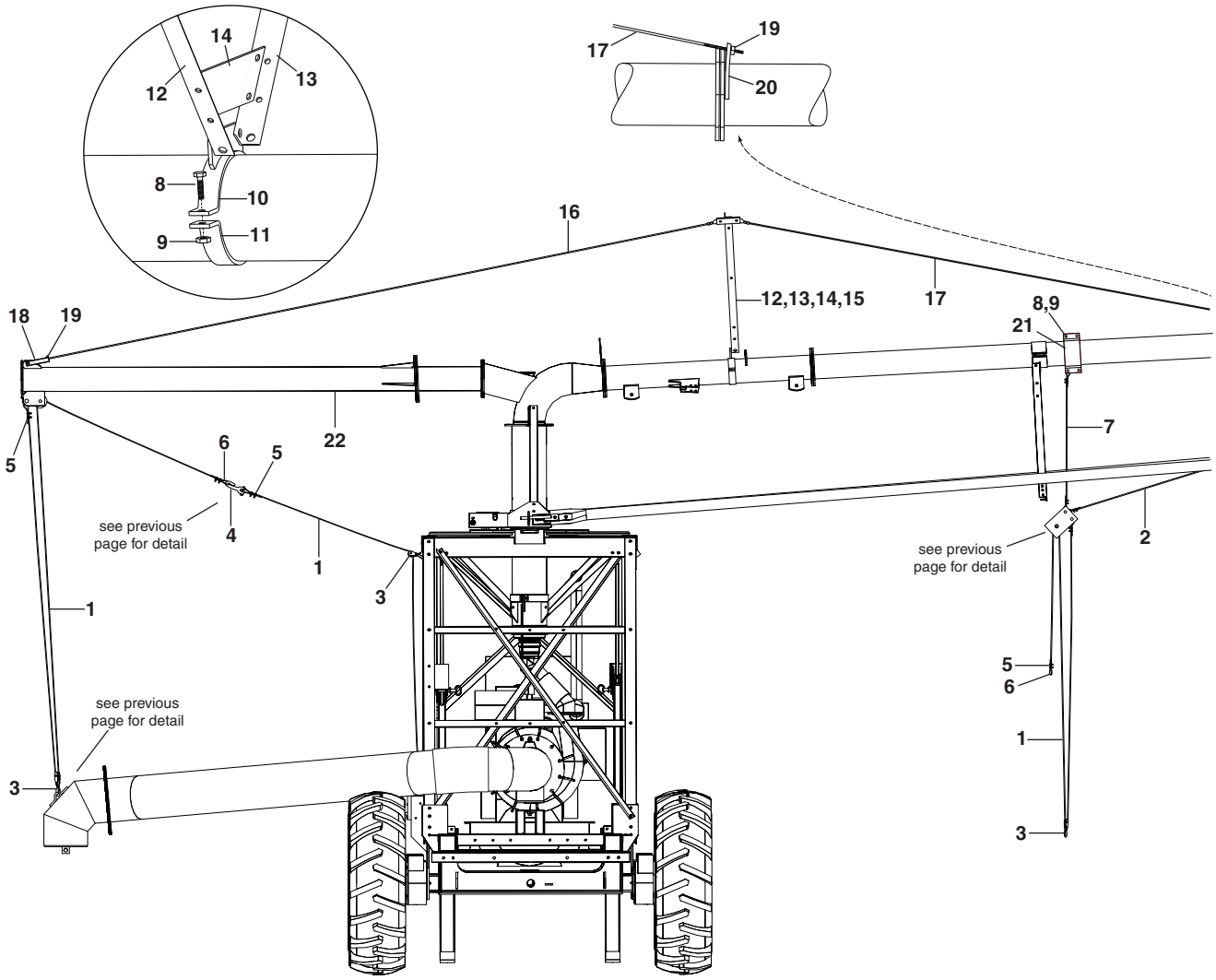
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ITEM	DESCRIPTION	PART #
1	Winch Cable 5/16" x 19 - 56' [17,069m] Long	1731736
2	24' Cable	1731098
3	Pulley Block and Hook	0996406
4	5/16" Slip Hook	0992731
5	5/16" Cable Clamp	0202021
6	Thimble	0202028
7	8' Cable	1731097
8	Plastic Sheave	1915646
9	Sheave Bushing	0192028
10	5/8" x 3" Cap Screw	0161010
11	5/8" Lock Nut	0133010

ITEM	DESCRIPTION	PART #
12	1/2" x 2" Cap Screw	0161024
13	1/2" Flat Washer	0142025
14	1/2" Lock Nut	0133005
15	Pulley Mount Plate	9362318
16	6-5/8" Half Clamp - 2-Bolt	1720290
	8-5/8" Half Clamp - 4-Bolt	9330002
17	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
18	1/2" Lock Nut	0133005
19	Overhang Pipe - 9' [2,743m] Lift (Rolling Inlet)	9362386
	Overhang Pipe - 16' [4,877m] Lift (Foating Inlet)	9362388

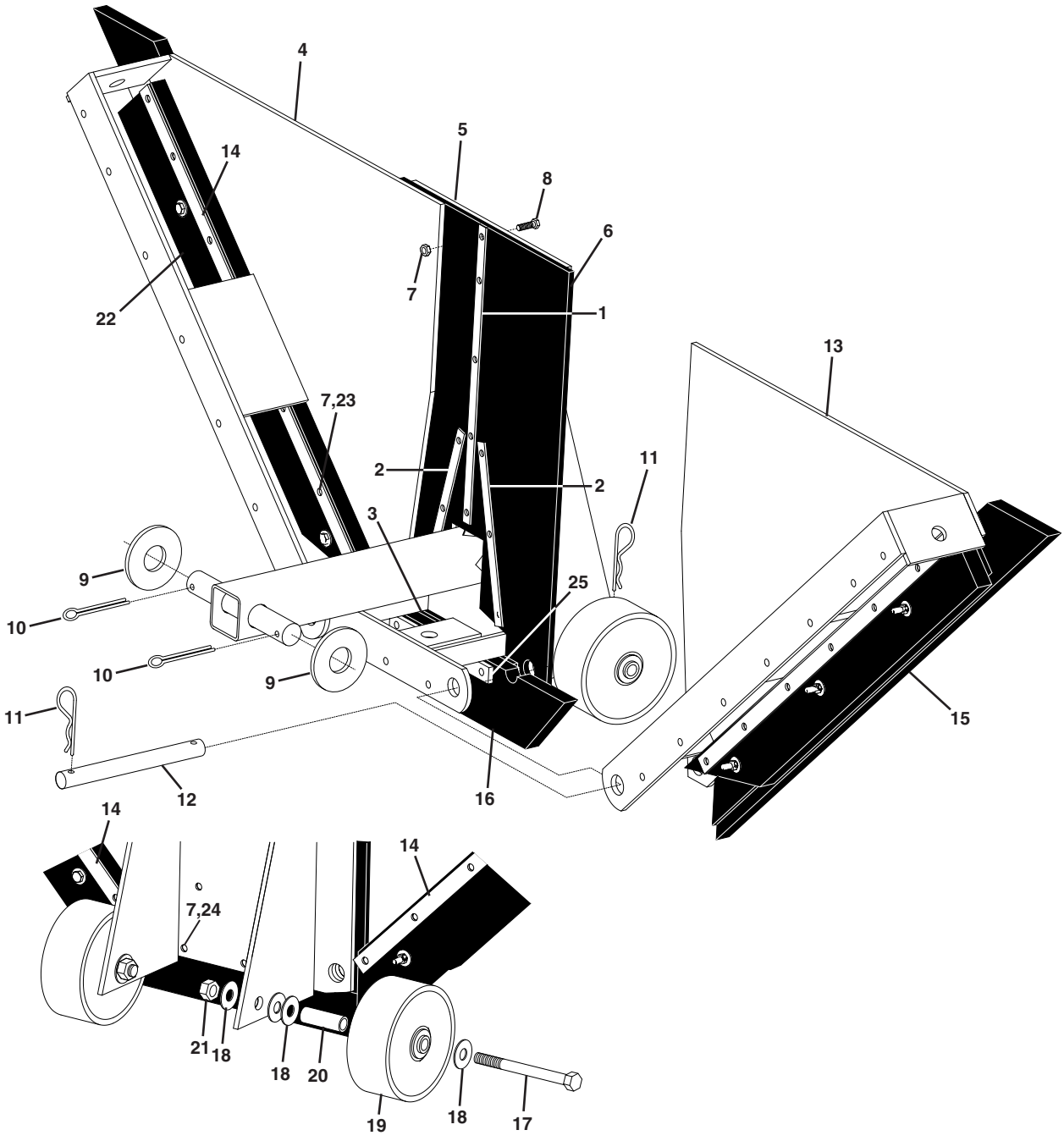
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ITEM	DESCRIPTION	PART #
1	Winch Cable 5/16" x 19 - 56' [17,069m] Long	1731736
2	24' Cable	1731098
3	Pulley Block and Hook	0996406
4	5/16" Slip Hook	0992731
5	5/16" Cable Clamp	0202021
6	Thimble	0202028
7	8' Cable	1731097
8	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
9	1/2" Lock Nut	0133005
10	Clamp-on Bracket - 8-5/8"	9362391
11	Half Clamp - 8-5/8"	9330002
12	Truss Leg, Left	9360045
13	Truss Leg, Right	9360044

ITEM	DESCRIPTION	PART #
14	Truss Gusset	1701641
15	Sign Support Angle	9360228
16	Cable, Outer - 9' Long (Rolling Inlet)	9362372
	Cable, Outer - 16' Long (Floating Inlet)	9362373
17	Back Cable - Model 8000	9362448
	Back Cable - Model 8120	9362447
18	L-Bracket for 5/16" Cable	9362514
19	7/8" Hex Nut	0131005
20	Back Cable Ear - 6-5/8"	9361357
	Back Cable Ear - 8-5/8"	9362517
21	6-5/8" Half Clamp - 2-Bolt	1720290
	8-5/8" Half Clamp - 4-Bolt	9330002
22	Overhang Pipe - 9' [2,743m] Lift (Rolling Inlet)	9362386
	Overhang Pipe - 16' [4,877m] Lift (Floating Inlet)	9362388

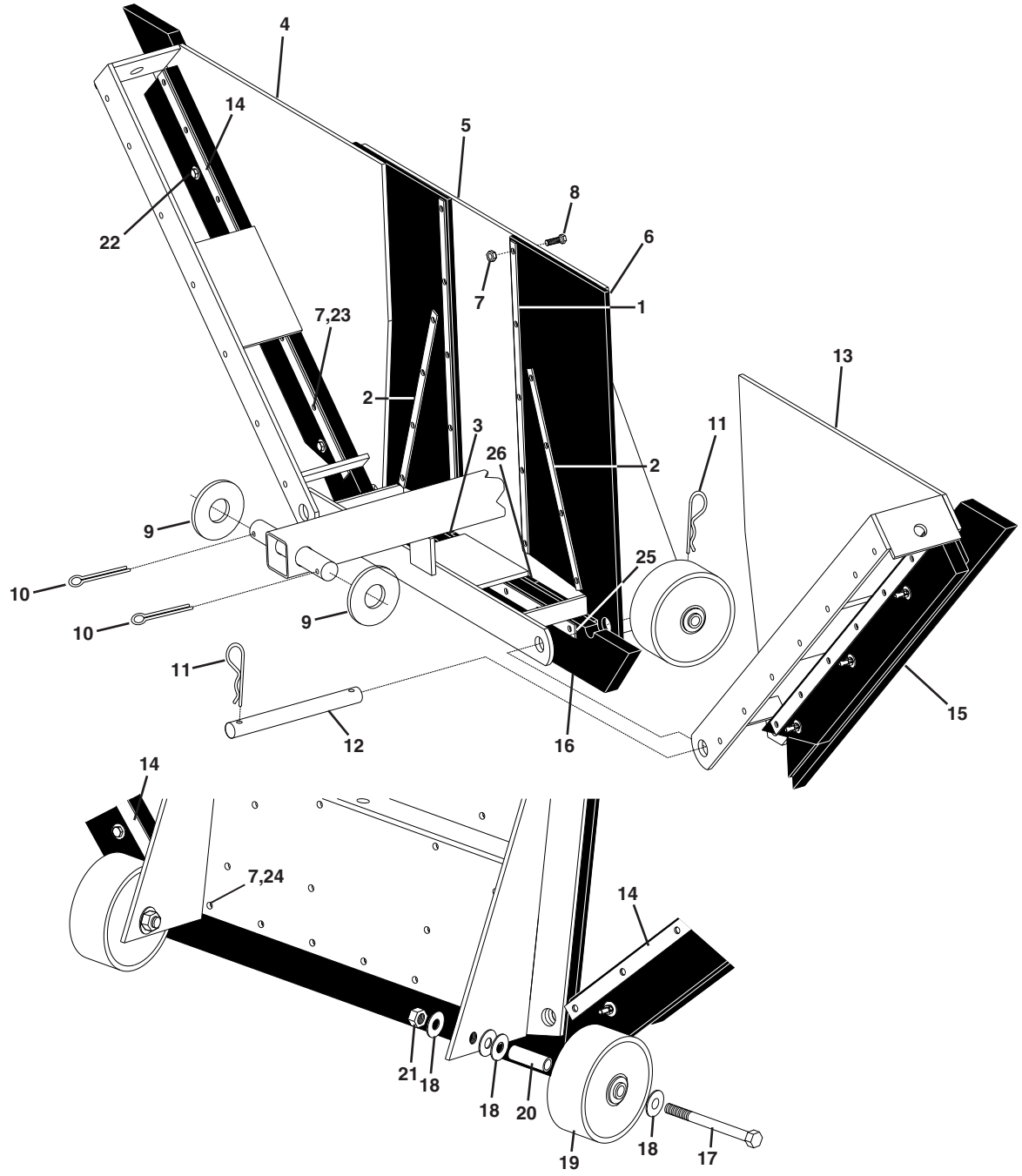
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ITEM	DESCRIPTION	PART #
1	Long Center Tie Down	1730906
2	Short Center Tie Down	1730471
3	Center Gasket	1731164
4	Left Hand Wing Assemby	1730901
5	Center Section Assembly	1731251
6	Center Section Gasket	1731162
7	1/4" Hex Nut	0131020
8	1/4" x 1" Cap Screw	0161056
9	1" Washer	0142020
10	3/16" x 2" Cotter Pin	0151015
11	5/32" Hair Pin	0181034
12	Wing Pin	1730467
13	Right Hand Wing Assembly	1730903

ITEM	DESCRIPTION	PART #
14	Wing Tie Down	1730907
15	R.H. Outer Wing Gasket	1731157
16	Front Gasket	1731163
17	1/2" x 4-1/2" Cap Screw	0161110
18	1/2" Flat Washer	0142025
19	Wheel - 5" Dia.	1731240
20	Wheel Bushing	1731225
21	1/2" Hex Nut	0133005
22	L.H. Outer Wing Gasket	1731158
23	1/4" x 2-1/2" Cap Screw	0161054
24	1/4" x 2" Cap Screw	0161055
25	Short Tie Down	1730468

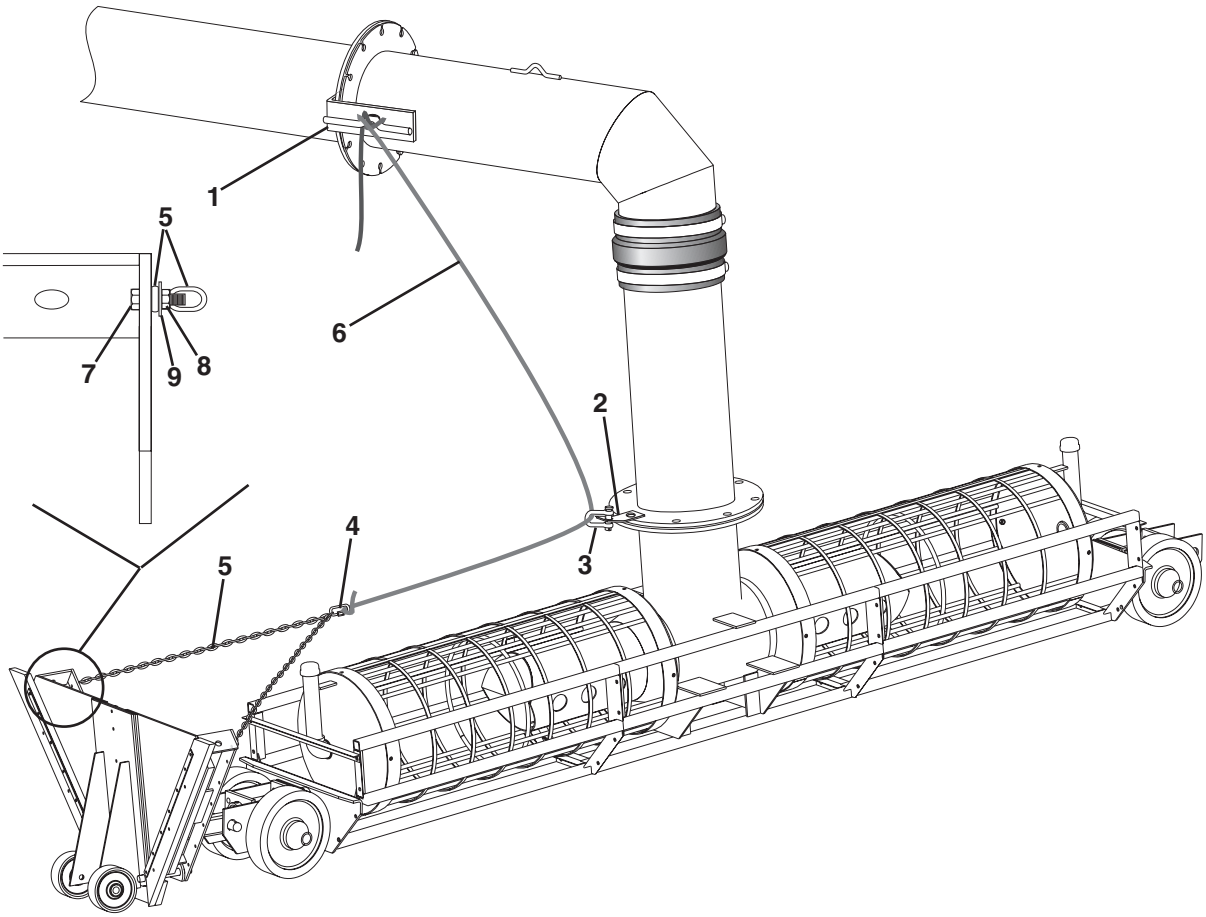
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ITEM	DESCRIPTION	PART #
1	Long Center Tie Down	9330039
2	Short Center Tie Down	9330042
3	Center Gasket	9330038
4	Left Hand Wing Assemby	1730901
5	Center Section Assembly	9330040
6	Center Section Gasket	9330043
7	1/4" Hex Nut	0131020
8	1/4" x 1" Cap Screw	0161056
9	1" Washer	0142020
10	3/16" x 2" Cotter Pin	0151015
11	5/32" Hair Pin	0181034
12	Wing Pin	1730467
13	Right Hand Wing Assembly	1730903

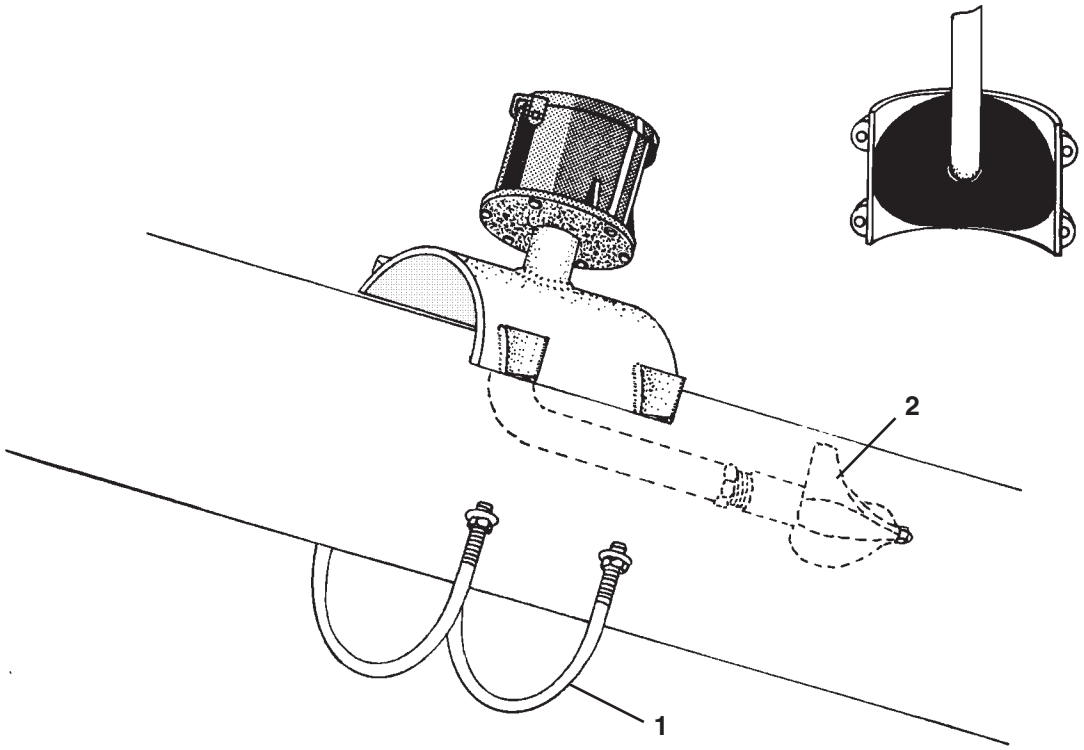
ITEM	DESCRIPTION	PART #
14	Wing Tie Down	1730907
15	R.H. Outer Wing Gasket	1731157
16	Front Gasket	9330044
17	1/2" x 4-1/2" Cap Screw	0161110
18	1/2" Flat Washer	0142025
19	Wheel - 5" Dia.	1731240
20	Wheel Bushing	1731225
21	1/2" Hex Nut	0133005
22	L.H. Outer Wing Gasket	1731158
23	1/4" x 2-1/2" Cap Screw	0161054
24	1/4" x 2" Cap Screw	0161055
25	Center Tie Down	9330041
26	Short Center Gasket	1731164

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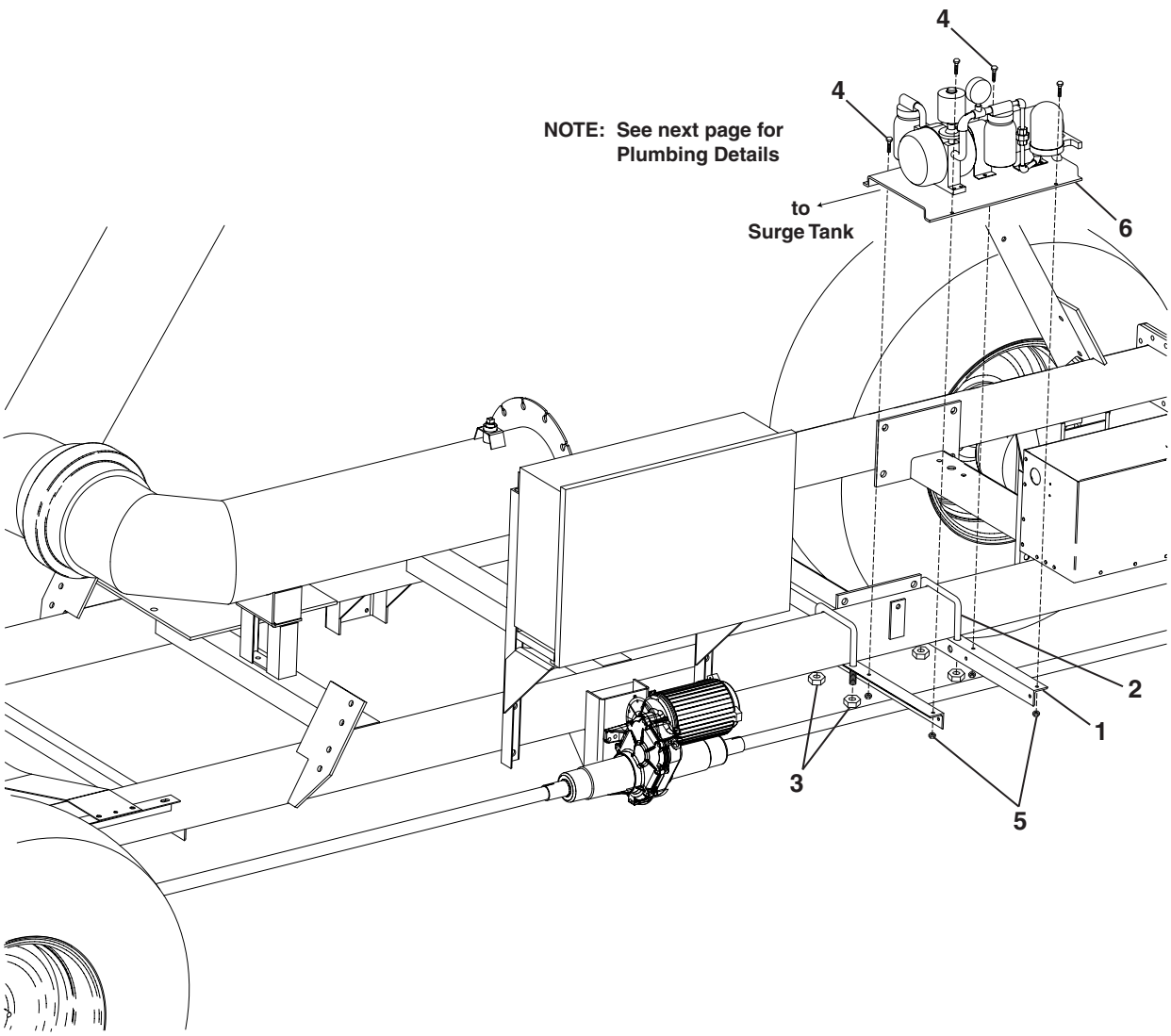
ITEM	DESCRIPTION	PART #
1	Tie Bracket Assembly	9330156
2	Clevis Bracket	9330155
3	1/2 Clevis Chain	0202000
4	Chain Connector	0323042
5	72 Link Chain	0323041
6	Nylon Rope	9330159
7	1/4" x 1" Cap Screw	0161056
8	1/4" Lock Nut	0133008
9	1/4" Flat Washer	0142022

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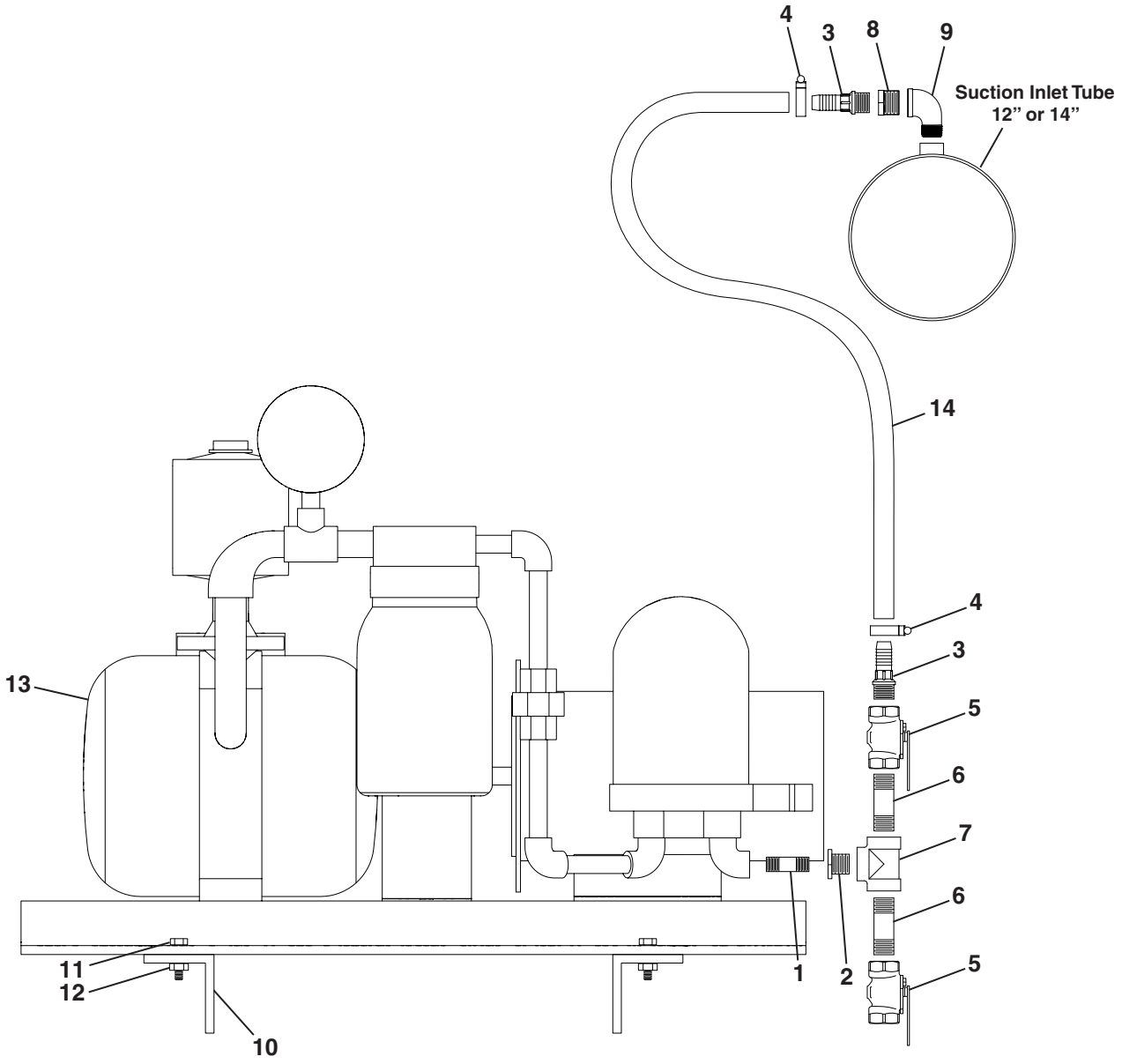
DESCRIPTION / Max Flow Totalizer	12" O.D. x 11.79" I.D. 3750 GPM Gallons	12" O.D. x 11.79" I.D. 236.6 Liters/Sec. Cu. Meters	14" O.D. x 13.79" I.D. 4000 GPM Gallons	14" O.D. x 13.79" I.D. 283.9 Liters/Sec. Cu. Meters	16" O.D. x 15.73" I.D. 6000 GPM Gallons	16" O.D. x 15.73" I.D. 378.5 Liters/Sec. Cu. Meters
Flowmeter Complete w/Gasket, U-Bolts, Nuts, Washers, Template for Cutting Hole						
Horizontal Pulse						
without electronic pulse output	**0992642**	**0993380**	**0993616**	**0993565**	**0999961**	**0999962**
with electronic pulse output	**0997924**	**0997913**	**0997925**	**0997926**	**0999963**	**0999964**
1 U-Bolt w/Nuts & Washers	**Included w/ Flow Meter**		**Included w/ Flow Meter**		**Included w/ Flow Meter**	
2 Propeller (Service)	**0995272**		**0995272**		**0995272**	
Template to Cut Pipeline	**Included w/ Flow Meter**		**Included w/ Flow Meter**		**Included w/ Flow Meter**	
Pulse Sensor & 20' Cable	**Incl. w/Electronic Pulse Flowneters**		**Incl. w/Electronic Pulse Flowneters**		**Incl. w/Electronic Pulse Flowneters**	

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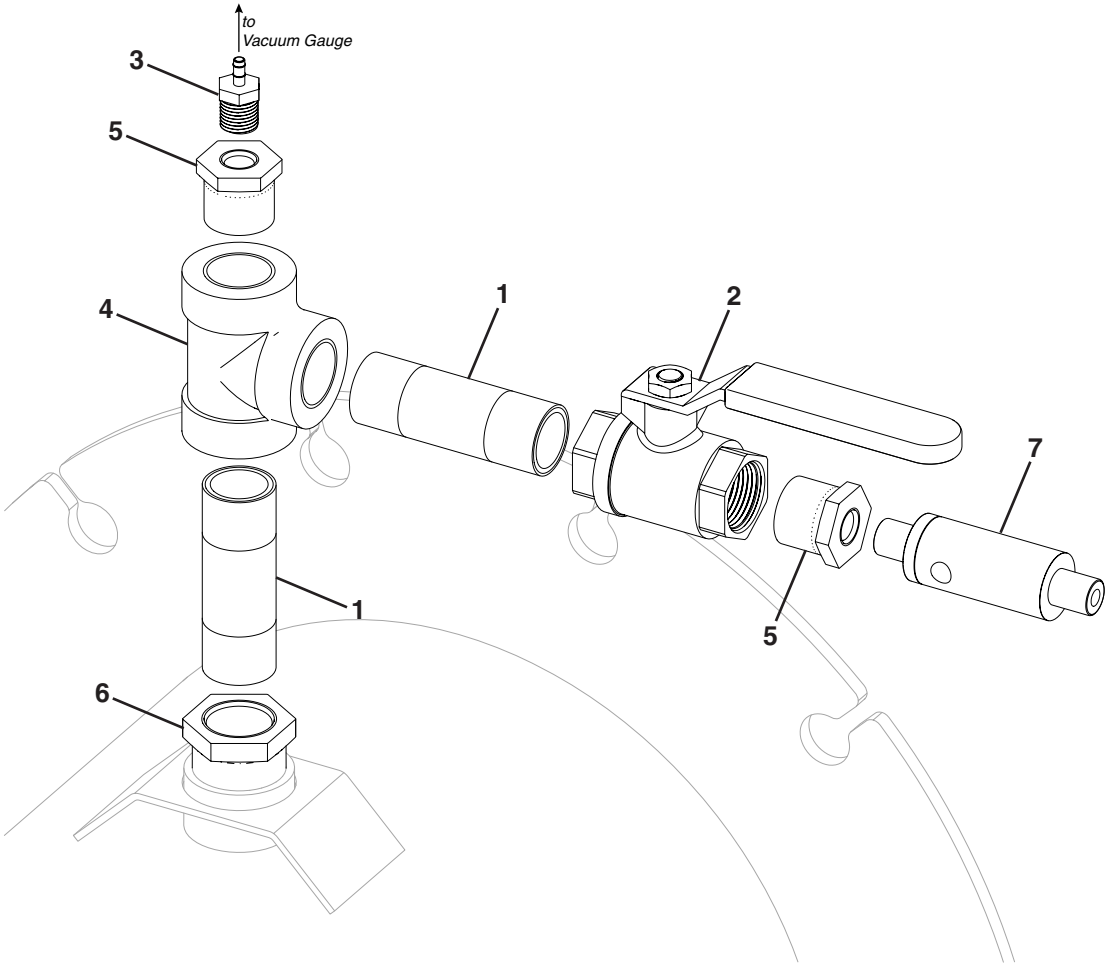
ITEM	DESCRIPTION	PART #
1	Primer Mount Angle	9362349
2	3/4” x 7” U-Bolt	0176048
3	3/4” Hex Nut	0131008
4	5/16” x 1” Cap Screw	0161052
5	5/16” Lock Nut	0133007
6	Primer Pump - 12 Vdc	0996993
	Primer Pump - 50/60 Hz Ac Voltage	0998029

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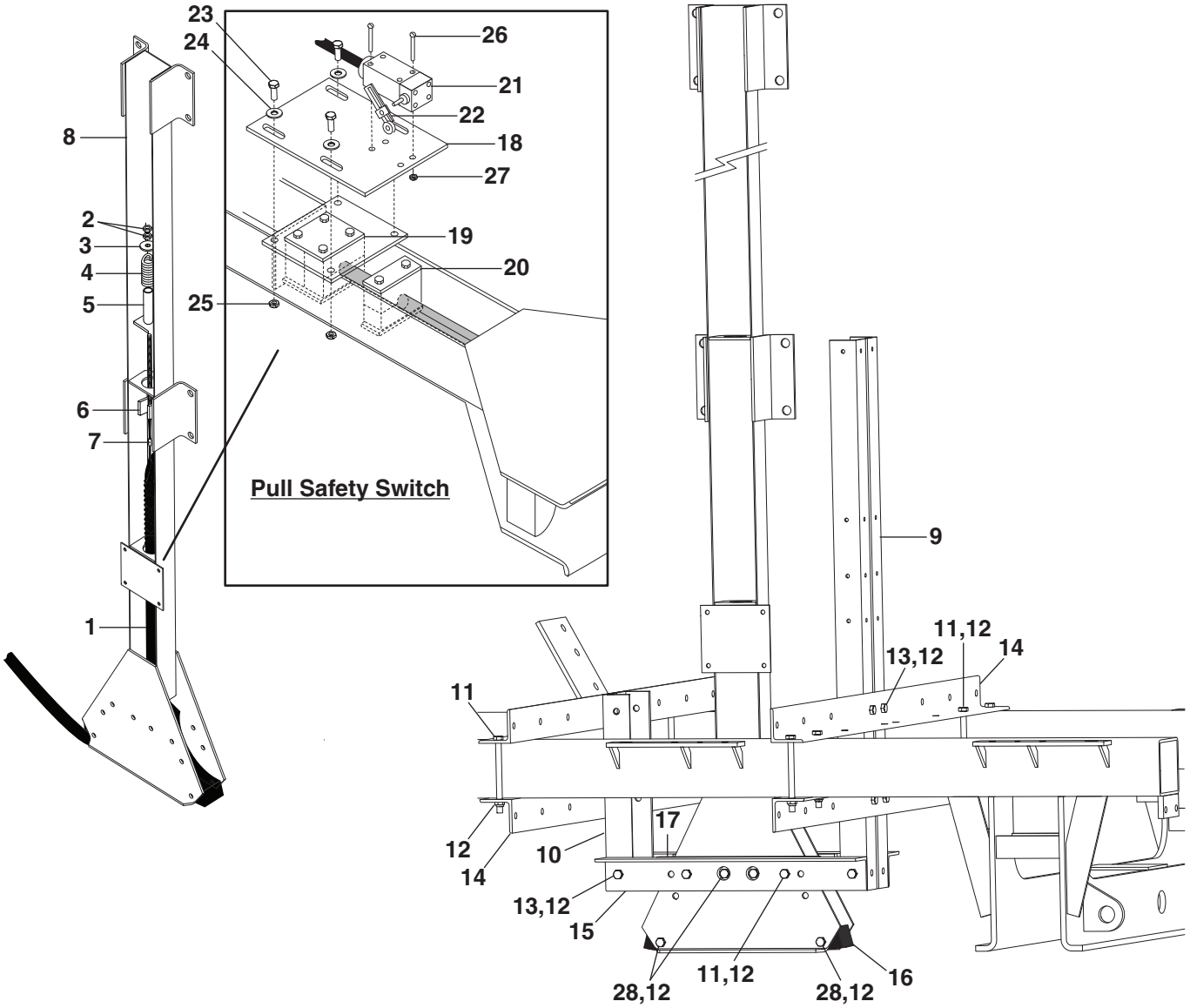
ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	1/2" x 3" Nipple	0211068	9	1" Street Elbow	0241017
2	1/2" x 3/4" Reducer Bushing	0244029	10	Angle	9362349
3	3/4" Hose Barb	0271077	11	5/16" x 1" Cap Screw	0161052
4	3/4" Hose Clamp	0271001	12	5/16" Lock Nut	0133007
5	3/4" Valve	0232045	13	Primer Pump - 12Vdc	0996993
6	3/4" x 3" Nipple	0211055		Primer Pump - 50/60 Hz Ac Voltage	0998029
7	3/4" Tee	0242002	14	3/4" Clear Plastic Hose - 8' Long	9362375
8	1" x 3/4" Reducer Bushing	0244038			

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ITEM	DESCRIPTION	PART #
1	3/4" x 3" Nipple - Galvanized	0211055
2	3/4" Ball Valve - Brass Full Throw	0232045
3	1/4" NPT x 1/4" Tube Connector - Brass	0232366
4	3/4" x 3/4" x 3/4" Tee Fitting - Galvanized	0242002
5	3/4" x 1/4" Reducer Fitting - Galvanized	0244025
6	1" x 3/4" Reducer Fitting - Galvanized	0244038
7	Vacuum Pump - Stainless Steel	9364787
	30" HG VAC/0-100 psi Gauge (not shown)	0231142*
	Compressed Air Vacuum Primer Kit	KA02704
	*Compressed Air Vacuum Primer Kit w/Gauge	KA02705

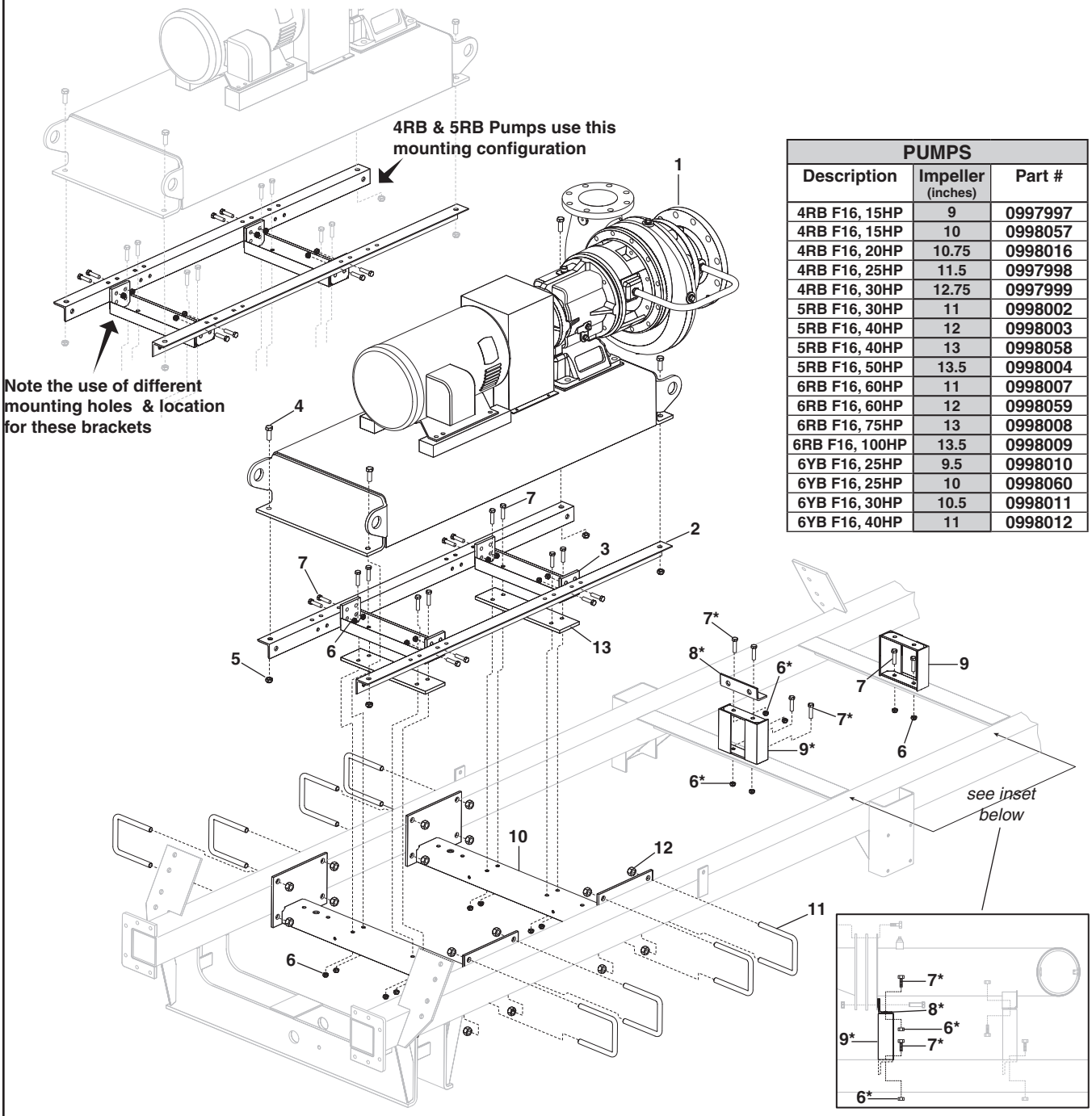
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ITEM	DESCRIPTION	PART #
1	Power Cable (see chart on last pg,)	
2	3/8" Hex Nut	0131018
3	Spring Keeper	1732260
4	Roll Brake Spring (60A Only)	1900139
	Roll Brake Spring - Big	0997984
5	Spring Guide (60A Only)	1732275
	Spring Guide - Big	9363718
6	Spring Adjuster	1732272
7	Cord Grip - Offset Eye - 15" (60A)	03E2892
	- 18" (100A & 200A)	03E2893
	- 20" (200A 2/0Ga.)	03E2984
	- 22" (400A)	03E2985
8	Cord Drag Channel Assm. (60A Only)	9362538
	Cord Drag Channel Assm. - Big	9363719
9	Vertical Safety Angle - Long	9363708
10	Vertical Safety Angle - Short	9363707
11	1/2" x 6.5" Cap Screw	0161431
12	1/2" Lock Nut	0133005
13	1/2" x 1-1/4" Cap Screw	0161027
14	Main Angle Mount	9363709
15	Cord Mount Angle	9363710

ITEM	DESCRIPTION	PART #
16	Bumper (60A Only)	1732258
	Bumper - Big	9363711
17	Channel Assm. Adapter Spacer (60A Only)	9363615
18	Switch Mount (60A Only)	1732262
	Switch Mount - Big	9363734
19	Cord Clamp Large - 60A 4Ga.	03E2903
	- 100A & 200A 1Ga.	03E2905
	- 200A 2/0Ga.	03E2909
	- 400A 4/0Ga.	03E2911
20	Cord Clamp Small - 60A 4Ga.	03E2902
	- 100A & 200A 1Ga.	03E2904
	- 200A 2/0Ga.	03E2907
	- 400A 4/0Ga.	03E2910
21	Limit Switch Assm.	1811451
22	Adjustable Switch Arm	0315802
23	5/16" x 1" Cap Screw	0161052
24	5/16" Flat Washer	0142017
25	5/16" Lock Nut	0133007
26	#10 x 2-1/2" Round Head Machine Screw	0164083
27	#10 Hex Nut	0131055
28	1/2" x 6" Cap Screw	0161430

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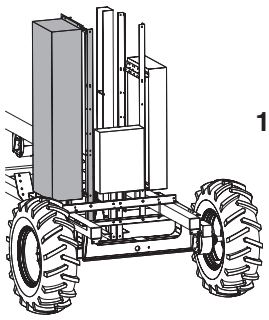
PUMPS		
Description	**Impeller (inches)**	**Part #**
4RB F16, 15HP	9	0997997
4RB F16, 15HP	10	0998057
4RB F16, 20HP	10.75	0998016
4RB F16, 25HP	11.5	0997998
4RB F16, 30HP	12.75	0997999
5RB F16, 30HP	11	0998002
5RB F16, 40HP	12	0998003
5RB F16, 40HP	13	0998058
5RB F16, 50HP	13.5	0998004
6RB F16, 60HP	11	0998007
6RB F16, 60HP	12	0998059
6RB F16, 75HP	13	0998008
6RB F16, 100HP	13.5	0998009
6YB F16, 25HP	9.5	0998010
6YB F16, 25HP	10	0998060
6YB F16, 30HP	10.5	0998011
6YB F16, 40HP	11	0998012

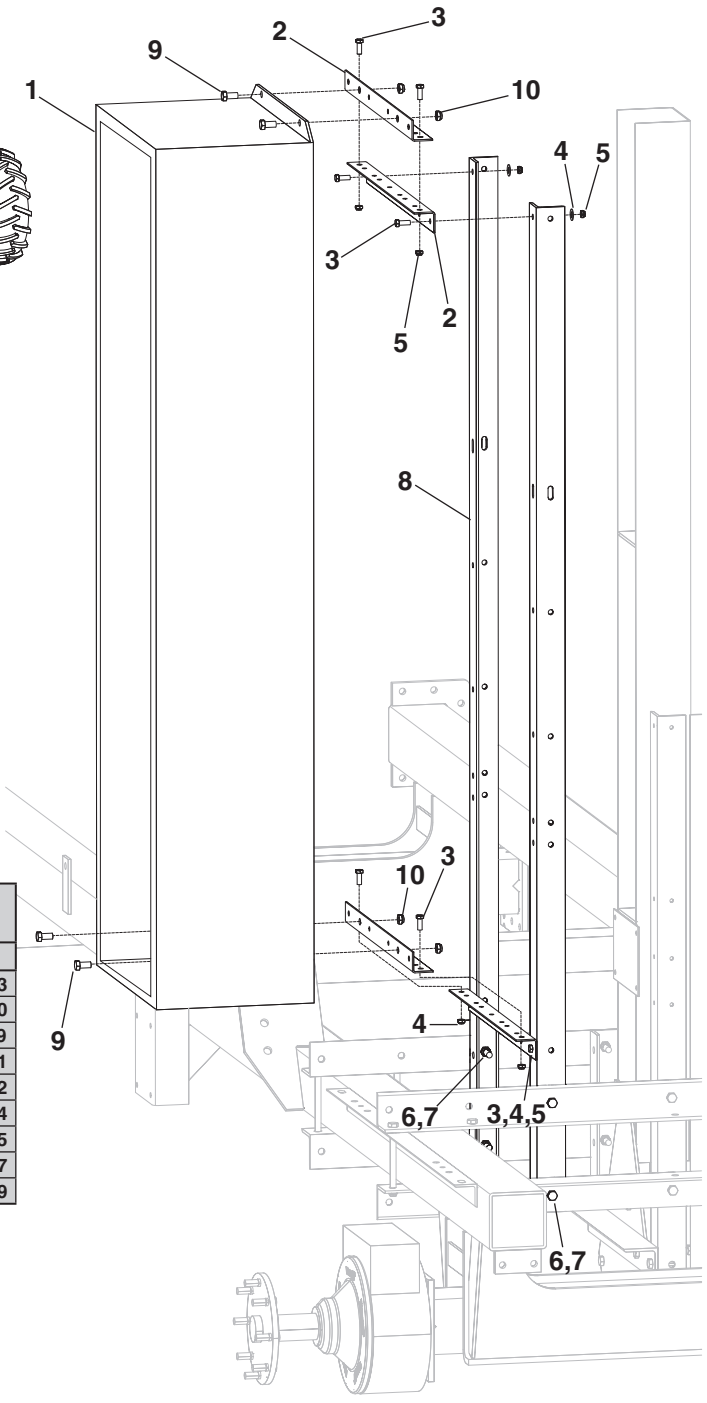
ITEM	DESCRIPTION	PART #
1	Pump	See Chart
2	Mounting Angles	9363731
3	Angle Mounting Assm	9363730
4	5/8" x 1-3/4" Cap Screw	0161088
5	5/8" Lock Nut	0133010
6	1/2" Lock Nut	0133005
7	1/2" x 2" Cap Screw	0161024
8	Suction Pipe Mount - Front	9363733

ITEM	DESCRIPTION	PART #
9	Inlet Support	9362311
10	Modified Engine Mount	9362295
11	3/4" x 7" U-Bolt	0176048
12	3/4" Hex Nut	0131008
13	Spacer (for 6YB Pump ONLY)	9363732

*NOTE: Used for 12" Inlet ONLY.

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380 VOLT 50 HZ PUMP PANEL FUSES			
Pump	Motor	Fuse	Part #
4RB-F16	15HP	40 Amp	03E1910
4RB-F16	20HP	50 Amp	03E1911
4RB-F16	25HP	60 Amp	03E1923
4RB-F16	30HP	70 Amp	03E1912
5RB-F16	30HP	70 Amp	03E1912
5RB-F16	40HP	80 Amp	03E1924
5RB-F16	50HP	100 Amp	03E1925
6RB-F16	60HP	125 Amp	03E1927
6RB-F16	75HP	175 Amp	03E1929
6RB-F16	100HP	225 Amp	03E1931
6YB-F16	25HP	60 Amp	03E1923
6YB-F16	30HP	70 Amp	03E1912
6YB-F16	40HP	80 Amp	03E1924

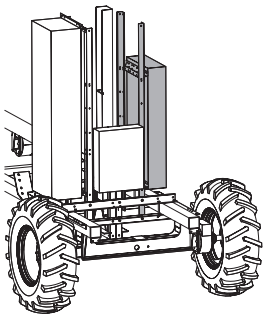
460 VOLT 60 HZ PUMP PANEL FUSES			
Pump	Motor	Fuse	Part #
4RB	15HP	35 Amp	03E1913
4RB	20HP	40 Amp	03E1910
6YB, 4RB	25HP	45 Amp	0315549
6YB, 4RB, 5YB	30HP	50 Amp	03E1911
6YB, 5RB	40HP	70 Amp	03E1912
5RB	50HP	80 Amp	03E1924
6RB	60HP	100 Amp	03E1925
6RB	75HP	125 Amp	03E1927
6RB	100HP	175 Amp	03E1929

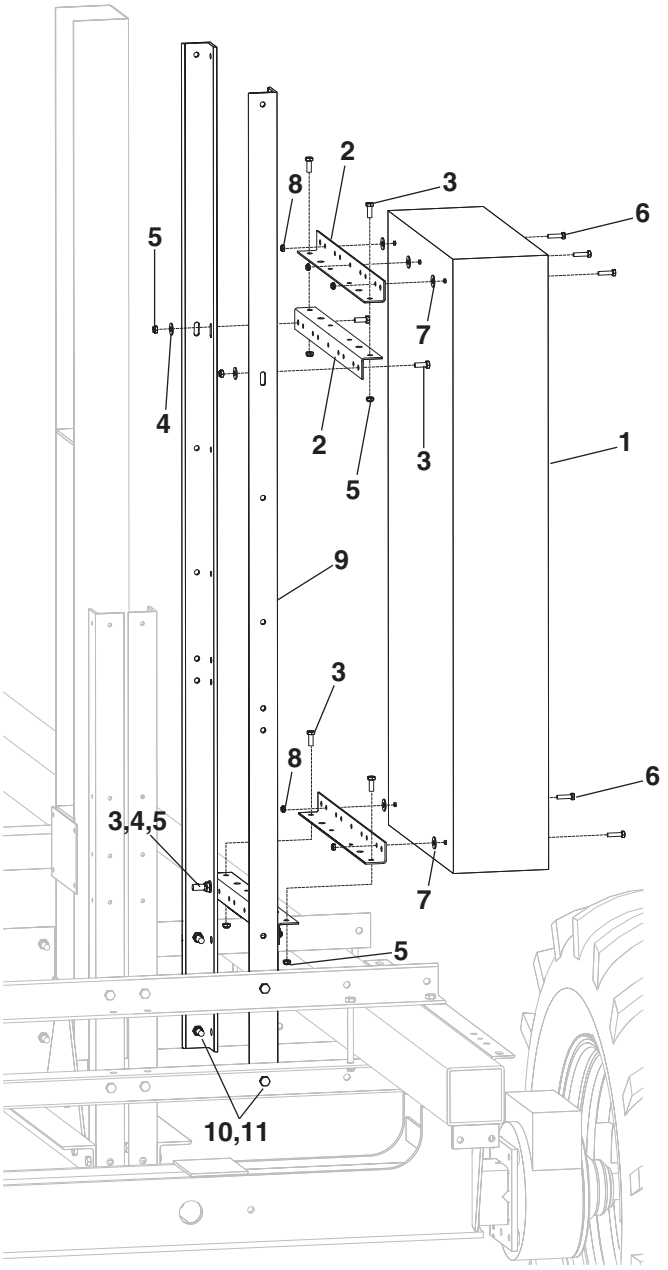
ITEM	DESCRIPTION	PART #
1	Pump Panel - 30 HP (60A 4Ga.)	03E2930
	- 50 HP (100A & 200A 1Ga.)	03E2931
	- 100 HP (200A 2/0Ga.)	03E2932
	- 200 HP (400A 4/0Ga.)(shown)	03E2933
2	Box Mount - Horizontal Angle	9363705
3	3/8" x 1" Cap Screw	0161045
4	3/8" Flat Washer	0142031
5	3/8" Lock Nut	0133006
6	1/2" x 1-1/4" Cap Screw	0161027
7	1/2" Lock Nut	0133005
8	Box Mount - Vertical Angle	9363706

HARDWARE USED BELOW DETERMINED BY PANEL SIZE

9	1/2" x 2" Cap Screw (400A Panel ONLY)	0161024
	5/16" x 1-1/4" C.S. (60A, 100A & 200A Panels)	0161051
10	1/2" Lock Nut (400A Panel ONLY)	0133005
	5/16" Lock Nut (60A, 100A & 200A Panels)	0133007

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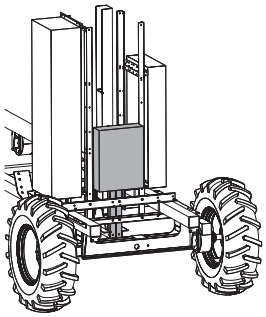
380 VOLT 50 HZ DISCONNECT PANEL FUSES			
Pump	Motor	Fuse	Part #
4RB-F16	15HP	60 Amp	03E1923
4RB-F16	20HP	70 Amp	03E1912
4RB-F16	25HP	80 Amp	03E1924
4RB-F16	30HP	100 Amp	03E1925
5RB-F16	30HP	100 Amp	03E1925
5RB-F16	40HP	125 Amp	03E1927
5RB-F16	50HP	150 Amp	03E1928
6RB-F16	60HP	175 Amp	03E1929
6RB-F16	75HP	200 Amp	03E1930
6RB-F16	100HP	250 Amp	03E2959
6YB-F16	25HP	80 Amp	03E1924
6YB-F16	30HP	100 Amp	03E1925
6YB-F16	40HP	125 Amp	03E1927

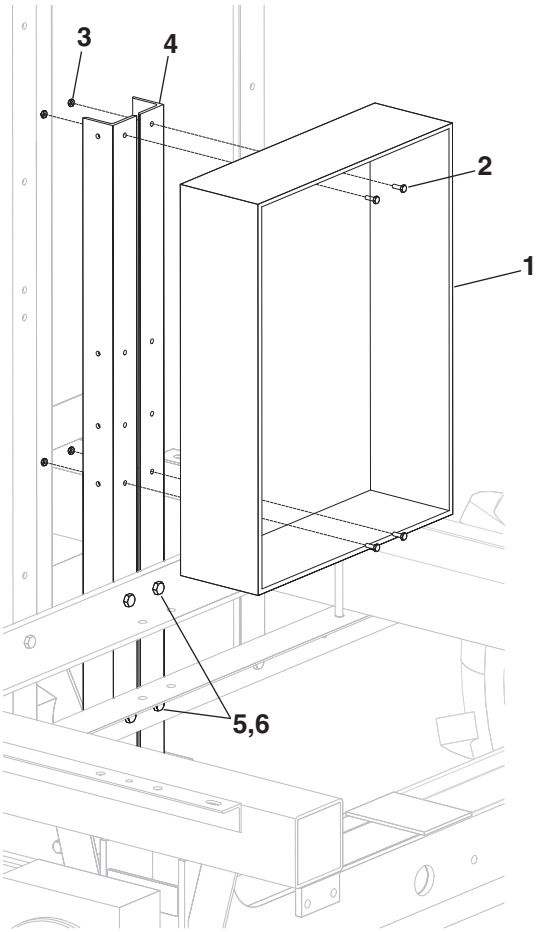
460 VOLT 60 HZ DISCONNECT PANEL FUSES			
Pump	Motor	Fuse	Part #
4RB	15HP	60 AMP	03E1923
4RB	20HP	70 AMP	03E1912
6YB, 4RB	25HP	80 AMP	03E1924
6YB, 4RB, 5YB	30HP	100 AMP	03E1925
6YB, 5RB	40HP	110 AMP	03E1926
5RB	50HP	125 AMP	03E1927
6RB	60HP	150 AMP	03E1928
6RB	75HP	175 AMP	03E1929
6RB	100HP	225 AMP	03E1931

ITEM	DESCRIPTION	PART #
1	Disconnect Panel - 60A	03E2926
	- 100A	03E2532
	- 200A	03E2534
	- 400A (shown above)	03E2929
2	Box Mount - Horizontal Angle	9363705
3	3/8" x 1" Cap Screw	0161045
4	3/8" Flat Washer	0142031
5	3/8" Lock Nut	0133006
6	5/16" x 1-1/4" Cap Screw	0161051
7	5/16" Flat Washer	0142017

ITEM	DESCRIPTION	PART #
8	5/16" Lock Nut	0133005
9	Box Mount - Vertical Angle	9363706
10	1/2" x 1-1/4" Cap Screw	0161027
11	1/2" Lock Nut	0133005
	Strain Relief Hub - for 60A 4Ga.	03E2949
	- for 100 & 200A 1Ga.	03E2950
	- for 200A 2/0Ga.	03E2951
	- for 400A 4/0Ga.	03E2952

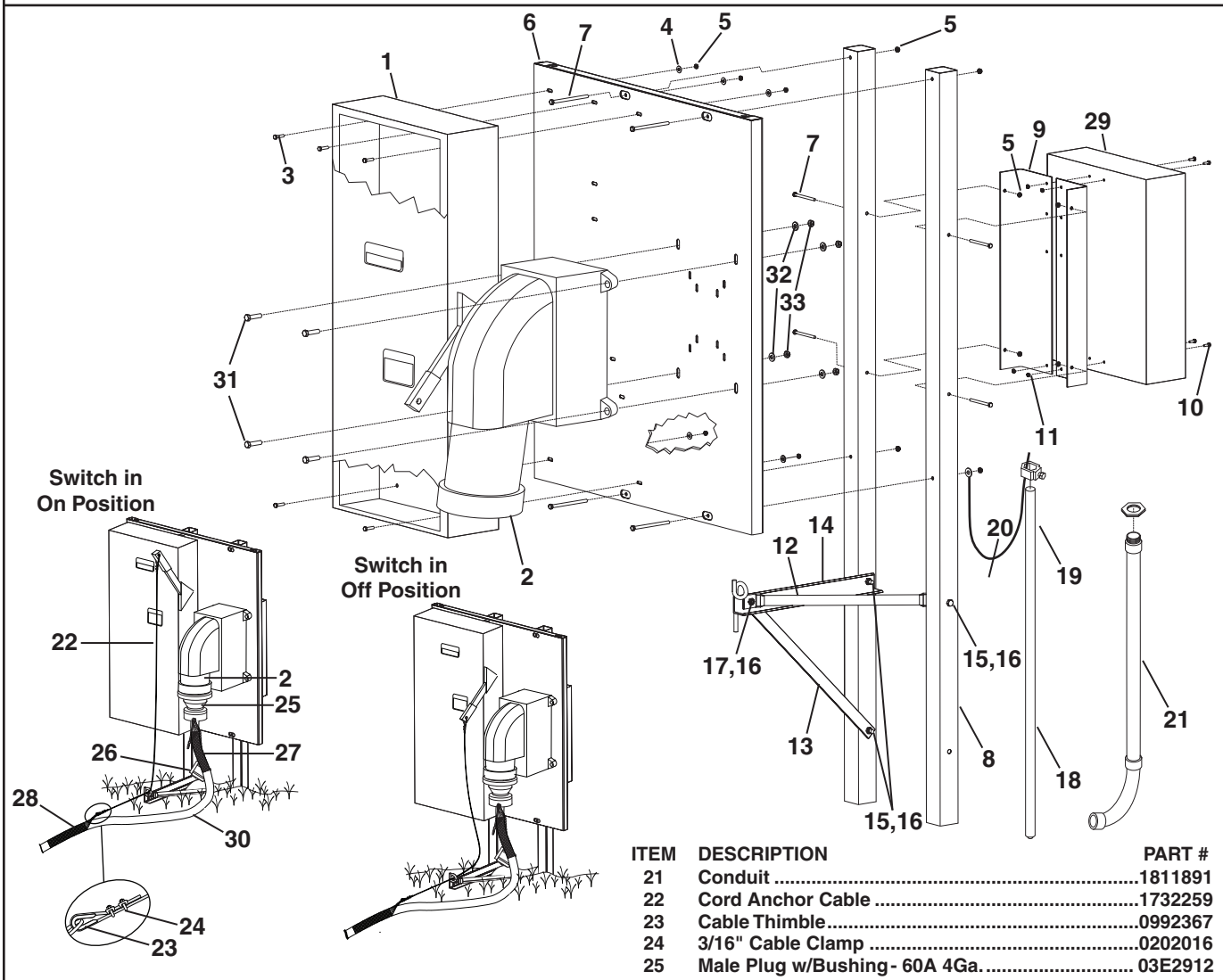
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ITEM	DESCRIPTION	PART #
1	Junction Box - 200A (for 60A, 100A & 200A Box)	03E2886
	Junction Box - 400A (for 400A Box)	03E2887
2	1/4" x 3/4" Cap Screw	0161057
3	1/4" Lock Nut	0133008
4	Long Safety Vertical Angle	9363708
5	1/2" x 1-1/4" Cap Screw	0161027
6	1/2" Lock Nut	0133005

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ITEM	DESCRIPTION	PART #
1	Disconnect Box - 60 Amp	03E2926
	- 100 Amp	03E2532
	- 200 Amp	03E2534
	- 400 Amp (shown above)	03E2929
2	Receptacle - 60 Amp	03E2922
	- 100 Amp	03E2923
	- 200 Amp	03E2924
	- 400 Amp (shown above)	03E2925
3	5/16" x 1-1/4" Cap Screw	0161051
4	5/16" Flat Washer	0142017
5	5/16" Lock Nut	0133007
6	Pedestal Panel Assm.	9363726
7	5/16" x 4" Cap Screw	0161181
8	Vertical Mounting Tube	9363720
9	Junction Box Mount	9363723
10	1/4" x 3/4" Cap Screw	0161057
11	1/4" Lock Nut	0133008
12	Horizontal Brace	1732285
13	Vertical Brace	1732287
14	Cable Anchor Assm.	9363727
15	1/2" x 4" Cap Screw	0161020
16	1/2" Lock Nut	0133005
17	1/2" x 1" Cap Screw	0161028
18	Ground Rod	0314910
19	Ground Clamp	0314911
20	Ground Wire	1701950

ITEM	DESCRIPTION	PART #
21	Conduit	1811891
22	Cord Anchor Cable	1732259
23	Cable Thimble	0992367
24	3/16" Cable Clamp	0202016
25	Male Plug w/Bushing - 60A 4Ga.	03E2912
	- 100A 1Ga.	03E2914
	- 200A 1Ga.	03E2915
	- 200A 2/0Ga.	03E2916
	- 400A 4/0Ga.	03E2918
26	Cup Cap - 60 Amp	03E2900
	- 100 Amp	03E2919
	- 200 Amp	03E2920
	- 400 Amp	03E2921
27	Double Eye Cord Grip - 60A 4Ga.	03E2888
	- 100A & 200A 1Ga.	03E2889
	- 200A 2/0Ga.	03E2890
	- 400A 4/0Ga.	03E2891
28	Offset Eye Cord Grip - 60A 4Ga.	03E2892
	- 100A & 200A 1Ga.	03E2893
	- 200A 2/0Ga.	03E2894
	- 400A 4/0Ga.	03E2895
29	Junction Box - 200 Amp (for 60A,100A & 200A)	03E2886
	- 400 Amp	03E2887
30	See Cable Chart on following page.	

HARDWARE USED BELOW DETERMINED BY RECEPTACLE SIZE

31	1/2" x 2" Cap Screw (400A Panel ONLY)	0161024
	5/16" x 1-1/4" C.S. (60A, 100A & 200A Panels)	0161051
32	1/2" Flat Washer (400A Panel ONLY)	0142025
	5/16" Flat Washer (60A, 100A & 200A Panels)	0142017
33	1/2" Lock Nut (400A Panel ONLY)	0133005
	5/16" Lock Nut (60A, 100A & 200A Panels)	0133007

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CORD DRAG CABLE KITS

Motor Used		Pedestal		Cart			
		Junction Box to Disconnect	Disconnect to Receptacle	Disconnect to Junction Box	Junction Box to Control Panel	Junction Box to Pump Panel	Pump Panel to Pump Motor
15hp	Kit #	KA09938	KA09941	KA09944	KA09945	KA09947	KA09950
	Rating	60 Amp 4 Ga.	60 Amp 4 Ga.	60 Amp 4 Ga	60 Amp 8 Ga. & 14 Ga.	60 Amp 8 Ga. & 14 Ga.	60 Amp 8 Ga.
20-30hp	Kit #	KA09939	KA09942	KA09939	KA09945	KA09948	KA09951
	Rating	100 Amp 3 Ga.	100 Amp 3 Ga.	100 Amp 3 Ga.	60 Amp 8 Ga. & 14 Ga.	100 / 200 Amp 4 Ga. & 14 Ga.	100 Amp 6 Ga.
40hp	Kit #	KA09940	KA09943	KA09940	KA09945	KA09948	KA09952
	Rating	200 Amp 2/0 Ga.	200 Amp 2/0 Ga.	200 Amp 2/0 Ga.	60 Amp 8 Ga. & 14 Ga.	100 / 200 Amp 4 Ga. & 14 Ga.	200 Amp 6 Ga.
50hp	Kit #	KA09940	KA09943	KA09940	KA09945	KA09948	KA09953
	Rating	200 Amp 2/0 Ga.	200 Amp 2/0 Ga.	200 Amp 2/0 Ga.	60 Amp 8 Ga. & 14 Ga.	100 / 200 Amp 4 Ga. & 14 Ga.	200 Amp 4 Ga.
60hp	Kit #	KA09940	KA09943	KA09940	KA09945	KA09949	KA09954
	Rating	200 Amp 2/0 Ga.	200 Amp 2/0 Ga.	200 Amp 2/0 Ga.	60 Amp 8 Ga. & 14 Ga.	200 Amp 1 Ga. & 14 Ga.	200 Amp 2 Ga.
75hp	Kit #	KA09940	KA09943	KA09940	KA09946	KA09949	KA09955
	Rating	200 Amp 2/0 Ga.	200 Amp 2/0 Ga.	200 Amp 2/0 Ga.	200 / 400 Amp 6 Ga. & 14 Ga.	200 Amp 1 Ga. & 14 Ga.	200 Amp 1 Ga.
100hp	Kit #	KA09964	KA09965	KA09964	KA09946	KA09966	KA09967
	Rating	400 Amp 3/0 Ga.	400 Amp 3/0 Ga.	400 Amp 3/0 Ga.	200 / 400 Amp 6 Ga. & 14 Ga.	400 Amp 2/0 Ga. & 14 Ga.	400 Amp 2/0 Ga.

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GUIDANCE

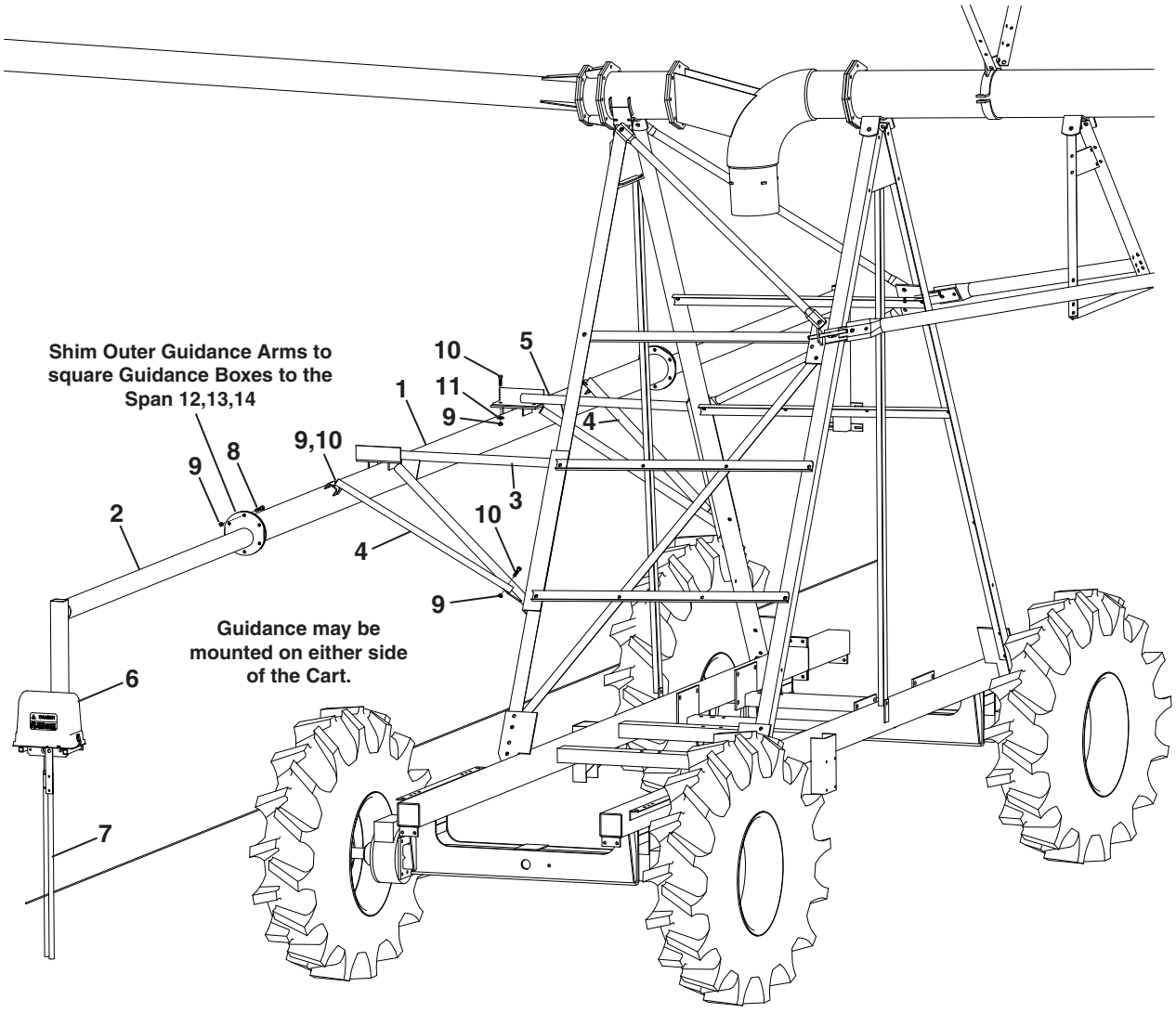
Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
Above Ground Guidance	06-06	4-3
Steering/Safety Box	08-18	4-4
Cable and Posts	06-06	4-5
Guidance Cable and Cable Splices	06-06	4-6
Furrow Guidance & Mounts	06-06	4-7
Furrow Guidance Steering Box and Linkage	06-06	4-8
Furrow Guidance D / U Mounted	06-06	4-9
Furrow Guidance Switch Box	12-17	4-10
Blank Page	10-15	4-11
Below Ground Guidance	06-06	4-12
Below Ground Guidance	12-15	4-13
Oscillator Enclosure-Below Ground Guidance	05-18	4-14
Solar Powered Oscillator Pedestal	04-19	4-15
Guidance Controls	06-06	4-16
Linear Span Tower Box	09-18	4-17
SF 3000 GPS Guidance Recvr. & Control Panel Mount. - DISC. Dec. 12	02-19	4-18
SF 3000 GPS Guidance Reference Station Mounting - DISC. Dec. 12	09-17	4-19
NavCom3050 GPS Guidance Receiver & Control Panel Mounting	02-19	4-20
NavCom3050 GPS Guidance Reference Station Mntg. & Cable Routing	09-17	4-21
NavCom3050 GPS Guidance In-Panel	09-17	4-22
NavCom3050 GPS Tower Box	09-17	4-23
NavCom3050 GPS Guidance 900 MHz Repeater Mounting	09-17	4-24
GPS Guidance Control Panel	02-19	4-25
Trimble GPS Antenna & Control Panel Mounting	02-19	4-26
Power Box - 480/120 VAC In to 12VDC Out	08-17	4-27
900 MHz Trimble GPS Guidance In-Panel	03-17	4-28
Centerfeed GPS 900 MHz Trimble Tower Box	03-17	4-29
GPS 900 MHz Trimble GPS Reference Station	03-17	4-30
902-928MHz Freewave SSR RS232 Radio Box	09-17	4-31
Centerfeed Trimble GPS Mounting	03-12	4-32
Centerfeed Trimble GPS Cable Routing	03-13	4-33
2.4 GHz Freewave SSR - RS232 Radio Box - INTERNATIONAL ONLY	09-17	4-34
916-928MHz Freewave SSR - RS232 Radio Box - INTL ONLY	10-17	4-35
900 MHz Single-Frequency Trimble GPS Receiver Station	09-17	4-36
2.4 GHz Single-Freq. Trimble GPS Receiver Station - INTL ONLY	09-17	4-37
916-928MHz Single-Freq. Trimble GPS Receiver Station - INTL ONLY	10-17	4-38
Centerfeed Single-Frequency GPS Cable Routing	02-19	4-39
Centerfeed GPS Guidance In Panel	02-19	4-40
Endfeed GPS Guidance In Panel	02-19	4-41
Single Frequency GPS Shared Reference Station - INTL ONLY	02-19	4-42

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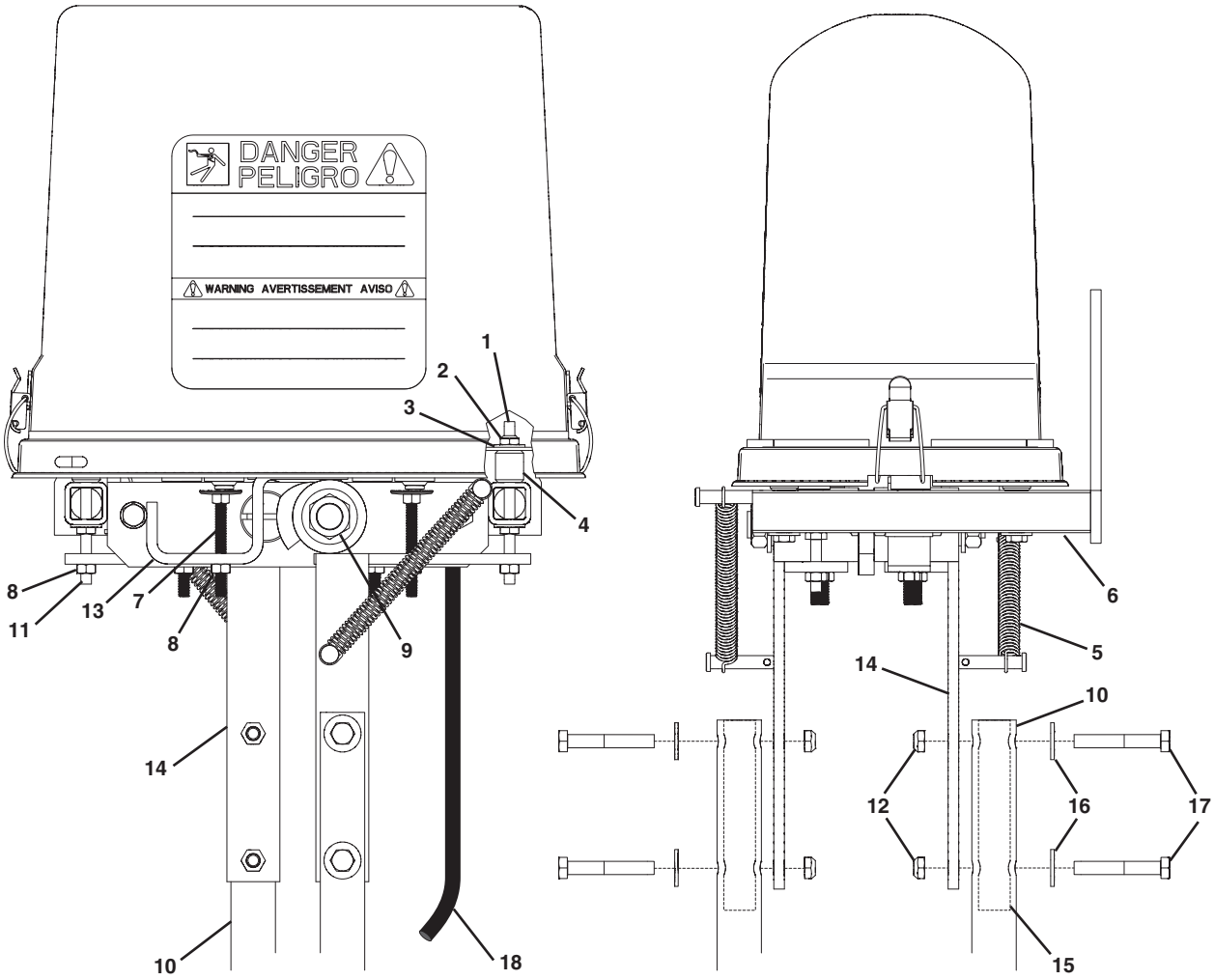
Description	Rev. #	Pg. #
Centerfeed SF3000 GPS Mounting - DISCONTINUED Dec 2012	08-13	4-43
Centerfeed SF3000 GPS Cable Routing - DISCONTINUED Dec 2012	09-17	4-44
Centerfeed NavCom3050 GPS Mounting	09-17	4-45
Centerfeed NavCom3050 GPS Cable Routing	09-17	4-46
Trimble GPS Reference Station Mounting	03-12	4-47
Trimble GPS Reference Station Cable Routing	03-13	4-48

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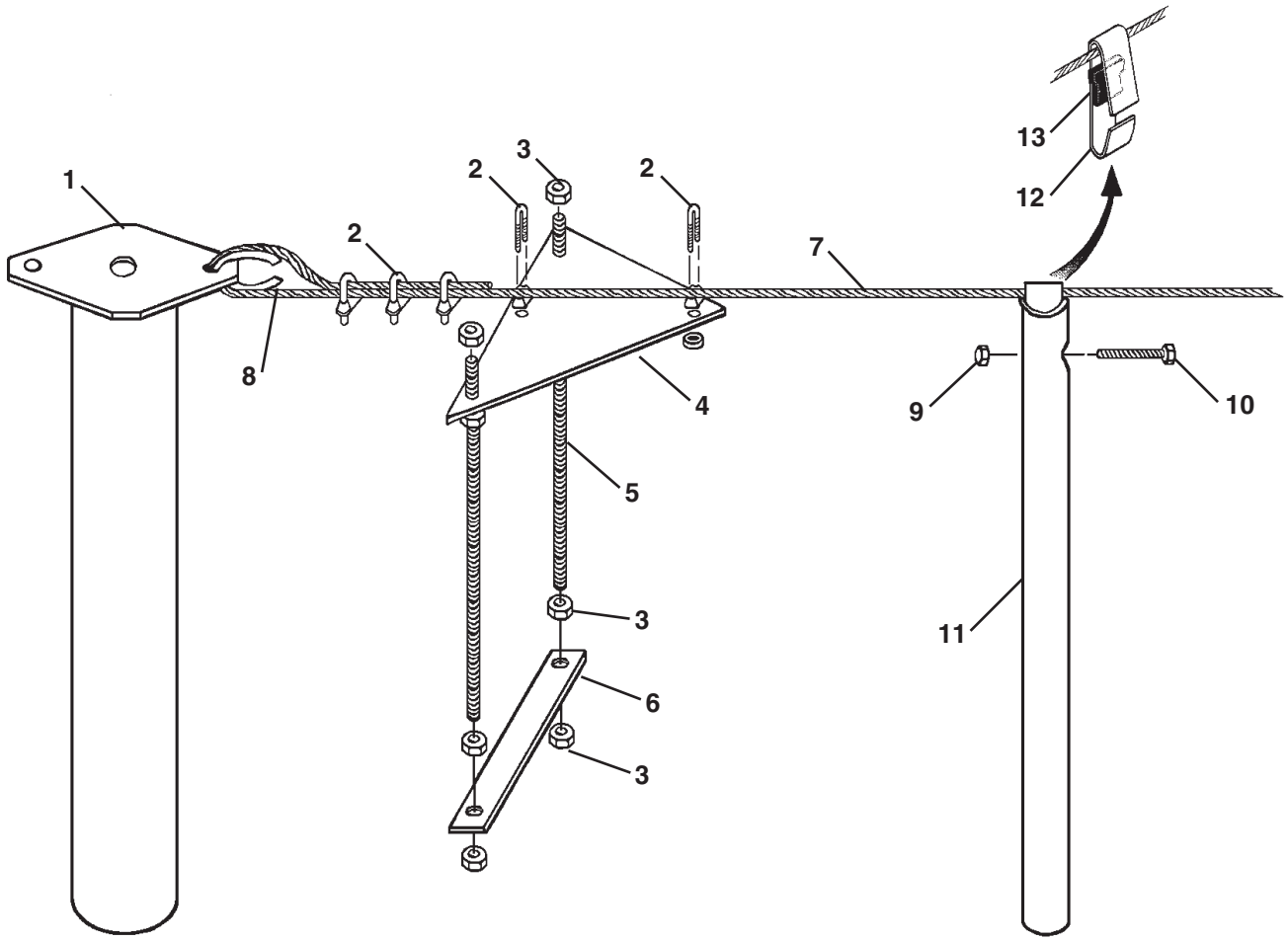
ITEM	DESCRIPTION	PART #
1	Guidance Support Tube	9362412
2	Outer Guidance Tube	9362416
3	Guidance Support, Left	9362423
4	Angle Brace	9362287
5	Guidance Support, Right	9362422
6	Steering Safety Box	1812244
7	Control Arm	1731047
8	1/2" x 1-1/2" Cap Screw	0161026
9	1/2" Lock Nut	0133005
10	1/2" x 1-1/4" Cap Screw	0161027
11	1/2" Flat Washer	0142025
12	Shim, 1/32"	0143048
13	Shim, 1/8"	0143049
14	Shim, 5/32"	0143050

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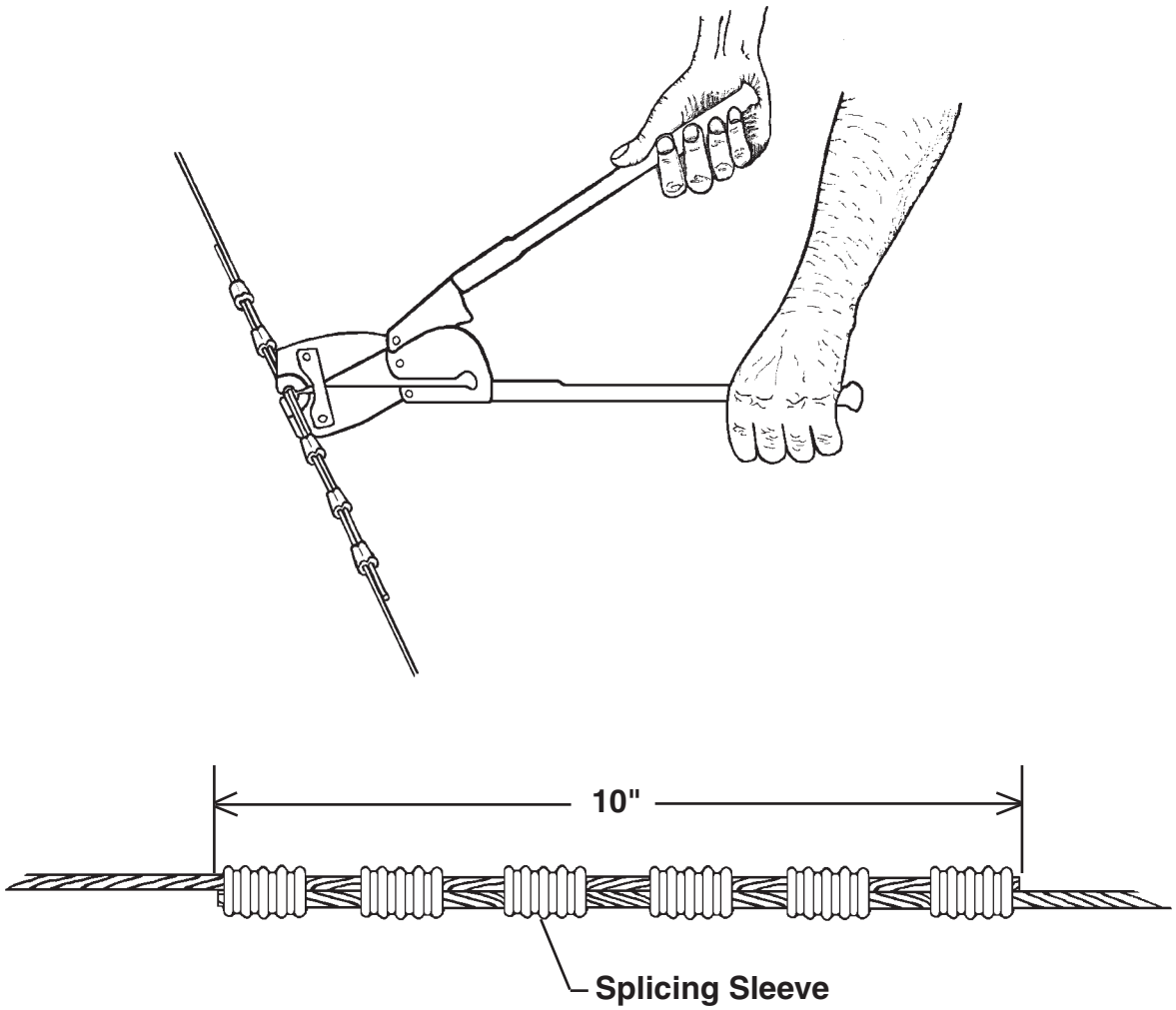
ITEM	DESCRIPTION	PART #
1	1/4" x 2-1/2" Cap Screw	0161054
2	1/4" Lock Nut	0133008
3	1/4" Flat Washer	0142022
4	Spacer Sleeve	1730727
5	Spring	0181089
6	Mounting Bracket Assm.	1730711
7	1/4" x 2-1/2" Elevator Bolt	0164219
8	1/4" Hex Nut	0131020
9	5/8" x 3" Screw - Flat Head	0164138
10	Control Arm Extension	1731047
11	1/4" x 1-1/4" Cap Screw - Full Thread	0161392
12	5/16" Lock Nut	0133007
13	Paddle Safety Switch	1731351
14	Control Arm Sub-Assembly	1731464
15	Arm Bushing	1731048
16	5/16" Flat Washer	0142017
17	5/16" x 2" Cap Screw	0161079
18	Electrical Cable 11 Cond. 10 Ga. 27' Long	1811641
	Steering Safety Box Assm.	1812244

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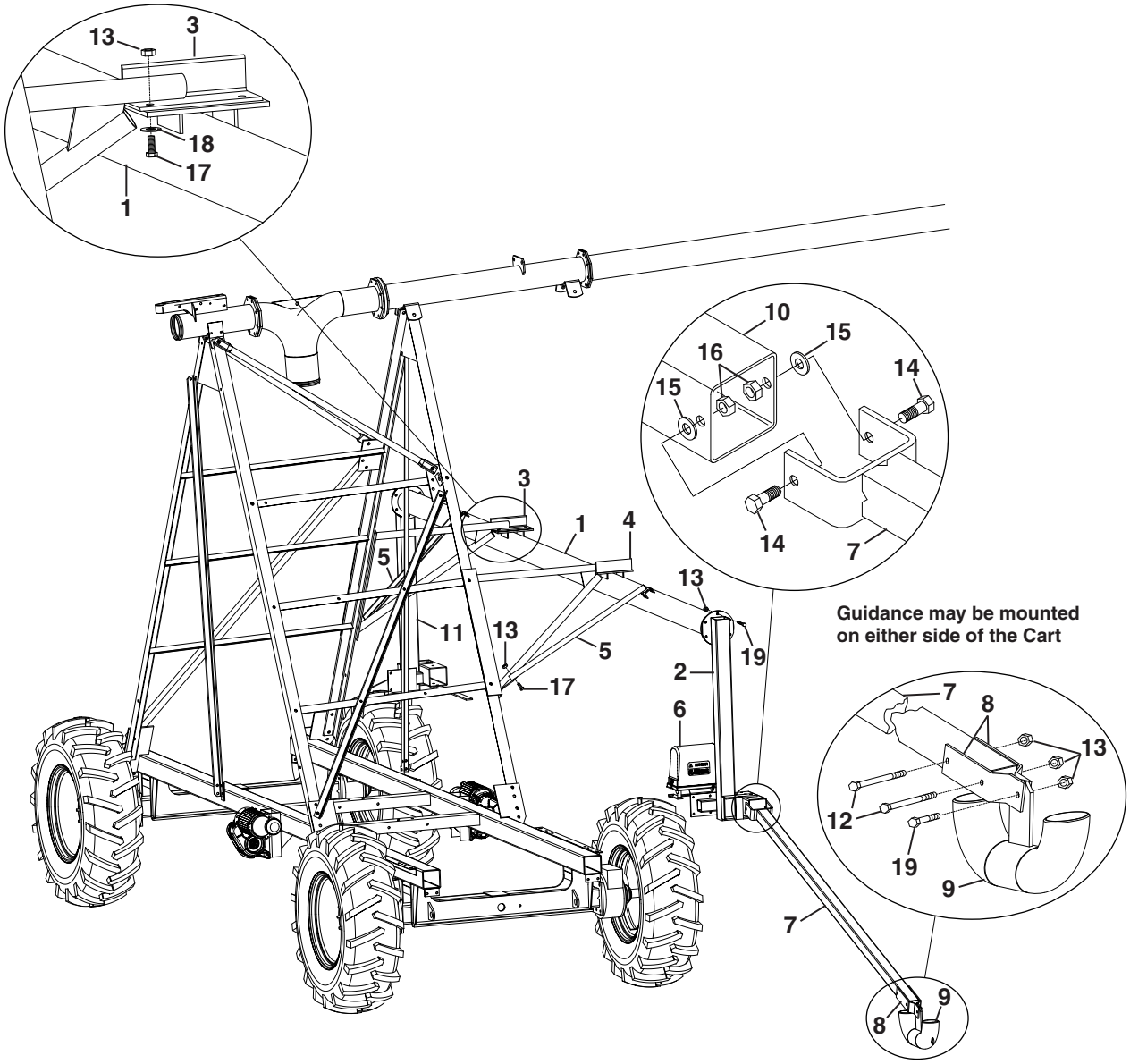
ITEM	DESCRIPTION	PART #
1	Cable Anchor Post	1732057
2	3/16" Cable Clamp	0202016
3	3/4" Hex Nut	0131008
4	End of Field Stop	1732073
5	Guide Rod 3/4" - 10 NC x 3' Long	0036024
6	Counter Balance	1732072
7	Cable (5,000 Ft.) 3/16 x 1 x 7	0201005
8	3/16" Cable Thimble	0202026
9	1/4" Lock Nut	0133008
10	1/4" x 1-1/4" Cap Screw	0161183
11	Support Stake	1732070
12	Wire Clip	1760420
13	Wire Clip Spacer	1760421

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DESCRIPTION	PART #
2,000' Cable	1730702
500' Cable	1730701
3/16" Splicing Sleeve	0992532

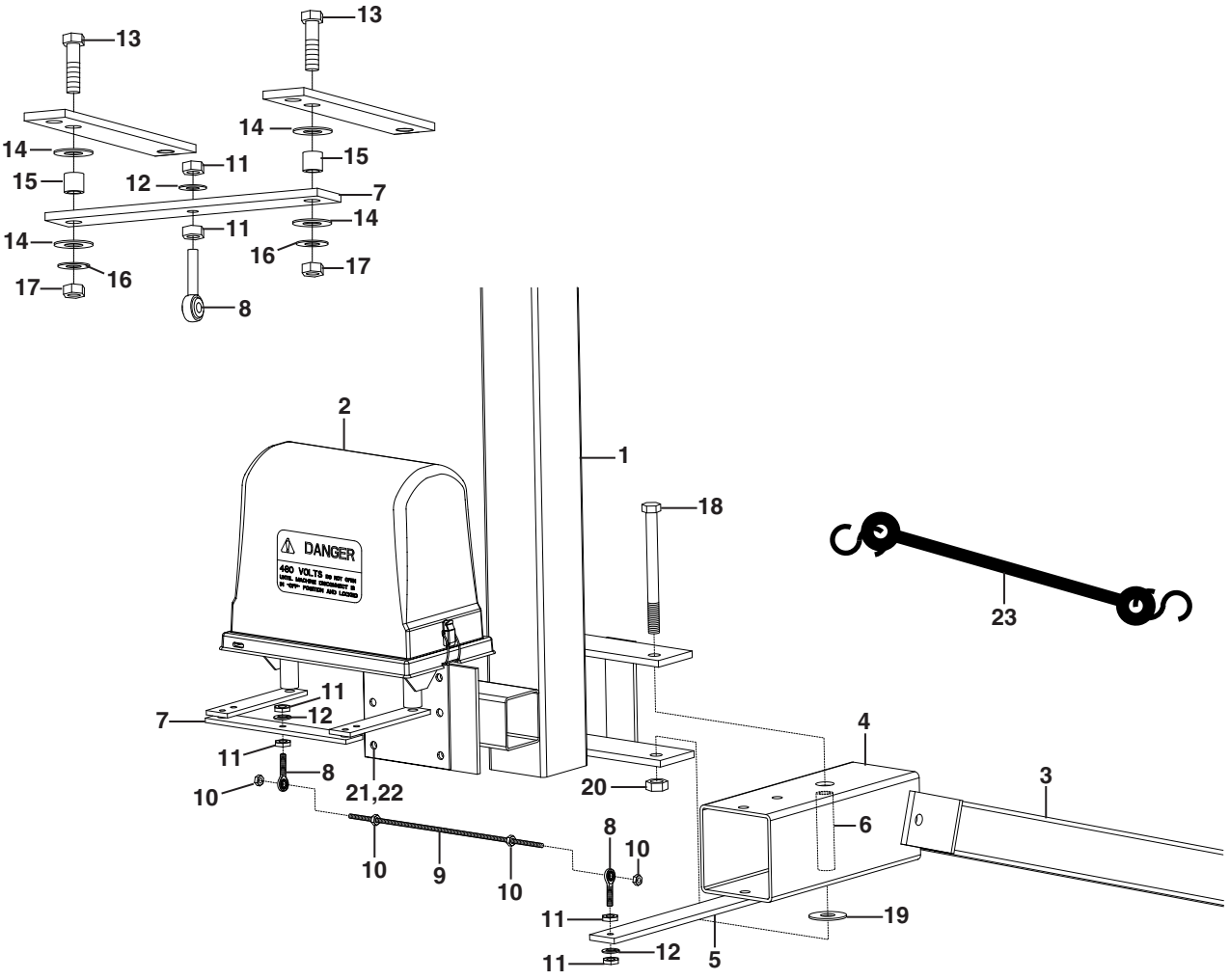
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ITEM	DESCRIPTION	PART #
1	Guidance Support Tube	9362412
2	Front Vertical Mount	9362572
3	Guidance Support - Left	9362423
4	Guidance Support - Right	9362422
5	Angle Brace	9362287
6	Steering Box	1814132
7	Guidance Arm	9362553
8	Skid Mount Bar	9332167
9	Skid	9332171
10	Swivel Tube	1732369

ITEM	DESCRIPTION	PART #
11	Rear Vertical Mount	9362573
12	1/2" x 4-1/2" Cap Screw	0161110
13	1/2" Lock Nut	0133005
14	5/8" x 1-3/4" Cap Screw	0161088
15	5/8" Flat Washer	0142011
16	5/8" Lock Nut	0133010
17	1/2" x 1-1/4" Cap Screw	0161027
18	1/2" Flat Washer	0142026
19	1/2" x 1-1/2" Cap Screw	0161026

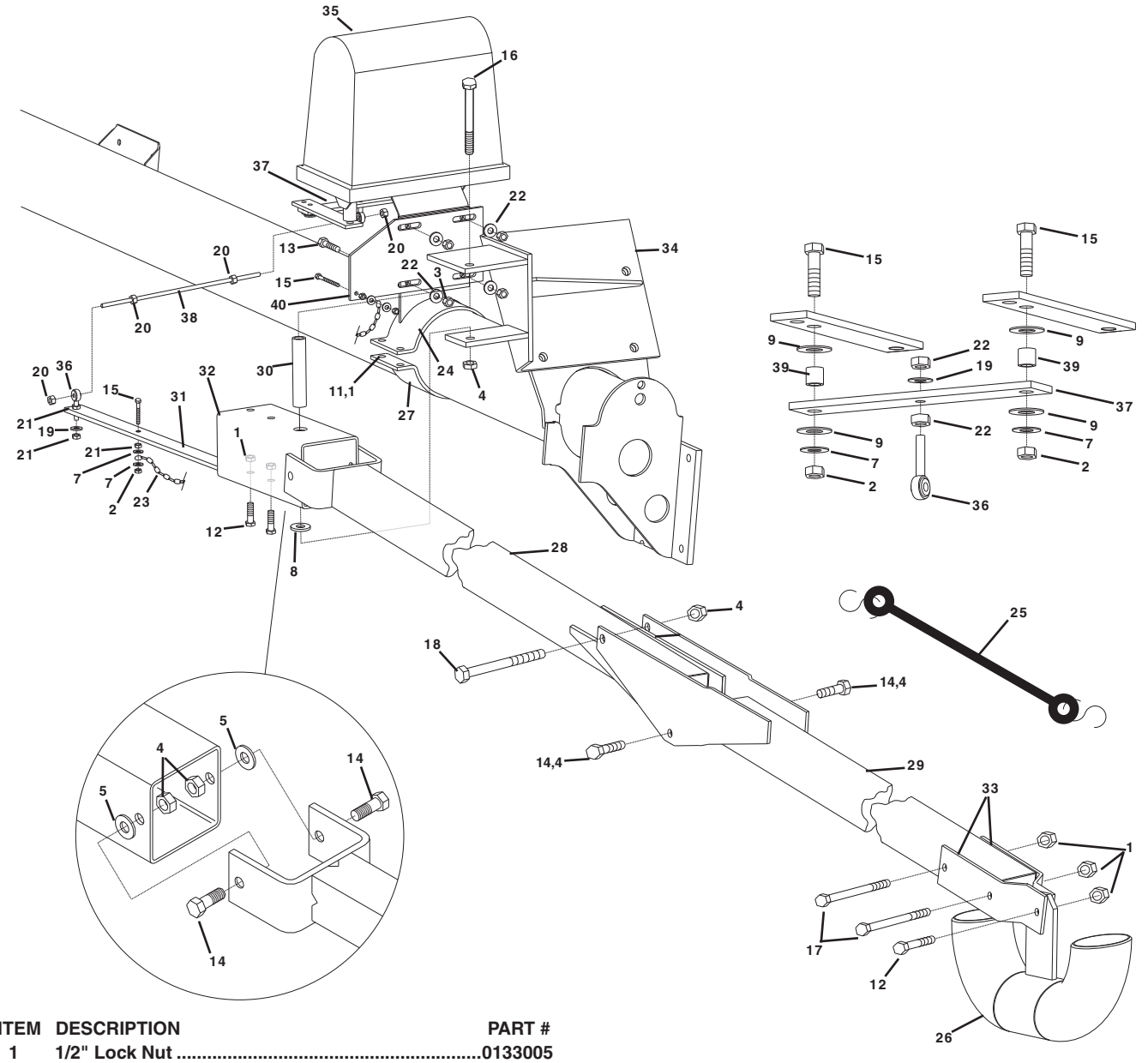
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ITEM	DESCRIPTION	PART #
1	Rear Vertical Mount	9362573
2	Steering Box	1814132
3	Guidance Arm	9362553
4	Swivel Tube	1732369
5	Switch Arm	9362566
6	Pivot Tube	1732361
7	Guidance Link	9332163
8	5/16" Ball Joint Rod End	0992984
9	Adjustment Rod	1731735
10	5/16" - 18UNC S.S. Hex Nut	0131037
11	5/16" - 24UNF S.S. Hex Nut	0131068
12	5/16" Lock Washer	0141008

ITEM	DESCRIPTION	PART #
13	5/16" x 1-1/2" Cap Screw	0161049
14	1/2" Flat Washer	0142026
15	Roller Bushing	1800207
16	5/16" Flat Washer	0142017
17	5/16" Lock Nut	0133007
18	5/8" x 7" Cap Screw	0161104
19	1" Flat Washer	0142020
20	5/8" Lock Nut	0133010
21	3/8" x 1" Cap Screw	0161045
22	3/8" Lock Nut	0133006
23	Rubber Tie Down	0992327

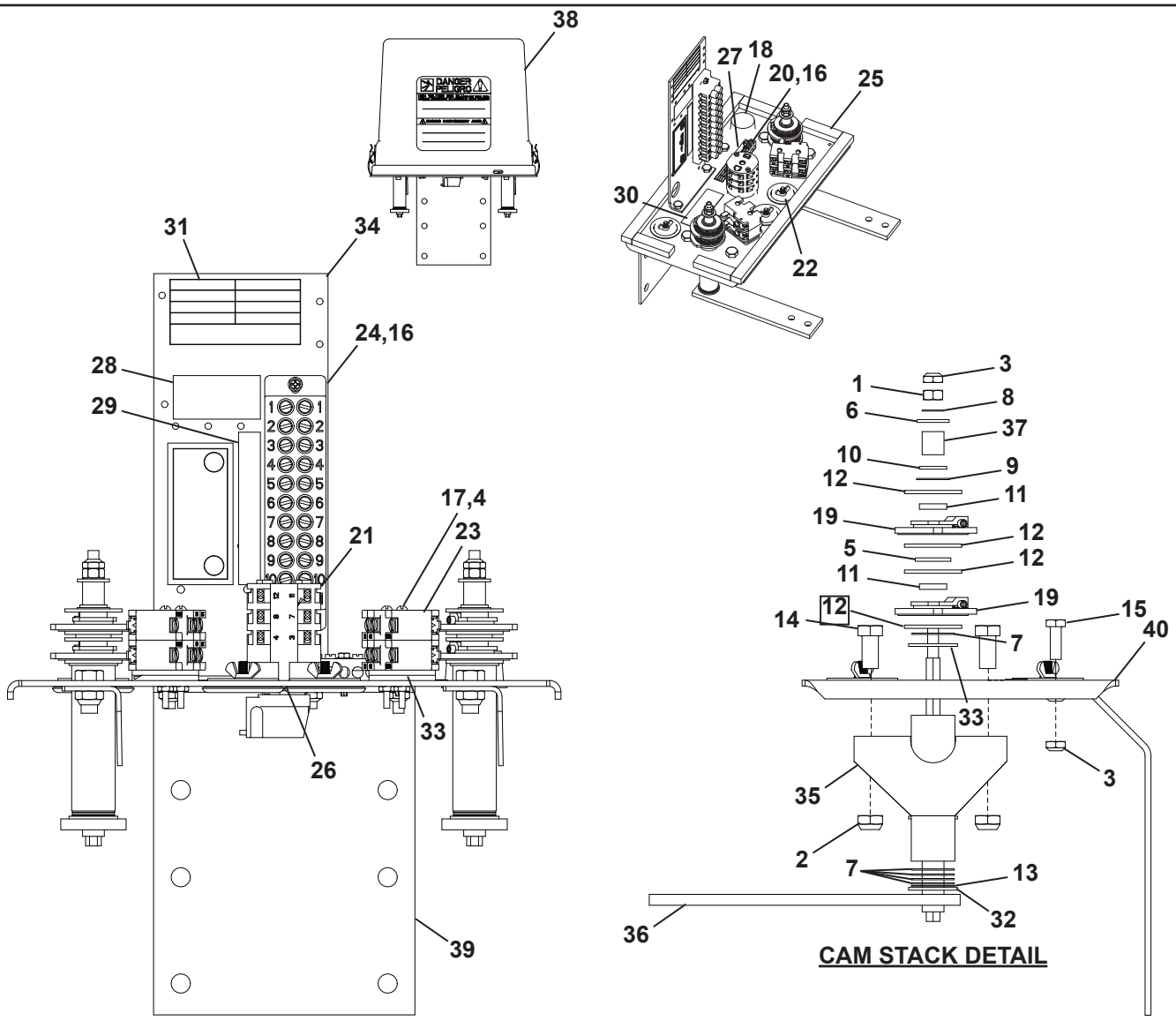
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ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	5/16" Lock Nut	0133007
3	3/8" Lock Nut	0133006
4	5/8" Lock Nut	0133010
5	5/8" Flat Washer	0142011
7	5/16" Flat Washer	0142017
8	1" Flat Washer	0142020
9	1/2" Flat Washer - Wide	0142026
11	1/2" x 2" Cap Screw	0161023
12	1/2" x 1-1/2" Cap Screw	0161026
13	3/8" x 1" Cap Screw	0161045
14	5/8" x 1-3/4" Cap Screw	0161088
15	5/16" x 1-1/2" Cap Screw	0161049
16	5/8" x 7" Cap Screw	0161104
17	1/2" x 4-1/2" Cap Screw	0161110
18	5/8" x 5-1/2" Cap Screw	0161105
19	5/16" Lock Washer	0141008
20	5/16" 18UNC Hex Nut, Stainless Steel	0131037
21	5/16" 24UNF Hex Nut, Stainless Steel	0131068
22	3/8" Flat Washer	0142031
23	Chain, 11 Links	0323065

ITEM	DESCRIPTION	PART #
24	Universal Linear Switch Box Mount	9332166
25	Rubber Tie Down	0992327
26	Skid Assembly	9332171
27	Clamp, 4" Wide Galvanized 6-5/8" Dia.	1700622
28	Rear Guidance Tube	1732350
29	Front Guidance Tube - Drive Unit Mounted	1732357
	Front Guidance Tube - 2 Wheel Linear	9361541
30	Pivot Tube	1732361
31	Guidance Arm	9332164
32	Swivel Tube	1732369
33	Skid Mount Bar	9332167
34	Pivot Mount Bracket, Right Hand (Shown)	1780845
	Pivot Mount Bracket, Left Hand	1780844
35	Furrow Guidance Switch Box Assembly	1814132
36	5/16" Ball Joint Rod End	0992984
37	Guidance Link	9332163
38	Adjustment Rod	1731735
39	Roller Bushing	1800207
40	Stop Plate	9361293

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CAM STACK DETAIL

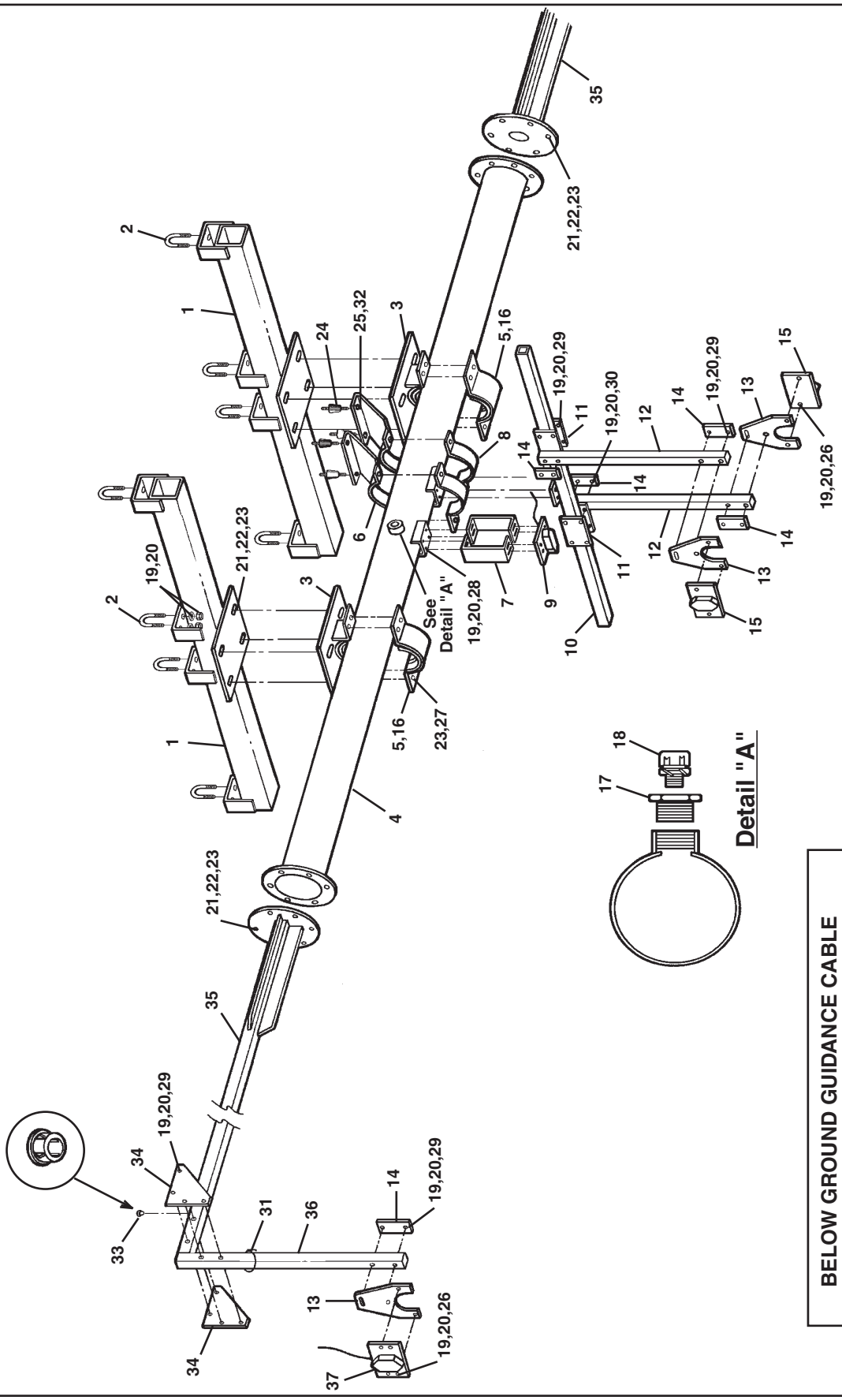
ITEM	DESCRIPTION	PART #
1	1/4" Hex Nut	0131020
2	3/8" Lock Nut	0133006
3	1/4" Lock Nut	0133008
4	#6 Hex Nut	0134027
5	13/32" Flat Washer	0141035
6	1/4" Flat Washer	0142022
7	Washer .030 x .510 x .968 - Stainless Steel	0143047
8	1/4" Belleville Washer - Stainless Steel	0143054
9	3/8" Belleville Washer - Stainless Steel	0143055
10	Washer .625 x .375 x .062 - Stainless Steel	0143059
11	Washer .625 x .375 x .125 - Stainless Steel	0143060
12	5/16" Washer - Hex Hole	0143062
13	Washer .010 x .512 x .996 - Stainless Steel	0143066
14	3/8" x 3/4" Cap Screw	0161046
15	1/4" x 3/4" Cap Screw	0161057
16	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
17	#6 x 2-1/4" Machine Screw - Round Head	0164090
18	Caplug 15X	0261010
19	Adjustable CAM	0314630
20	Ground Lug	0315120
21	Disconnect Switch	0315746

ITEM	DESCRIPTION	PART #
22	Hole Seal - 1" Hole	03E0175
23	Micro Switch - Minimum Travel	03E0307
24	Terminal Block	03E1899
25	Gasket Kit	0992071
26	Decal - Disconnect	0992090
27	Decal - Ground	0992925
28	Decal - UL Circuit Supply	0994147
29	Decal - Copper Wire ONLY	0994836
30	Decal - 3R Enclosure	0996403
31	Decal - Terminal Block Torque Copper Wire	0998450
32	Sensor Arm Washer	1701269
33	Sensor Insulator Base	1701632
34	Vertical Bracket	1702053
35	Sensor Bearing w/Bushing Assm.	1703336
36	Universal Linear Cam Shaft Assm.	1731734
37	Spacer	1760479
38	Tower Box Cover - UL	9311146
39	Universal Linear Mounting Plate	9332172
40	Universal Linear Box Bottom Plate	9332173
	COMPLETE Furrow Guidance Switch Box	1814132

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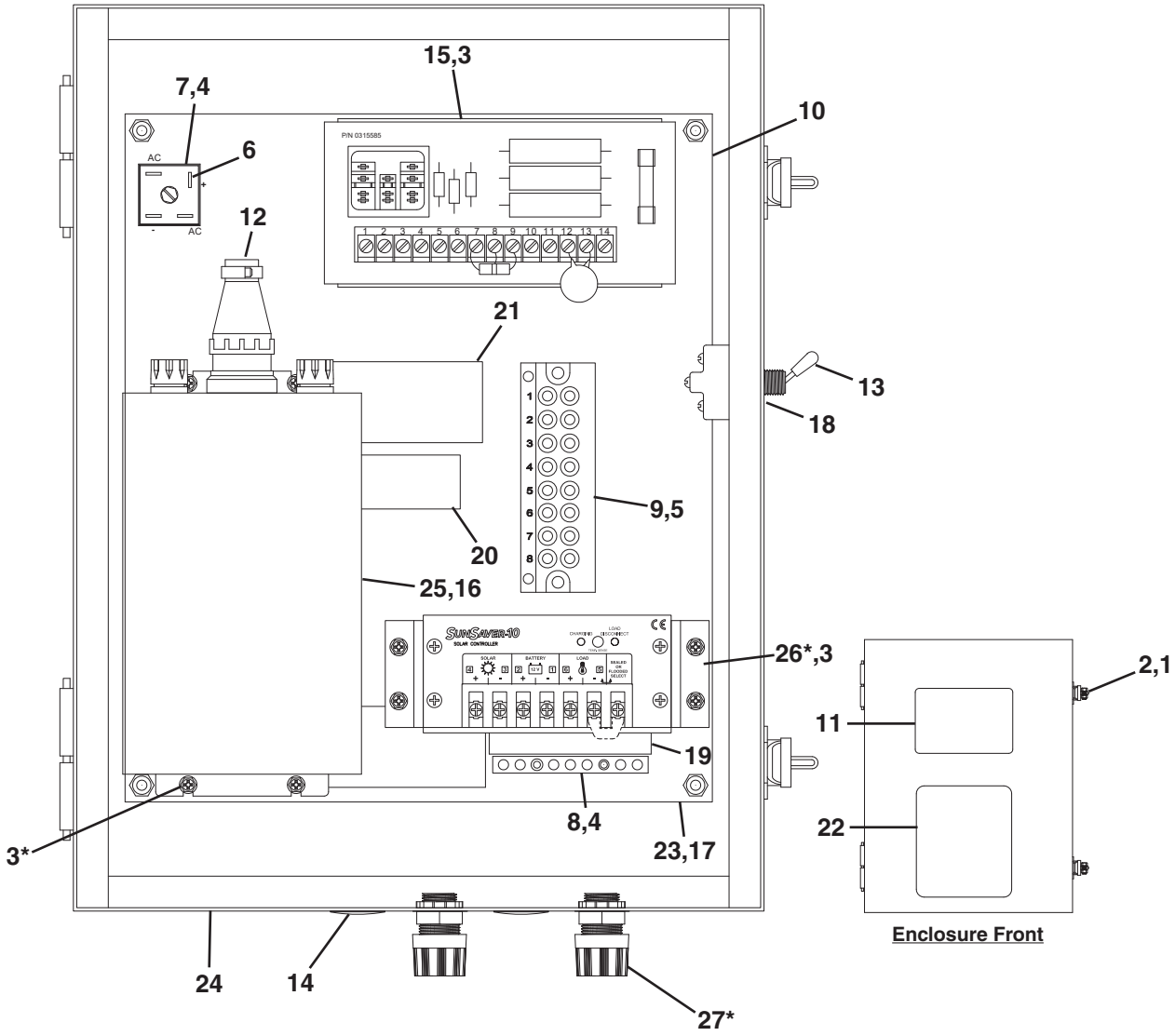


BELOW GROUND GUIDANCE CABLE		
Length	Shielded	Non-Shielded
5,000'	03E2661	03E2662
9,200'	0314964	0314730
11,000'	0314966	0314742
13,000'	0314968	0314786

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ITEM	DESCRIPTION	PART #
1	Truss Rod Mounting Bracket	1732159
2	3/8" x 1-3/4" U-Bolt	0176035
3	Antenna Tube Attach Bracket	1732164
4	Antenna Tube	1732165
5	6-5/8" Half Clamp - Galv.	1700622
6	Control Box Mount	1732171
7	Antenna Mounting Channel	1732189
8	6" Half Clamp - Galv.	1902010
9	833 Hz Antenna w/7' Lead	03E1844
	1000 Hz Antenna w/5' Lead	03M4707
	1200 Hz Antenna w/5' Lead	03M4962
10	Safety & Reference Antenna Assembly	1732160
11	Backing Plate	1732169
12	Safety Antenna Mount	1732170
13	Antenna Mount Bracket	1732163
14	Antenna Drop Strap	1732161
15	833 Hz Antenna w/7' Lead	03E3835
	1000 Hz Safety Antenna w/7' Lead	03E3829
	1200 Hz Safety Antenna w/7' Lead	03E3830
16	Clamp Spacer	1701025
17	2" x 1" Reducing Bushing	0244028
18	Strain Relief	0314466
19	3/8" Lock Nut	0133006
20	3/8" Flat Washer	0142031
21	1/2" x 1-1/2" Cap Screw	0161026
22	1/2" Flat Washer	0142026
23	1/2" Lock Nut	0133005
24	Rubber Mount	0992239
25	5/16" Hex Nut	0131019
26	3/8" x 1-1/4" Cap Screw	0161153
27	1/2" x 2" Cap Screw Full Thread	0161114
28	3/8" x 1" Cap Screw	0161045
29	3/8" x 3" Cap Screw	0161037
30	3/8" x 5" Cap Screw	0161035
31	11" Cable Tie - Black	0314834
32	5/16" Lock Washer	0141008
33	Snap-on Bushing	0992070
34	Antenna Tube Plate	1732167
35	Horizontal Antenna Tube	1732166
36	Antenna Tube	1732162
37	833 Hz Antenna w/30' Lead	03E3836
	1000 Hz Antenna w/30' Lead	03E3831
	1200 Hz Antenna w/30' Lead	03E3832

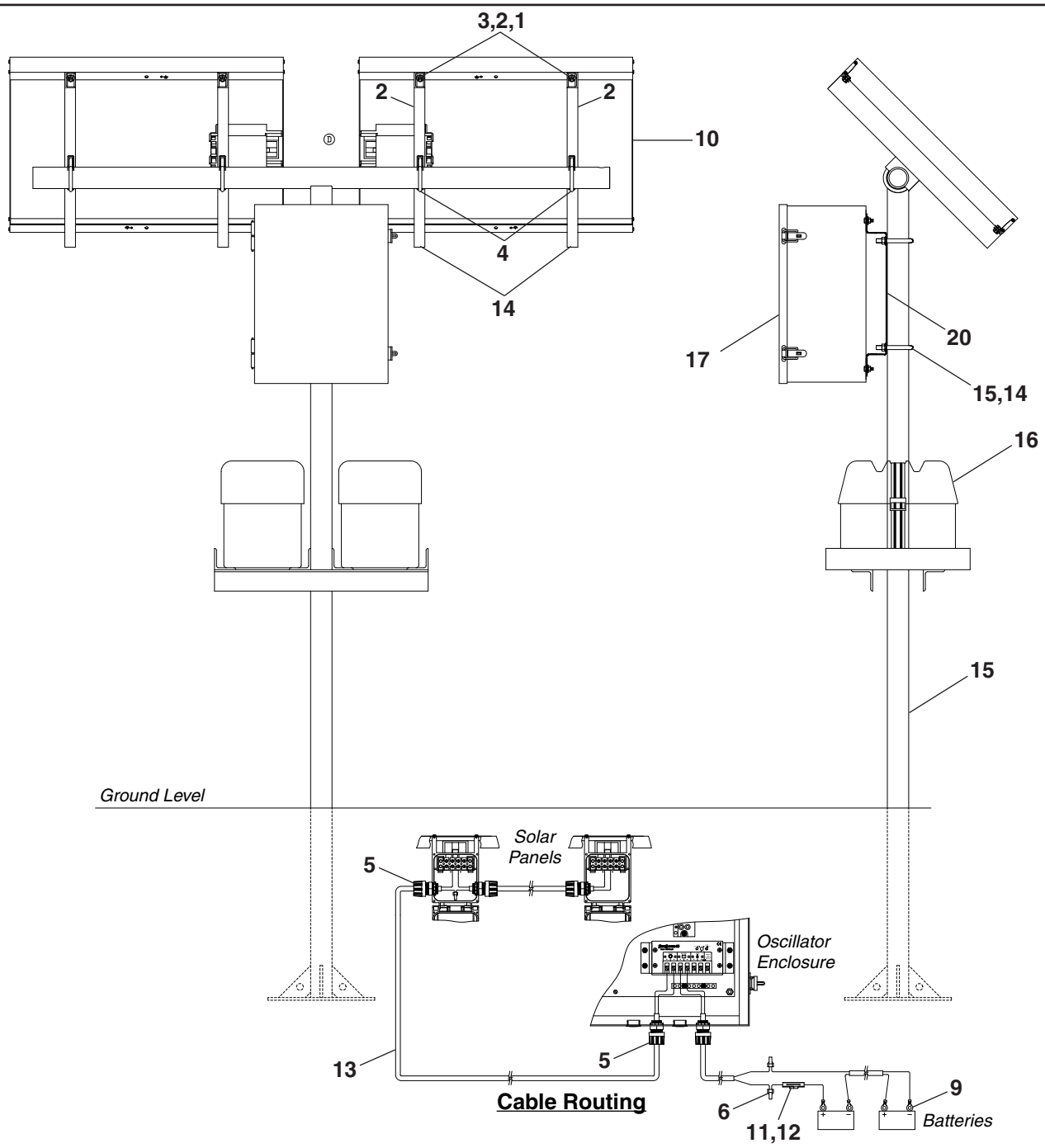
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ITEM	DESCRIPTION	PART #
1	1/4" Hex Nut	0131020
2	1/4" x 1/2" Cap Screw	0161059
3	#8 x 1/2" Self Tapping Screw	0161355
4	#8 x 7/8" Self Tapping Screw	0161356
5	#8 x 1-1/4" Self Tapping Screw	0161357
6	Terminal - Female QC .250 Tab 14-16 AWG	0314566
7	Rectifier Bridge	0314894
8	Ground Lug	0315120
9	Terminal Strip	0315122
10	P.C.B. Expanded Oscillator Protection	0315585
11	Decal - Oscillator Box	0315690
12	Harness Assembly	0315726
13	Toggle Switch	0315734
14	Snap Button Hole Plug	03E2166
15	Snaptrack	0991587
16	Mounting Foot Kit (not shown)	0992697
17	Panel Mounting Kit	0992698
18	Decal - On / Off	0992704

ITEM	DESCRIPTION	PART #
19	Decal - Ground	0992925
20	Decal - UL Circuit Supply 120 Volt 5 Amp	0994147
21	Decal - Terminal Block Torque Copper Wire	0998450
22	Decal - Danger High Voltage/Arc Flash Warning	0999122
23	Mounting Panel	1731046
24	Oscillator Enclosure	1732203
25	1000 Hz Power Oscillator	03E2245
	1200 Hz Power Oscillator	03E2246
26	Solar Regulator w/ Load Disconnect - 24V	03E2586*
	Solar Regulator w/ Load Disconnect - 12V	03E4460*
27	Strain Relief Hub	0314119*
	Oscillator Enclosure Assm. (Does not include Oscillator)	1811730
	* Solar Powered Oscillator Hardware Kit (See following page for remainder of kit contents)	KA00915

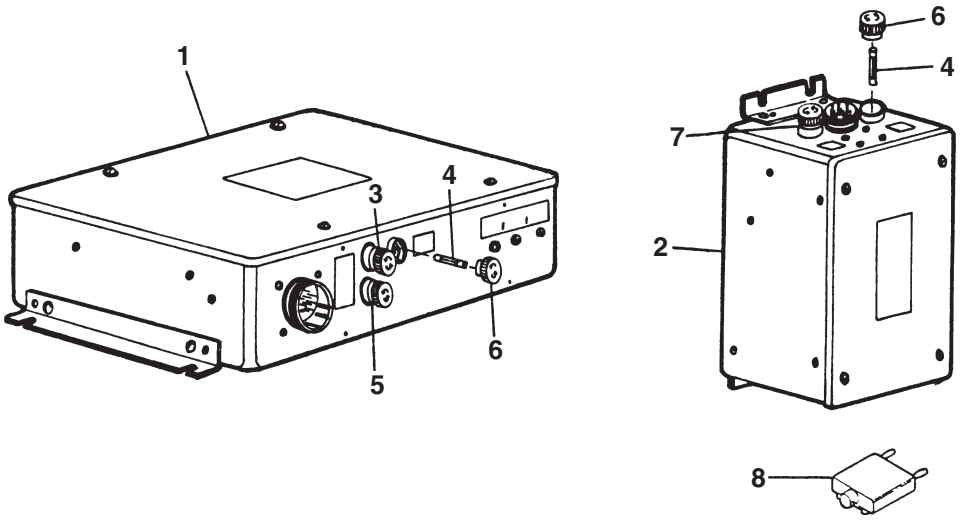
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Cable Routing

ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	1/4" Hex Nut	0131020 *	13	Electrical Cable - 3 Cond. 14 Ga.	9312308 *
2	1/4" Flat Washer	0142022 *	14	3/8" Hex Nut	0134055
3	1/4" x 3/4" Cap Screw	0161057 *	15	3/8" U-Bolt	0176053
4	2" Muffler Clamp - Full Circle	0271070 *	16	Mount Channel	1703671
5	Strain Relief Hub	0314119 *	17	Pedastal Assm.	1703488
6	Scotchlok Connector	0314151 *	18	Battery Case (Batteries not Incl.)	03E0391
7	Tyton Ty Wrap (not shown)	0314225 *	19	Oscillator Enclosure Assm.	1811730
8	Strain Relief Bushing - Nylon (not shown)	0315480 *		(See previous page for contents)	
9	Terminal Ring	03E0393 *	20	Pedestal Mount Bracket	9364988
10	Solar Panel	03E1813 *			
11	Fuse - 10 Amp 250 V	03E1950 *		* Solar Powered Oscillator Hardware Kit	KA00915
12	In-Line Fuseholder	03E2451 *			

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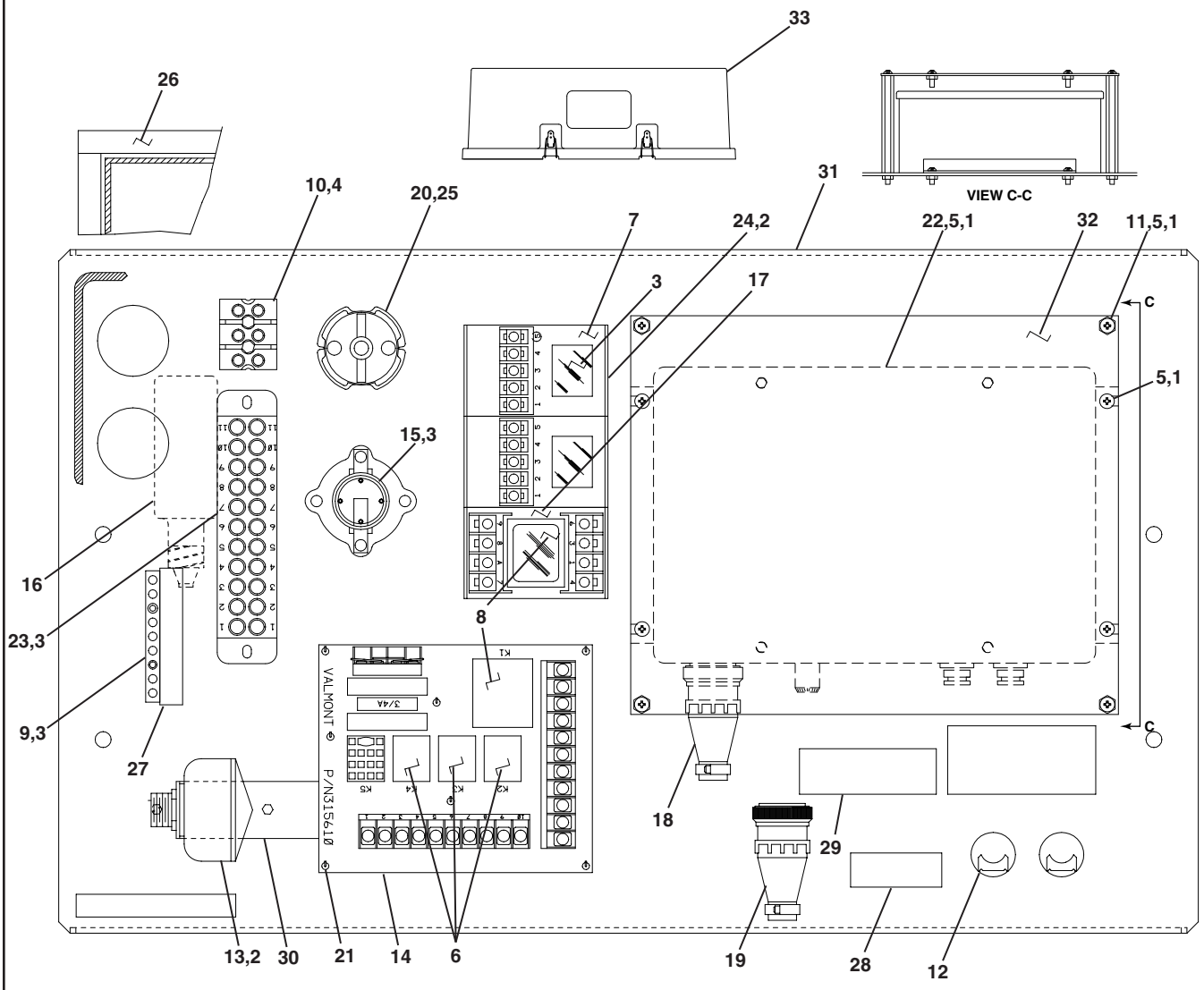


ITEM	DESCRIPTION	PART #
1	Valmont Guidance Receiver (New)	03E1501
	*Rebuilt Guidance Control	03E1546
2	833 Hz Oscillator (New)	03E1845
	*Rebuilt 833 Hz Oscillator	03E1847
	1000 Hz Oscillator (New)	03E1502
	*Rebuilt 1000 Hz Oscillator	03E1543
	1200 Hz Oscillator (New)	03E1503
	*Rebuilt 1200 Hz Oscillator	03E1544
3	3/8 Amp Fuse	0315017
4	3/4 Amp Fuse	0315019
5	5 Amp Fuse	0314859
6	Fuse Holder - OBSOLETE Jun 2016	03M5018
7	1/2 Amp Fuse	0315180
8	Dummy Load Adapter	0992549
	Antenna Attenuator Resistor to Reduce Signal	1812223
	Oscillator Installation Kit	931K007

NOTE: Installation Kit required to install Oscillators in Pivot Control Panel

*Subject to Availability

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ITEM	DESCRIPTION	PART #
1	#8 Hex Nut	0134023
2	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
3	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
4	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
5	#8 x 1/2" Screw - Round Head	0164042
6	Relay - P&B #KHU17A12-120V	0314610
7	PCB Isolation Relay Board	0314830
8	Relay - P&B #KUP14A15-120V AC	0314936
9	Ground Lug	0315120
10	Terminal Strip - 3 Terminal	0315121
11	Male - Female Standoff 3/8"	0315304
12	Strain Relief Bushing	0315480
13	Lightning Arrestor - Hunt #HE500S	0315605
14	PCB Receiver Protection Assembly	0315610
15	Backlite Socket Base	0315619
16	Space Heater	0315620
17	PCB Relay Socket R.D. 8BS	0315688
18	Wiring Harness Phase Safety	0315694
19	Wiring Harness Linear Span	0315721
20	Power Disconnect	0315746
21	Spacer - Snap-In	03E0412
22	Recvr. Phase Safey	03E1547

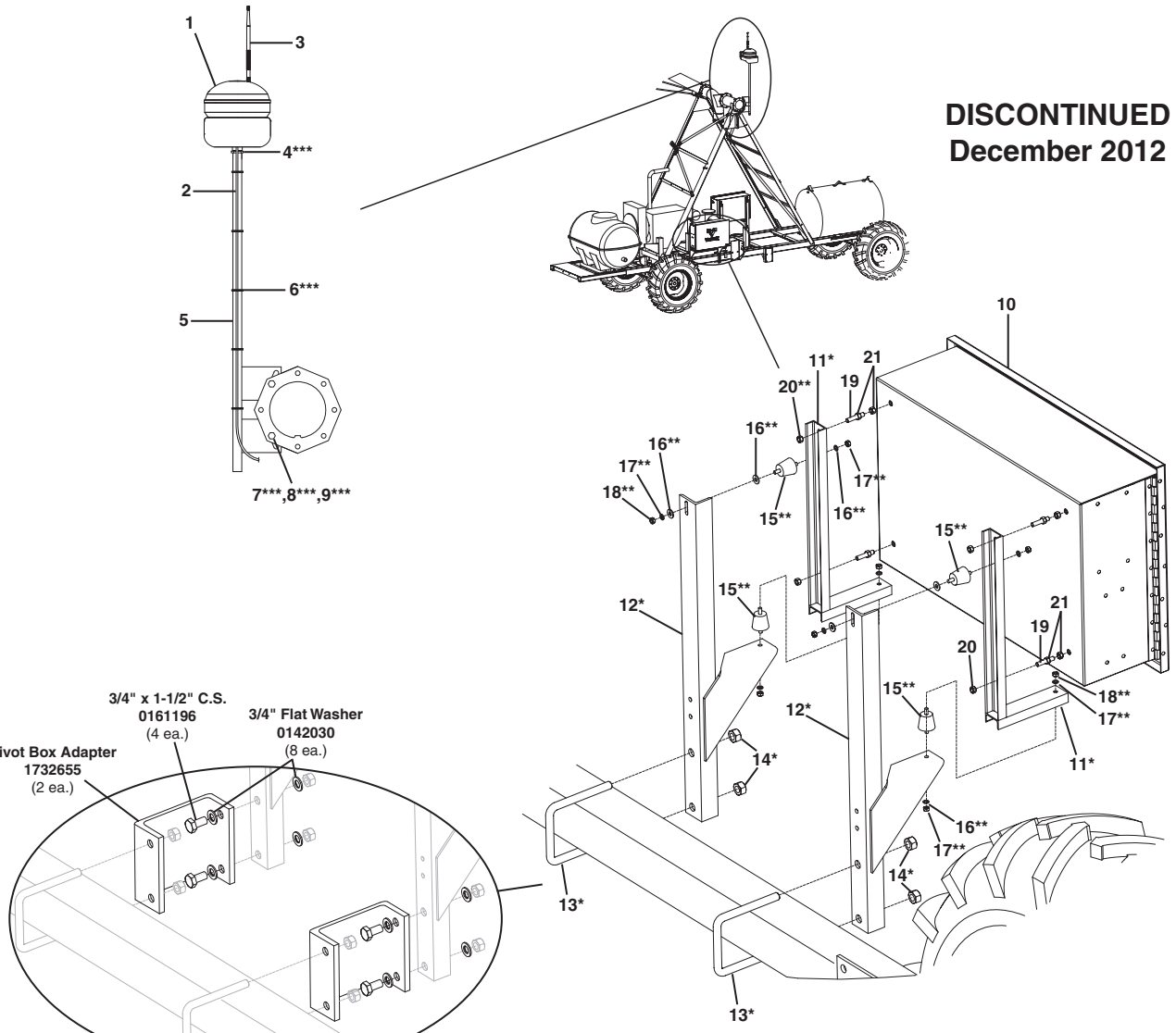
ITEM	DESCRIPTION	PART #
23	Terminal Strip - 11 Terminal	03E1899
24	Snaptrack Mounting Channel 6"	0991587
25	Decal - Disconnect - Tower Box	0992090
26	Gasket - Long Tower Box	0992691
27	Decal - Ground	0992925
28	Decal - UL Power Supply	0994149
29	Decal - Terminal Torque	0998450
30	Electronic Lightning Arrestor Brack	1702384
31	Bottom Plate	1732187
32	Mounting Plate	1732188
33	Span Tower Box Cover Assm.	1750812*
	Decal - Linear Span Tower Box Wiring Schem. (Decal not shown, is shipped w/Box Assm. and field installed)	0999402
	Linear Span Tower Box Assm	1811711

*** Item 2 (1750812) not included in Linear Span Tower Box Assm.**

NOTE: 03E1501 Guidance Receiver (1000 Hz) is used in box 1811711. Receiver needs to be ordered separately and is field installed.

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DISCONTINUED December 2012



Pivot Box Adapter (OPTIONAL)

ITEM	DESCRIPTION	PART #
1	GPS Guidance Receiver (OBSOLETE)	03E2804
****	GPS Guidance Receiver - SF 3000, 900 MHz	03E3138
2	Serial Cable - Starfire 3000 (OBSOLETE Sep 17)	03E3145
3	Antenna - 1 Watt Rubber (OBSOLETE Sep 17)	03E2857
4	3/4" Romax Lock Nut	0315132
5	Short Antenna Mount - Threaded	9363972
6	Wire Tie - Black	03E2004
7	1/2" x 2-1/2" Cap Screw	0161023
8	1/2" Flat Washer	0142025
9	1/2" Lock Nut	0133005
10	SFGPS Guidance Control Panel	9311740
11	Pivot Box Mount Assm.	1781675
12	Pivot Box Support Post Assm.	1730132
13	3/4" x 7" U-Bolt	0176048
14	3/4" Hex Nut	0131008
15	Rubber Mount	0992239
16	5/16" Flat Washer	0142017
17	5/16" Lock Washer	0141008
18	5/16" Hex Nut	0131019
19	3/8" x 2" Threaded Rod - Stainless Steel	0994523
20	3/8" Lock Nut	0131018
21	3/8" Hex Nut	0133006

* Rainger GPS Guidance Panel Mount. Hdwre. Kit ... KA01406
(includes Male to Female Connector - 03E2444,
Female to Female Modem Connector - 03E2810 &
Harness w/Remote Conduit - 9311676 (not shown))
(includes OPTIONAL Pivot Box Adapter & Hdwre shown above)

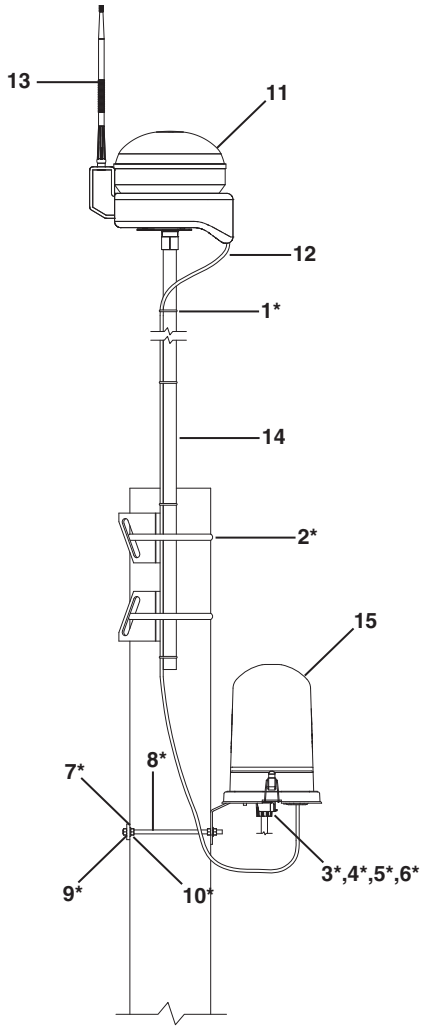
** Ditch Feed Control Panel Mount Hardware Kit KA09129

*** SF 3000 Linear Mounting Hardware Kit KA01407
(above kit OBSOLETE Sep 17)

**** NOTE: GPS Receiver 03E3138 is replacement for OBSOLETED Receiver 03E2804.

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DISCONTINUED
December 2012

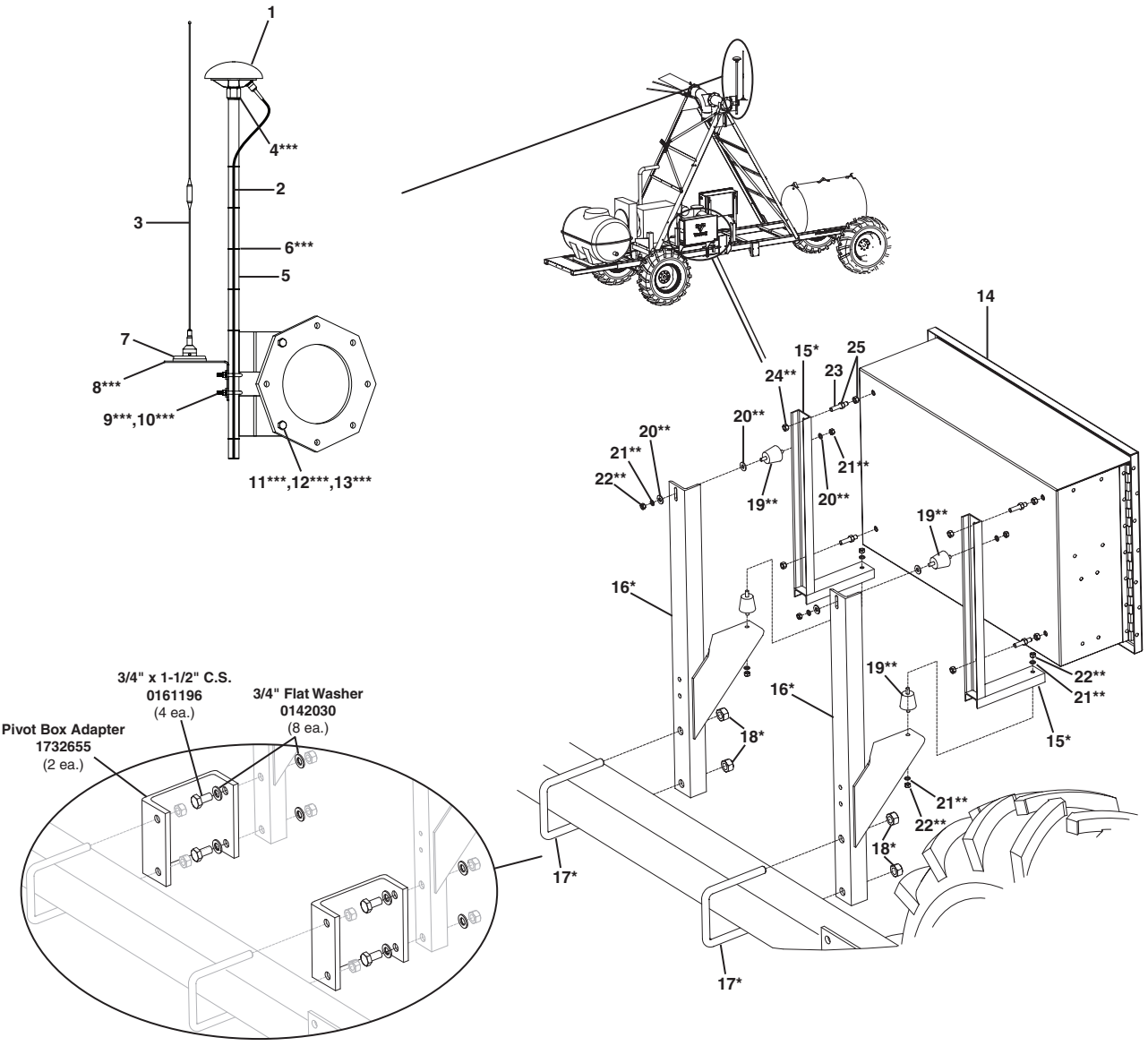


ITEM	DESCRIPTION	PART#
1	Wire Tie - Black	03E2004
2	Clamp - 42"	0271051
3	Strain Relief Hub - .50"	0314119
4	Scotchlok Connector	0314151
5	3/4" Lock Nut - Romax	0315132
6	Shielded Cable - 5 Wire 14 Ga. - OBSOLETE	03E1966
7	Reference Station Mounting Bracket	9363561
8	5/16" Threaded Adjustment Rod	1731232
9	5/16" Hex Nut	0131037
10	1/4" Flat Washer - Wide	0142022
11	GPS Guidance Receiver - OBSOLETE	03E2804
**	GPS Guidance Receiver - SF 3000, 900 MHz	03E3138
12	Serial Cable - Starfire 3000 (OBSOLETE Sep 17)	03E3145
13	Antenna - 1 Watt Rubber (OBSOLETE Sep 17)	03E2857
14	Running Light Bracket Assm.	1781544
15	Power Box Assm. - 480/120 VAC to 12 VDC Out	1814762

* Reference Station Mounting Hardware. Kit (OBSOLETE Sep 17). KA01402

** NOTE: GPS Receiver 03E3138 is replacement for OBSOLETED Receiver 03E2804

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Pivot Box Adapter (OPTIONAL)

ITEM	DESCRIPTION	PART #
1	GPS Guid. Ant. - NavCom3050 GNSS (OBS. Sep 17)	03E3520
2	GNSS Antenna Cable	03E3522
3	Antenna - 400 MHz (OBSOLETE Sep 17)	03E3527
	- 900 MHz	03E3528
4	GPS Antenna Mount	9363922
5	Short Antenna Mount - Threaded	9363972
6	Wire Tie - Black	03E2004
7	Antenna Mount - Magnetic	03E3521
8	Magnetic Mount Antenna Bracket	9311890
9	5/16" U-Bolt (provided w/ 2 Hex Nuts)	0176064
10	5/16" Flat Washer	0142017
11	1/2" x 2-1/2" Cap Screw	0161023
12	1/2" Flat Washer	0142025
13	1/2" Lock Nut	0133005
14	SFGPS Guidance Control Panel	9311740
15	Pivot Box Mount Assm.	1781675
16	Pivot Box Support Post Assm.	1730132
17	3/4" x 7" U-Bolt	0176048
18	3/4" Hex Nut	0131008

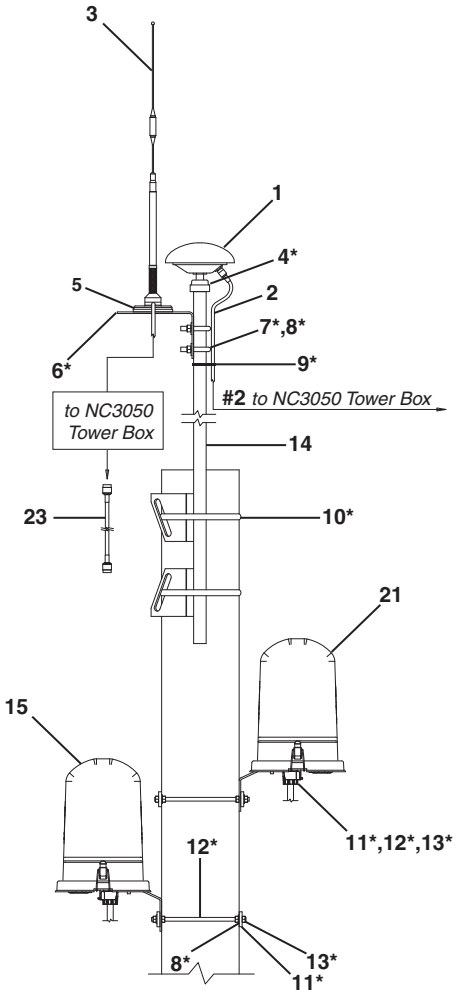
ITEM	DESCRIPTION	PART #
19	Rubber Mount	0992239
20	5/16" Flat Washer	0142017
21	5/16" Lock Washer	0141008
22	5/16" Hex Nut	0131019
23	3/8" x 2" Threaded Rod - Stainless Steel	0994523
24	3/8" Lock Nut	0131018
25	3/8" Hex Nut	0133006

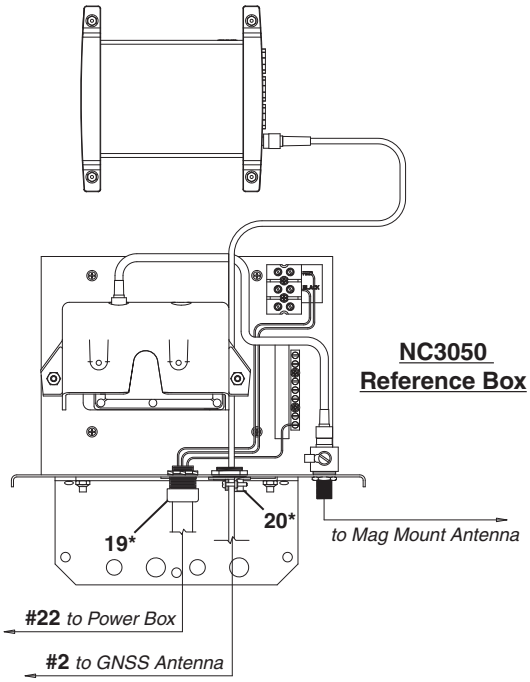
* Rainger GPS Guidance Panel Mount. Hdwre. Kit ... KA01406
(includes Male to Female Connector - 03E2444,
Female to Female Modem Connector - 03E2810 &
Harness w/Remote Conduit - 9311676 (not shown))
(includes OPTIONAL Pivot Box Adapter & Hdwre shown above)

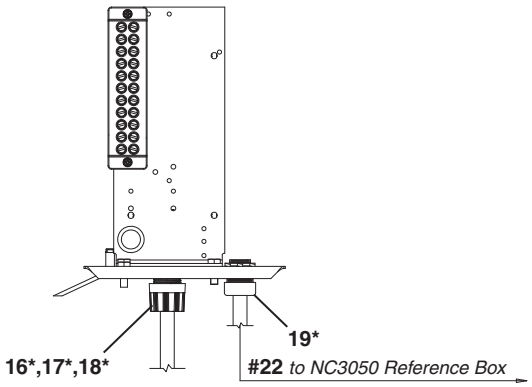
** Ditch Feed Control Panel Mount Hardware Kit KA09129

*** NC3050 Linear Mounting Hardware Kit KA01407
(above kit OBSOLETE Sep 17)
Magnetic Mount & 5db Omni Antenna Kit KA02411
(incl. 900 Mhz 5 db Ant. (03E3528) & Magnetic Ant. Mount 03E3521)

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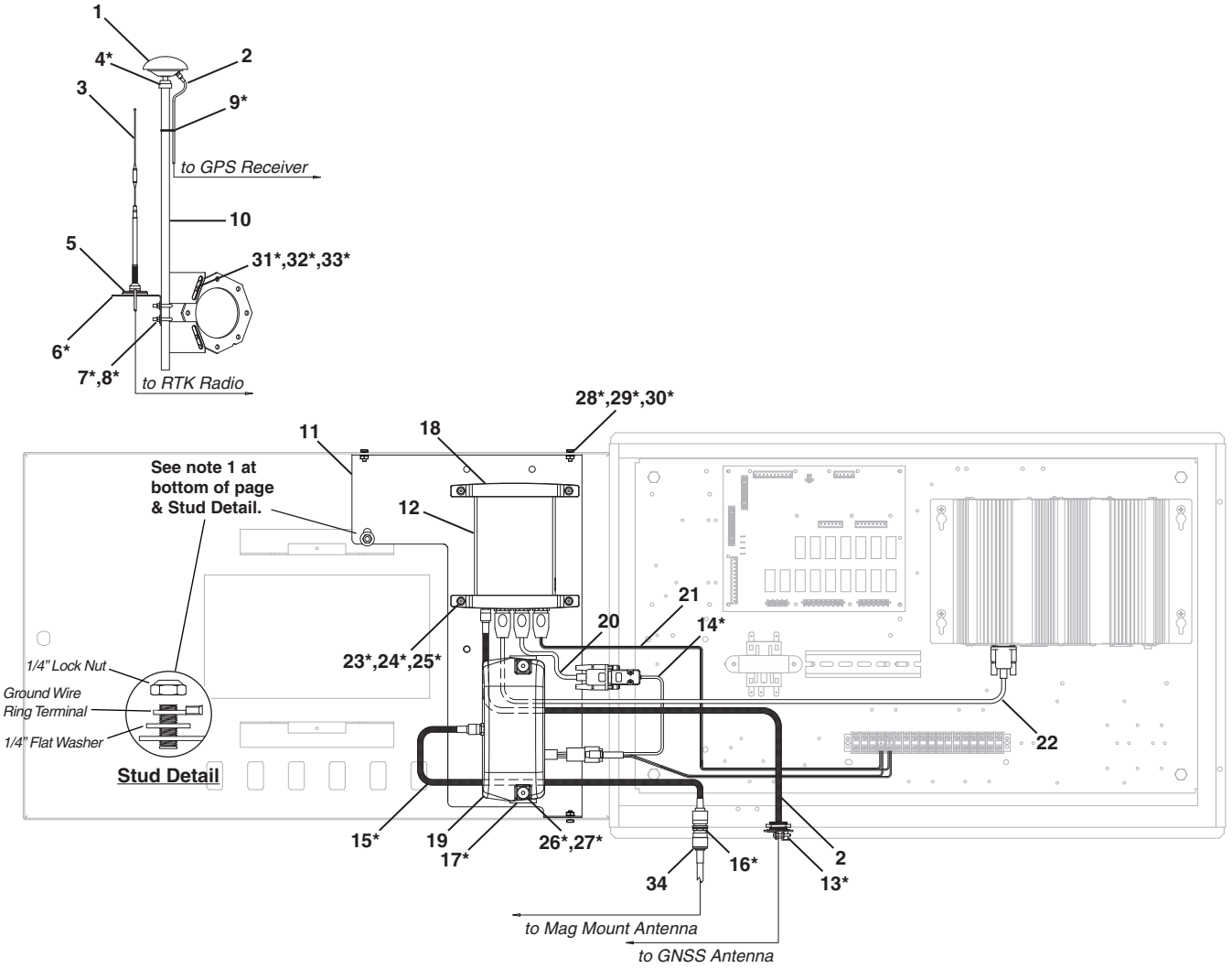
Power Supply Box

ITEM	DESCRIPTION	PART#
1	GPS Guid. Ant. - NavCom3050 GNSS (OBS. Sep 17)	03E3520
2	GNSS Antenna Cable	03E3522
3	Antenna - 400 MHz (OBSOLETE Sep 17)	03E3527
	- 900 MHz	03E3528
4	GPS Antenna Mount	9363922
5	Antenna Mount - Magnetic	03E3521
6	Magnetic Mount Antenna Bracket	9311890
7	5/16" U-Bolt (provided w/ 2 Hex Nuts)	0176064
8	5/16" Flat Washer - Wide	0142017
9	Wire Tie - Black	03E2004
10	Clamp - 42"	0271051
11	Reference Station Mounting Bracket	9363561
12	5/16" Threaded Adjustment Rod	1731232
13	5/16" Hex Nut	0131037
14	Running Light Bracket Assm.	1781544
15	Power Box Assm. - 480/120 VAC in to 12VDC out	1814762
16	Strain Relief Hub - .50"	0314119
17	Scotchlok Connector	0314151
18	3/4" Lock Nut - Romax	0315132
19	Strain Relief Connector	0315502
20	3/4" Romax Cable Connector	03E3163
21	NC3050 Tower Box - 400 MHz (OBSOLETE Sep 17)	1815121
	- 900 MHz (OBSOLETE Sep 17)	1815120
22	Power Cable - 3 Cond. 14 Ga. - 10' Long	1813424
23	Cable - SP-TNC Manel to SP-TNC Female - 15'	03E3126

* NC3050 Ref. Station Mounting Hardware. Kit KA01402
(above kit OBSOLETE Sep 17)
Magnetic Mount & 5db Omni Antenna Kit KA02411
(incl. 900 Mhz 5 db Ant. (03E3528) & Magnetic Ant. Mount 03E3521)

NOTE: Item 23 (Extension Cable) used as required.

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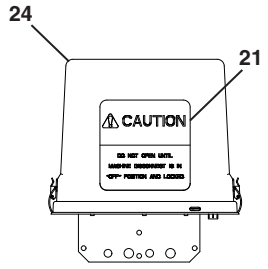
ITEM	DESCRIPTION	PART#
1	GPS Guid. Ant. - NavCom3050 GNSS (OBS. Sep 17)	03E3520
2	Coaxial Cable - Male to 90° Male	03E3114
3	Antenna - 400 MHz (OBSOLETE Sep 17)	03E3527
	- 900 MHz	03E3528
4	GPS Antenna Mount	9363922
5	Antenna Mount - Magnetic	03E3521
6	Magnetic Mount Antenna Bracket	9311890
7	5/16" U-Bolt (provided w/ 2 Hex Nuts)	0176064
8	5/16" Flat Washer	0142017
9	Wire Tie - Black	03E2004
10	Short Antenna Mount - Threaded	9363972
11	Panel Door Bracket	9311874
12	NC3050 Receiver - Programmed (OBS. Sep 17)	03E3526
13	3/4" Romax Cable Connector	03E3163
14	RTK Correction Radio Harness (OBS. Sep 17)	03E3530
15	Antenna Jumper - N Male to SP-TNC Male	03E3539
16	Bulkhead - N-Female	0997247
17	Radio Mounting Bracket (OBSOLETE Sep 17)	9312056
18	NC3050 Mounting Bracket (OBSOLETE Sep 17)	03E3524
19	RTK Radio - 400MHz (OBSOLETE Sep 17)	03E3239
	- 900MHz (OBSOLETE Sep 17)	03E3238
20	9-Pin Male to USB & DB9 Fem.-Y-Cable (OBS. Sep 17)	03E3523
21	9-Pin Female Power Cable (OBSOLETE Sep 17)	03E3529

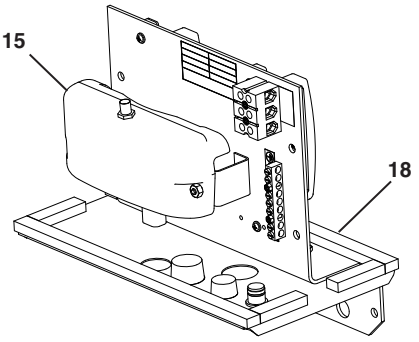
ITEM	DESCRIPTION	PART#
22	9-Pin Male to RJ45 & DB9 Fem.-Y-Cable (OBS. Sep 17)	03E3525
23	#6 x 3/4" Screw - Phillips	0164230
24	#6 Flat Washer	0142074
25	#6 Nut	0134027
26	1/4" x 20mm 2A Flat Screw - Allen Socket	0164234
27	1/4" 2B Hex Nut	0131020
28	#8 x 3/8" Machine Screw 2A	0164110
29	#8 Flat Washer - Stainless Steel	0142084
30	#8 Hex Nut w/External Tooth Lock Washer	0134059
31	1/2" x 2-1/2" Cap Screw	0161023
32	1/2" Flat Washer	0142025
33	1/2" Lock Nut	0133005
34	Cable - N Male to N Female 15' Foot Long	03E3126

* NC3050 Linear Mounting Hardware Kit KA01407
(above kit OBSOLETE Sep 17)
Magnetic Mount & 5db Omni Antenna Kit KA02411
(incl. 900 Mhz 5 db Ant. (03E3528) & Magnetic Ant. Mount 03E3521)

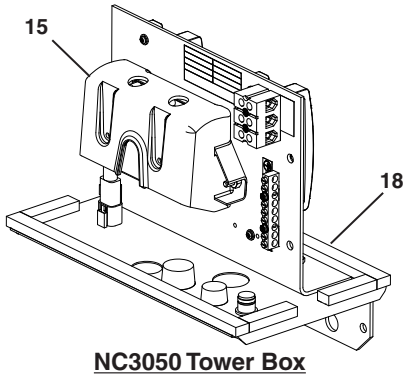
[1] NOTE: If Grounding Stud is present remove Nut before mounting and replace w/ new 1/4" Lock Nut - 0133008 & 1/4" Flat Washer - 0142022.

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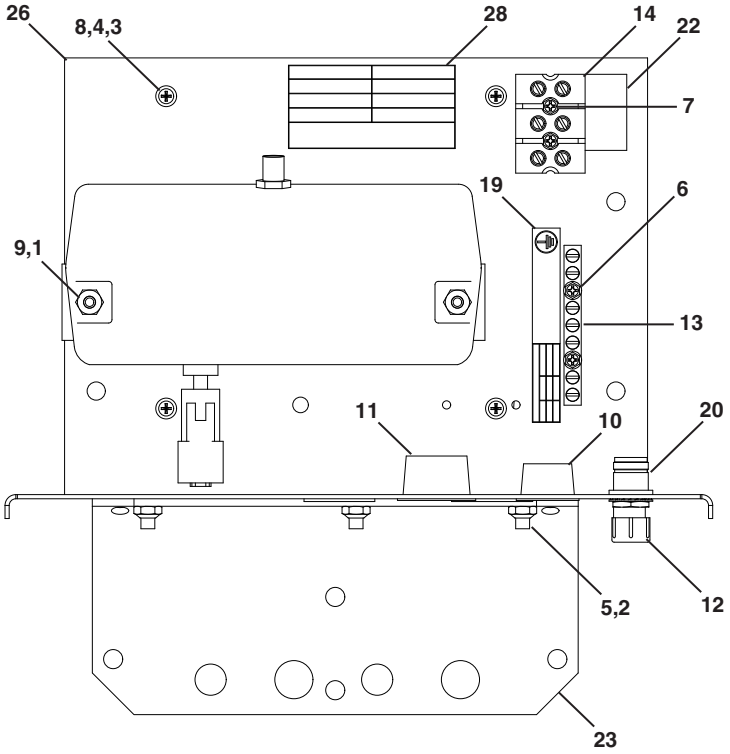


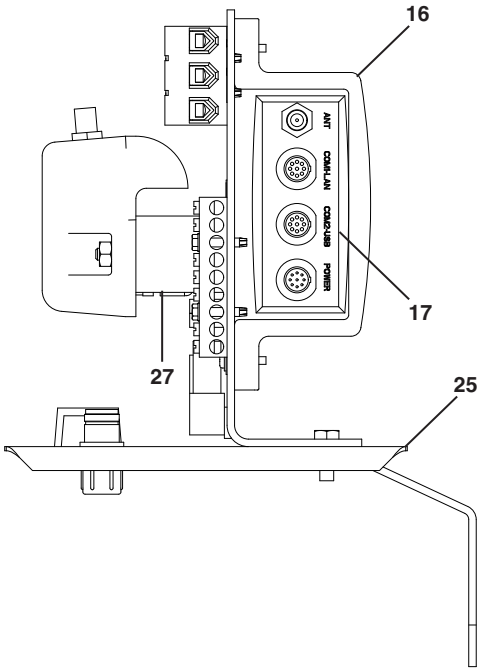


NC3050 Tower Box 400 MHz



NC3050 Tower Box 900 MHz

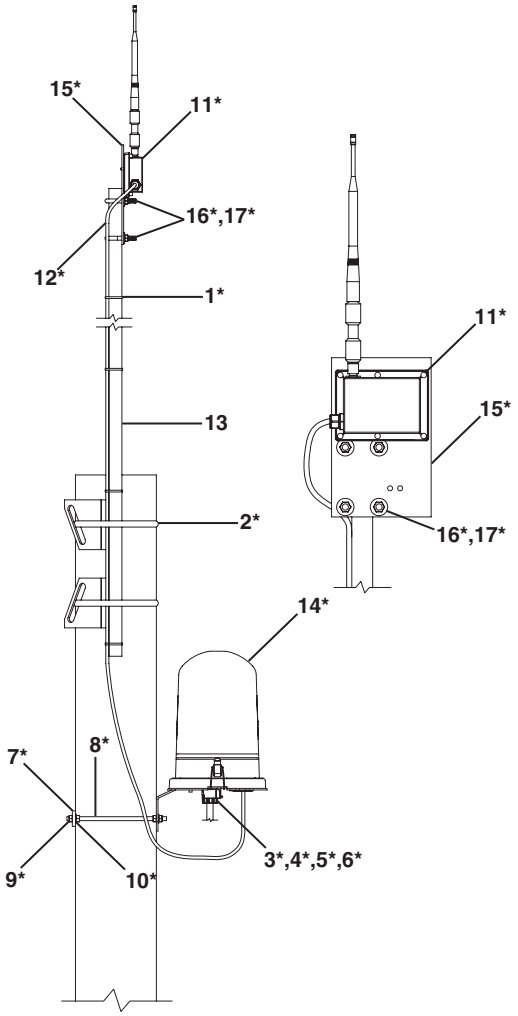




ITEM	DESCRIPTION	PART#
1	1/4" Hex Nut	0131020
2	1/4" Lock Nut	0133008
3	#6 Hex Nut	0134027
4	#6 Flat Washer	0142074
5	1/4" x 3/4" Cap Screw	0161057
6	#8 x 7/8" Screw - Phillips Head Self-Tapping	0161356
7	#8 x 1-1/4 ST Cap Screw - Phillips Head Self-Tap	0161357
8	#6 x 3/4" Screw - Phillips Head	0164230
9	1/4" x 20mm 2A Flat Screw - Allen Socket	0164234
10	12 Caplug - 3/4" NPT	0261008
11	#14 Caplug - Red	0261012
12	5/8"-24 Thread Caplug	0261057
13	Ground Lug - 7 Terminal	0315120
14	Terminal Strip - 3 Terminal	0315121
15	RTK Radio - 400 MHz (OBSOLETE Sep 17)	03E3239
	- 900 MHz (OBSOLETE Sep 17)	03E3238
16	NC3050 Receiver Mount. Bracket (OBS. Sep 17)	03E3524

ITEM	DESCRIPTION	PART#
17	NC3050 Receiver - Programmed (OBS. Sep 17)	03E3526
18	Tower Box Gasket Kit	0992071
19	Decal - Ground	0992925
20	N-Female Bulkhead	0997247
21	Decal - Caution Disconnect Off and Locked	0998331
22	Decal - Trimble Power	0998337
23	Tower Box Mounting Plate	1702054
24	Electrical Tower Box Cover - UL	9311146
25	Radio Box Bottom Plate	9311884
26	Tower Box Vertical Plate	9311889
27	Radio Mounting Bracket (OBSOLETE Sep 17)	9312056
28	Decal - Terminal Block Torque Copper Wire	0998450
	NavCom3050 Tower Box Assm. - 400 MHz	1815121
	- 900 MHz	1815120
	(above assemblies OBSOLETE Sep 17)	

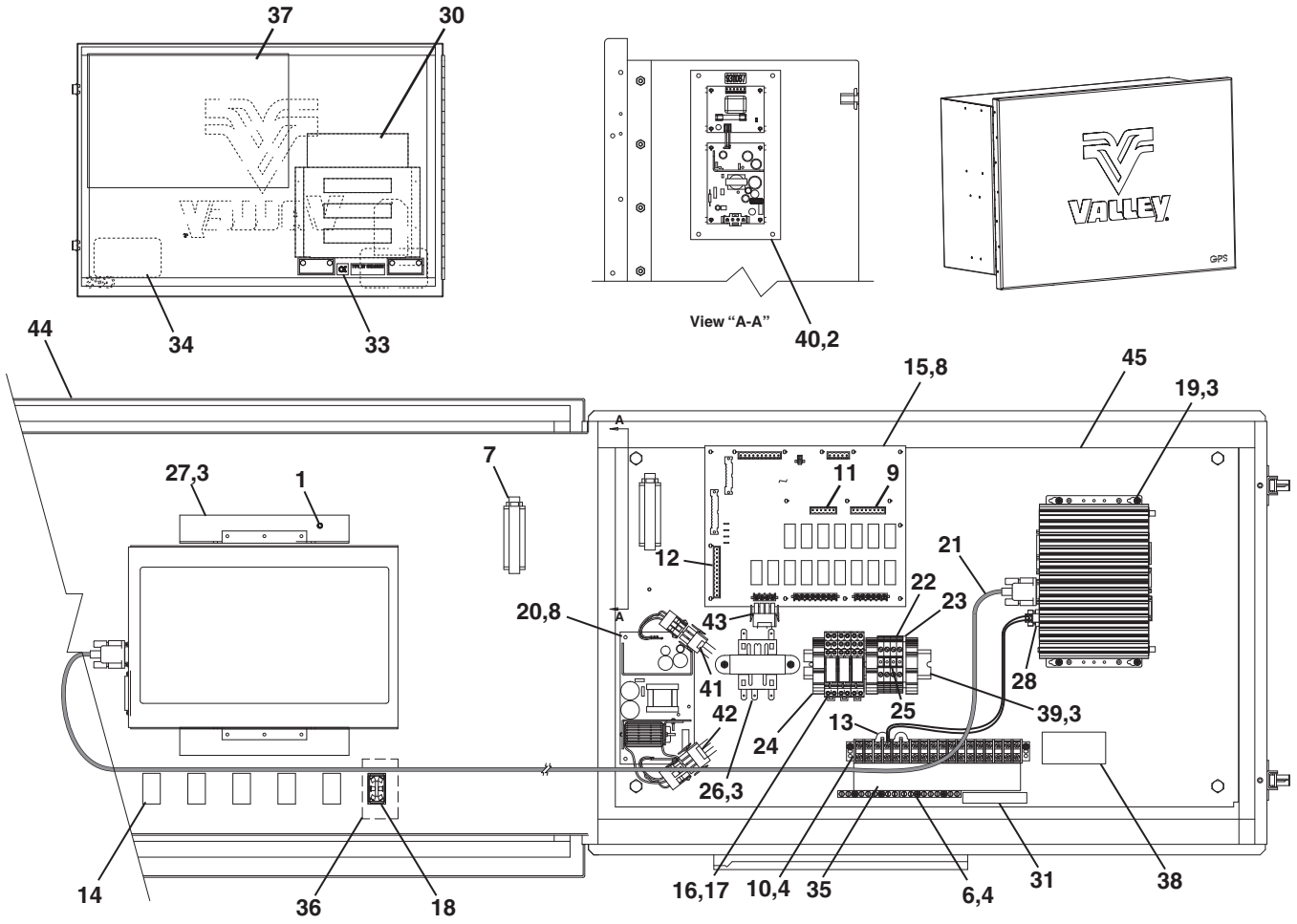
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ITEM	DESCRIPTION	PART#
1	Wire Tie - Black	03E2004
2	Clamp - 42"	0271051
3	Strain Relief Hub - .50"	0314119
4	Scotchlok Connector	0314151
5	3/4" Lock Nut - Romax	0315132
6	Shielded Cable - 7 Cond. 14 Ga. - 10' Long	9311999
7	Reference Station Mounting Bracket	9363561
8	5/16" Threaded Adjustment Rod	1731232
9	5/16" Hex Nut	0131037
10	1/4" Flat Washer - Wide	0142022
11	900 MHz Repeater Radio w/Antenna (OBS. Sep 17)	03E2870
12	Radio Cable (OBSOLETE Sep 17)	03E2859
13	Running Light Bracket Assm.	1781544
14	Power Box Assm. - 480/120 VAC in to 12VDC out	1814762
15	Mounting Plate	9311129
16	5/16" U-Bolt w/Hex Nuts (2 ea.)	0176064
17	5/16" Flat Washer - Wide	0142017

*** Repeater Mounting Hardware Kit (OBSOLETE Sep 17) KA01404**

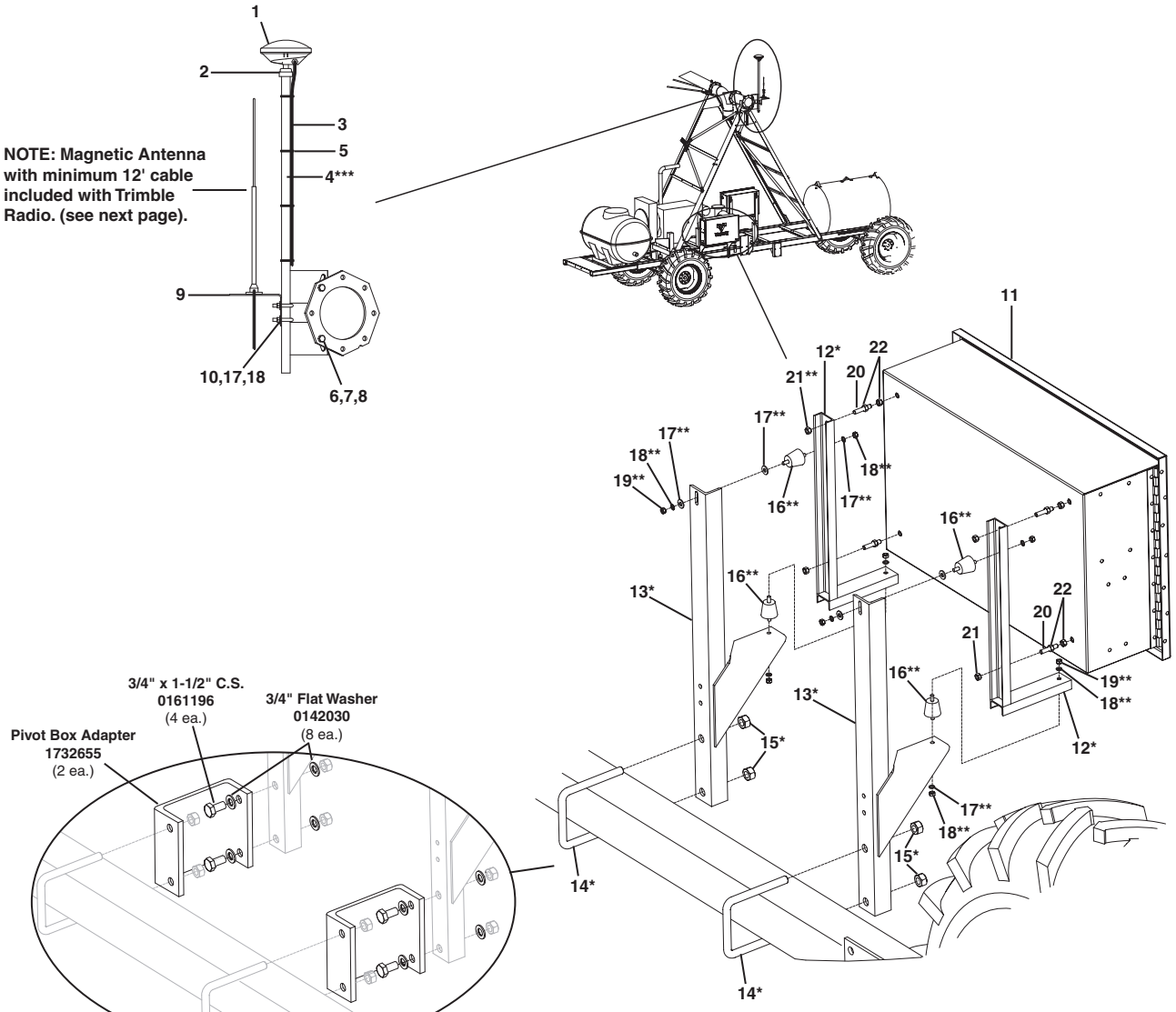
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ITEM	DESCRIPTION	PART #
1	1/4" Lock Nut	0133008
2	#8 Hex Nut	0134023
3	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
4	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
5	Tyton Ty Wrap - Black (not shown)	0314225
6	Ground Lug	0315120
7	Ribbon Cable Clamp	0315840
8	Snap-in Spacer	03E0412
9	Terminal Strip - 8 Pole	03E0496
10	Terminal Strip - 18 Pole	03E1561
11	Terminal Strip - 6 Pole	03E1611
12	Terminal Strip Plug - 12 Pole	03E1612
13	Jumper	03E1644
14	Dummy Rocker Switch Mount	03E1719
15	Select/Pro Relay Board plus I/O	03E2211
16	Relay - 120 VAC 5A DPDT	03E2230
17	Relay Socket	03E2231
18	Rocker Switch	03E2757
19	GPS Guidance Computer	03E4333
	GPS Guidance Computer - DISCONTINUED Dec 17	03E2802
	Compact Flash Memory Card - Programmed	9313004
20	Power Supply - 12 V	03E2809
21	Null Modem Cable DB9 Male - DB9 Fem. - 6' Long.	03E2814
22	Dinrail Terminal Block	03E2994
23	Terminal Block End Cover	03E2995

ITEM	DESCRIPTION	PART #
24	End Bracket	03E2996
25	Terminal Block Jumper - 4 Pole	03E2999
26	Transformer - 75 VA 120 VAC Class 2	03E3098
27	GPS Guidance GGA Plus Module	03E3516
28	Terminal Strip Plug - 2 Pole	03E4138
29	Cabinet Lock (not shown)	0991370
30	Accident Prevention Tag	0992009
31	Decal - Ground	0992925
32	Wire Tie Holder - Nylon (not shown)	0994494
33	Decal - "CE" European Communities	0994639
34	Decal - Warning - Water Entry Prevention	0996074
35	Decal - Terminal Strip - 18 Pole	0997857
36	Decal - Guidance Override	0998149
37	Decal - Schematic - GPS Guidance Control Panel	0998153
38	Decal - Terminal Block Torque	0998450
39	Din Rail - 6" Long	9310608
40	Pro2 Backlight Dual Power Supply	9311087
41	Power Harness Assm. - 3 Pin 3 Wire	9311720
42	Power Harness Assm. - 4 Pin 4 Wire	9311721
43	GPS Power Harness Assm. - 4 Pin 3 Wire	9311722
44	GPS Box and Doors Assm	9311739
45	GPS Guidance Backpanel	9312019
	COMPLETE SFGPS Guidance Control Panel	9311740

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Pivot Box Adapter (OPTIONAL)

ITEM	DESCRIPTION	PART #
1	Trimble Antenna	03E3113
2	GPS Antenna Mount Assm.	9363922
3	Coaxial Cable - 28'	03E3114
4	Short Antenna Mount - Threaded	9363972
5	Wire Tie - Black	03E2004
6	1/2" x 2-1/2" Cap Screw	0161023
7	1/2" Flat Washer	0142025
8	1/2" Lock Nut	0133005
9	Magnetic Mount Bracket	9311890
10	5/16" x 1-3/8" U-Bolt	0176064
11	SFGPS Guidance Control Panel	9311740
12	Pivot Box Mount Assm.	1781675
13	Pivot Box Support Post Assm.	1730132
14	3/4" x 7" U-Bolt	0176048
15	3/4" Hex Nut	0131008

ITEM	DESCRIPTION	PART #
16	Rubber Mount	0992239
17	5/16" Flat Washer	0142017
18	5/16" Lock Washer	0141008
19	5/16" Hex Nut	0131019
20	3/8" x 2" Threaded Rod - Stainless Steel	0994523
21	3/8" Lock Nut	0131018
22	3/8" Hex Nut	0133006

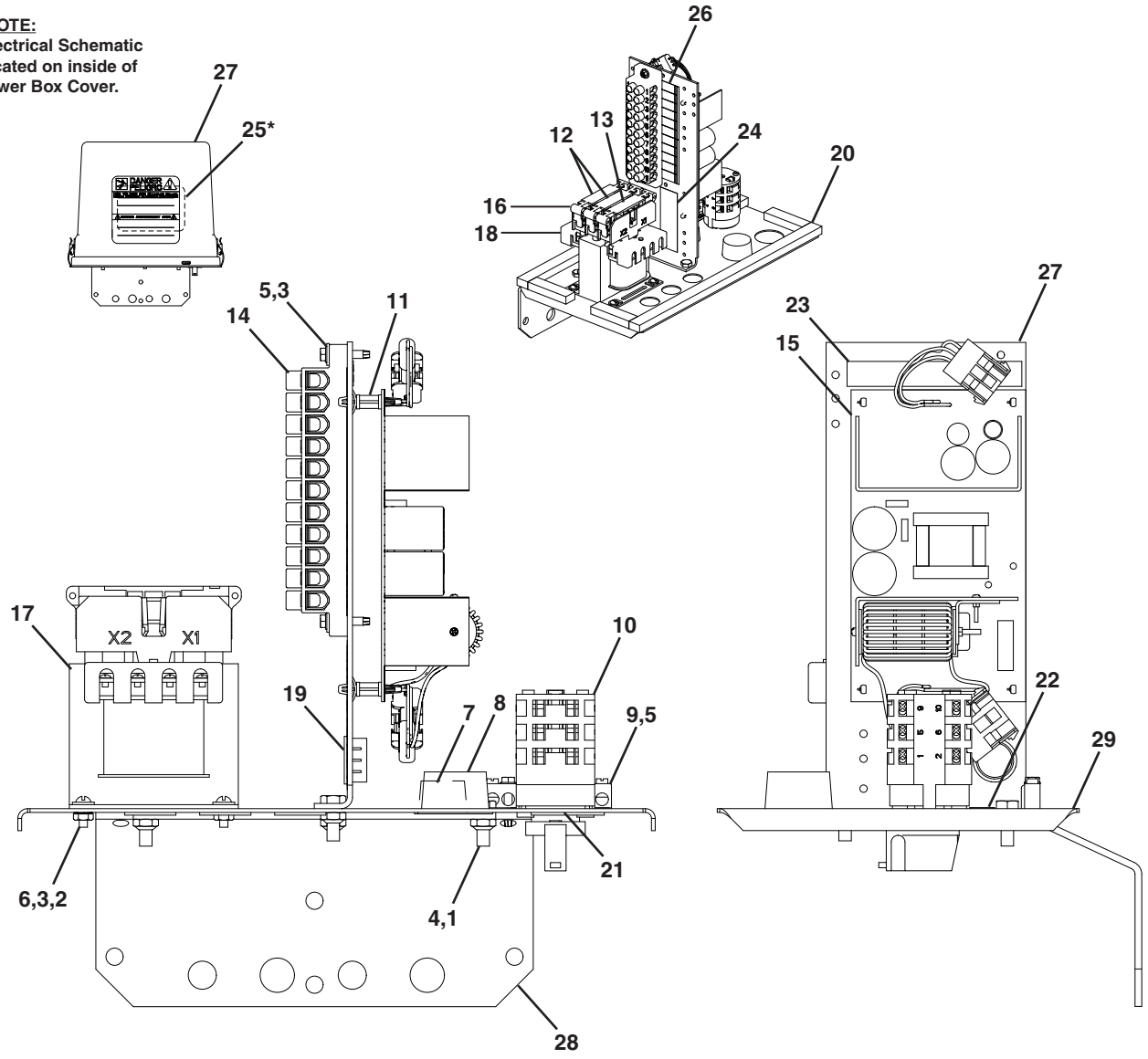
*Rainger GPS Guidance Panel Mount. Hdwre. Kit. KA01406
(includes Male to Female Connector - 03E2444,
Female to Female Modem Connector - 03E2810 &
Harness w/Remote Conduit - 9311676 (not shown))
(includes OPTIONAL Pivot Box Adapter & Hdwre shown above)

**Ditch Feed Control Panel Mount Hardware Kit KA09129

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Power Box - 480/120 VAC In to 12VDC Out

***NOTE:**
Electrical Schematic located on inside of Tower Box Cover.

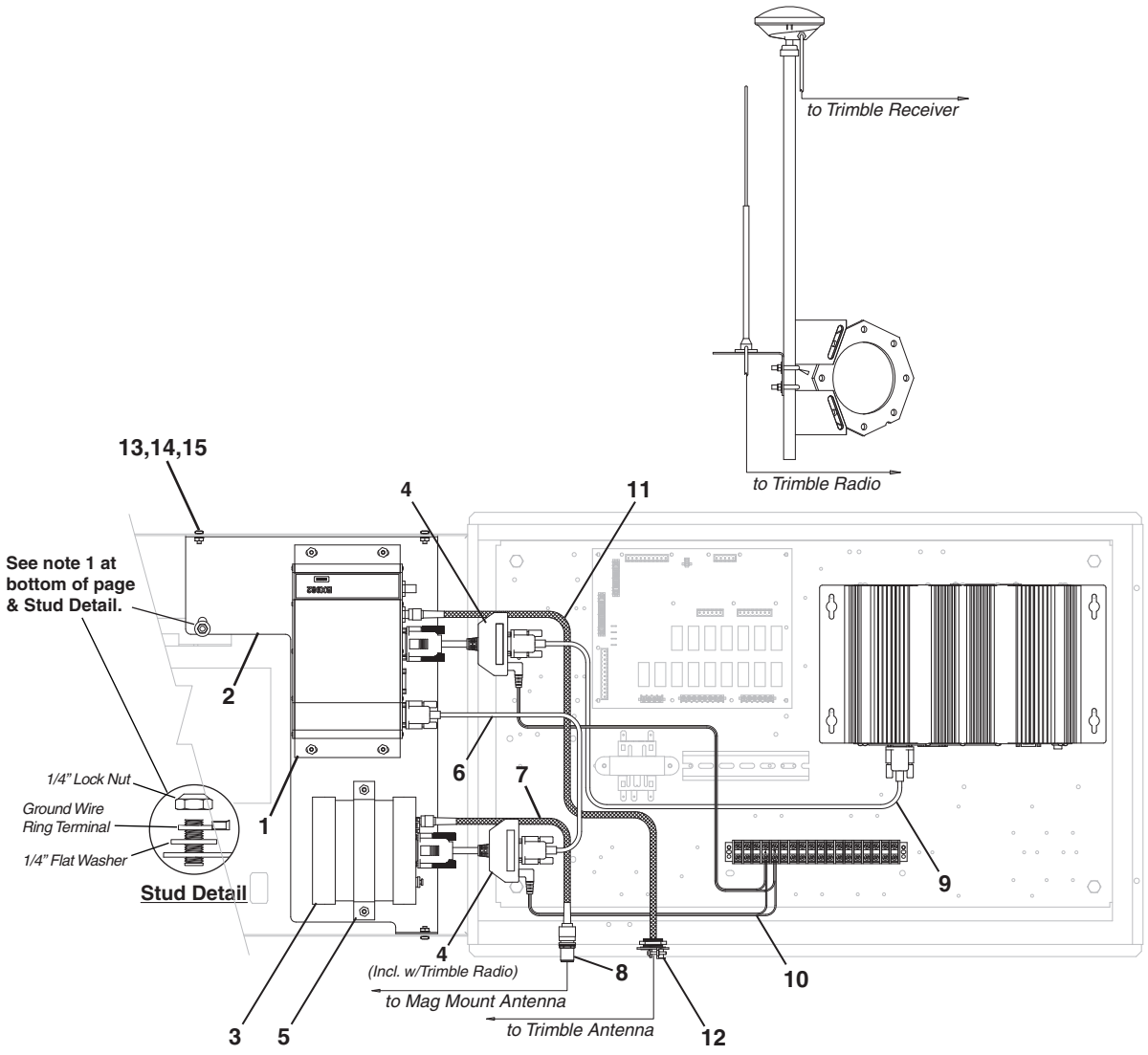


ITEM	DESCRIPTION	PART #
1	1/4" Lock Nut	0133008
2	#8 Hex Nut w/External Tooth Lock Washer	0134059
3	#8 Flat Washer - Stainless Steel	0142084
4	1/4" x 3/4" Cap Screw	0161057
5	#8 x 7/8" Screw - Self-Tapping	0161356
6	#8 x 1/2" Screw - RH	0164042
7	Caplug 12	0261008
8	Caplug 15x	0261010
9	Ground Lug	0315120
10	Disconnect Switch - 6 Pole	0315746
11	Circuit Board Spacer - Snap-in	03E0412
12	Fuse - 5 Amp 600V	03E1678
13	Fuse - 2.5 Amp 600V	03E1733
14	Terminal Block - 11 Term 600V	03E1899
15	Power Supply - 12V	03E2809
16	Fuse Puller/Cover	03E2875

ITEM	DESCRIPTION	PART #
17	Transformer - 240 x 480 Primary 120 Secondary	03E2876
18	Transformer Finger Safe Covers	03E2877
19	Snap Bushing	0992070
20	Gasket Kit	0992071
21	Decal - Disconnect	0992090
22	Decal - Ground	0992925
23	Decal - Copper Wire ONLY	0994836
24	Decal - 3R Enclosure Decal	0996403
25	Decal - Electrical Schematic	0997858
26	Decal - Terminal Strip	0997954
27	Vertical Component Bracket	1702053
28	Mounting Plate	1702054
29	Bottom Plate	1704173
30	Tower Box Cover - UL	9311146
	Power Box Assm. - 480/120 VAC in to 12VDC out	1814762

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900 MHz Trimble GPS Guidance In-Panel



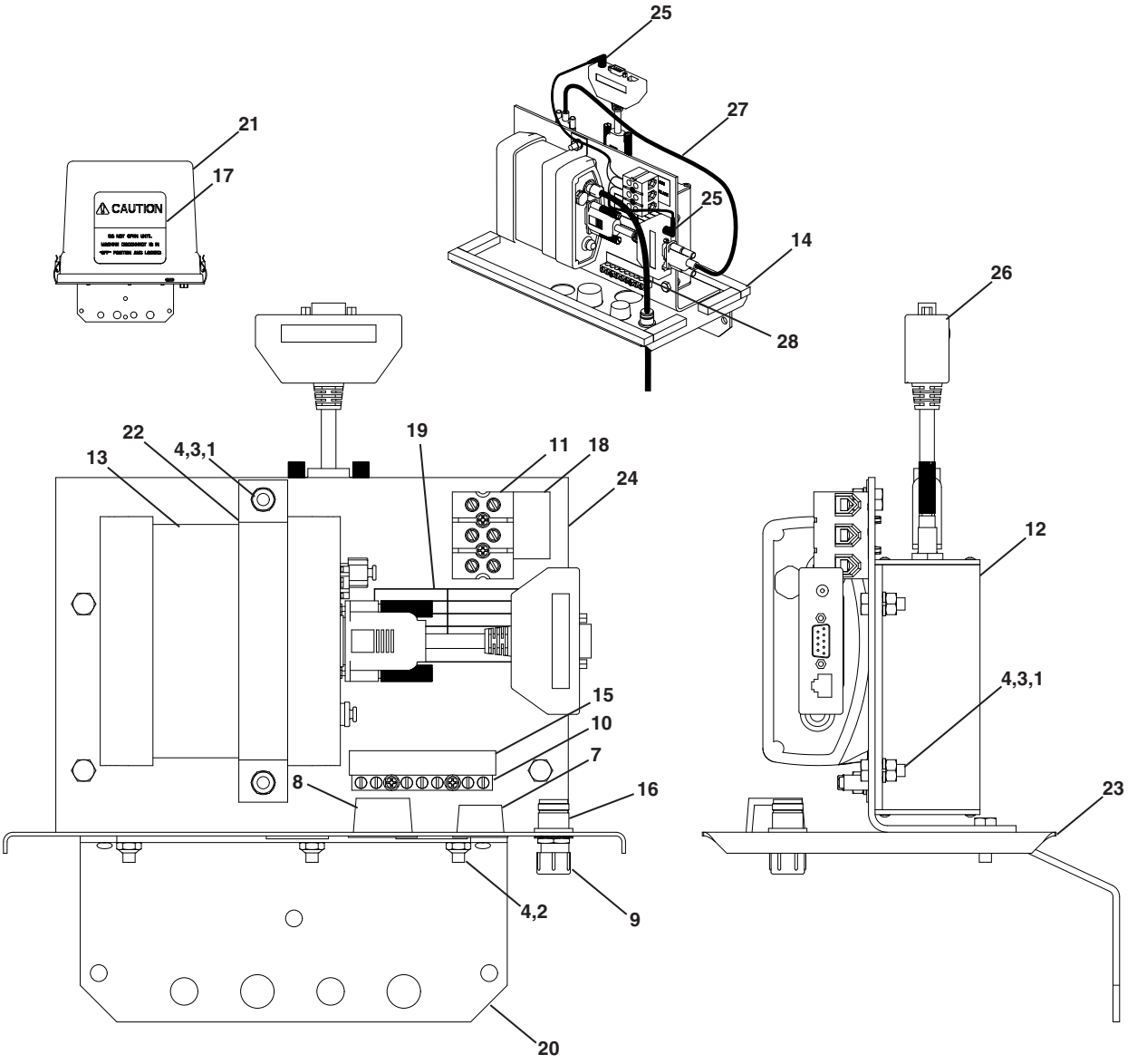
ITEM	DESCRIPTION	PART #
1	Trimble Receiver	03E3111
2	Trimble Mounting Plate	9311874
3	Trimble Radio - 900 MHz	03E3112
4	Trimble Power Cable	03E3115
5	Trimble Radio Bracket	9311873 *
6	Null Modem Cable - 1' DB9 Fem to Fem	03E3127 *
7	Antenna Jumper - N Male to TNC Male	03E3128 *
8	N Female Bulkhead	0997247 *
9	Null Modem Cable - 4' DB9 Fem to Fem	03E3137 *
10	Power Plug	03E2542 *
11	Coaxial Cable - 28' TNC Male to 90° TNC Male	03E3114
12	3/4" Cable Connector	03E3163 *
13	#8 Hex Nut w/External Tooth Lock Washer	0134059 *
14	#8 Flat Washer - Stainless Steel	0142084 *
15	#8 x 3/8" Cap Screw	0164110 *

*** Trimble 900 MHz In-Panel Mounting Hardware - Linear KA01463**

[1] NOTE: If Grounding Stud is present remove Nut before mounting and replace w/ new 1/4" Lock Nut - 0133008 & 1/4" Flat Washer - 0142022.

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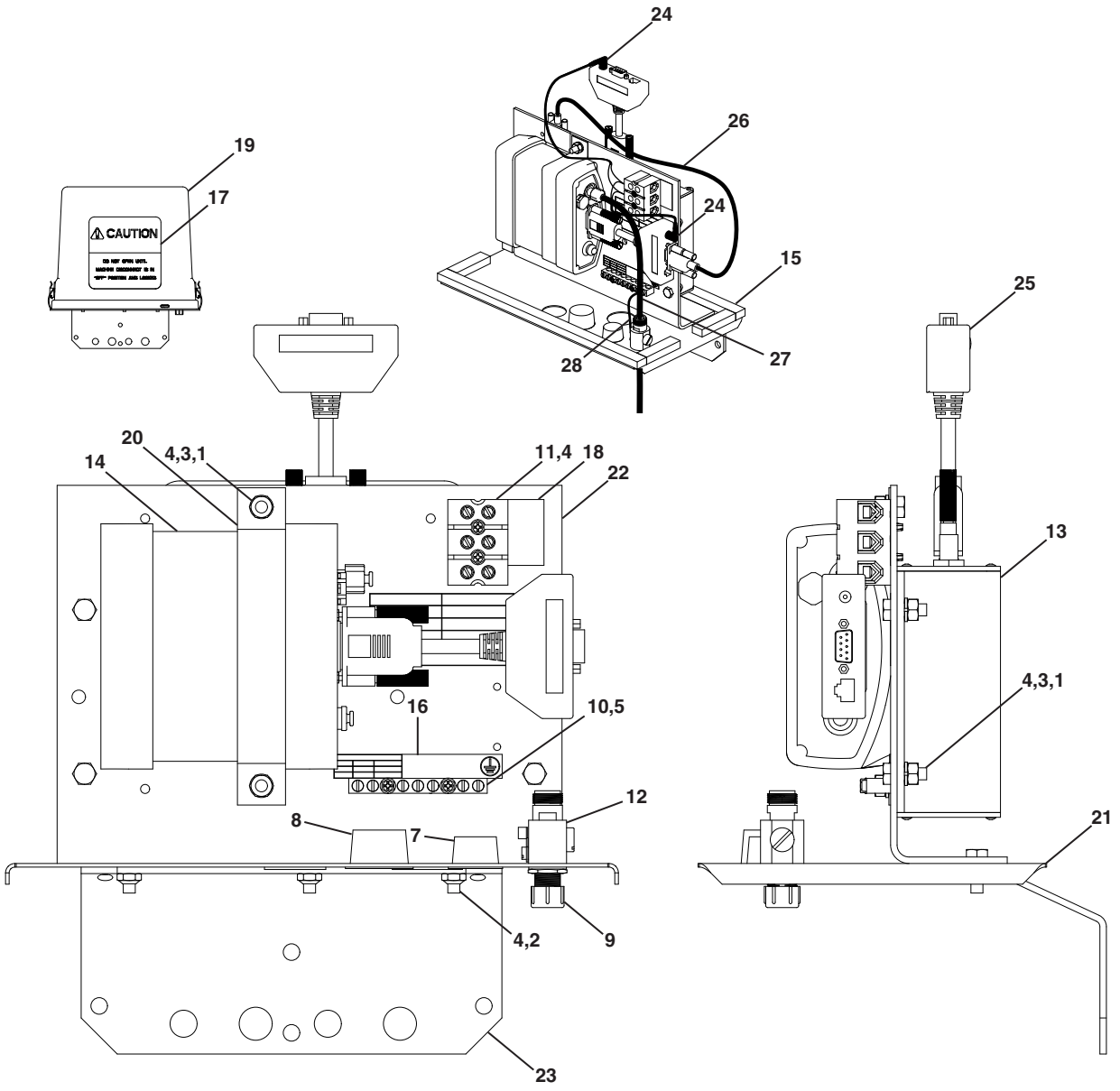
Centerfeed GPS 900 MHz Trimble Tower Box



ITEM	DESCRIPTION	PART #
1	1/4" Hex Nut	0131020
2	1/4" Lock Nut	0133008
3	1/4" Lock Washer	0141009
4	1/4" x 3/4" Cap Screw	0161057
5	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
6	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
7	Caplug 12	0261008
8	Caplug 14 - Red	0261012
9	Caplug - CD-67 Threaded	0261057
10	Ground Lug	0315120
11	Terminal Strip - 3 Term.	0315121
12	Trimble Receiver - Programmed	03E3111
13	Trimble Radio - 900MHz - Battery Removed	03E3112
14	Gasket Kit	0992071
15	Decal - Ground	0992925

ITEM	DESCRIPTION	PART #
16	N-Female Bulkhead	0997247
17	Decal - Caution Disconnect Off and Locked	0998331
18	Decal - Trimble Power	0998337
19	Decal - Terminal Block Torque Copper Wire	0998450
20	Tower Box Mounting Plate	1702054
21	Tower Box Cover - UL	9311146
22	900MHz Trimble Radio Bracket	9311873
23	Bottom Plate	9311884
24	Vertical Plate	9311889
25	Power Plug	03E2542
26	Trimble Power Cable	03E3115
27	DB9 Fem to DB9 Fem Modem Cable - 1'	03E3127
28	N Male to RP-TNC Male Antenna Jumper - 12"	03E3128
	900MHz Trimble Tower Box Assm.	1814983

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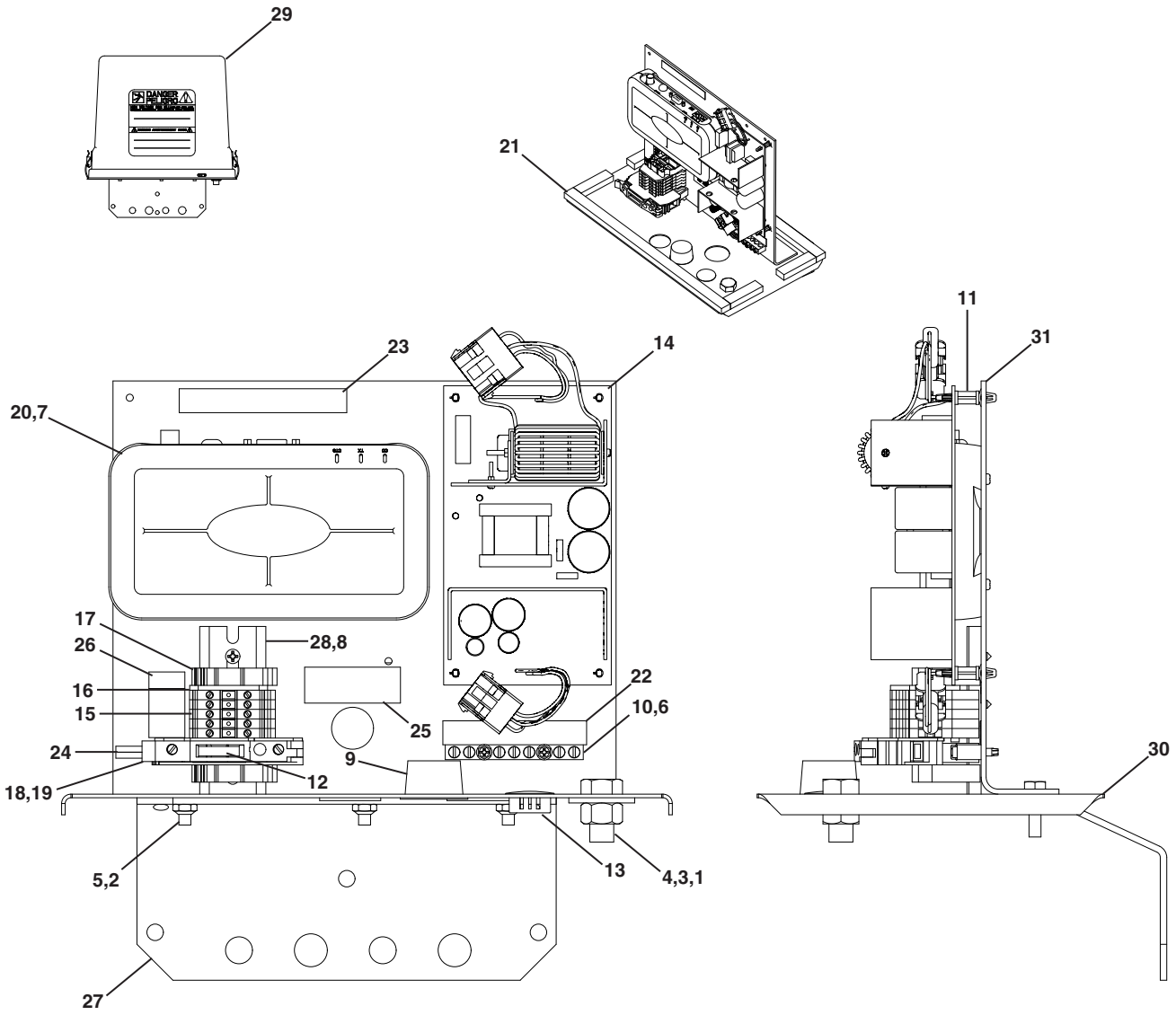


ITEM	DESCRIPTION	PART #
1	1/4" Hex Nut	0131020
2	1/4" Lock Nut	0133008
3	1/4" Lock Washer	0141009
4	1/4" x 3/4" Cap Screw	0161057
5	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
6	#8 x 1-1/4" Self Tapping Screw - Phillips Head	0161357
7	Caplug 12	0261008
8	Caplug 14 - Red	0261012
9	Caplug - CD-67 Threaded	0261057
10	Ground Lug	0315120
11	Terminal Strip - 3 Term	0315121
12	Coaxial Surge Protector - 230V	03E3194
13	Trimble Receiver - Programmed	03E3111
14	Trimble Radio - 900MHz - Battery Removed	03E3112
15	Gasket Kit	0992071

ITEM	DESCRIPTION	PART #
16	Decal - Ground	0992925
17	Decal - Caution Disconnect Off and Locked	0998831
18	Decal - Trimble Power	0998337
19	Tower Box Cover - UL	9311146
20	900MHz Trimble Radio Bracket	9311873
21	Bottom Plate	9311884
22	Vertical Plate	9311889
23	Tower Box Mounting Plate	1702054
24	Power Plug	03E2542
25	Trimble Power Cable	03E3115
26	DB9 Fem to DB9 Fem Modem Cable - 1'	03E3127
27	N Male to RP-TNC Male Antenna Jumper - 12"	03E3128
28	Ground Wire - 14Ga. - 6.50"	1810162
	900MHz Trimble Reference Station Assm.	1814998

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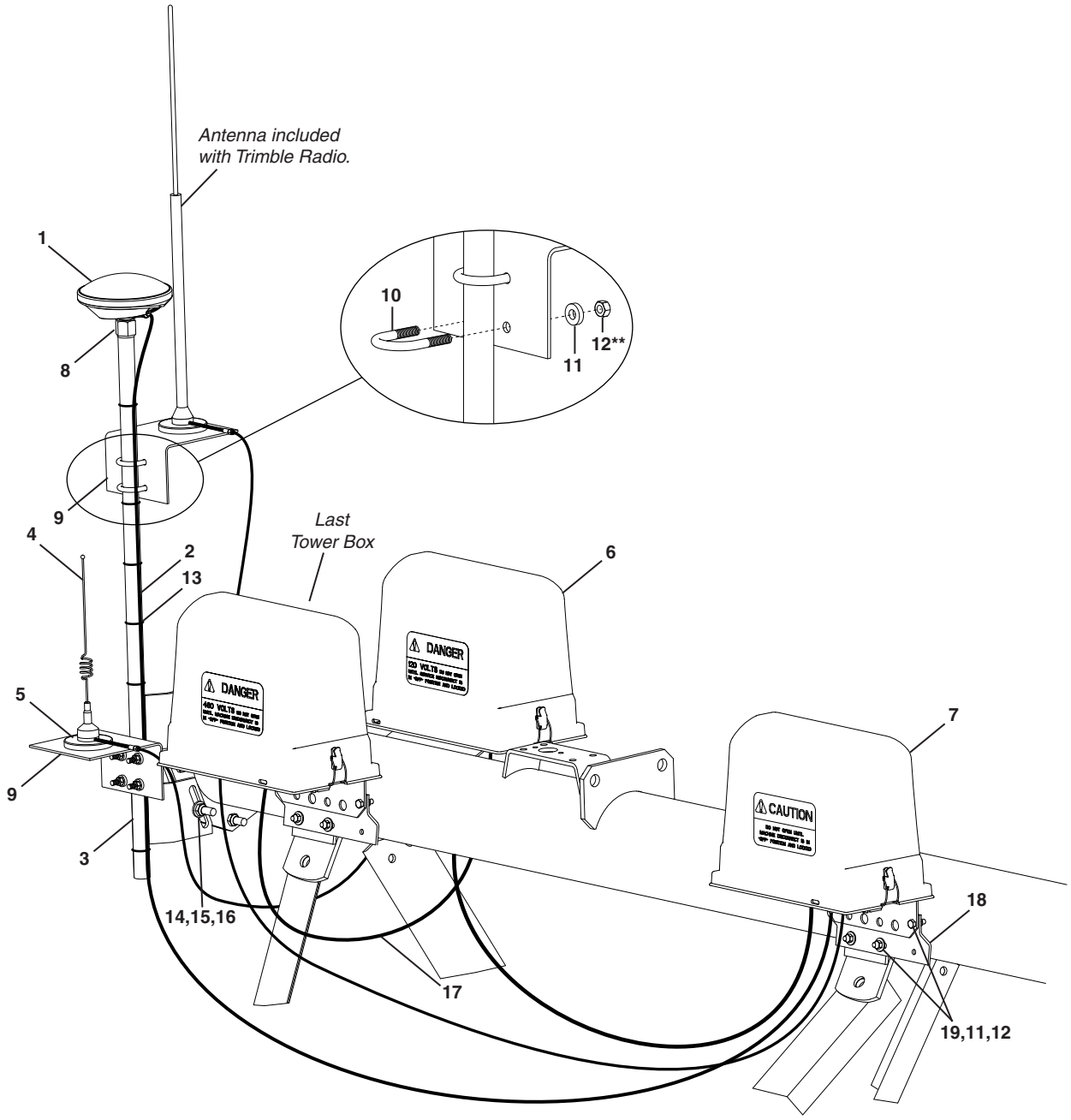
902-928MHz Freewave SSR RS232 Radio Box



ITEM	DESCRIPTION	PART #
1	1/2" Hex Nut	0131015
2	1/4" Lock Nut	0133008
3	1/2" Flat Washer	0142026
4	1/2" x 1" Cap Screw	0161028
5	1/4" x 3/4" Cap Screw	0161057
6	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
7	#6 x 1/4" Machine Screw - Pan Head Phillips	0164188
8	#8 x 1/4" Self-Tapping Screw - Phillips Head	0164226
9	Caplug 14 - Red	0261012
10	Ground Lug	0315120
11	Circuit Board Spacer - Snap-In	03E0412
12	Fuse - 2.5A	03E2092
13	Snap Button Hole Plug	03E2166
14	Power Supply - 12V	03E2809
15	Terminal Block - Din Rail Mount	03E2994
16	Terminal Stop End Cover	03E2995
17	Din Rail End Stop	03E2996

ITEM	DESCRIPTION	PART #
18	Fuse Block - Din Rail Mount	03E2997
19	Fuse Block Cover	03E2998
20	Freewave SSR 902-928MHz - RS232 TNC-F	03E3061
21	Gasket Kit	0992071
22	Decal - Ground	0992925
23	Decal - Copper Wire ONLY	0994836
24	Decal - Torque	0997601
25	Decal - 2.5A AGC Fuse	0998308
26	Decal - Centerfeed Freewave Radio Box Term.	0998323
27	Tower Box Mounting Plate	1702054
28	Din Rail Adapter Mount Channel	9311122
29	Tower Box Cover - UL	9311146
30	Bottom Plate	9311884
31	Vertical Plate	9311885
	Freewave SSR RS232 Radio Box Assm.	1814982

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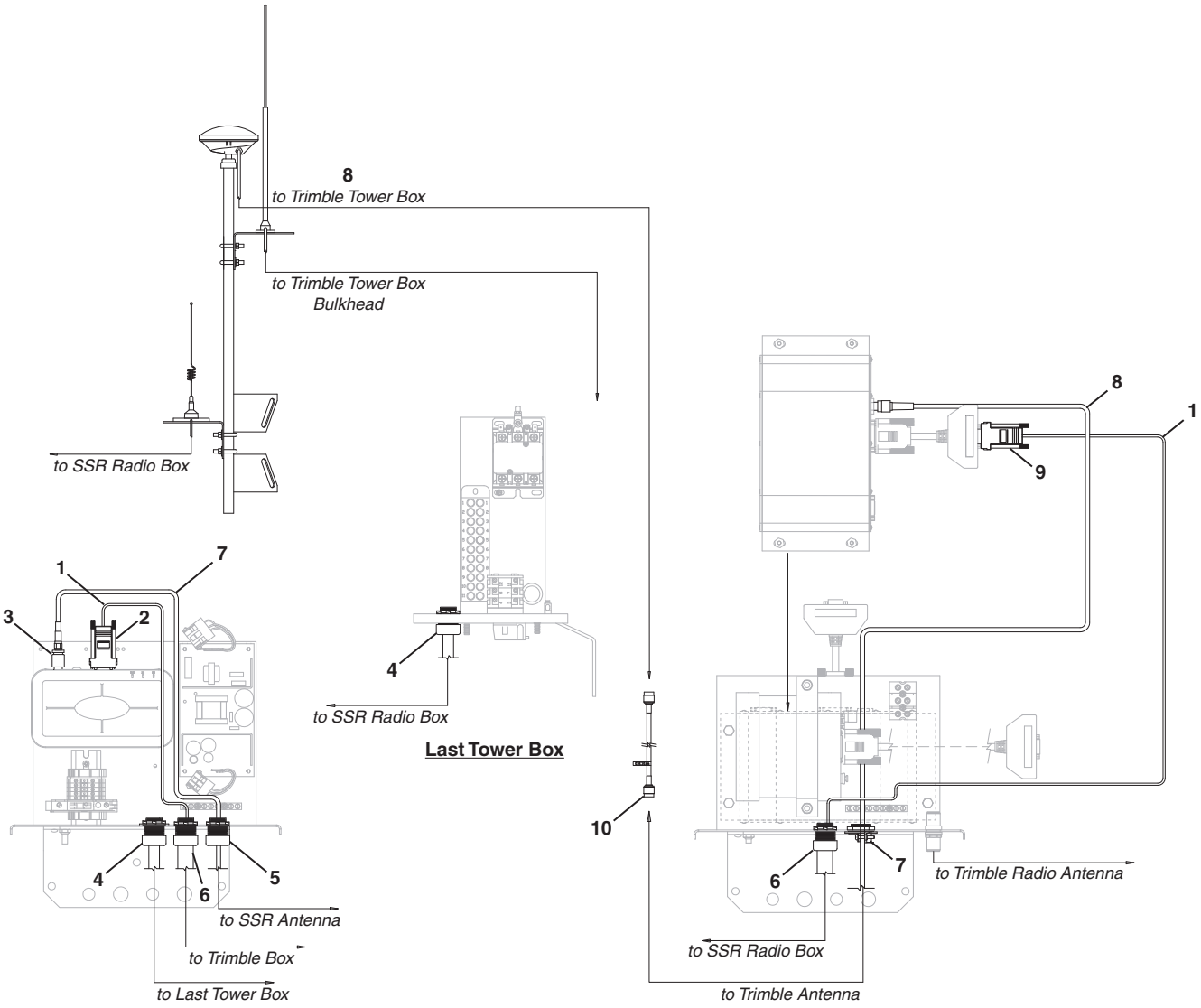


ITEM	DESCRIPTION	PART #
1	Trimble Antenna	03E3113
2	Coxial Cable - SP-TNC Male to SP-TNC Male	03E3114
3	Short Antenna Mount Assm.	9363972
4	SSR Omni Antenna - w/o Mount	03E3062
5	Magnetic Antenna Mount	03E3080
6	Freewave SSR RS232 Radio Box Assm.	1814982
7	900MHz Trimble Tower Box Assm.	1814983
* 8	GPS Antenna Mount Assm.	9363922
* 9	Magnetic Mount Bracket	9311890
*10	5/16" U-Bolt	0176064
*11	5/16" Flat Washer - Stainless Steel	0142095

ITEM	DESCRIPTION	PART #
*12	5/16" Hex Nut	0131019
*13	Wire Tie - Black	03E2004
*14	1/2" x 2-1/2" Cap Screw	0161023
*15	1/2" Flat Washer	0142025
*16	1/2" Lock Nut	0133005
*17	Electrical Cable - 3 Cond - 10' Long	1813424
*18	Control Box Mounting Plate	1700494
*19	5/16" x 1" Cap Screw	0161052

** NOTE: Hex Nuts provided with U-Bolt (0176064).

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ITEM	DESCRIPTION	PART #
1	Ethernet Cable - 12'	03E3173
* 2	Adapter - DB9 Male to RJ45	03E2444
* 3	Adapter - TNC Male to SMA	03E3136
* 4	Strain Relief	0315502
* 5	Strain Relief	03E2132
**6	Power Conduit Assm. - 3/4" Non-Metallic	1814999
* 7	Cable Connector	03E3163
8	Coaxial Cable - SP-TNC Male to SP-TNC Male	03E3114
* 9	Adapter - DB9 Female to RJ45	03E2810
10	Coaxial Cable - N Male to N Female - 15' (if needed)	03E3126

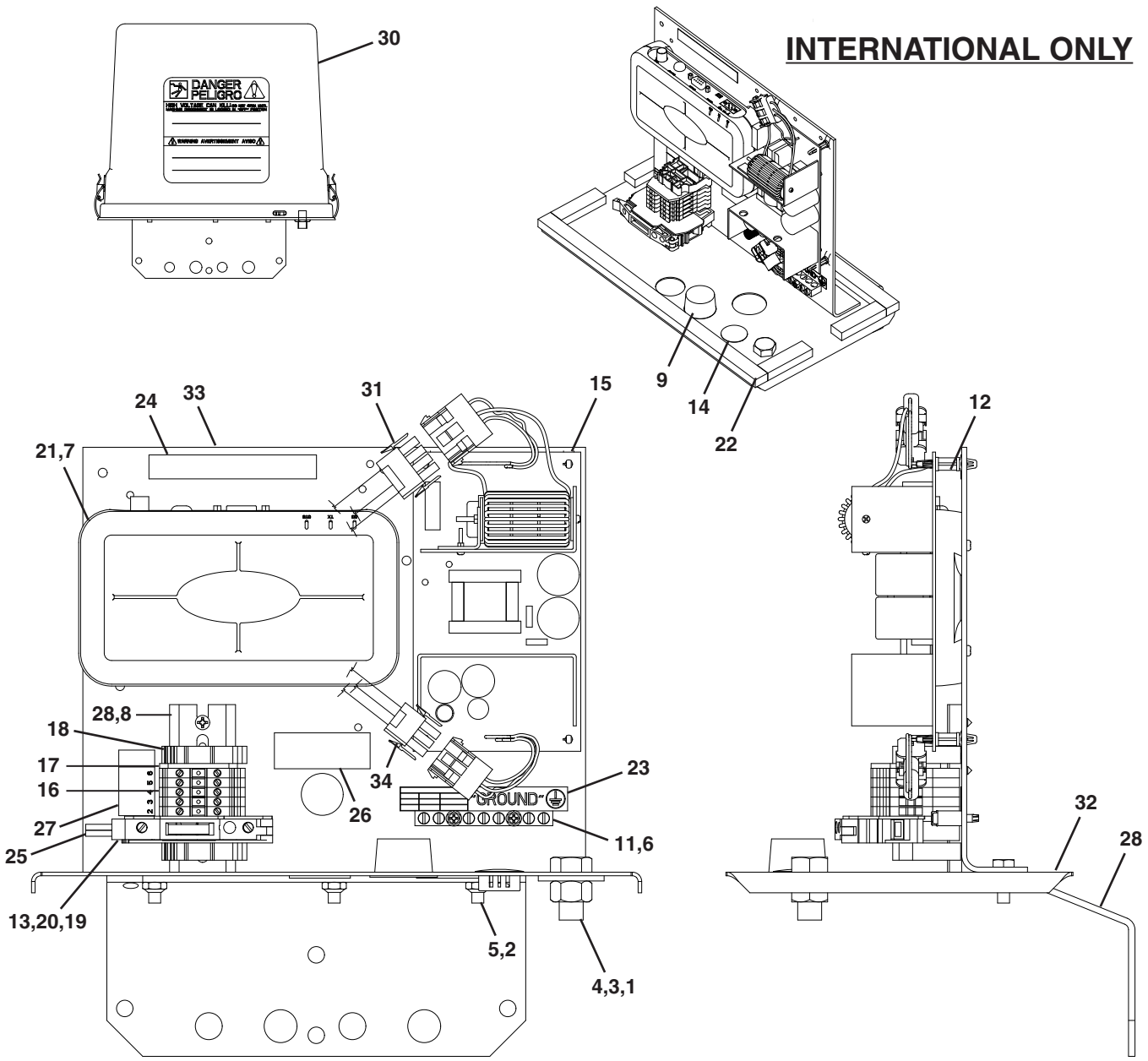
* Centerfeed Trimble GPS Hardware Kit KA01468
(see previous page for additonal kit parts)

**NOTE: Power Conduit Assm. incl. Ethernet Cable (03E3173).

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2.4 GHz Freewave SSR - RS232 Radio Box

INTERNATIONAL ONLY



ITEM	DESCRIPTION	PART #
1	1/2" Hex Nut	0131015
2	1/4" Lock Nut - Grade B	0133008
3	1/2" Flat Washer - Wide	0142026
4	1/2" x 1" Cap Screw	0161028
5	1/4" x 3/4" Cap Screw - Grade 5	0161057
6	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
7	#6 x 1/4" Pan Head Screw - Phillips Head	0164188
8	#8-32 x 1/4" Self-Tapping Screw - Phillips Head	0164226
9	14 Caplug - Red	0261012
10	Tyton Ty Wrap - T50R Black (not shown)	0314225
11	Ground Lug - 7 Term.	0315120
12	Circuit Board Spacer - Snap-In	03E0412
13	Fuse - 2.5 Amp	03E2092
14	Snap Button Hole Plug - .875 Dia. Hole	03E2166
15	Power Supply - 12V	03E2809
16	Terminal Block - Din Rail Mount	03E2994
17	Terminal Stop End Cover	03E2995
18	Din Rail End Stop	03E2996

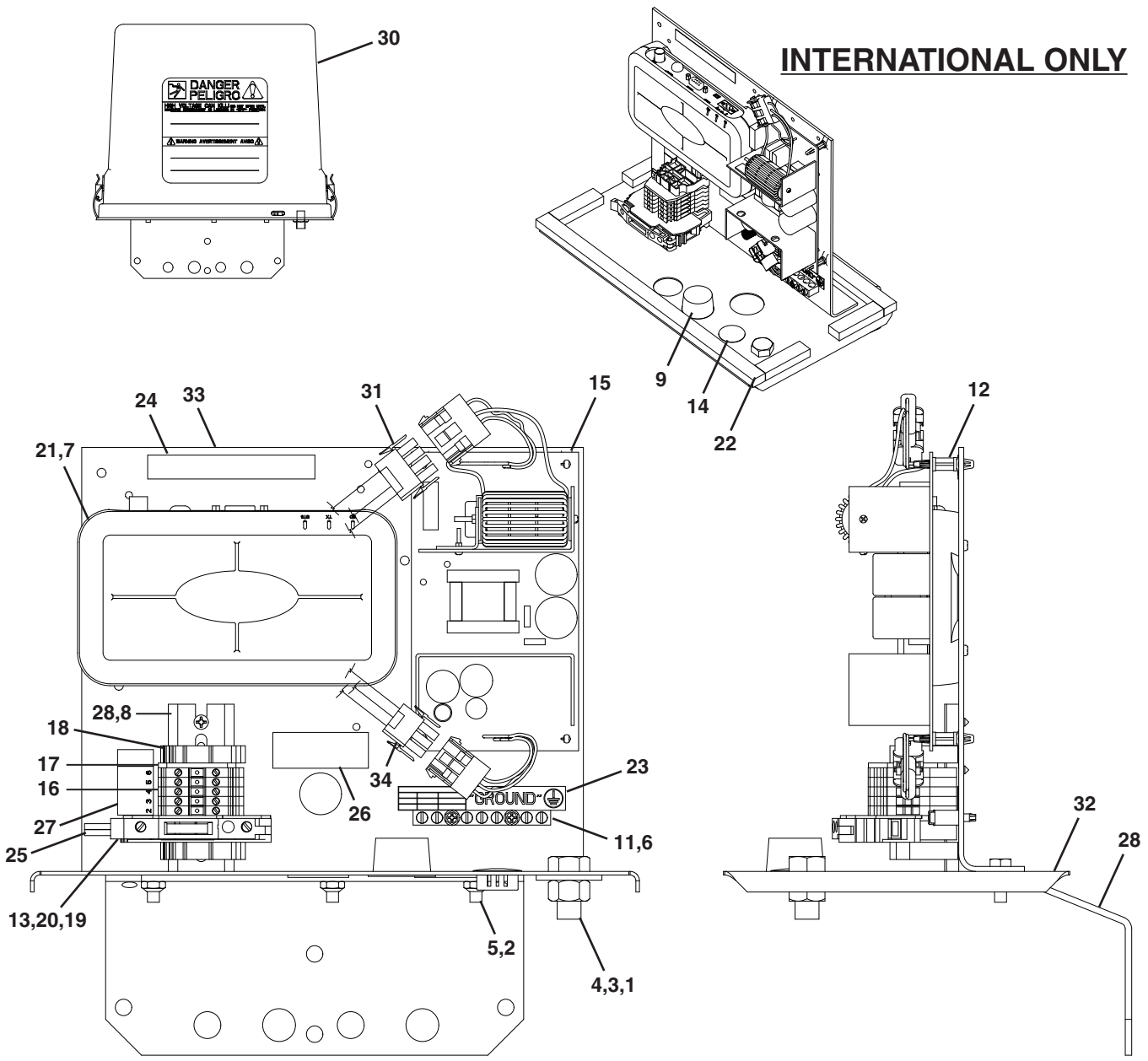
ITEM	DESCRIPTION	PART #
19	Fuse Block - Din Rail Mount	03E2997
20	Fuse Block Cover	03E2998
21	Freewave 2.4GHz RS232 TNC-F	03E3915
22	Gasket Kit	0992071
23	Decal - Ground	0992925
24	Decal - Copper Wire Only	0994836
25	Decal - Torque	0997601
26	Decal - 2.5 Amp AGC Fuse	0998308
27	Decal - Centerfeed Freewave Radio Box Term.	0998323
28	Mounting Plate	1702054
29	Din Rail Mount Channel - 3.5" Long	9311122
30	Electrical Tower Box Cover - UL	9311146
31	GPS Power Harness Assm. - 4 Pin 3 Wire	9311722
32	Bottom Plate	9311884
33	Vertical Plate	9311885
34	Radio Box Power Harness Assm. - 3 Pin 3 Wire	9312344

Freewave SSR 2.4GHz RS232 Radio Box Assm. 1815448

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916-928MHz Freewave SSR - RS232 Radio Box

INTERNATIONAL ONLY



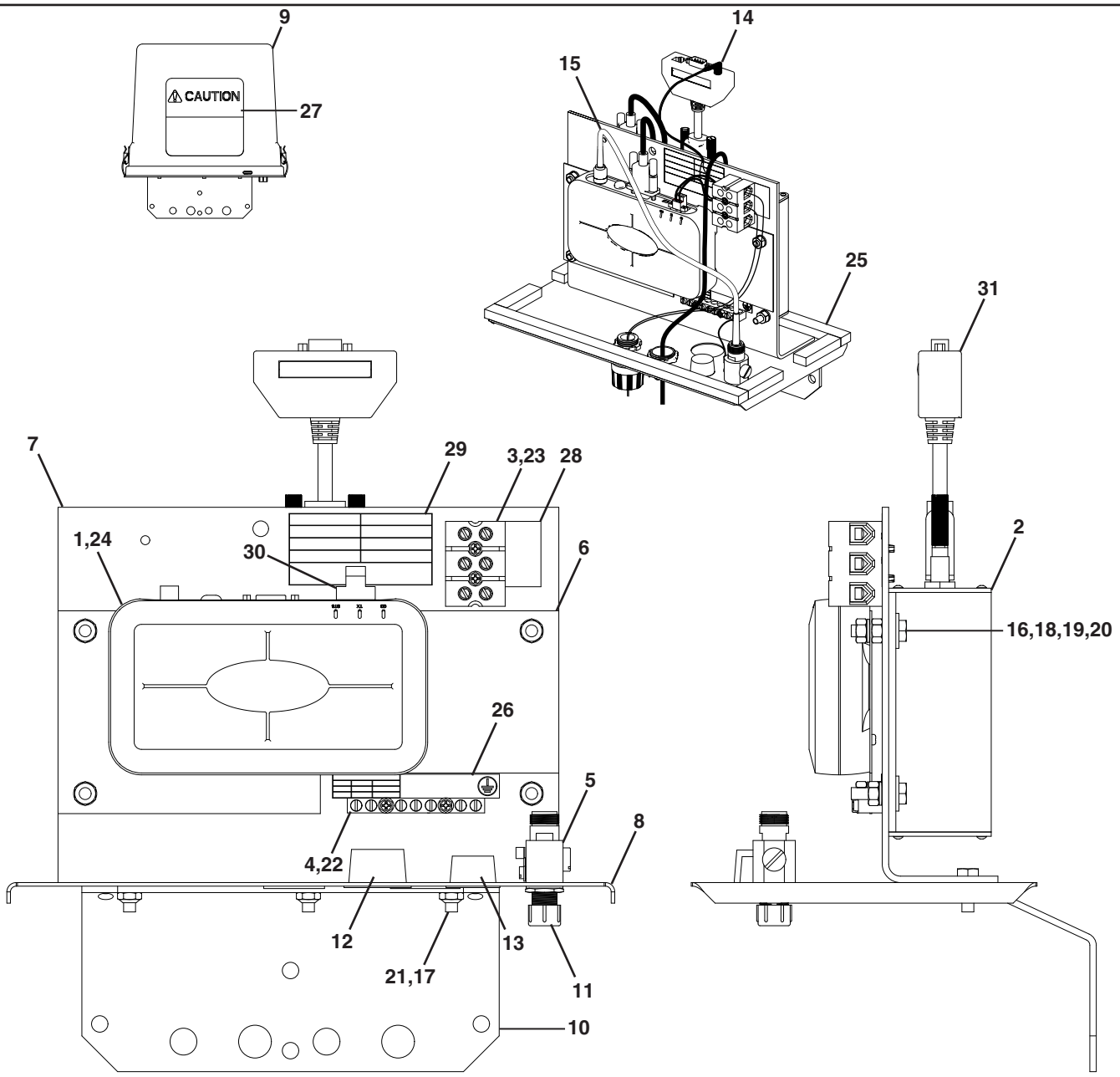
ITEM	DESCRIPTION	PART #
1	1/2" Hex Nut	0131015
2	1/4" Lock Nut - Grade B	0133008
3	1/2" Flat Washer - Wide	0142026
4	1/2" x 1" Cap Screw	0161028
5	1/4" x 3/4" Cap Screw - Grade 5	0161057
6	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
7	#6 x 1/4" Pan Head Screw - Phillips Head	0164188
8	#8-32 x 1/4" Self-Tapping Screw - Phillips Head	0164226
9	14 Caplug - Red	0261012
10	TTyton Ty Wrap - T50R Black (not shown)	0314225
11	Ground Lug - 7 Term.	0315120
12	Circuit Board Spacer - Snap-In	03E0412
13	Fuse - 2.5 Amp	03E2092
14	Snap Button Hole Plug - .875 Dia. Hole	03E2166
15	Power Supply - 12V	03E2809
16	Terminal Block - Din Rail Mount	03E2994
17	Terminal Stop End Cover	03E2995
18	Din Rail End Stop	03E2996

ITEM	DESCRIPTION	PART #
19	Fuse Block - Din Rail Mount	03E2997
20	Fuse Block Cover	03E2998
21	Freewave 916-928MHz RS232	03E4093
22	Gasket Kit	0992071
23	Decal - Ground	0992925
24	Decal - Copper Wire Only	0994836
25	Decal - Torque	0997601
26	Decal - 2.5 Amp AGC Fuse	0998308
27	Decal - Centerfeed Freewave Radio Box Term.	0998323
28	Mounting Plate	1702054
29	Din Rail Mount Channel - 3.5" Long	9311122
30	Electrical Tower Box Cover - UL	9311146
31	GPS Power Harness Assm. - 4 Pin 3 Wire	9311722
32	Bottom Plate	9311884
33	Vertical Plate	9311885
34	Radio Box Power Harness Assm. - 3 Pin 3 Wire	9312344

Freewave SSR 916-928MHz RS232 Radio Box Assm. 1815447

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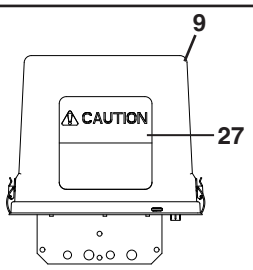
900 MHz Single-Frequency Trimble GPS Receiver Station

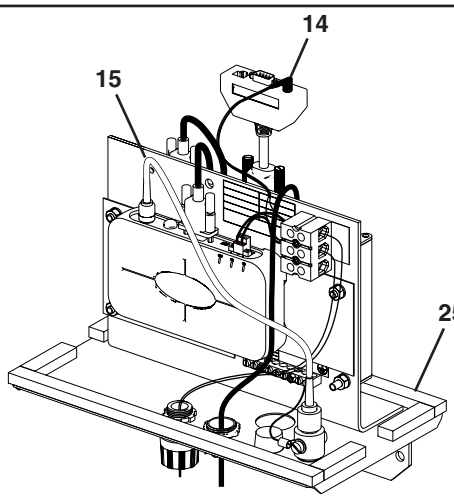


ITEM	DESCRIPTION	PART #
1	Freewave SSR 902-928MHz - RS232 TNC-F	03E3061
2	Single Frequency Reciever - Programmed	03E3650
3	Terminal Strip - 3 Term	0315121
4	Ground Lug - 7 Term.	0315120
5	Coaxial Surge Protector - 230V	03E3194
6	SSR Mounting Plate	9312377
7	Vertical Plate	9311889
8	Bottom Plate	9311884
9	Electrical Tower Box Cover - UL	9311146
10	Mounting Plate	1702054
11	Caplug - 5/8-24 Thread	0261057
12	14 Caplug - Red	0261012
13	12 Caplug	0261008
14	Power Plug - 2.1mm	03E2542
15	Antenna Jumper - N Male to SP-TNC Male	03E3539
16	1/4" Hex Nut	0131020
17	1/4" Lock Nut - Grade B	0133008
18	1/4" Lock Washer	0141009
19	1/4" Flat Washer	0142022
20	1/4" x 1" Cap Screw	0161056
21	1/4" x 3/4" Cap Screw - Grade 5	0161057
22	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
23	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
24	#6 x 1/4" Pan Head Screw - Phillips Head	0164188
25	Tower Box Gasket Kit	0992071
26	Decal - Ground	0992925
27	Decal - Caution Disconnect Off and Locked	0998331
28	Decal - Trimble Power	0998337
29	Decal - Terminal Block Torque Copper Wire	0998450
30	Power Input Connector	03E3905
31	Trimble Power Cable	03E3115

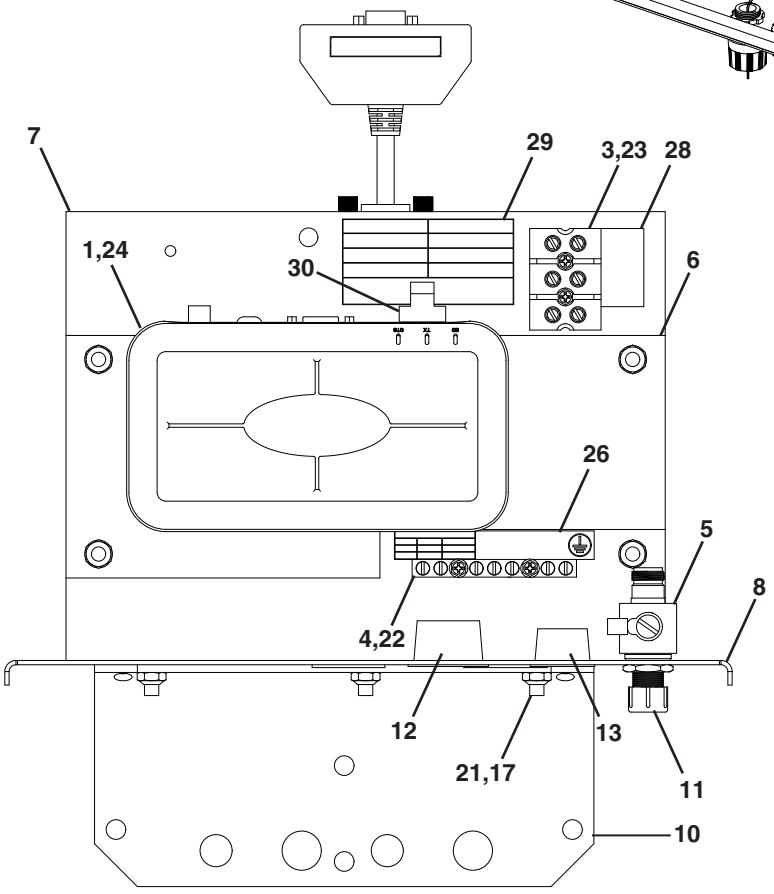
900MHz Single Frequency Receiver Station Assm. 1815214

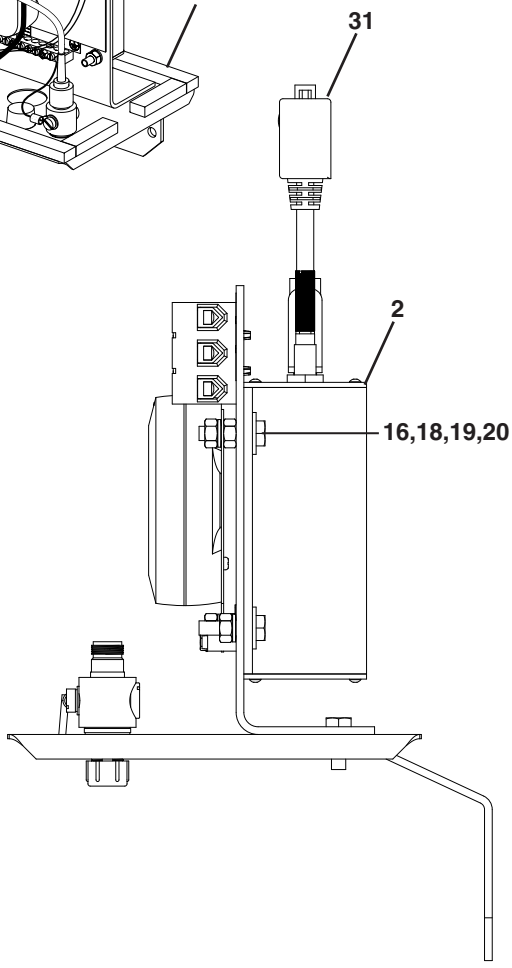
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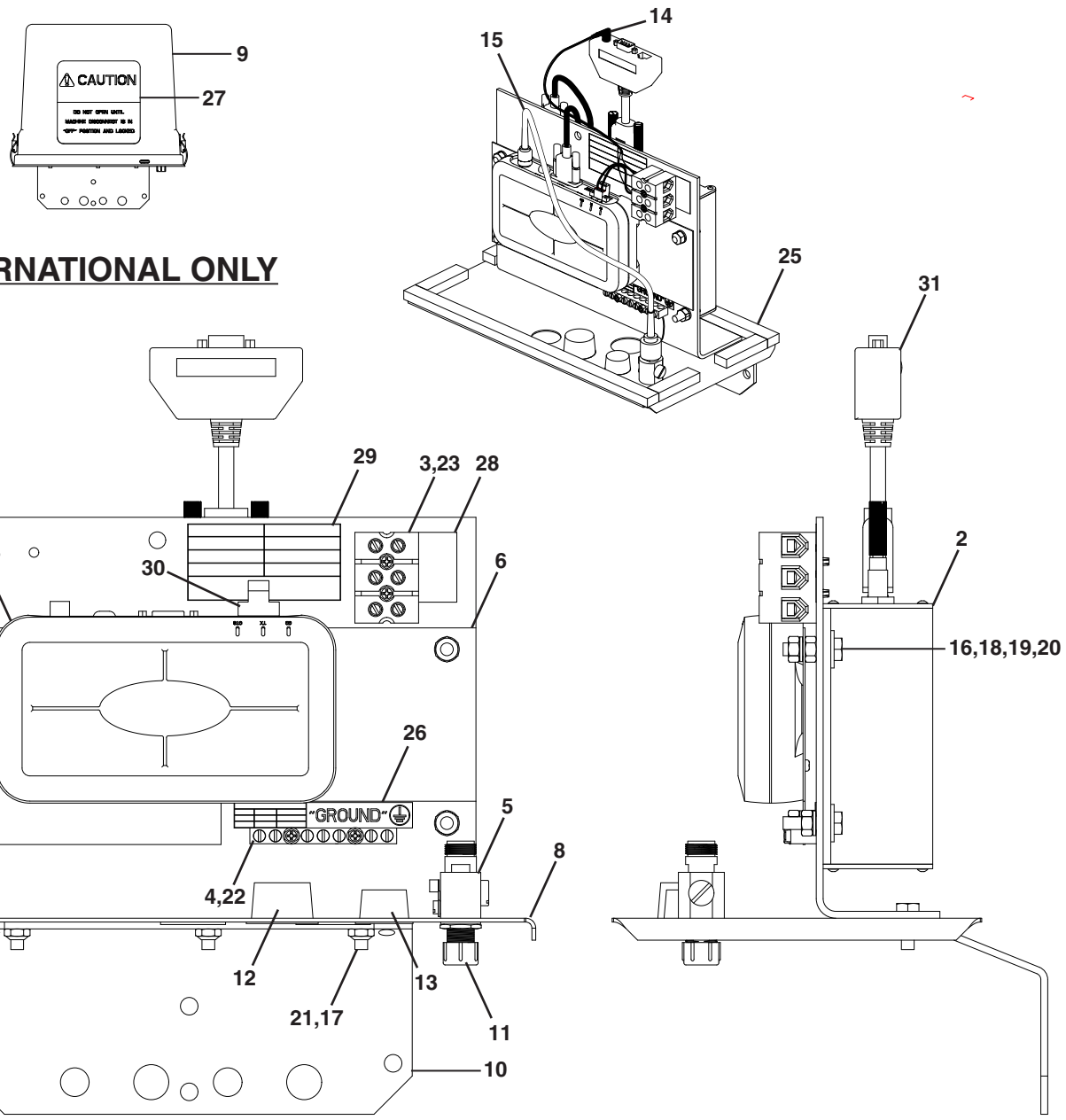


ITEM	DESCRIPTION	PART #
1	Freewave SSR Radio - 2.4 GHz	03E3915
2	Single Frequency Reciever - Programmed	03E3650
3	Terminal Strip - 3 Term	0315121
4	Ground Lug - 7 Term.	0315120
5	Coaxial Surge Protector - N-Female for SSR	03E3063
6	SSR Mounting Plate	9312377
7	Vertical Plate	9311889
8	Bottom Plate	9311884
9	Electrical Tower Box Cover - UL	9311146
10	Mounting Plate	1702054
11	Caplug - 5/8-24 Thread	0261057
12	14 Caplug - Red	0261012
13	12 Caplug	0261008
14	Power Plug - 2.1mm	03E2542
15	Antenna Jumper - N Male to SP-TNC Male	03E3539
16	1/4" Hex Nut	0131020
17	1/4" Lock Nut - Grade B	0133008

ITEM	DESCRIPTION	PART #
18	1/4" Lock Washer	0141009
19	1/4" Flat Washer	0142022
20	1/4" x 1" Cap Screw	0161056
21	1/4" x 3/4" Cap Screw - Grade 5	0161057
22	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
23	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
24	#6 x 1/4" Pan Head Screw - Phillips Head	0164188
25	Tower Box Gasket Kit	0992071
26	Decal - Ground	0992925
27	Decal - Caution Disconnect Off and Locked	0998331
28	Decal - Trimble Power	0998337
29	Decal - Terminal Block Torque Copper Wire	0998450
30	Power Input Connector	03E3905
31	Trimble Power Cable	03E3115

2.4GHz Single Frequency Receiver Station Assm..... 1815312

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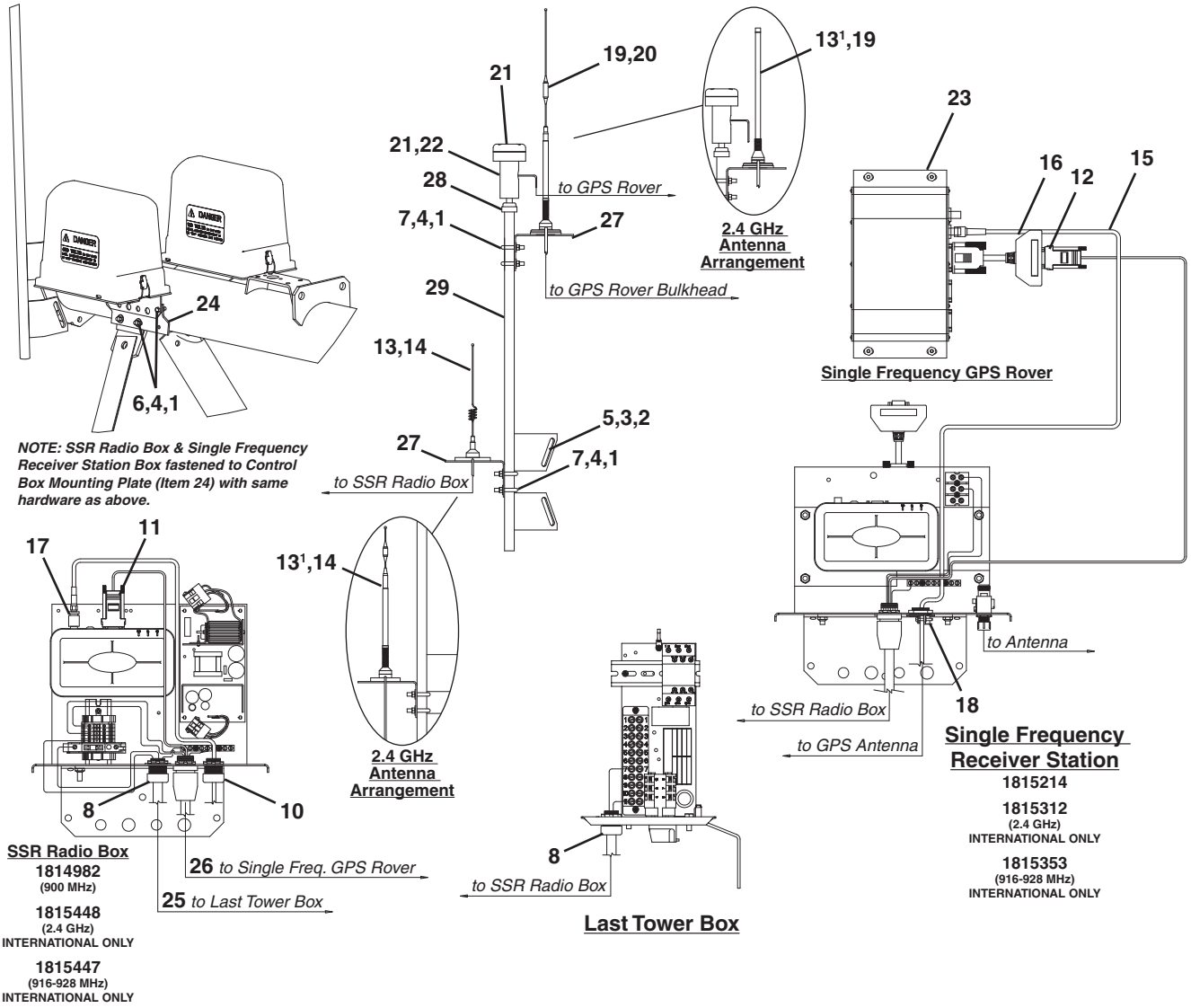
ITEM	DESCRIPTION	PART #
1	Freewave SSR Radio - 916-928MHz	03E4093
2	Single Frequency Reciever - Programmed	03E3650
3	Terminal Strip - 3 Term	0315121
4	Ground Lug - 7 Term.	0315120
5	Coaxial Surge Protector - 230V	03E194
6	SSR Mounting Plate	9312377
7	Vertical Plate	9311889
8	Bottom Plate	9311884
9	Electrical Tower Box Cover - UL	9311146
10	Mounting Plate	1702054
11	Caplug - 5/8-24 Thread	0261057
12	14 Caplug - Red	0261012
13	12 Caplug	0261008
14	Power Plug - 2.1mm	03E2542
15	Antenna Jumper - N Male to SP-TNC Male	03E3539
16	1/4" Hex Nut	0131020
17	1/4" Lock Nut - Grade B	0133008

ITEM	DESCRIPTION	PART #
18	1/4" Lock Washer	0141009
19	1/4" Flat Washer	0142022
20	1/4" x 1" Cap Screw	0161056
21	1/4" x 3/4" Cap Screw - Grade 5	0161057
22	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
23	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
24	#6 x 1/4" Pan Head Screw - Phillips Head	0164188
25	Tower Box Gasket Kit	0992071
26	Decal - Ground	0992925
27	Decal - Caution Disconnect Off and Locked	0998331
28	Decal - Trimble Power	0998337
29	Decal - Terminal Block Torque Copper Wire	0998450
30	Power Input Connector	03E3905
31	Trimble Power Cable	03E3115

916-928MHz Single Frequency Receiver Station Assm. ... 1815353

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Centerfeed Single-Frequency GPS Cable Routing



ITEM	DESCRIPTION	PART#
1	5/16" Hex Nut	0131019 *
2	1/2" Lock Nut	0133005 *
3	1/2" Flat Washer	0142025 *
4	5/16" Flat Washer - Stainless Steel	0142095 *
5	1/2" x 2-1/2" Cap Screw	0161023 *
6	5/16" x 1" Cap Screw	0161052 *
7	5/16" U-Bolt (provided w/ 2 Hex Nuts)	0176064 *
8	Strain Relief Connector	0315502 *
9	Wire Tie - Black Nylon 14.50" Long (not shown)	03E2004 *
10	Cord Connector - 1/2" Hub	03E2132 *
11	Connector-DB9 Male to RJ45 Female	03E2444 *
12	Connector-DB9 Fem. to RJ45 Fem. Null Modem	03E2810 *
13	SSR Omni Antenna - 3 db	03E3062
	Antenna - 2.4GHz (INTERNATIONAL ONLY)	03E3916 [1]
14	Antenna Mount - Magnetic 10'-15'	03E3080
15	Coaxial Cable - Male to 90° Male	03E3114
16	Trimble Power Cable	03E3115
17	Coaxial Adapter - SMA Female to TNC Male	03E3136 *
18	3/4" Romax Cable Connector	03E3163 *
19	Antenna Mount - Magnetic - 12'	03E3521
20	900MHz Antenna - 5 db	03E3528

ITEM	DESCRIPTION	PART#
21	AV33 L1/G1 Aviation Antenna	03E3605
22	Antenna Mount	03E3649
23	Receiver - Single Frequency (programmed)	02E3650
24	Control Box Mounting Plate	1700494 *
25	Power Cable - 3 Cond. 14 Ga. - 10' Long	1813424 *
26	Trimble Power Conduit w/Ethernet Cable Assm.	1814999
27	Antenna Mount - Mag Mount	9311890 *
28	GPS Antenna Mount	9363922 *
29	Short Antenna Mount Assm. - Threaded	9363972

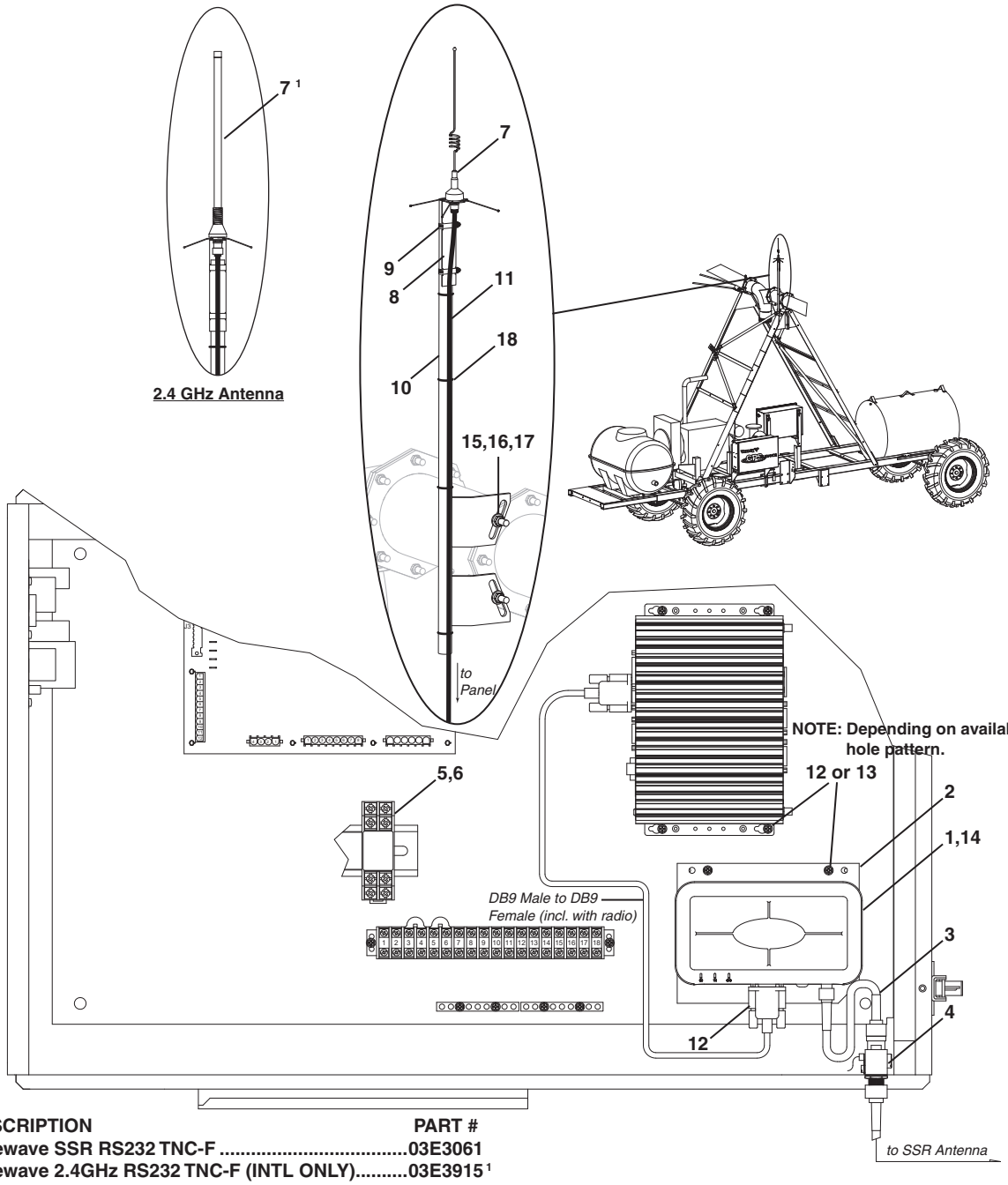
* GPS Single Frequency Centerfeed Linear Hardware Kit KA02680

* GPS Single Frequency 2.4GHz Centerfeed Linear Hardware Kit (INTERNATIONAL ONLY) KA02683

* GPS Single Frequency 916-928MHz Centerfeed Linear Hardware Kit (INTERNATIONAL ONLY) KA02681

NOTE: 916-928MHz application uses same antennas as 900MHz applicatiion (SSR Antenna 03E3062 & 900MHz Antenna 03E3528).

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ITEM	DESCRIPTION	PART #
1	Freewave SSR RS232 TNC-F	03E3061
	Freewave 2.4GHz RS232 TNC-F (INTL ONLY)	03E3915 [1]
	Freewave 916-928MHz SSR RS232 (INTL ONLY)	03E4093 [1]
2	SSR Mounting Plate	9311895 *
3	Jumper - TNC Male to N Male	03E3064 *
4	Coaxial Surge Protector - 230V	03E3194 *
5	Relay - DPDT 10A 12VDC	03E2564 *
6	Relay Socket - 2 Pole 10A 300V	03E2107 *
7	SSR Omni Antenna - 3dB	03E3062
	Antenna - 2.4GHz (INTERNATIONAL ONLY)	03E3916 [1]
8	SSR Antenna Mount	03E3087
9	Hose Clamp - 1-1/16" to 2"	0271013 *
10	Short Antenna Mount Assm.	9363972
11	3/8" Coaxial Cable - 30' Long - N-Male to N-Male	1814334
12	#8 x 1/2" Screw - Self Tapping - Phillips Head	0161355 *
13	#12 x 1/2" Sheet Metal Screw	0164231 *
14	#6 x 1/4" Phillips Head Screw	0164188 *
15	1/2" x 2-1/2" Cap Screw	0161023 *

ITEM	DESCRIPTION	PART #
16	1/2" Flat Washer	0142025 *
17	1/2" Lock Nut	0133005 *
18	Wire Tie - Black	03E2004 *

* Centerfeed GPS In-Panel Hardware Kit KA01438
(electrical wiring included with kit)

* Centerfeed GPS In-Panel Hardware Kit - 2.4GHz... KA02684 [1]
(electrical wiring included with kit) (INTERNATIONAL ONLY)

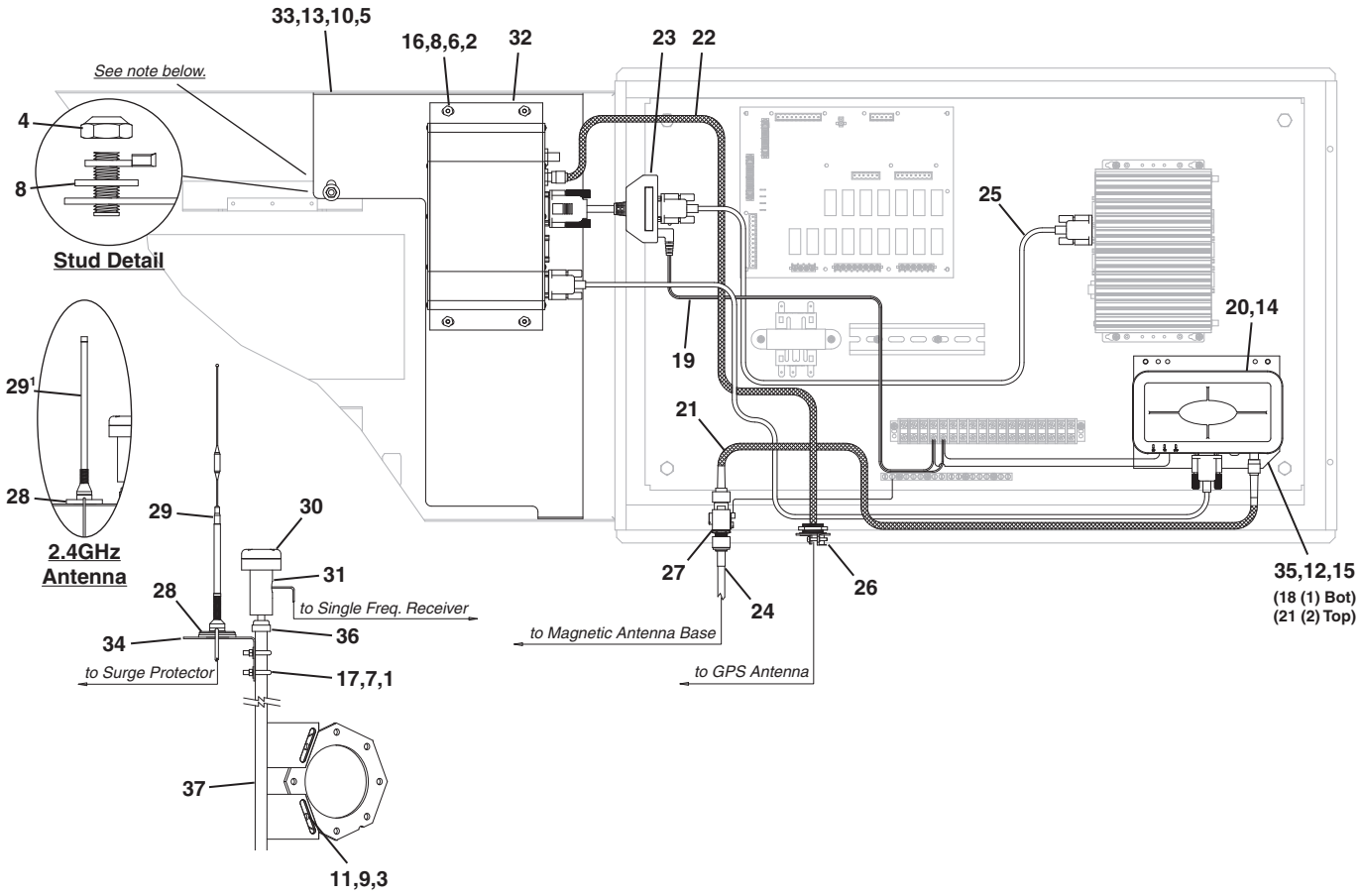
* Centerfeed GPS In-Panel Hardware Kit - 916-928MHz .KA02682 [1]
(electrical wiring included with kit) (INTERNATIONAL ONLY)

[1] INTERNATIONAL ONLY

NOTE: 916-928MHz application uses same antenna as 900MHz applicatiion (SSR Antenna 03E3062).

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Endfeed GPS Guidance In Panel



ITEM	DESCRIPTION	PART #	
1	5/16" Hex Nut	0131019	*
2	1/4" Hex Nut	0131020	*
3	1/2" Lock Nut	0133005	*
4	1/4" Lock Nut	0133008	*
5	#8 Hex Nut w/ External Tooth Lock Washer	0134059	*
6	1/4" Lock Washer	0141009	*
7	5/16" Flat Washer - Wide	0142017	*
8	1/4" Flat Washer - Wide	0142022	*
9	1/2" Flat Washer	0142025	*
10	#8 Flat Washer - Stainless Steel	0142084	*
11	1/2" x 2-1/2" Cap Screw	0161023	*
12	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355	*
13	#8 x 3/8" Machine Screw - Pan Head	0164110	*
14	#6 x 1/4" Machine Screw - Phillips Pan Head	0164188	*
15	#12 x 1/2" Sheet Metal Screw - Pan Head PH/SL	0164231	*
16	1/4" x 20mm Screw - Allen Socket	0164234	*
17	U-Bolt - 5/16" x 1.38" x 2.19"	0176064	*
18	Wire Tie Black - Nylon 12 14.50" (not shown)	03E2004	*
19	Power Plug - 2.1mm	03E2542	*
20	Freewave 900MHz SSR TNC-F Radio	03E3061	
	Freewave 2.4GHz RS232 TNC-F Radio (INTL ONLY)	03E3915	
	Freewave 916-928MHz SSR RS232 (INTL ONLY)	03E4093	
21	Coax. Ant. Jumper - 3' LMR240N-Male to TNC-Male	03E3064	*
22	Coaxial Cable - Male to 90° Male	03E3114	
23	Trimble Power Cable	03E3115	
24	N Male to N Female Cable - 15'	03E3126	

ITEM	DESCRIPTION	PART #	
25	Cable - DB9 Female to DB9 Female Null Modem - 4'	03E3137	*
26	Romax Cable Connector	03E3163	*
27	Coaxial Surge Protector - 230V	03E3194	
28	Magnetic Antenna Mount	03E3521	
29	900MHz Antenna - 5 db	03E3528	
	2.4GHz Antenna - 5 db (INTL ONLY)	03E3916	
30	AV33 L1/G1 Aviation Antenna	03E3605	
31	Antenna Mount	03E3649	
32	Single Frequency Receiver - Programmed	03E3650	
33	Panel Door Bracket	9311874	
34	Magnetic Antenna Mount	9311890	
35	SSR Mounting Plate	9311895	
36	GPS Antenna Mount Assm.	9363922	
37	Short Antenna Mount Assm. - Threaded	9363972	

* Endfeed Lin. SFGGS In-Panel Mount Hardware Kit 900MHz KA02693

* Endfeed Lin. SFGGS In Panel Mount Hardware Kit 2.4GHz (INTL ONLY) KA02697

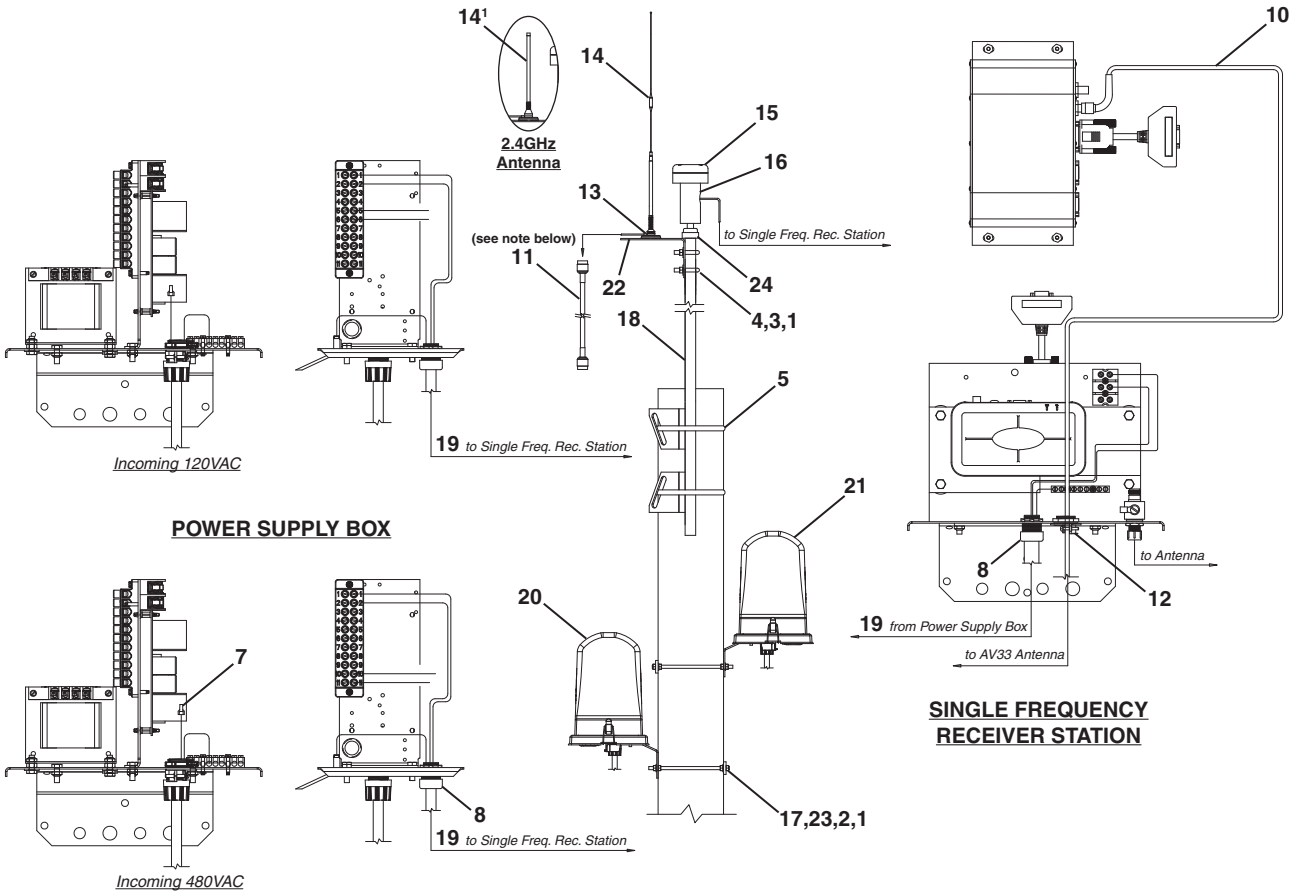
* Endfeed Lin. SFGGS In Panel Mount Hardware Kit 916-928MHz (INTL ONLY) KA02696

[1] INTERNATIONAL ONLY

NOTE: If grounding stud is present, see Stud Detail.

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Single Frequency GPS Shared Reference Station

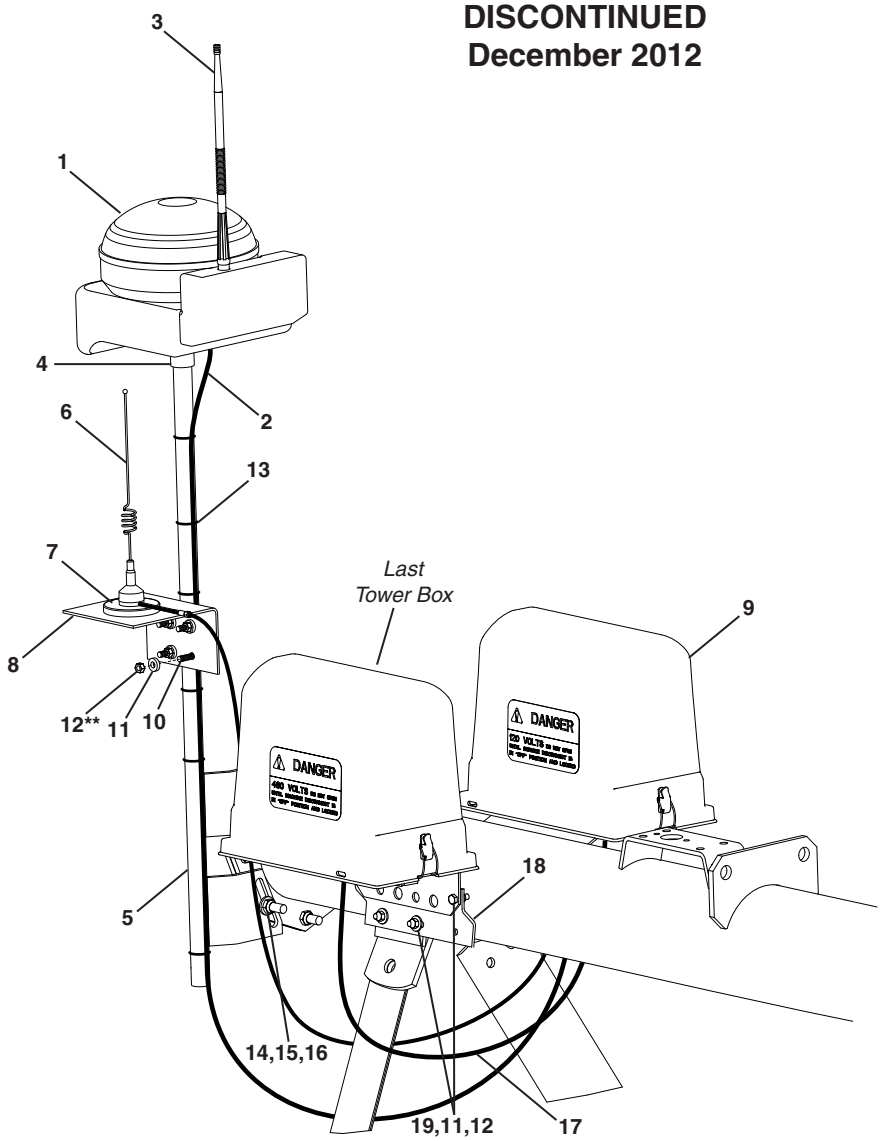


ITEM	DESCRIPTION	PART #
1	5/16" Hex Nut - Stainless Steel	0131037 *
2	5/16" Flat Washer - Wide	0142017 *
3	5/16" Flat Washer - Stainless Steel	0142095 *
4	5/16" U-Bolt	0176064 *
5	Hydraulic Tube Clamp - 42"	0271051 *
6	Strain Relief Hub - .50 Hub	0314119 *
7	Schtchlok Connector	0314151 *
8	Strain Relief Connector	0315502 *
9	Nylon 12 Wire Tie - Black (not shown)	03E2004 *
10	Coaxial Cable - Male to 90° Male	03E3114
11	Cable - N Male to N Female - 15'	03E3126
12	Cable Connector - Romax 3/4"	03E3163 *
13	Magnetic Antenna Mount	03E3521
14	900MHz Antenna - 5 db	03E3528
	2.4GHz Antenna - 5 db	03E3916
15	Aviation Antenna - AV33 L1/G1	03E3605
16	Antenna Mount	03E3649
17	Adjustment Rod - Stainless Steel	1731232 *
18	Universal Running Light Bracket Assm.	1781544
19	Power Cable - 3 Cond. 10'	1813424 *
20	Power Box Assm. - 480/120 VAC In - 12 VDC Out	1814762
21	916-928MHz Single Frequency Receiver Station Assm.	1815353
	2.4GHz Single Frequency Receiver Station Assm.	1815312 [1]
22	Magnetic Antenna Mount	9311890 *
23	GPS Reference Station Mounting Bracket	9363561 *
24	GPS Antenna Mount Assm.	9363922 *

***Single Frequency Reference Station Hardware Kit KA01760**

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DISCONTINUED
December 2012



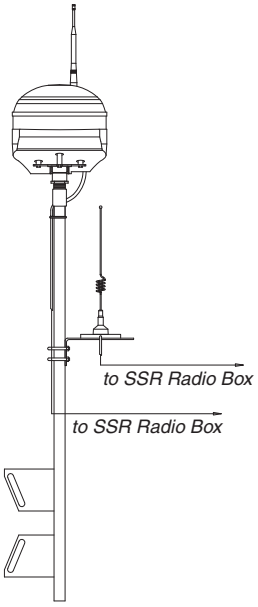
ITEM	DESCRIPTION	PART #
1	GPS Guidance Receiver - SF 3000, 900 MHz	03E3138
2	Serial Cable - Starfire 3000 (OBSOLETE Sep 17)	03E3145
3	Antenna - 1 Watt Rubber (OBSOLETE Sep 17)	03E2857
4	3/4" Romax Lock Nut	0315132
5	Short Antenna Mount Assm.	9363972
6	SSR Omni Antenna - w/o Mount	03E3062
7	Magnetic Antenna Mount	03E3080
* 8	Magnetic Mount Bracket	9311890
9	Freewave SSR RS232 Radio Box Assm.	1814982
*10	5/16" U-Bolt	0176064
*11	5/16" Flat Washer - Stainless Steel	0142095

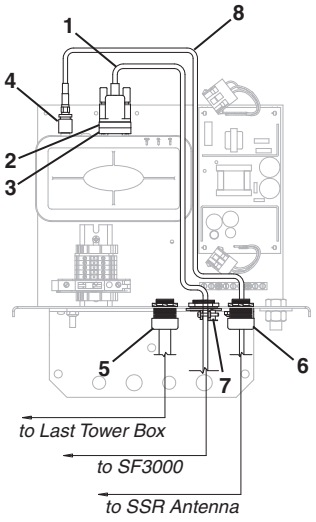
ITEM	DESCRIPTION	PART #
12	5/16" Hex Nut	0131019
*13	Wire Tie - Black	03E2004
*14	1/2" x 2-1/2" Cap Screw	0161023
*15	1/2" Flat Washer	0142025
*16	1/2" Lock Nut	0133005
*17	Electrical Cable - 3 Cond - 10' Long	1813424
*18	Control Box Mounting Plate	1700494
*19	5/16" x 1" Cap Screw	0161052

** NOTE: Hex Nuts provided with U-Bolt (0176064).

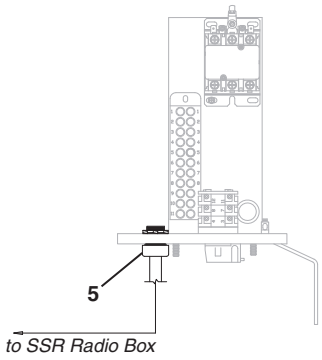
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December 2012





SSR Radio Box

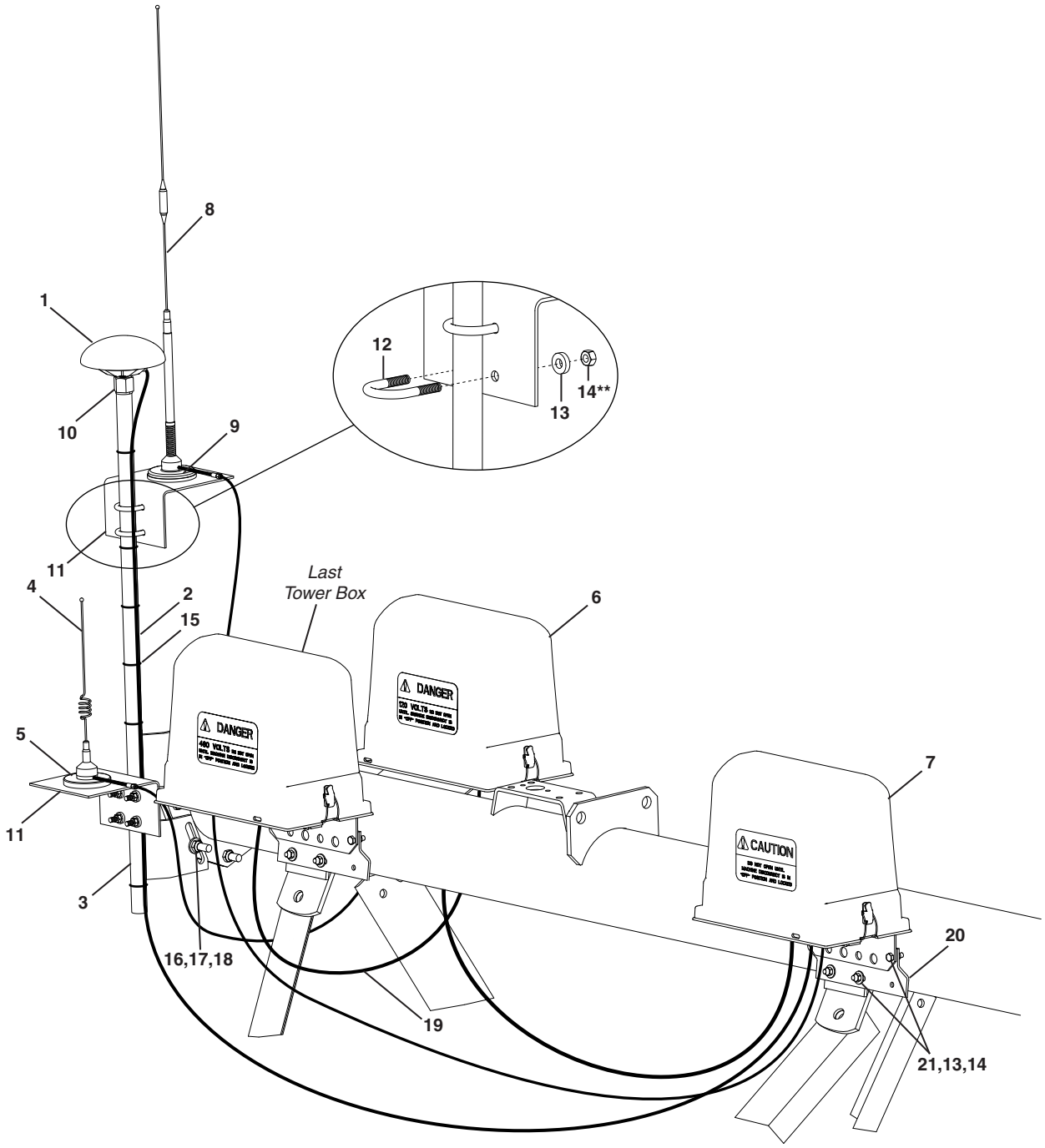


Last Tower Box

ITEM	DESCRIPTION	PART #
1	Serial Cable - Starfire 3000 (OBSOLETE Sep 17)	03E3145
* 2	Adapter - Null Modem	03E2317
* 3	Adapter - DBP Male-Female	03E2551
* 4	Adapter - TNC Male to SMA	03E3136
* 5	Strain Relief	0315502
* 6	Strain Relief	03E2132
7	Cable Connector	03E3163
8	Coxial Cable - SP-TNC Male to SP-TNC Male	03E3114

* Centerfeed SF3000 GPS Hardware Kit KA01467
(see previous page for additional kit parts) (OBS. Sep 17)

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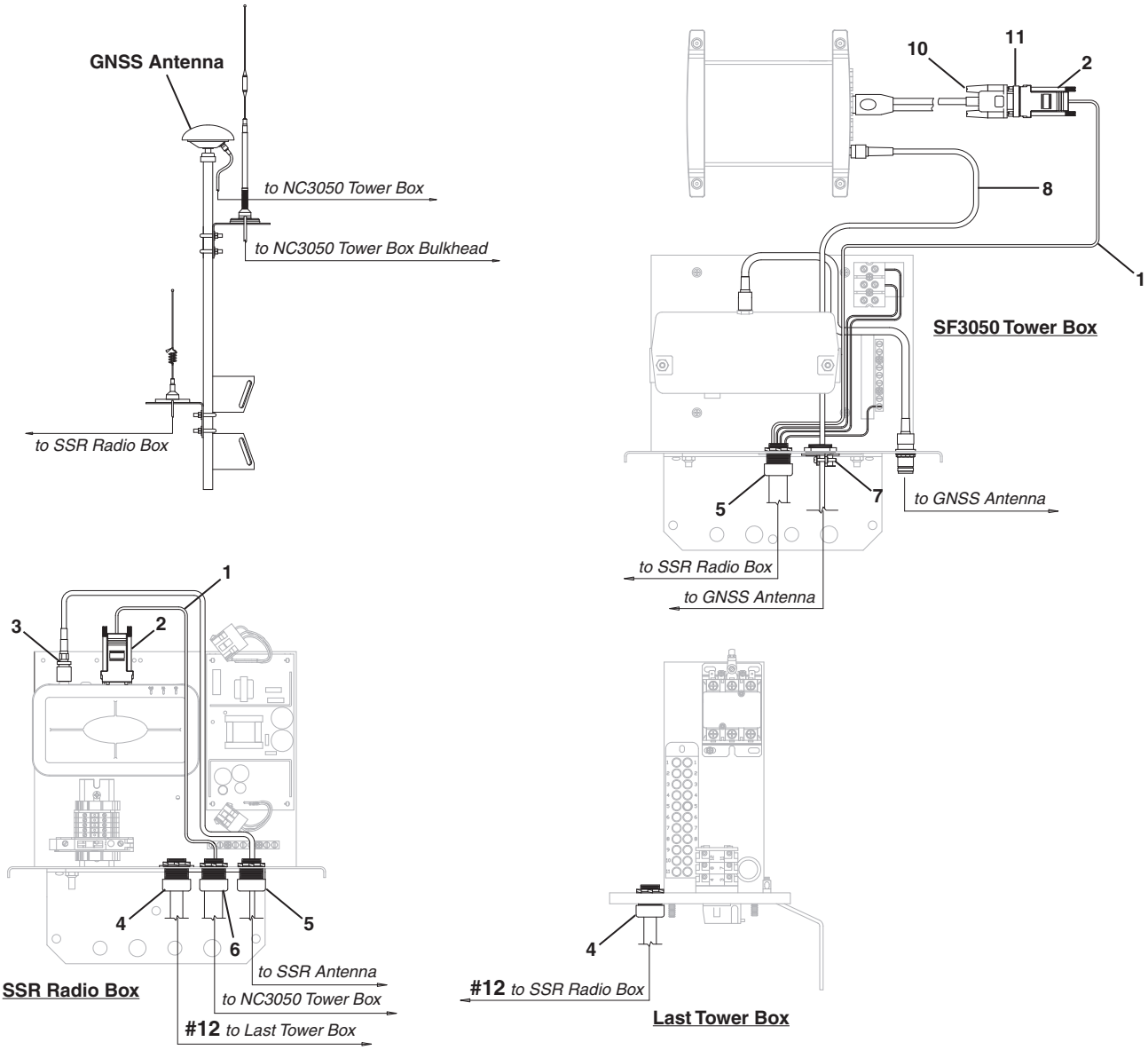
ITEM	DESCRIPTION	PART #
1	NavCom GNSS Antenna (OBSOLETE Sep 17)	03E3520
2	GNSS Antenna Cable	03E3522
3	Short Antenna Mount Assm.	9363972
4	SSR Omni Antenna - w/o Mount	03E3062
5	Magnetic Antenna Mount	03E3080
6	Freewave SSR RS232 Radio Box Assm.	1814982
7	NC3050 Tower Box Assm. - 400 MHz (OBS. Sep 17)	1815121
	- 900 MHz (OBS. Sep 17)	1815120
8	Antenna - 400 MHz (OBSOLETE Sep 17)	03E3527
	- 900 MHz	03E3528
9	Magnetic Antenna Mount	03E3521
*10	GPS Antenna Mount Assm.	9363922
*11	Magnetic Mount Bracket	9311890
*12	5/16" U-Bolt	0176064

ITEM	DESCRIPTION	PART #
*13	5/16" Flat Washer - Stainless Steel	0142095
*14	5/16" Hex Nut	0131019
*15	Wire Tie - Black	03E2004
*16	1/2" x 2-1/2" Cap Screw	0161023
*17	1/2" Flat Washer	0142025
*18	1/2" Lock Nut	0133005
*19	Electrical Cable - 3 Cond - 10' Long	1813424
*20	Control Box Mounting Plate	1700494
*21	5/16" x 1" Cap Screw	0161052
	Magnetic Mount & 5db Omni Antenna Kit	KA02411
	(incl. 900 Mhz 5 db Ant. (03E3528) & Magnetic Ant. Mount 03E3521)	

** NOTE: Hex Nuts provided with U-Bolt (0176064).

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Centerfeed NavCom3050 GPS Cable Routing



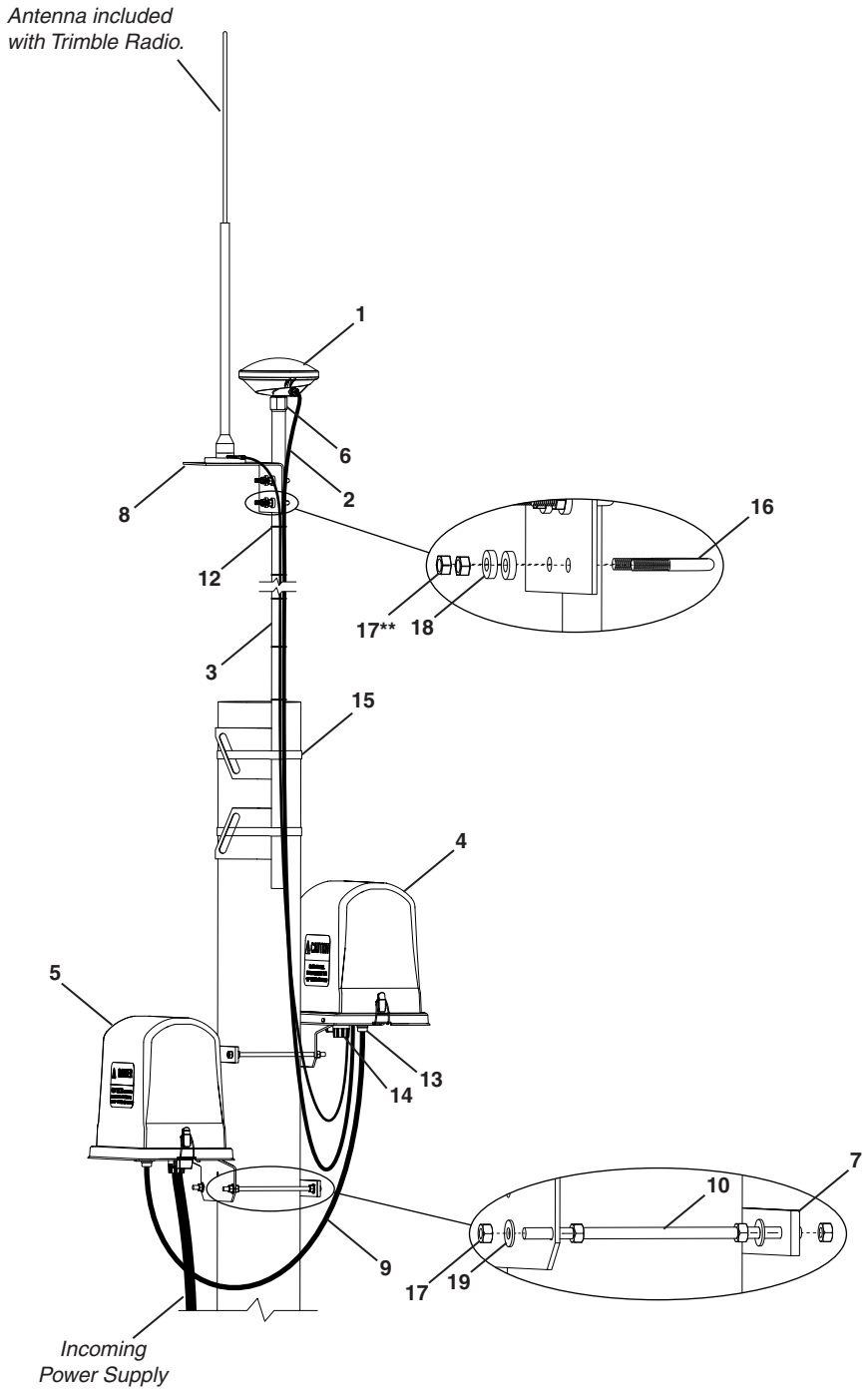
ITEM	DESCRIPTION	PART #
1	Ethernet Cable - 12' Long	03E3173
* 2	DB9 Male to RJ45 Female Connector	03E2444
* 3	Adapter - TNC Male to SMA	03E3136
* 4	Strain Relief	0315502
* 5	Strain Relief	03E2132
**6	Power Conduit Assm. - 3/4" Non-Metallic	1814999
* 7	Cable Connector	03E3163
8	GNSS Antenna Cable	03E3522
9	Coxial Cable - SP-TNC Male to SP-TNC Male	03E3114
10	9 Pin Male to RJ45 & DB9 Female Y-Cable (OBS. Sep 17)	03E3525
*11	DB9 Null Modem Adapter	03E2317
12	Power Cable - 3 Cond. 14 Ga. - 10' Long	1813424

* Centerfeed NC3050 GPS Guidance Hardware Kit KA01467
(see previous page for additional kit parts) (OBSOLETE Sep 17)

** NOTE: Power Conduit Assm. Incl. Ethernet Cable (03E3173)

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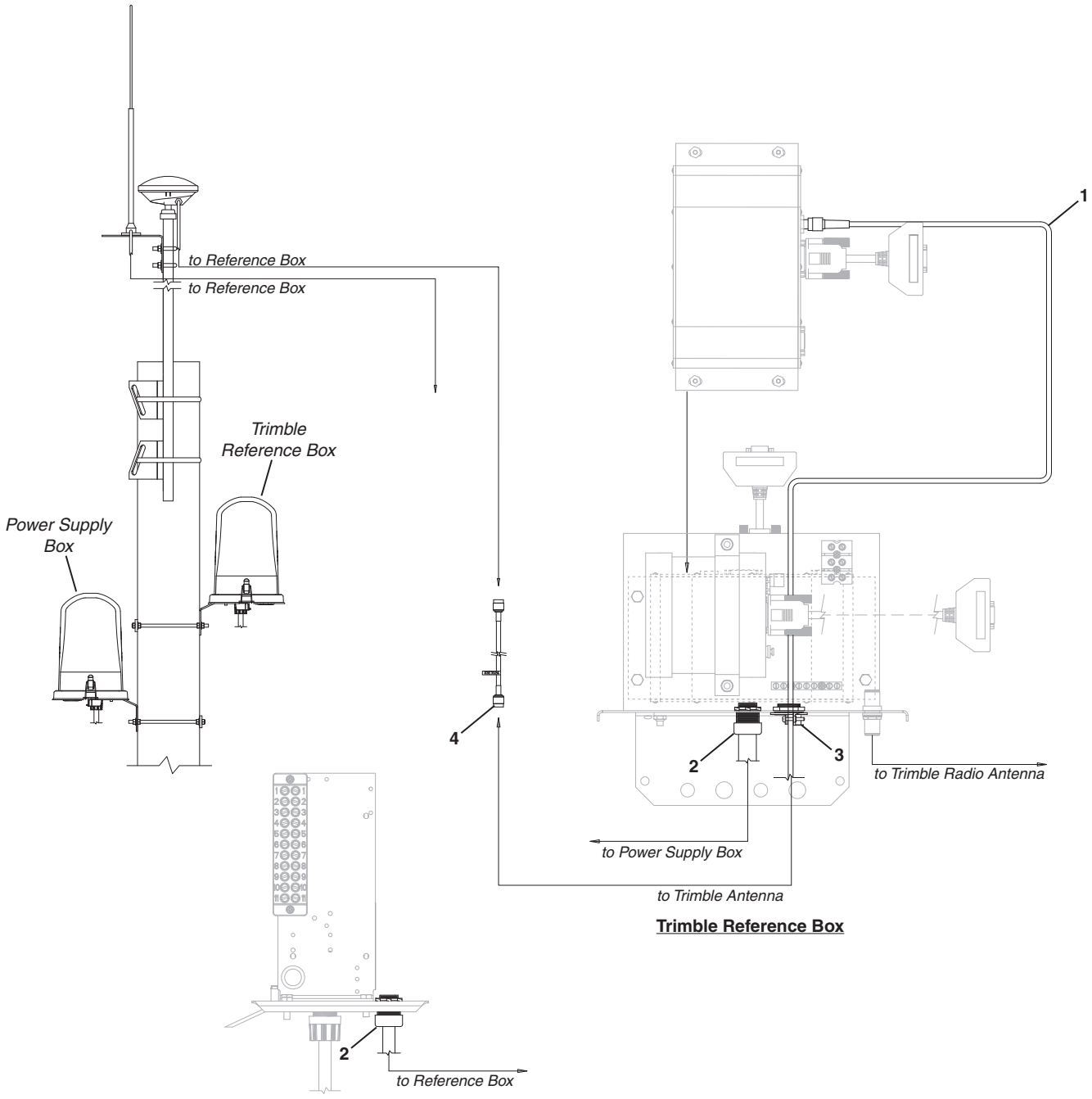
Trimble GPS Reference Station Mounting



ITEM	DESCRIPTION	PART #
1	Trimble Antenna	03E3113
2	Coaxial Cable - Male to 90° Male	03E3114
3	Running Light Bracket Assm.	1781544
4	900MHz Trimble Reference Station Assm.	1814998
5	Power Box - 480/120 VAC in to 12VDC out	1814762
* 6	GPS Antenna Mount Assm	9363922
* 7	GPS Reference Station Mounting Bracket	9363561
* 8	Magnetic Mount Bracket	9311890
* 9	Electrical Cable - 3 Cond - 10' Long	1813424
*10	Threaded Adjustment Rod	1731232
*11	3/4" Cable Connector - Romax (not shown)	03E3163
*12	Wire Tie - Black	03E2004
*13	Strain Relief Connector	0315502
*14	Strain Relief Hub	0314119
*15	Clamp - 42" Long	0271051
*16	5/16" U-Bolt	0176064
*17	5/16" Flat Washer - Stainless Steel	0142095
*18	5/16" Hex Nut - Stainless Steel	0131037
*19	1/4" Flat Washer - Wide	0142022

** NOTE: Hex Nuts provided with U-Bolt (0176064).

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ITEM	DESCRIPTION	PART #
1	Coxial Cable - SP-TNC Male to SP-TNC Male	03E3114
* 2	Strain Relief	0315502
* 3	Cable Connector	03E3163
4	Coaxial Cable - N Male to N Female - 15' (if needed)	03E3126

*** Trimble Reference Station Hardware Kit KA01469**
(see previous page for additional kit parts)
(kit includes Scotchlock Connectors and Self-Bonding sillicone tape)

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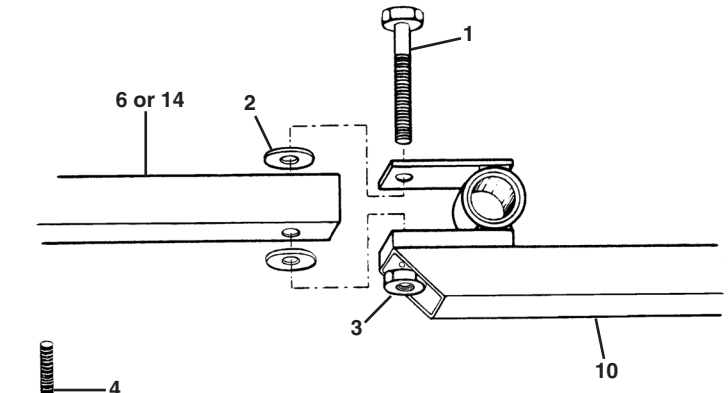
ALIGNMENT

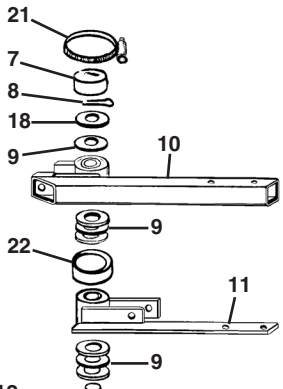
Rainger Linear - Effective 6/06

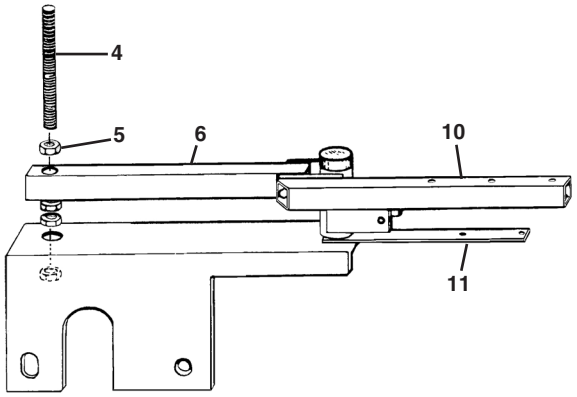
Description	Rev. #	Pg. #
Floating Alignment Controls	04-19	5-3
Control Tower Box Hardware	05-07	5-4
Modified Alignment	04-17	5-5

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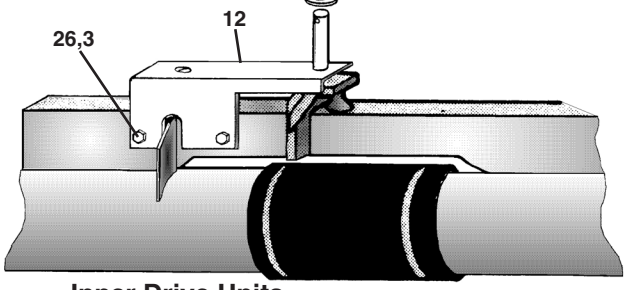
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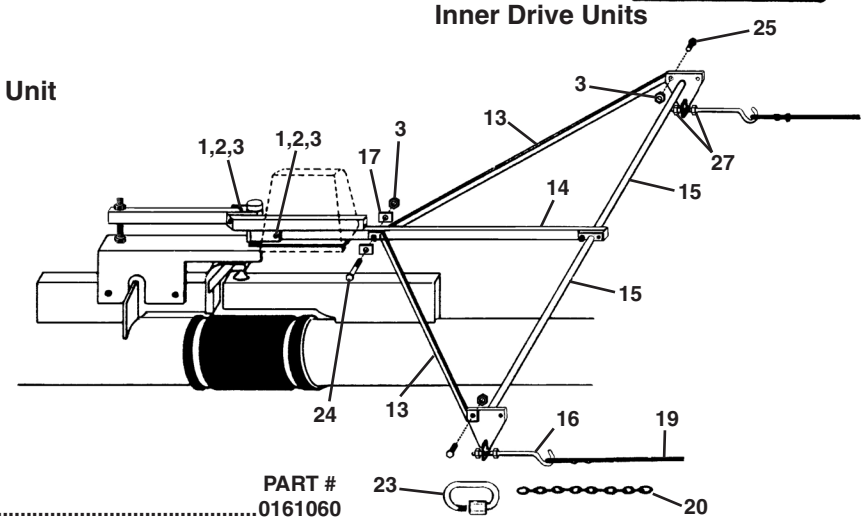




Next to Last Drive Unit

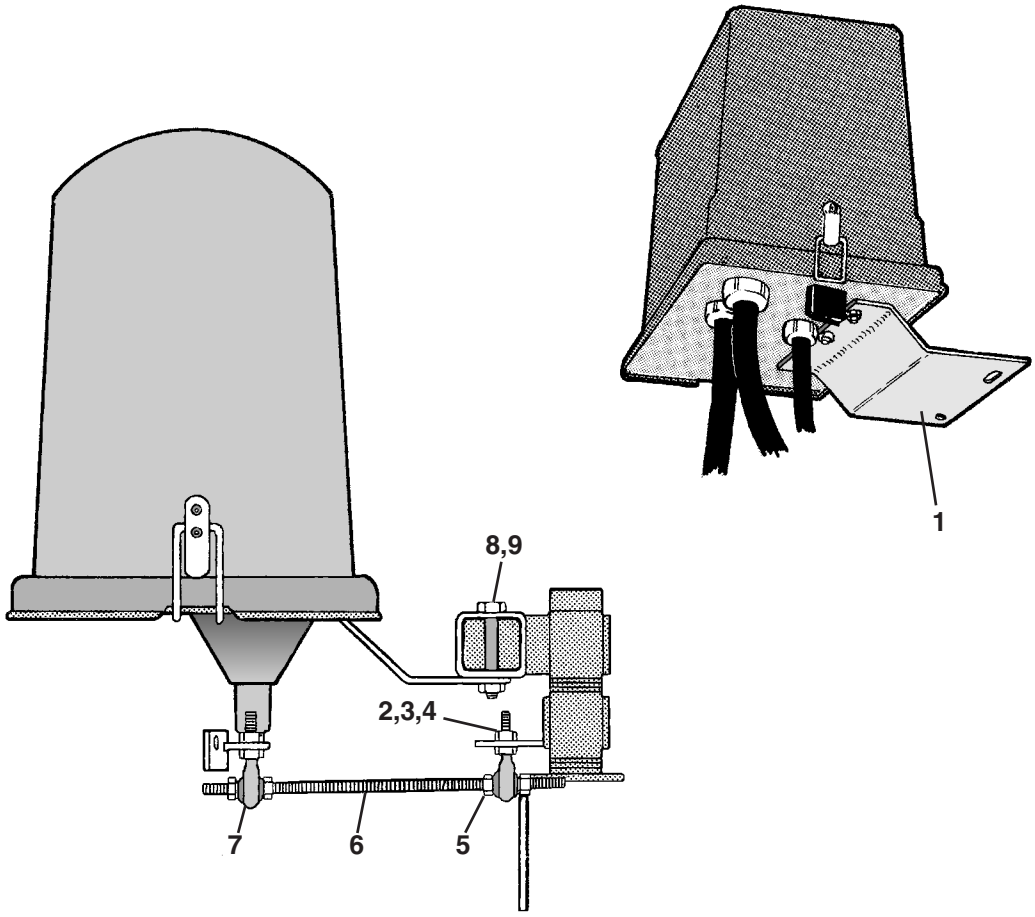


Inner Drive Units



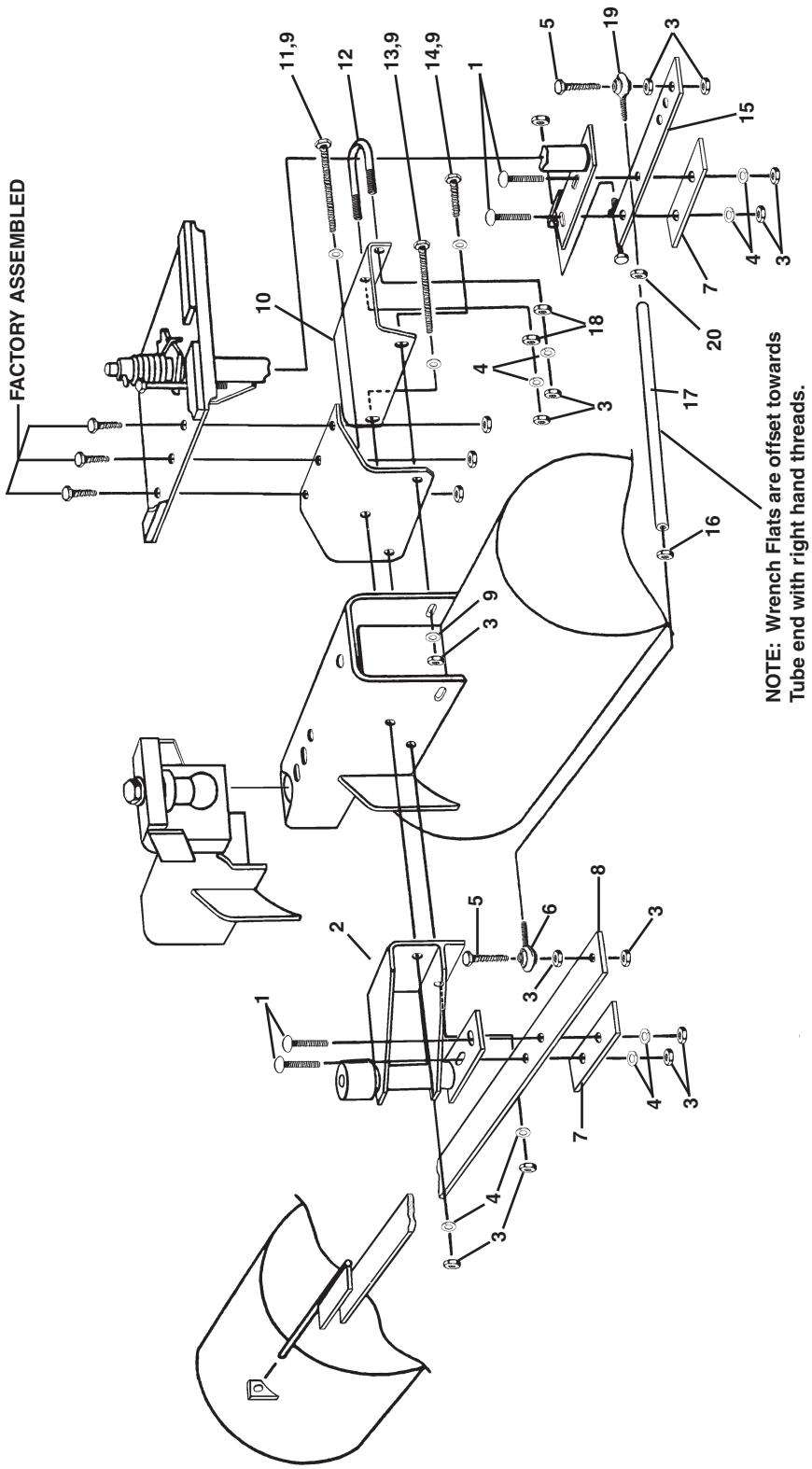
ITEM	DESCRIPTION	PART #
1	1/2" x 3 1/2" C.S.	0161060
2	1/2" Flat Washer	0142026
3	1/2" Locknut	0133005
4	Stabilizer Stud	1730579
5	3/4" Nut	0131008
6	Outer Tower Box Stabilizer	1730580
7	Caplug	0261033
8	3/16" x 2" Cotter Pin	0151015
9	Alignment Washer	1730570
10	Yoke & Tower Box Support w/Bushing	1731299
	2-1/2" Plastic Bushing Only	1731297
11	Yoke and Control Rod with Bushing	1730562
	2" Plastic Bushing Only	1731296
12	Alignment Shaft Assy. 5.125" Stack Ht. - Red	1731300
13	Brace	1730485
14	Alignment Tube	1730571
15	Cable Attachment Assy.	1730572
16	3/8" x 8" Hook Bolt	0161366
17	Pad	1730478
18	Stainless Steel Washer	0141067
19	Alignment Cables — S.S. / GALV.	
	115' [29.2m]	9364239 / 9330036
	135' [34.3m]	9364240 / 9330008
	140' [35.6m]	9364241 / 9330037
	142' [36.1m]	9364242 / 9330248
	157.5' [40.0m]	9364243 / 9330009
	160' [40.6m]	9364244 / 1731011
	161' [40.9m]	9364245 / 9330247
	180' [45.7m]	9364246 / 1781578
	185' [47.0m]	9364247 / 9330010
	187' [47.5m]	9364248 / 1781579
	199' [60.7m]	9364249 / 9330246
	205' [62.5m]	9364251 / 9330012
20	Single Transition Chain (24 Links)	1730581
	Cart Extension Chain (84 Links)	0323041
21	Hose Clamp 1-3/4"	0271064
22	Bearing Sleeve	0993010
23	Threaded Chain Connector	0323042
24	1/2" x 3" C.S.	0161136
25	1/2" x 1" C.S.	0161028
26	1/2" x 4-1/2" C.S.	0161110
27	3/8" Hex Nut	0131018

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ITEM	DESCRIPTION	PART #
1	Tower Box Mounting Plate	1730577
2	5/16" - 24 Nut	0131068
3	5/16" Lock Washer	0141008
4	5/16" Flat Washer	0142017
5	5/16" Nut	0131037
6	Adjustment Rod	1731232
7	5/16" Ball Joint Rod End, R.H.	0992984
	5/16” Ball Joint Rod End, R.H. (Stain. Steel)	0996131
8	1/2" x 2-1/2" Cap Screw	0161023
9	1/2" Lock Nut	0133005

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ITEM	DESCRIPTION	PART #
1	5/16" x 1-1/4" Carriage Bolt	0175013
2	Housing Control Bar Pivot	1703462
3	5/16" Hex Nut	0131019
4	5/16" Lock Washer	0141008
5	5/16" x 2" Cap Screw	0161079
6	5/16" Ball Joint Rod End, R.H.	0992984
	5/16" Ball Joint Rod End, R.H. (Stain. Steel)	0996131
7	Lower Keeper Plate	1700156
8	Control Bar Long	1703457
9	5/16" Flat Washer	0142017
10	Sensor Bearing Bracket	1702294

ITEM	DESCRIPTION	PART #
11	5/16" x 4" Cap Screw	0161181
12	5/16" x 1" x 2-3/16" U-Bolt	0176049
13	5/16" x 4-1/2" Cap Screw	0161191
14	5/16" x 1" Cap Screw	0161052
15	Control Bar Short	1703455
16	5/16" Hex Nut - Fine, R.H.	0131066
17	Tube, Adjustable Linkage	0995852
18	3/8" Hex Nut	0131018
19	5/16" Ball Joint Rod End, L.H.	0995851
	5/16" Ball Joint Rod End, L.H. (Stain. Steel)	0996130
20	5/16" Hex Nut - Fine, L.H.	0131075

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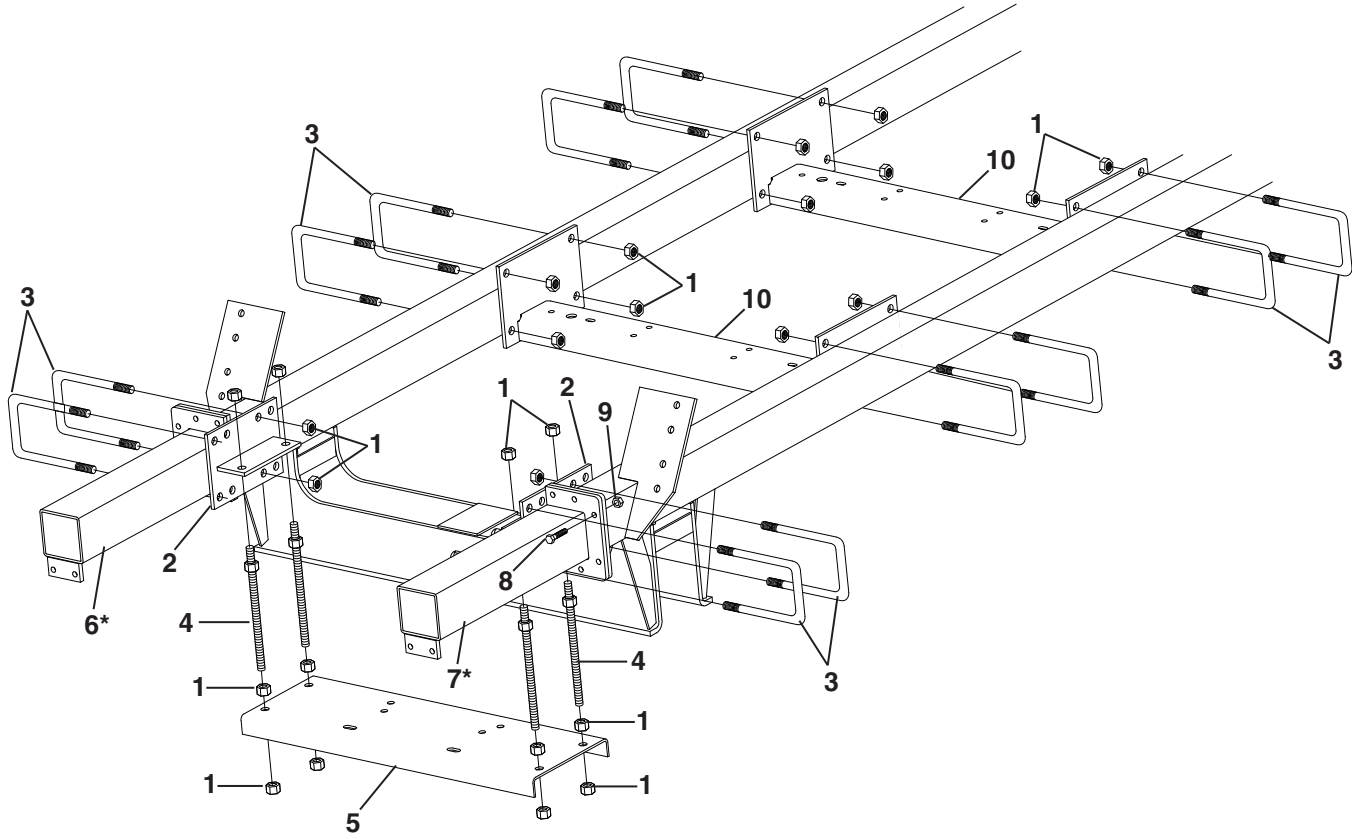
POWER SUPPLY

Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
Generator and Engine Mounts	01-19	6-3
Cornell Pump Parts	06-07	6-4
Cornell Pump Parts	04-17	6-5
Pioneer Pump Parts	04-17	6-6
Pioneer Pump Parts	04-17	6-7
Swing-Around Pump-to-Riser Connections - PRIOR To Jul 2015	03-17	6-8
Swing-Around Pump-to-Riser Connections - EFFECTIVE Jul 2015	01-19	6-9
Generators	01-19	6-10
Generator Shields	06-06	6-11
Generator Sheaves	02-18	6-12
Battery Box Mount	07-17	6-13
Exhaust Primer	06-06	6-14
Slide Primer	03-07	6-15
Compressed Air Vacuum Pump Primer	11-17	6-16
Engine/Generator Sets	05-17	6-17
Engine/Generator Mounts Standard Cart	06-06	6-18
Engine/Generator Mounts Swing-Around Cart	05-17	6-19
Cart Hardware	01-19	6-20
Safety Adjustment Spring	06-06	6-21
Electric Cord Pull Safety Switch	06-06	6-22
Junction Box Pedestal	06-06	6-23
Power Pedestal	04-11	6-24

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ITEM	DESCRIPTION	PART #
1	3/4" Hex Nut	0131008
2	Bracket-Generator Mount	1731741
3	3/4" x 7" U-Bolt	0176048
4	Adjusting Stud - 11.88" Long	1730162
	Adjusting Stud - 18.00" Long	0996777
5	Generator Mount	9362263
6	Frame Extension, Right	9362317 *
7	Frame Extension, Left	9362277 *
8	1/2" x 2" Cap Screw	0161024
9	1/2" Lock Nut	0133005
10	Engine Mount	9362295

***Items 6 & 7 are only provided for large Engine / Pump and Generator combinations.**

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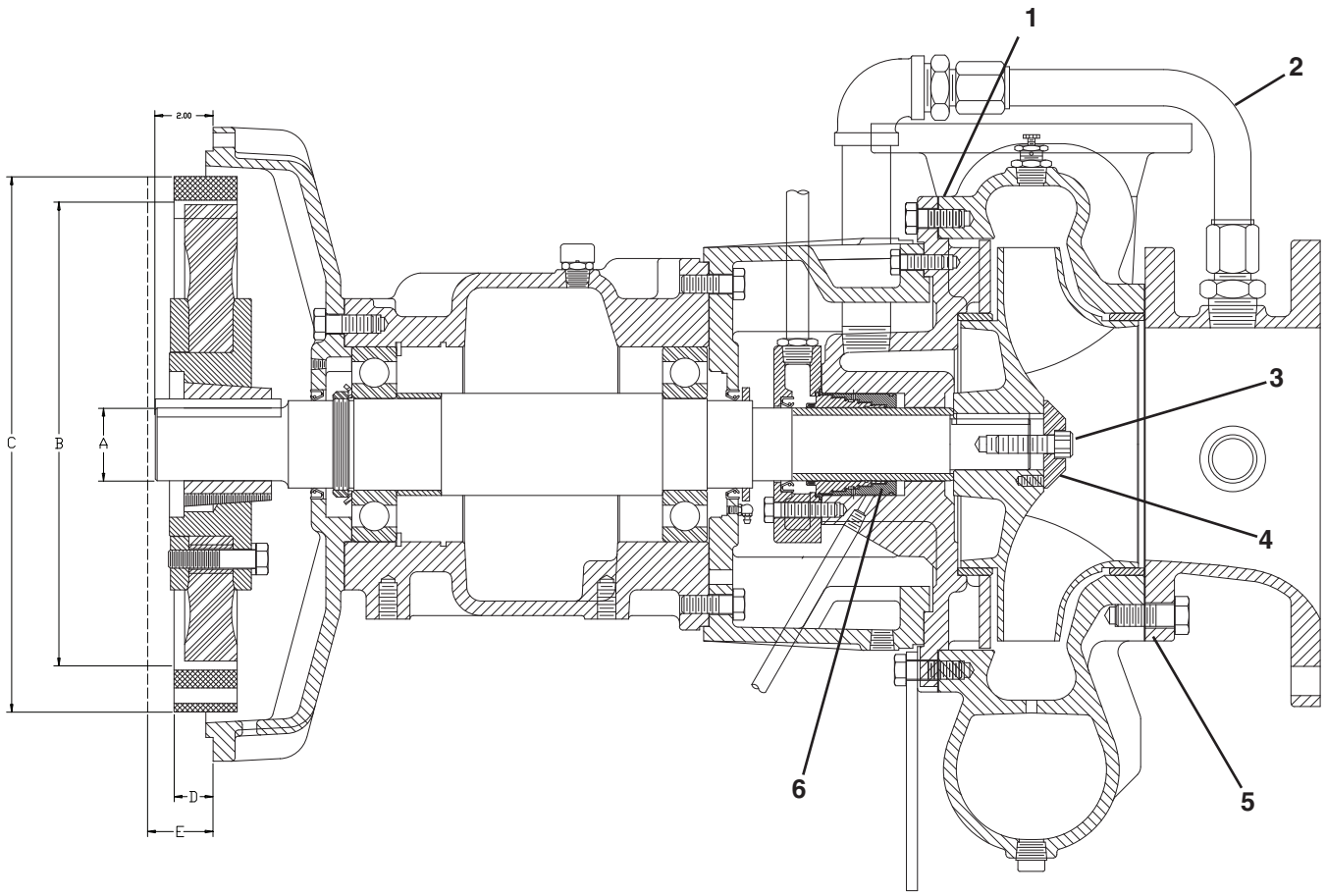
PUMPS						
4RB EM16	5RB EM16	6YB EM16	6YB EM18	6RB EM18	8H EM18	10RB EM18DB
0996542	0996543	0997294	0997213	0996544	0995306	0995504

UNTRIMMED IMPELLERS						
4RB EM16 12.75"	5RB EM16 13.50"	6YB EM16 11.00"	6YB EM18 11.00"	6RB EM18 13.50"	8H EM18 15.22"	10RB EM18DB 13.50"
0997231	0997232	0997229	0997229	0997233	0997234	0997235

SAE ENGINE MOUNTS							
SIZE	4RB EM16	5RB EM16	6YB EM16	6YB EM18	6RB EM18	8H EM18	10RB EM18DB
SAE - 1	-	-	-	-	0995307	0995307	0995307
SAE - 2	0995308	0995308	-	0995308	0995308	0995308	0995308
SAE - 3	0995309	0995309	0995309	0995309	0995309	0995309	-
SAE - 4	0995310	0995310	0995310	-	-	-	-

DRIVE DISCS							
SIZE	4RB EM16	5RB EM16	6YB EM16	6YB EM18	6RB EM18	8H EM18	10RB EM18DB
EM16 10.00"	0995394	0995394	0995394	-	-	-	-
EM16 11.50"	0995395	0995395	0995395	-	-	-	-
EM18 11.50"	-	-	-	0995396	0995396	0995396	0995396
EM18 14.00"	-	-	-	-	0995397	0995397	0995397

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ITEM	DESCRIPTION	4RB	5RB	6RB	6YB	8H	10RB
1	Volute Gasket	0995564	0992163	0992163	-	0995565	0992163
2	Balance Line	0995566	0995567	0995568	-	0995569	0995579
3	Impeller Lockscrew	0995570	0995571	0995572	-	0995573	0995580 OBSOLETED Apr 17
4	Impeller Washer	0995574	0995575	0995576	-	0995576	0995581
5	Suction Spool Gasket	-	0995577	0992413	-	0992413	-
6	HD Seal Kit	-	-	0000827 OBSOLETED	-	-	-

MOUNTING SPECIFICATIONS FOR CORNELL/STROMAGE DISC DRIVES

Valmont Part #	Disc Drive	A Drive Shaft Dia.	B Outside Dia.	C Bolt Circle	D Minimum	E Maximum
0995394	10.00"	2.00"	12.38"	11.62"	.75"	2.25"
0995395	11.50"	2.00"	13.88"	13.12"	.62"	2.50"
0995396	11.50"	2.50"	13.88"	13.12"	.62"	2.50"
0995397	14.00"	2.50"	18.38"	17.25"	1.25"	2.31"

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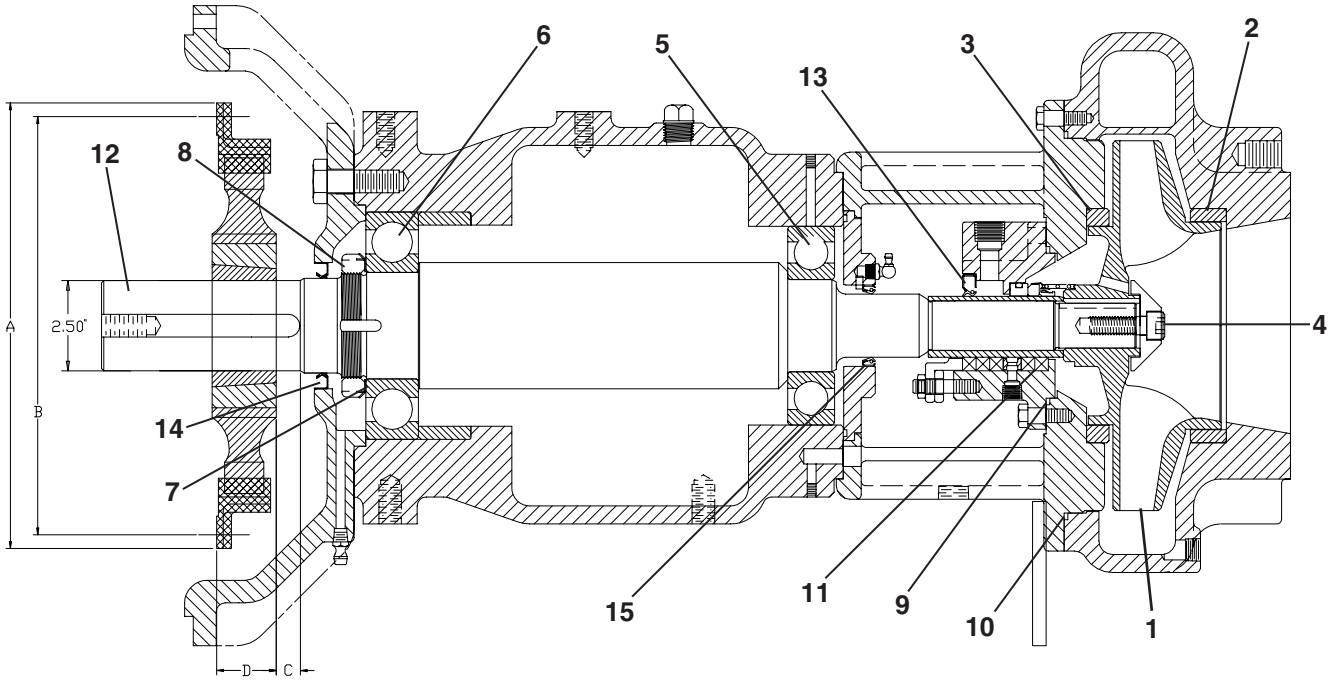
DESCRIPTION	PART #
Pump - 10 x 10 SC1010C14	0996694
Pump - 8 x 6 SC86C14	0997947
Pump - 6 x 6 SC66C14	0996919
Pump - 6 x 4 SC64C10	0996773

UNTRIMMED IMPELLERS			
SC64C10	SC66C14	SC86C14	SC1010C14
10.25"	14.00"	14.00"	14.00"
0996837	0997236	0997948	0997237

SAE ENGINE MOUNTS				
SIZE	SC64C10	SC66C14	SC86C14	SC1010C14
SAE - 1	-	-	-	0996696
SAE - 2	-	-	-	0996721
SAE - 3	0996920	0996920	0996920	-
SAE - 4	0997230	-	-	-

DRIVE DISCS				
SIZE	SC64C10	SC66C14	SC86C14	SC1010C14
10.00"	0996845 OBSOLETED Apr 17	-	-	-
11.50"	0996720	0996720	0996720	0996720
14.00"	-	-	-	0996695

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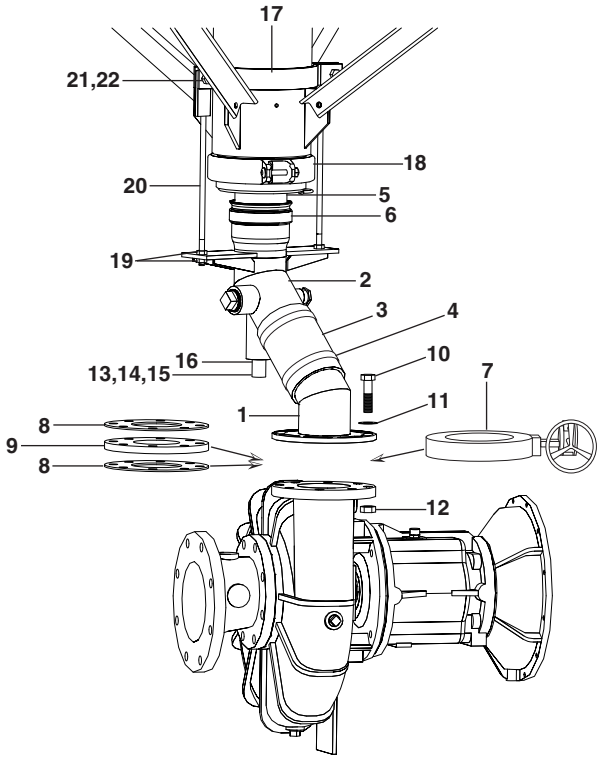


		SC64C10		SC66C14	
ITEM	**DESCRIPTION**	**PIONEER #**	**VALMONT #**	**PIONEER #**	**VALMONT #**
1	Trimmed Impeller	-	-	-	0997189 OBSOLETED Apr 17
2	Wear Ring	109081453	0996835 OBSOLETED Apr 17	109081769	0997190 OBSOLETED Apr 17
3	Wear Ring	109081454	0996836 OBSOLETED Apr 17	109081769	0997190 OBSOLETED Apr 17
4	Impeller Screw	32621050SC125	0996838 OBSOLETED Apr 17	-	-
5	Bearing	31900101	0996839 OBSOLETED Apr 17	31900101	0996839 OBSOLETED Apr 17
6	Bearing	31900103	0996840 OBSOLETED Apr 17	31900103	0996840 OBSOLETED Apr 17
7	Bearing Washer	32000102	0996841 OBSOLETED Apr 17	-	-
8	Bearing Nut	32100101	0996842 OBSOLETED Apr 17	-	-
9	O-Ring	30102243	0996843 OBSOLETED Apr 17	30102160	0997197
10	O-Ring, Volute	30102273	0996844 OBSOLETED Apr 17	30102383	0997198
11	Mechanical Seal	30400119	0996846 OBSOLETED Apr 17	30400101	0997192
12	Shaft	-	-	120141775	0997191
13	Lip Seal (Viton)	-	-	30500112	0997193
14	Lip Seal (Buna)	-	-	30500101	0997194
15	Lip Seal (Buna)	-	-	30500102	0997195 OBSOLETED Apr 17
16	Impeller Key	-	-	12211112	0997196

MOUNTING SPECIFICATIONS FOR PIONEER/ARCUSAFLEX DISC DRIVES					
Valmont Part #	Disc Drive	A Outside Dia.	B Bolt Circle	C Minimum	D Maximum
0996695	14.00"	18.38"	17.25"	.67"	2.995"
0996720	11.50"	13.88"	13.12"	.00"	2.28"
0996845 OBSOLETED Apr 17	10.00"	12.88"	11.62"	1.22"	1.65"

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This information also applies to Hose Drags w/ Booster Pumps



PRIOR To July 2015

DITCH FEED PUMPS									
		PIONEER		CORNELL					
Item	Description	SC64C10	SC66C14	4RB	5RB	6RB	6YB	8H	
1	Lower Discharge	9363355	9363362	9363354	9363357	9363360	9363362	9363572	
2	Upper Discharge	9363356	9363363	9363356	9363359	9363363	9363363	9363573	
3	Boot	9363369	9363372	9363370	9363371	9363372	9363372	9363574	
4	Boot Clamp	0270044	0991087	0270044	0995199	0991087	0991087	0994507	
5	Swivel Pipe	9363351	9363353	9363351	9363352	9363353	9363353	Stainless Steel 9361575	Xenoy 9363151
6	Seal	0221010	0996279	0221010	0221014	0996279	0996279	0221001	
7	Butterfly Valve	0995562	0992655	0995562	0995720	0992655	0992655	0992647	

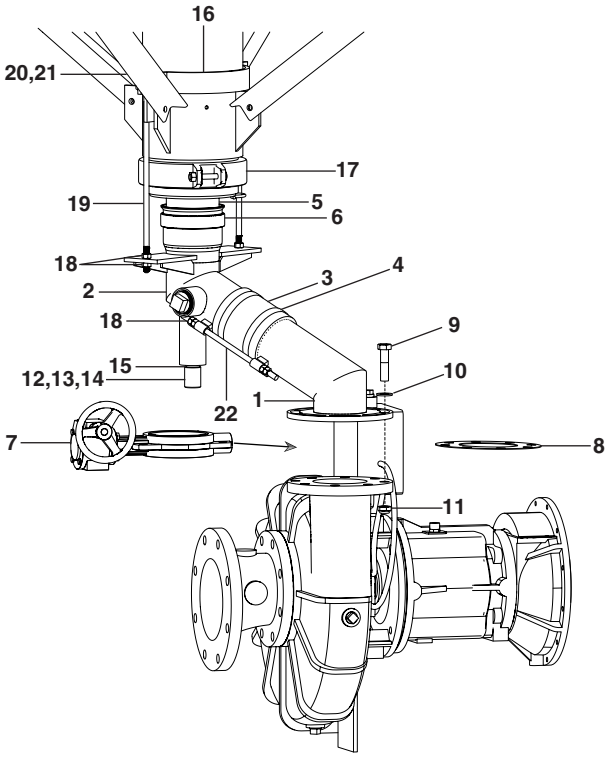
HOSE DRAG BOOSTER PUMPS								
		PIONEER		CORNELL				
Item	Description	SC64C10	SC66C14	4RB	5RB	6RB	6YB	8H
1	Lower Discharge	9363355	9363361	9363355	9363358	9363360	9363361	-
2	Upper Discharge	9363356	9363363	9363356	9363359	9363363	9363363	-
3	Boot	9363369	9363372	9363370	9363371	9363372	9363372	-
4	Boot Clamp	0270044	0991087	0270044	0995199	0991087	0991087	-
5	Swivel Pipe	9363351	9363353	9363351	9363352	9363353	9363353	-
6	Seal	0221010	0996279	0221010	0221014	0996279	0996279	-
8	Gasket	0996637	0996639	0996637	0996638	0996639	0996639	-
9	Flange Spacer	9363368	-	-	-	-	-	-

ITEM	DESCRIPTION	PART #
10	5/8" x 3" Cap Screw (4" Pumps)	0161010
	5/8" x 4-1/2" Cap Screw (4" Pumps)	0161121
	3/4" x 3" Cap Screw (5" & 6" Pumps)	0161007
	3/4" x 5" Cap Screw (5" & 6" Pumps)	0161144
11	5/8" Flat Washer (4" Pumps)	0142011
	3/4" Flat Washer (5" & 6" Pumps)	0142027
12	5/8" Lock Nut (4" Pumps)	0133010
	3/4" Lock Nut (5" & 6" Pumps)	0133011
13	V-Packing	0254004

ITEM	DESCRIPTION	PART #
14	1" Coupling	0245061
15	Spacer	1781640
16	J-Tube, Straight	9363452
17	10" Half Clamp	1702524
18	Gruvlok Clamp	0245073
19	1/2" Hex Nut	0131015
20	Support Rod	9363350
21	1/2" x 2-1/2" Cap Screw	0161023
22	1/2" Lock Nut	0133005

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This information also applies to Hose Drags w/ Booster Pumps



EFFECTIVE July 2015

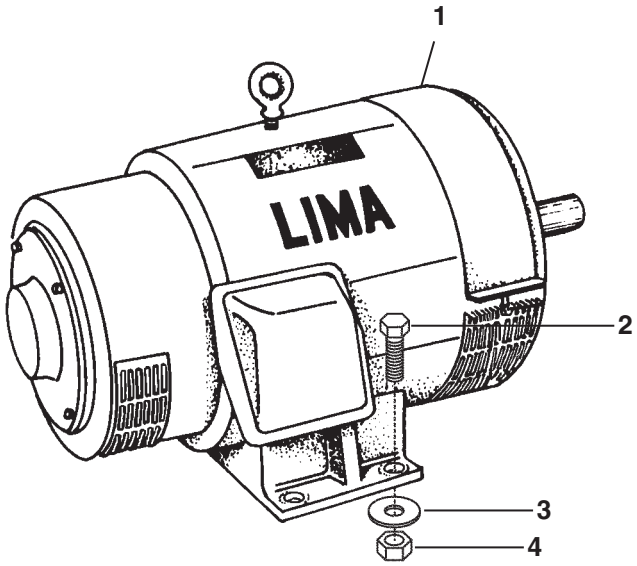
DITCH FEED PUMPS									
		PIONEER		CORNELL					
Item	Description	SC64C10	SC66C14	4RB	JD4045H 5RB	JD6068H 5RB	6RB	8H	
1	Lower Discharge	N/A	N/A	9364588	9364591	9364592	9364596	9364599	
2	Upper Discharge	N/A	N/A	9364590	9364595	9364595	9364598	9364600	
3	Boot	N/A	N/A	9363370	9363371	9364602	9363372	9363574	
4	Boot Clamp	N/A	N/A	0270044	0995199	0995199	0991087	0994507	
5	Swivel Pipe	N/A	N/A	9363351	9363352	9363352	9363353	Stainless Steel 9361575	Xenoy 9363151
6	Seal	N/A	N/A	0221010	0221014	0221014	0996279	0221001	
7	Butterfly Valve	N/A	N/A	0995562	0995720	0995720	0992655	0992647	

HOSE DRAG BOOSTER PUMPS								
		PIONEER		CORNELL				
Item	Description	SC64C10	SC66C14	4RB	JD4045H 5RB	JD6068H 5RB	6RB	8H
1	Lower Discharge	N/A	N/A	9364589	9364593	9364594	9364597	-
2	Upper Discharge	N/A	N/A	9364590	9364595	9364595	9364598	-
3	Boot	N/A	N/A	9363370	9363371	9363372	9363372	-
4	Boot Clamp	N/A	N/A	0270044	0995199	0995199	0991087	-
5	Swivel Pipe	N/A	N/A	9363351	9363352	9363352	9363353	-
6	Seal	N/A	N/A	0221010	0221014	0221014	0996279	-
8	Gasket	N/A	N/A	0996637	0996638	0996638	0996639	-

ITEM	DESCRIPTION	PART #
9	5/8" x 3" Cap Screw (4" Pumps)	0161010
	5/8" x 4-1/2" Cap Screw (4" Pumps)	0161121
	3/4" x 3" Cap Screw (5" & 6" Pumps)	0161007
	3/4" x 5" Cap Screw (5" & 6" Pumps)	0161144
10	5/8" Flat Washer (4" Pumps)	0142011
	3/4" Flat Washer (5" & 6" Pumps)	0142027
11	5/8" Lock Nut (4" Pumps)	0133010
	3/4" Lock Nut (5" & 6" Pumps)	0133011
12	V-Packing	0254004
13	1" Coupling	0245061

ITEM	DESCRIPTION	PART #
14	Spacer	1781640
15	J-Tube, Straight	9363452
16	10" Half Clamp	1702524
17	Gruvlok Clamp	0245073
18	1/2" Hex Nut	0131015
19	Support Rod	9363350
20	1/2" x 2-1/2" Cap Screw	0161023
21	1/2" Lock Nut	0133005
22	1/2" x 12-1/2" Rod - All-Thread	9364573
	1/2" x 24" Rod - All Thread	9364945

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ITEM	DESCRIPTION	PART #
1	7.5 KW Lima Generator - wt. 245 pounds	0314190
	10 KW Lima Generator - wt. 266 pounds	0314192
	12 KW Lima Generator - wt. 294 pounds	0314194
	15 KW Lima Generator - wt. 309 pounds	0314703
	20 KW Lima Geneartor - wt. 577 pounds - Low Profile	0980407
	20 KW Lima Generator - wt. 577 pounds (DISCONTINUED Jan 18)	0314881
	25 KW Lima Generator - wt. 609 pounds - Low Profile	0980408
	25 KW Lima Generator - wt. 609 pounds (DISCONTINUED Jan 18)	0314886
	30 KW Lima Generator - wt. 634 pounds - Low Profile	0980409
	30 KW Lima Generator - wt. 634 pounds (DISCONTINUED Jan 18)	0314887
2	5/8" x 1-3/4" Cap Screw	0161088
3	5/8" Flat Washer	0142011
4	5/8" Lock Nut	0133010

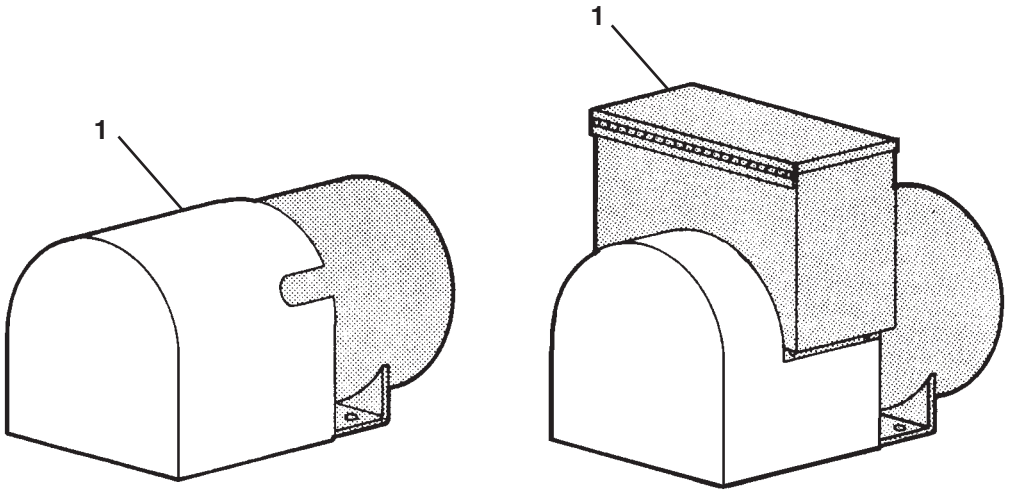
LIMA GENERATOR REPAIR PARTS

DESCRIPTION	KW	FRAME	PART #	
Drive End Bearing	7.5 thru 15	250-280	0191061	
Opposite End Bearing*	10 thru 15	250-280	0191062	
Opposite End Bearing**	10 thru 15	250-280	0191063	OBSOLETED Dec 2016
Drive End Bearing	20 thru 30	360	0191064	OBSOLETED Dec 2016
Opposite End Bearing	20 thru 30	360	0191065	
Rectifier (Diode) 2 Req'd.	7.5	250	03E1486	
Rectifier Assm. (Diode)	10 thru 15	280	03E1487	
Rectifier Assm. (Diode)	20 thru 30	360	03E1488	

* **NOTE** Repair item for units sold ***before*** mid 1987 - Generators S/N begins with 3156.

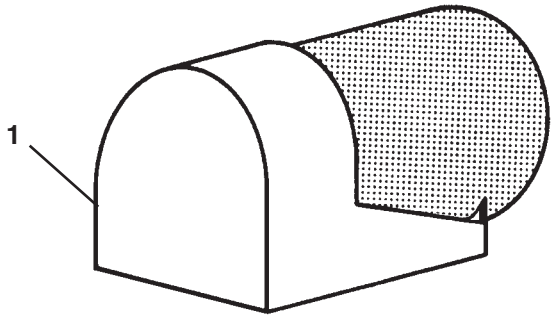
** **NOTE** Repair item for units sold ***after*** mid 1987 - Generators S/N begins with 3264.

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TYPE "A"

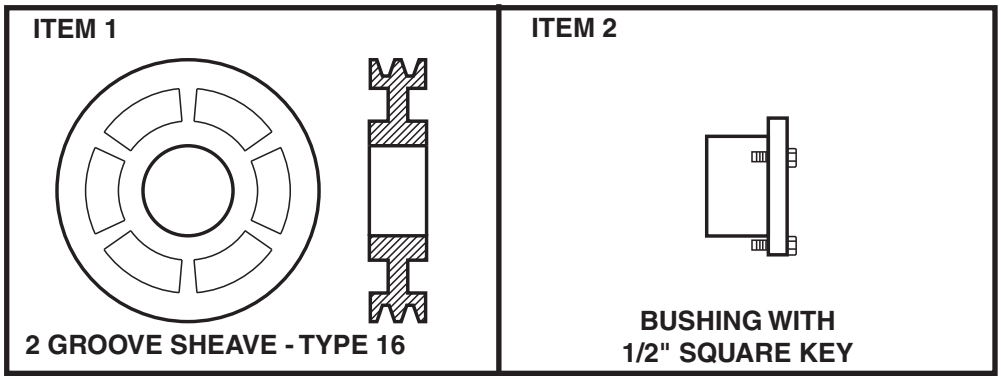
TYPE "B"



TYPE "C"

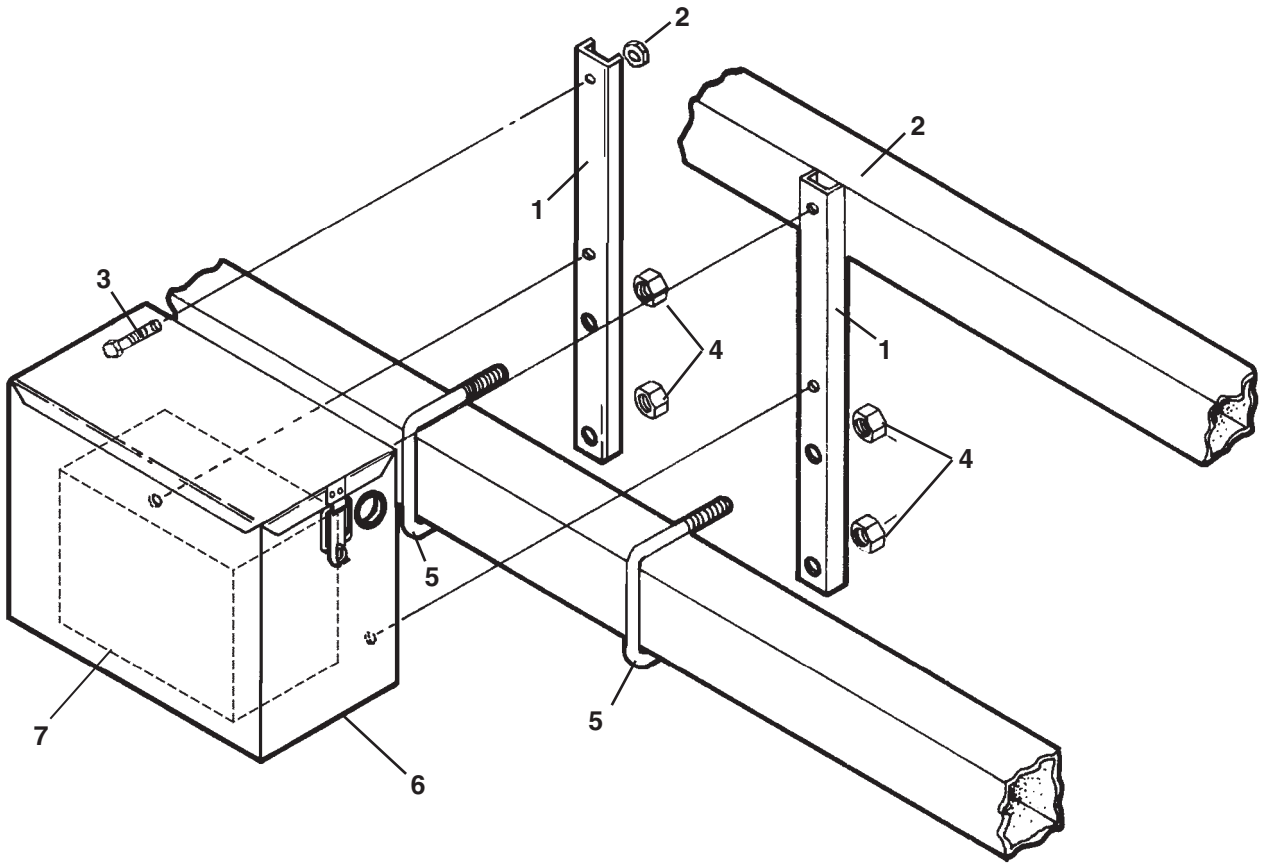
ITEM	DESCRIPTION	PART #
1	5.0 KW Lima Generator Shield - Type C	0993652
	7.5 KW Lima Generator Shield - Type C	0993652
	10 KW Lima Generator Shield - Type A	0992712
	12 KW Lima Generator Shield - Type A	0992712
	15 KW Lima Generator Shield - Type A	0992712
	20 KW Lima Generator Shield - Type B	1731051
	25 KW Lima Generator Shield - Type B	1731051
	30 KW Lima Generator Shield - Type B	1731051

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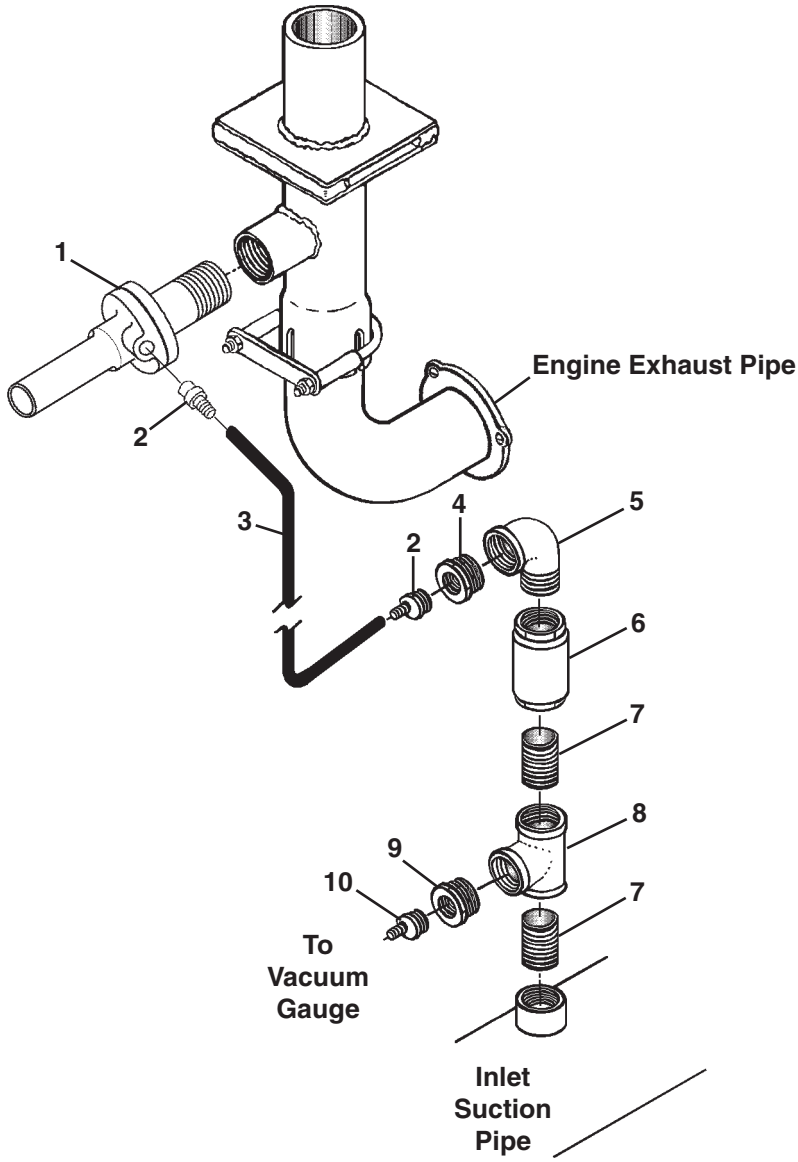
ITEM	DESCRIPTION	OUTSIDE DIA	PITCH DIA.	TYPE	PART #		
1	Browning 4 Groove Sheave	6.35"	6.0"	13	0993358		OBSOLETE Feb 17
	Browning 4 Groove Sheave	6.55"	6.2"	13	0993359		OBSOLETE Feb 17
	Browning 4 Groove Sheave	6.75"	6.4"	13	0993360		OBSOLETE Feb 17
	Browning 4 Groove Sheave	6.95"	6.6"	13	0993361	"5V"	OBSOLETE Feb 17
	Browning 4 Groove Sheave	7.15"	6.8"	13	0993362		OBSOLETE Feb 17
	Browning 4 Groove Sheave	7.35"	7.0"	13	0993363		OBSOLETE Feb 17
	Browning 4 Groove Sheave	7.75"	7.4"	13	0993364		OBSOLETE Feb 17
2	Bushing 1 7/8" Bore w/ 1/2" Key for 7.5 KW thru 15 KW Generators				0192055		
	Bushing 2 1/8" Bore w/ 1/2" Key for 20 KW thru 30 KW Generators				0192056		
3	V-Belt 5VX500 50" (NOT SHOWN)				0997330		
	V-Belt 5VX600 60" (NOT SHOWN)				0997331		

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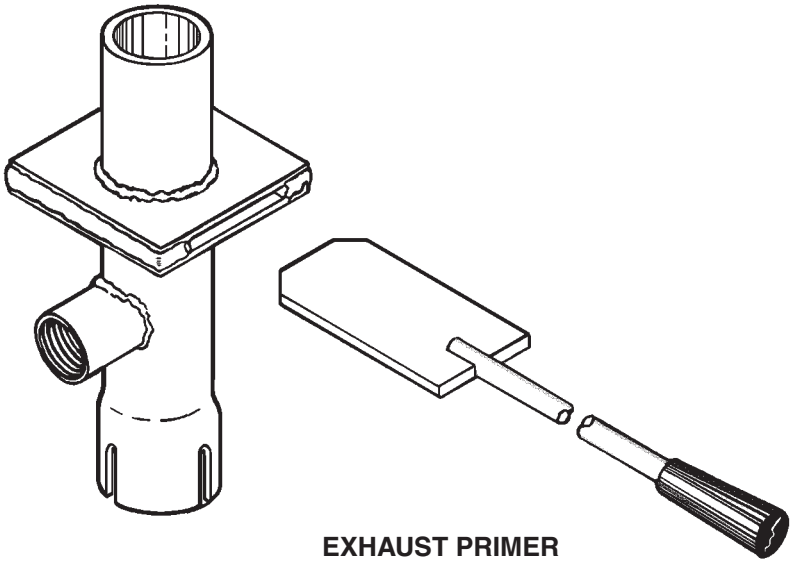
ITEM	DESCRIPTION	PART #
1	Battery Box Mount	1730216
2	1/2" Lock Nut	0133005
3	1/2" x 1-1/4" Cap Screw	0161027
4	3/4" Hex Nut	0131008
5	U-Bolt 3/4" x 7"	0176048
6	Battery Box Assembly	1730127
7	Battery Group 31M - 12V	0980280
	Battery (Group 24 - 625 CCA) - OBSOLETE Jun 2017	0993420
	Battery (Group 31P - 750 CCA) - OBSOLETE Jun 2017	0993421

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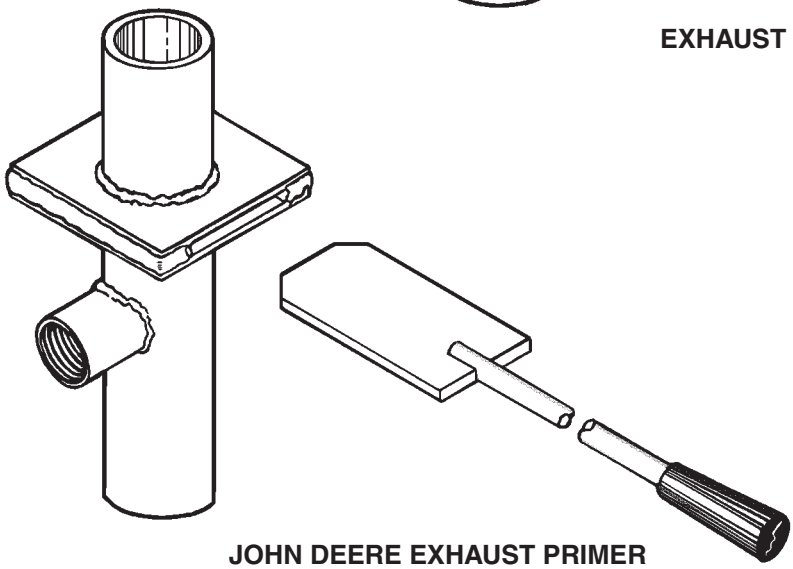


ITEM	DESCRIPTION	PART #
1	Exhaust Primer	0992240
2	3/8" x 3/8" Hose Insert	0270017
3	3/8" I.D. Hose - 14' Long	1731721
4	1" x 3/8" Reducer Bushing	0244019
5	1" x 90° Street Elbow	0241017
6	1" Brass Check Valve	0232404
7	1" x 1-1/2" Close Nipple	0211012
8	1" Tee	0242005
9	1" x 1/4" Reducer Bushing	0244007
10	1/4" x 1/4" Hose Insert	0232366

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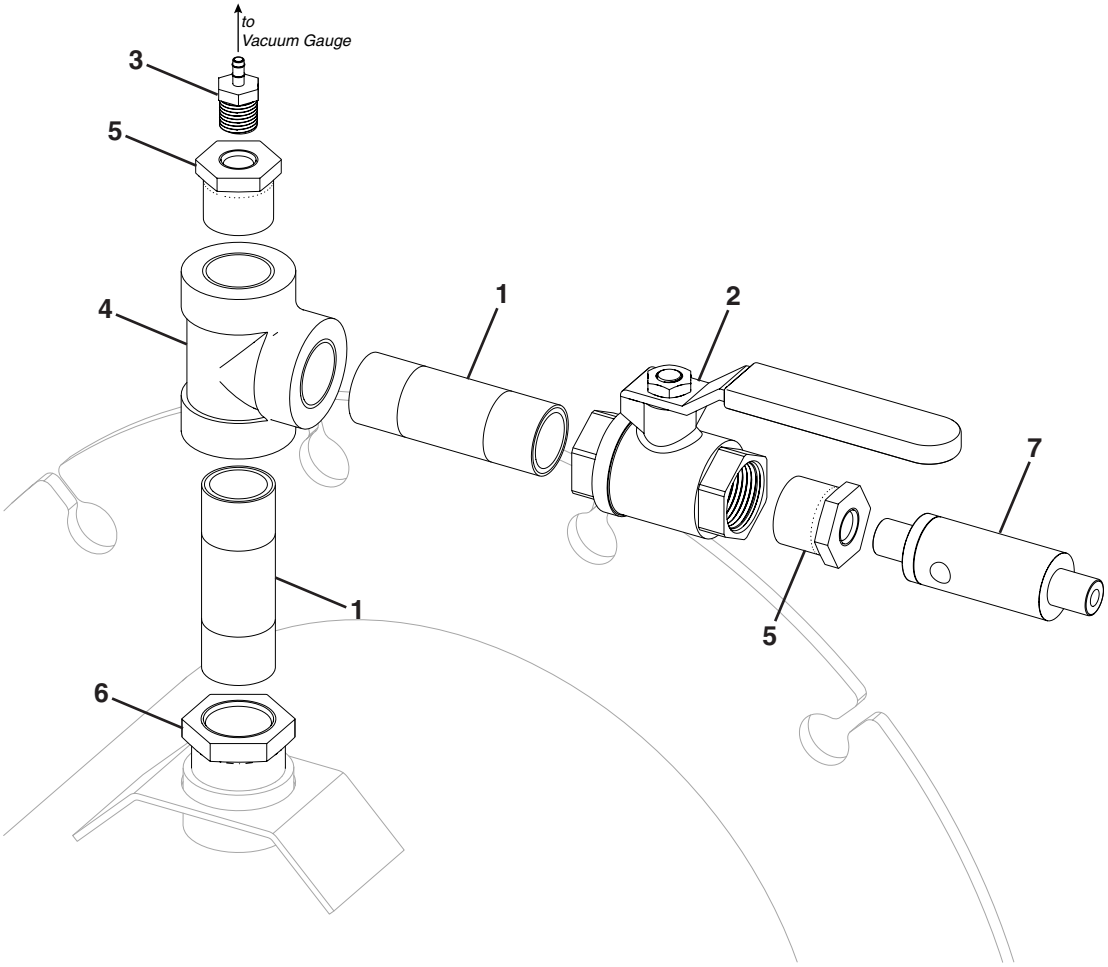
EXHAUST PRIMER



JOHN DEERE EXHAUST PRIMER

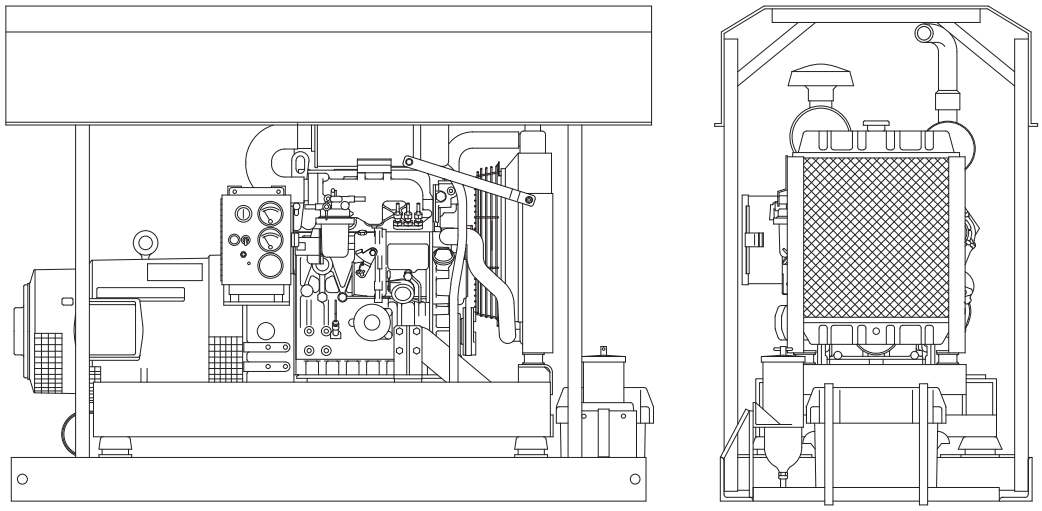
DESCRIPTION	SIZE	PART #
John Deere Exhaust Primer	2.37" I.D. x 2.50" O.D.	0994647 OBSOLETED Mar 17
	2.87" I.D. x 2.50" O.D.	0994648 OBSOLETED Mar 17
	3.87" I.D. x 4.00" O.D.	0994649
Exhaust Primer	2.50" I.D. x 2.50" O.D.	0995404
	2.25" I.D. x 2.25" O.D.	0995406
	3.00" I.D. x 3.00" O.D.	0995407
	4.00" I.D. x 4.00" O.D.	0995405
	5.00" I.D. x 5.00" O.D.	0995593

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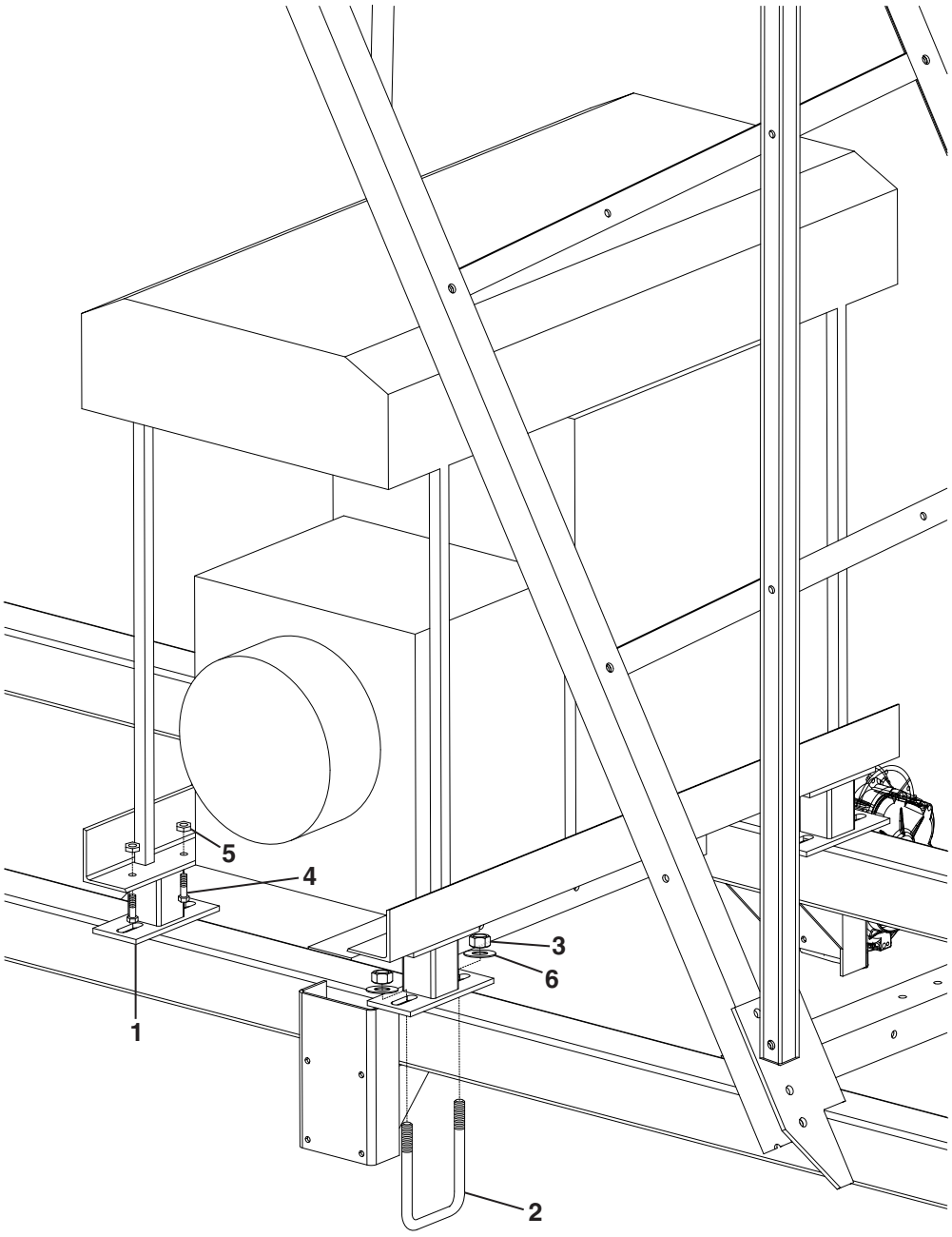
ITEM	DESCRIPTION	PART #
1	3/4" x 3" Nipple - Galvanized	0211055
2	3/4" Ball Valve - Brass Full Throw	0232045
3	1/4" NPT x 1/4" Tube Connector - Brass	0232366
4	3/4" x 3/4" x 3/4" Tee Fitting - Galvanized	0242002
5	3/4" x 1/4" Reducer Fitting - Galvanized	0244025
6	1" x 3/4" Reducer Fitting - Galvanized	0244038
7	Vacuum Pump - Stainless Steel	9364787
	30" HG VAC/0-100 psi Gauge (not shown)	0231142*
	Compressed Air Vacuum Primer Kit	KA02704
	*Compressed Air Vacuum Primer Kit w/Gauge	KA02705

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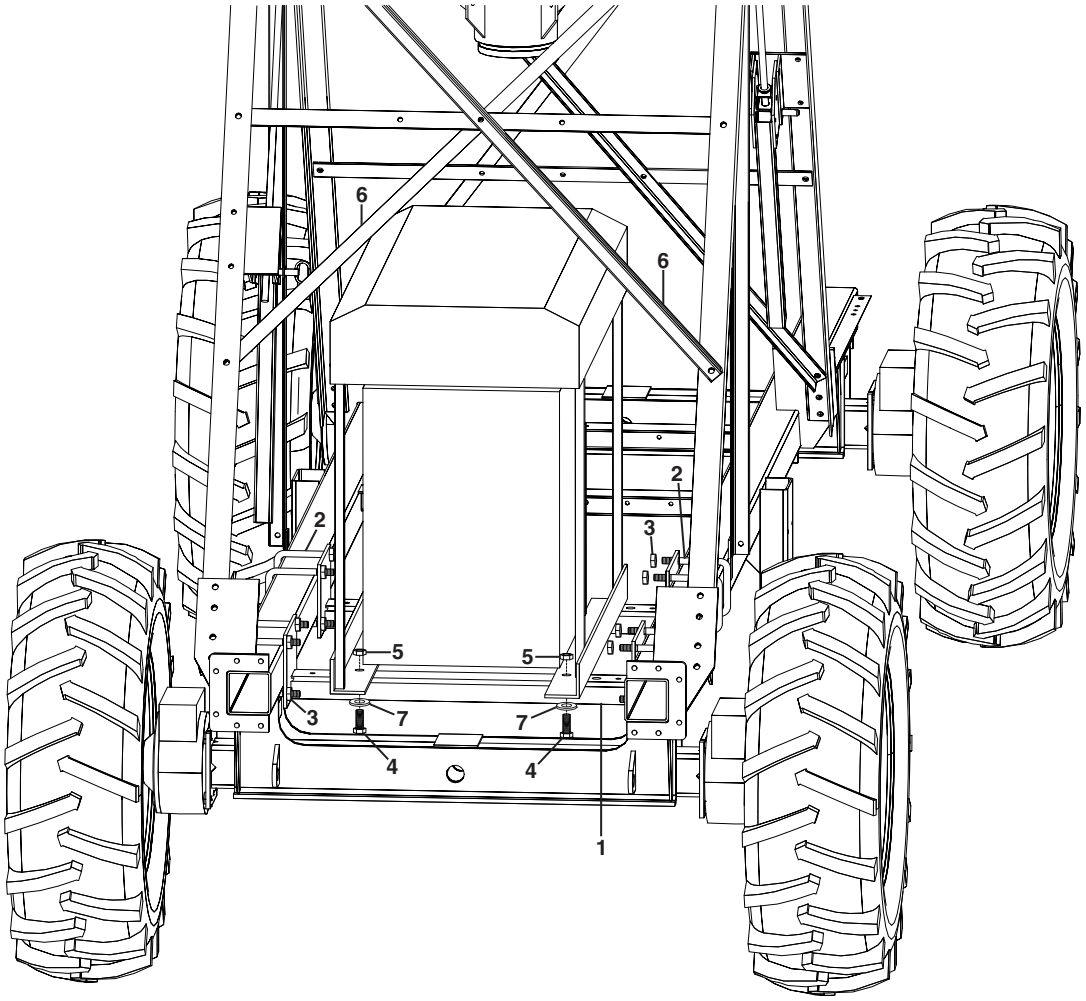
DESCRIPTION	FRAME SIZE	PART #
7.5 KW - Isuzu	Small	0996208
10 KW - Isuzu	Small	0996209
12 KW - Isuzu	Small	0996210
15 KW - Isuzu	Large	0996211
18 KW - Isuzu	Large	0996235
20 KW - John Deere	Large	0996805
25 KW - John Deere	Large	0996806
30 KW - John Deere	Large	0996807
5 KW - Yanmar	Large	0997809
7.5 KW - Yanmar	Large	0997810
10 KW - Yanmar	Large	0997811
12 KW - Yanmar	Large	0997812
15 KW - Yanmar	Large	0997813
20 KW - Yanmar	Large	0997814
5 KW - Perkins	Large	0997365
7.5 KW - Perkins	Large	0997366
10 KW - Perkins	Large	0997367
12 KW - Perkins	Large	0997368
15 KW - Perkins	Large	0997369
19 KW - Perkins	Large	0997370
5 KW - Kubota	Small	0980203
7.5 KW - Kubota	Small	0980204
10 KW - Kubota	Small	0980205
12 KW - Kubota	Small	0980206
15 KW - Kubota	Small	0980207
20 KW - Kubota	Large	0980208
30 KW - Kubota	Large	0980209

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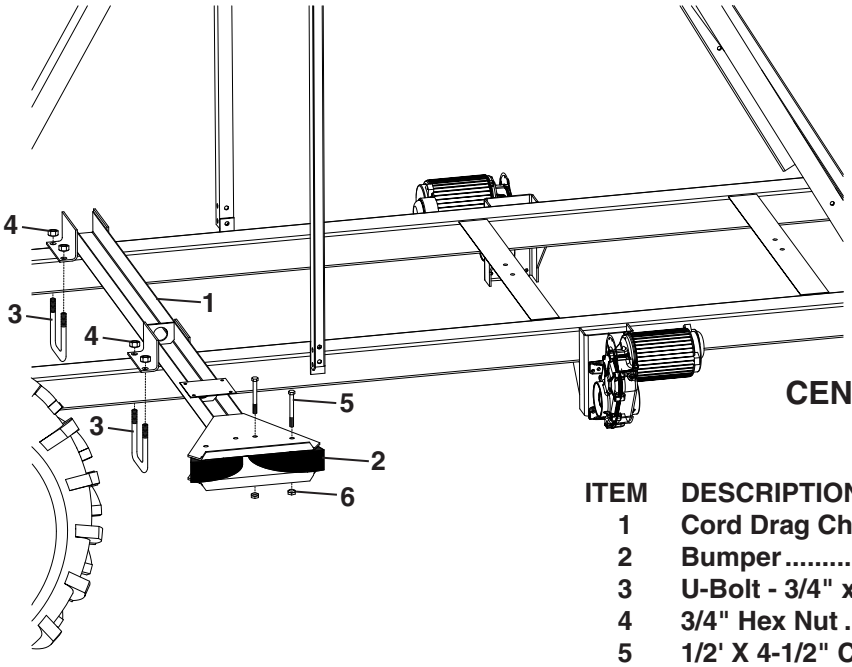
ITEM	DESCRIPTION	PART #
1	Generator Mount	9362588
2	U-Bolt - 3/4" x 7"	0176048
3	3/4" Hex Nut	0131008
4	1/2" x 1-1/4" Cap Screw	0161027
5	1/2" Lock Nut	0133005
6	3/4" Flat Washer	0142027

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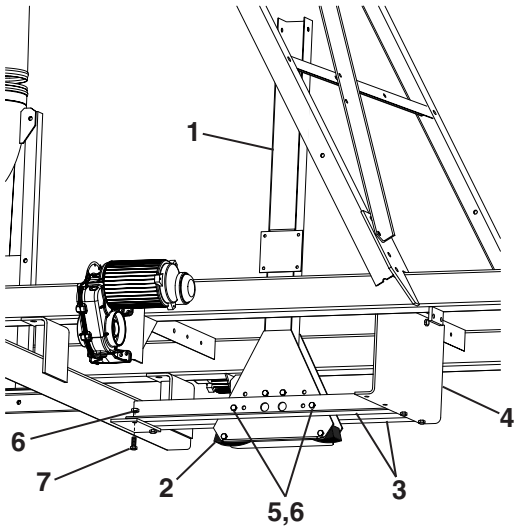
ITEM	DESCRIPTION	PART #
1	Engine Mount	9362295
	Engine Mount - Large Frame	9363688
2	3/4" x 7" U-Bolt	0176048
3	3/4" Hex Nut	0131008
4	1/2" 1-1/4" Cap Screw	0161027
5	1/2" Lock Nut	0133005
6	Cart Brace - Short	9363210
7	1/2" Flat Washer	0142025

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CENTER PULL CART

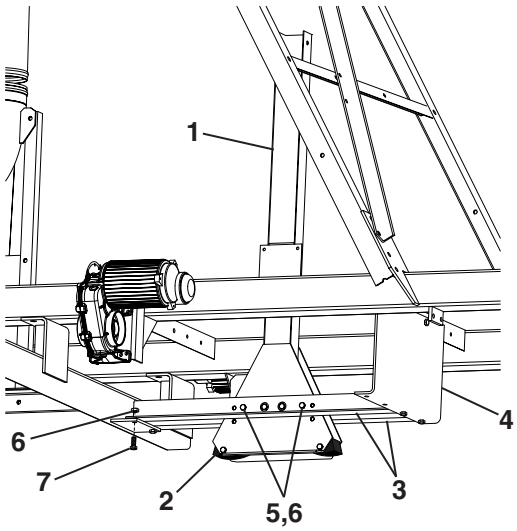
ITEM	DESCRIPTION	PART #
1	Cord Drag Channel	9362538
2	Bumper	1732258
3	U-Bolt - 3/4" x 7"	0176048
4	3/4" Hex Nut	0131008
5	1/2' X 4-1/2" Cap Screw	0161110
6	1/2" Lock Nut	0133005



SHORT CART

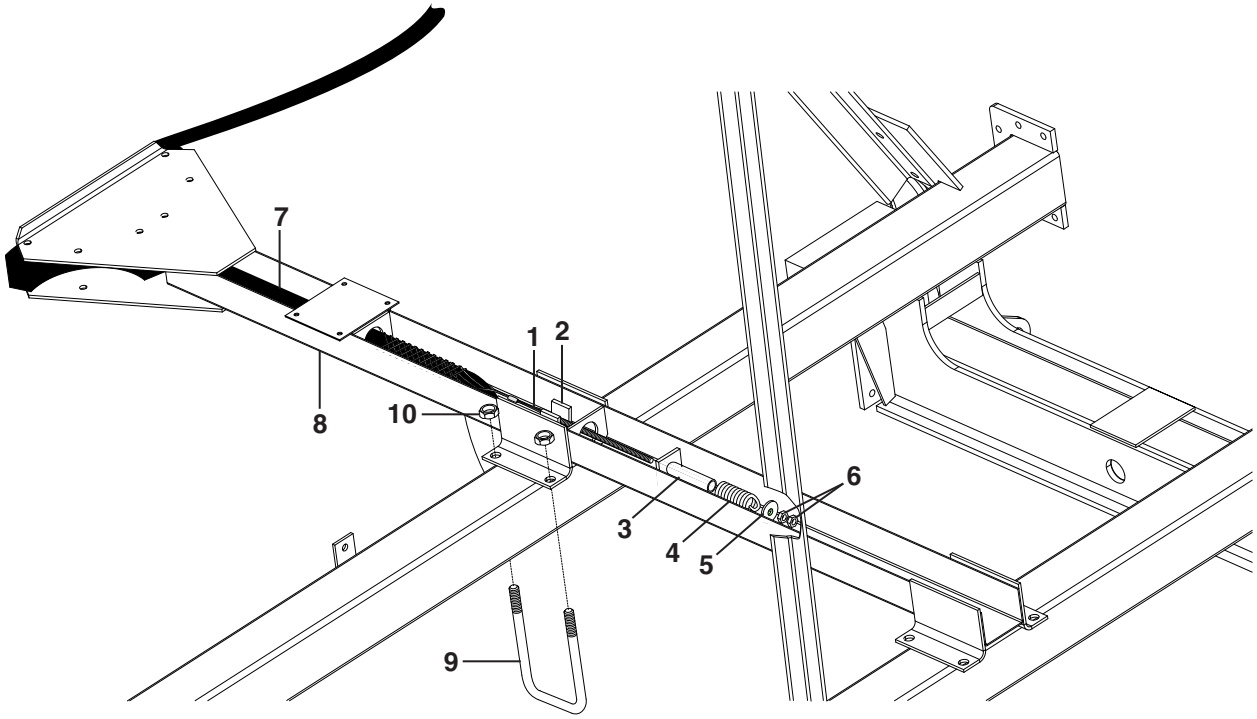
ITEM	DESCRIPTION	PART #
1	Cord Drag Channel	9330212
2	Bumper	1732258
3	Cord Mount Angle	9363054
4	Cord Mount Bracket	9363055
5	1/2' X 5" Cap Screw	0161111
6	1/2" Lock Nut	0133005
7	1/2" x 1-1/4" Cap Screw	0161027

SIDE PULL CART



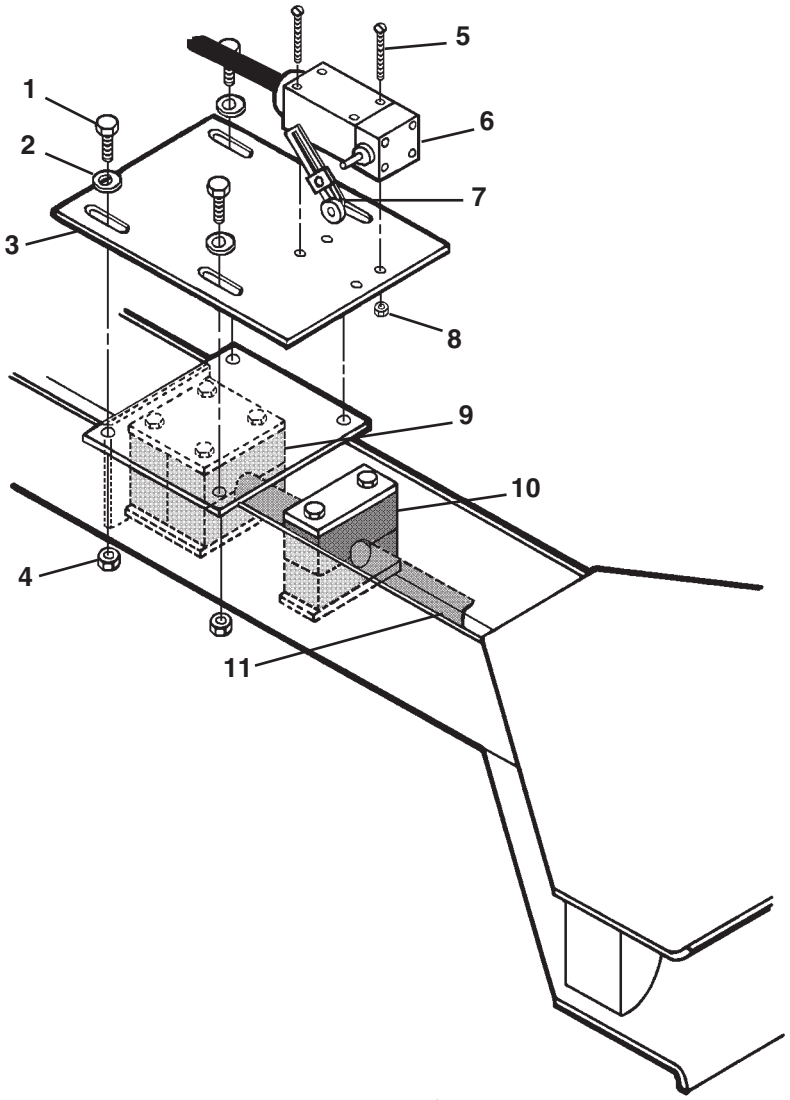
LONG CART

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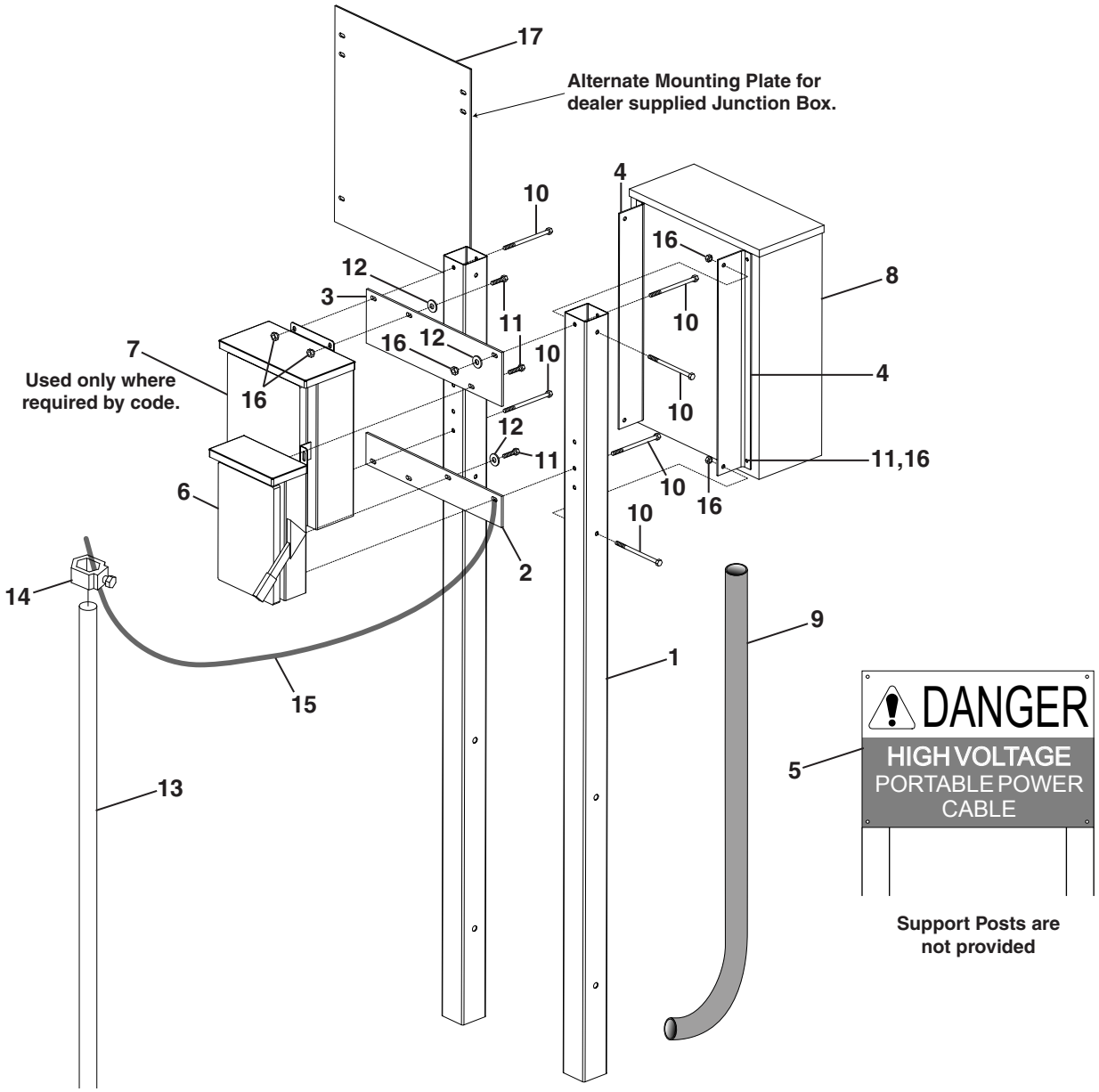
ITEM	DESCRIPTION	PART #
1	Cable Support Grip	0315504
2	Spring Adjuster	1732272
3	Spring Guide	1732275
4	Roll Brake Spring	1900139
5	Spring Keeper	1732260
6	3/8" Hex Nut	0131018
7	Cord & Plug	1811856
8	Cord Drag Channel	9362538
9	U-Bolt - 3/4" x 7"	0176048
10	3/4" Hex Nut	0131008

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ITEM	DESCRIPTION	PART #
1	5/16" x 1" Cap Screw	0161052
2	5/16" Flat Washer	0142017
3	Switch Mount	1732262
4	5/16" Lock Nut	0133007
5	#10 x 2-1/2" Round Head Machine Screw	0164083
6	Limit Switch Assembly	1811451
7	Adjustable Switch Arm	0315802
8	#10 Hex Nut	0131055
9	Large Cord Block	0315800
10	Small Cord Block	0315801
11	Cord & Plug	1811856

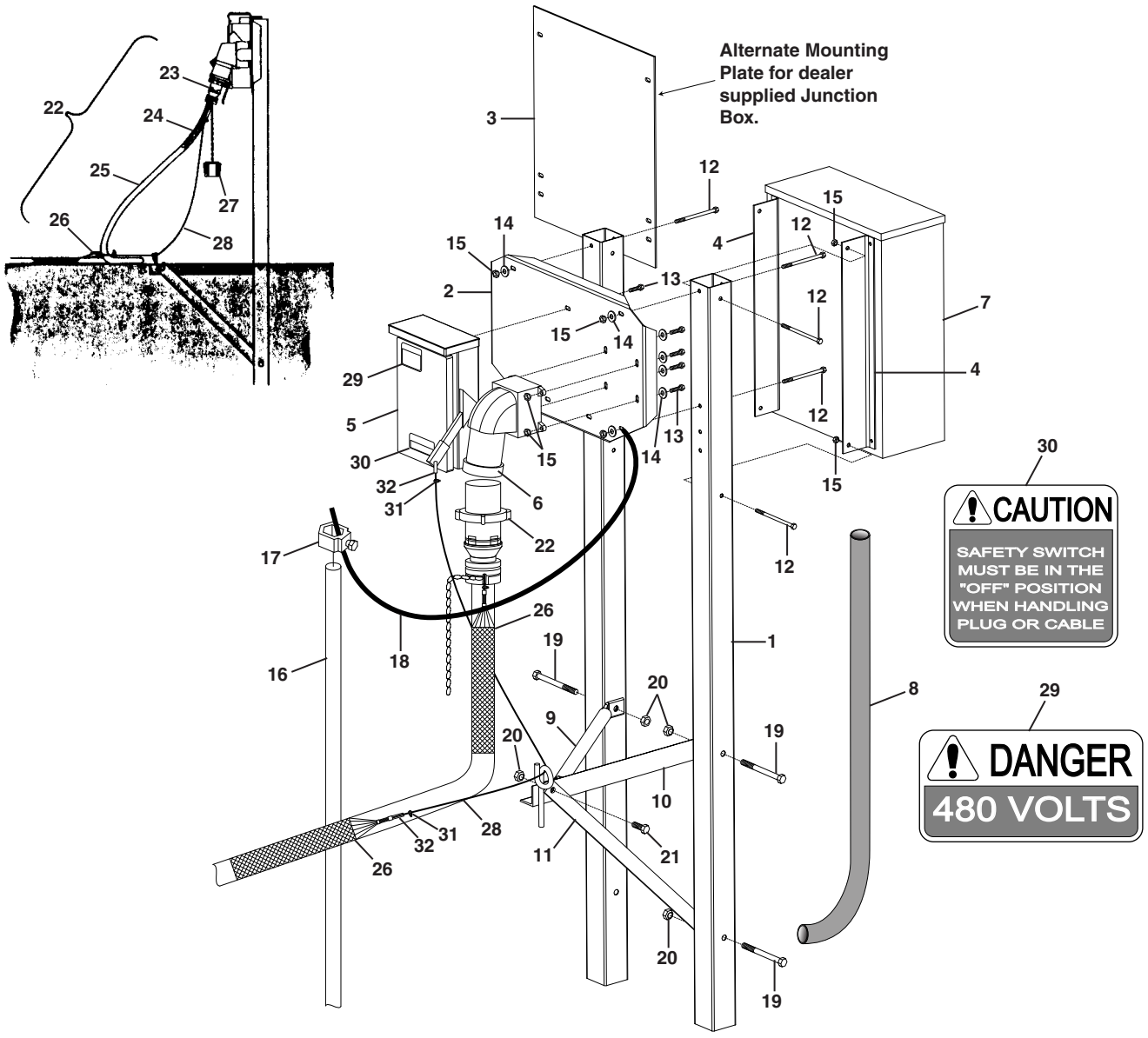
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ITEM	DESCRIPTION	PART #
1	Support Post	1732283
2	Lower Mount Strap	1732297
3	Upper Mount Strap	1732298
4	Junction Box Bracket	1732885
5	Warning Sign	1732291
6	Disconnect Box	0315762
7	GFI Junction Box - 30 Amp	1811857
8	Junction Box - 2/0 AWG	1811890
	Junction Box - 500 MCM	1811889
9	Conduit - 2.00" - 2/0 AWG	1811893
	Conduit - 3.00" - 500 MCM	1811891

ITEM	DESCRIPTION	PART #
10	5/16" x 4" Cap Screw	0161181
11	5/16" x 1" Cap Screw	0161052
12	5/16" Flat Washer	0142017
13	Ground Rod	0314910
14	Ground Clamp	0314911
15	Ground Wire	1701950
16	5/16" Lock Nut	0133007
17	Universal Mount Plate	9362629

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ITEM	DESCRIPTION	PART #
1	Support Post	1732283
2	Mount Plate	1732284
3	Universal Mount Plate	9362629
4	Junction Box Bracket	1732885
5	Disconnect Box	0315762
6	Receptacle- 30 Amp	0315759
7	Junction Box - 2/0 Awg	1811890
	Junction Box - 500 MCM	1811889
8	Conduit - 2" (2/0 Awg)	1811893
	Conduit - 3" (500 MCM)	1811891
9	Horizontal Brace	1732285
10	Cable Anchor	1732290
11	Vertical Brace	1732287
12	5/16" x 4" Cap Screw	0161181
13	5/16" x 1" Cap Screw	0161052
14	5/16" Flat Washer	0142017
15	5/16" Lock Nut	0133007

ITEM	DESCRIPTION	PART #
16	Ground Rod	0314910
17	Ground Clamp	0314911
18	Ground Wire	1701950
19	1/2" x 4" Cap Screw	0161020
20	1/2" Lock Nut	0133005
21	1/2" x 1" Cap Screw	0161028
22	30 Amp Plug & Cord	1811856
23	Plug - 30 Amp	0315757
24	Double Eye Cord Grip	0315817
25	Power Cable - 450'	0315816
26	Single Eye Cord Grip	0315504
27	Cup Cap	0315780
28	Cord Anchor Cable	1732259
29	Decal - Danger	0992749
30	Decal - Safety Switch	0992748
31	3/16" Cable Clamp	0202016
32	1/8" Cable Thimble	0992367

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CART SPANS
Model 8000

Rainger Linear - Effective 3/17

Description	Rev. #	Pg. #
6-5/8" Pipe - 30" & 108" Coupler Spacing		
Cart Span Truss Package Locations	03-17	7-4
Cart Span Truss Packages	03-17	7-5
Pipe/Truss Rod Locations	03-17	7-6
Pipes/Truss Rods	03-17	7-7
Assembly Details	03-17	7-8
8-5/8" Pipe - 30" & 108" Coupler Spacing		
Cart Span Truss Package Locations	03-17	7-10
Cart Span Truss Packages	03-17	7-11
Pipe/Truss Rod Locations	03-17	7-12
Pipes/Truss Rods	01-18	7-13
Assembly Details	03-17	7-14
10" Pipe - 30" Coupler Spacing		
Truss Package Locations	03-17	7-16
Truss Angle Locations	03-17	7-17
Pipe/Truss Rod Locations	03-17	7-18
Pipes/Truss Rods	03-17	7-19
Assembly Details	03-17	7-20
6-5/8" Export Pipe - 90" Coupler Spacing		
Cart Span Truss Package Locations	03-17	7-22
Cart Span Truss Angle Packages	03-17	7-23
Pipe/Truss Rod Locations	03-17	7-24
Pipes/Truss Rods	03-17	7-25
Assembly Details	03-17	7-26
8-5/8" Export Pipe - 90" Coupler Spacing		
Cart SpanTruss Package Locations	03-17	7-28
Cart Span Truss Angle Packages	03-17	7-29
Pipe/Truss Rod Locations	03-17	7-30
Pipes/Truss Rods	03-17	7-31
Assembly Details	03-17	7-32
Pipeline Accessories		
Pipe Drain	03-17	7-34
Flanges & Gaskets	03-17	7-35
Transition Pipes	03-17	7-36
Zero Length Transitions	03-17	7-37
Flex Hose & Hitch Components	08-18	7-38

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MC80CS0066
08-18

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CART SPANS
6-5/8" PIPE
30" & 108" COUPLER SPACING



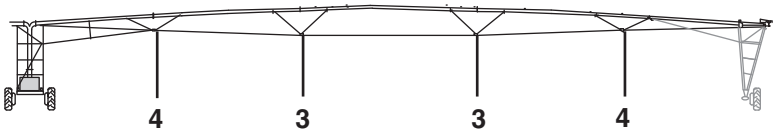
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MODEL 8000

Truss Angle Span Pack (KA09117)

115' Span

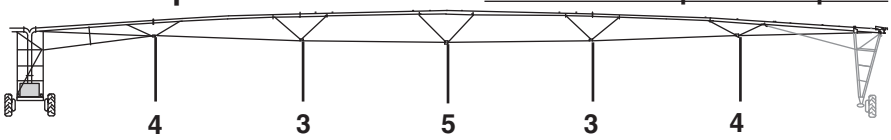
No Truss Rod Spacers Required



Truss Angle Span Pack (KA09047)

135' & 140' Span

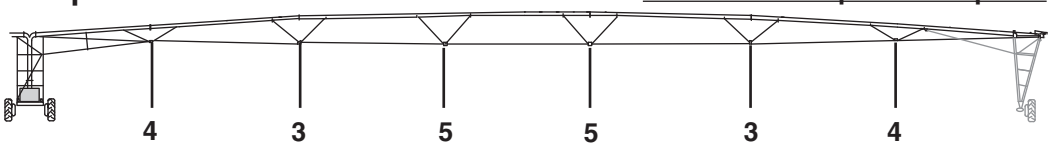
No Truss Rod Spacers Required



Truss Angle Span Pack (KA09050)

160' Span

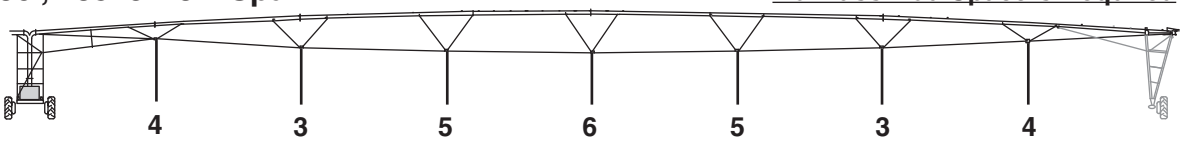
No Truss Rod Spacers Required



Truss Angle Span Pack (KA09025)

180', 185' & 187' Span

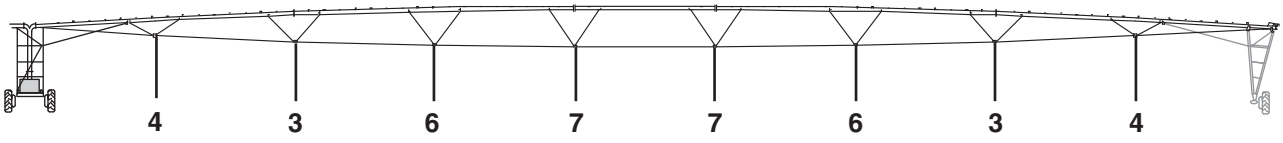
No Truss Rod Spacers Required



Truss Angle Span Pack (KA09026)

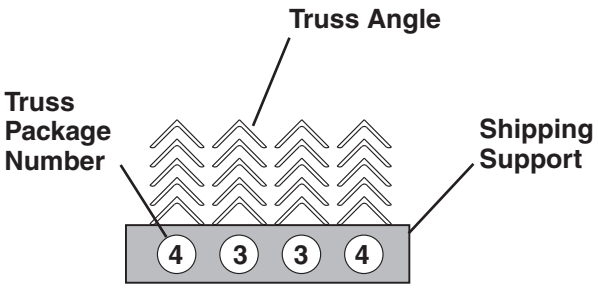
205' Span

No Truss Rod Spacers Required

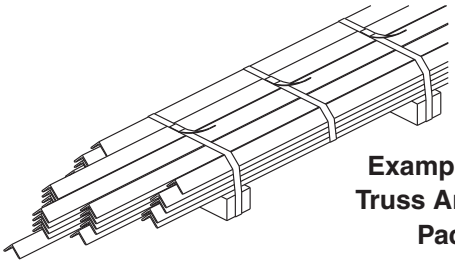


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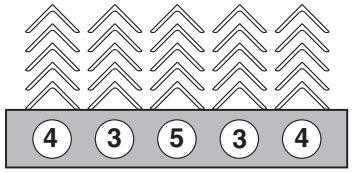
MODEL 8000



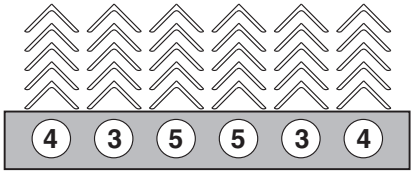
115' Truss Angle Span Pack (KA09117)



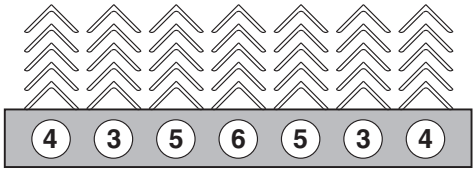
Example of 135' Truss Angle Span Packing



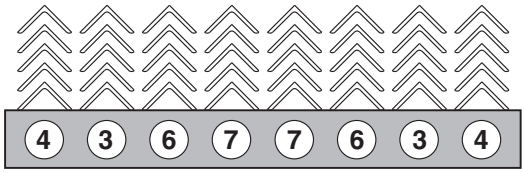
135' & 140' Truss Angle Span Pack (KA09047)



160' Truss Angle Span Pack (KA09050)



180', 185' & 187' Truss Angle Span Pack (KA09025)



205' Truss Angle Span Pack (KA09026)

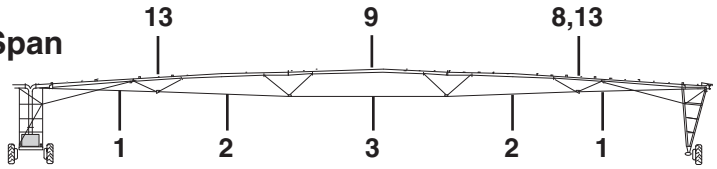
NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"
7	9360058	112.09”	9360059	136.84”

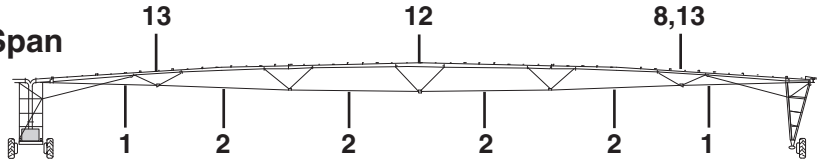
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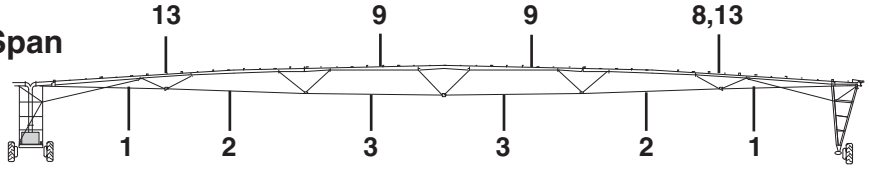
115' Span



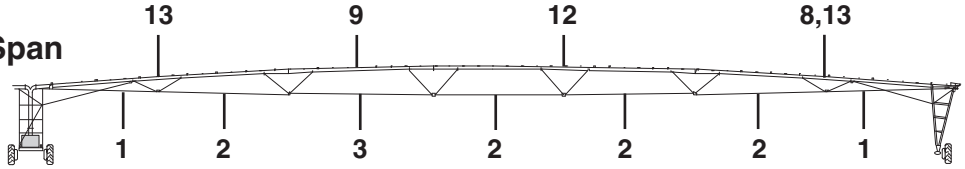
135' Span



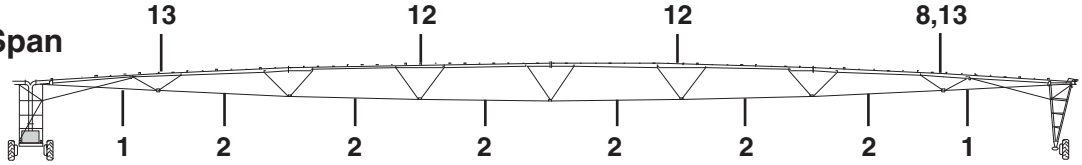
140' Span



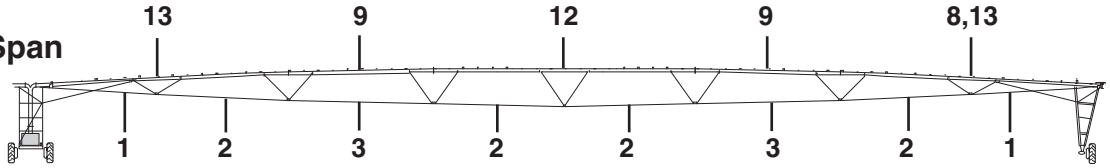
160' Span



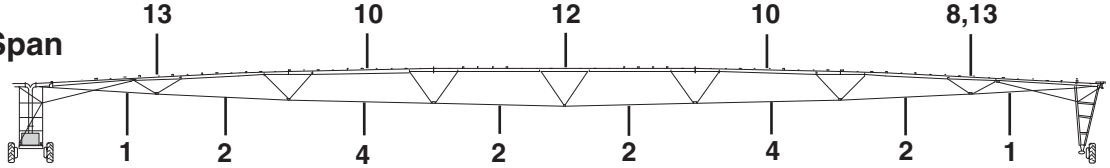
180' Span



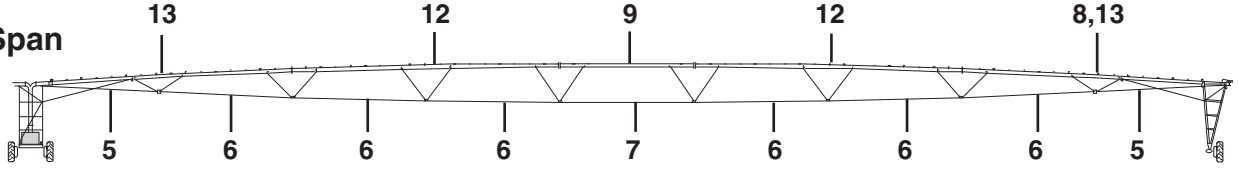
185' Span



187' Span

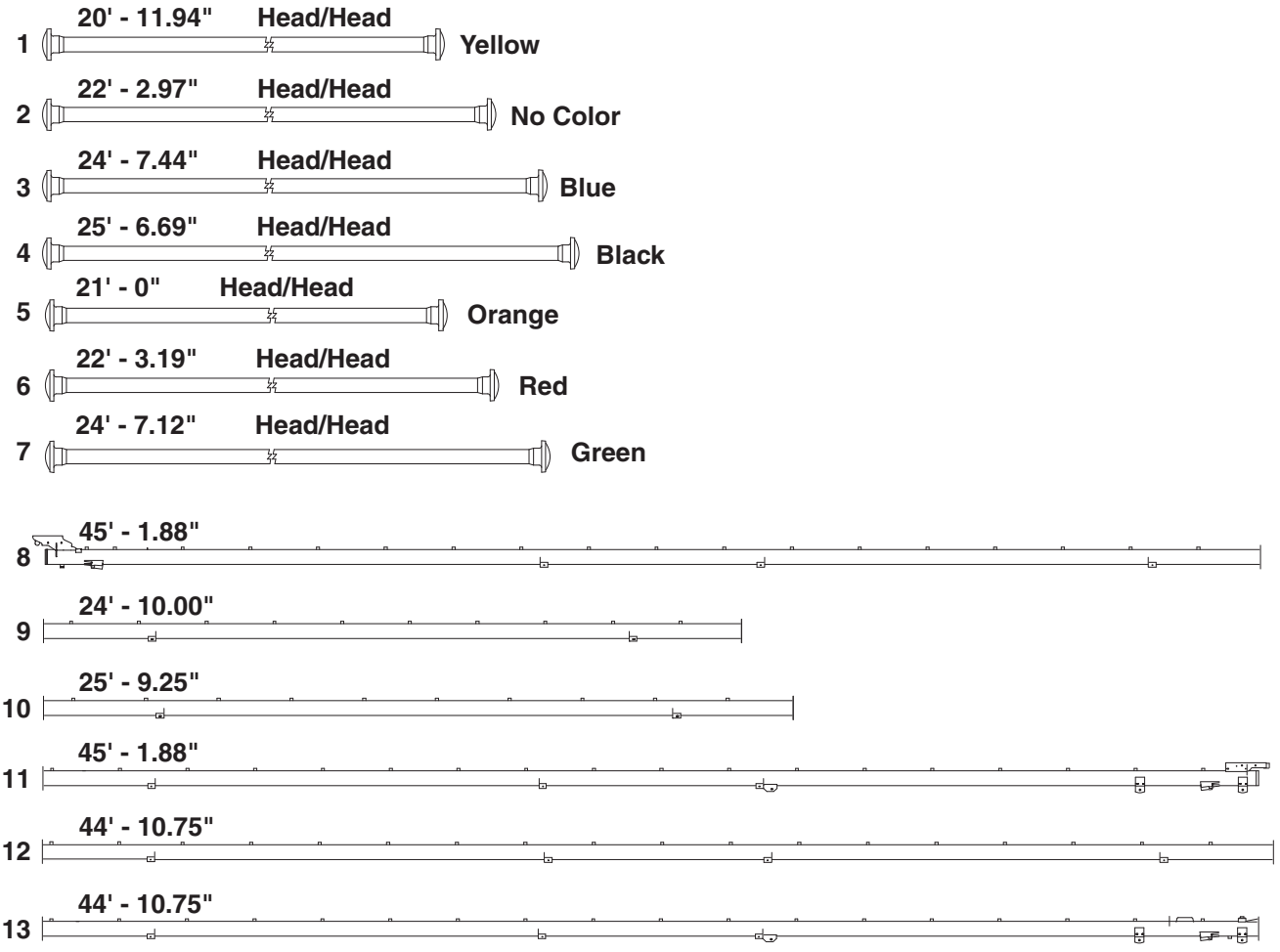


205' Span



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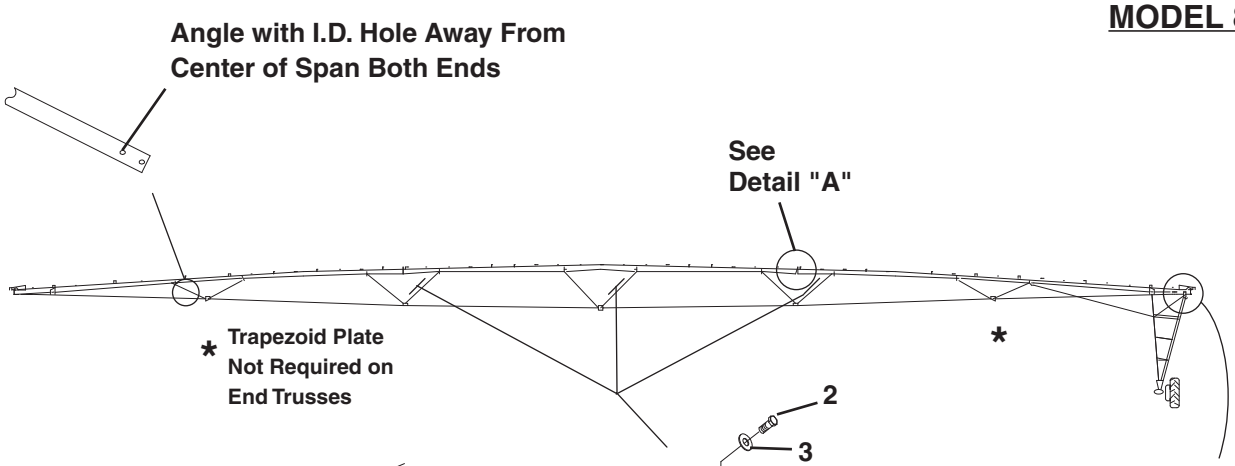
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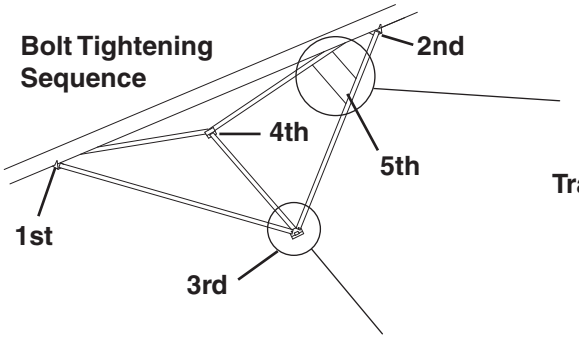


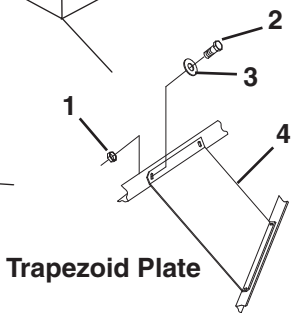
Item	Description	Part #	
		30"	108"
1	3/4" Tower Truss Rod (20'-11.94")	9360060	9360060
2	3/4" Standard Intermediate Truss Rod (22'-2.97")	9360061	9360061
3	3/4" Intermediate Truss Rod (24'-7.44")	9360062	9360062
4	3/4" Intermediate Truss Rod (25'-6.69")	9360063	9360063
5	13/16" Tower Truss Rod (21'-0")	9360064	9360064
6	13/16" Standard Intermediate Truss Rod (22'-3/19")	9360065	9360065
7	13/16" Intermediate Truss Rod (24'-7.12")	9360066	9360066
8	Swivel Pipe (45'-1.88")	9360022	9360012
9	25' Short Intermediate Pipe (24'-10.00")	9360018	9360004
10	26' Short Intermediate Pipe (25'-9.25")	9360019	-
11	Fixed Pipe (45'-1.88")	9360021	9360010
12	45' Standard Intermediate Pipe (44'-10.75")	9360020	9360008
13	Last Pipe (44'-10.75")	9360024	9360016

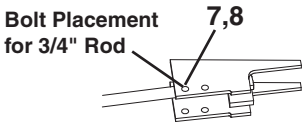
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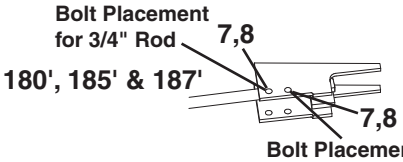




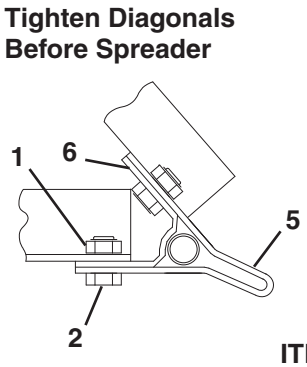


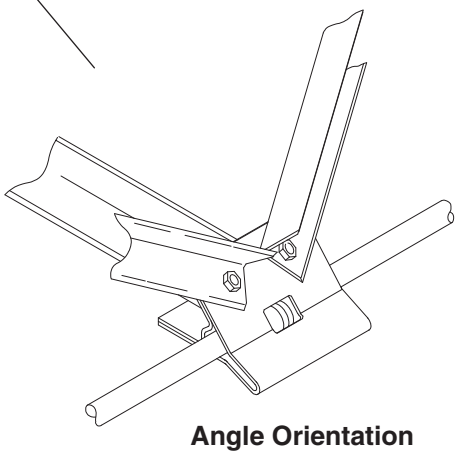


115', 135', 140',
& 160' Spans

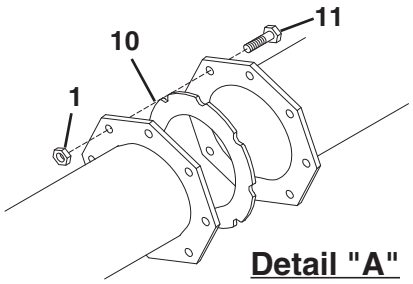


Bolt Placement for
13/16" & 7/8" Rods
205' Spans





Angle Orientation



Detail "A"

ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	Truss Rod Spacer	9360080
10	6-5/8" Gasket	0991107
11	1/2" x 2" Cap Screw	0161024

NOTE: Spacer (#9) not used with Truss Pkg. #4. *(refer to Truss Pkg. Locations and Truss Angle Packages in this section)*

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CART SPANS
8-5/8" PIPE
30" & 108" COUPLER SPACING

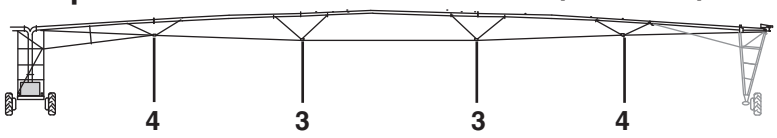


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MODEL 8000

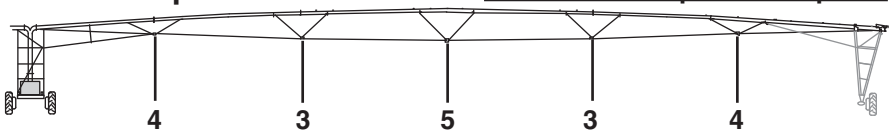
115' Span

Truss Angle Span Pack
(KA09117)
No Truss Rod Spacers Required



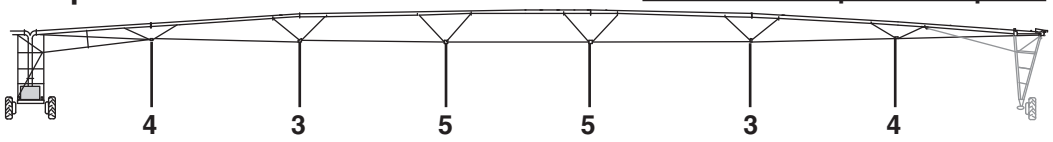
135' & 140' Span

Truss Angle Span Pack
(KA09047)
No Truss Rod Spacers Required



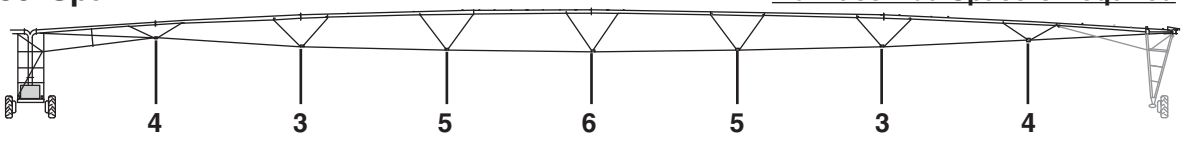
160' Span

Truss Angle Span Pack
(KA09050)
No Truss Rod Spacers Required



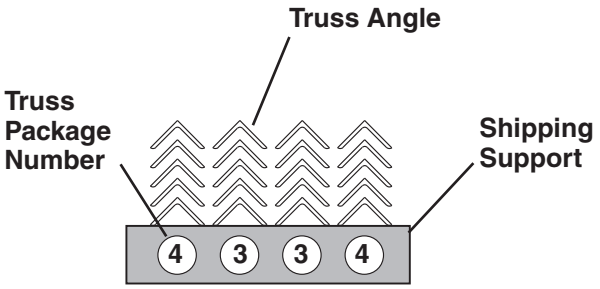
180' Span

Truss Angle Span Pack
(KA09025)
No Truss Rod Spacers Required

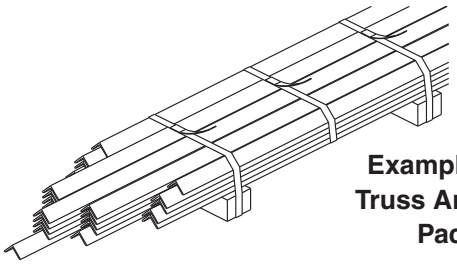


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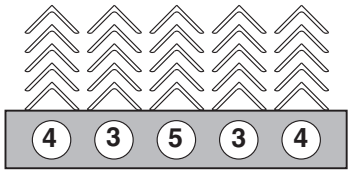
MODEL 8000



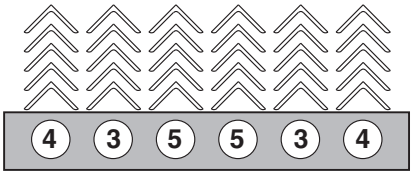
115' Truss Angle Span Pack
(KA09117)



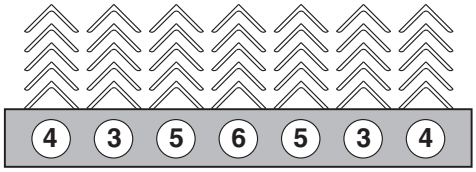
Example of 135' Truss Angle Span Packing



135' & 140' Truss Angle Span Pack
(KA09047)



160' Truss Angle Span Pack
(KA09050)



180' Truss Angle Span Pack
(KA09025)

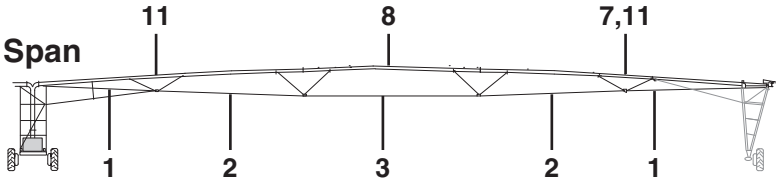
NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"

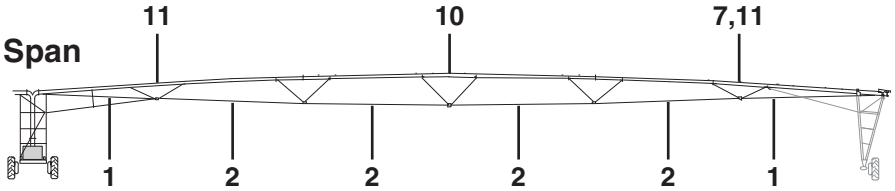
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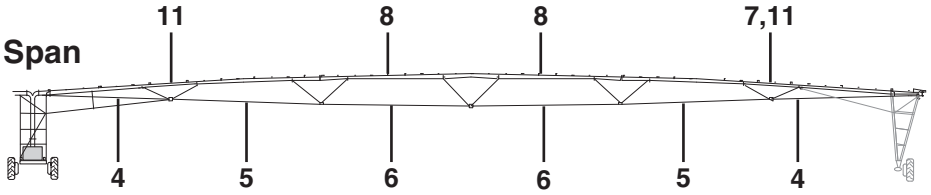
115' Span



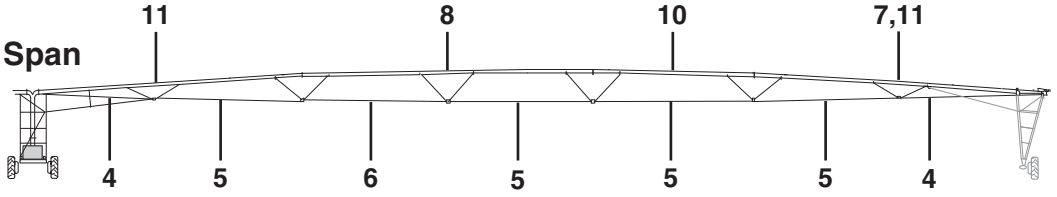
135' Span



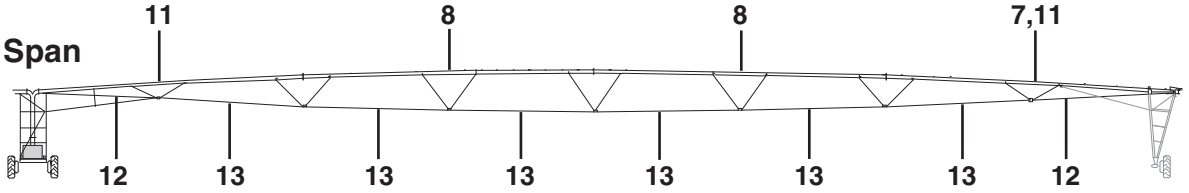
140' Span



160' Span

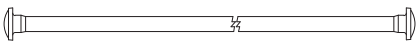


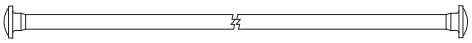
180' Span

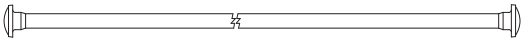


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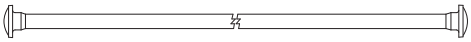
MODEL 8000

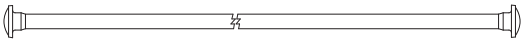
1 **20' - 11.94" Head/Head**  **Yellow**

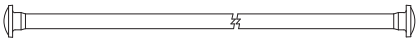
2 **22' - 2.97" Head/Head**  **No Color**

3 **24' - 7.44" Head/Head**  **Blue**

4 **21' - 6.69" Head/Head**  **Orange**

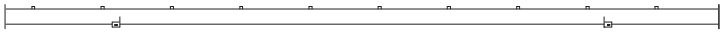
5 **22' - 3.19" Head/Head**  **Red**

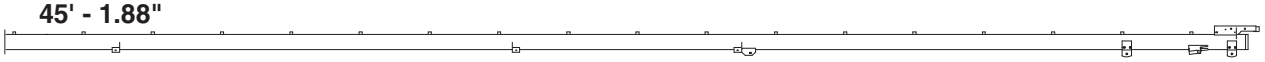
6 **24' - 7.12" Head/Head**  **Green**

12 **21' - 00" Head/Head**  **Metallic Gold**

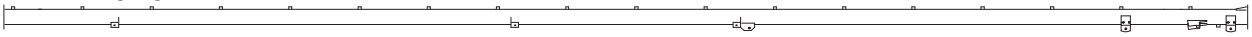
13 **22'-3.19" Head/Head**  **Lite Blue**

7 **45' - 1.88"** 

8 **24'-10.00"** 

9 **45' - 1.88"** 

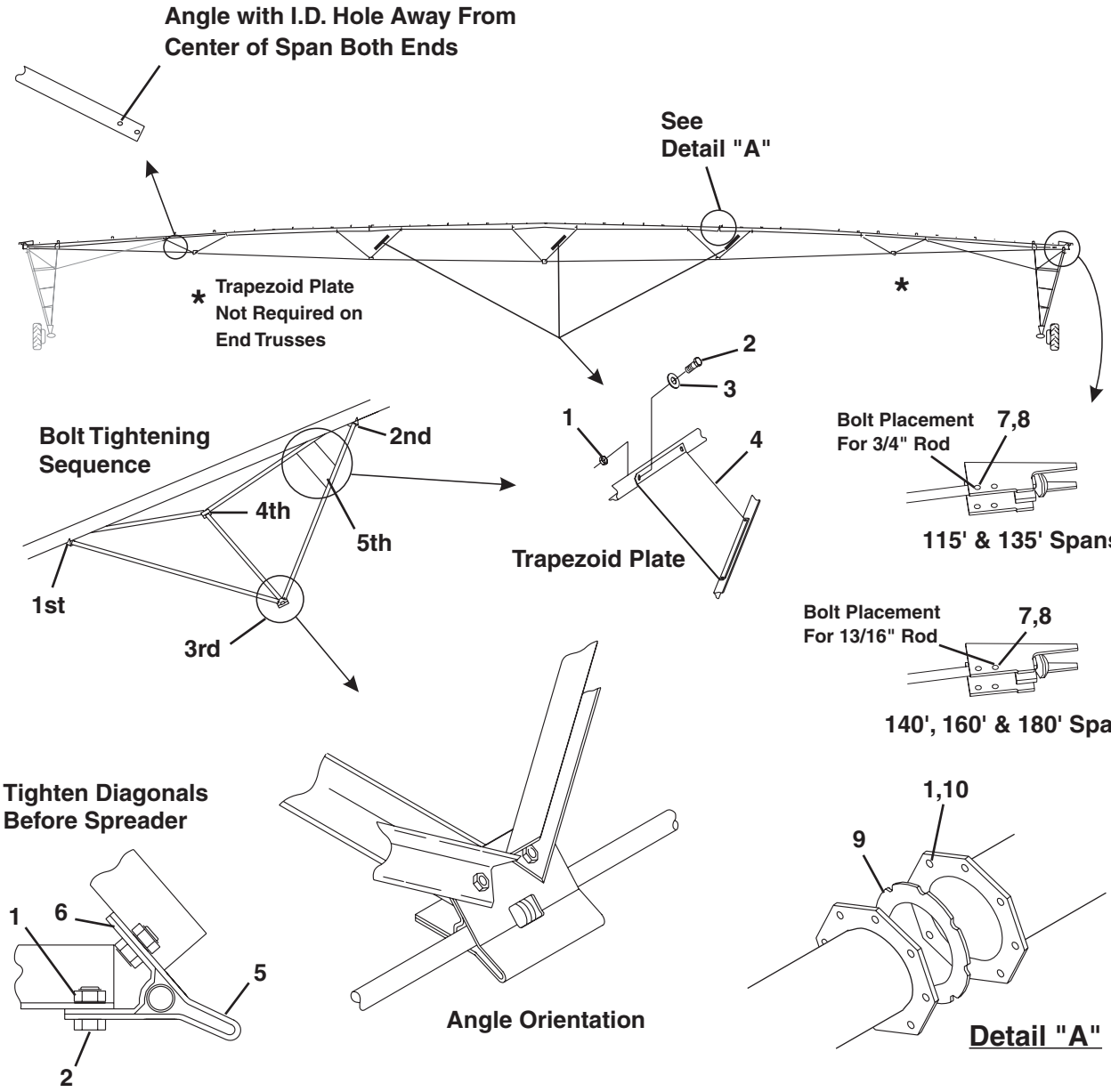
10 **44' - 10.75"** 

11 **44' - 10.75"** 

Item	Description	Part # 30"	Part # 108"
1	3/4" Tower Truss Rod (20'-11.94")	9360060	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061	9360061
3	3/4" Intermediate Truss Rod (24'-7.44")	9360062	9360062
4	13/16" Tower Truss Rod (21'-00")	9360064	9360064
5	13/16" Std. Inter. Truss Rod (22'-3.19")	9360065	9360065
6	13/16" Intermediate Truss Rod (24'-7.12")	9360066	9360066
12	7/8" Tower Truss Rod (21' - 0")	9363847	9363847
13	7/8" Tower Truss Rod (22' - 3.19")	9363848	9363848
7	Swivel Pipe (45'-1.88")	9360092	9360086
8	25' Std. Intermediate Pipe (24'-10.00")	9360089	9360117
9	Fixed Pipe (45'-1.88")	9360091	9360085
10	45' Standard Inter. Pipe (44'-10.75")	9360090	9360125
11	Transition Pipe (44'-10.75")	9360093	9360088

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ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	8-5/8" Gasket	0994500
10	1/2" x 2" Cap Screw	0161024

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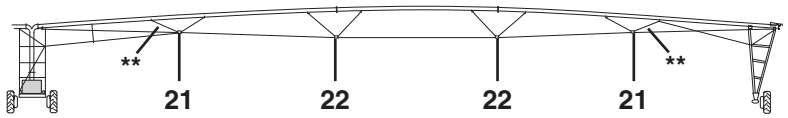
CART SPANS
10" PIPE
30" COUPLER SPACING



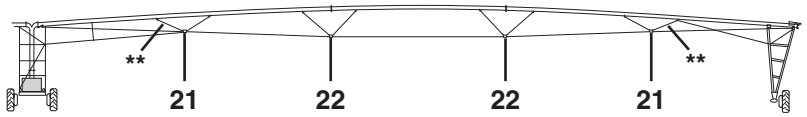
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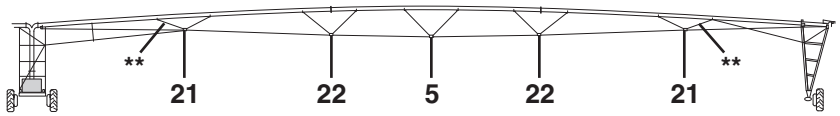
112.5' Span



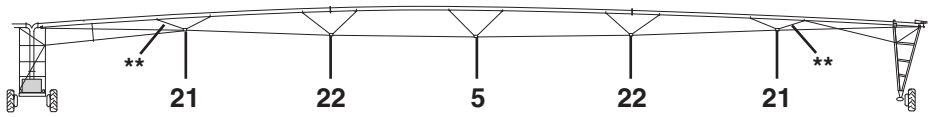
115' Span



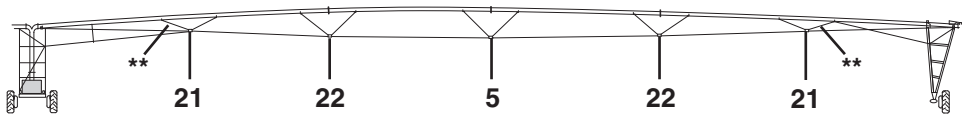
120' Span



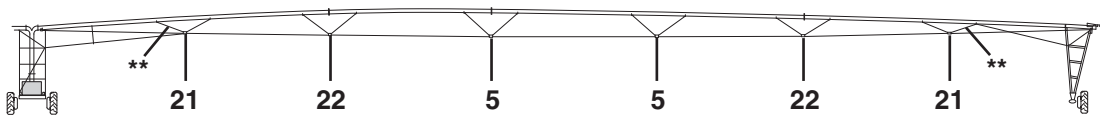
135' Span



140' Span



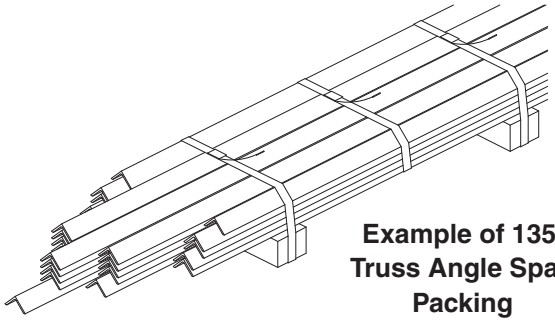
160' Span



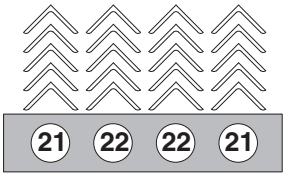
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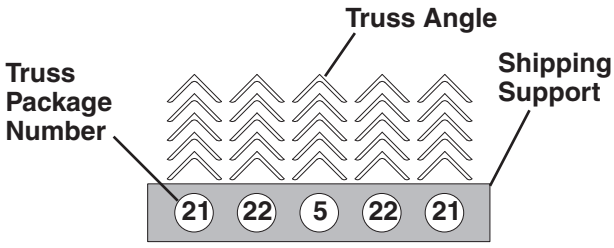
Reference Assembly Detail Page for Exact Location of Truss Packages



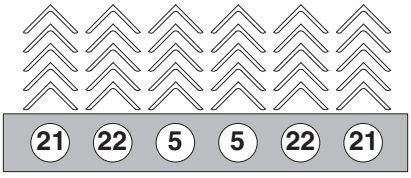
Example of 135' Truss Angle Span Packing



112.5' & 115' Truss Angle Span Pack (KA09551)



120', 135' & 140' Truss Angle Span Pack (KA09552)



160' Truss Angle Span Pack (KA09930)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets.

THESE PARTS MUST BE ORDERED SEPARATELY.

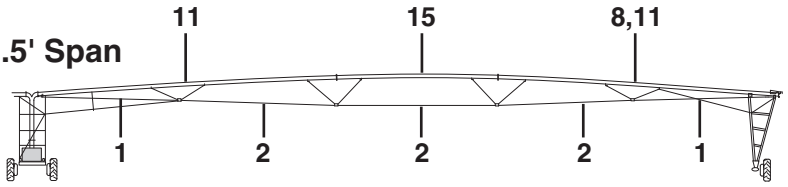
TRUSS PKG #	DIAGONAL		SPREADER	
	Overall Part #	Length	Overall Part #	Length
21	9361754	65.45"	9361755	61.01"
	9361753	63.60"	-	-
22	9361756	88.36"	9361757	101.47"
5	9360054	97.25"	9360055	115.03"

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

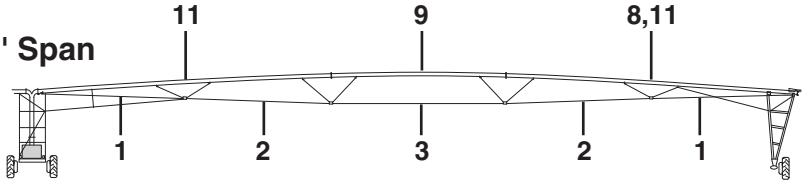
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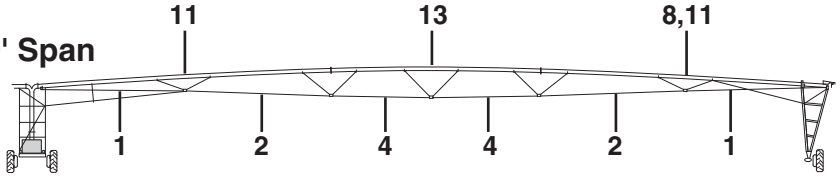
112.5' Span



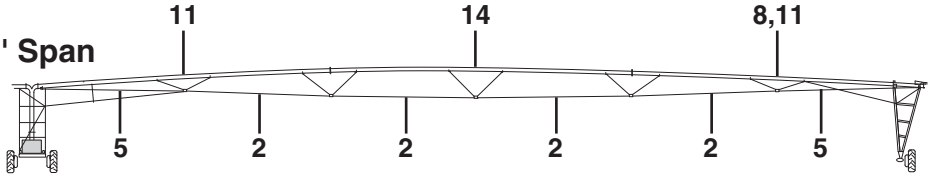
115' Span



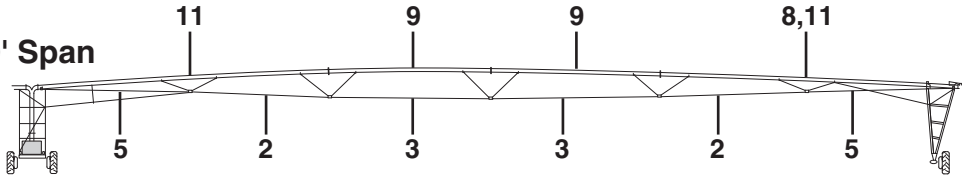
120' Span



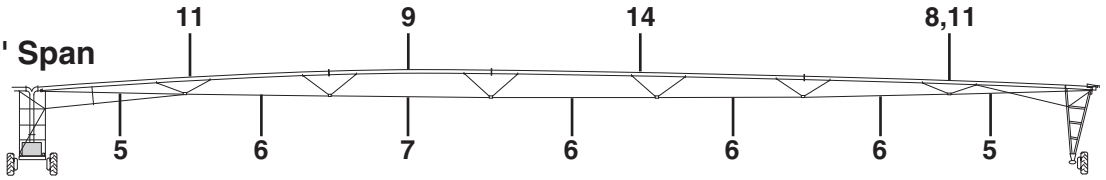
135' Span



140' Span

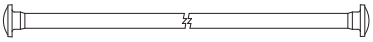


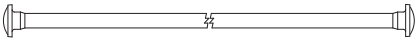
160' Span

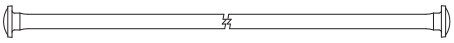


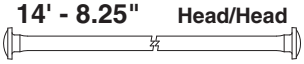
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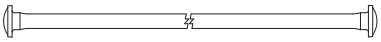
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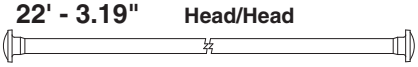
1 **20' - 11.94"** Head/Head  **Yellow** **3/4" Tower** **9360060**

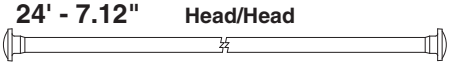
2 **22' - 2.97"** Head/Head  **No Color** **3/4" Stand. Inter.** **9360061**

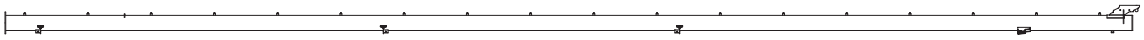
3 **24' - 7.44"** Head/Head  **True Blue Dark** **3/4" Stand. Inter.** **9360062**

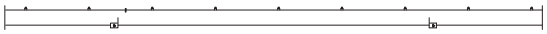
4 **14' - 8.25"** Head/Head  **Black** **3/4" Stand. Inter.** **9360764**

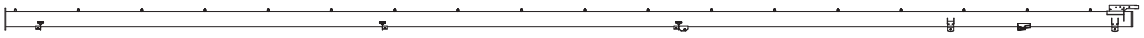
5 **21' - 0.00"** Head/Head  **Orange** **13/16" Tower** **9360064**

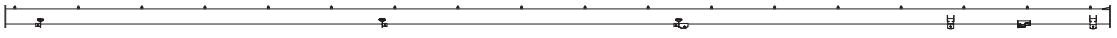
6 **22' - 3.19"** Head/Head  **Red** **13/16" Stand. Inter.** **9360065**

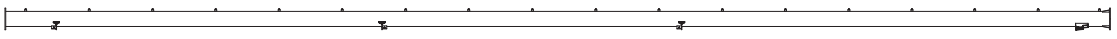
7 **24' - 7.12"** Head/Head  **Hunter Green Dark** **13/16" Stand Inter.** **9360066**

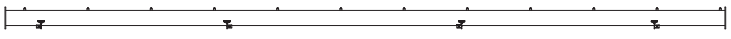
8 **45' - 1.88"** 

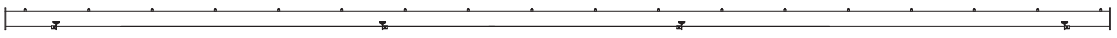
9 **24' - 10.00"** 

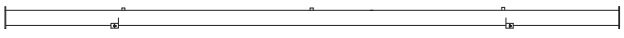
10 **45' - 1.88"** 

11 **44' - 10.75"** 

12 **44' - 10.75"** 

13 **29' - 9.00"** 

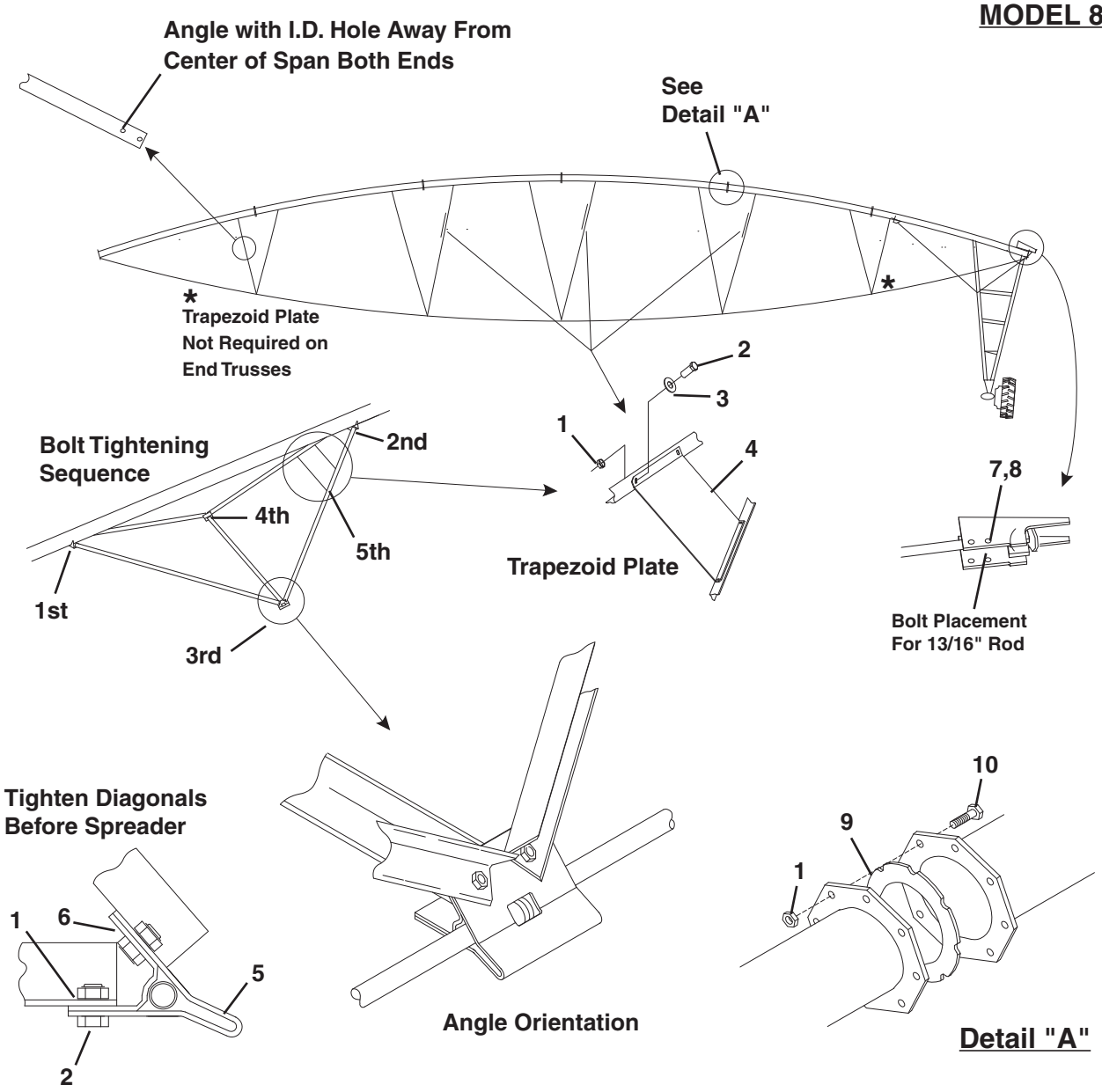
14 **44' - 10.75"** 

15 **22' - 5.28"** 

Item	Description	30" Part #
8	Swivel Pipe (45'-1.88")	9361751
9	25' Std. Intermediate Pipe (24'-10.00")	9361762
10	Fixed Pipe (45'-1.88")	9361750
11	Transition Pipe (44'-10.75")	9361748
12	Pivot Pipe (44'-10.75")	9361747
13	30' Intermediate Pipe (29'-9.00")	9361760
14	45' Intermediate Pipe (44'-10.75")	9361749
15	22-1/2' Std. Intermediate Pipe (22'-5.28")	9361739

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MODEL 8000



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	10" Gasket	0992385
10	1/2" x 2" Cap Screw	0161024

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CART SPANS
EXPORT 6-5/8" PIPE
90" COUPLER SPACING

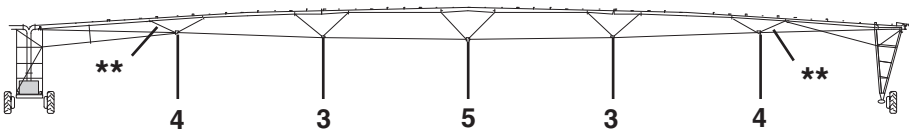


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MODEL 8000

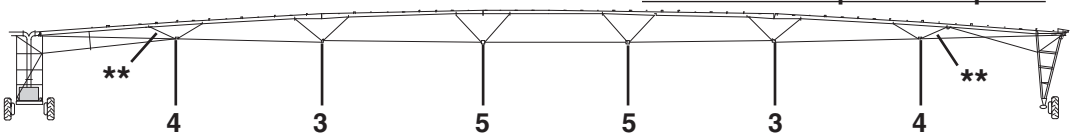
135' Span

Truss Angle Span Pack
(KA09047)
No Truss Rod Spacers Required



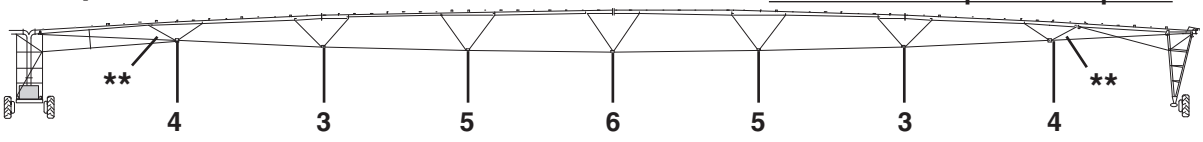
157.5' Span

Truss Angle Span Pack
(KA09050)
No Truss Rod Spacers Required



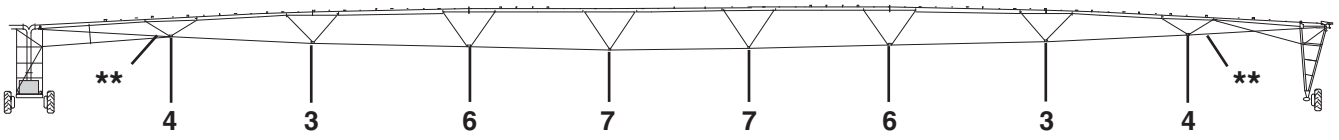
180' Span

Truss Angle Span Pack
(KA09025)
No Truss Rod Spacers Required



202.5' Span

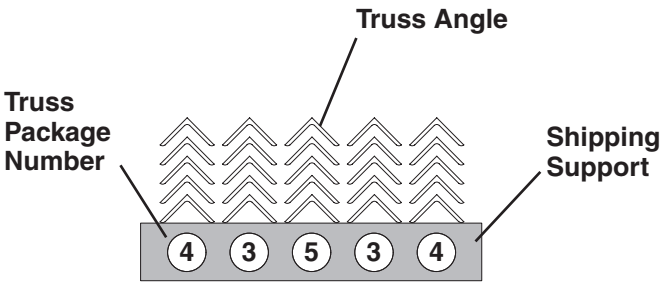
Truss Angle Span Pack
(KA09026)
No Truss Rod Spacers Required



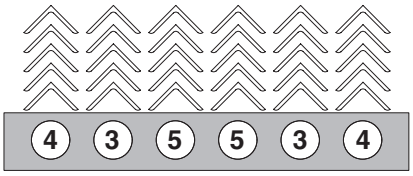
****NOTE: This is the location of the longer diagonal with the I.D. hole.**

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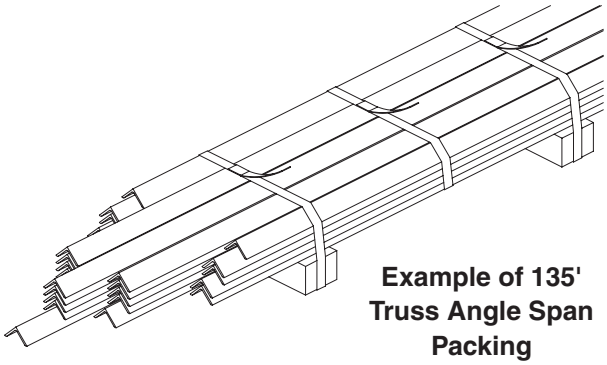
MODEL 8000



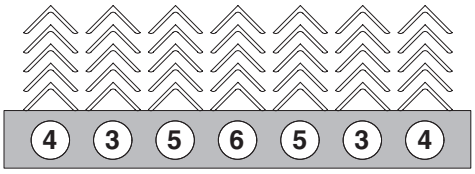
135' Truss Angle Span Pack
(KA09047)



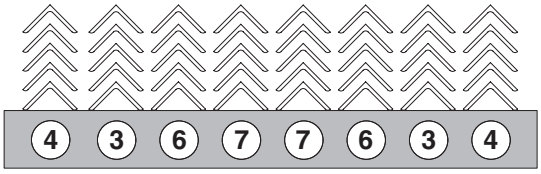
157.5' Truss Angle Span Pack
(KA09050)



Example of 135' Truss Angle Span Packing



180' Truss Angle Span Pack
(KA09025)



202.5' Truss Angle Span Pack
(KA09026)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

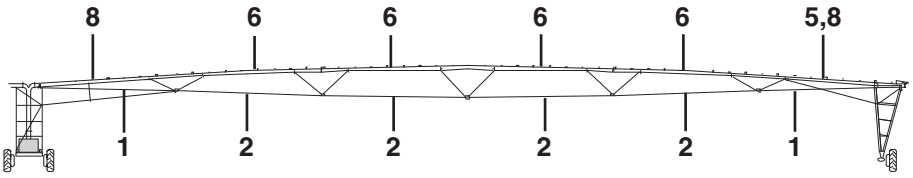
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"
7	9360058	112.09"	9360059	136.84"

** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.

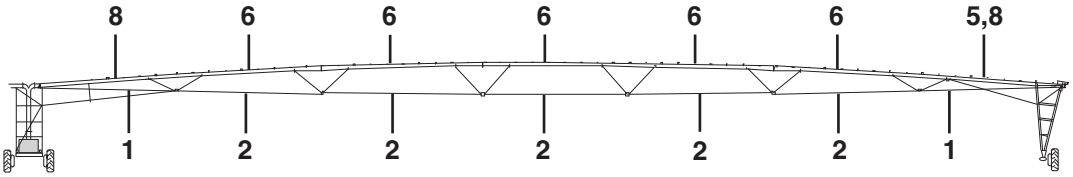
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MODEL 8000

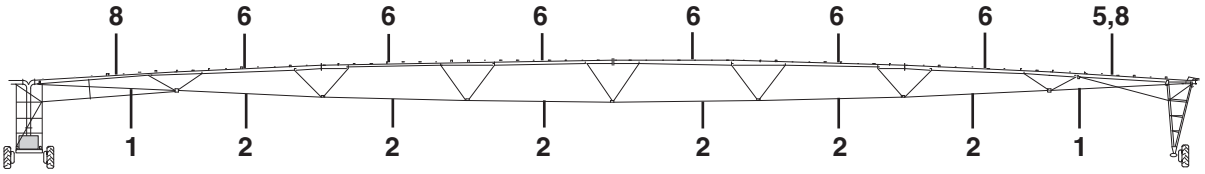
135' Span



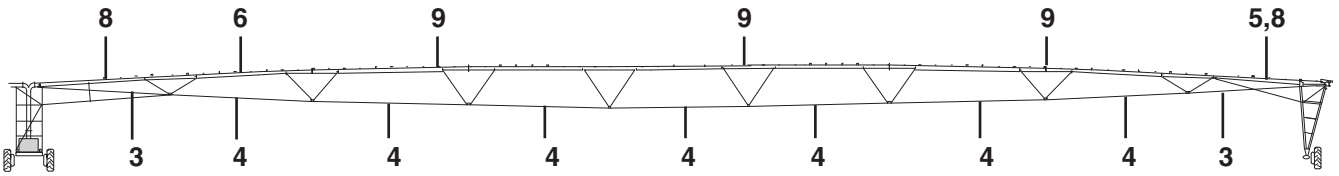
157.5' Span



180' Span

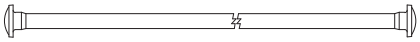


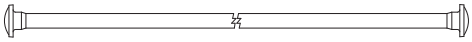
202.5' Span



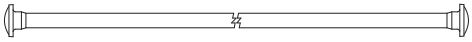
Copyright © 2019 Valmont Industries, Inc.

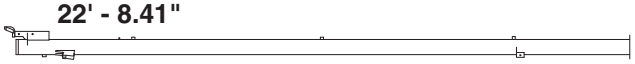
MODEL 8000

1 **20' - 11.94" Head/Head**  **Yellow**

2 **22' - 2.97" Head/Head**  **No Color**

3 **21' - 0.00" Head/Head**  **Orange**

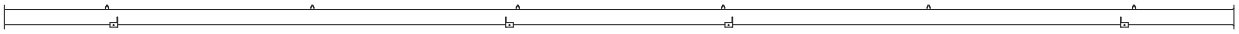
4 **22' -3.19" Head/Head**  **Red**

5 **22' - 8.41"** 

6 **22' - 5.28"** 

7 **22' - 8.41"** 

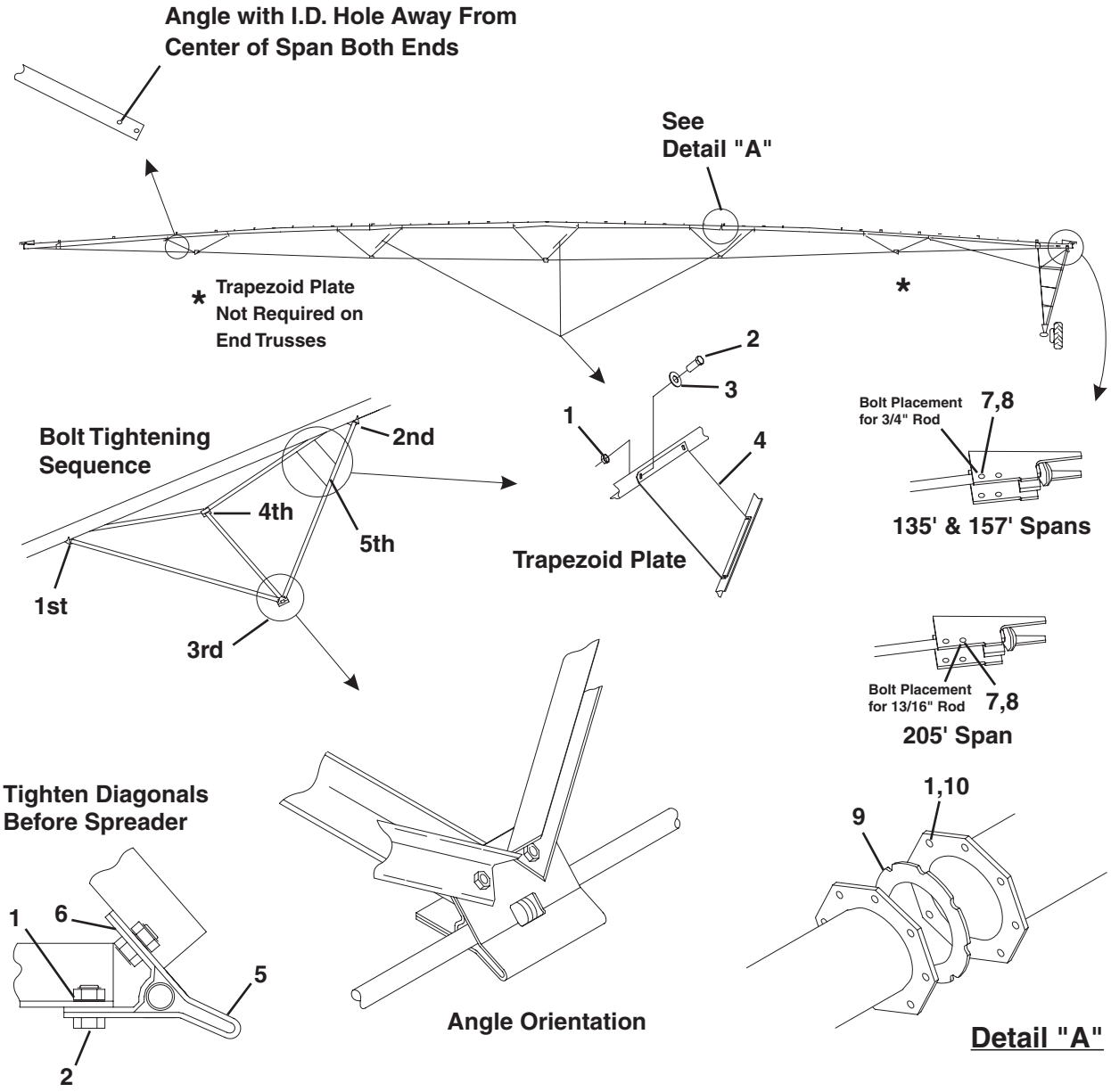
8 **22' - 5.28"** 

9 **44' - 10.75"** 

Item	Description	Part
1	3/4" Tower Truss Rod (20'-11.94")	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061
3	13/16" Tower Truss Rod (21'-0")	9360064
4	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
5	Swivel Pipe (22'-8.41")	9360128
6	22-1/2' Std. Intermediate Pipe (22'-5.28")	9360124
7	Fixed Pipe (22'-8.41")	9360126
8	Last Pipe (22'-5.28")	9360132
9	45' Intermediate Pipe (44'-10.75")	9360231

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MODEL 8000



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	6-5/8" Gasket	0991107
10	1/2" x 2" Cap Screw	0161024

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CART SPANS
EXPORT 8-5/8" PIPE
90" COUPLER SPACING

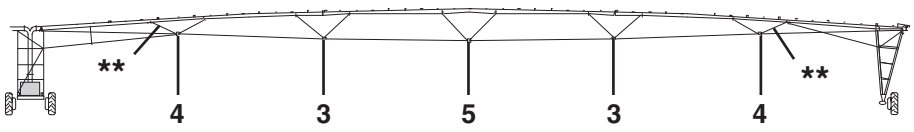


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MODEL 8000

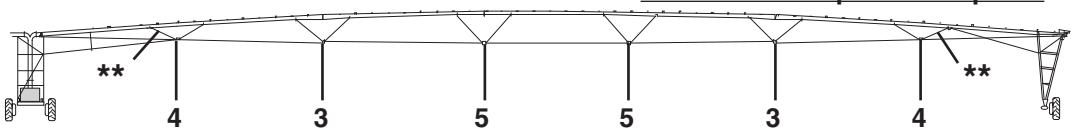
135' Span

Truss Angle Span Pack
(KA09047)
No Truss Rod Spacers Required



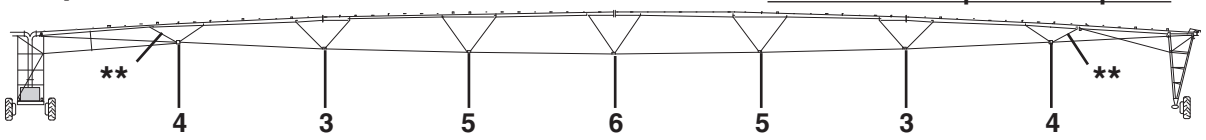
157.5' Span

Truss Angle Span Pack
(KA09050)
No Truss Rod Spacers Required



180' Span

Truss Angle Span Pack
(KA09025)
No Truss Rod Spacers Required

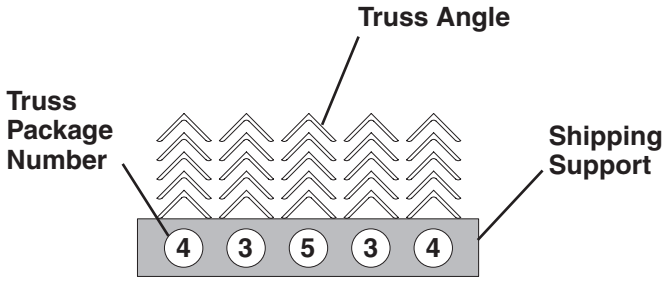


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

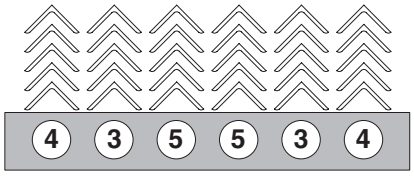
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MODEL 8000

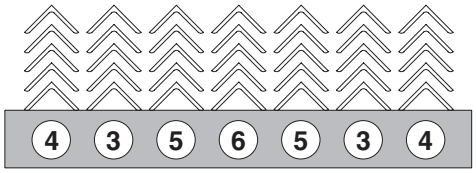
Reference Assembly Detail Page for Exact Location of Truss Packages



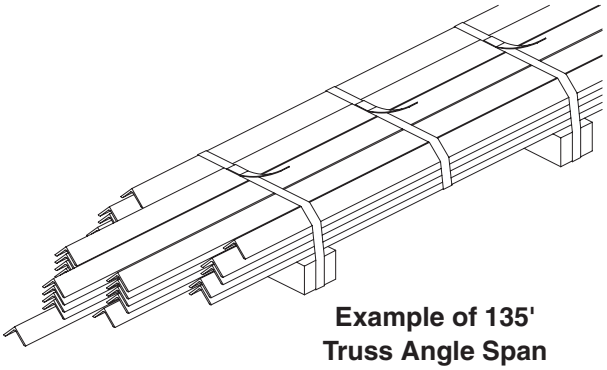
135' Truss Angle Span Pack (KA09047)



157.5' Truss Angle Span Pack (KA09050)



180' Truss Angle Span Pack (KA09025)



Example of 135' Truss Angle Span Packing

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

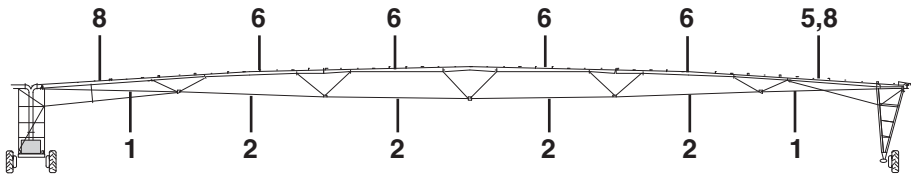
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

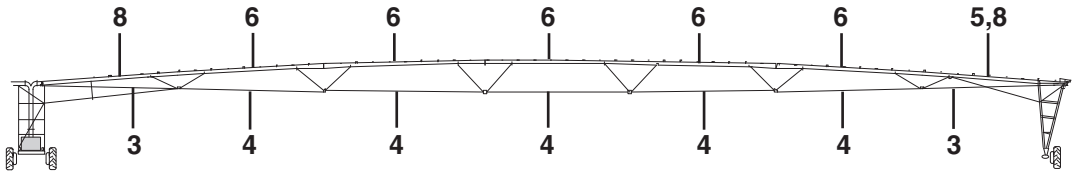
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MODEL 8000

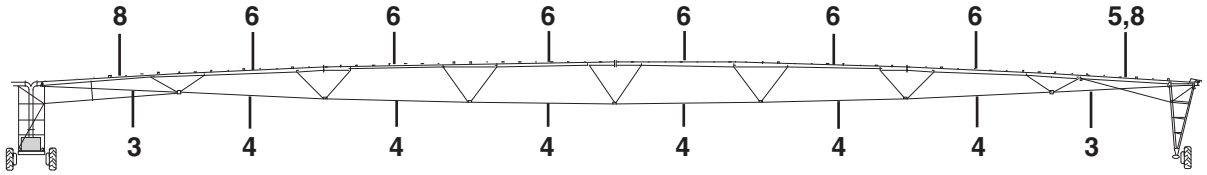
135' Span



157.5' Span

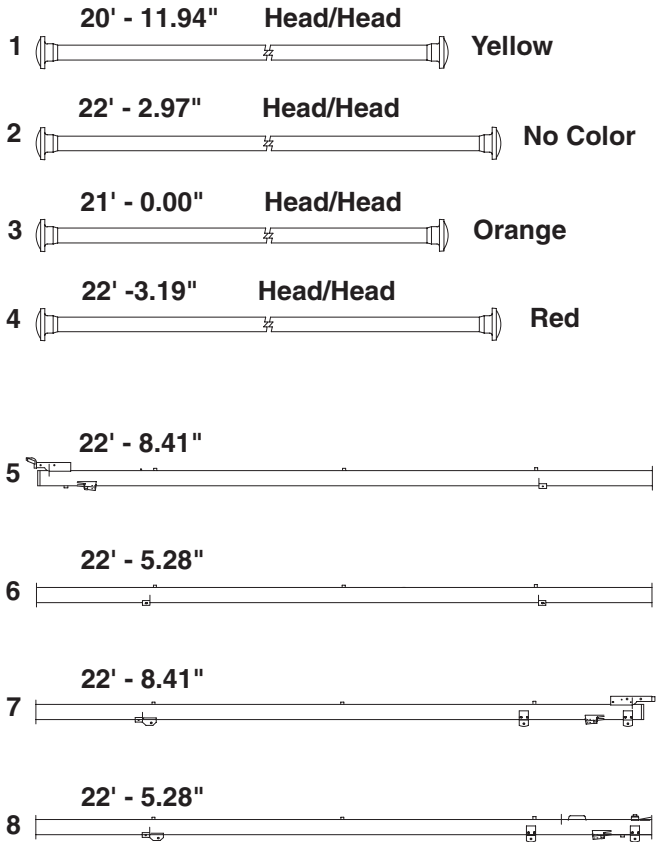


180' Span



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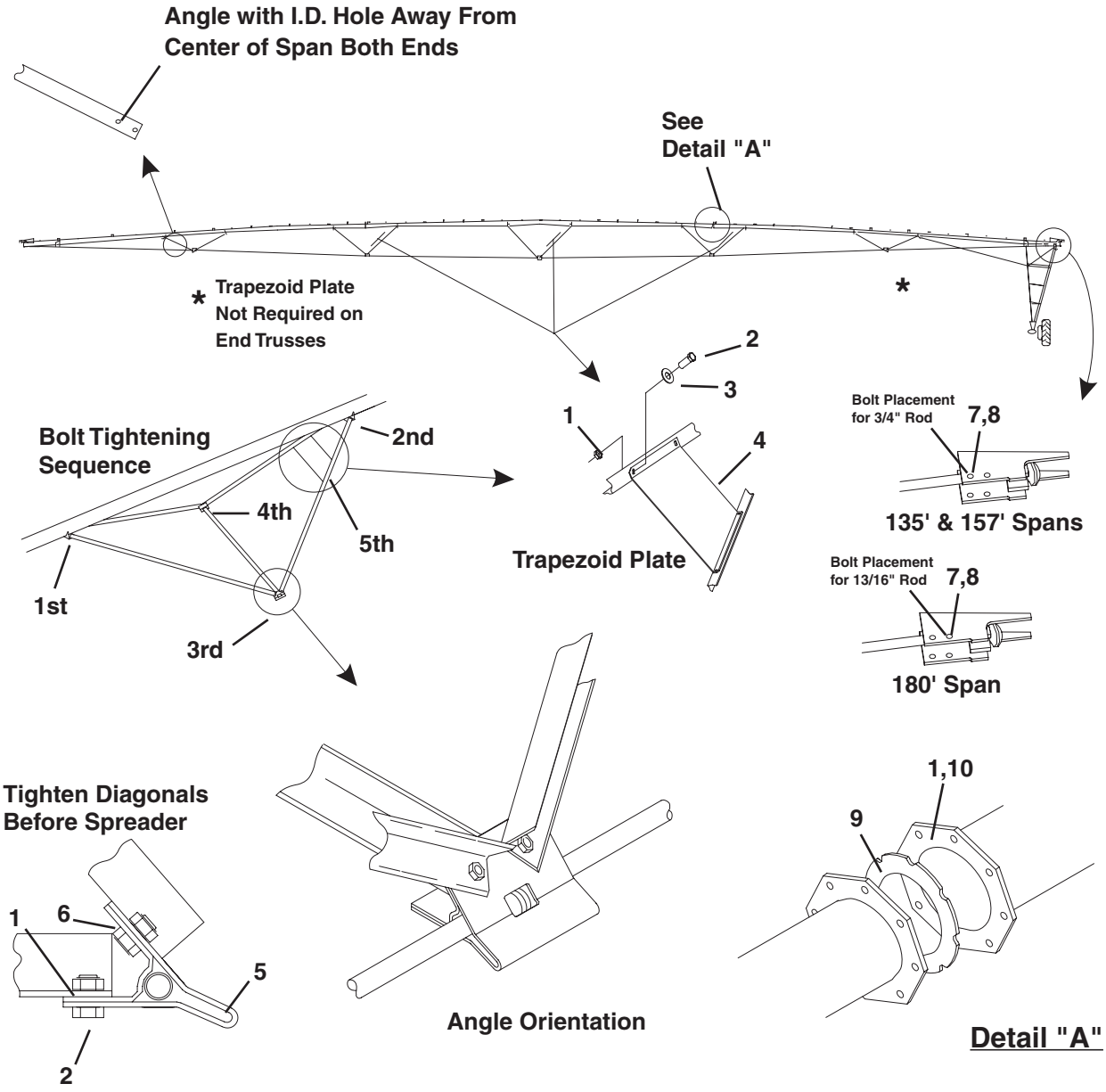
MODEL 8000



Item	Description	Part #
1	3/4" Tower Truss Rod (20'-11.94")	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061
3	13/16" Tower Truss Rod (21'-0")	9360064
4	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
5	Swivel Pipe (22'-8.41")	9360098
6	22-1/2' Std. Intermediate Pipe (22'-5.28")	9360094
7	Fixed Pipe (22'-8.41")	9360096
8	Transition Pipe (22'-5.28")	9360101

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MODEL 8000



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	8-5/8" Gasket	0994500
10	1/2" x 2" Cap Screw	0161024

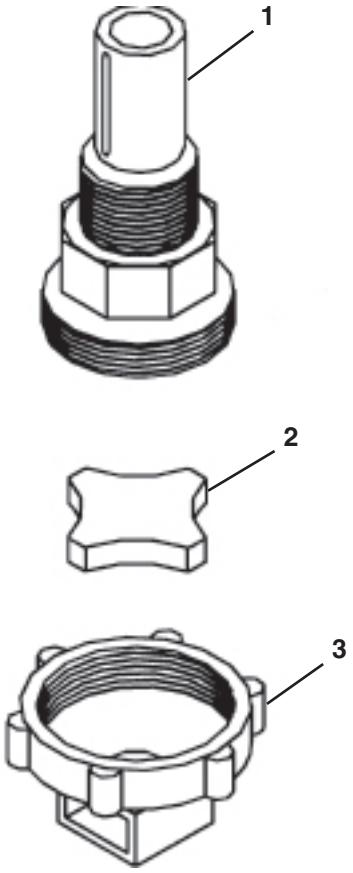
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PIPELINE ACCESSORIES



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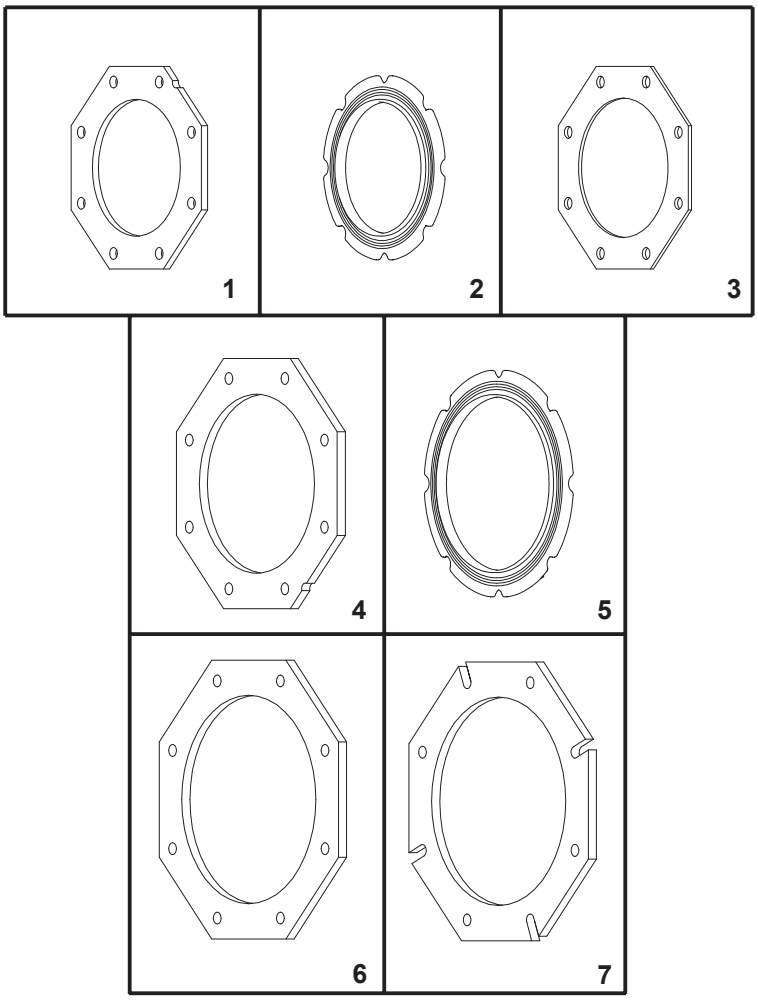
MODEL 8000



ITEM	DESCRIPTION	PART #
1	Upper Drain Body	0246170
	Upper Drain Body Alum (Not Shown)	0232023
2	Drain Seal	0232568
3	Lower Drain Body	0232004

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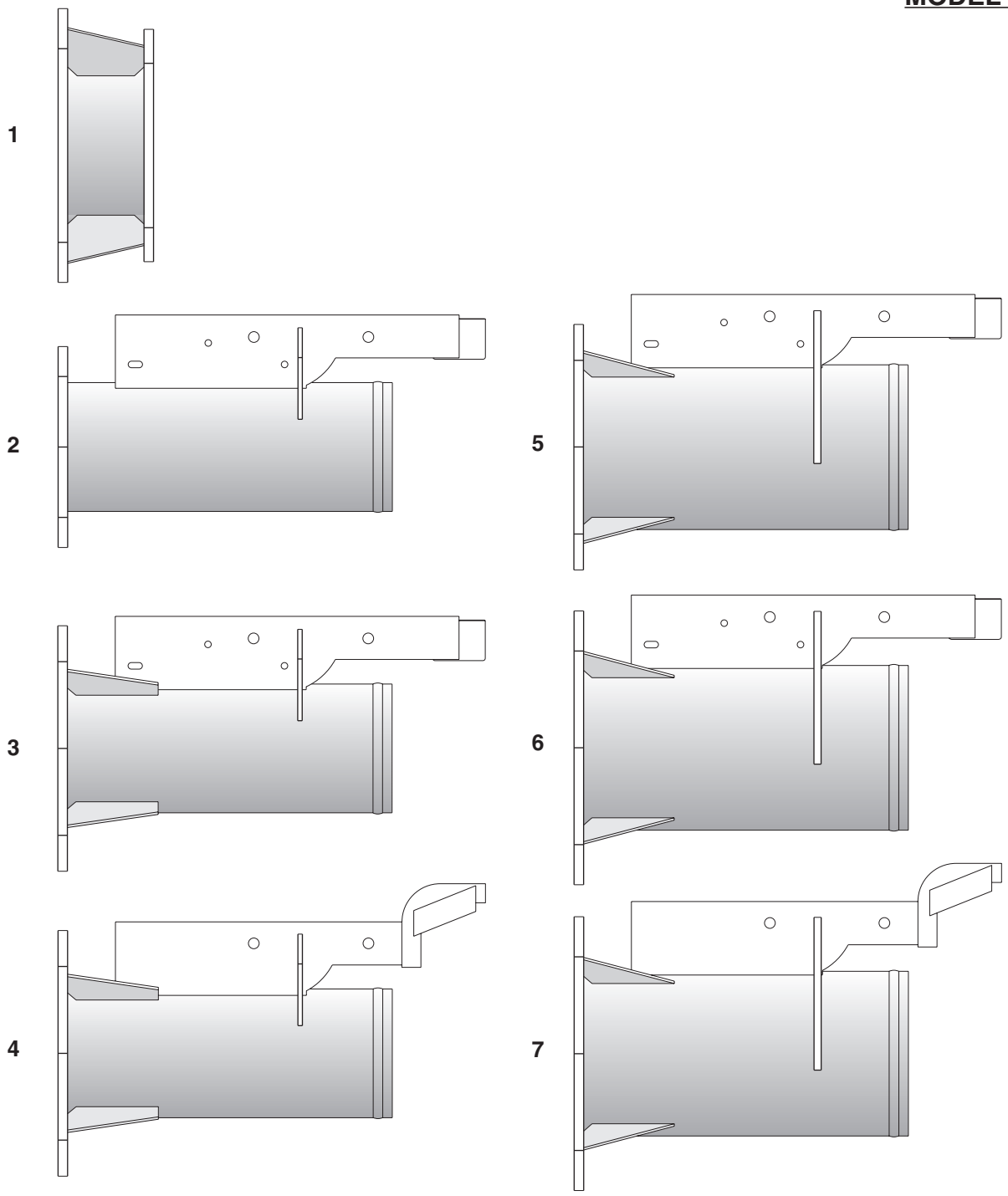
MODEL 8000



ITEM	DESCRIPTION	PART #
1	6-5/8" Pipe Flange	1800010
2	6-5/8" Pipe Gasket	0991107
3	6-5/8" Flat Rubber Gasket	0992211
4	8-5/8" Pipe Flange	9360121
5	8-5/8" Pipe Gasket	0994500
6	10" Pipe Flange	1702309
7	10 " Flat Rubber Gasket	0992385

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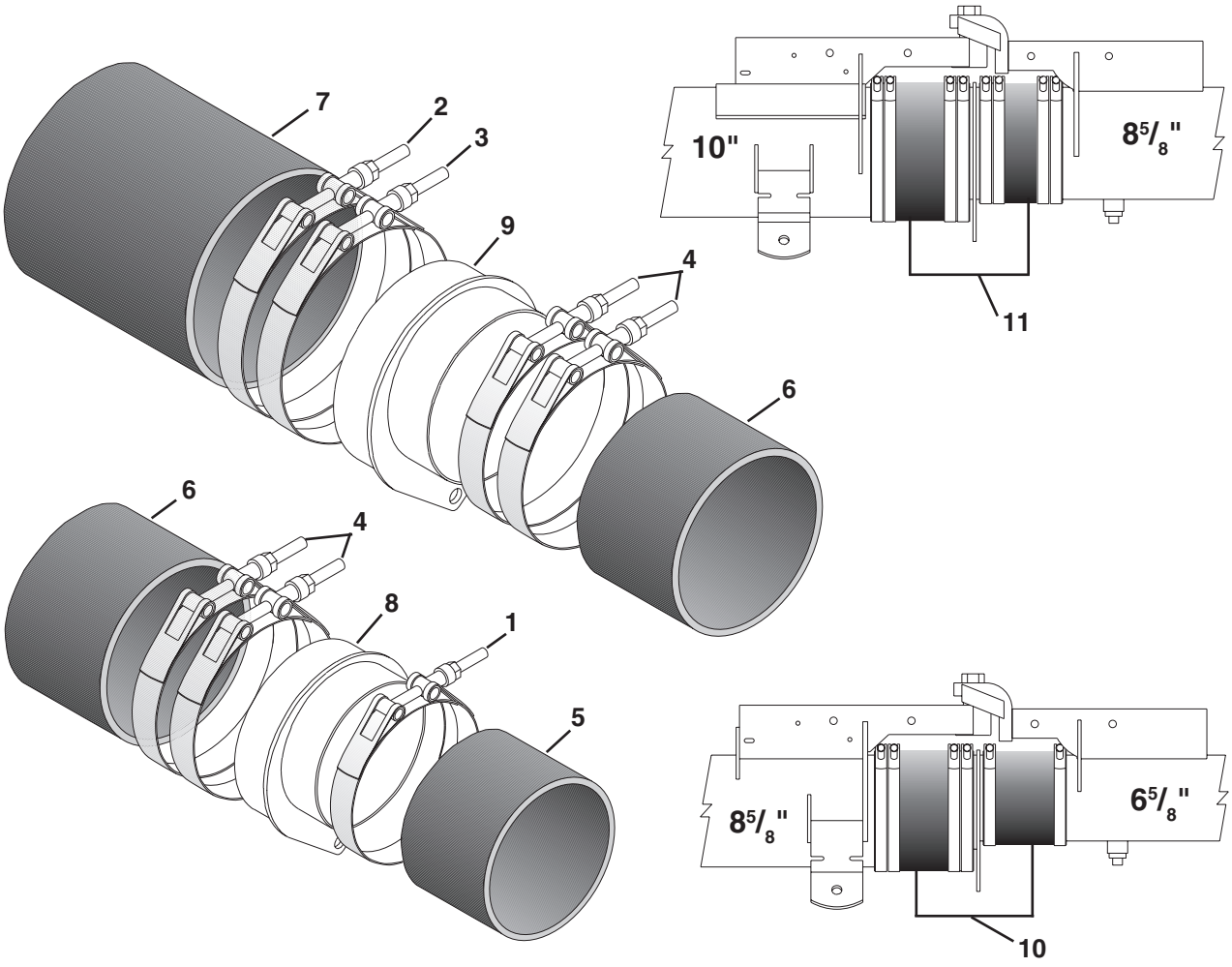
MODEL 8000



ITEM	DESCRIPTION	PART #
1	10" to 8" Reducer Transition	1780584
2	6-5/8" to 6-5/8" Transition Assembly	1730255
3	8-5/8" to 6-5/8" Transition Assembly	9360013
4	8-5/8" to 6-5/8" Transition Assembly	9330006
5	8-5/8" to 8-5/8" Transition Assembly	9330005
6	10" to 8-5/8" Transition Assembly	9360017
7	10" to 8-5/8" Transition Assembly	9330007

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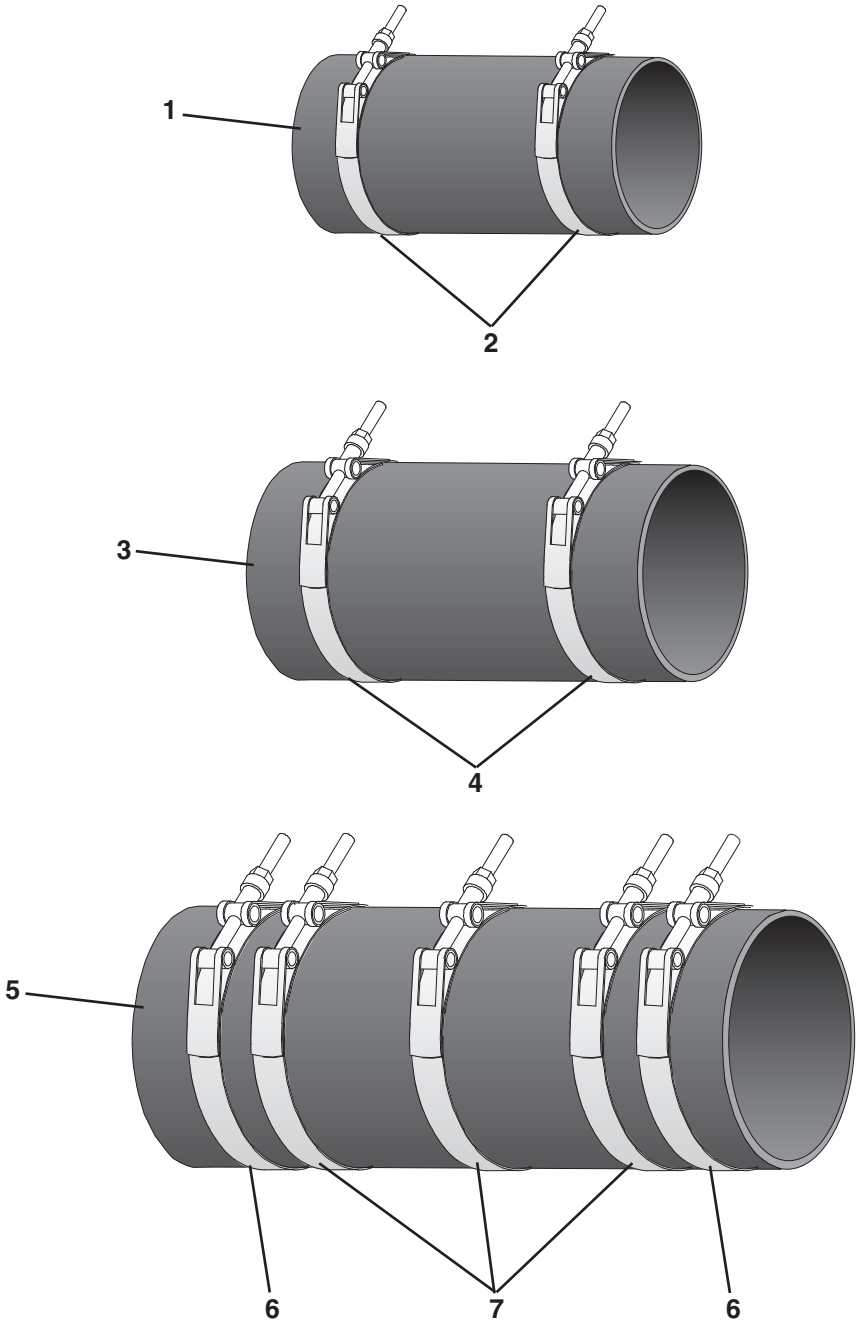
MODEL 8000



ITEM	DESCRIPTION	PART #
1	Clamp - 6-5/8"	0991087
2	Clamp - 10"	0992386
3	Clamp - 10" with Liner	0992441
4	Clamp - 8-5/8"	0994507
5	Hose - 6-5/8" x 8" Long	9360335
6	Hose - 8-5/8" x 8" Long	9360336
7	Hose - 10" x 8" Long	9360337
8	Transition Assemby 8-5/8" x 6-5/8"	9360338
9	Transition Assembly 10" x 8-5/8"	9360339
10	Complete Assembly 8-5/8" x 6-5/8" Transition Quantity: 1 Transition Assm., 2 Hoses, 3 Clamps	9360232
11	Complete Assembly 10" x 8-5/8" Transition Quantity: 1 Transition Assm., 2 Hoses, 6 Clamps	9360334

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MODEL 8000



ITEM	DESCRIPTION	PART #
1	6-5/8" Flex Hose	1800318
2	6-5/8" Flex Joint Clamp	0991087
3	8-5/8" Flex Hose	0994520
4	8-5/8" Flex Joint Clamp	0994507
5	10" Flex Hose	1702326
6	10" T-Bolt Clamp	0992386
7	10" Flex Joint Clamp	0992441

6-5/8" Span Flex Hose and Clamps Kit	KA02735
8-5/8" Span Flex Hose and Clamps Kit	KA02737

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CART SPANS
Model 8120

Rainger Linear - Effective 3/17

Description	Rev. #	Pg. #
6-5/8" Pipe - 113.3"[287.8cm] & 75.5"[191.8cm] Coupler Spacing		
Cart Span Truss Package Locations	03-17	8-4
Cart Span Truss Angle Packages	03-17	8-5
Pipe/Truss Rod Locations	03-17	8-6
Pipes/Truss Rods	03-17	8-7
Assembly Details	03-17	8-8
8-5/8" Pipe - 113.3"[287.8cm] & 75.5"[191.8cm] Coupler Spacing		
Cart Span Truss Package Locations	03-17	8-10
Cart Span Truss Angle Packages	03-17	8-11
Pipe/Truss Rod Locations	03-17	8-12
Pipes/Truss Rods	03-17	8-13
Assembly Details	03-17	8-14
10" Pipe - 30"[76.2cm] Coupler Spacing		
Cart Span Truss Package Locations	03-17	8-16
Cart Span Truss Angle Locations	03-17	8-17
Pipe/Truss Rod Locations	03-17	8-18
Pipes/Truss Rods	03-17	8-19
Assembly Details	03-17	8-20
Pipeline Accessories		
Pipe Drain	03-17	8-22
Flanges & Gaskets	03-17	8-23
Flex Hose & Hitch Components	08-18	8-24
Forged Hitch Ball	03-17	8-25

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MC81CS0037
08-18

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CART SPANS
6-5/8" PIPE
113.3" & 75.5" COUPLER SPACING

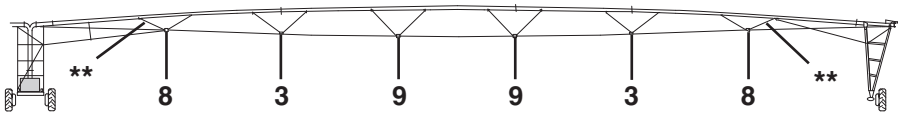


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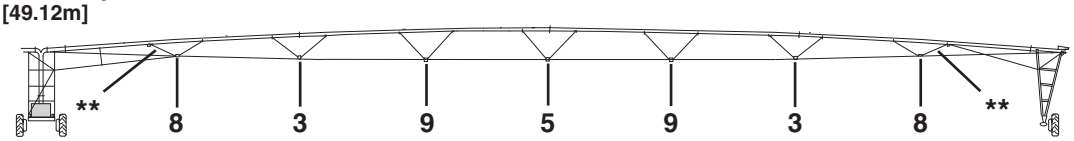
Functional Area	Assembly / Part	Rev# 03-17
6-5/8" Pipe - 113.3" & 75.5" Spacing	Cart Span Truss Package Locations	

MODEL 8120

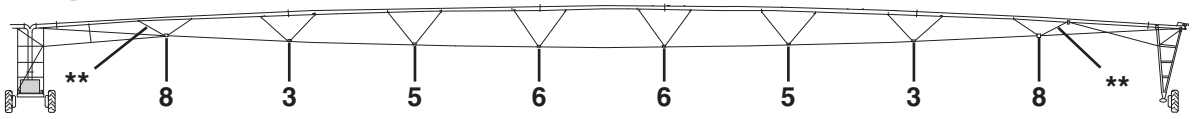
142.3' Span
[43.37m]



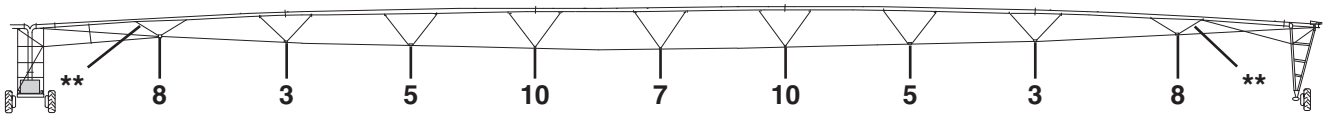
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]

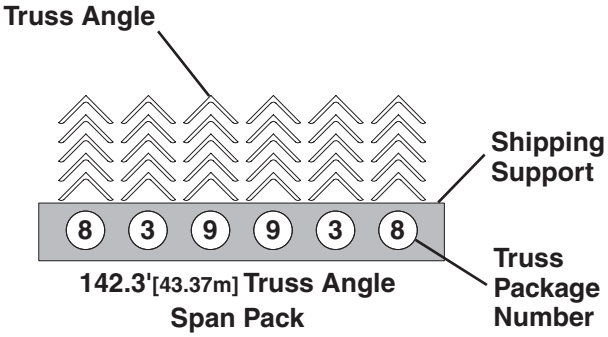


****NOTE: Location of longer diagonal w/I.D. hole.**

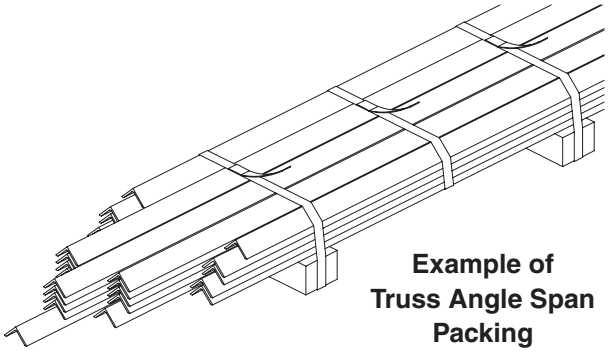
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MODEL 8120

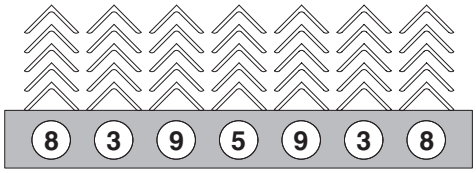
Reference Assembly Detail Page for Exact Location of Truss Packages



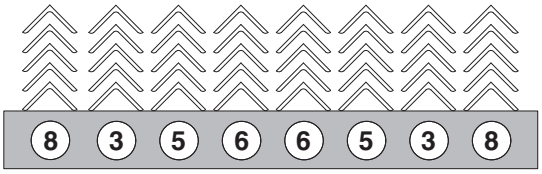
142.3'[43.37m] Truss Angle Span Pack (KA09283)



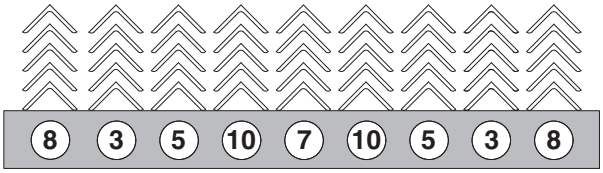
Example of Truss Angle Span Packing



161.2'[49.12m] Truss Angle Span Pack (KA09285)



180'[54.88m] Truss Angle Span Pack (KA09288)



198.9'[60.63m] Truss Angle Span Pack (KA09290)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

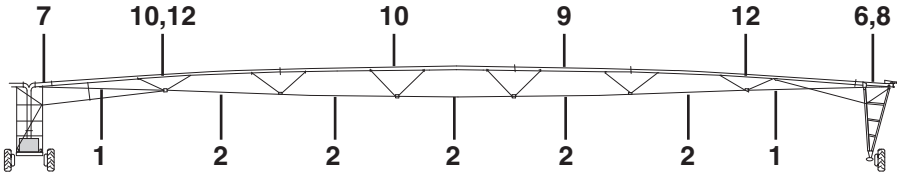
TRUSS PKG #	DIAGONAL			SPREADER		
		Overall Length			Overall Length	
	Part #	Inches	cm	Part #	Inches	cm
3	9360050	82.78"	[210.3]	9360051	92.69"	[235.4]
5	9360054	97.25"	[247.0]	9360055	115.03"	[292.2]
6	9360056	102.56"	[260.5]	9360057	122.94"	[312.3]
7	9360058	112.09"	[284.7]	9360059	136.84"	[347.6]
8	9360735**	63.36"	[160.9]	9360736	56.00"	[142.2]
	9360734	60.67"	[154.1]	-	-	
9	9360706	92.71"	[235.5]	9360707	108.16"	[274.7]
10	9360704	108.50"	[275.6]	9360705	131.63"	[334.3]

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

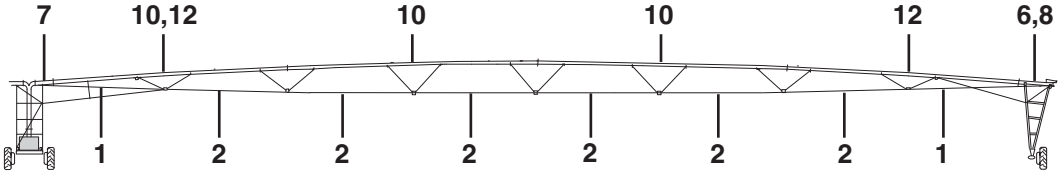
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MODEL 8120

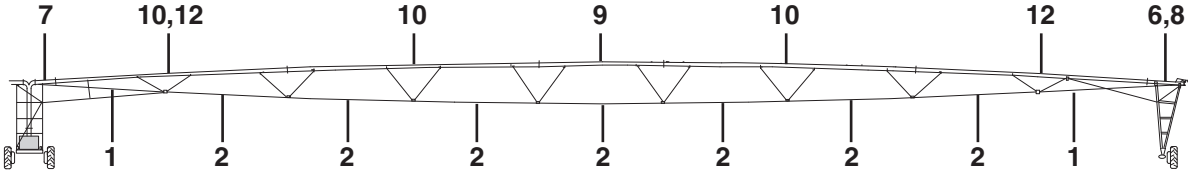
142.3' Span
[43.37m]



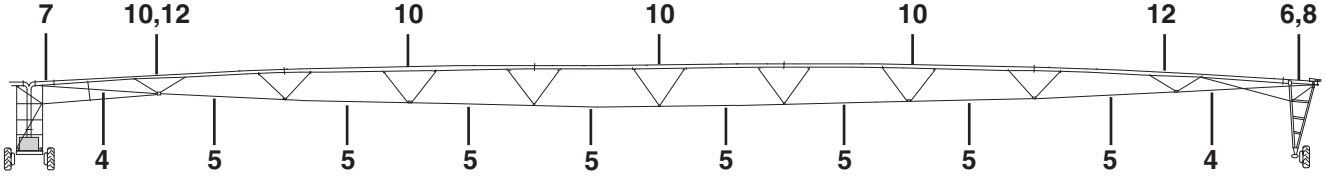
161.2' Span
[49.13m]



180' Span
[54.86m]



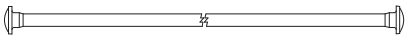
198.9' Span
[60.63m]



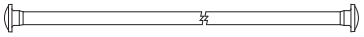
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MODEL 8120

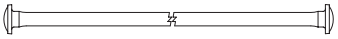
1 **22' - 2.84"[677.8cm] Head/Head** **Purple**



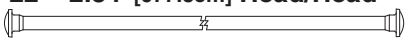
2 **18' - 8.28"[569.7cm] Head/Head** **Gold**



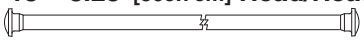
3 **16' - 10.56"[514.5cm] Head/Head**



4 **22' - 2.84"[677.8cm] Head/Head** **Brown**



5 **18' - 8.28"[569.7cm] Head/Head** **Flourescent Green**



6 **5' - 0.50"[153.7cm]**



7 **4' - 9.28"[145.5cm]**



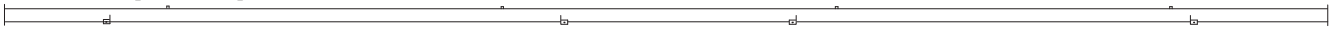
8 **5' - 0.50"[153.7cm]**



9 **18' - 10.41"[575.1cm]**



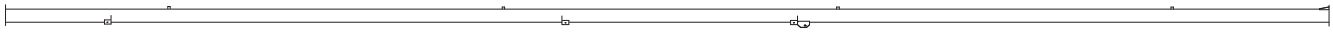
10 **37' - 9.00"[1150.6cm]**



11 **35' - 11.25"[1095.4cm]**



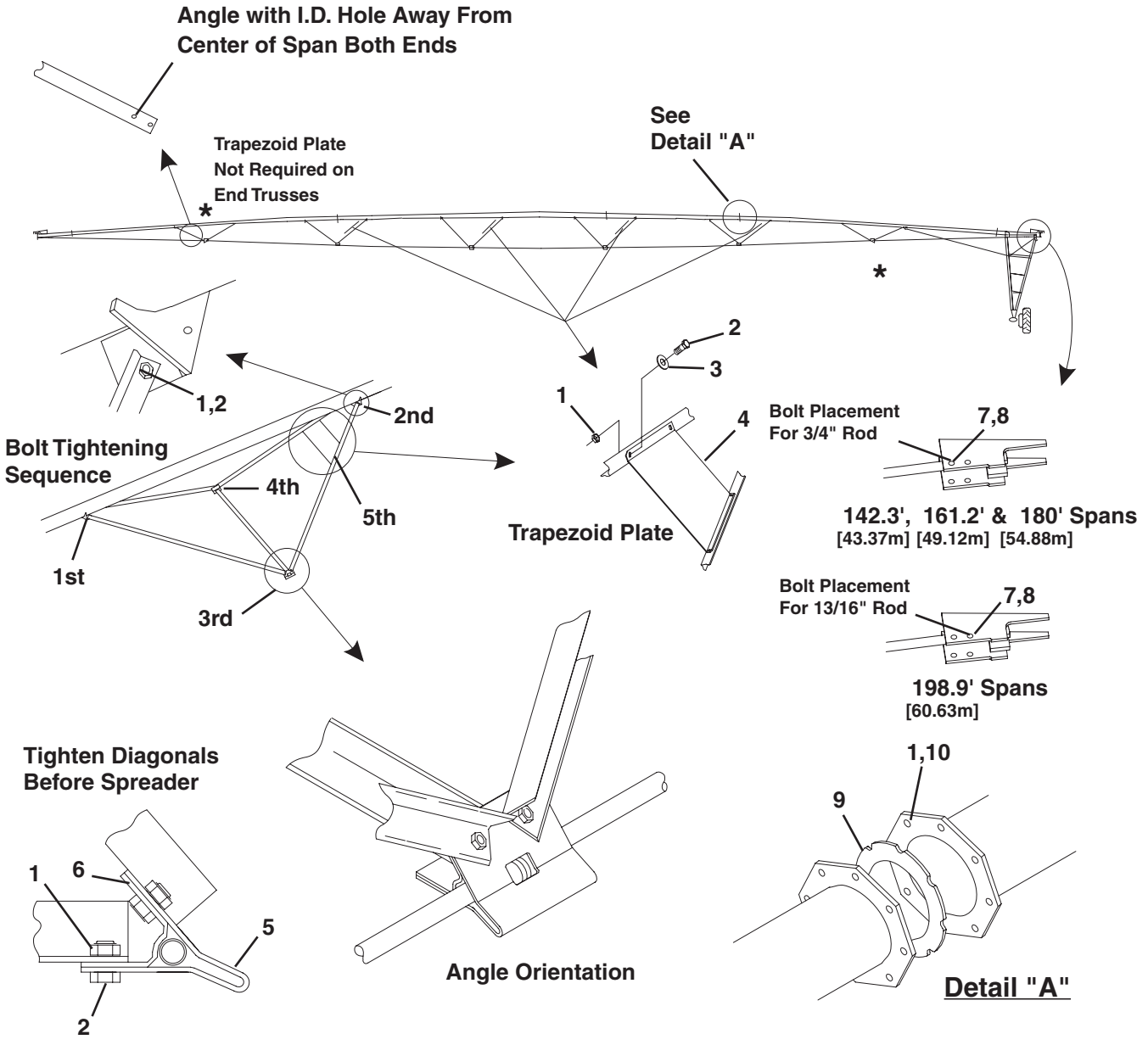
12 **37' - 9.00"[1150.6cm]**



Item	Description	Part #	
1	3/4"[19mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4"[19mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682	
3	3/4"[19mm] Intermediate Truss Rod (16'-10.56")[514.5cm]	9362511	
4	13/16"[20.6mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
5	13/16"[20.6mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719	
6	Swivel Stub Pipe (5'-0.50")[153.7cm]	9360675	
7	Last Stub Pipe (4'-9.47")[145.9cm]	9360676	
8	Fixed Stub Pipe (5'-0.50")[153.7cm]	9360677	
		113"[287.8cm]	75.5"[191.8cm]
9	19' Intermediate Pipe (18'-10.41")[575.1cm]	9360684	9360685
10	38' Intermediate Pipe (37'-9.00")[1150.6cm]	9360686	9360687
11	36' Intermediate Pipe (35'-11.25")[1095.4cm]	-	9362501
12	38' Tower Pipe (37'-9.00")[1150.6cm]	9363951	9363952

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MODEL 8120



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	6-5/8" Gasket	0991107
10	1/2" x 2" Cap Screw	0161024

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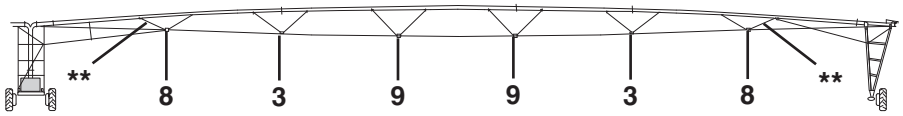
CART SPANS
8-5/8" PIPE
113.3" & 75.5" COUPLER SPACING



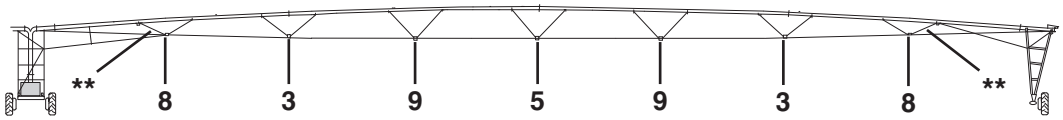
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MODEL 8120

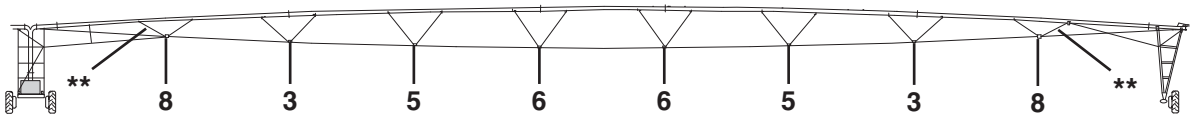
142.3' Span
[43.37m]



161.2' Span
[49.12m]



180' Span
[54.86m]

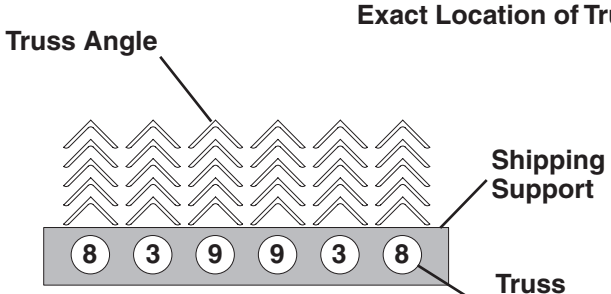


****NOTE: Location of longer diagonal w/I.D. hole.**

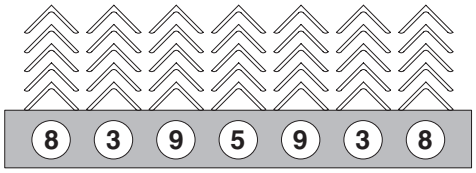
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MODEL 8120

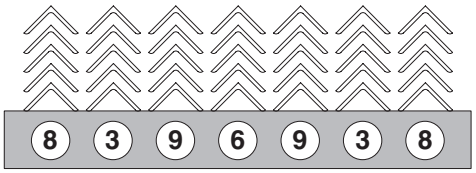
Reference Assembly Detail Page for Exact Location of Truss Packages



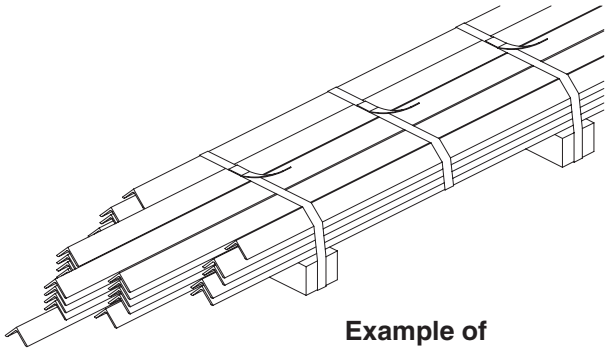
142.3'[43.37m] Truss Angle Span Pack (KA09283)



161.2'[49.12m] Truss Angle Span Pack (KA09285)



180'[54.86m] Truss Angle Span Pack (KA09285)



Example of Truss Angle Span Packing

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

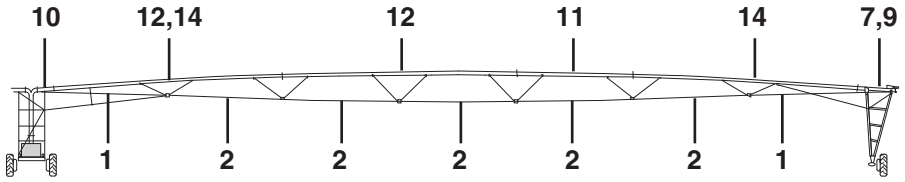
TRUSS PKG #	DIAGONAL			SPREADER		
	Part #	Overall Length		Part #	Overall Length	
		Inches	cm		Inches	cm
3	9360050	82.78"	[210.3cm]	9360051	92.69"	[235.4cm]
5	9360054	97.25"	[247.0cm]	9360055	115.03"	[292.2cm]
6	9360056	102.56"	[260.5cm]	9360057	122.94"	[2312.3cm]
8	9360735**	63.36"	[160.9cm]	9360736	56.00"	[142.2cm]
	9360734	60.67"	[154.1cm]	-	-	-
9	9360706	92.71"	[235.5cm]	9360707	108.16"	[274.7cm]

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

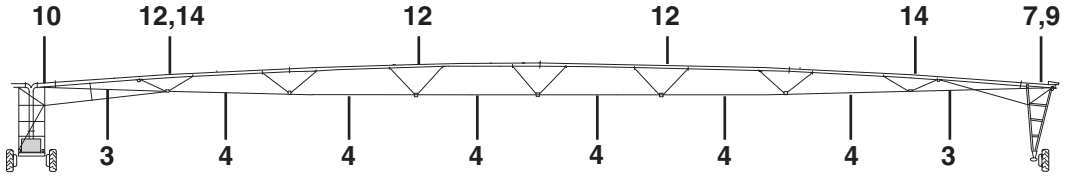
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MODEL 8120

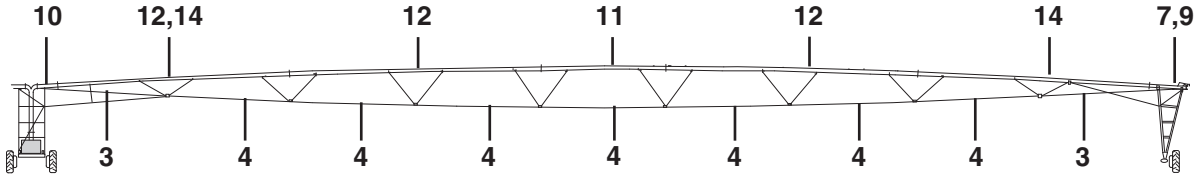
142.3' Span
[43.37m]



161.2' Span
[49.12m]



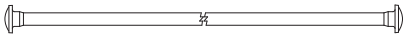
180' Span
[54.86m]



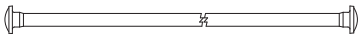
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MODEL 8120

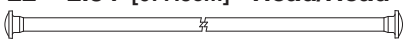
1 **22' - 2.84"[677.8cm] Head/Head Purple**



2 **18' - 8.28"[567.7cm] Head/Head Gold**



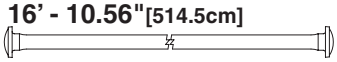
3 **22' - 2.84"[677.8cm] Head/Head Brown**



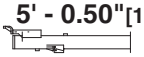
4 **18' - 8.28"[567.7cm] Head/Head Flourescent Green**



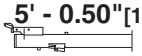
5 **16' - 10.56"[514.5cm]**



6 **5' - 0.50"[153.7cm] ***



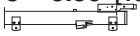
7 **5' - 0.50"[153.7cm]**



8 **5' - 0.50"[153.7cm] ***



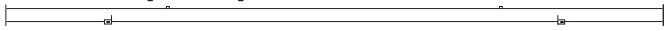
9 **5' - 0.50"[153.7cm]**



10 **4' - 9.41"[145.8cm]**



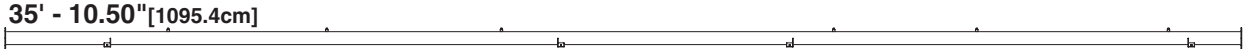
11 **18' - 10.41"[575.1cm]**



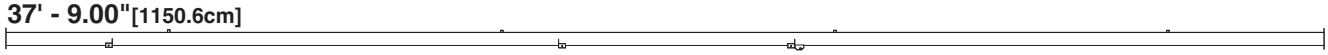
12 **37' - 9.00"[1150.6cm]**



13 **35' - 10.50"[1095.4cm]**



14 **37' - 9.00"[1150.6cm]**

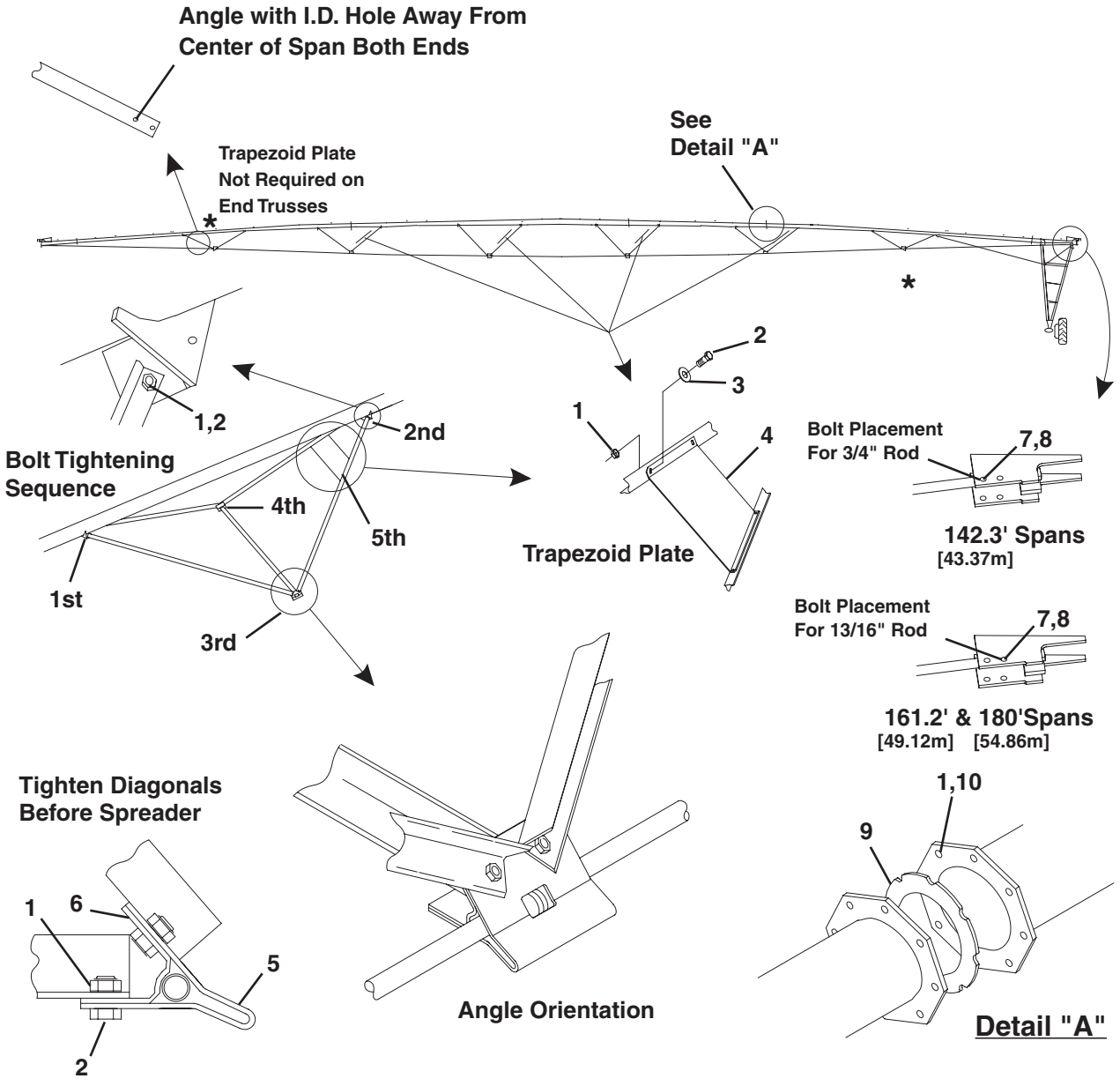


Item	Description	Part #	
1	3/4" Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360682	
3	13/16" Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
4	13/16" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360719	
5	13/16" Intermediate Truss Rod (16'-10.56")[514.5cm]	9362510	
*6	Reverse Transition Stub Pipe (5'-0.50")[153.7cm]	9360810	
7	Swivel Stub Pipe (5'-0.50")[153.7cm]	9360693	
*8	Transition Stub Pipe (5'-0.50")[153.7cm]	9360696	
9	Fixed Stub Pipe (5'-0.50")[153.7cm]	9360694	
**10	Cart Stub Pipe (4'-9.41") [145.8cm]	9360801	
		113"[287.8cm]	75.5"[191.8cm]
11	19' Intermediate Pipe (18'-10.41")[575.1cm]	9360700	9360701
12	38' Intermediate Pipe (37'-9")[1150.6cm]	9360702	9360703
13	36' Intermediate Pipe (35'-10.50")[1095.4cm]	-	9362502
14	38' Tower Pipe (37'-9")[1150.6cm]	9363956	9363957

*** NOTE: Transition Stubs consist of 6-5/8" pipe with 8-5/8" Flange.**
**** NOTE: Cart Stub Pipe used ONLY on Rainger Cart.**

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MODEL 8120



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	8-5/8" Gasket	0994500
10	1/2" x 2" Cap Screw	0161024

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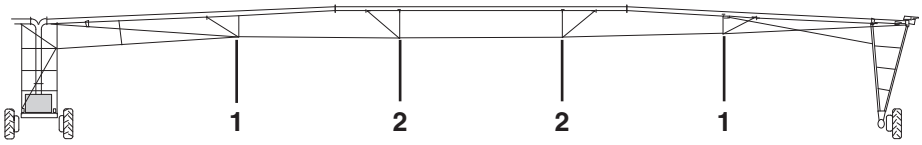
CART SPANS
10" PIPE
30" COUPLER SPACING



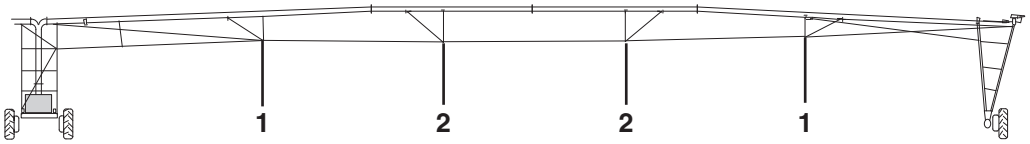
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MODEL 8120

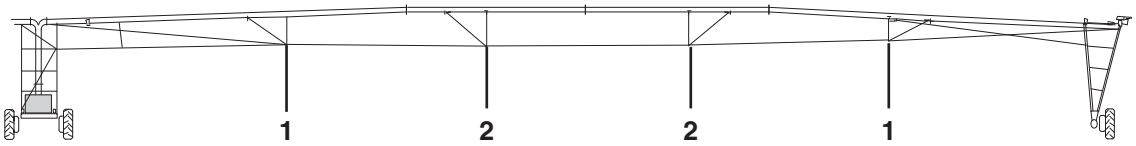
109' Span



120' Span



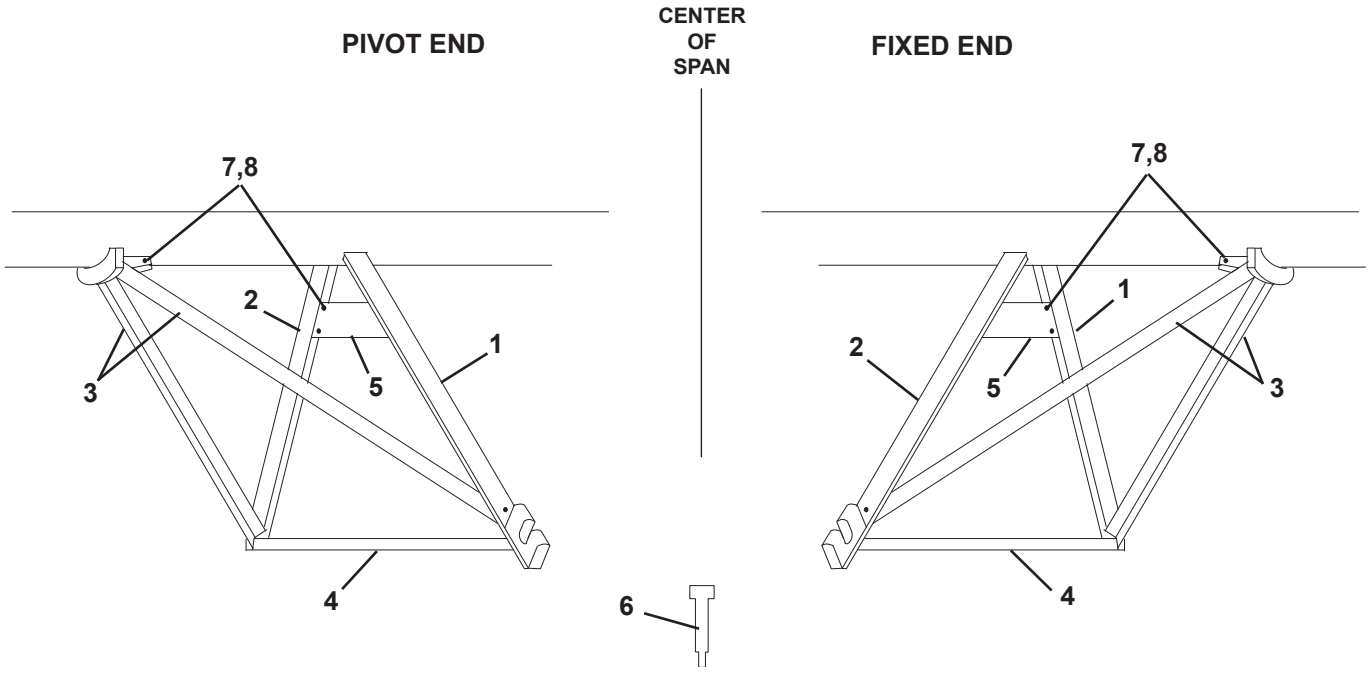
128' Span



ITEM #	TRUSS PKG #
1	KA00701
2	KA00702

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MODEL 8120



Truss Pkg. #	Right Hand Truss Angle		Left Hand Truss Angle		Diagonal		Spreader	
	Part #	Length	Part #	Length	Part #	Length	Part #	Length
KA00701	1780322	47.78"	1780323	47.78"	1780344	64.39"	1780334	68.19"
KA00702	1780350	73.65"	1780351	73.65"	1780353	84.00"	1780352	102.16"

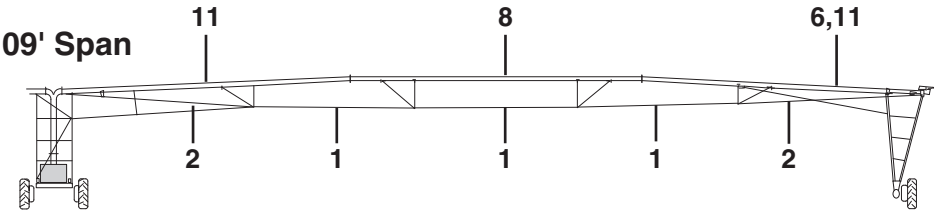
NOTE: All angle dimensions are overall length (end to end).

ITEM	DESCRIPTION	PART #
1	Right Hand Truss Angle	See Chart
2	Left Hand Truss Angle	See Chart
3	Diagonal	See Chart
4	Spreader	See Chart
5	Gusset Plate	1780424
6	Keeper Tab	1701850
7	1/2" Lock Nut	0133005
8	1/2" x 1-1/4" Cap Screw	0161027

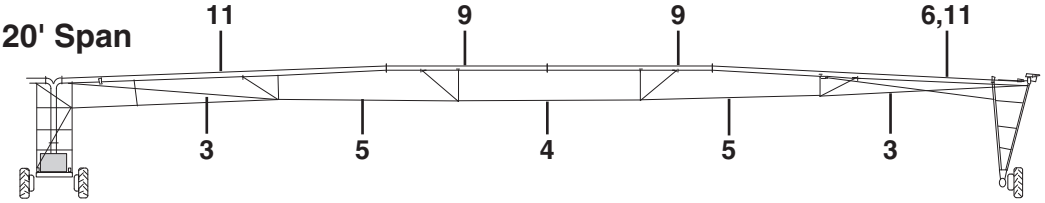
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MODEL 8120

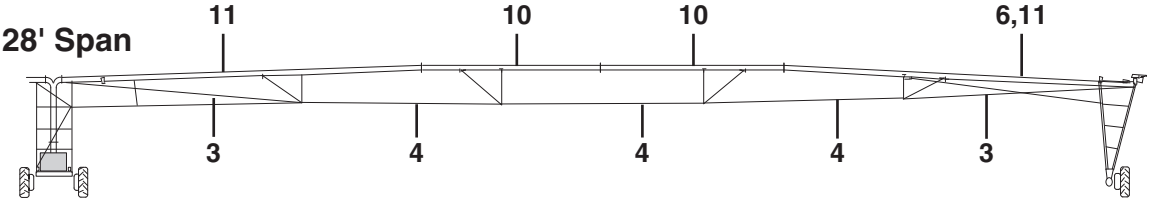
109' Span



120' Span

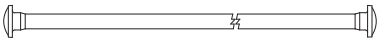


128' Span



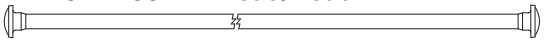
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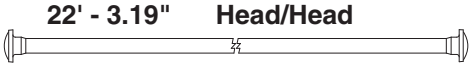
MODEL 8120

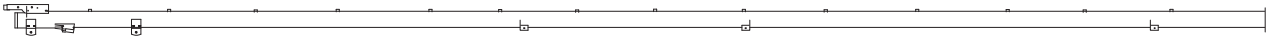
1 **20' - 2.25" Head/Head**  **No Color**

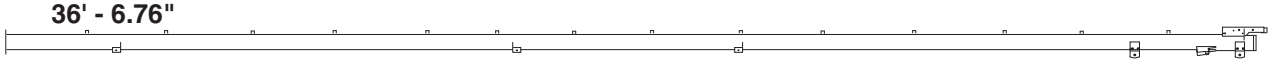
2 **22' - 6.31" Head/Head**  **No Color**

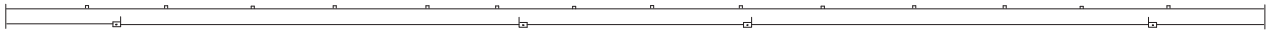
3 **22' - 6.31" Head/Head**  **No Color**

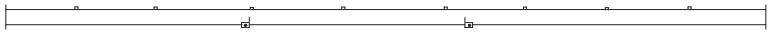
4 **26' - 2.56" Head/Head**  **No Color**

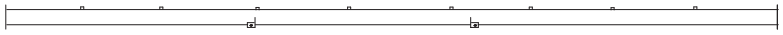
5 **22' - 3.19" Head/Head**  **Red**

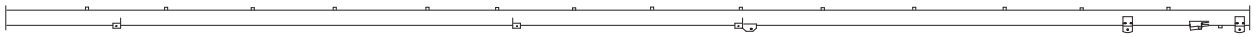
6 **36' - 6.76"** 

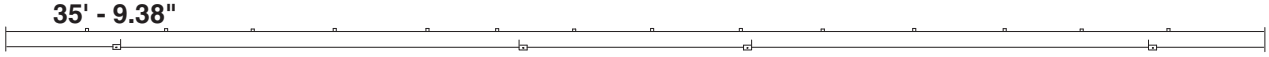
7 **36' - 6.76"** 

8 **36' - 6.67"** 

9 **23' - 4.12"** 

10 **27' - 3.44"** 

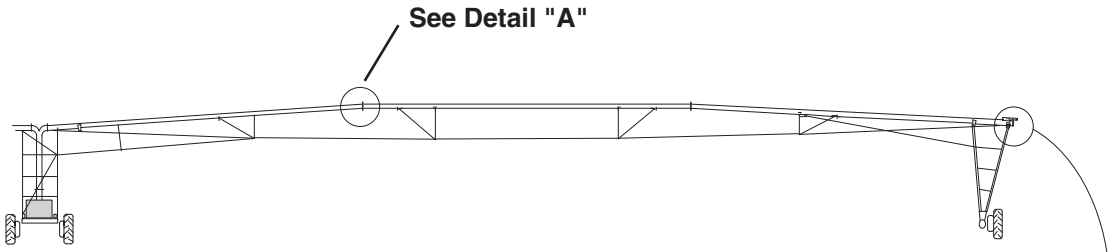
11 **35' - 9.38"** 

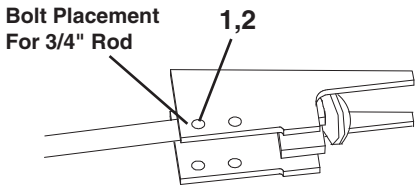
12 **35' - 9.38"** 

ITEM	DESCRIPTION	PART #
1	3/4" Intermediate Truss Rod (20'-2.25")	1780434
2	3/4" Tower Truss Rod (22'-6.31")	1780378
3	7/8" Tower Truss Rod (22'-6.31")	1780574
4	7/8" Intermediate Truss Rod (26'-2.56")	1780578
5	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
6	Swivel Pipe (36'-6.76")	1781558
7	Fixed Pipe (36'-6.76")	1781559
8	Inter. Pipe 109' Span (36'-6.67")	1781561
9	Inter. Pipe 120' Span (23'-4.12")	1781678
10	Inter. Pipe 128' Span (27'-3.44")	1781562
11	Transition/Inlet Pipe (35'-9.38")	1781560
12	Pivot Pipe (35'-9.38")	1781557

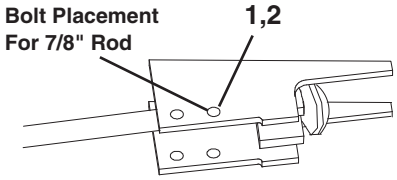
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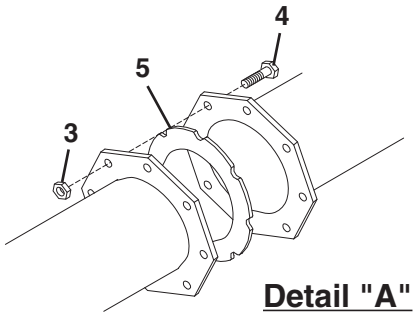




109' Spans



128' Spans



Detail "A"

ITEM	DESCRIPTION	PART #
1	3/8" Lock Nut	0133006
2	3/8" x 3" Cap Screw	0161037
3	1/2" Lock Nut	0133005
4	1/2" x 2" Cap Screw	0161024
5	10" Gasket	0992385

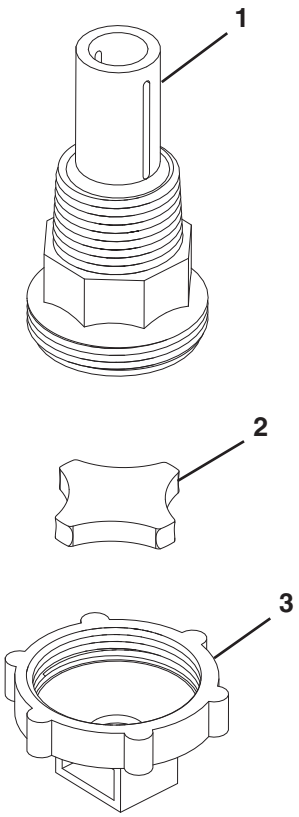
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PIPELINE ACCESSORIES



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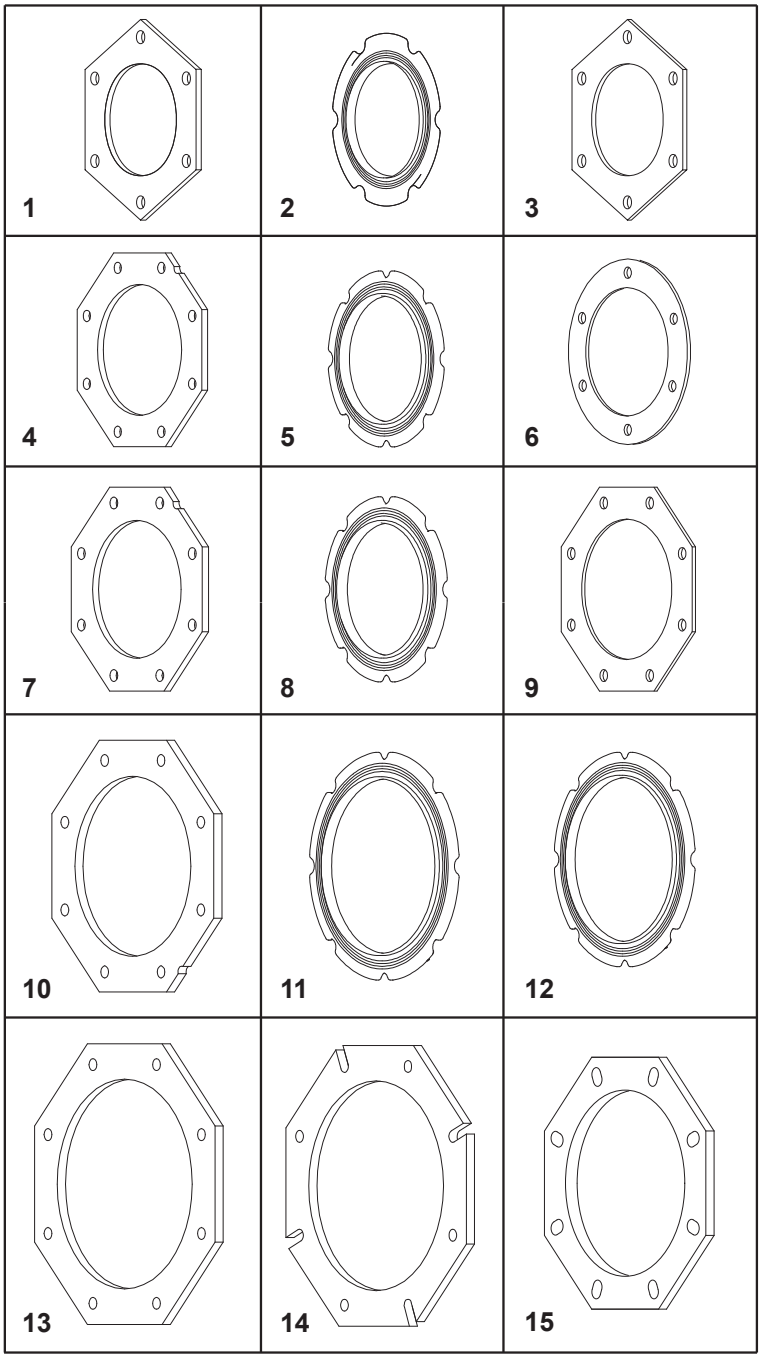
MODEL 8120



ITEM	DESCRIPTION	PART #
1	Upper Drain Body	0246170
	Upper Drain Body Alum (Not Shown)	0232023
2	Drain Seal	0232568
3	Lower Drain Body	0232004

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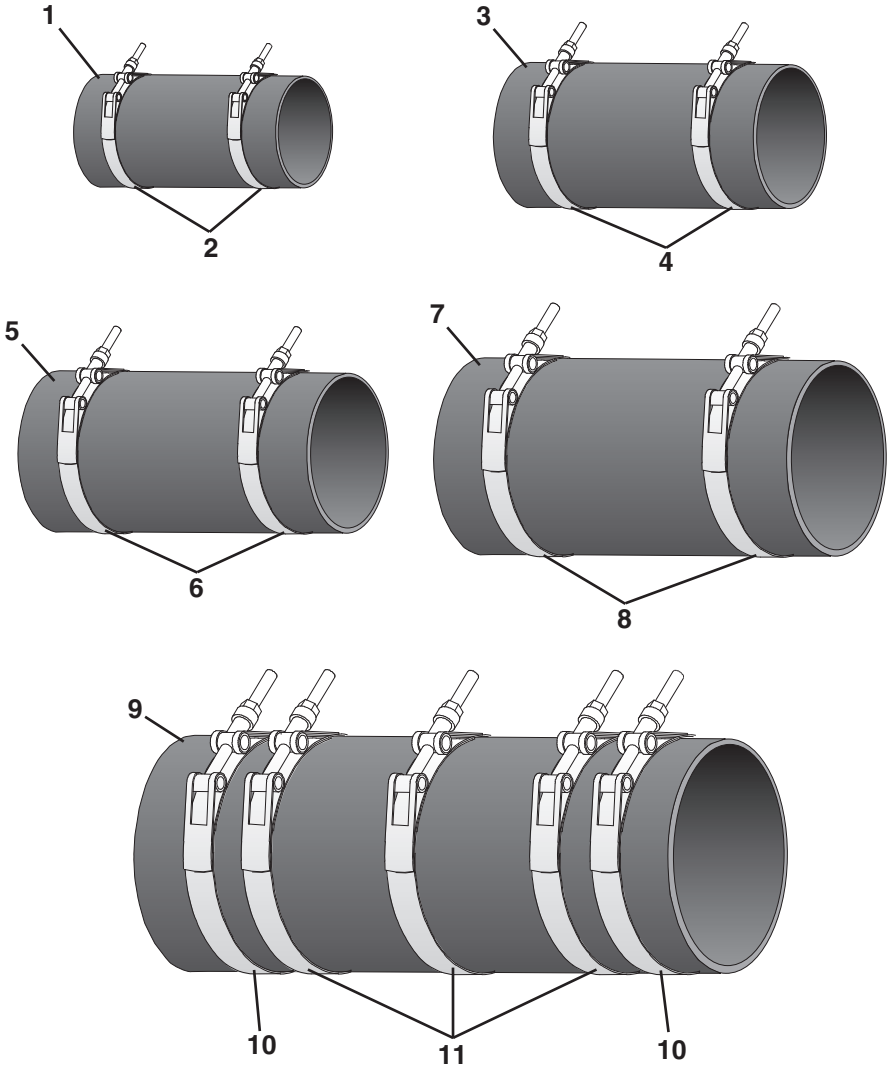
MODEL 8120



ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	5” Pipe Flange	9360910	9	6-5/8" Flat Rubber Gasket	0992211
2	5” Plastic Gasket	0996071	10	8-5/8" Pipe Flange	9360121
3	5” Flat Rubber Gasket	0996069	11	8-5/8" Pipe Gasket	0994500
4	6" to 6-5/8" Transition Flange	1750481	12	8” Pipe Gasket	0992439
5	6" Pipe Gasket	0994469	13	10" Pipe Flange	1702309
6	6" Flat Rubber Gasket	0991016	14	10" Flat Rubber Gasket	0992385
7	6-5/8" Pipe Flange	1800010	15	8" & 8-5/8” Univ. Flat Rubber Gasket	0996566
8	6-5/8" Pipe Gasket	0991107			

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MODEL 8120

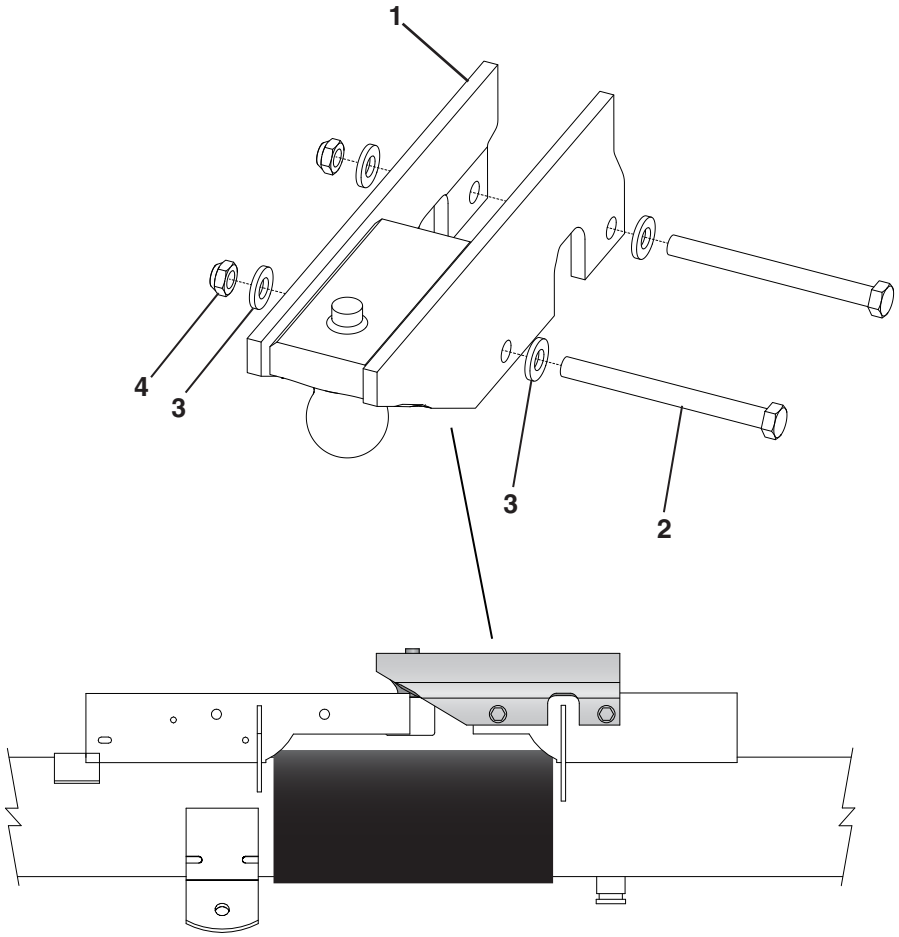


ITEM	DESCRIPTION	PART #
1	5” Flex Hose	0996080
2	5” Flex Joint Clamp	0995199
3	6" Flex Hose	0991187
4	6" Flex Joint Clamp	0991186
5	6-5/8" Flex Hose	1800318
	6-5/8" Flex Boot - Rough Ground	0996389
6	6-5/8" Flex Joint Clamp	0991087
7	8-5/8" Flex Hose	0994520
	8-5/8" Flex Boot - Rough Ground	0996390
8	8-5/8" Flex Joint Clamp	0994507
9	10" Flex Hose	1702326
	10" Flex Boot - Rough Ground	0996663
10	10" T-Bolt Clamp	0992386
11	10" Flex Joint Clamp	0992441

5" Span Flex Hose and Clamps Kit	KA02733
6" Span Flex Hose and Clamps Kit	KA02734
6-5/8" Span Flex Hose and Clamps Kit	KA02735
8-5/8" Span Flex Hose and Clamps Kit	KA02737

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MODEL 8120



ITEM	DESCRIPTION	PART #
1	Forged Hitch	9362529
2	1/2" x 5-1/2" Cap Screw	0161018
3	1/2" Flat Washer	0142025
4	1/2" Lock Nut	0133005
	Retrofit Forged Hitch Ball Kit	0000F71

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PolySpan® - CART SPANS

Rainger Linear - Effective 3/17

Description	Rev. #	Pg. #
MODEL 8000P		
6-5/8" Pipe - 30"[76.2cm], 60"[152.4cm] & 108"[274.3cm] Coupler Spacing		
Cart Span Truss Package Locations	03-17	9-4
Cart Span Truss Angle Packages	03-17	9-5
Pipe/Truss Rod Locations	03-17	9-6
Pipes/Truss Rods	03-17	9-7
Assembly Details	03-17	9-8
8-5/8" Pipe - 30"[76.2cm], 60"[152.4cm] & 108"[274.3cm] Coupler Spacing		
Cart Spans Truss Package Locations	03-17	9-10
Cart Spans Truss Angle Packages	03-17	9-11
Pipe/Truss Rod Locations	03-17	9-12
Pipes/Truss Rods	03-17	9-13
Assembly Details	03-17	9-14
Transition Details Model 8000P	12-18	9-15
Zero Length Transition - Poly	03-17	9-16
MODEL 8120P		
6-5/8" Pipe - 75.5"[191.8cm], 113"[287.0cm] Coupler Spacing		
Cart Span Truss Package Locations	03-17	9-18
Cart Span Truss Angle Packages	03-17	9-19
Pipe/Truss Rod Locations	03-17	9-20
Pipes/Truss Rods	03-17	9-21
Assembly Details	03-17	9-22
8-5/8" Pipe - 75.5"[191.8cm], 113"[287.0cm] Coupler Spacing		
Cart Span Truss Package Locations	03-17	9-24
Cart Span Truss Angle Packages	03-17	9-25
Pipe/Truss Rod Locations	03-17	9-26
Pipes/Truss Rods	03-17	9-27
Assembly Details	03-17	9-28
Transition Details	12-18	9-29
Zero Length Transition - Poly	03-17	9-30
Standard Sprinkler Drop Detail	03-17	9-31
Optional Sprinkler Drop Detail	03-17	9-32
Flex Hose, Hitch & Coupler Components	12-18	9-33
MODEL 8000P - EXPORT		
6-5/8" Export Pipe - 90"[228.6cm] Coupler Spacing		
Cart Span Truss Package Locations	03-17	9-36
Cart Span Truss Angle Packages	03-17	9-37
Pipe/Truss Rod Locations	03-17	9-38
Pipes/Truss Rods	03-17	9-39
Assembly Details	03-17	9-40

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Description	Rev. #	Pg. #
8-5/8" Export Pipe - 90"[228.6cm] Coupler Spacing		
Cart Span Truss Package Locations	03-17	9-42
Cart Span Truss Angle Packages	03-17	9-43
Pipe/Truss Rod Locations	03-17	9-44
Pipes/Truss Rods	03-17	9-45
Assembly Details	03-17	9-46

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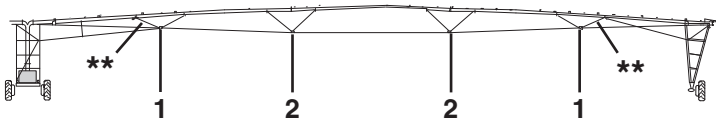
CART PolySpans
6-5/8" PIPE
30"[76.2cm], 60"[152.4cm] & 108"[274.3cm]
COUPLER SPACING



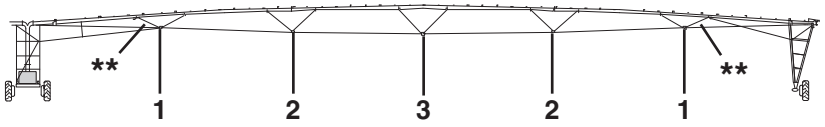
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MODEL 8000P

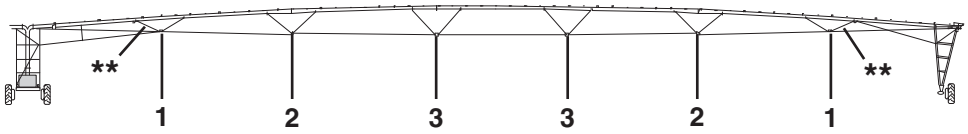
115' Span
[35.05m]



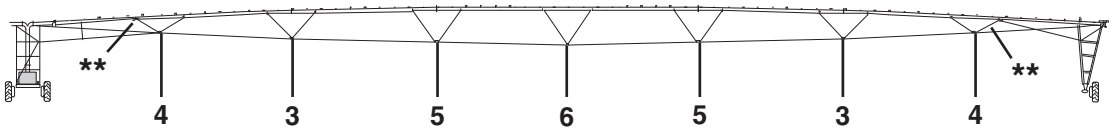
135' & 140' Span
[41.15m] & [42.67m]



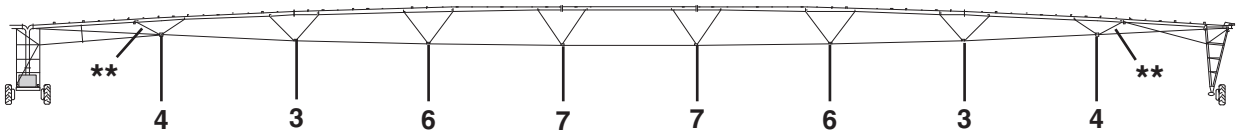
160' Span
[48.77m]



180',185' & 187' Span
[54.86m][56.39m] & [57.00m]



205' Span
[62.48m]

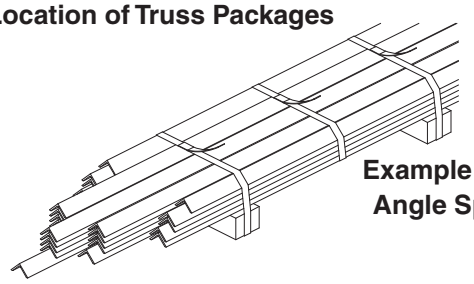


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

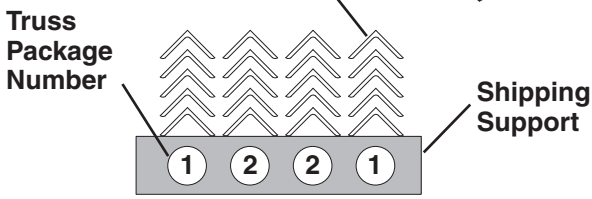
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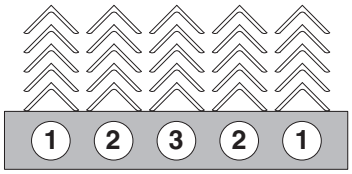
Reference Assembly Detail Page for Exact Location of Truss Packages



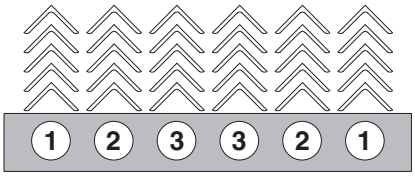
Example of 135' Truss Angle Span Packing



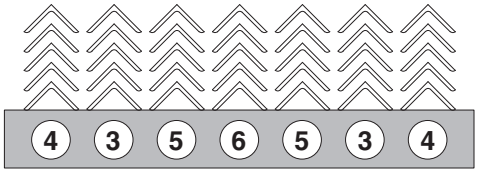
115'[35.05m] Truss Angle Span Pack (KA09116)



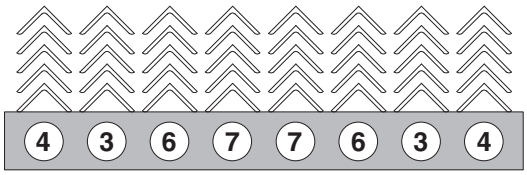
135'[41.15m] & 140'[42.67m] Truss Angle Span Pack (KA09023)



160'[48.77m] Truss Angle Span Pack (KA09024)



180'[54.86m], 185'[56.39m] & 187'[57.00m] Truss Angle Span Pack (KA09025)



205'[62.48m] Truss Angle Span Pack (KA09026)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

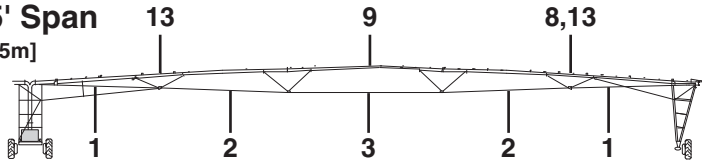
TRUSS PKG #	DIAGONAL			SPREADER		
		OVERALL LENGTH			OVERALL LENGTH	
	PART #	INCHES	cm	PART #	INCHES	cm
1	9360046**	58.42"	[148.4]	9360047	44.69"	[113.5]
	9360073	55.38"	[140.7]	-	-	-
2	9360048	72.97"	[185.3]	9360049	76.44"	[194.2]
3	9360050	82.78"	[210.3]	9360051	92.69"	[235.4]
4	9360052**	61.68"	[156.7]	9360053	52.25"	[132.7]
	9360074	58.81"	[148.6]	-	-	-
5	9360054	97.25"	[247.0]	9360055	115.03"	[292.2]
6	9360056	102.56"	[260.5]	9360057	122.94"	[312.3]
7	9360058	112.09"	[284.7]	9360059	136.84"	[347.6]

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

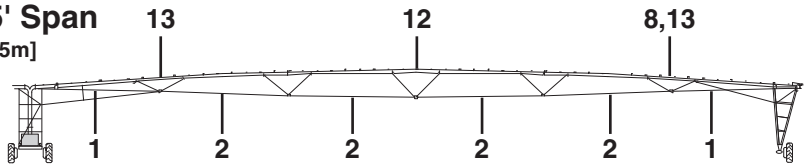
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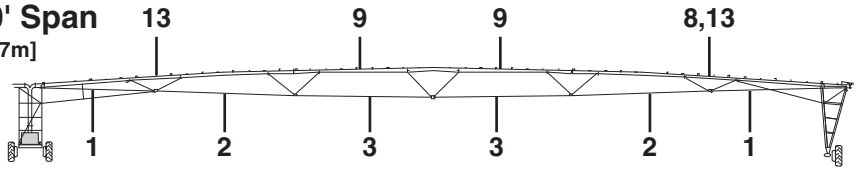
115' Span
[35.05m]



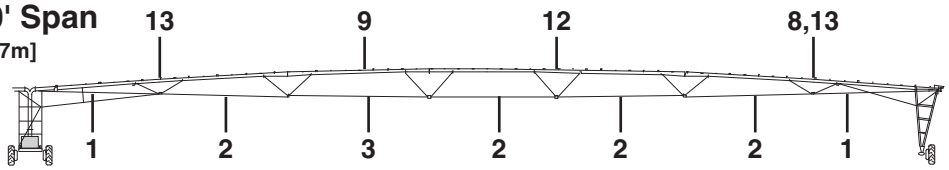
135' Span
[41.15m]



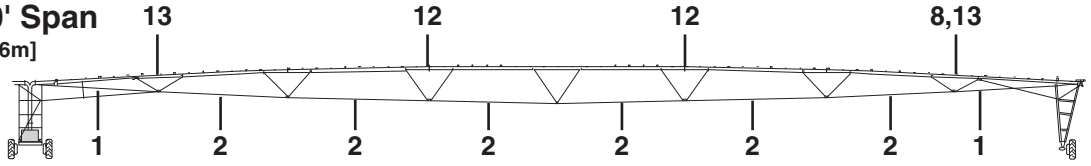
140' Span
[42.67m]



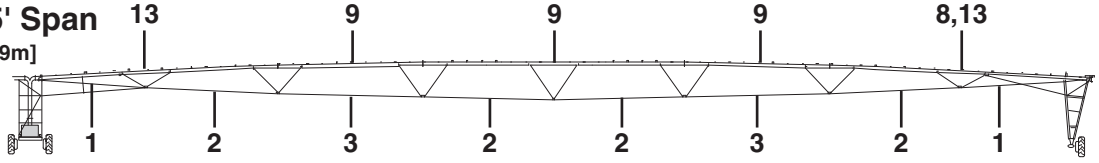
160' Span
[48.77m]



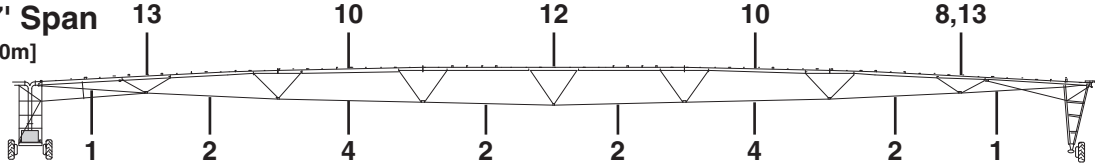
180' Span
[54.86m]



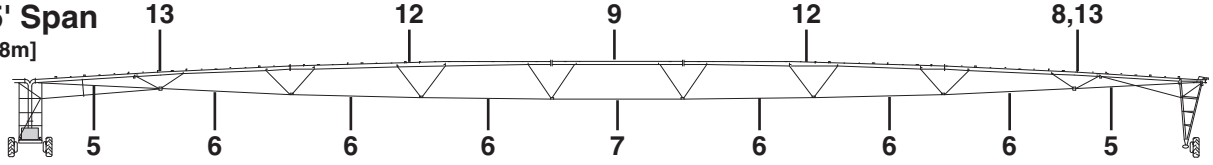
185' Span
[56.39m]



187' Span
[57.00m]



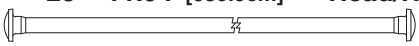
205' Span
[62.48m]



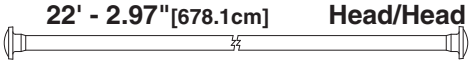
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MODEL 8000P

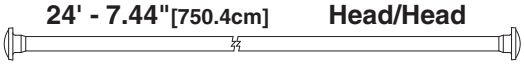
1 **20' - 11.94"[639.9cm] Head/Head Yellow**



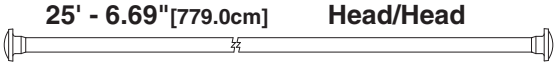
2 **22' - 2.97"[678.1cm] Head/Head No Color**



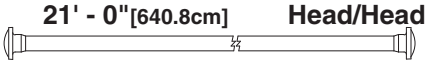
3 **24' - 7.44"[750.4cm] Head/Head Blue**



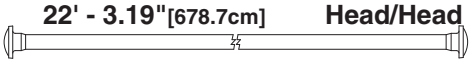
4 **25' - 6.69"[779.0cm] Head/Head Black**



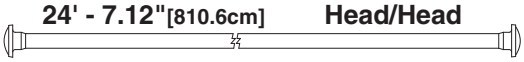
5 **21' - 0"[640.8cm] Head/Head Orange**



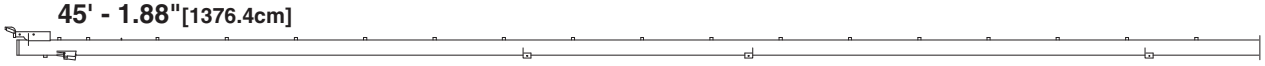
6 **22' - 3.19"[678.7cm] Head/Head Red**



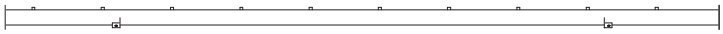
7 **24' - 7.12"[810.6cm] Head/Head Green**



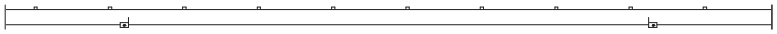
8 **45' - 1.88"[1376.4cm]**



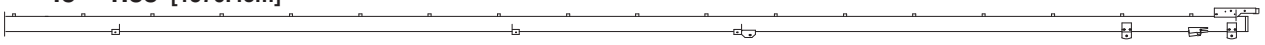
9 **24' - 10.00"[756.9cm]**



10 **25' - 9.25"[785.5cm]**



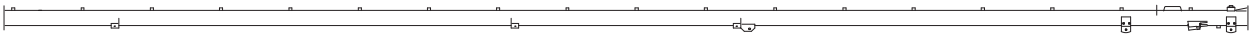
11 **45' - 1.88"[1376.4cm]**



12 **44' - 10.75"[1368.4cm]**



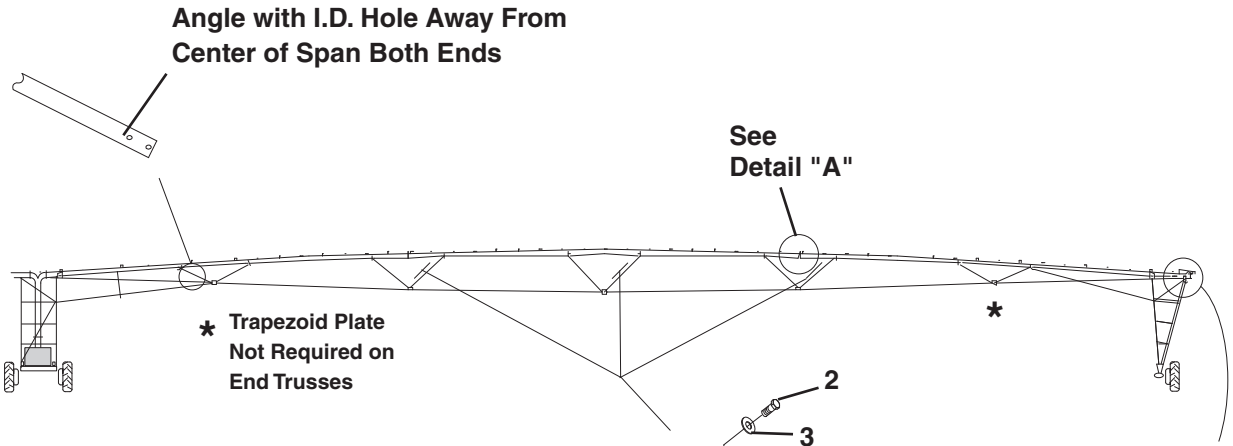
13 **44' - 10.75"[1368.4cm]**

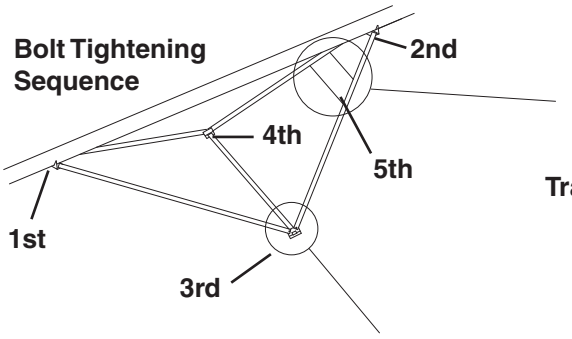


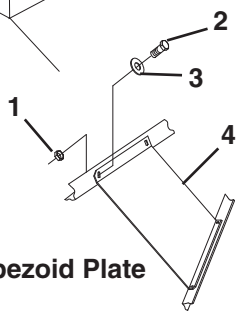
ITEM	DESCRIPTION	Part #		
1	3/4" Tower Truss Rod (20' - 11.94")	9360060		
2	3/4" Standard Intermediate Truss Rod (22' - 2.97")	9360061		
3	3/4" Intermediate Truss Rod (24' - 7.44")	9360062		
4	3/4" Intermediate Truss Rod (25' - 6.69")	9360063		
5	13/16" Tower Truss Rod (21' - 0")	9360064		
6	13/16" Standard Intermediate Truss Rod (22' - 3.19")	9360065		
7	13/16" Intermediate Truss Rod (24' - 7.12")	9360066		
		108" Spacing	60" Spacing	30" Spacing
8	Swivel Pipe	9362683	9362701	9362768
9	25' Intermediate Pipe	9362677	9362705	9362762
10	26' Intermediate Pipe	-	9362709	9362786
11	Fixed Pipe	9362685	9362703	9362770
12	45' Intermediate Pipe	9362679	9362707	9362764
13	Last Pipe	9362687	9362711	9362772

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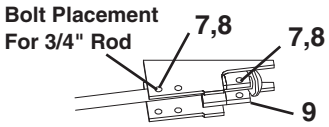
MODEL 8000P





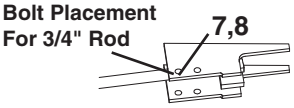


Trapezoid Plate



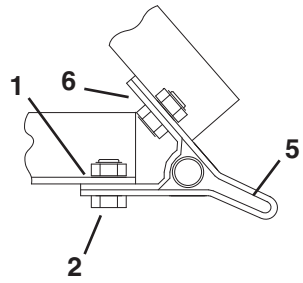
115', 135', 140', & 160' Spans

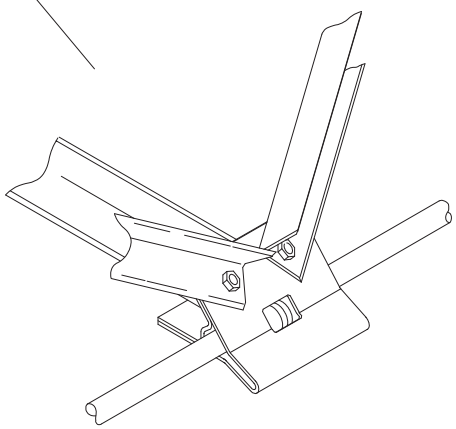
[35.05m][41.15m][42.67m] [48.77m]



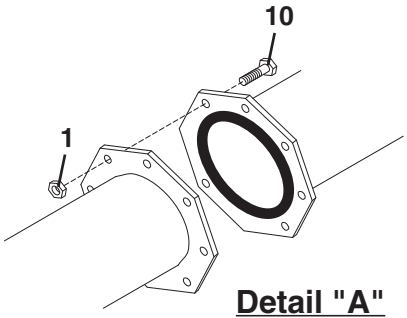
180', 185' & 187' Spans

[54.86m][56.39m] [57.00m]





Angle Orientation



Detail "A"
(no Gasket req'd)

ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	Truss Rod Spacer	9360080
10	1/2" x 2-1/2" Cap Screw	0161023

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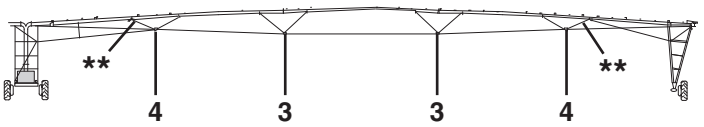
CART PolySpans
8-5/8" PIPE
30"[76.2cm], 60"[152.4cm] & 108"[274.3cm]
COUPLER SPACING



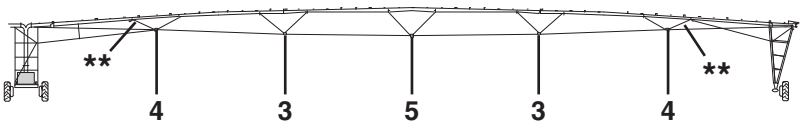
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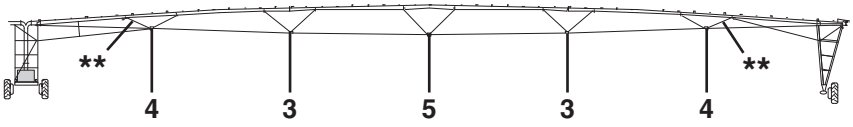
115' Span
[35.05m]



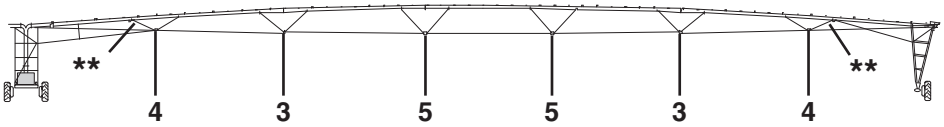
135' Span
[41.15m]



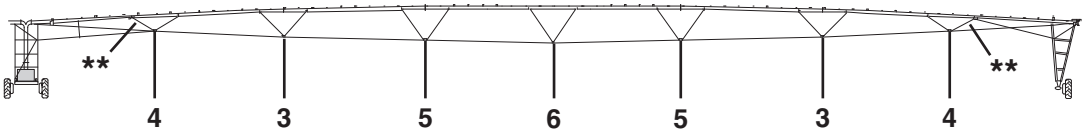
140' Span
[42.67m]



160' Span
[48.77m]



180' Span
[54.86m]

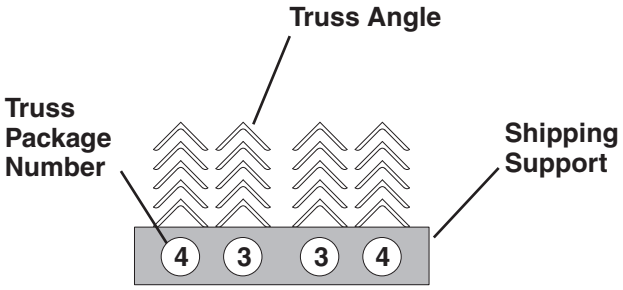


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

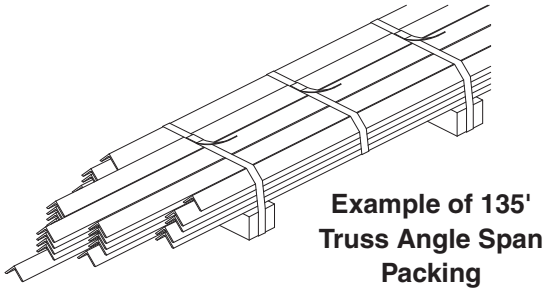
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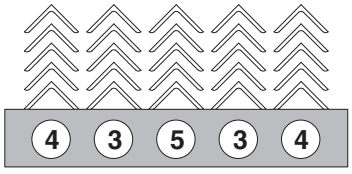
Reference Assembly Detail Page for Exact Location of Truss Packages



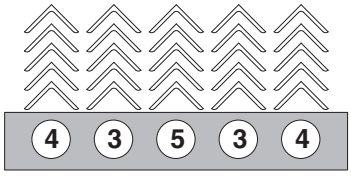
115'[35.05m] Truss Angle Span Pack (KA09117)



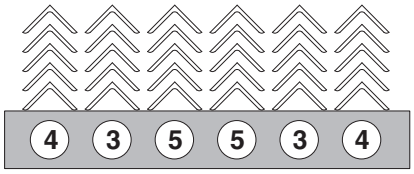
Example of 135' Truss Angle Span Packing



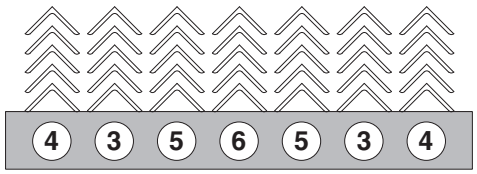
135'[41.15m] Truss Angle Span Pack (KA09047)



140'[42.67m] Truss Angle Span Pack (KA09047)



160'[48.77m] Truss Angle Span Pack (KA09050)



180'[54.86m] Truss Angle Span Pack (KA09025)

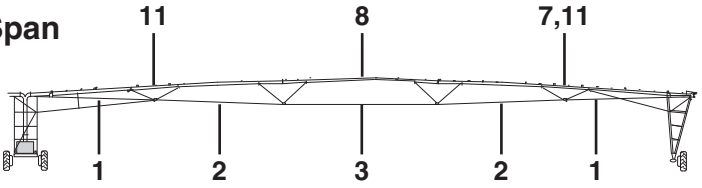
NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

TRUSS PKG #	DIAGONAL			SPREADER		
		OVERALL LENGTH			OVERALL LENGTH	
	PART #	INCHES	cm	PART #	INCHES	cm
3	9360050	82.78"	[210.3]	9360051	92.69"	[235.4]
4	9360052**	61.68"	[156.7]	9360053	52.25"	[132.7]
	9360074	58.81"	[148.6]	-	-	-
5	9360054	97.25"	[247.0]	9360055	115.03"	[292.2]
6	9360056	102.56"	[260.5]	9360057	122.94"	[312.3]

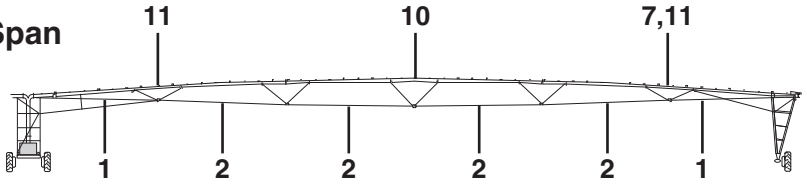
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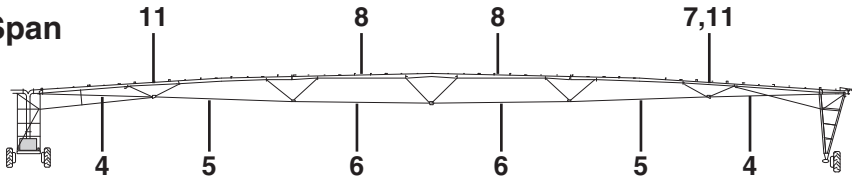
115' Span
[35.05m]



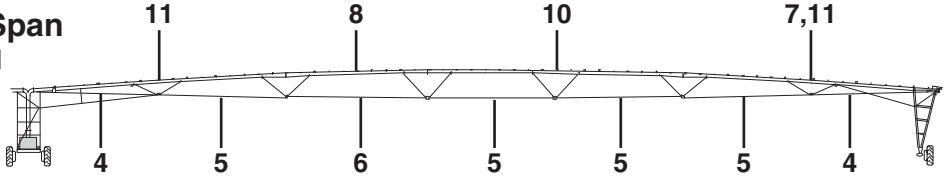
135' Span
[41.15m]



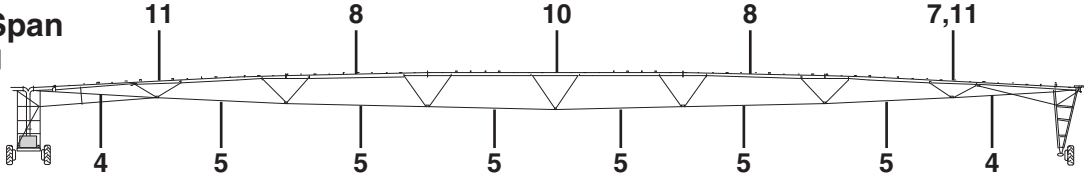
140' Span
[42.67m]



160' Span
[48.77m]



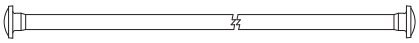
180' Span
[54.86m]



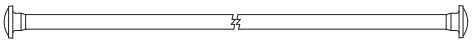
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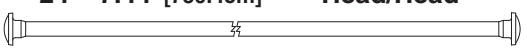
1 **20' - 11.94"[639.9cm] Head/Head Yellow**



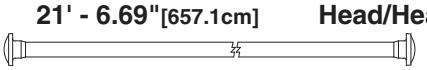
2 **22' - 2.97"[678.1cm] Head/Head No Color**



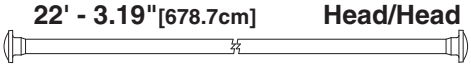
3 **24' - 7.44"[750.4cm] Head/Head Blue**



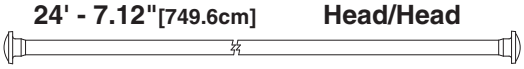
4 **21' - 6.69"[657.1cm] Head/Head Orange**



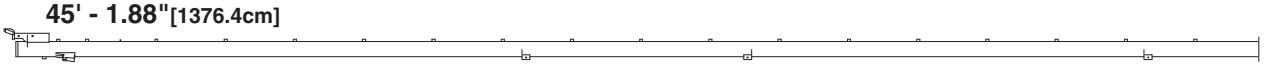
5 **22' - 3.19"[678.7cm] Head/Head Red**



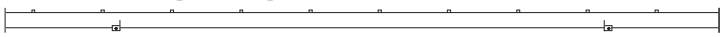
6 **24' - 7.12"[749.6cm] Head/Head Green**



7 **45' - 1.88"[1376.4cm]**



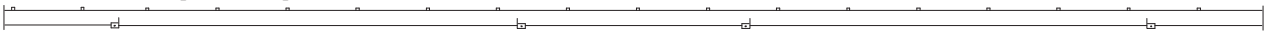
8 **24' - 10.00"[756.9cm]**



9 **45' - 1.88"[1376.4cm]**



10 **44' - 10.75"[1368.4cm]**



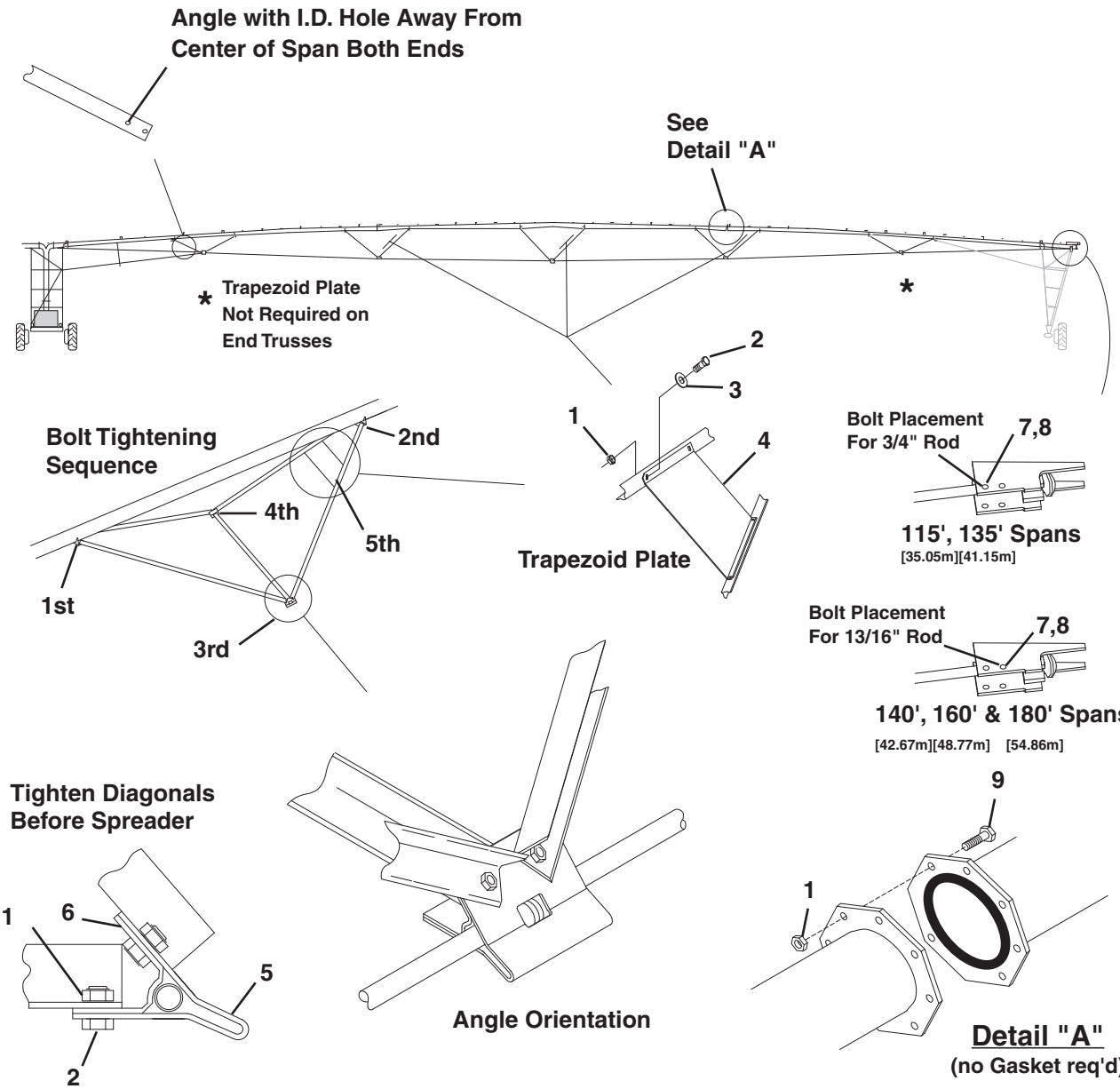
11 **44' - 10.75"[1368.4cm]**



ITEM	DESCRIPTION	Part #		
1	3/4" Tower Truss Rod (20' - 11.94")	9360060		
2	3/4" Standard Intermediate Truss Rod (22' - 2.97")	9360061		
3	3/4" Intermediate Truss Rod (24' - 7.44")	9360062		
4	13/16" Tower Truss Rod (21' - 0")	9360064		
5	13/16" Standard Intermediate Truss Rod (22" - 3/19")	9360065		
6	13/16" Intermediate Truss Rod (24' - 7.12")	9360066		
		108" Spacing	60" Spacing	30" Spacing
7	Swivel Pipe (45'-1.88")[1376.4cm]	9362731	9362741	9362776
8	25' Intermediate Pipe (24'-10.00")[756.9cm]	9362725	9362747	9362782
9	Fixed Pipe (45'-1.88")[1376.4cm]	9362733	9362743	9362778
10	45' Intermediate Pipe (44'-10.75")[1368.4cm]	9362727	9362749	9362784
11	Transition Pipe (44'-10.75")[1368.4cm]	9362735	9362745	9362780

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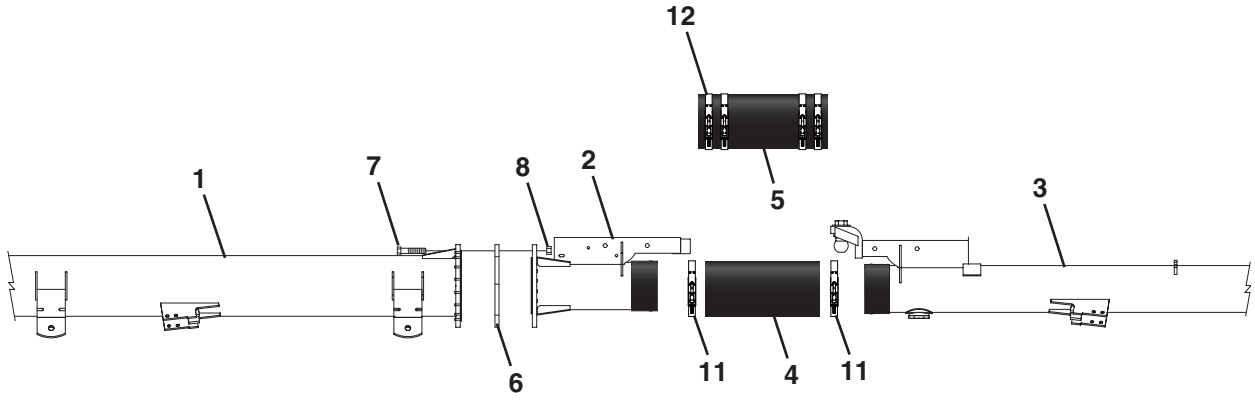
MODEL 8000P



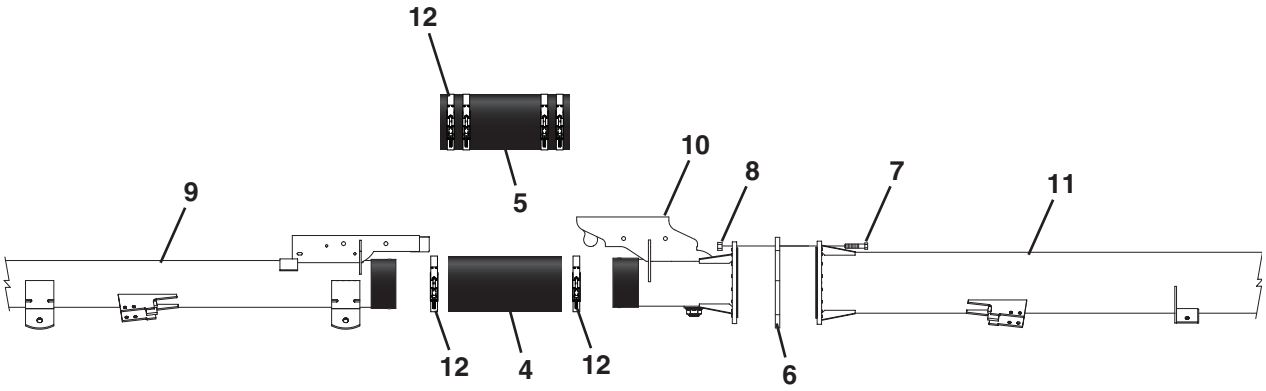
ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2" Cap Screw	0161024

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Forward Transition

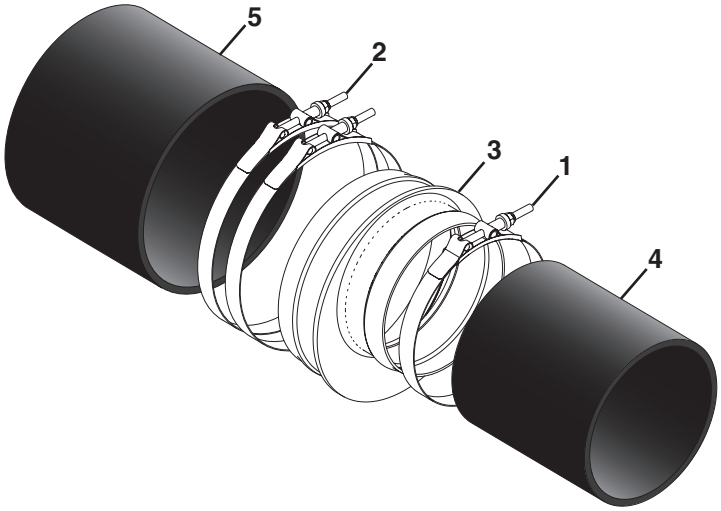


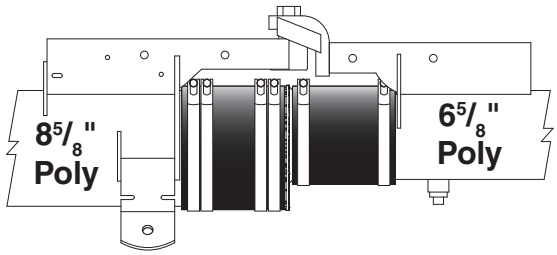
Reverse Transition

ITEM	DESCRIPTION	PART#
1	8-5/8" Transition Pipe	9362735
2	8-5/8" to 6-5/8" Transition Pipe	9362088
3	6-5/8" Swivel Pipe	9362683
4	Flex Hose, 7" I.D.	0995628
5	Flex Boot, 7" I.D. - Rough Terrain	0996625
6	8-5/8" to 6-5/8" Stainless Steel Adapter	9360946
7	1/2" x 2-1/2" Cap Screw	0161023
8	1/2" Lock Nut	0133005
9	6-5/8" Fixed Pipe	9362685
10	8-5/8" to 6-5/8" Reverse Transition Pipe	9362757
11	8-5/8" Pivot Pipe	9362729
12	7" Clamp	0995627

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ITEM	DESCRIPTION	PART #
1	Clamp - Flex Joint - 7" Hose	0995627
2	Clamp - Flex Joint - 8-5/8" Poly Pipe	0996085
3	8-5/8" to 6-5/8" Poly Short Transition Assm. - Stainless Steel	9364610
4	Flex Hose Joint - 7.00" I.D. x 8.00"	9364611
5	Flex Hose Joint - 9.00" I.D. x 8.00"	9364612

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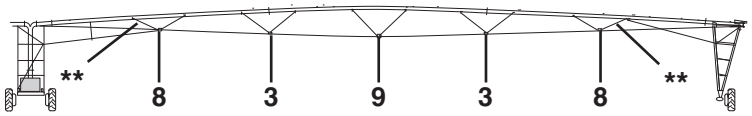
CART PolySpans
6-5/8" PIPE
75.5"[191.8cm] & 113"[287.0cm]
COUPLER SPACING



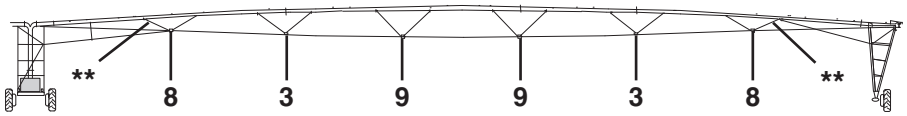
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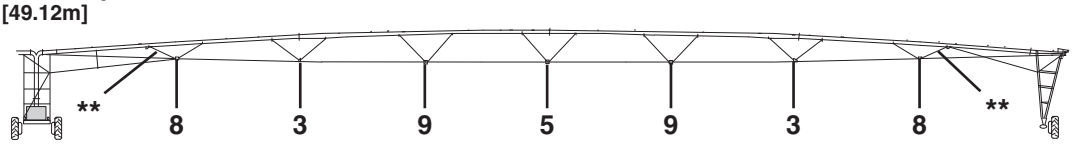
123.4' Span
[37.61m]



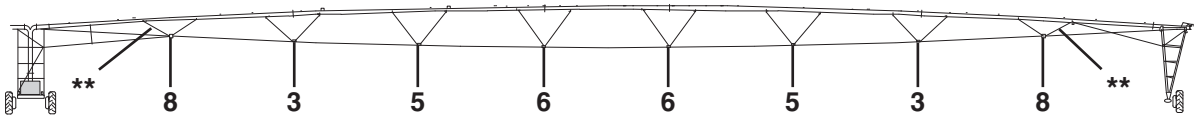
142.3' Span
[43.37m]



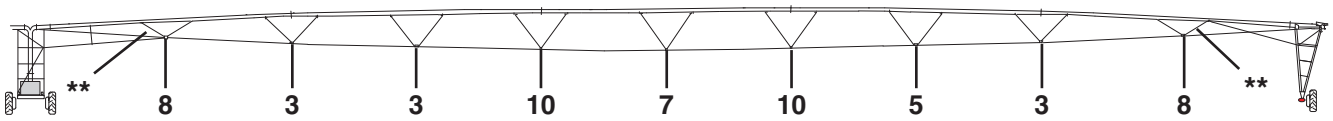
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]

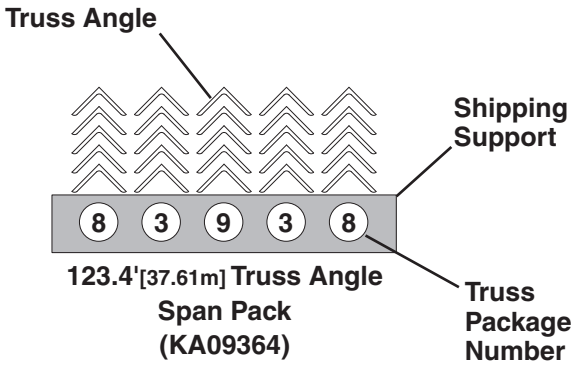


****NOTE: Location of longer diagonal w/I.D. hole.**

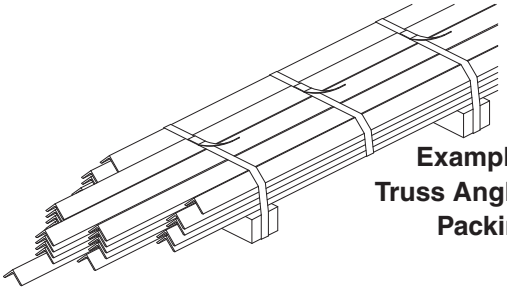
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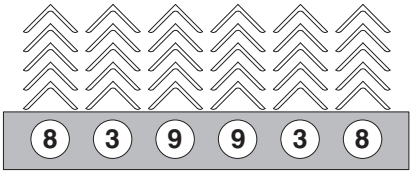
Reference Assembly Detail Page for Exact Location of Truss Packages



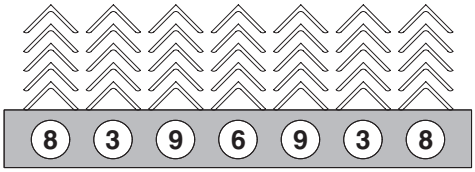
123.4'[37.61m] Truss Angle Span Pack (KA09364)



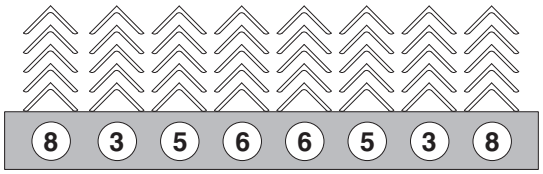
Example of Truss Angle Span Packing



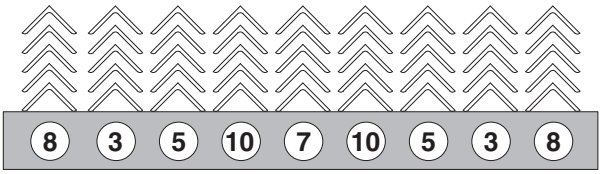
142.3'[43.37m] Truss Angle Span Pack (KA09283)



161.2'[49.12m] Truss Angle Span Pack (KA09285)



180'[54.88m] Truss Angle Span Pack (KA09288)



198.9'[60.63m] Truss Angle Span Pack (KA09290)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

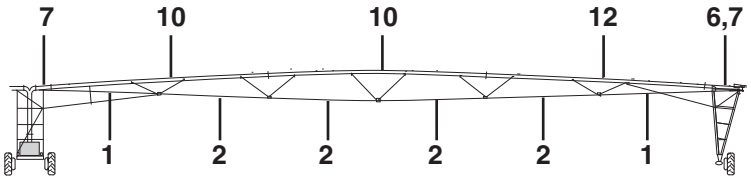
TRUSS PKG #	DIAGONAL			SPREADER		
	Part #	Overall Length Inches	cm	Part #	Overall Length Inches	cm
3	9360050	82.78"	[210.3]	9360051	92.69"	[235.4]
5	9360054	97.25"	[247.0]	9360055	115.03"	[292.2]
6	9360056	102.56"	[260.5]	9360057	122.94"	[312.3]
8	9360735**	63.36"	[160.9]	9360736	56.00"	[142.2]
	9360734	60.67"	[154.1]	-	-	-
9	9360706	92.71"	[235.5]	9360707	108.16"	[274.7]
10	9360704	108.50"	[275.6]	9360705	131.63"	[334.3]

****NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

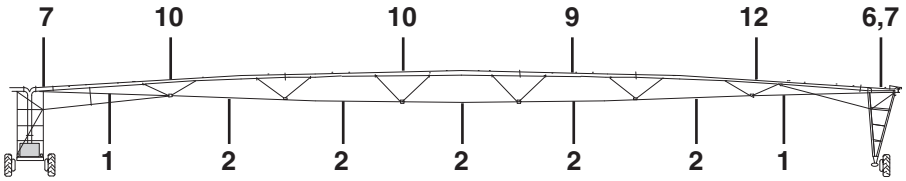
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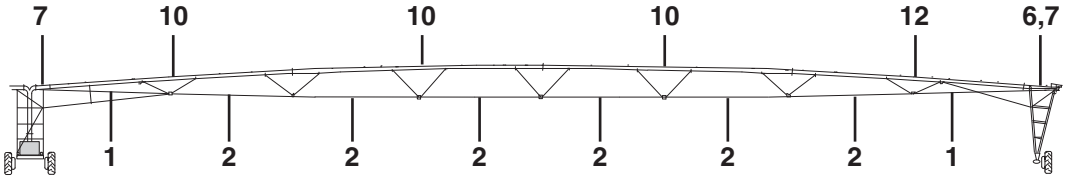
123.4' Span
[37.61m]



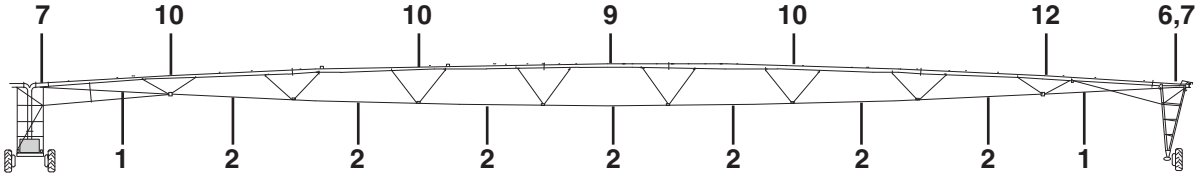
142.3' Span
[43.37m]



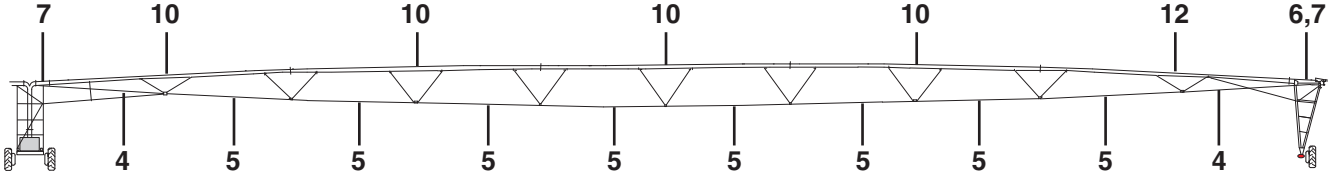
161.2' Span
[49.12m]



180' Span
[54.88m]

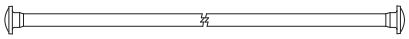


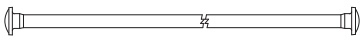
198.9' Span
[60.63m]

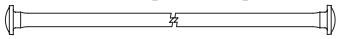


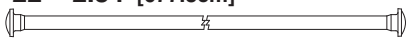
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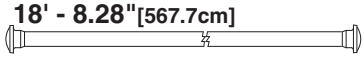
MODEL 8120P

1 **22' - 2.84"[677.8cm] Head/Head**

Purple

2 **18' - 8.28"[567.7cm] Head/Head**

Gold

3 **16' - 10.56"[514.5cm]**


4 **22' - 2.84"[677.8cm]**

Brown

5 **18' - 8.28"[567.7cm]**

Flourescent Green

6 **5' - 0.50"[153.7cm]**


7 **4' - 9.28"[145.5cm]**


9 **18' - 10.41"[575.1cm]**


10 **37' - 9.00"[1150.6cm]**

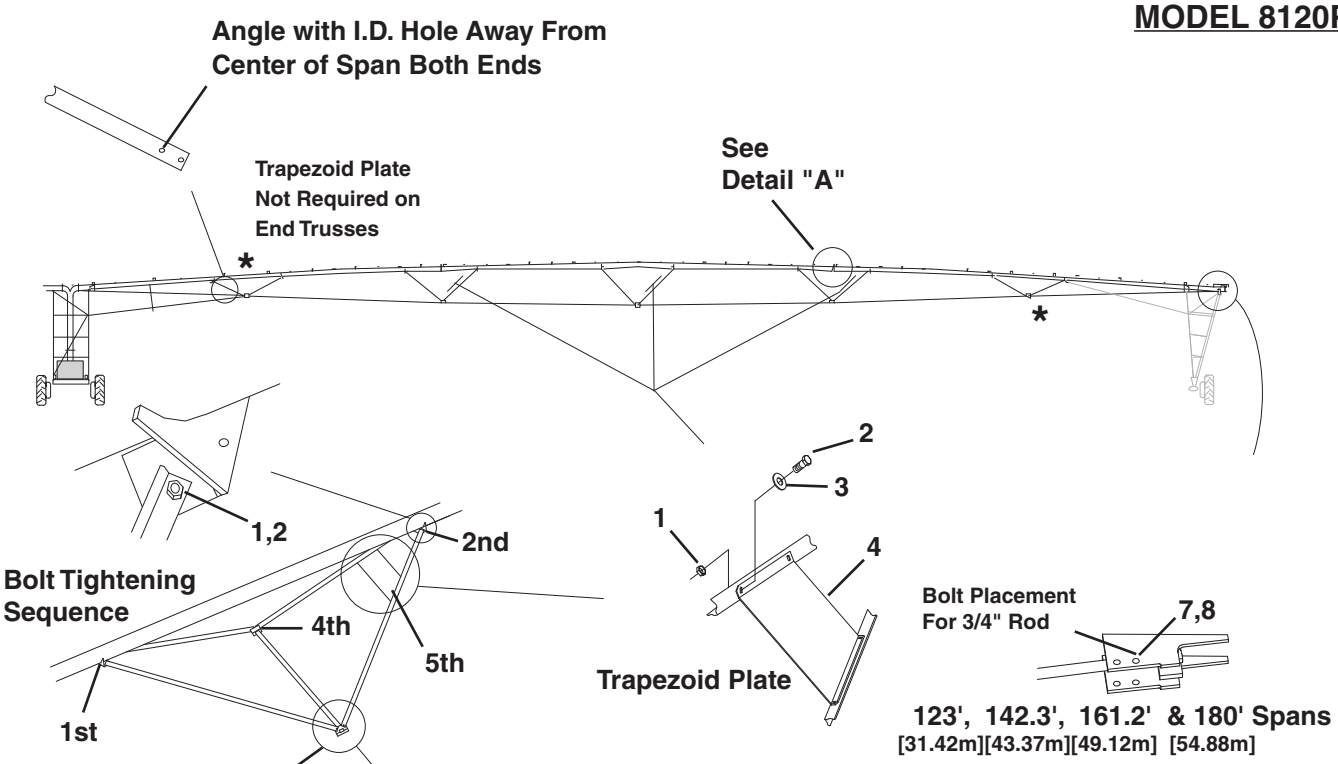

11 **35' - 11.25"[1095.4cm]**


12 **37' - 9.00"[1150.6cm]**

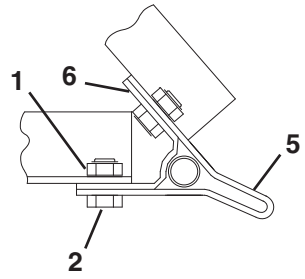

Item	Description	Part #	
1	3/4" Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360682	
3	3/4" Intermediate Truss Rod (16'-10.56")[514.5cm]	9362511	
4	13/16" Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
5	13/16" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719	
6	Swivel Stub Pipe (5'-0.50")[153.7cm]	9362671	
7	Last Stub Pipe (4'-9.47")[145.9cm]	9362673	
		75.5"[191.8cm]	113"[287.0cm]
9	19' Intermediate Pipe (18'-10.41")[575.1cm]	9362667	9362789
10	38' Intermediate Pipe (37'-9.00")[1150.6cm]	9362665	9362791
11	36' Intermediate Pipe (35'11.25")[1095.4cm]	9362713	N/A
12	38' Tower Pipe (37'-9.00")[1150.6cm]	9363963	9363961

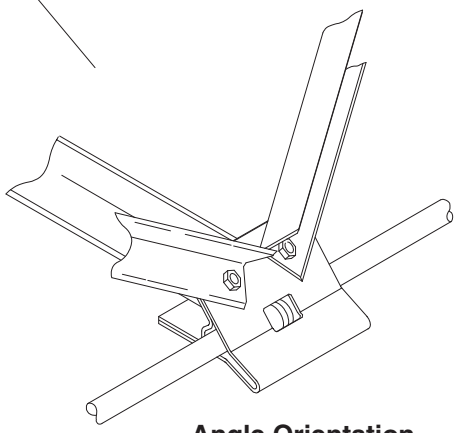
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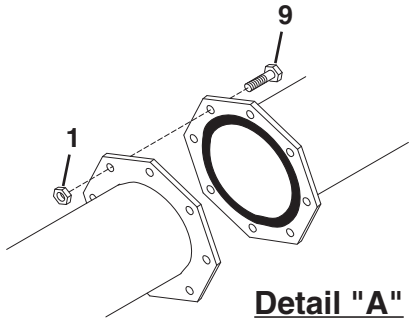


123', 142.3', 161.2' & 180' Spans
[31.42m][43.37m][49.12m] [54.88m]





Angle Orientation



Detail "A"

ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2-1/2" Cap Screw	0161023

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MODEL 8120P

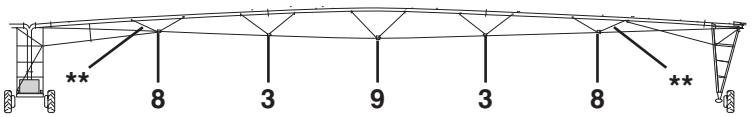
CART PolySpans
8-5/8" PIPE
75.5"[191.8cm] & 113"[287.0cm]
COUPLER SPACING



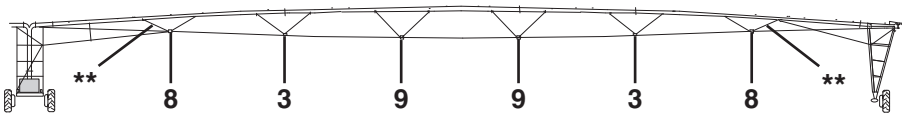
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MODEL 8120P

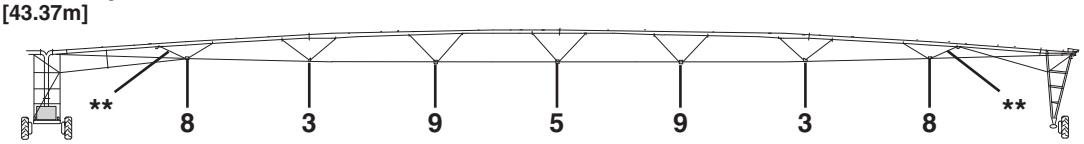
123.4' Span
[37.61m]



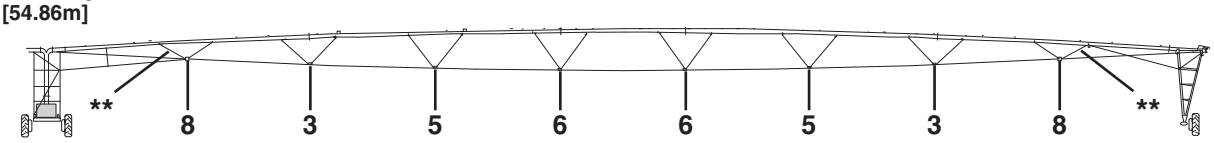
142.3' Span
[43.37m]



161.2' Span
[43.37m]



180' Span
[54.86m]

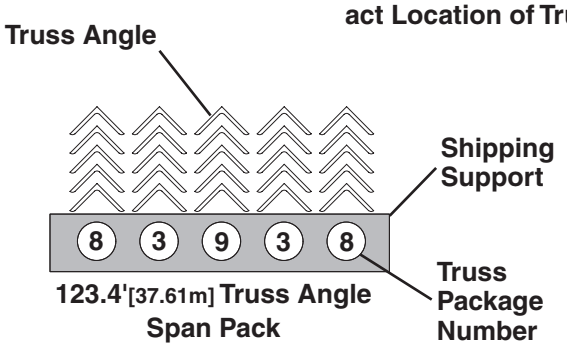


****NOTE: Location of longer diagonal w/I.D. hole.**

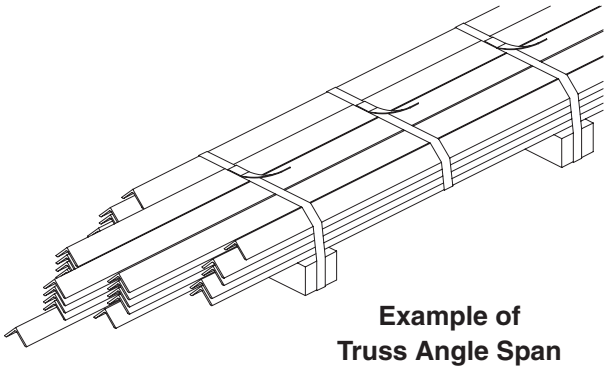
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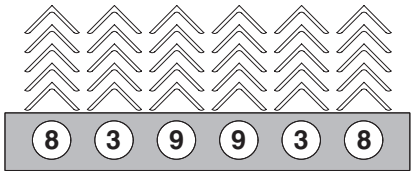
Reference Assembly Detail Page for Exact Location of Truss Packages



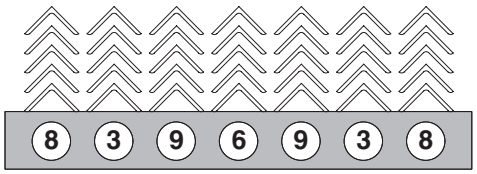
123.4'[37.61m] Truss Angle Span Pack (KA09364)



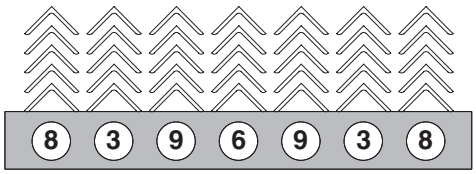
Example of Truss Angle Span Packing



142.3'[43.37m] Truss Angle Span Pack (KA09283)



161.2'[49.12m] Truss Angle Span Pack (KA09285)



180'[54.86m] Truss Angle Span Pack (KA09288)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

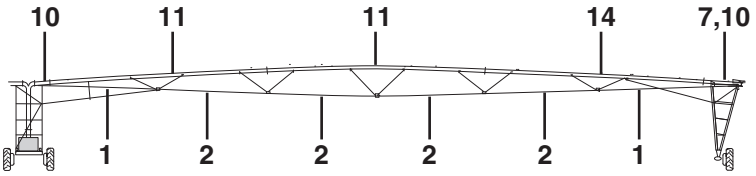
TRUSS PKG #	DIAGONAL			SPREADER		
		Overall Length			Overall Length	
	Part #	Inches	cm	Part #	Inches	cm
3	9360050	82.78"	[210.3cm]	9360051	92.69"	[235.4cm]
5	9360054	97.25"	[247.0cm]	9360055	115.03"	[292.2cm]
6	9360056	102.56"	[260.5cm]	9360057	122.94"	[2312.3cm]
8	9360735**	63.36"	[160.9cm]	9360736	56.00"	[142.2cm]
	9360734	60.67"	[154.1cm]	-	-	-
9	9360706	92.71"	[235.5cm]	9360707	108.16"	[274.7cm]

****NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

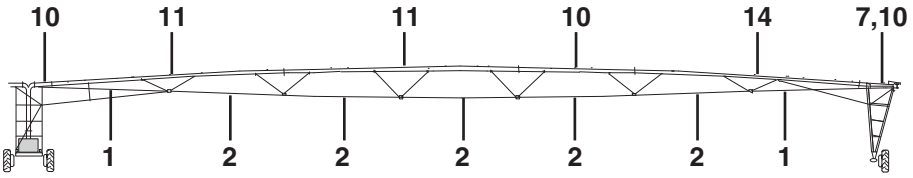
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MODEL 8120P

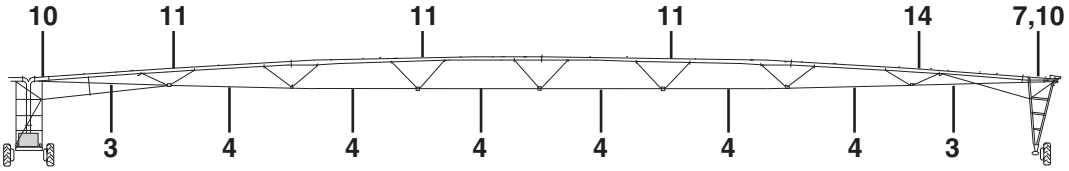
123.4' Span
[37.61m]



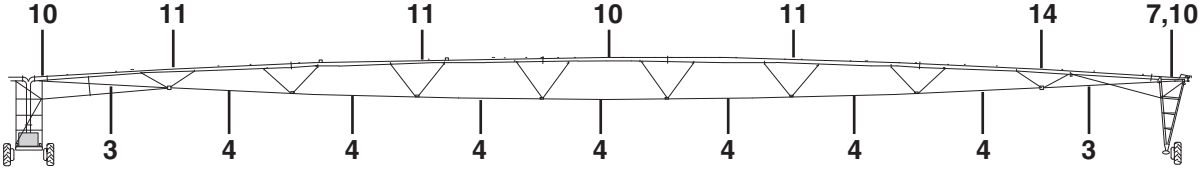
142.3' Span
[43.37m]



161.2' Span
[49.12m]



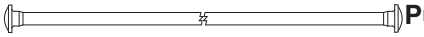
180' Span
[54.86m]



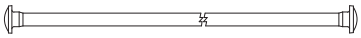
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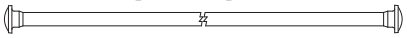
22' - 2.84"[677.8cm] Head/Head

1  **Purple**

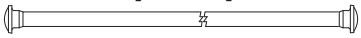
18' - 8.28"[569.7cm] Head/Head

2  **Gold**

22' - 2.84"[677.8cm] Head/Head

3  **Brown**

18' - 8.28"[569.7cm] Head/Head

4  **Flourescent Green**

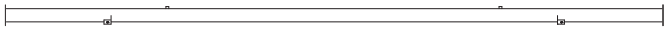
5' - 0.50"[153.7cm]

7 

4' - 9.72"[146.6cm]

10 

18' - 10.41"[575.1cm]

11 

37' - 9.00"[1150.6cm]

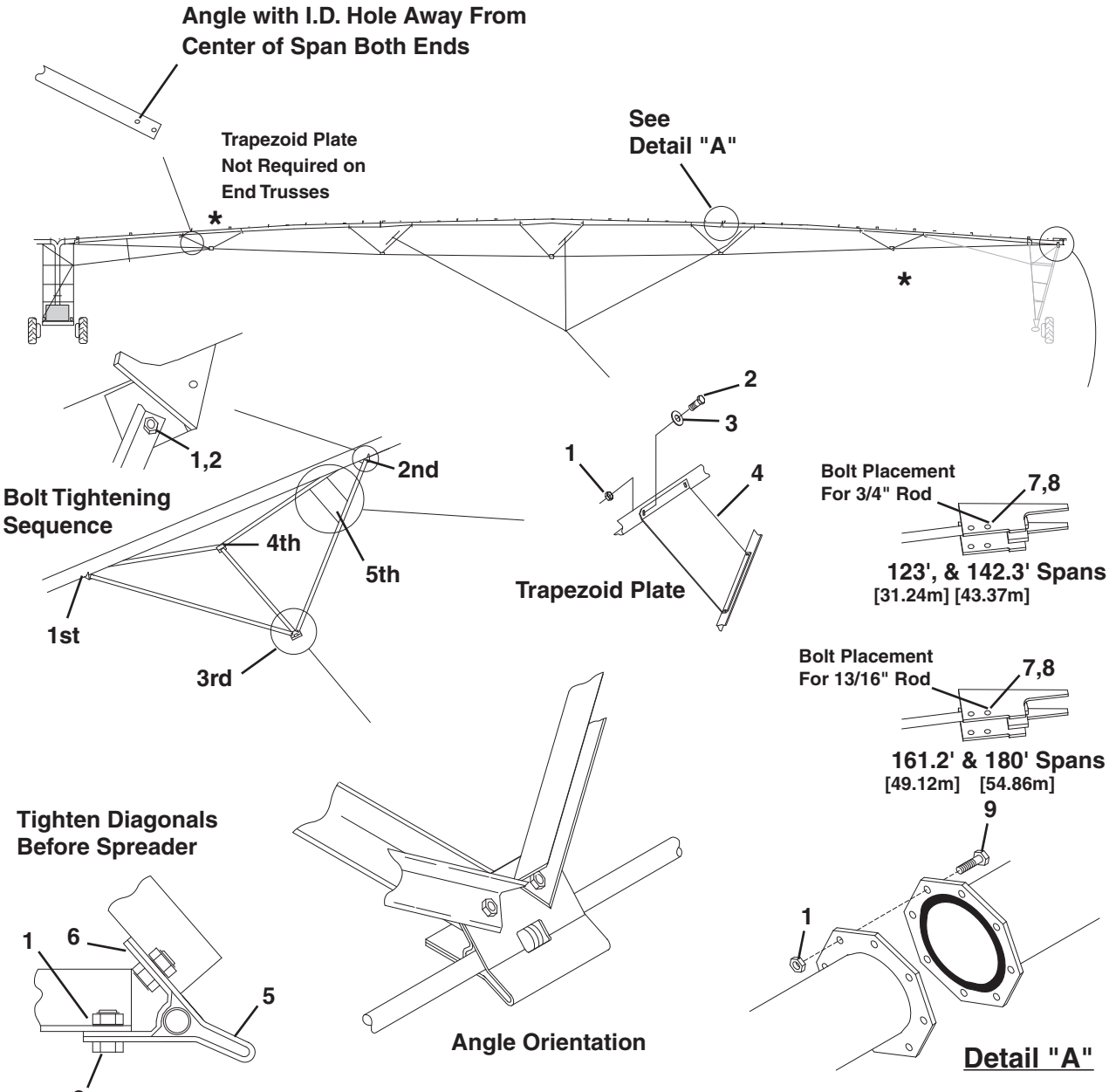
14 

Item	Description	Part #	
1	3/4" Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682	
3	13/16" Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
4	13/16" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719	
7	Swivel Stub Pipe (5'-0.50")[153.7cm]	9362717	
10	Cart Stub Pipe (4'-9.72")[146.6cm]	9362737	
		75.5"[191.8cm]	113"[191.8cm]
11	19' Intermediate Pipe (18'-10.41")[575.1cm]	9362723	9362793
14	38' Tower Pipe (37'-9")[1150.6cm]	9363969	9363967

****NOTE: Cart Stub Pipe used ONLY on Rainger Cart.**

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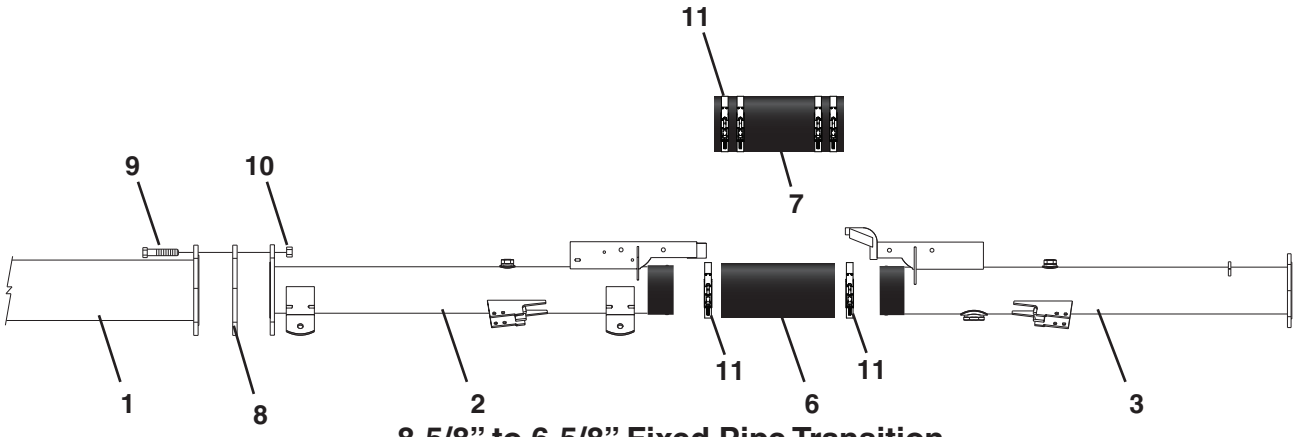
MODEL 8120P



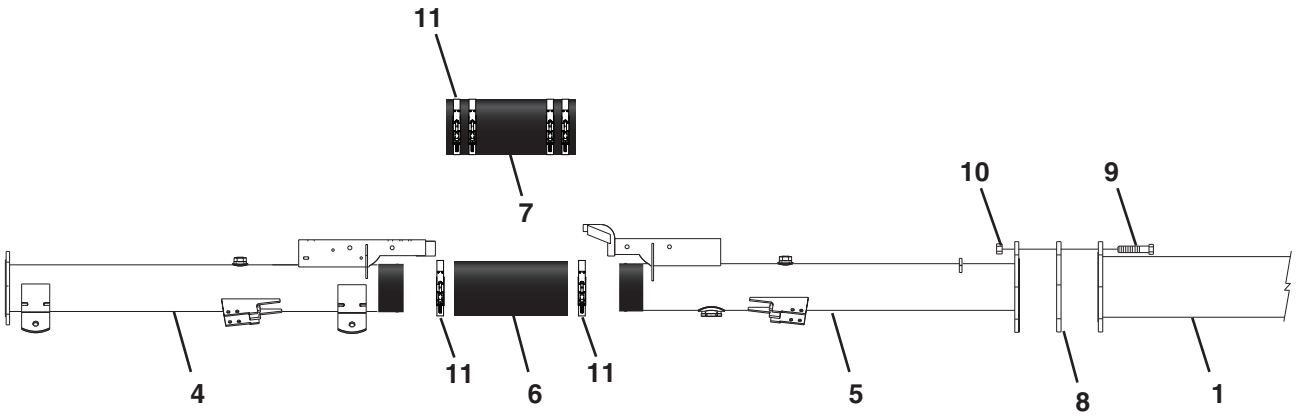
ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2-1/2" Cap Screw	0161023

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MODEL 8120P



8-5/8” to 6-5/8” Fixed Pipe Transition

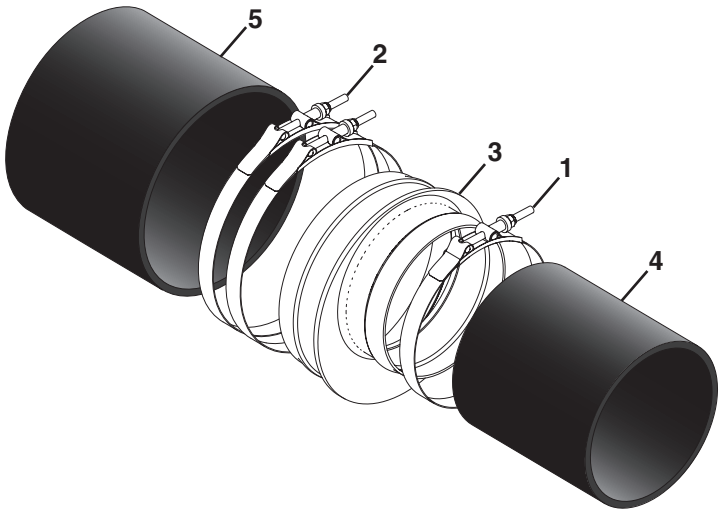


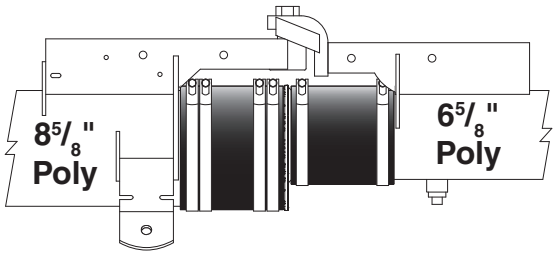
8-5/8” to 6-5/8” Swivel Pipe Transition

ITEM	DESCRIPTION	PART#
1	8-5/8” Intermediate Pipe	9362721
2	8-5/8” to 6-5/8” Fixed Transition Pipe	9362753
3	6-5/8” Swivel Stub Pipe	9362671
4	6-5/8” Fixed Stub Pipe	9362675
5	8-5/8” to 6-5/8” Swivel Transition Pipe	9362759
6	Flex Hose, 7” I.D.	0995628
7	Flex Boot, 7” I.D. - Rough Terrain	0996625
8	8-5/8” to 6-5/8” Stainless Steel Adapter	9360946
9	1/2” x 2-1/2” Cap Screw	0161023
10	1/2” Lock Nut	0133005
11	7" Clamp	0995627

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MODEL 8120P

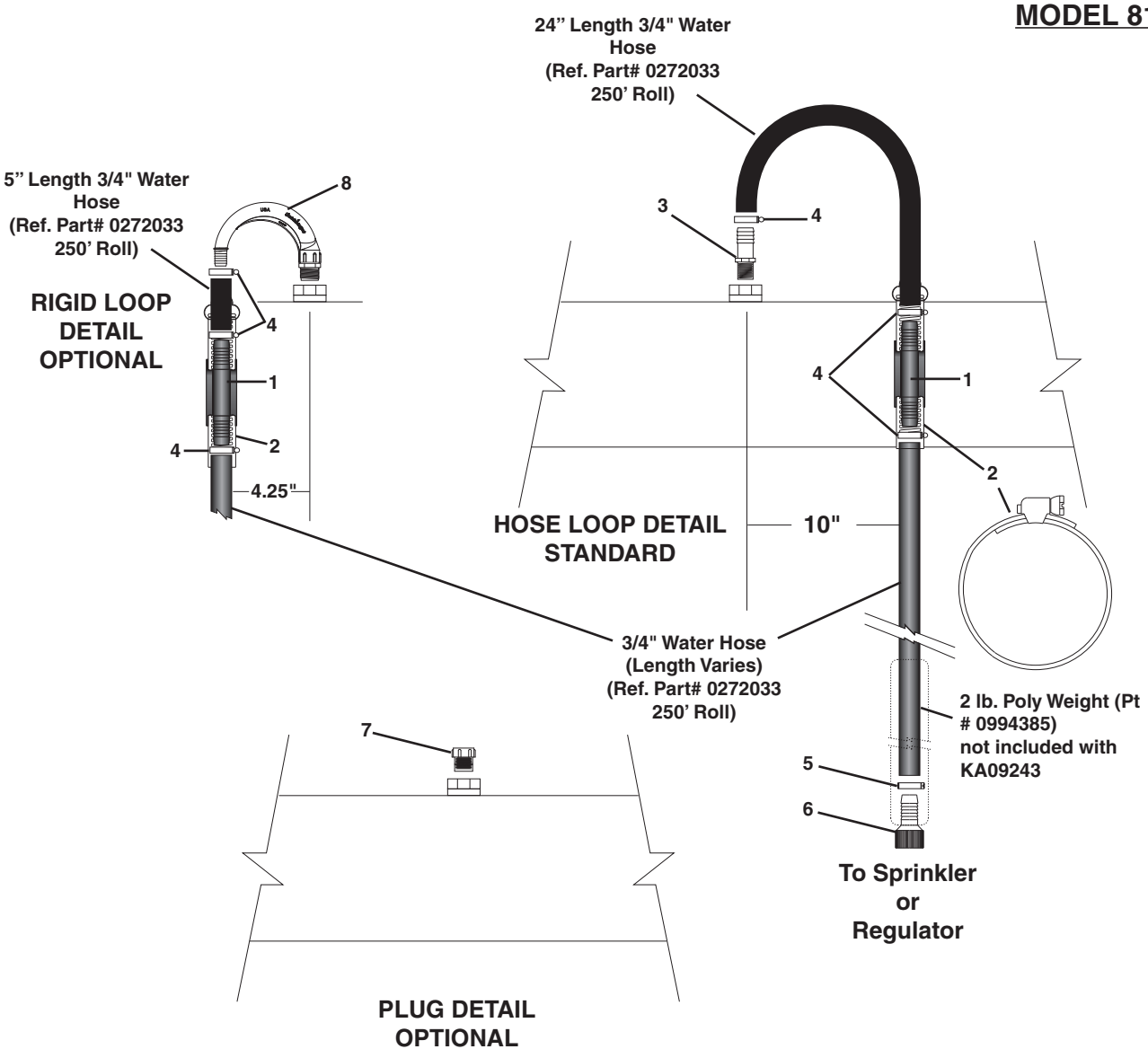




ITEM	DESCRIPTION	PART #
1	Clamp - Flex Joint - 7" Hose	0995627
2	Clamp - Flex Joint - 8-5/8" Poly Pipe	0996085
3	8-5/8" to 6-5/8" Poly Short Transition Assm. - Stainless Steel	9364610
4	Flex Hose Joint - 7.00" I.D. x 8.00"	9364611
5	Flex Hose Joint - 9.00" I.D. x 8.00"	9364612

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MODEL 8120P

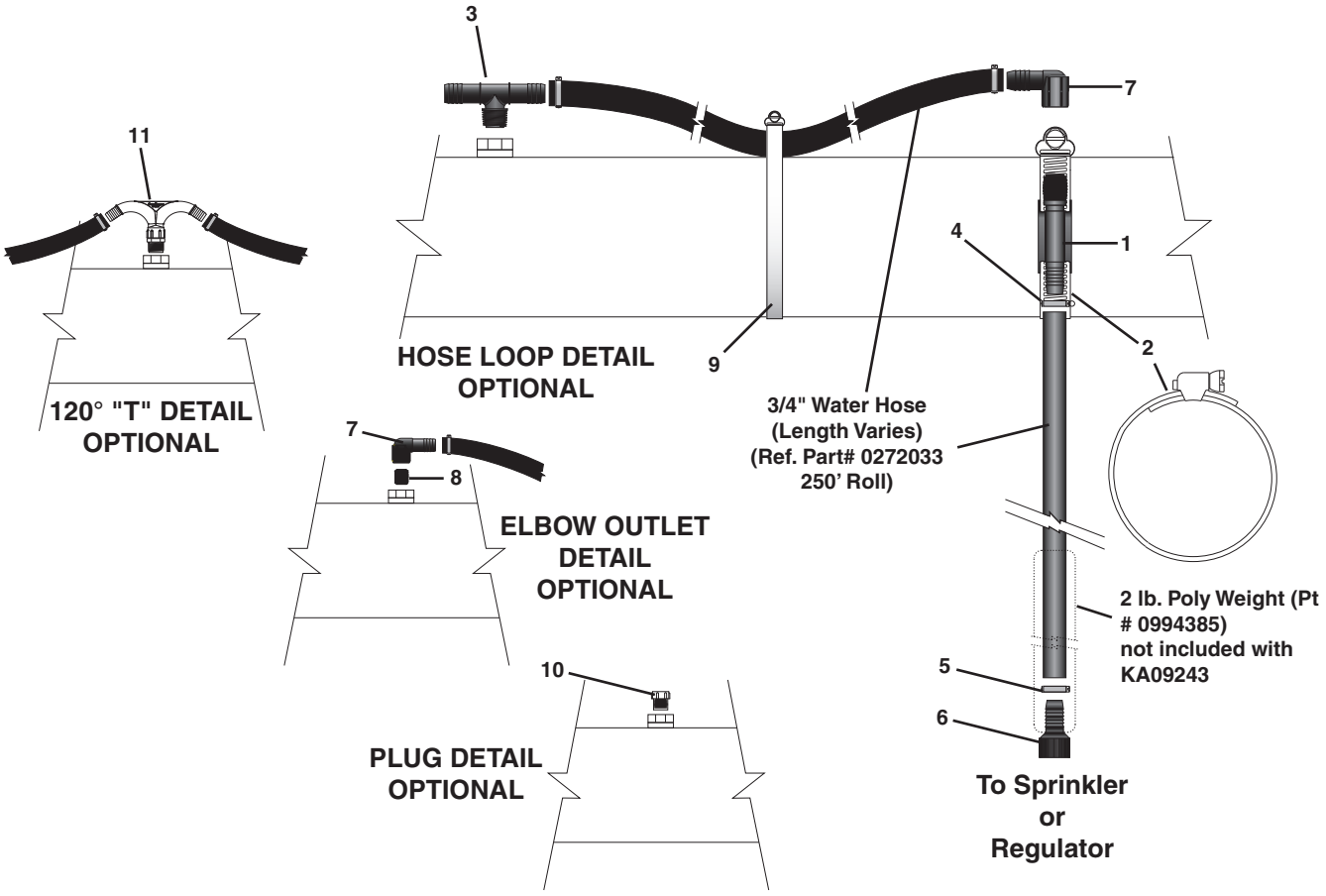


ITEM	DESCRIPTION	PART#
1	3/4" Adj. Hose Barb Connection (For 6-5/8" & 8-5/8")	9360365
2	6-5/8" Screw Clamp	0271087*
	8-5/8" Screw Clamp	0271105**
3	3/4" NPT x 3/4" Insert Fitting	0271077
4	1-1/4" Hose Drop Clamp	0271084
5	1-1/16" Crimp Hose Clamp	0271080
6	3/4" NPT Female x 3/4" Hose Barb	0271082
7	3/4" NPT Pipe Plug - PVC	0246193
8	3/4" MNPT x 3/4" Hose Barb U-Pipe	0246222

*Sprinkler Hardware Kit 6-5/8" Items 1-4 ..... KA09243
**Sprinkler Hardware Kit 8-5/8" Items 1-4 ..... KA09367

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MODEL 8120P



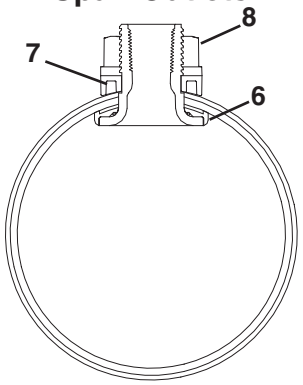
ITEM	DESCRIPTION	PART#
1	3/4" Adj. Insert Connection (For 6-5/8" & 8-5/8")	9360956
2	6-5/8" Screw Clamp	0271087*
	8-5/8" Screw Clamp	0271105**
3	3/4" x 3/4" Insert x 3/4" NPT Tee Fitting	0242061
4	1-1/4" Hose Drop Clamp	0271084
5	1-1/16" Crimp Hose Clamp	0271080
6	3/4" NPT Female x 3/4" Hose Barb	0271082
7	3/4" FNPT x 3/4" PVC Insert - 90°	0271104
8	3/4" NPT x 1-1/2" PVC Nipple	0211103
9	Hydraulic Tube Clamp	0271021
10	3/4" NPT Pipe Plug - PVC	0246193
11	3/4" Double Barb Gooseneck	0274021

*90° Elbow 6-5/8" Hardware Kit KA09368
**90° Elbow 8-5/8" Hardware Kit KA09366

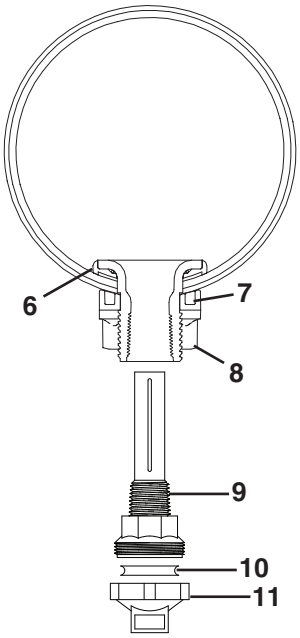
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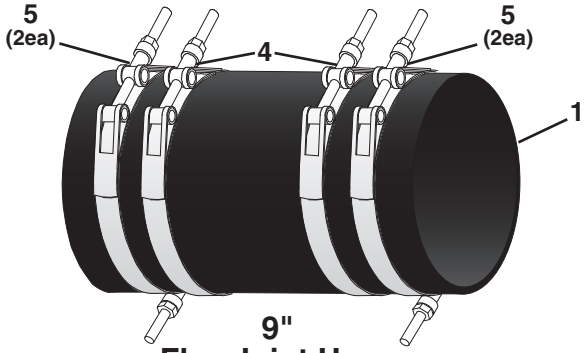
MODEL 8120P

Span Outlets

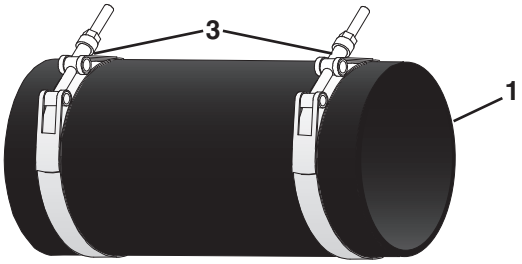


Span Drains

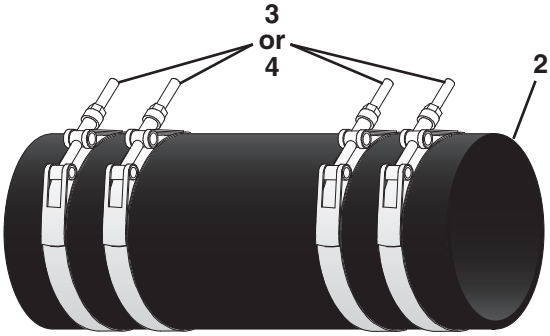




9"
Flex Joint Hose



7"
Flex Joint Hose



ITEM	DESCRIPTION	PART #
1	7" Flex Joint Hose	0995628
	9" Flex Joint Hose	0996027
2	7" Flex Boot - Rough Terrain	0996625
	9" Flex Boot - Rough Terrain	0996669
3	7" Flex Joint Clamp	0995627
4	9" Flex Joint Clamp	0996085
5	4-1/2" Flex Joint Clamp	0270001
6	3/4" Compression Assembly	0246217
7	3/4" Support Washer	0246214
8	3/4" Compression Nut	0246213
9	3/4" Upper Drain Body	0246227
10	Drain Seal	0232568
11	Lower Drain Body	0232004

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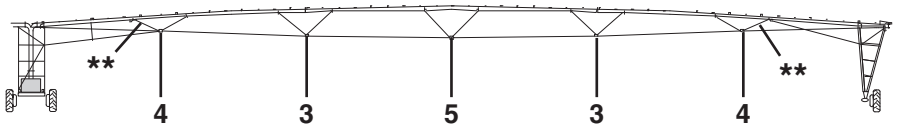
CART PolySpans
EXPORT 6-5/8" PIPE
90"[228.6cm]
COUPLER SPACING



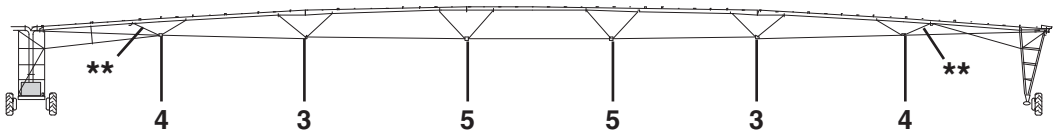
Copyright © 2019 Valmont Industries, Inc.

MODEL 8000P

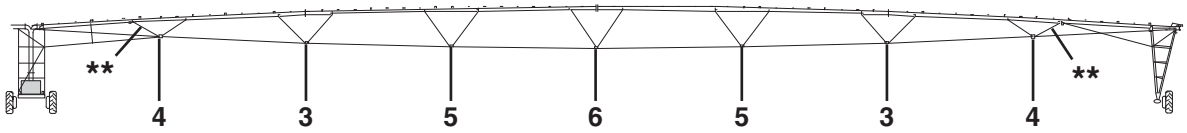
135' Span



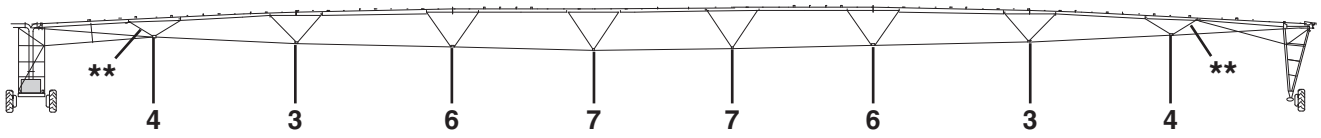
157.5' Span



180' Span



202.5' Span

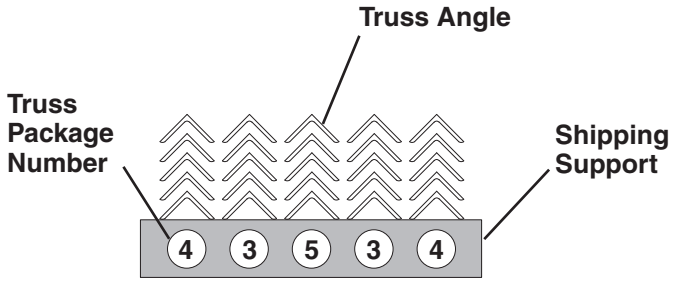


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

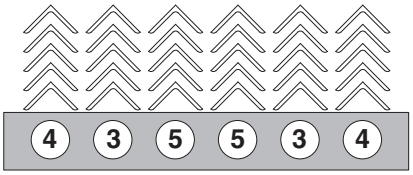
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MODEL 8000P

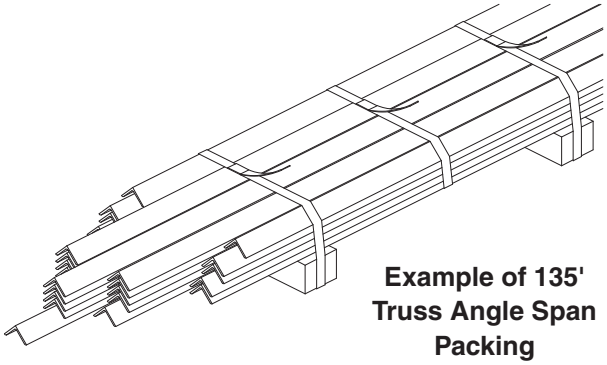
Reference Assembly Detail Page for Exact Location of Truss Packages



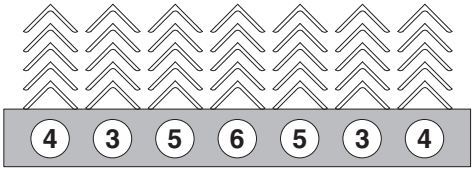
135' Truss Angle Span Pack (KA09047)



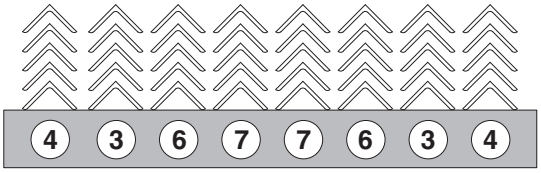
157.5' Truss Angle Span Pack (KA09050)



Example of 135' Truss Angle Span Packing



180' Truss Angle Span Pack (KA09025)



202.5' Truss Angle Span Pack (KA09026)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

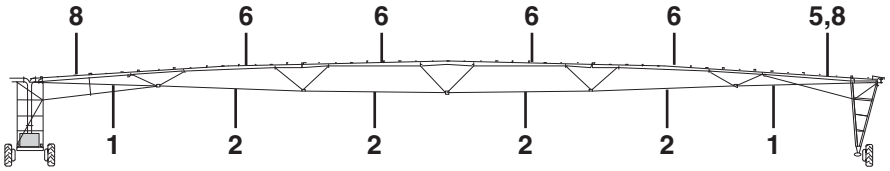
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"
7	9360058	112.09"	9360059	136.84"

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

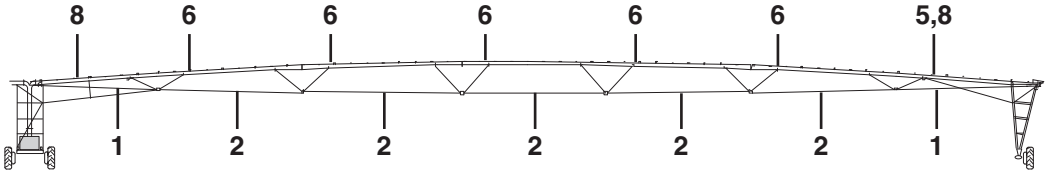
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MODEL 8000P

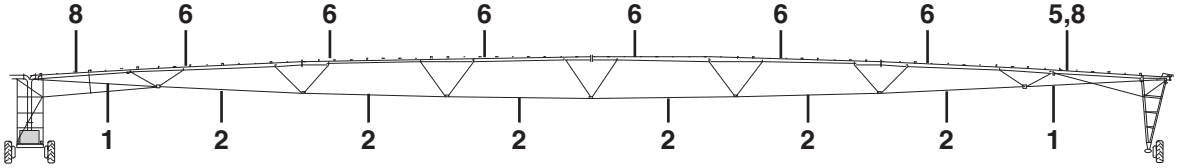
135' Span



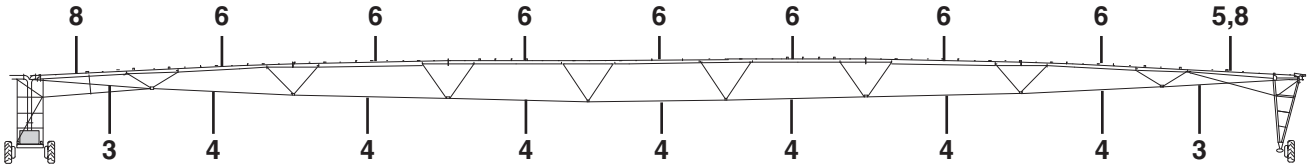
157.5' Span



180' Span

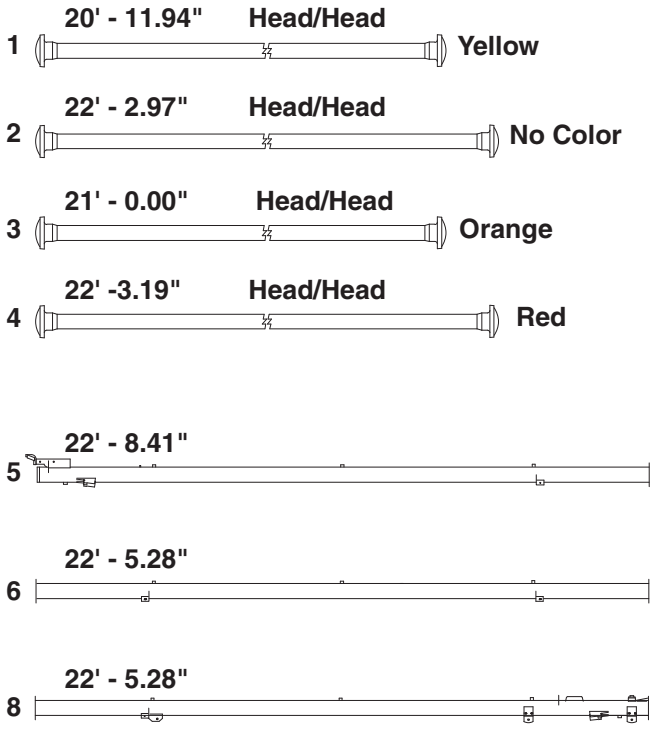


202.5' Span



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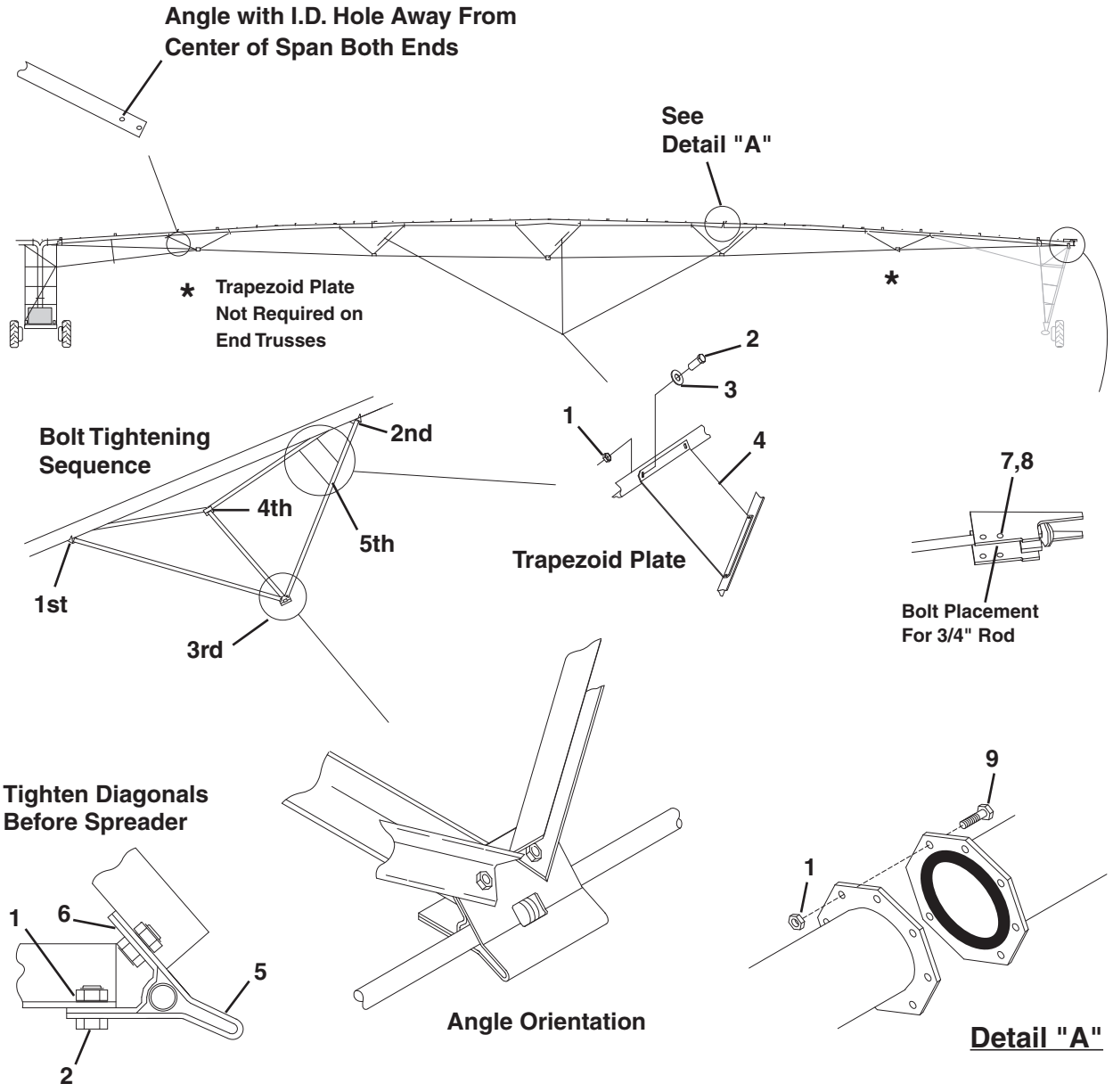
MODEL 8000P



Item	Description	90" Part #
1	3/4" Tower Truss Rod (20'-11.94")	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061
3	13/16" Tower Truss Rod (21'-0")	9360064
4	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
5	Swivel Pipe (22'-8.41")	9362815
6	22-1/2' Std. Intermediate Pipe (22'-5.28")	9362811
8	Last Pipe (22'-5.28")	9362819

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MODEL 8000P



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2" Cap Screw	0161024

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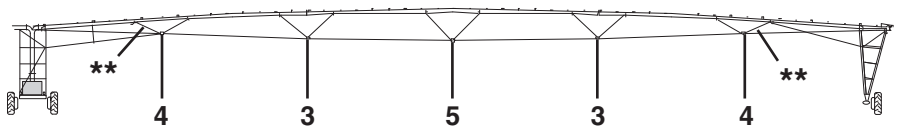
CART PolySpans
EXPORT 8-5/8" PIPE
90"[228.6cm]
COUPLER SPACING



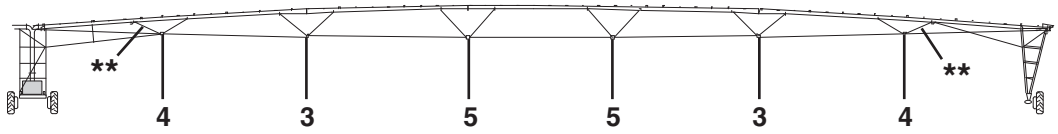
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MODEL 8000P

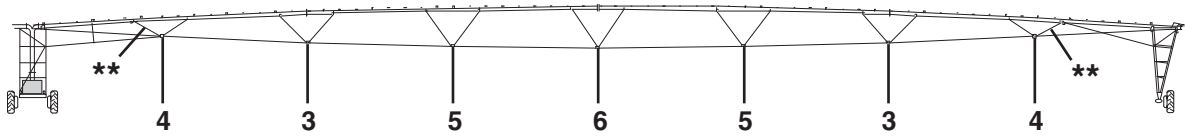
135' Span



157.5' Span



180' Span

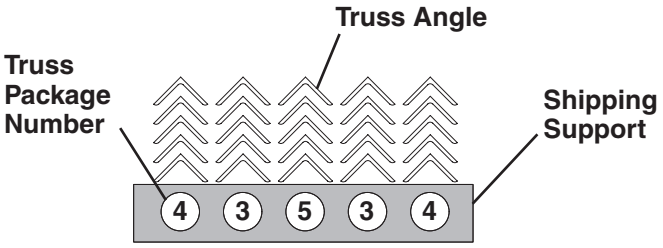


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

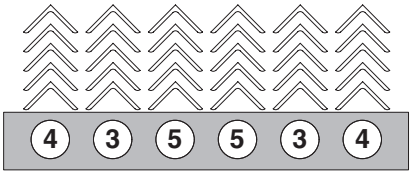
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MODEL 8000P

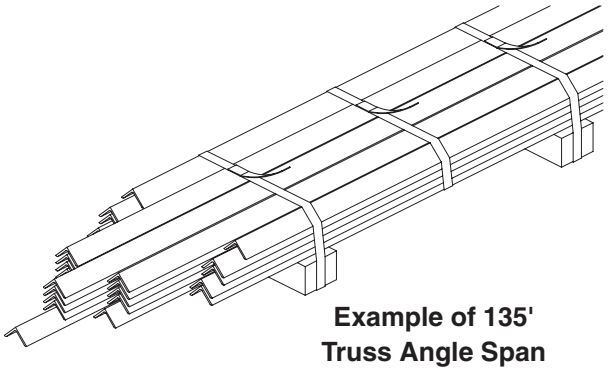
Reference Assembly Detail Page for Exact Location of Truss Packages



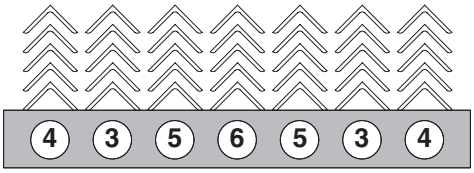
135' Truss Angle Span Pack (KA09047)



157.5' Truss Angle Span Pack (KA09050)



Example of 135' Truss Angle Span Packing



180' Truss Angle Span Pack (KA09025)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

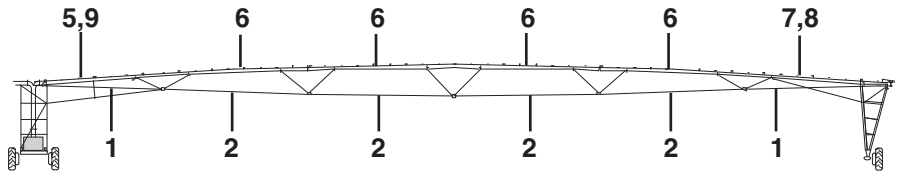
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

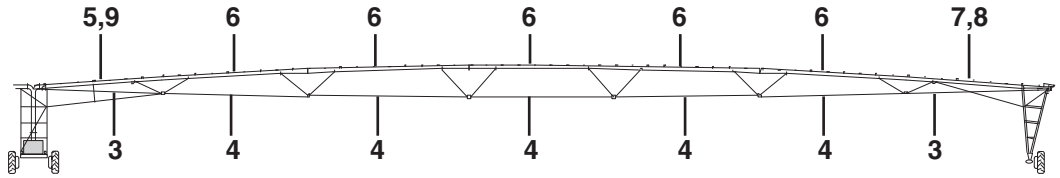
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MODEL 8000P

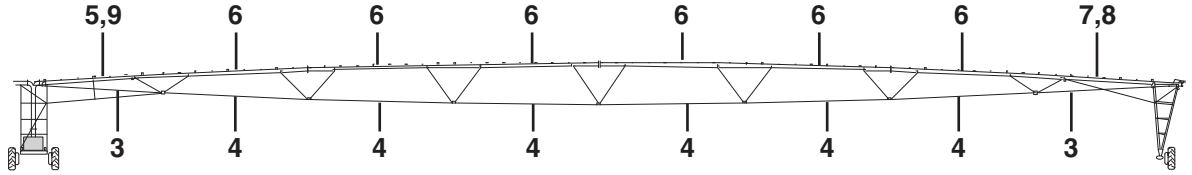
135' Span



157.5' Span

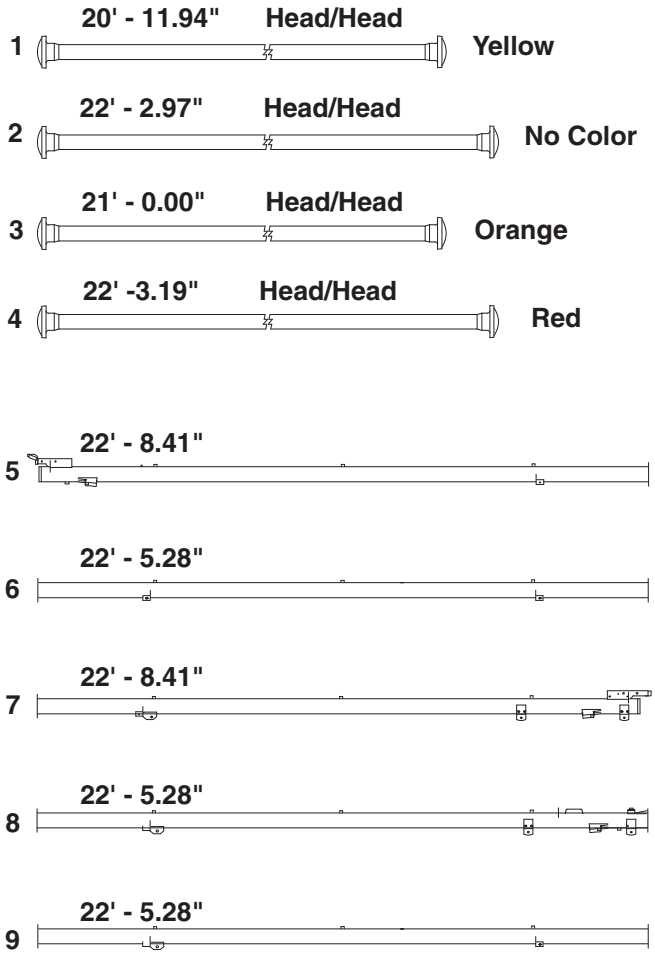


180' Span



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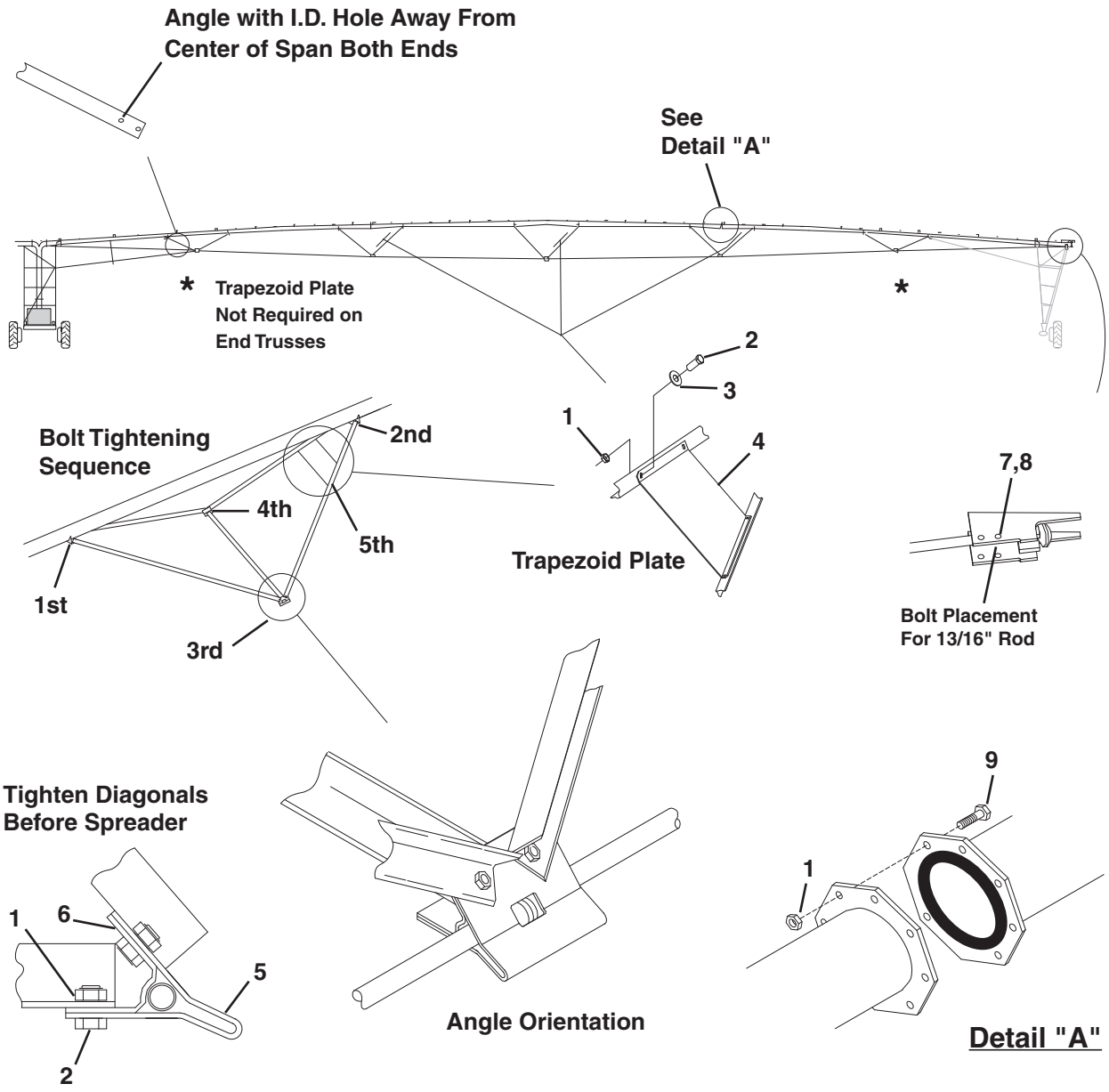
MODEL 8000P



Item	Description	90" Part #
1	3/4" Tower Truss Rod (20'-11.94")	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061
3	13/16" Tower Truss Rod (21'-0")	9360064
4	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
5	Swivel Pipe (22'-8.41")	9362825
6	22-1/2' Std. Intermediate Pipe (22'-5.28")	9362821
7	Fixed Pipe (22'-8.41")	9362823
8	Transition Pipe (22'-5.28")	9362829
9	Pivot Pipe (22'-5.28")	9362827

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MODEL 8000P



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2" Cap Screw	0161024

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ADD & FREESTANDING SPANS

Model 8000

Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
MODEL 8000		
6-5/8" Pipe - 30" & 108" Coupler Spacing		
Truss Package Locations	03-17	10-4
Truss Angle Packages	03-17	10-5
Pipe/Truss Rod Locations	03-17	10-6
Pipes/Truss Rods	03-17	10-7
Sprinkler Coupling Locations	03-17	10-8
Sprinkler Coupling Location Details	06-06	10-9
Assembly Details	06-06	10-10
8-5/8" Pipe - 30" & 108" Coupler Spacing		
Truss Package Locations	03-17	10-12
Truss Angle Packages	03-17	10-13
Pipe/Truss Rod Locations	03-17	10-14
Pipes/Truss Rods	01-18	10-15
Sprinkler Coupling Locations	03-17	10-16
Sprinkler Coupling Location Details	06-06	10-17
Assembly Details	06-06	10-18
10" Pipe - 30" Coupler Spacing		
Truss Package Locations	03-17	10-20
Truss Angle Locations	03-17	10-21
Pipe/Truss Rod Locations	03-17	10-22
Pipes/Truss Rods	03-17	10-23
Sprinkler Coupling Locations	03-17	10-24
Sprinkler Coupling Location Details	03-17	10-25
Assembly Details	03-17	10-26
MODEL 8000 - EXPORT		
6-5/8" Export Pipe - 90" Coupler Spacing		
Truss Package Locations	06-06	10-28
Truss Angle Packages	03-17	10-29
Pipe/Truss Rod Locations	06-06	10-30
Pipes/Truss Rods	03-08	10-31
Sprinkler Coupling Locations	06-06	10-32
Sprinkler Coupling Location Details	06-06	10-33
Assembly Details	06-06	10-34
8-5/8" Export Pipe - 90" Coupler Spacing		
Truss Package Locations	09-08	10-36
Truss Angle Packages	09-08	10-37
Pipe/Truss Rod Locations	09-08	10-38
Pipes/Truss Rods	03-08	10-39
Sprinkler Coupling Locations	09-08	10-40
Sprinkler Coupling Location Details	06-06	10-41
Assembly Details	06-06	10-42

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MC80AF0066
08-18

ADD & FREESTANDING SPANS
Model 8000

Rainger Linear - Effective 10/94

Description	Rev. #	Pg. #
Pipeline Accessories		
Pipe Drain	02-13	10-44
Flanges & Gaskets	06-06	10-45
Transition Pipes	06-06	10-46
Zero Length Transitions	06-06	10-47
Flex Hose & Hitch Components	08-18	10-48

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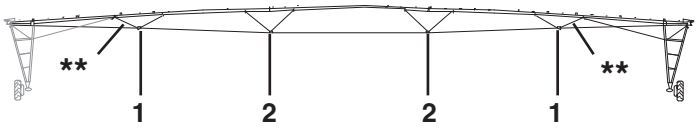
ADD & FREESTANDING SPANS
6-5/8" PIPE
30" & 108" COUPLER SPACING



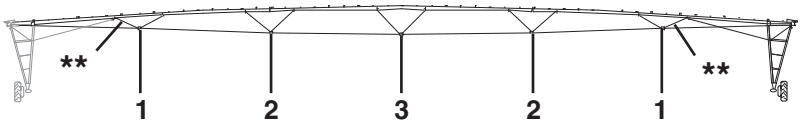
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MODEL 8000

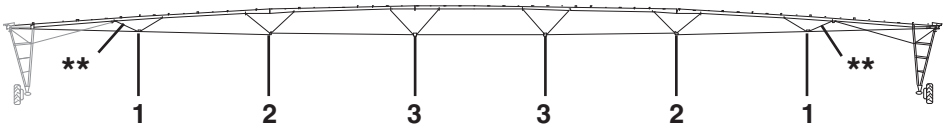
115' Span



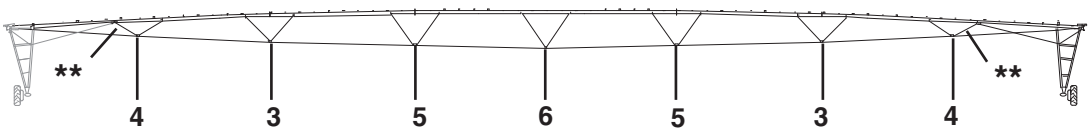
135' & 140' Span



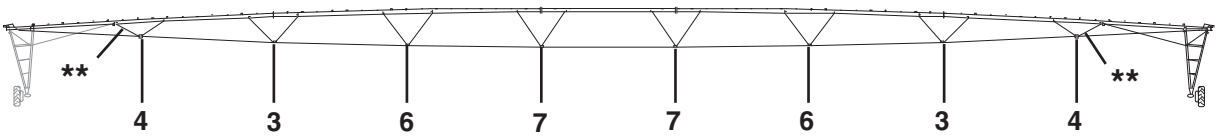
160' Span



180', 185' & 187' Span



205' Span

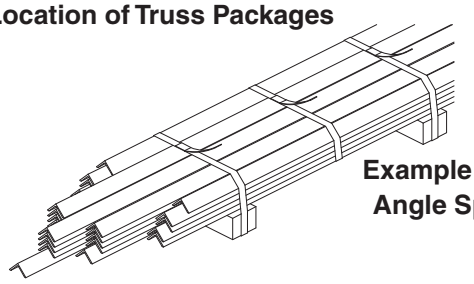


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

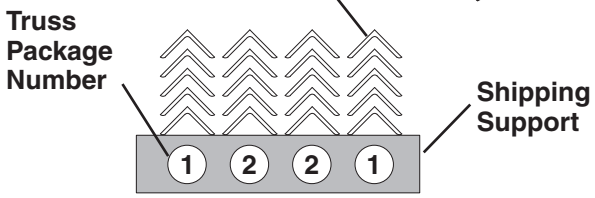
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MODEL 8000

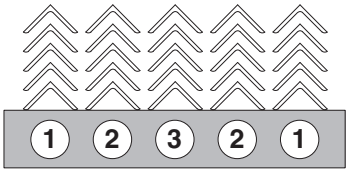
Reference Assembly Detail Page for Exact Location of Truss Packages



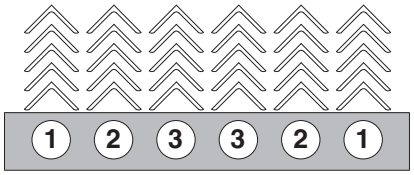
Example of 135' Truss Angle Span Packing



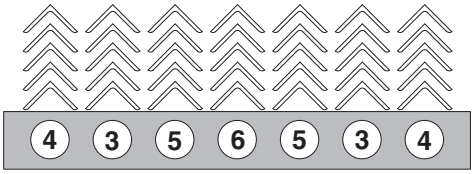
115' Truss Angle Span Pack (KA09116)



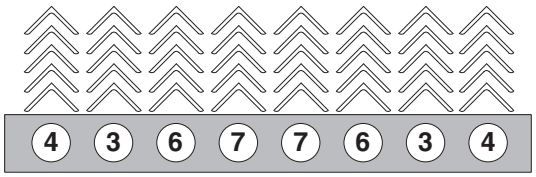
135' & 140' Truss Angle Span Pack (KA09023)



160' Truss Angle Span Pack (KA09024)



180', 185' & 187' Truss Angle Span Pack (KA09025)



205' Truss Angle Span Pack (KA09026)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

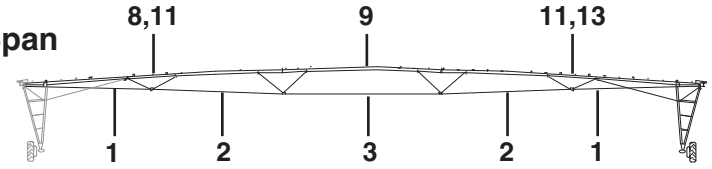
TRUSS PKG #	DIAGONAL			SPREADER		
	Part #	Overall Length Inches	cm	Part #	Overall Length Inches	cm
1	9360046**	58.42"	[148.4]	9360047	44.69"	[113.5]
	9360073	55.38"	[140.7]	-	-	-
2	9360048	72.97"	[185.3]	9360049	76.44"	[194.2]
3	9360050	82.78"	[210.3]	9360051	92.69"	[235.4]
4	9360052**	61.68"	[156.7]	9360053	52.25"	[132.7]
	9360074	58.81"	[148.6]	-	-	-
5	9360054	97.25"	[247.0]	9360055	115.03"	[292.2]
6	9360056	102.56"	[260.5]	9360057	122.94"	[312.3]
7	9360058	112.09"	[284.7]	9360059	136.84"	[347.6]

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

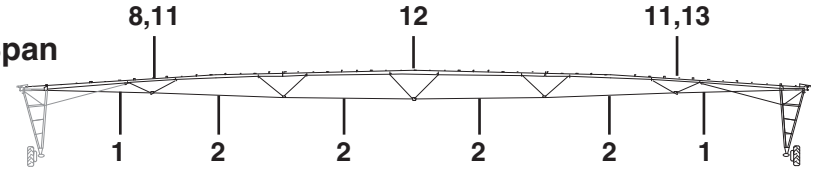
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MODEL 8000

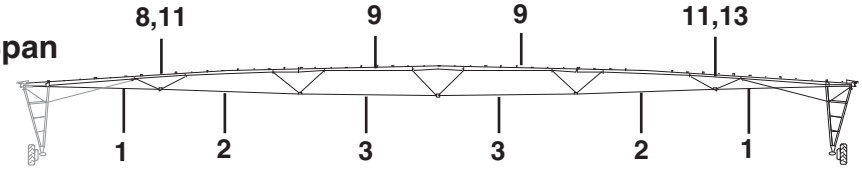
115' Span



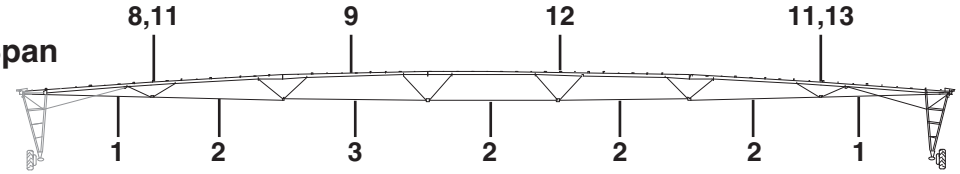
135' Span



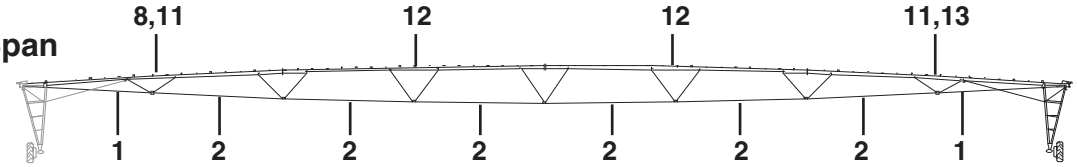
140' Span



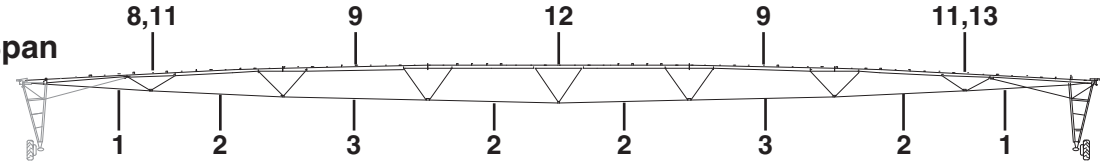
160' Span



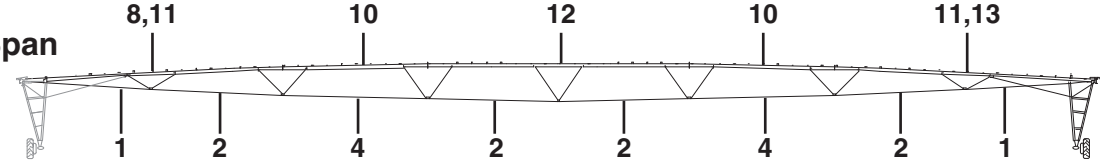
180' Span



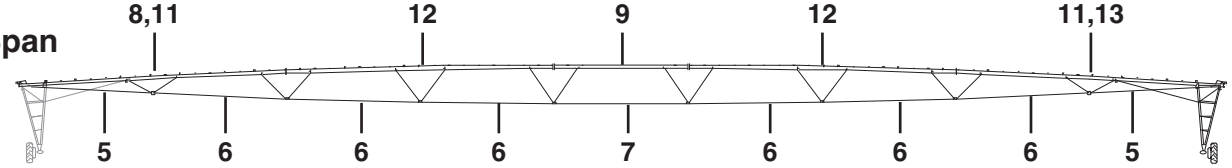
185' Span



187' Span

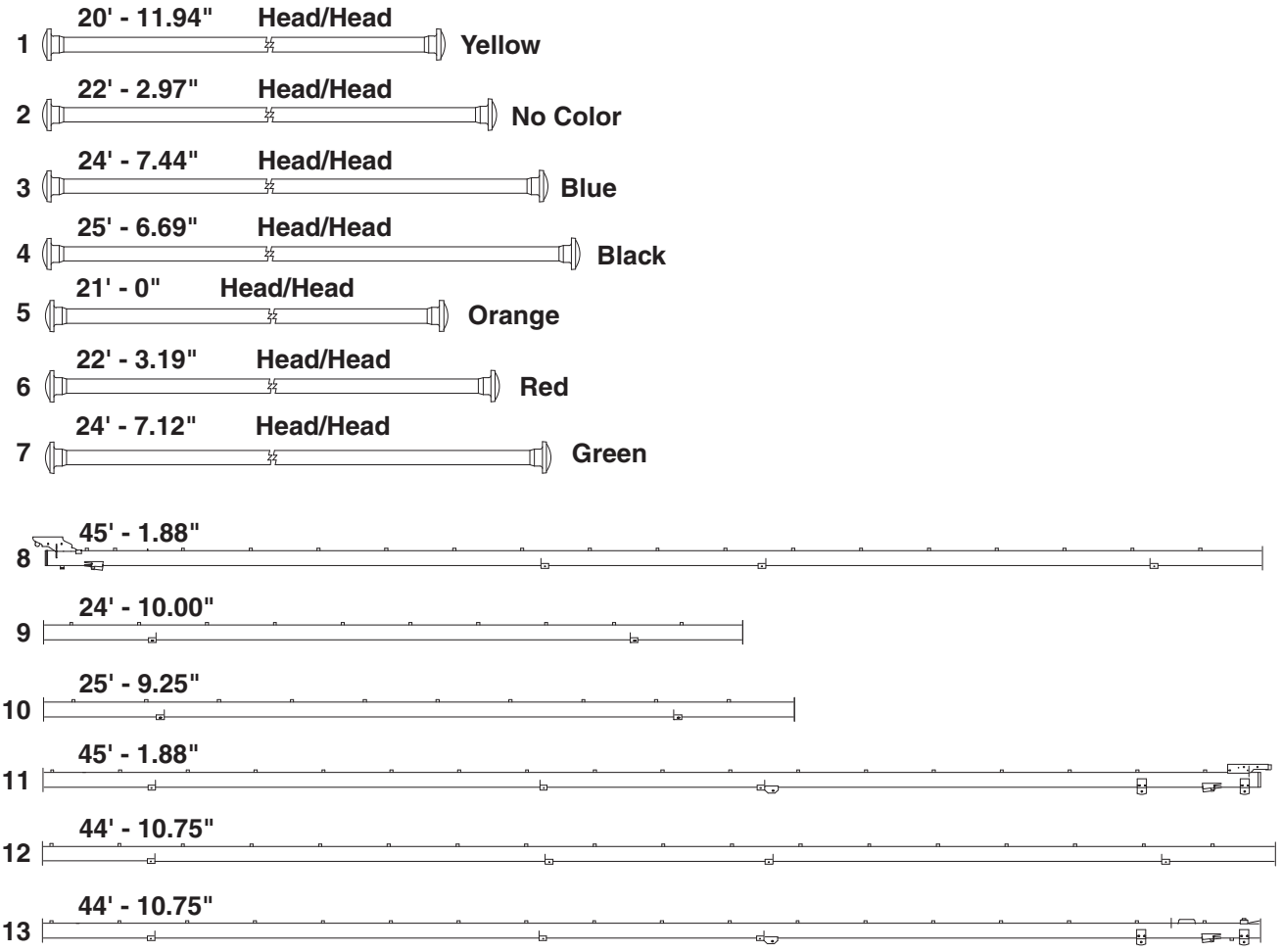


205' Span



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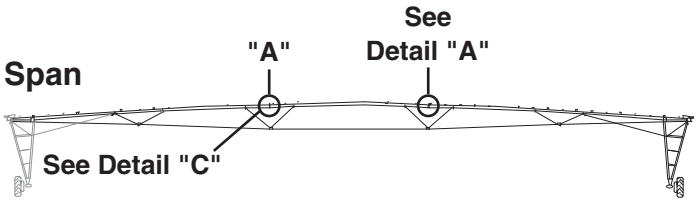
Item	Description	Part # 30"	Part # 108"
1	3/4" Tower Truss Rod (20'-11.94")	9360060	9360060
2	3/4" Standard Intermediate Truss Rod (22'-2.97")	9360061	9360061
3	3/4" Intermediate Truss Rod (24'-7.44")	9360062	9360062
4	3/4" Intermediate Truss Rod (25'-6.69")	9360063	9360063
5	13/16" Tower Truss Rod (21'-0")	9360064	9360064
6	13/16" Standard Intermediate Truss Rod (22'-3/19")	9360065	9360065
7	13/16" Intermediate Truss Rod (24'-7.12")	9360066	9360066
8	Swivel Pipe (45'-1.88")	9360022	9360012
9	25' Short Intermediate Pipe (24'-10.00")	9360018	9360004
10	26' Short Intermediate Pipe (25'-9.25")	9360019	-
11	Fixed Pipe (45'-1.88")	9360021	9360010
12	45' Standard Intermediate Pipe (44'-10.75")	9360020	9360008
13	Last Pipe (44'-10.75")	9360024	9360016

NOTE: Two (2) fixed pipes and drive units are required on all freestanding spans.

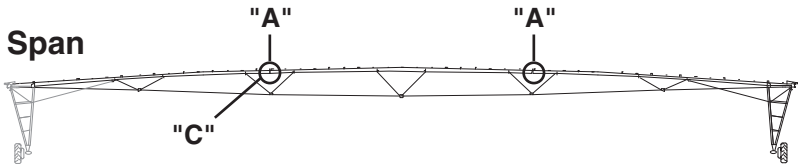
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MODEL 8000

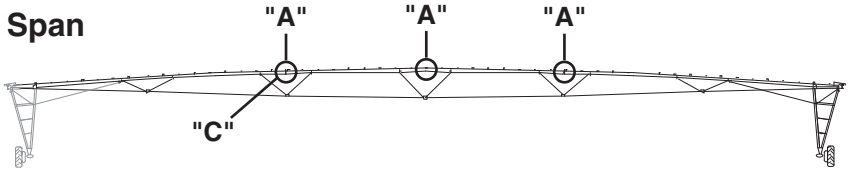
115' Span



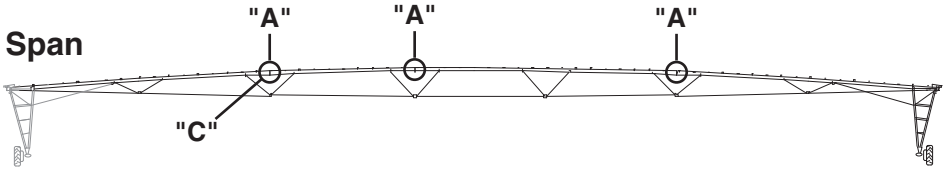
135' Span



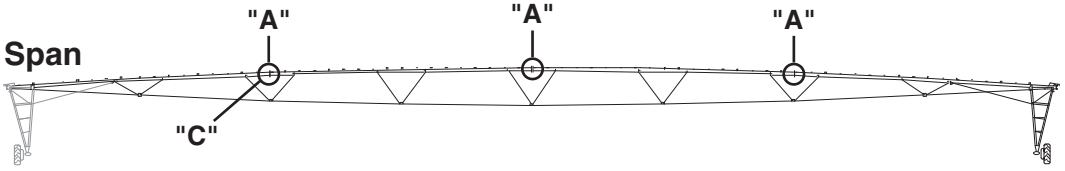
140' Span



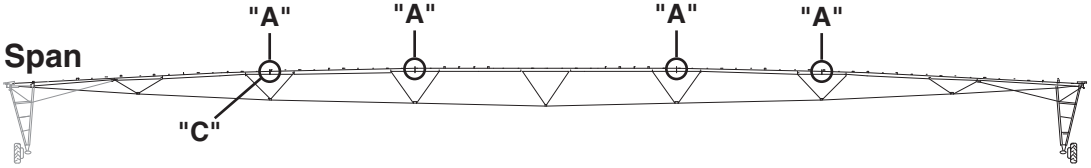
160' Span



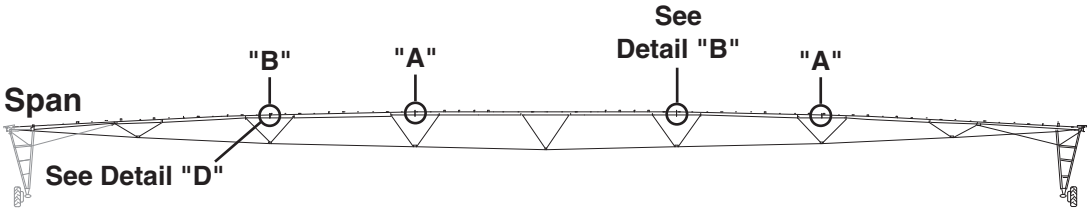
180' Span



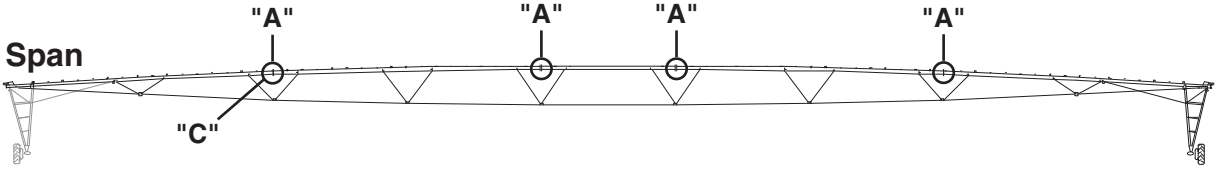
185' Span



187' Span



205' Span

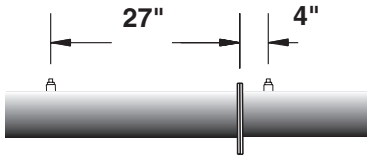


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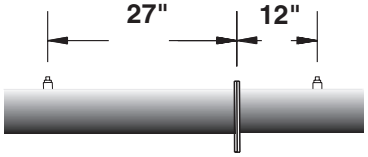
MODEL 8000

30" Spacing Details

Detail "A"

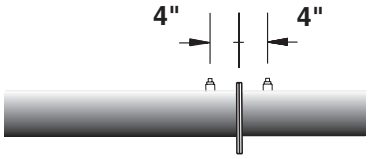


Detail "B"



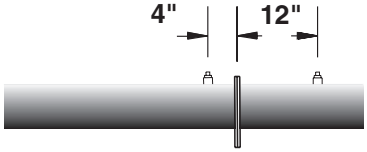
Detail "C"

Freestanding Span Only



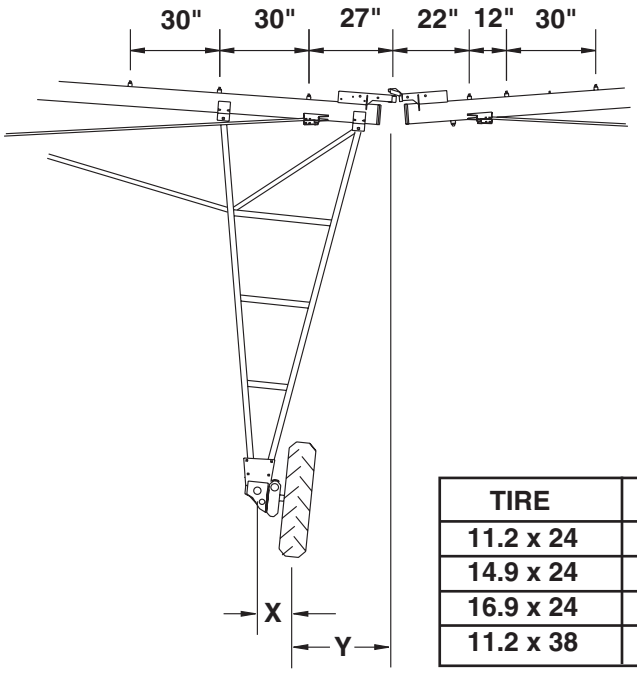
Detail "D"

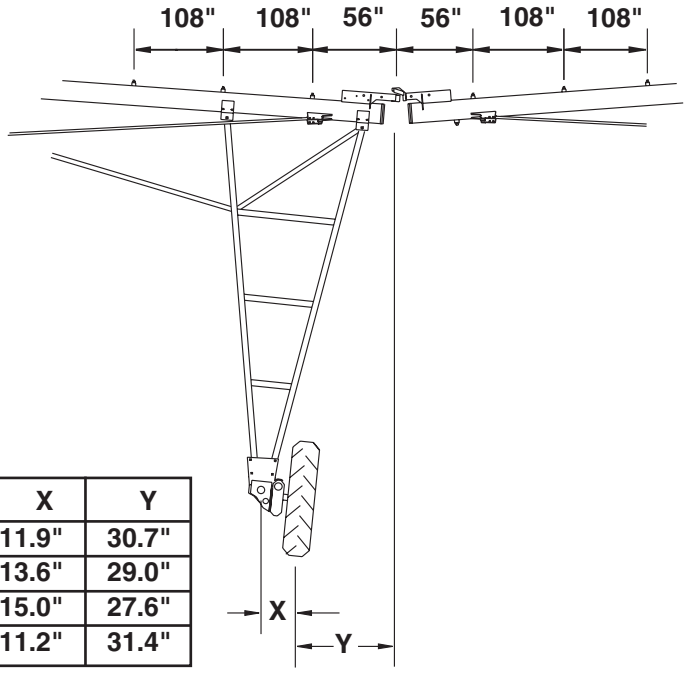
187' Freestanding Span Only



108" Spacing Detail

NOTE: Sprinkler outlets on all 108" spaced intermediate pipe are symmetrically spaced. Specific pipe orientation is not required for correct sprinkler installation.



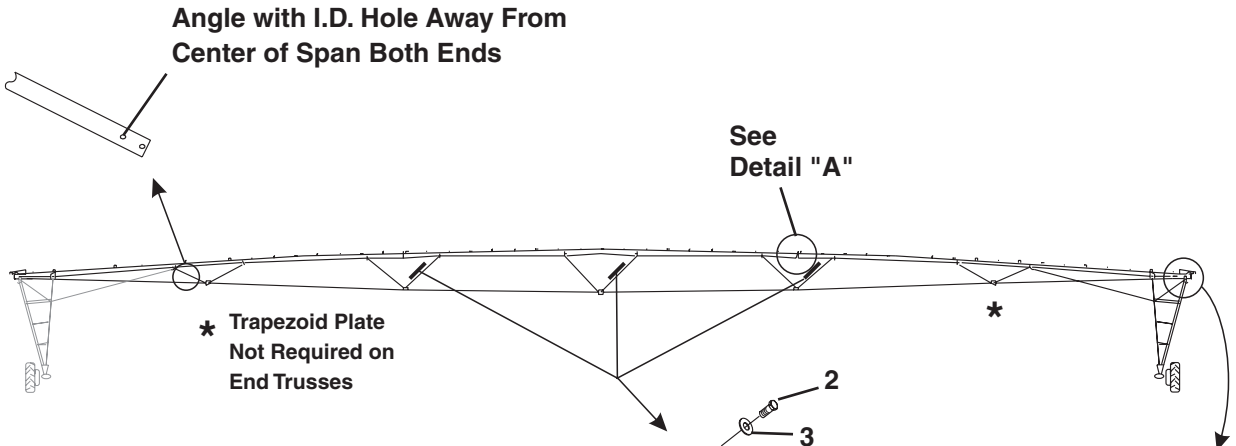


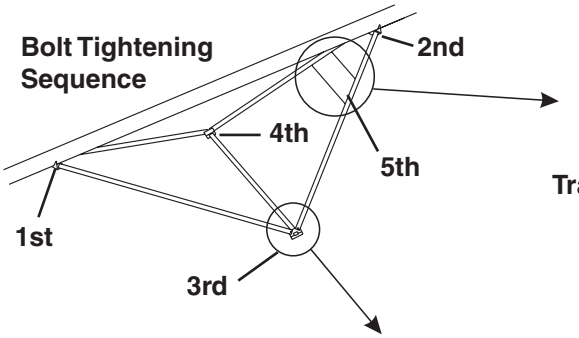
TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

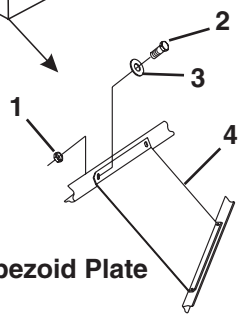
NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

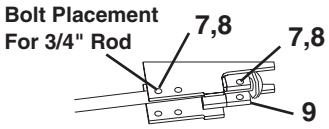
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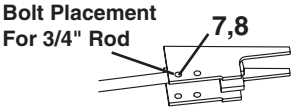




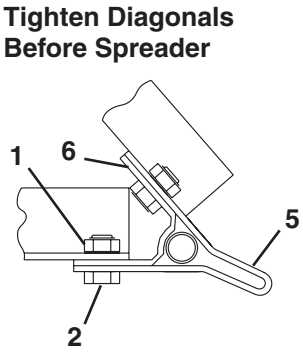


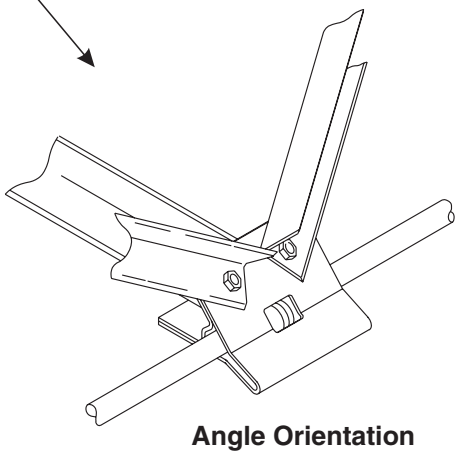


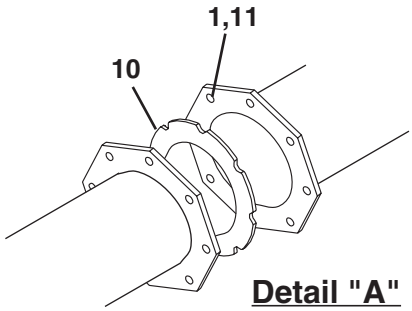
115', 135', 140',
& 160' Spans



180', 185' & 187' Spans







ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	Truss Rod Spacer	9360080
10	6-5/8" Gasket	0991107
11	1/2" x 2" Cap Screw	0161024

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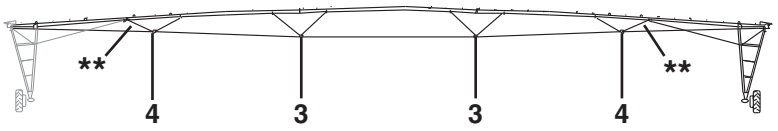
ADD & FREESTANDING SPANS
8-5/8" PIPE
30" & 108" COUPLER SPACING



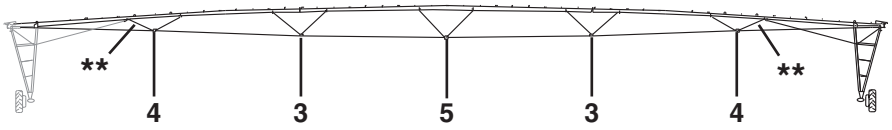
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MODEL 8000

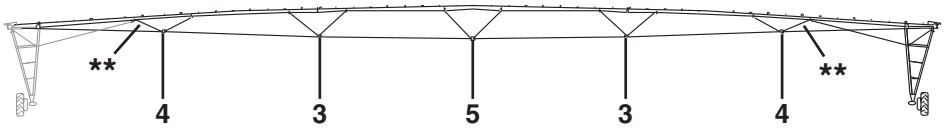
115' Span



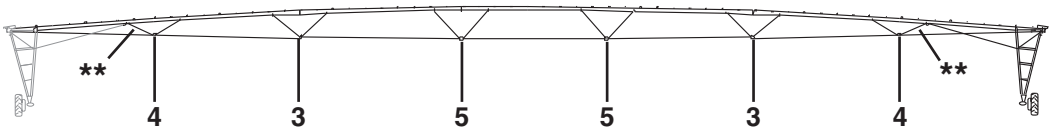
135' Span



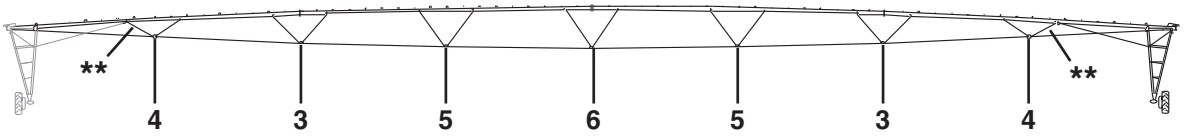
140' Span



160' Span



180' Span

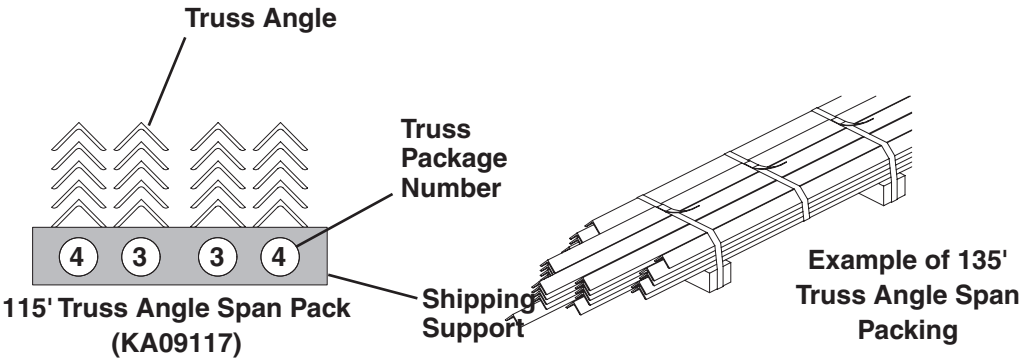


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

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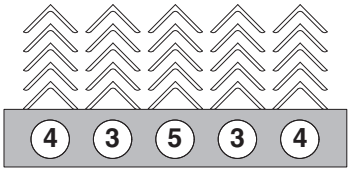
MODEL 8000

Reference Assembly Detail Page for Exact Location of Truss Packages

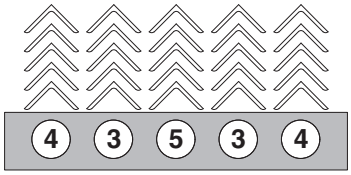


115' Truss Angle Span Pack (KA09117)

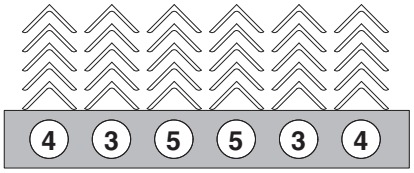
Example of 135' Truss Angle Span Packing



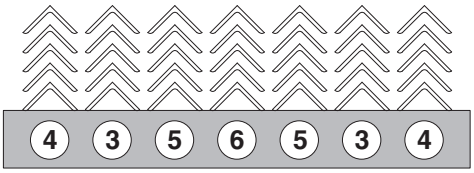
135' Truss Angle Span Pack (KA09047)



140' Truss Angle Span Pack (KA09047)



160' Truss Angle Span Pack (KA09050)



180' Truss Angle Span Pack (KA09025)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

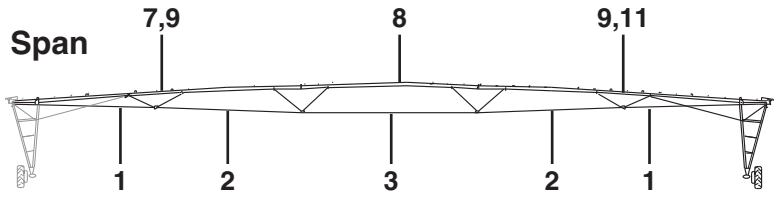
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"

****NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

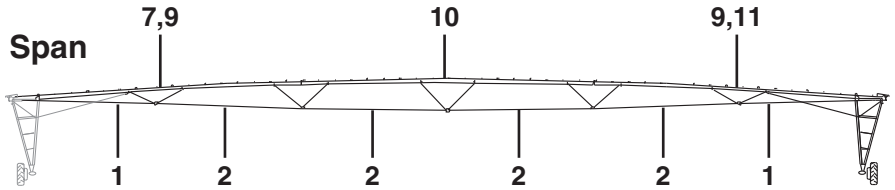
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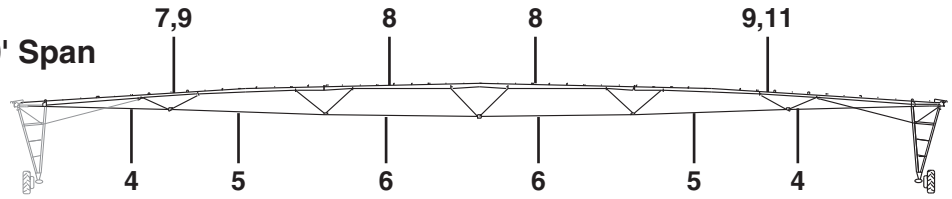
115' Span



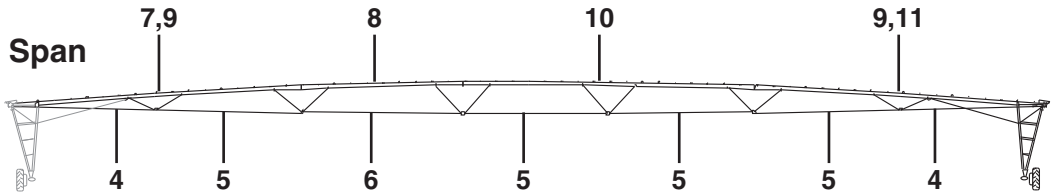
135' Span



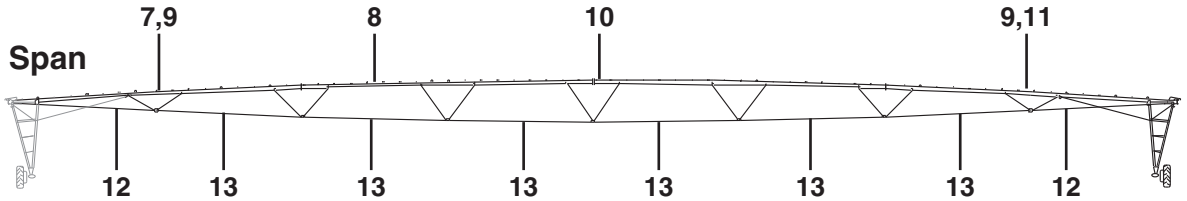
140' Span



160' Span

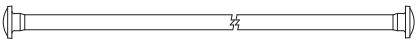


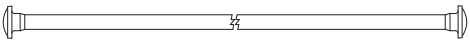
180' Span

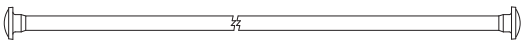


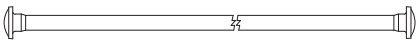
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MODEL 8000

1 **20' - 11.94" Head/Head**  **Yellow**

2 **22' - 2.97" Head/Head**  **No Color**

3 **24' - 7.44" Head/Head**  **Blue**

4 **21' - 6.69" Head/Head**  **Orange**

5 **22' - 3.19" Head/Head**  **Red**

6 **24' - 7.12" Head/Head**  **Green**

12 **21' - 00" Head/Head**  **Metallic Gold**

13 **22'-3.19" Head/Head**  **Lite Blue**

7 **45' - 1.88"** 

8 **24'-10.00"** 

9 **45' - 1.88"** 

10 **44' - 10.75"** 

11 **44' - 10.75"** 

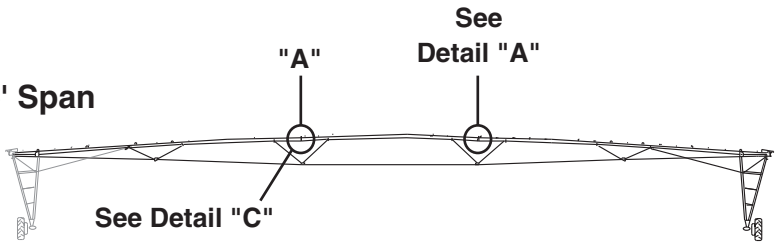
Item	Description	Part # 30"	Part # 108"
1	3/4" Tower Truss Rod (20'-11.94")	9360060	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061	9360061
3	3/4" Intermediate Truss Rod (24'-7.44")	9360062	9360062
4	13/16" Tower Truss Rod (21'-0")	9360064	9360064
5	13/16" Std. Inter. Truss Rod (22'-3.19")	9360065	9360065
6	13/16" Intermediate Truss Rod (24'-7.12")	9360066	9360066
12	7/8" Tower Truss Rod (21' - 0")	9363847	9363847
13	7/8" Tower Truss Rod (22' - 3.19")	9363848	9363848
7	Swivel Pipe (45'-1.88")	9360092	9360086
8	25' Std. Intermediate Pipe (24'-10.00")	9360089	9360117
9	Fixed Pipe (45'-1.88")	9360091	9360085
10	45' Standard Inter. Pipe (44'-10.75")	9360090	9360125
11	Transition Pipe (44'-10.75")	9360093	9360088

NOTE: Two (2) fixed pipes and drive units are required on all freestanding spans.

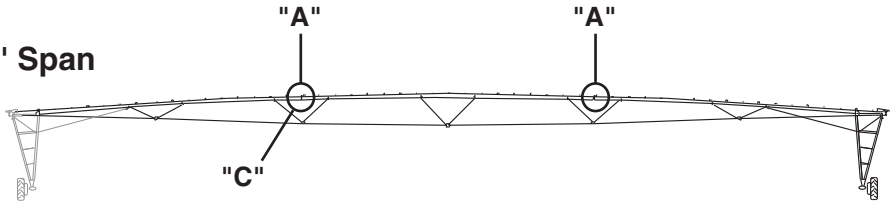
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MODEL 8000

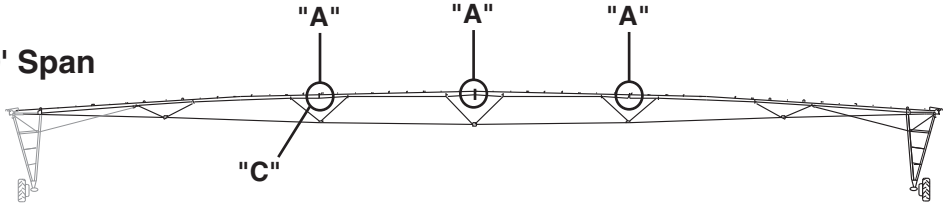
115' Span



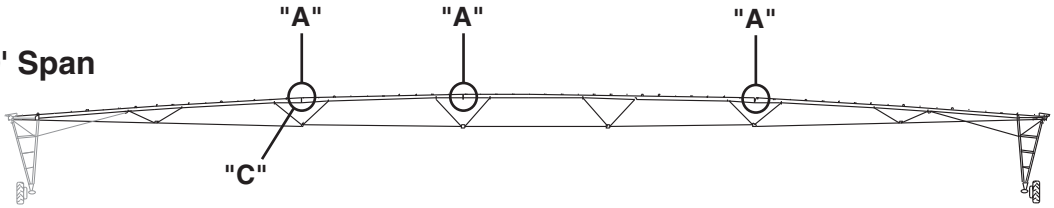
135' Span



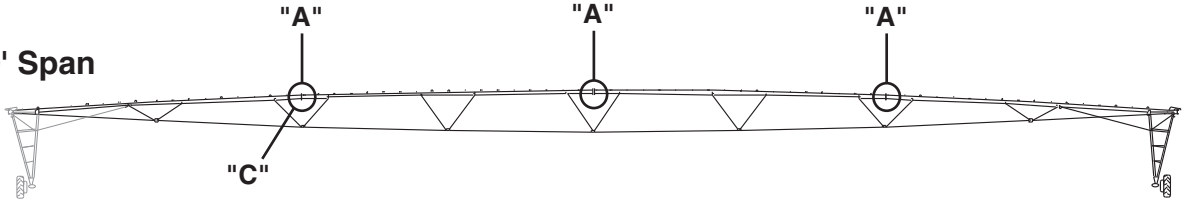
140' Span



160' Span



180' Span

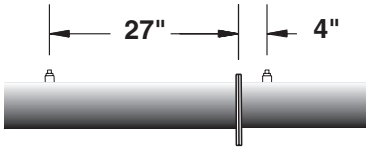


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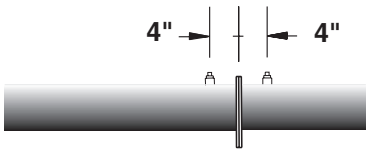
30" Spacing Details

Detail "A"



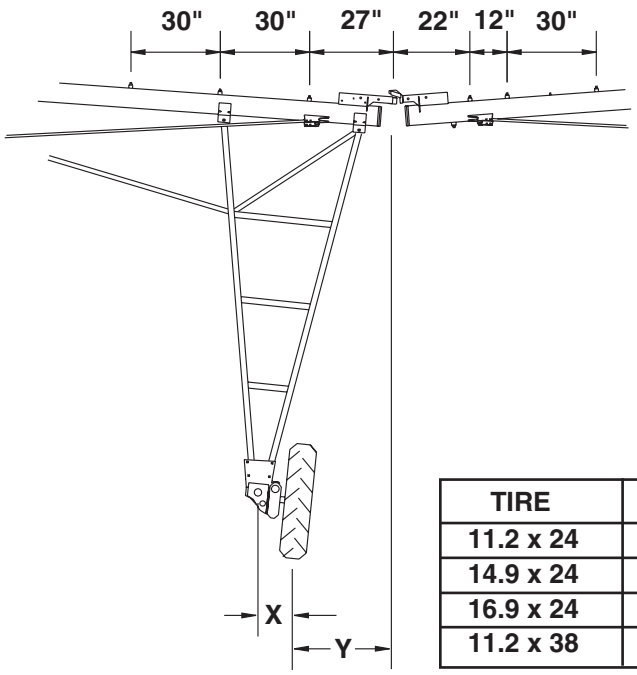
Detail "C"

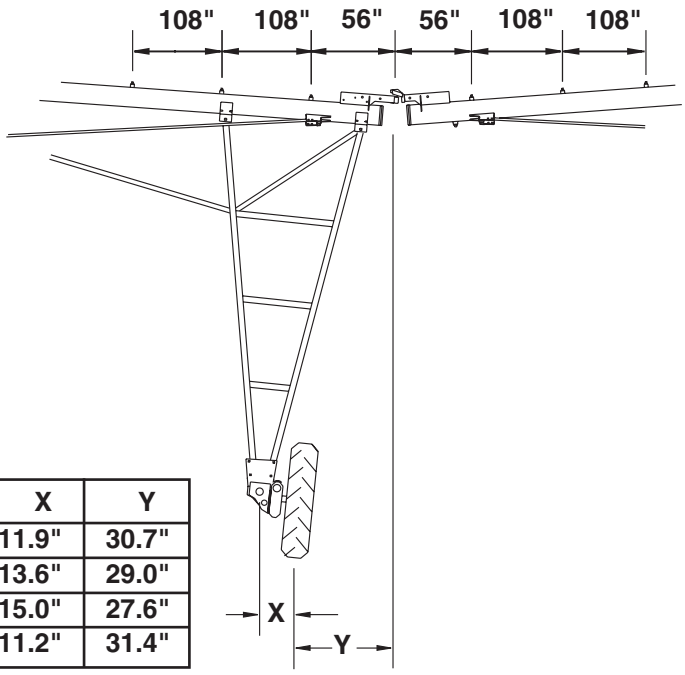
Freestanding Span Only



108" Spacing Detail

NOTE: Sprinkler outlets on all 108" spaced intermediate pipe are symmetrically spaced. Specific pipe orientation is not required for correct sprinkler installation.



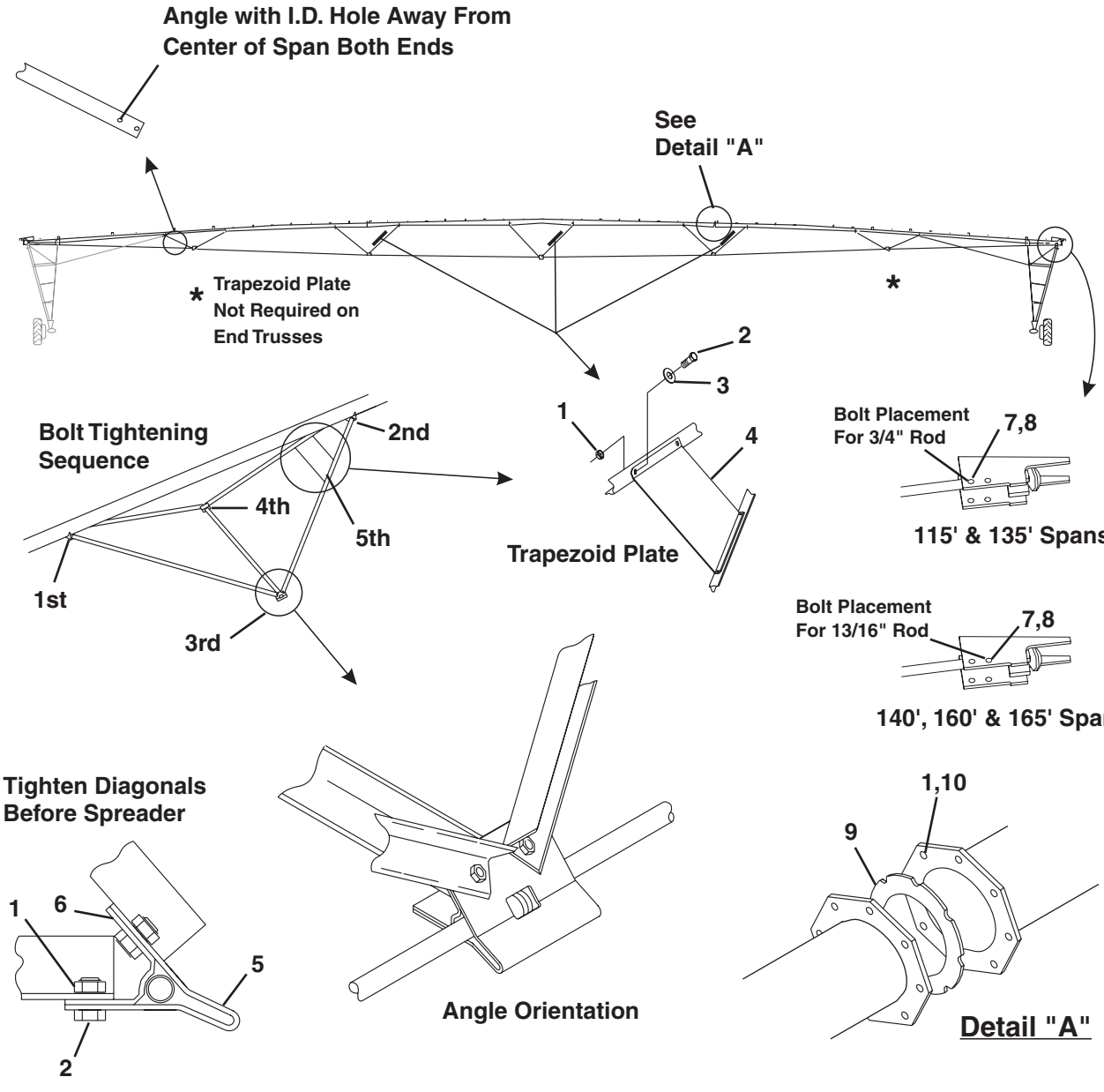


TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

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MODEL 8000



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	8-5/8" Gasket	0994500
10	1/2" x 2" Cap Screw	0161024

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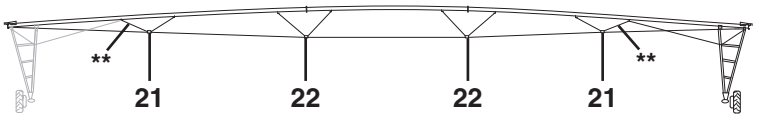
ADD & FREESTANDING SPANS
10" PIPE
30" COUPLER SPACING



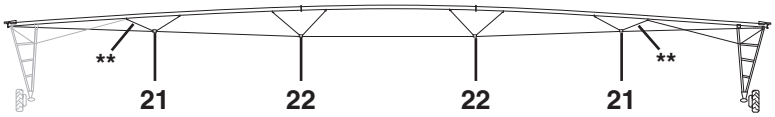
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MODEL 8000

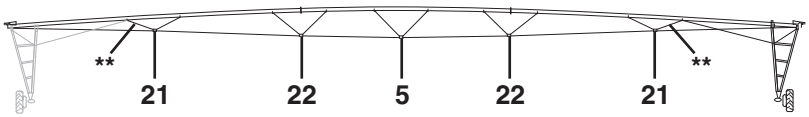
112.5' Span



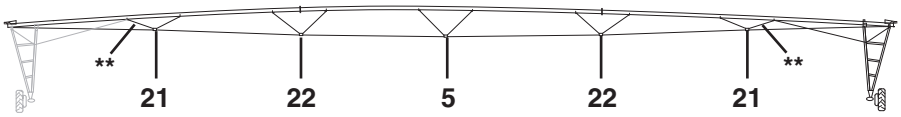
115' Span



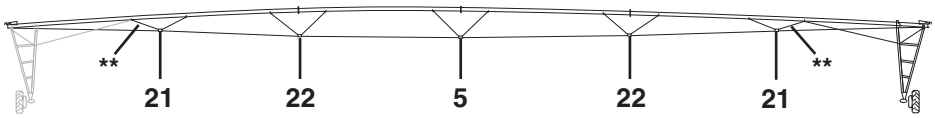
120' Span



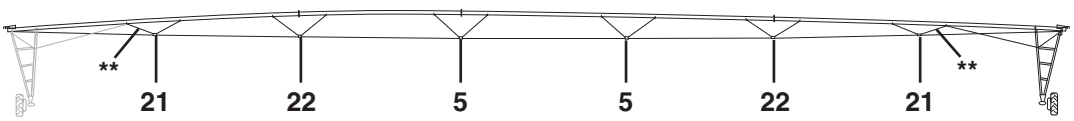
135' Span



140' Span



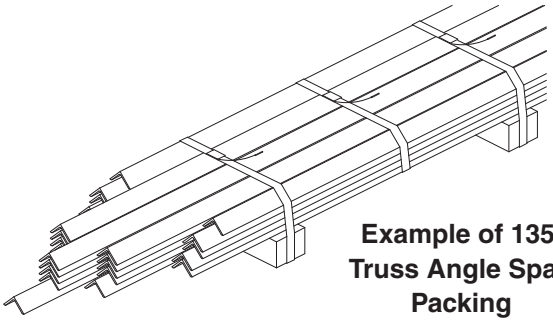
160' Span



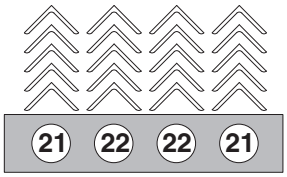
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MODEL 8000

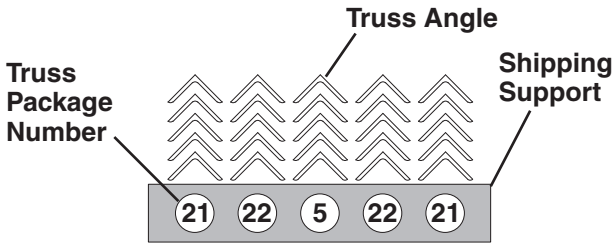
Reference Assembly Detail Page for Exact Location of Truss Packages



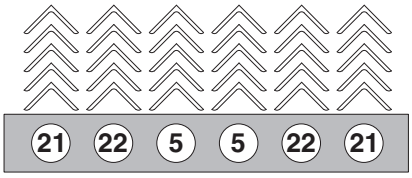
Example of 135' Truss Angle Span Packing



112.5' & 115' Truss Angle Span Pack (KA09551)



120', 135' & 140' Truss Angle Span Pack (KA09552)



160' Truss Angle Span Pack (KA09930)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets.

THESE PARTS MUST BE ORDERED SEPARATELY.

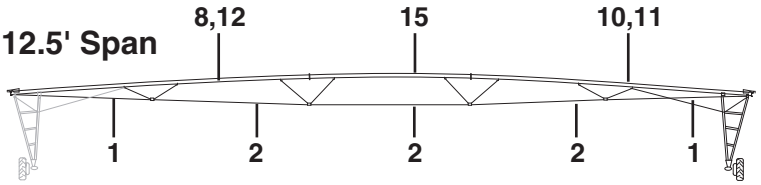
TRUSS PKG #	DIAGONAL		SPREADER	
	Overall Part #	Length	Overall Part #	Length
21	9361754	65.45"	9361755	61.01"
	9361753	63.60"	-	-
22	9361756	88.36"	9361757	101.47"
5	9360054	97.25"	9360055	115.03"

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

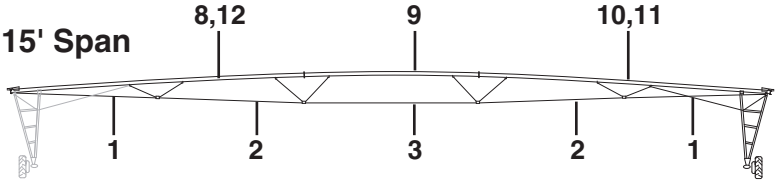
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MODEL 8000

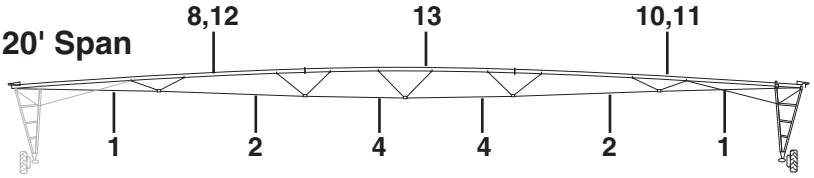
112.5' Span



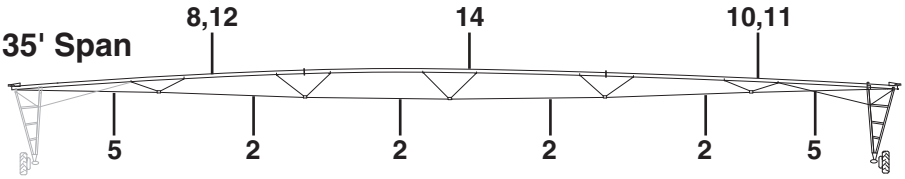
115' Span



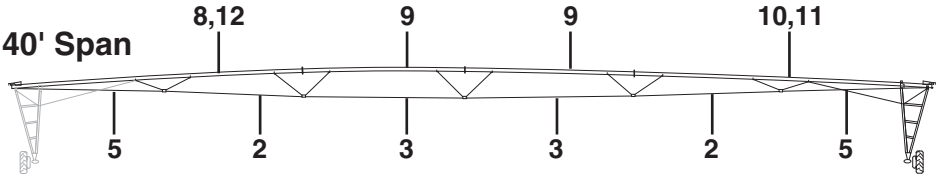
120' Span



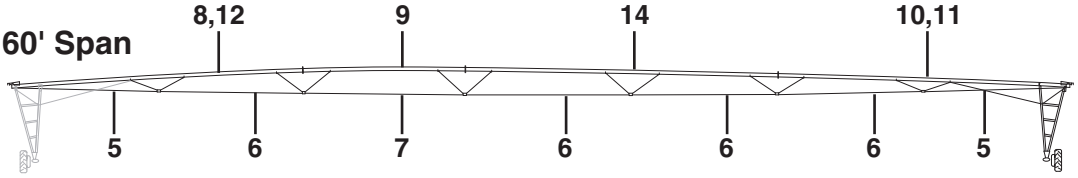
135' Span



140' Span



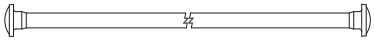
160' Span

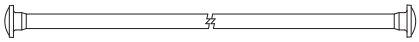


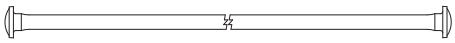
NOTE: Two (2) fixed pipes and drive units are required on all freestanding spans.

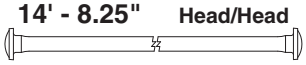
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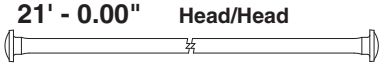
MODEL 8000

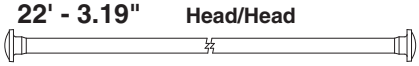
1 **20' - 11.94"** Head/Head  Yellow 3/4" Tower **9360060**

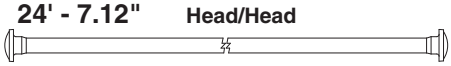
2 **22' - 2.97"** Head/Head  No Color 3/4" Stand. Inter. **9360061**

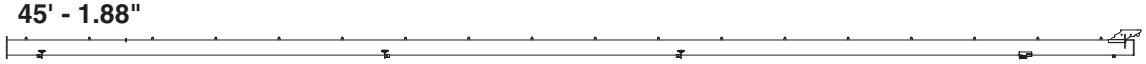
3 **24' - 7.44"** Head/Head  True Blue Dark 3/4" Stand. Inter. **9360062**

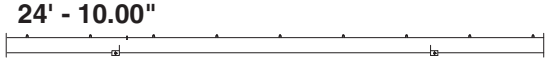
4 **14' - 8.25"** Head/Head  Black 3/4" Stand. Inter. **9361764**

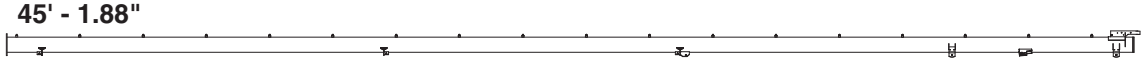
5 **21' - 0.00"** Head/Head  Orange 13/16" Tower **9360064**

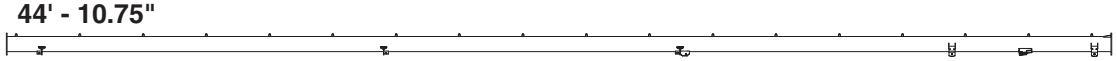
6 **22' - 3.19"** Head/Head  Red 13/16" Stand. Inter. **9360065**

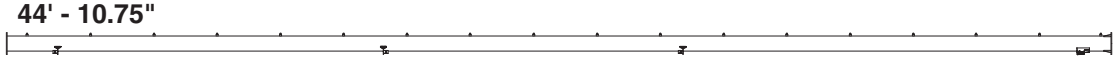
7 **24' - 7.12"** Head/Head  Hunter Green Dark 13/16" Stand Inter. **9360066**

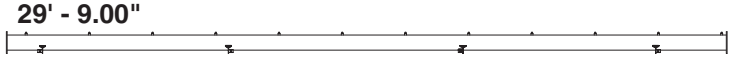
8 **45' - 1.88"** 

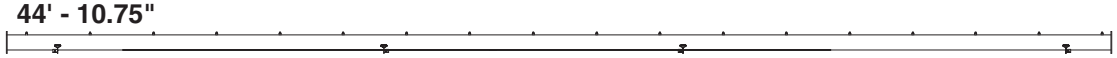
9 **24' - 10.00"** 

10 **45' - 1.88"** 

11 **44' - 10.75"** 

12 **44' - 10.75"** 

13 **29' - 9.00"** 

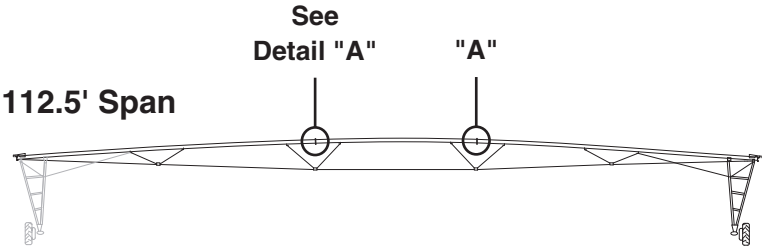
14 **44' - 10.75"** 

Item	Description	30" Part #
8	Swivel Pipe (45'-1.88")	9361751
9	25' Std. Intermediate Pipe (24'-10.00")	9361762
10	Fixed Pipe (45'-1.88")	9361750
11	Transition Pipe (44'-10.75")	9361748
12	Pivot Pipe (44'-10.75")	9361747
13	30' Intermediate Pipe (29'-9.00")	9361760
14	45' Intermediate Pipe (44'-10.75")	9361749

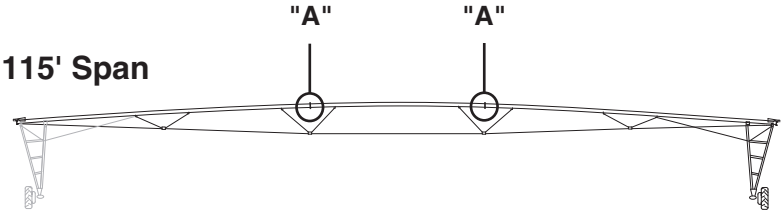
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MODEL 8000

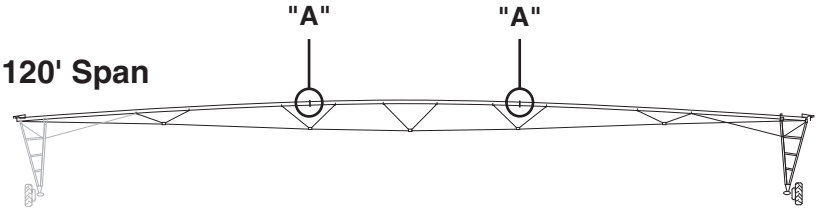
112.5' Span



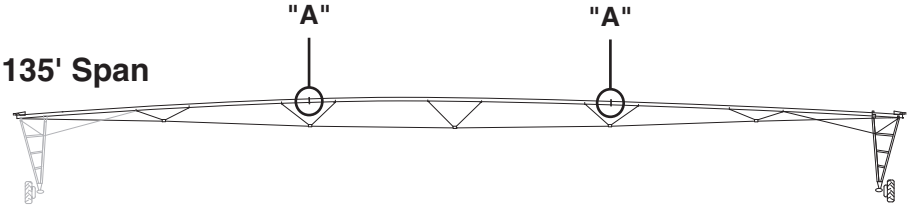
115' Span



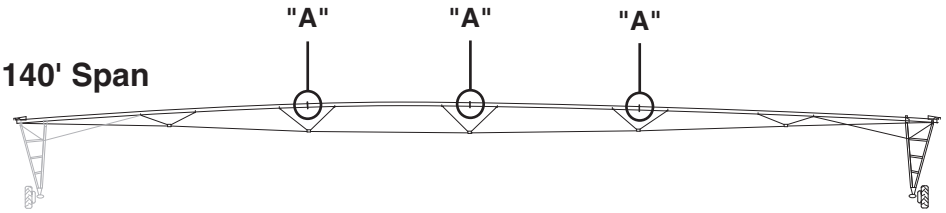
120' Span



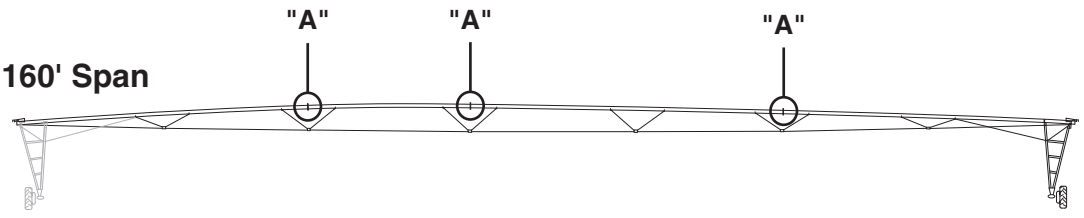
135' Span



140' Span



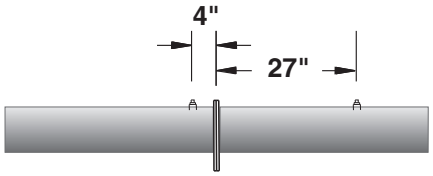
160' Span

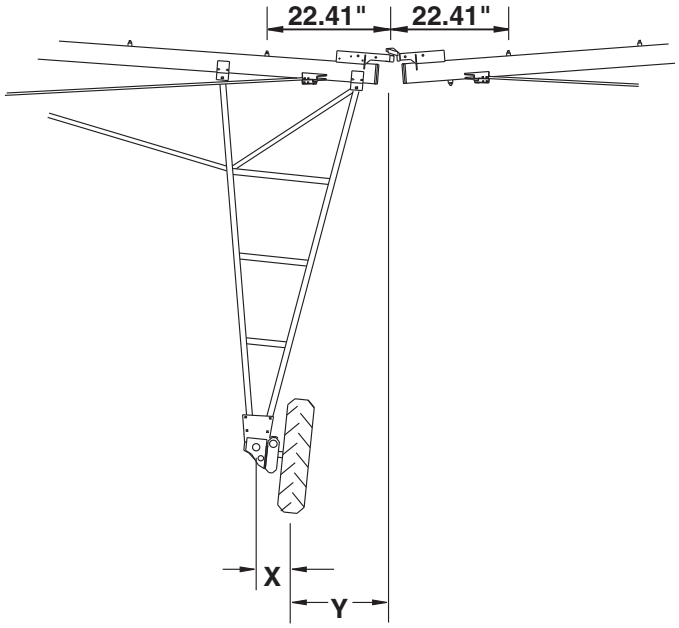


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MODEL 8000

Detail "A"



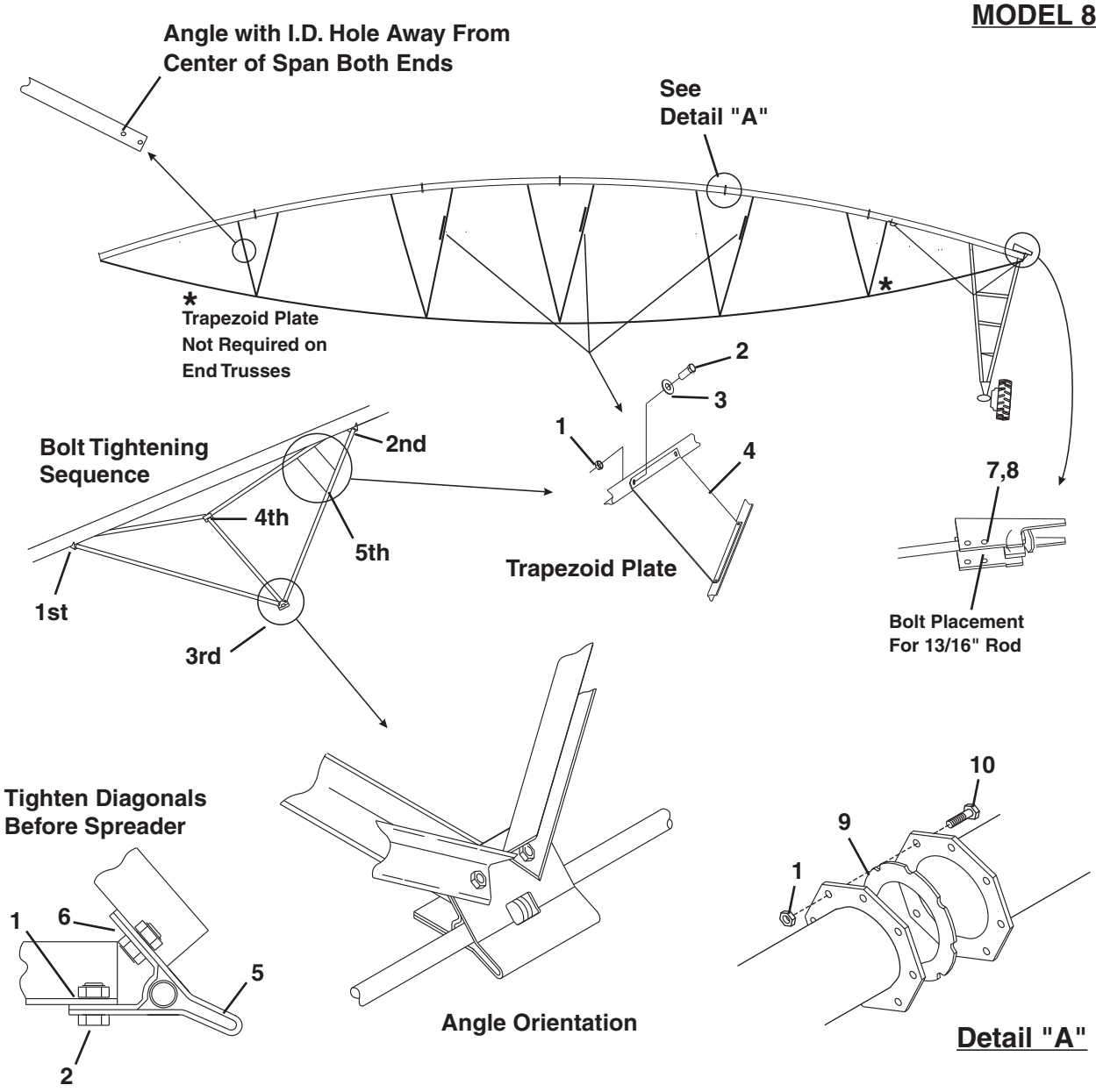


TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

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MODEL 8000



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	10" Gasket	0992385
10	1/2" x 2" Cap Screw	0161024

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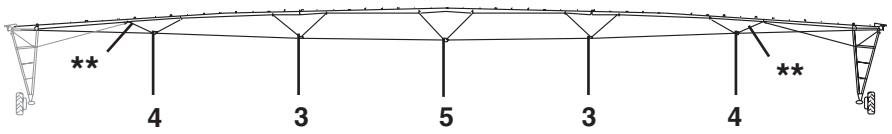
ADD & FREESTANDING SPANS
EXPORT 6-5/8" PIPE
90" COUPLER SPACING



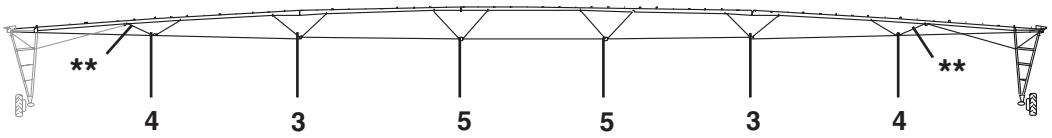
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MODEL 8000

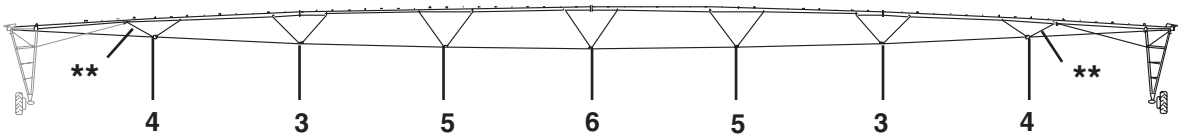
135' Span



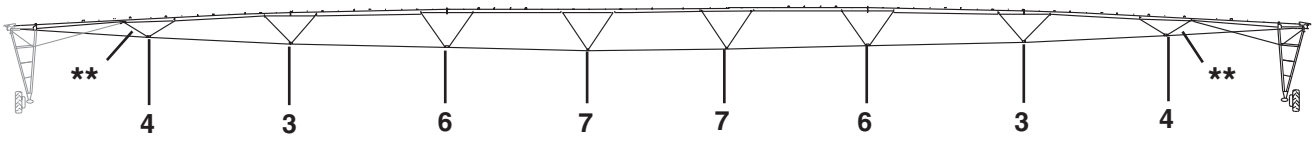
157.5' Span



180' Span



202.5' Span

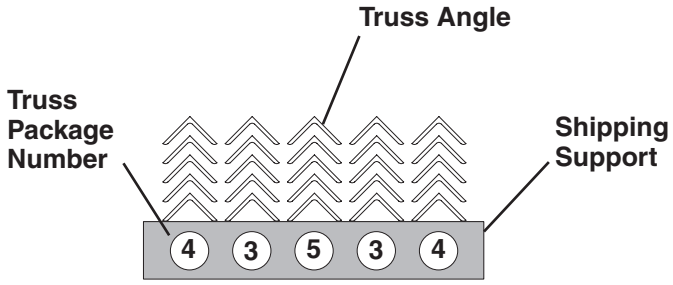


** NOTE: This is the location of the longer diagonal with the I.D. hole.

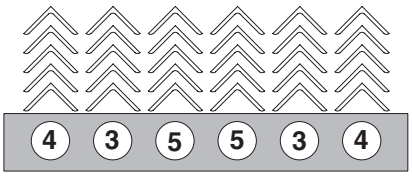
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MODEL 8000

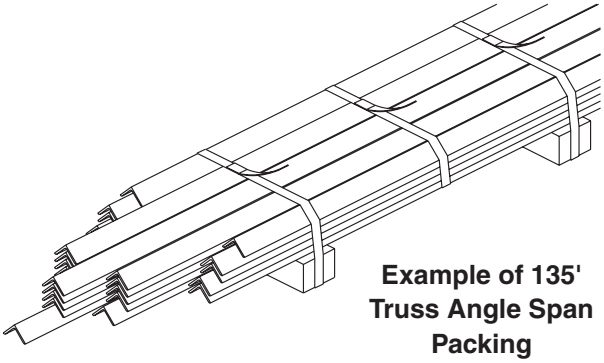
Reference Assembly Detail Page for Exact Location of Truss Packages



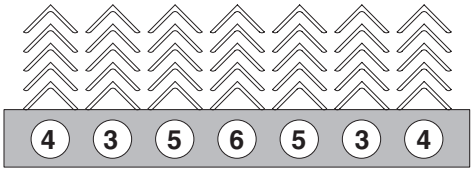
135' Truss Angle Span Pack (KA09047)



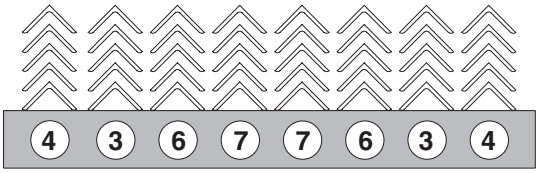
157.5' Truss Angle Span Pack (KA09050)



Example of 135' Truss Angle Span Packing



180' Truss Angle Span Pack (KA09025)



202.5' Truss Angle Span Pack (KA09026)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

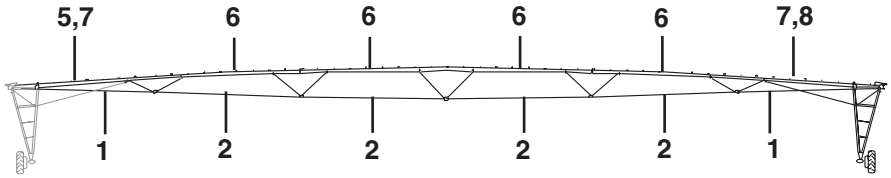
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"
7	9360058	112.09"	9360059	136.84"

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

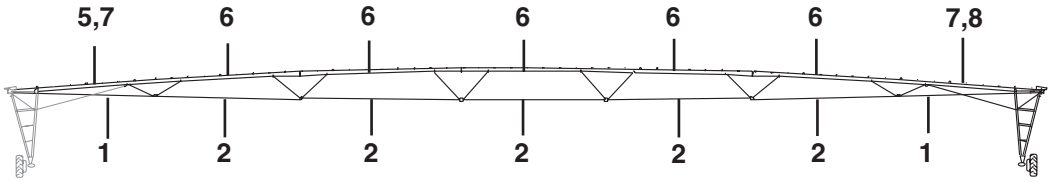
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MODEL 8000

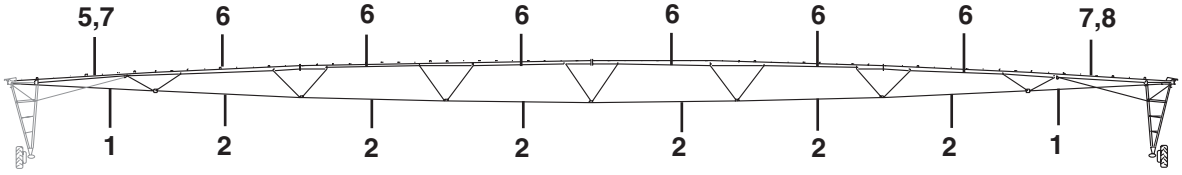
135' Span



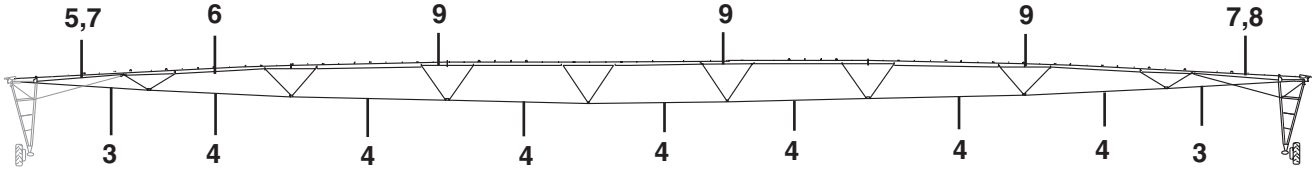
157.5' Span



180' Span

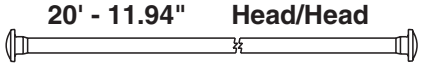


202.5' Span

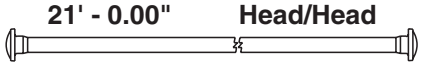


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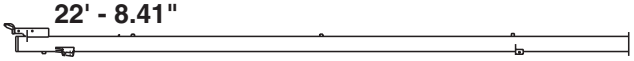
MODEL 8000

1 **20' - 11.94" Head/Head**  **Yellow**

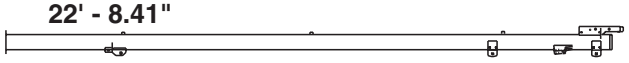
2 **22' - 2.97" Head/Head**  **No Color**

3 **21' - 0.00" Head/Head**  **Orange**

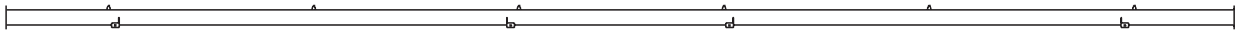
4 **22' -3.19" Head/Head**  **Red**

5 **22' - 8.41"** 

6 **22' - 5.28"** 

7 **22' - 8.41"** 

8 **22' - 5.28"** 

9 **44' - 10.75"** 

Item	Description	Part #
1	3/4" Tower Truss Rod (20'-11.94")	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061
3	13/16" Tower Truss Rod (21'-0")	9360064
4	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
5	Swivel Pipe (22'-8.41")	9360128
6	22-1/2' Std. Intermediate Pipe (22'-5.28")	9360124
7	Fixed Pipe (22'-8.41")	9360126
8	Last Pipe (22'-5.28")	9360132
9	45' Intermediate Pipe (44'-10.75")	9360231

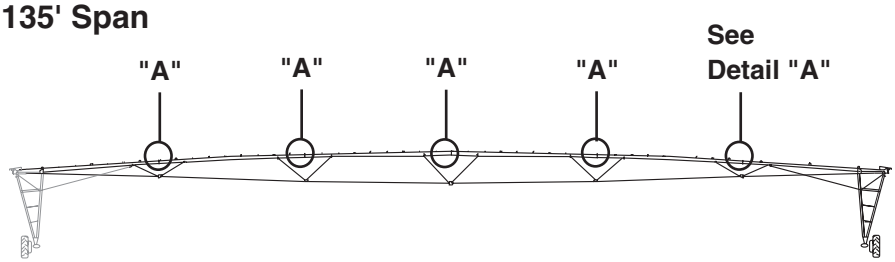
NOTE: Two (2) fixed pipes and drive units are required on all freestanding spans.

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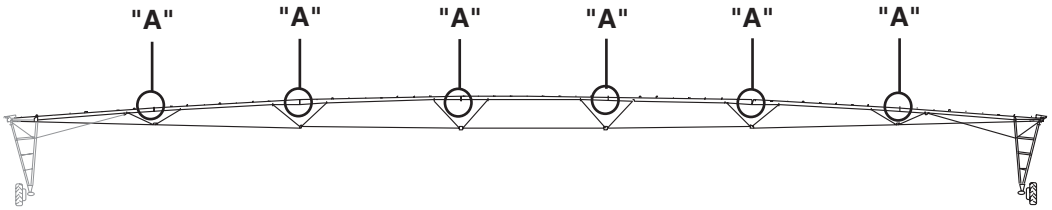
Functional Area	Assembly / Part	Rev# 06-06
6-5/8" Export Pipe - 90" Spacing	Sprinkler Coupling Locations	

MODEL 8000

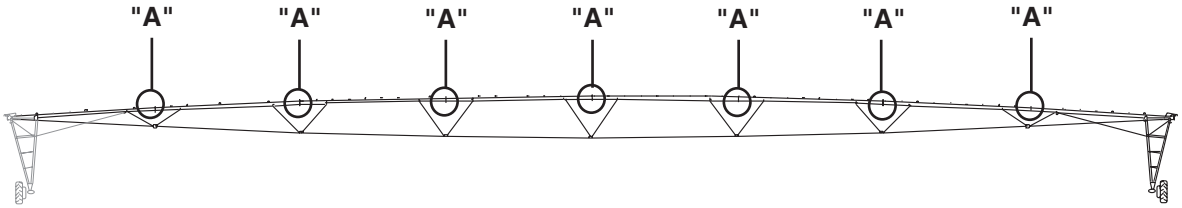
135' Span



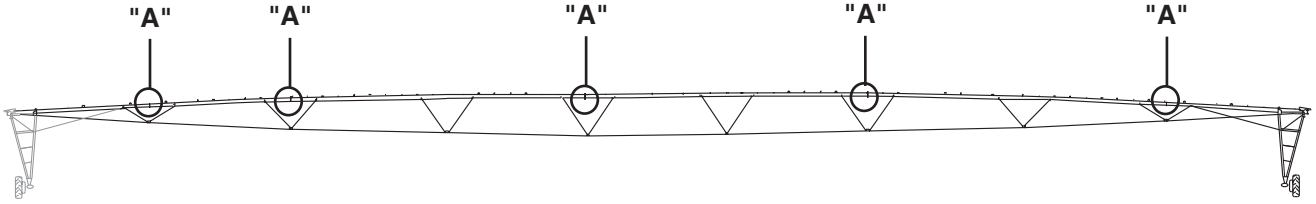
157.5' Span



180' Span



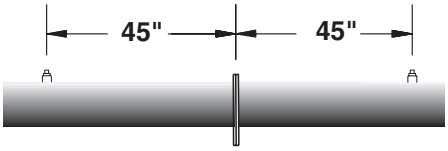
202.5' Span

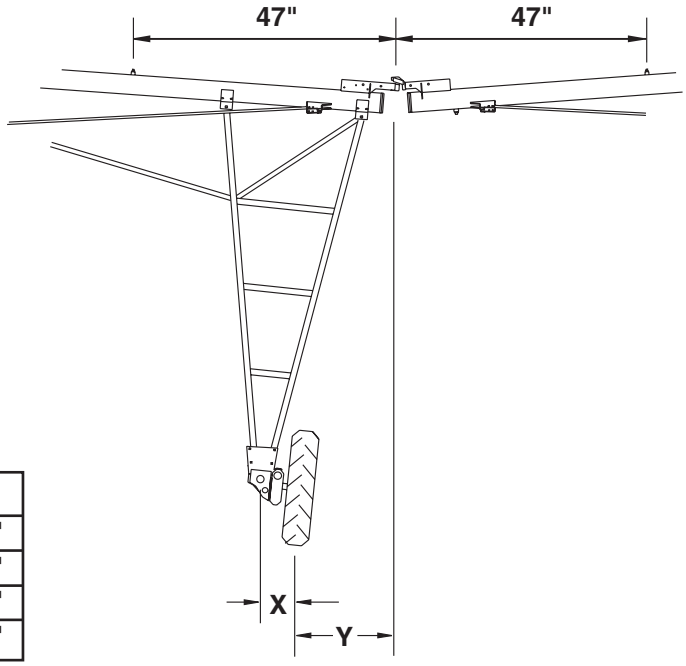


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MODEL 8000

Detail "A"



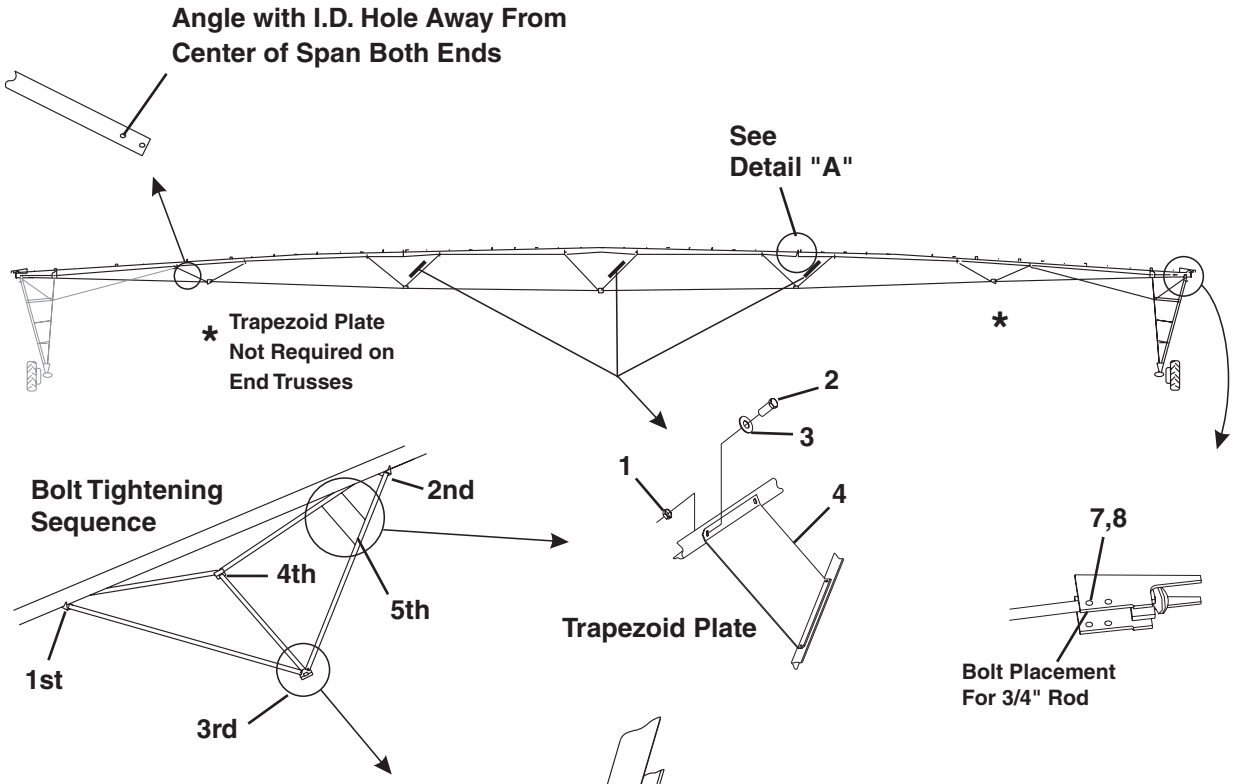


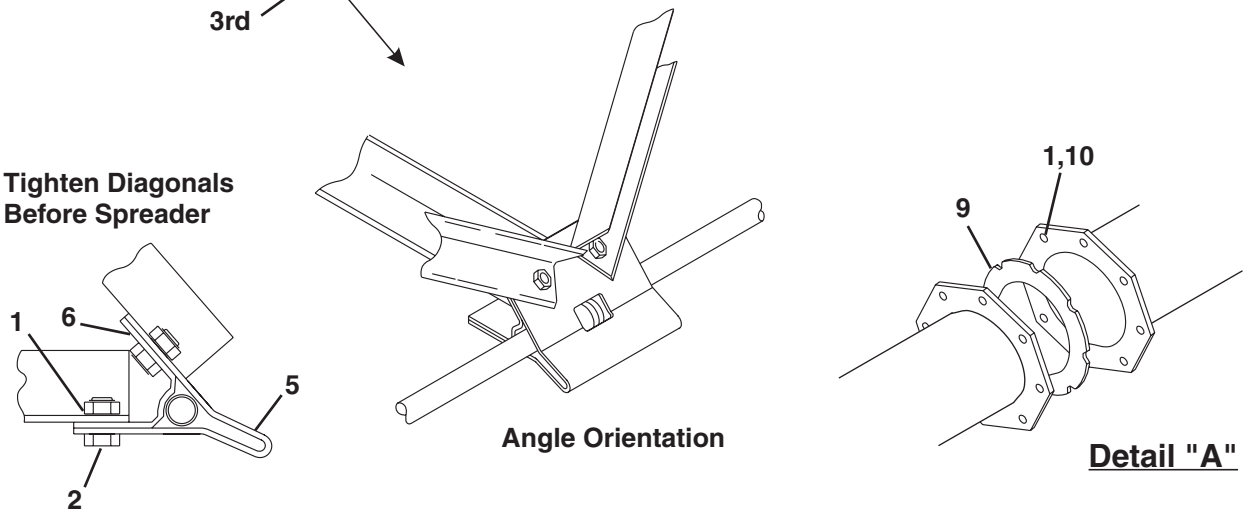
TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

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MODEL 8000





ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	6-5/8" Gasket	0991107
10	1/2" x 2" Cap Screw	0161024

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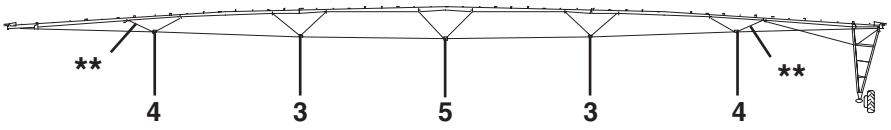
ADD & FREESTANDING SPANS
EXPORT 8-5/8" PIPE
90" COUPLER SPACING



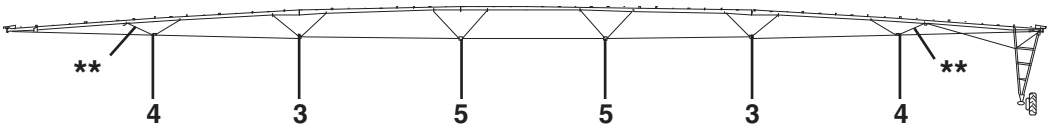
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MODEL 8000

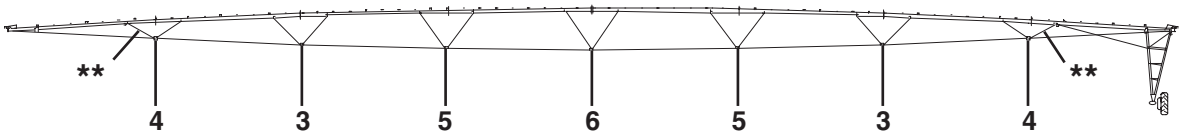
135' Span



157.5' Span



180' Span

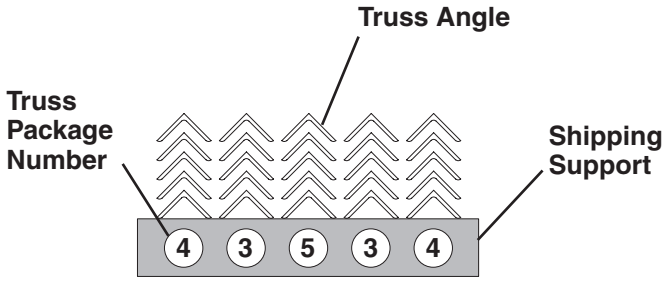


**** NOTE: This is the location of the longer diagonal with the I.D. hole.**

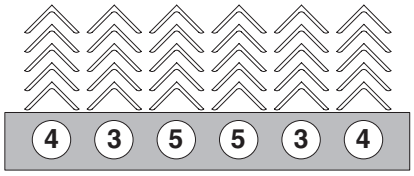
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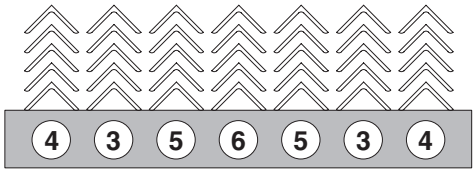
Reference Assembly Detail Page for Exact Location of Truss Packages



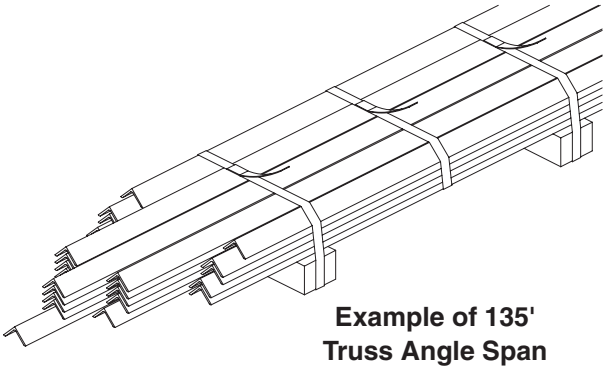
135' Truss Angle Span Pack (KA09047)



157.5' Truss Angle Span Pack (KA09050)



180' Truss Angle Span Pack (KA09025)



Example of 135' Truss Angle Span Packing

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

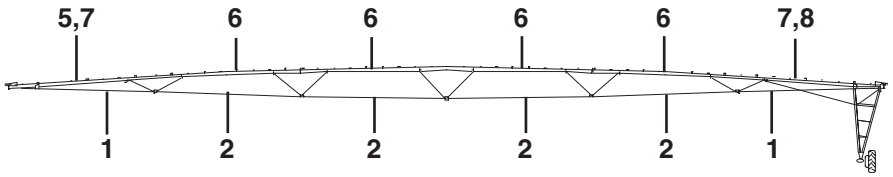
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"

** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.

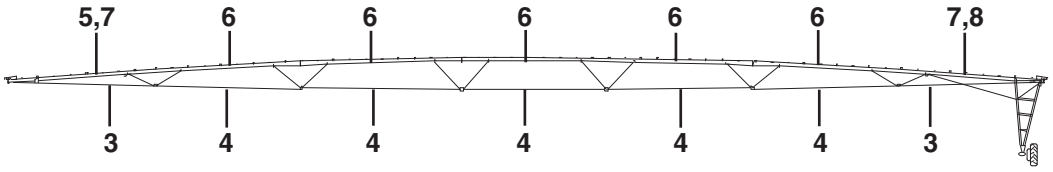
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MODEL 8000

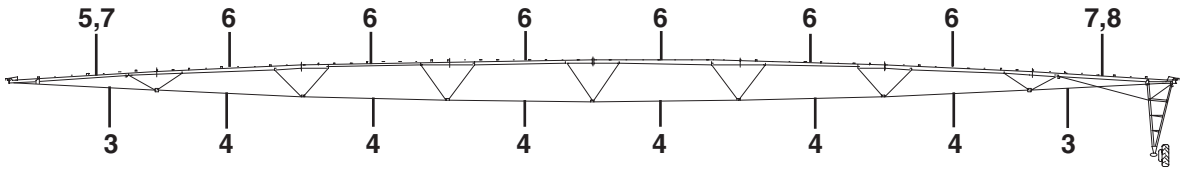
135' Span



157.5' Span

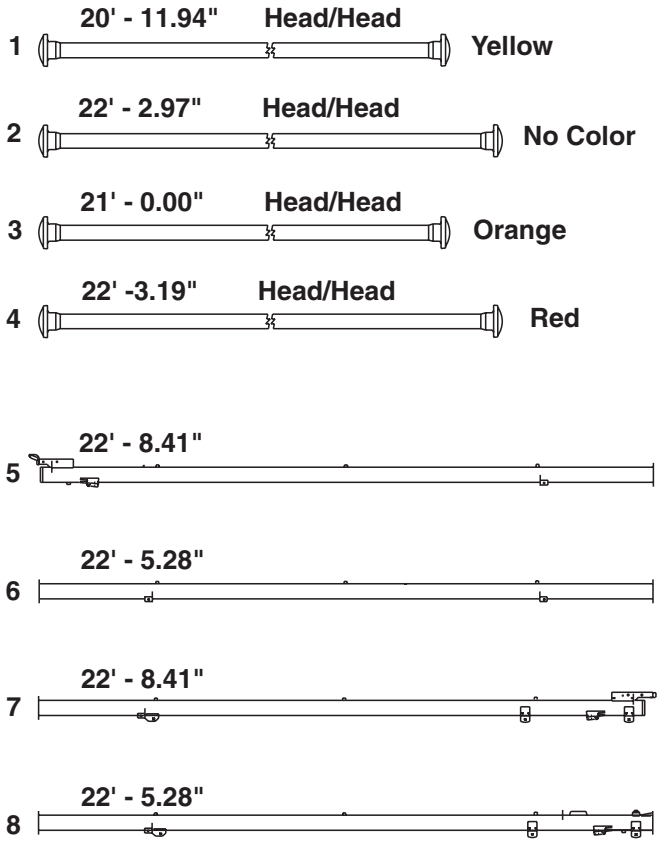


180' Span



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MODEL 8000



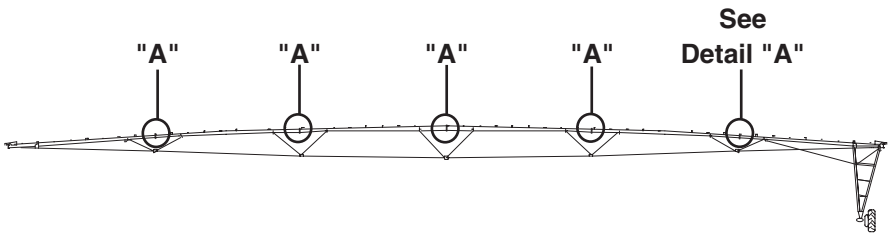
Item	Description	Part #
1	3/4" Tower Truss Rod (20'-11.94")	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061
3	13/16" Tower Truss Rod (21'-0")	9360064
4	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
5	Swivel Pipe (22'-8.41")	9360098
6	22-1/2' Std. Intermediate Pipe (22'-5.28")	9360094
7	Fixed Pipe (22'-8.41")	9360096
8	Transition Pipe (22'-5.28")	9360101

NOTE: Two (2) fixed pipes and drive units are required on all freestanding spans.

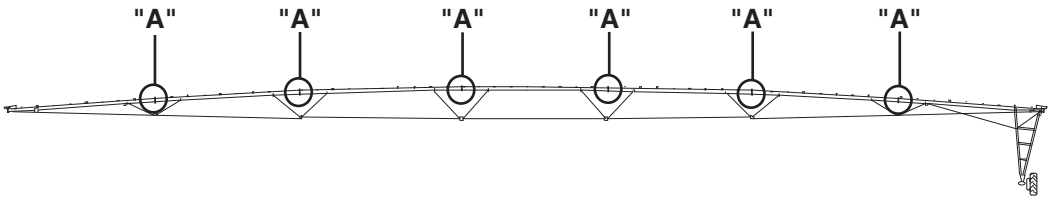
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MODEL 8000

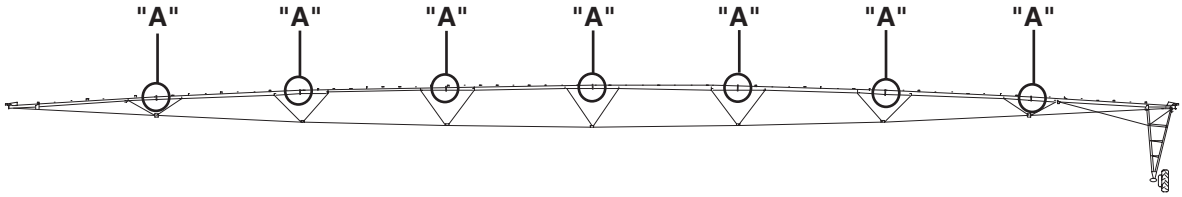
135' Span



157.5' Span



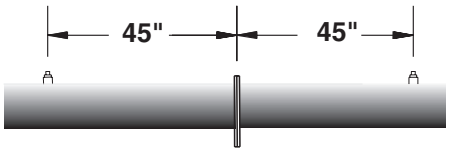
180' Span

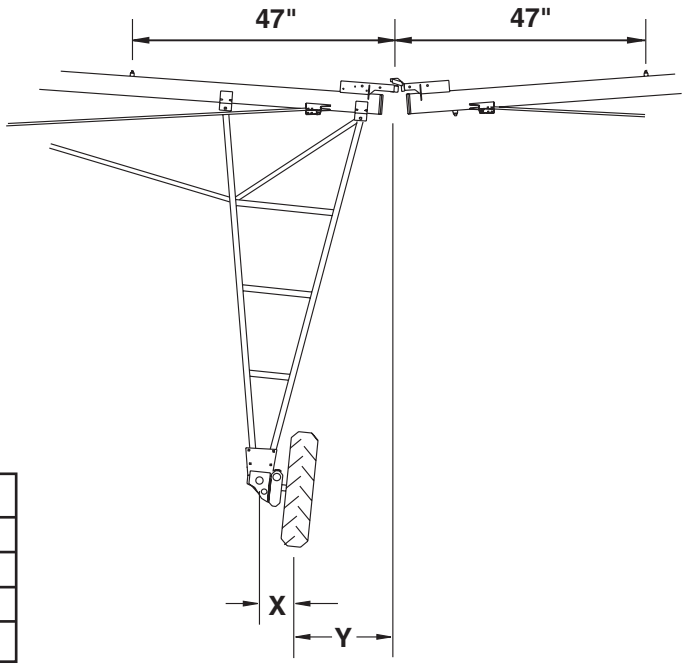


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MODEL 8000

Detail "A"



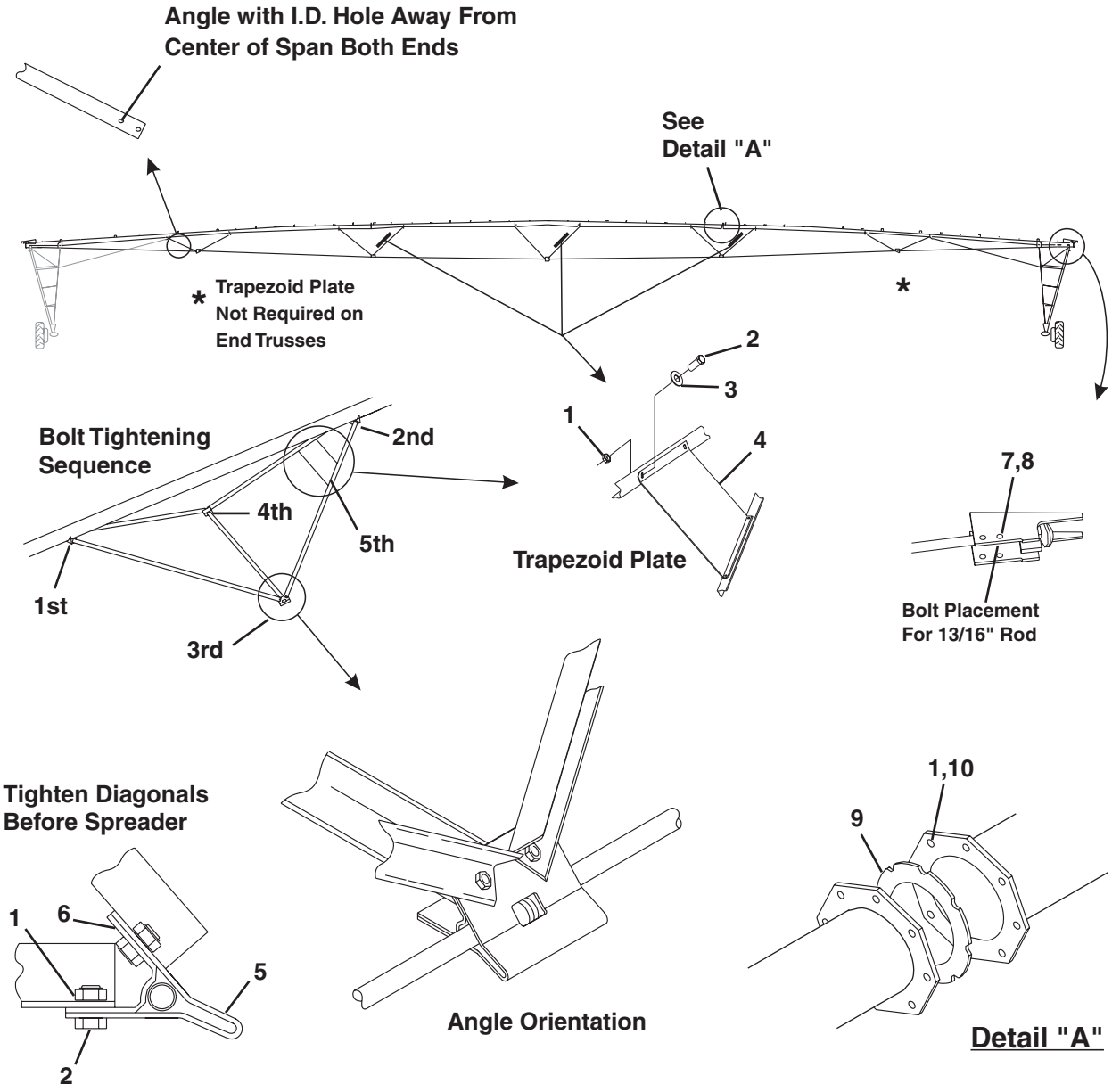


TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

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MODEL 8000



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	8-5/8" Gasket	0994500
10	1/2" x 2" Cap Screw	0161024

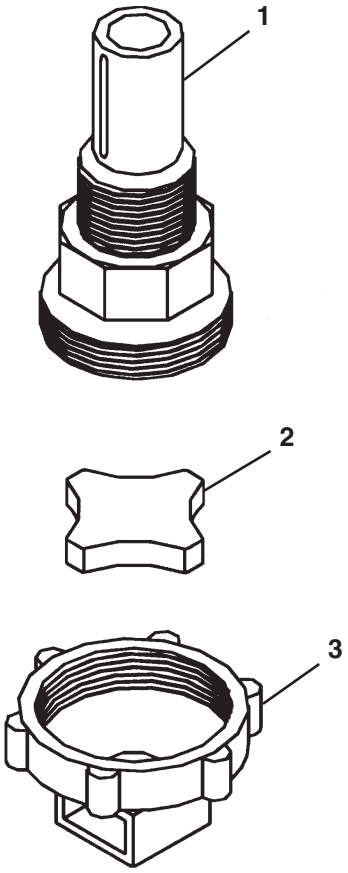
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PIPELINE ACCESSORIES



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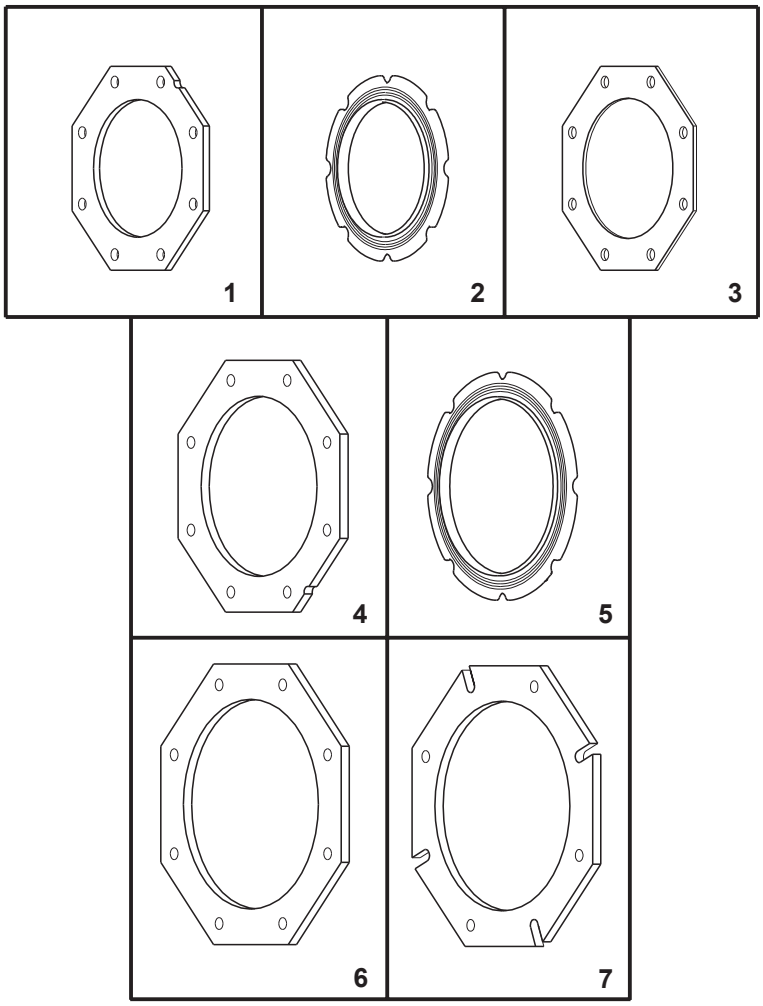
MODEL 8000



ITEM	DESCRIPTION	PART #
1	Upper Drain Body	0246170
	Upper Drain Body Alum (Not Shown)	0232023
2	Drain Seal	0232568
3	Lower Drain Body	0232004

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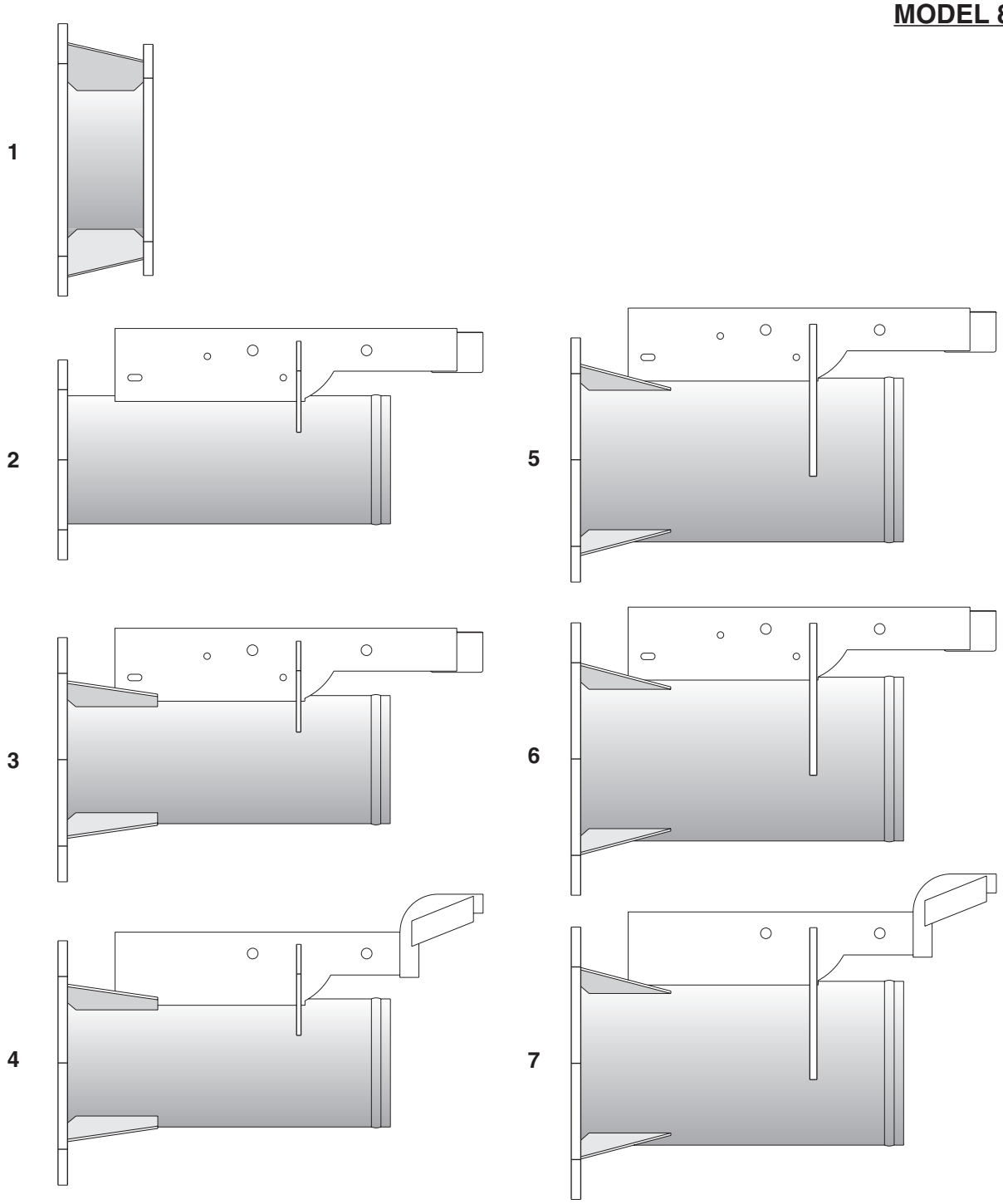
MODEL 8000



ITEM	DESCRIPTION	PART #
1	6-5/8" Pipe Flange	1800010
2	6-5/8" Pipe Gasket	0991107
3	6-5/8" Flat Rubber Gasket	0992211
4	8-5/8" Pipe Flange	9360121
5	8-5/8" Pipe Gasket	0994500
6	10" Pipe Flange	1702309
7	10 " Flat Rubber Gasket	0992385

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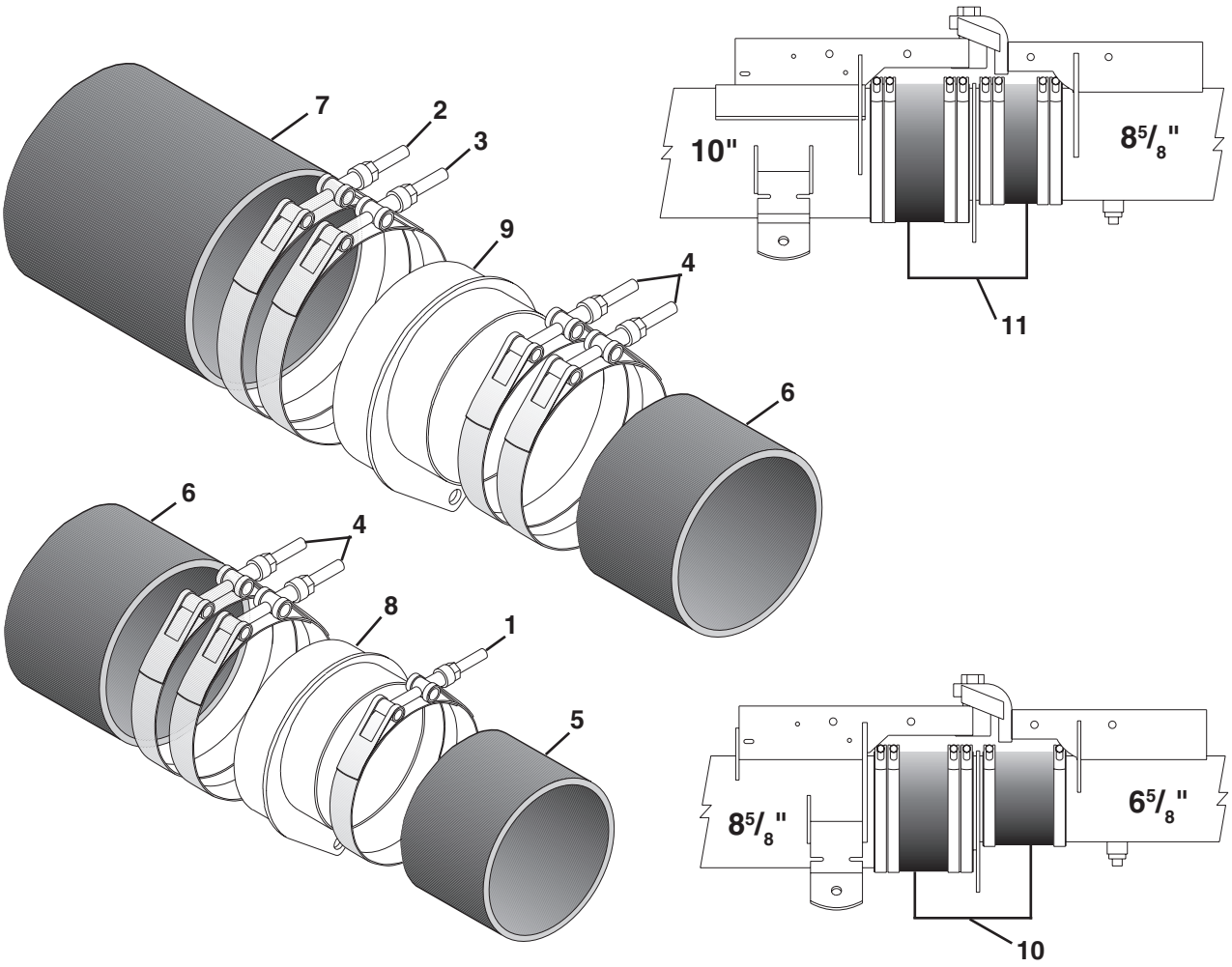
MODEL 8000



ITEM	DESCRIPTION	PART #
1	10" to 8" Reducer Transition	1780584
2	6-5/8" to 6-5/8" Transition Assembly	1730255
3	8-5/8" to 6-5/8" Transition Assembly	9360013
4	8-5/8" to 6-5/8" Transition Assembly	9330006
5	8-5/8" to 8-5/8" Transition Assembly	9330005
6	10" to 8-5/8" Transition Assembly	9360017
7	10" to 8-5/8" Transition Assembly	9330007

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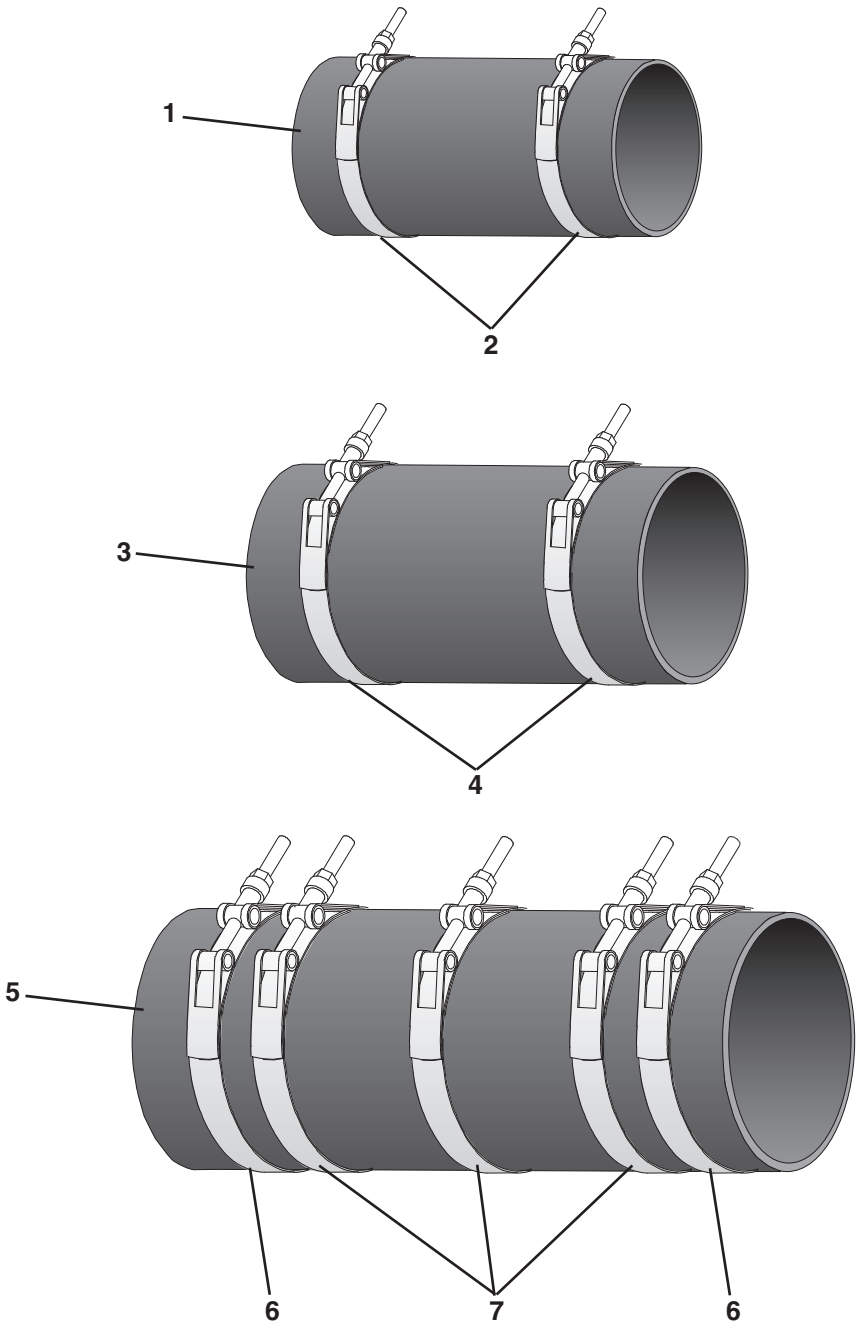
MODEL 8000



ITEM	DESCRIPTION	PART #
1	Clamp - 6-5/8"	0991087
2	Clamp - 10"	0992386
3	Clamp - 10" with Liner	0992441
4	Clamp - 8-5/8"	0994507
5	Hose - 6-5/8" x 8" Long	9360335
6	Hose - 8-5/8" x 8" Long	9360336
7	Hose - 10" x 8" Long	9360337
8	Transition Assemby 8-5/8" x 6-5/8"	9360338
9	Transition Assembly 10" x 8-5/8"	9360339
10	Complete Assembly 8-5/8" x 6-5/8" Transition Quantity: 1 Transition Assm., 2 Hoses, 3 Clamps	9360232
11	Complete Assembly 10" x 8-5/8" Transition Quantity: 1 Transition Assm., 2 Hoses, 6 Clamps	9360334

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MODEL 8000



ITEM	DESCRIPTION	PART #
1	6-5/8" Flex Hose	1800318
2	6-5/8" Flex Joint Clamp	0991087
3	8-5/8" Flex Hose	0994520
4	8-5/8" Flex Joint Clamp	0994507
5	10" Flex Hose	1702326
6	10" T-Bolt Clamp	0992386
7	10" Flex Joint Clamp	0992441
	6-5/8" Span Flex Hose and Clamps Kit	KA02735
	8-5/8" Span Flex Hose and Clamps Kit	KA02737

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ADD & FREESTANDING SPANS

Model 8120

Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
6-5/8" Pipe - 113.3"[287.8cm] & 75.5"[191.8cm] Coupler Spacing		
Truss Package Locations	03-17	11-4
Truss Angle Packages	03-17	11-5
Pipe/Truss Rod Locations - PRIOR to Feb. 2012	10-11	11-6
Pipes/Truss Rods - PRIOR to Feb. 2012	12-15	11-7
Pipe/Truss Rod Locations - EFFECTIVE Feb. 2012	03-17	11-8
Pipes/Truss Rods - EFFECTIVE Feb. 2012	03-17	11-9
113.3" Spacing Sprinkler Coupling Locations	06-06	11-10
113.3" Sprinkler Coupling Location Details	06-06	11-11
75.5" Sprinkler Coupling Locations	03-17	11-12
75.5" Sprinkler Coupling Location Details	03-17	11-13
Assembly Details	06-06	11-14
8-5/8" Pipe - 113.3"[287.8cm] & 75.5"[191.8cm] Coupler Spacing		
Truss Package Locations	03-17	11-16
Truss Angle Packages	03-17	11-17
Pipe/Truss Rod Locations - PRIOR to Feb. 2012	10-11	11-18
Pipes/Truss Rods - PRIOR to Feb. 2012	10-11	11-19
Pipe/Truss Rod Locations - EFFECTIVE Feb. 2012	03-17	11-20
Pipes/Truss Rods - EFFECTIVE Feb. 2012	03-17	11-21
113.3" Spacing Sprinkler Coupling Locations	03-17	11-22
113.3" Spacing Sprinkler Coupling Location Details	06-06	11-23
75.5" Spacing Sprinkler Coupling Locations	03-17	11-24
75.5" Spacing Sprinkler Coupling Location Details	10-16	11-25
Assembly Details	03-17	11-26
10" Pipe - 30"[76.2cm] Coupler Spacing		
Truss Package Locations	03-17	11-28
Truss Angle Locations	03-17	11-29
Pipe/Truss Rod Locations	03-17	11-30
Pipes/Truss Rods	03-17	11-31
Sprinkler Coupling Locations	03-17	11-32
Sprinkler Coupling Location Details	03-17	11-33
Assembly Details	03-17	11-34
5" Pipe - 113.3"[287.8cm] & 75.5"[191.8cm] Coupler Spacing		
Truss Package Locations	06-06	11-36
Truss Angle Packages	06-06	11-37
Pipe/Truss Rod Locations - PRIOR to Feb. 2012	10-11	11-38
Pipes/Truss Rods - PRIOR to Feb. 2012	10-11	11-39
Pipe/Truss Rod Locations - EFFECTIVE Feb. 2012	02-12	11-40
Pipes/Truss Rods - EFFECTIVE Feb. 2012	02-12	11-41
113.3" Spacing Sprinkler Coupling Locations	06-06	11-42
113.3" Spacing Sprinkler Coupling Location Details	06-06	11-43

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MC81AF0066
08-18

Description	Rev. #	Pg. #
75.5" Spacing Sprinkler Coupling Locations	06-06	11-44
75.5" Spacing Sprinkler Coupling Location Details	06-06	11-45
Assembly Details	06-06	11-46
Pipeline Accessories		
Pipe Drain	02-13	11-48
Flanges & Gaskets	03-12	11-49
Flex Hose & Hitch Components	08-18	11-50
Forged Hitch Ball	03-12	11-51

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MODEL 8120

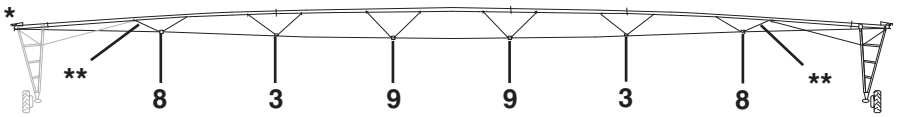
ADD & FREESTANDING SPANS
6-5/8" PIPE
113.3" & 75.5" COUPLER SPACING



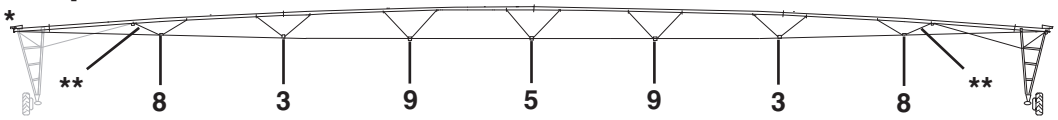
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MODEL 8120

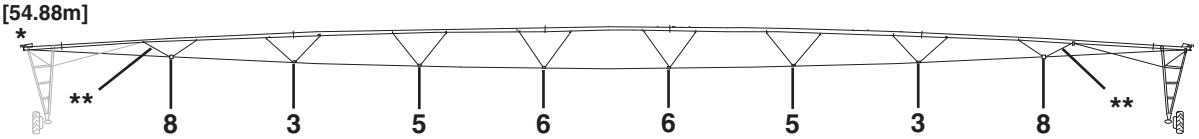
142.3' Span
[43.37m]



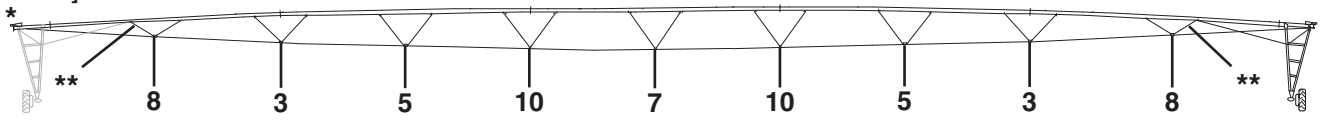
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]



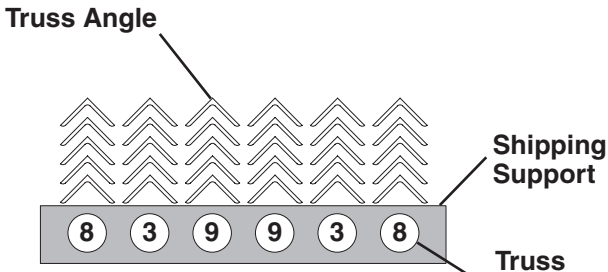
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

****NOTE: Location of longer diagonal w/I.D. hole.**

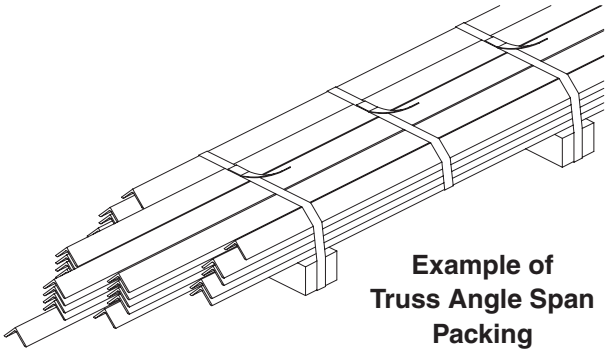
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MODEL 8120

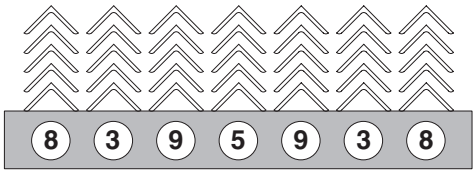
Reference Assembly Detail Page for Exact Location of Truss Packages



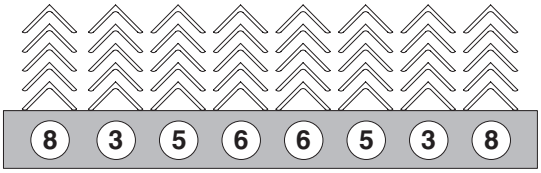
142.3'[43.37m] Truss Angle Span Pack (KA09283)



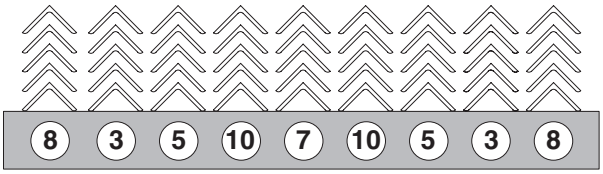
Example of Truss Angle Span Packing



161.2'[49.12m] Truss Angle Span Pack (KA09285)



180'[54.88m] Truss Angle Span Pack (KA09288)



198.9'[60.63m] Truss Angle Span Pack (KA09290)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

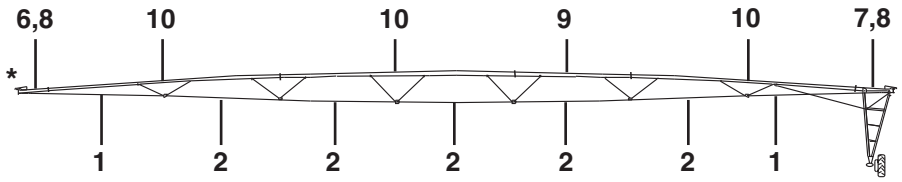
TRUSS PKG #	DIAGONAL			SPREADER		
		Overall Length			Overall Length	
	Part #	Inches	cm	Part #	Inches	cm
3	9360050	82.78"	[210.3]	9360051	92.69"	[235.4]
5	9360054	97.25"	[247.0]	9360055	115.03"	[292.2]
6	9360056	102.56"	[260.5]	9360057	122.94"	[312.3]
7	9360058	112.09"	[284.7]	9360059	136.84"	[347.6]
8	9360735**	63.36"	[160.9]	9360736	56.00"	[142.2]
	9360734	60.67"	[154.1]	-	-	-
9	9360706	92.71"	[235.5]	9360707	108.16"	[274.7]
10	9360704	108.50"	[275.6]	9360705	131.63"	[334.3]

****NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

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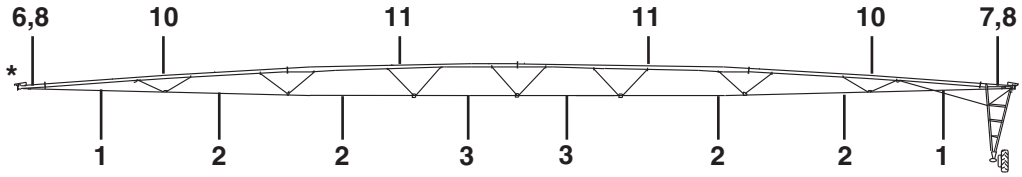
MODEL 8120

142.3' Span
[43.37m]

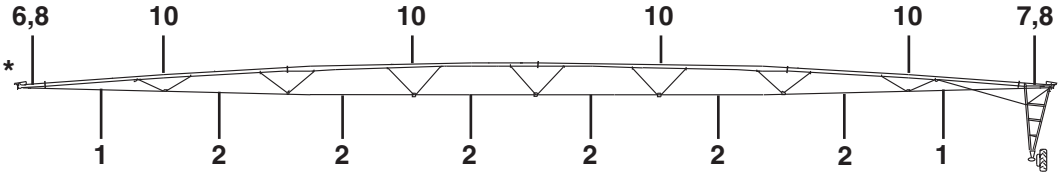


PRIOR to February 2012

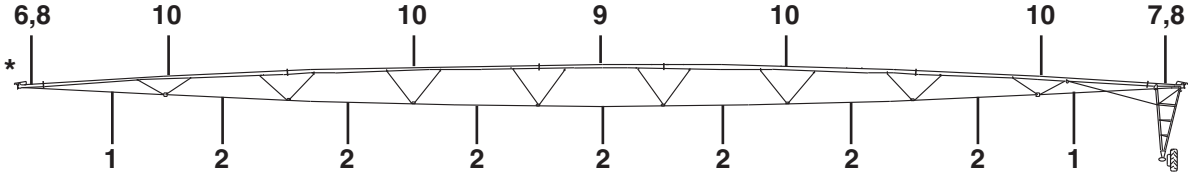
157.5' Span
[48.00m]



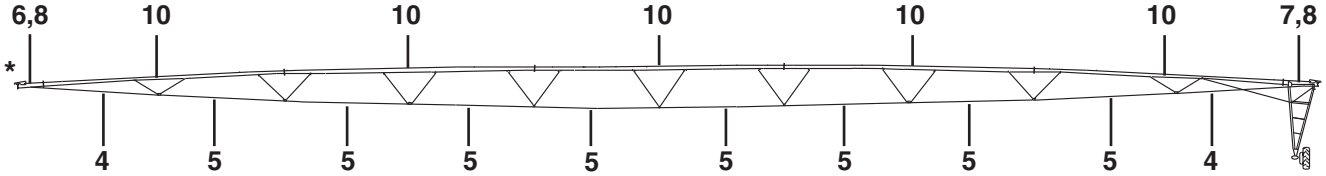
161.2' Span
[49.13m]



180' Span
[54.86m]



198.9' Span
[60.63m]



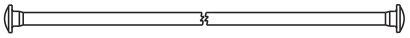
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

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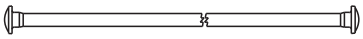
MODEL 8120

PRIOR to February 2012

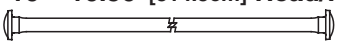
1 **22' - 2.84"[677.8cm] Head/Head Purple**



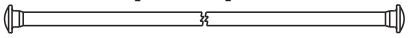
2 **18' - 8.28"[569.7cm] Head/Head Gold**



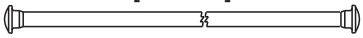
3 **16' - 10.56"[514.5cm] Head/Head**



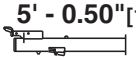
4 **22' - 2.84"[677.8cm] Head/Head Brown**



5 **18' - 8.28"[569.7cm] Head/Head Flourescent Green**



6 **5' - 0.50"[153.7cm]**



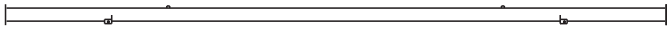
7 **4' - 9.28"[145.5cm]**



8 **5' - 0.50"[153.7cm]**



9 **18' - 10.41"[575.1cm]**



10 **37' - 9.00"[1150.6cm]**



11 **35' - 11.25"[1095.4cm]**

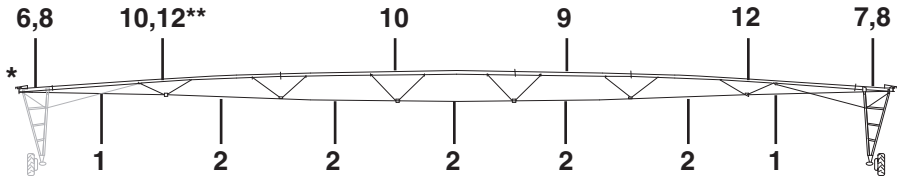


Item	Description	Part #	
1	3/4"[19mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4"[19mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682	
3	3/4"[19mm] Intermediate Truss Rod (16'-10.56")[514.5cm]	9362511	
4	13/16"[20.6mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
5	13/16"[20.6mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719	
6	Swivel Stub Pipe (5'-0.50")[153.7cm]	9360675	
7	Last Stub Pipe (4'-9.47")[145.9cm]	9360676	
8	Fixed Stub Pipe (5'-0.50")[153.7cm]	9360677	
		113"[287.8cm]	75.5"[191.8cm]
9	19' Intermediate Pipe (18'-10.41")[575.1cm]	9360684	9360685
10	38' Intermediate Pipe (37'-9.00")[1150.6cm]	9360686	9360687
11	36' Intermediate Pipe (35'-11.25")[1095.4cm]	-	9362501

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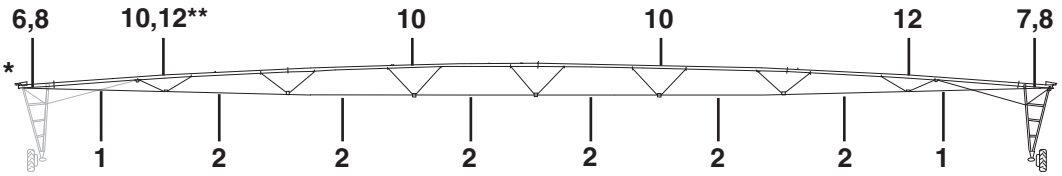
MODEL 8120

142.3' Span
[43.37m]

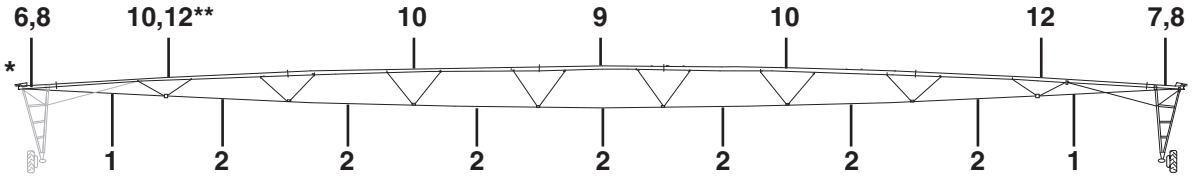


EFFECTIVE
February 2012

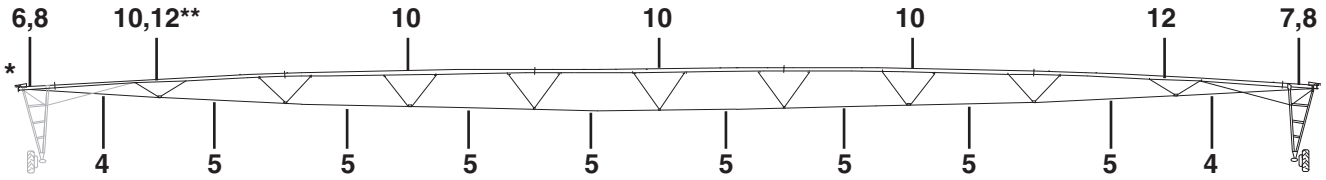
161.2' Span
[49.13m]



180' Span
[54.86m]



198.9' Span
[60.63m]



***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

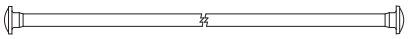
****NOTE: Tower Pipe used at both ends of Freestanding Spans.**

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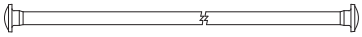
MODEL 8120

EFFECTIVE
February 2012

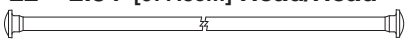
1 **22' - 2.84"[677.8cm] Head/Head Purple**



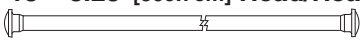
2 **18' - 8.28"[569.7cm] Head/Head Gold**



4 **22' - 2.84"[677.8cm] Head/Head Brown**



5 **18' - 8.28"[569.7cm] Head/Head Flourescent Green**



6 **5' - 0.50"[153.7cm]**



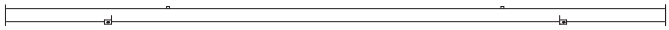
7 **4' - 9.28"[145.5cm]**



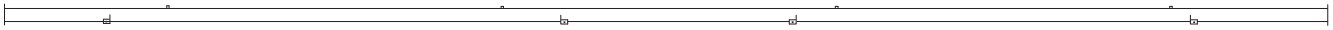
8 **5' - 0.50"[153.7cm]**



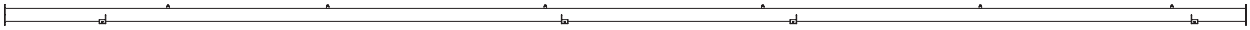
9 **18' - 10.41"[575.1cm]**



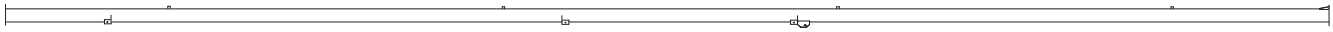
10 **37' - 9.00"[1150.6cm]**



11 **35' - 11.25"[1095.4cm]**



12 **37' - 9.00"[1150.6cm]**

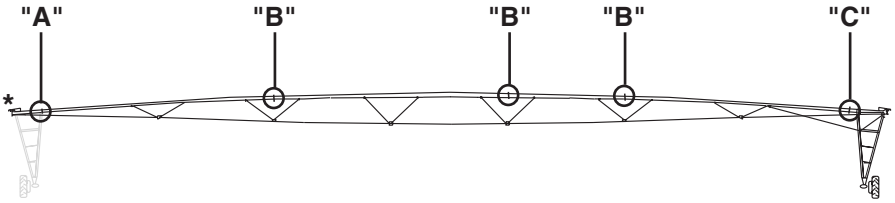


Item	Description	Part #	
1	3/4"[19mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4"[19mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682	
4	13/16"[20.6mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
5	13/16"[20.6mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719	
6	Swivel Stub Pipe (5'-0.50")[153.7cm]	9360675	
7	Last Stub Pipe (4'-9.47")[145.9cm]	9360676	
8	Fixed Stub Pipe (5'-0.50")[153.7cm]	9360677	
		113"[287.8cm]	75.5"[191.8cm]
9	19' Intermediate Pipe (18'-10.41")[575.1cm]	9360684	9360685
10	38' Intermediate Pipe (37'-9.00")[1150.6cm]	9360686	9360687
11	36' Intermediate Pipe (35'-11.25")[1095.4cm]	-	9362501
12	38' Tower Pipe (37'-9.00")[1150.6cm]	9363951	9363952

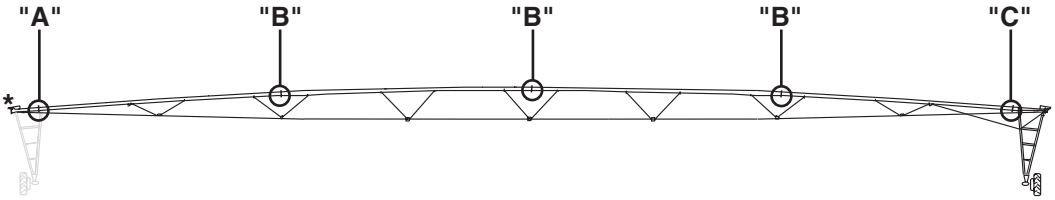
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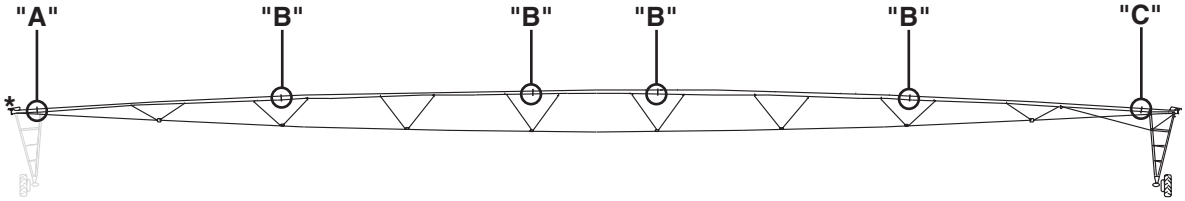
142.3' Span
[43.37m]



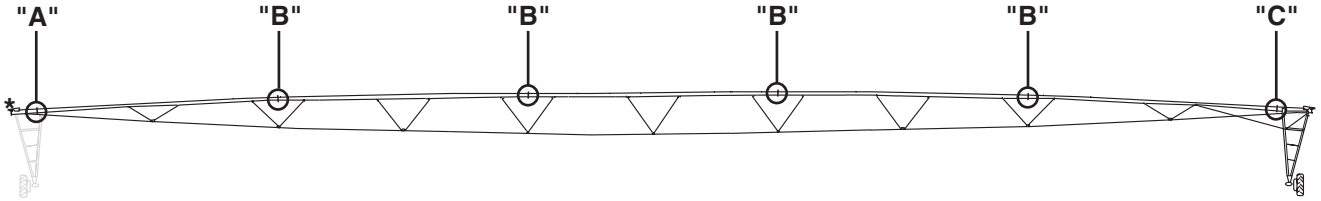
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]

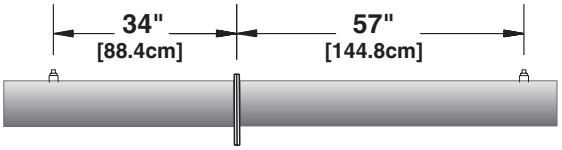


***NOTE: Fixed Stub and Drive Unit are used at .....**
both ends of Freestanding Spans.

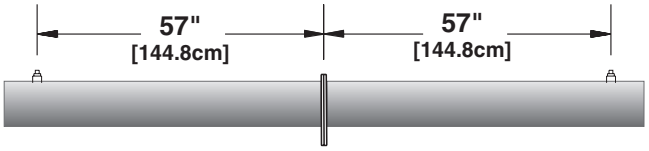
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MODEL 8120

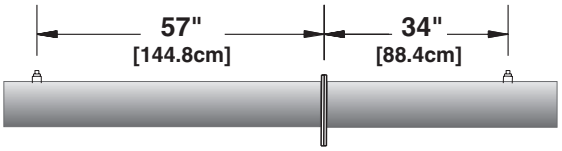
Detail "A"



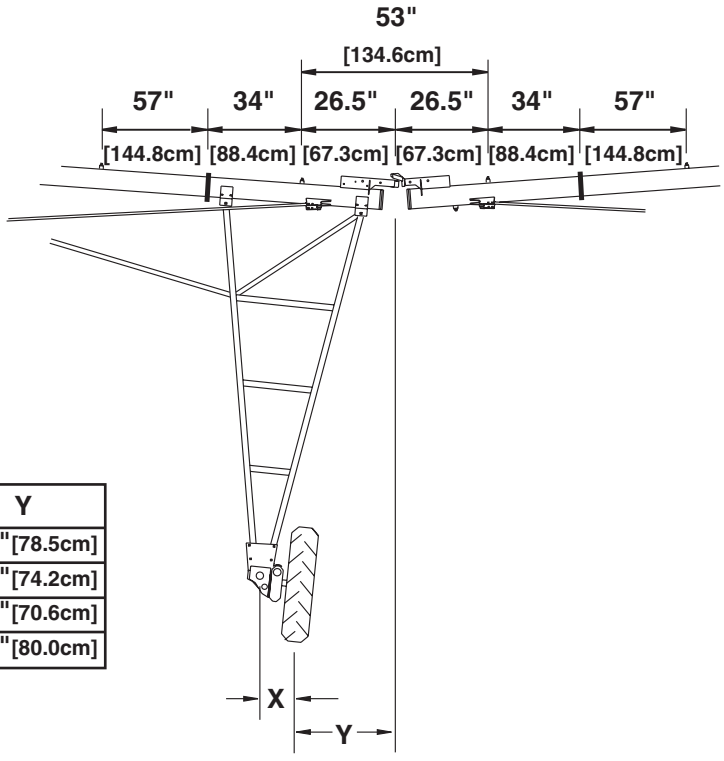
Detail "B"



Detail "C"



PIVOT



TIRE	X	Y
11.2 x 24	12.4"[31.5cm]	30.9"[78.5cm]
14.9 x 24	14.1"[35.8cm]	29.2"[74.2cm]
16.9 x 24	15.5"[39.4cm]	27.8"[70.6cm]
11.2 x 38	11.8"[30.0cm]	31.5"[80.0cm]

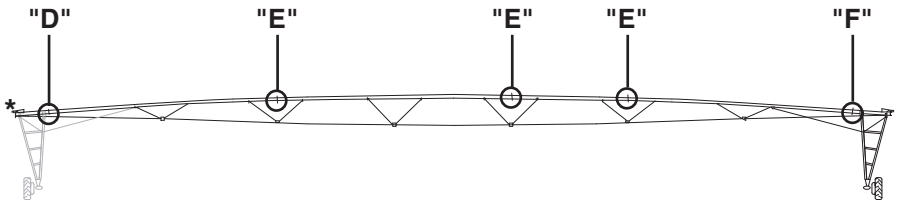
NOTE: The "Y" dimension can vary ±3.0"[76.2cm] depending on span length and crown.

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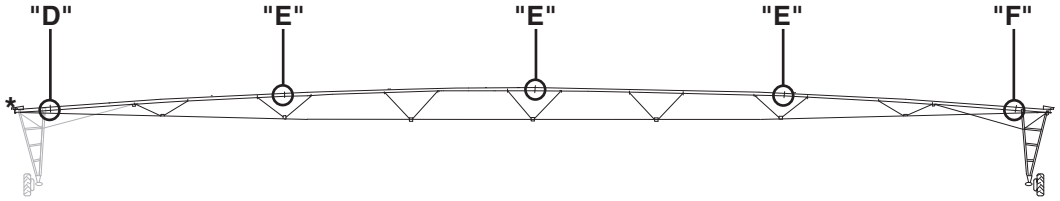
Functional Area	Assembly / Part	Rev# 03-17
6-5/8" Pipe - 113.3" & 75.5" Spacing	75.5" Sprinkler Coupling Locations	

MODEL 8120

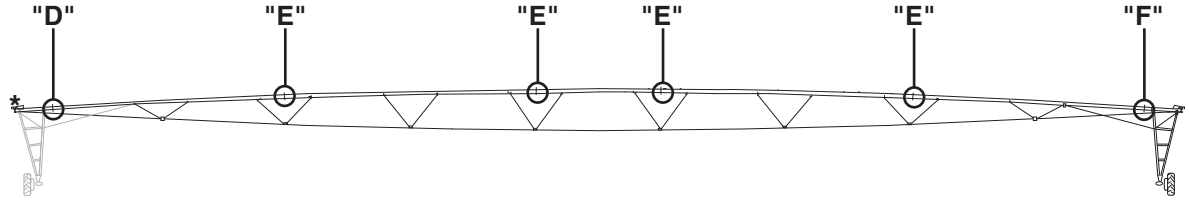
142.3' Span
[43.37m]



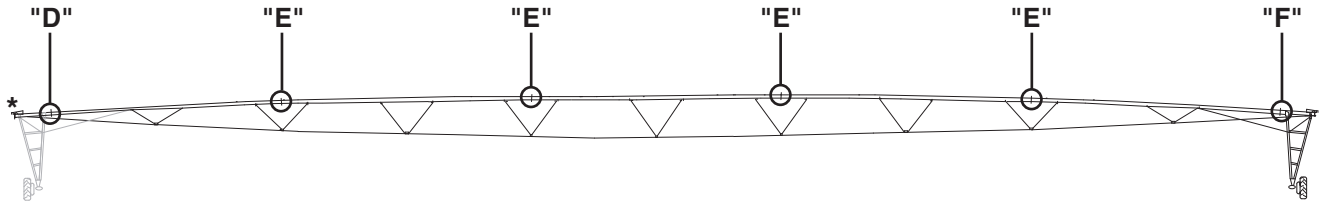
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]

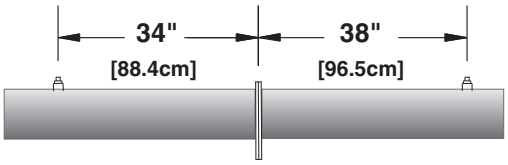


***NOTE: Fixed Stub and Drive Unit are used at ..... both ends of Freestanding Spans.**

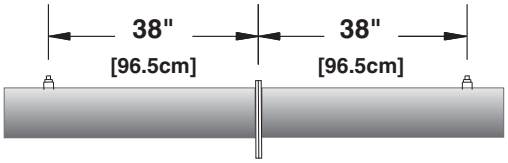
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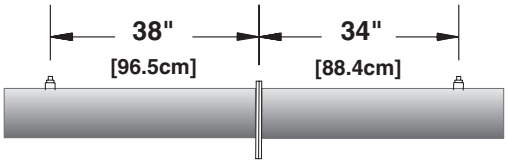
Detail "D"

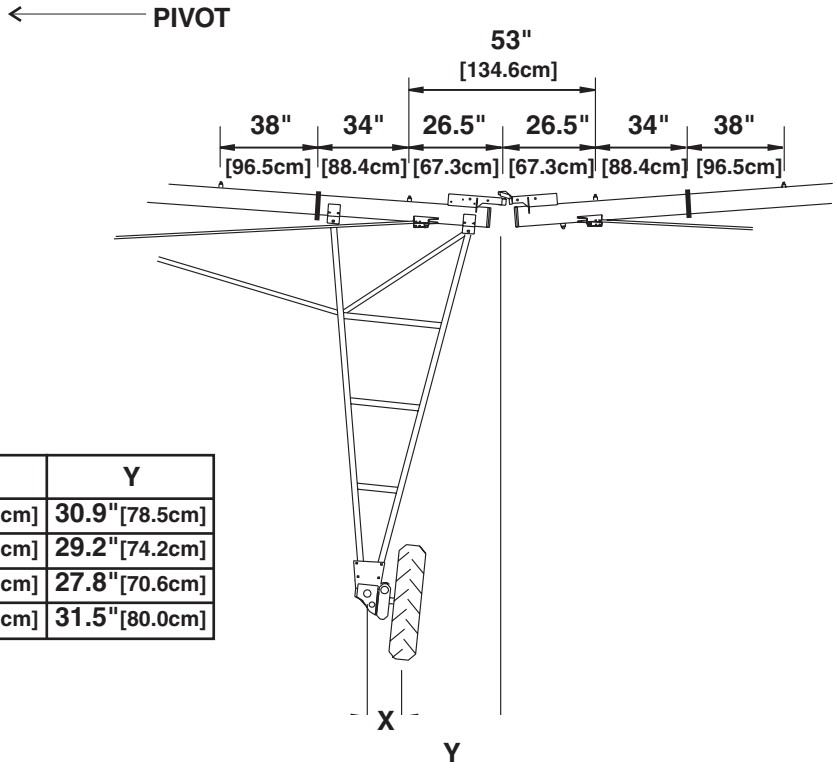


Detail "E"



Detail "F"



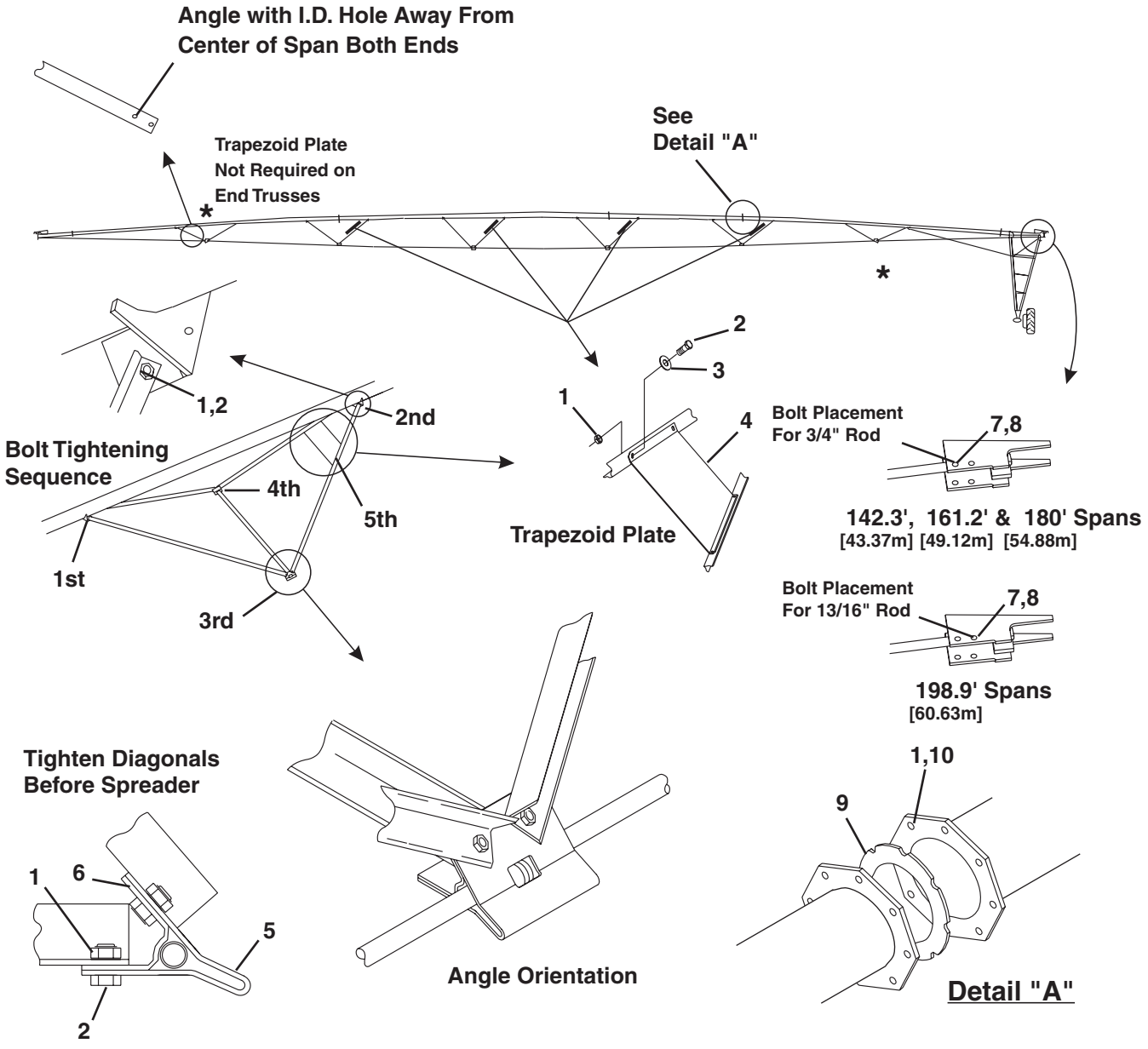


TIRE	X	Y
11.2 x 24	12.4"[31.5cm]	30.9"[78.5cm]
14.9 x 24	14.1"[35.8cm]	29.2"[74.2cm]
16.9 x 24	15.5"[39.4cm]	27.8"[70.6cm]
11.2 x 38	11.8"[30.0cm]	31.5"[80.0cm]

NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

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MODEL 8120



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	6-5/8" Gasket	0991107
10	1/2" x 2" Cap Screw	0161024

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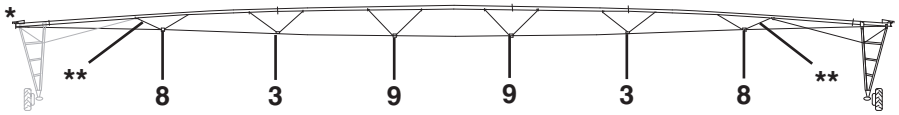
ADD & FREESTANDING SPANS
8-5/8" PIPE
113.3" & 75.5" COUPLER SPACING



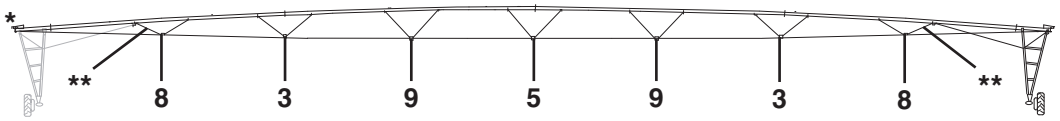
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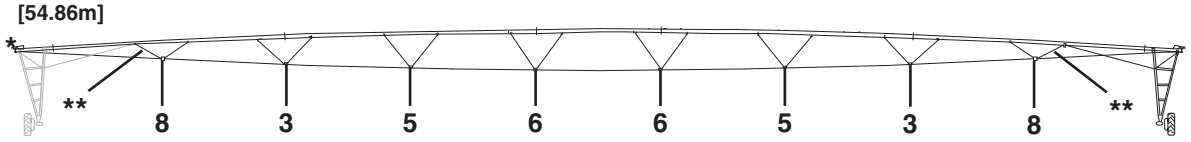
142.3' Span
[43.37m]



161.2' Span
[49.12m]



180' Span
[54.86m]



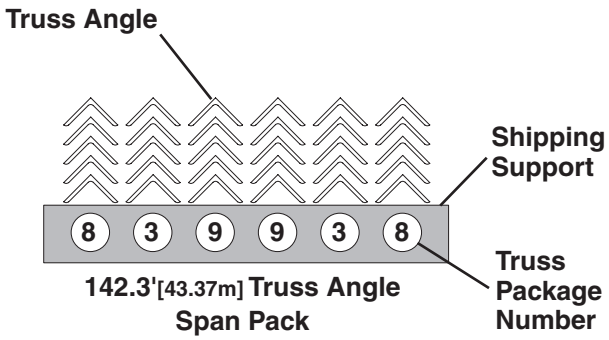
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

****NOTE: Location of longer diagonal w/I.D. hole.**

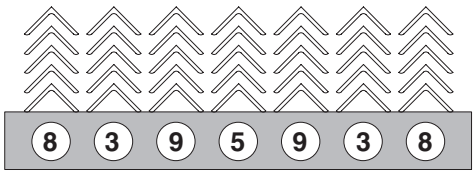
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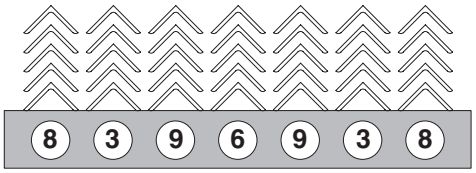
Reference Assembly Detail Page for Exact Location of Truss Packages



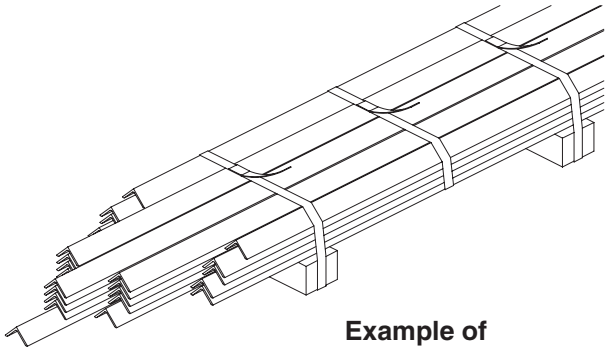
142.3'[43.37m] Truss Angle Span Pack (KA09283)



161.2'[49.12m] Truss Angle Span Pack (KA09285)



180'[54.86m] Truss Angle Span Pack (KA09288)



Example of Truss Angle Span Packing

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

TRUSS PKG #	DIAGONAL			SPREADER		
		Overall Length			Overall Length	
	Part #	Inches	cm	Part #	Inches	cm
3	9360050	82.78"	[210.3cm]	9360051	92.69"	[235.4cm]
5	9360054	97.25"	[247.0cm]	9360055	115.03"	[292.2cm]
6	9360056	102.56"	[260.5cm]	9360057	122.94"	[2312.3cm]
8	9360735**	63.36"	[160.9cm]	9360736	56.00"	[142.2cm]
	9360734	60.67"	[154.1cm]	-	-	-
9	9360706	92.71"	[235.5cm]	9360707	108.16"	[274.7cm]

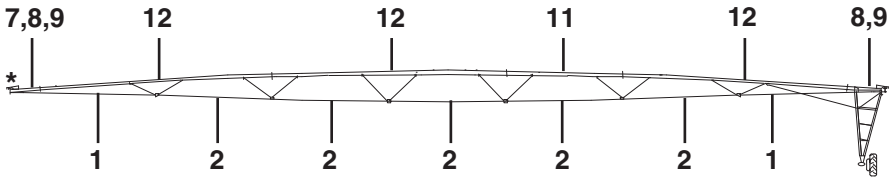
** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.

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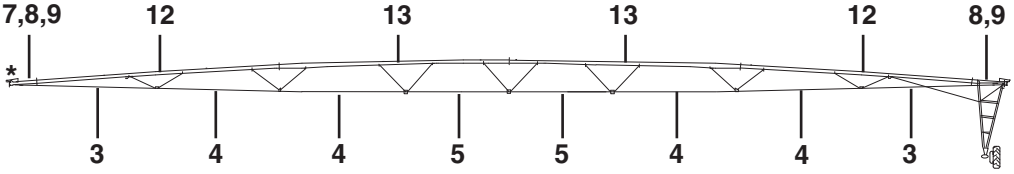
MODEL 8120

PRIOR to February 2012

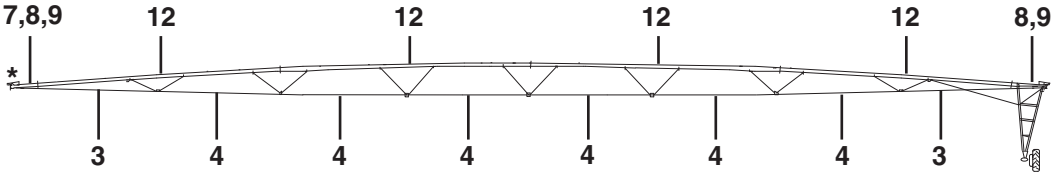
142.3' Span
[43.37m]



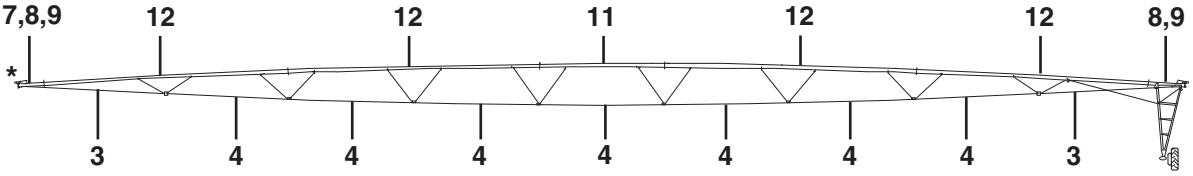
157.5' Span
[48.00m]



161.2' Span
[49.12m]



180' Span
[54.86m]



***NOTE:** **Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

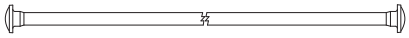
Reverse Transitions change from 8-5/8" to 6-5/8" dia. at the Swivel end of the Span when the transition is between the Cart and the Freestanding Span.

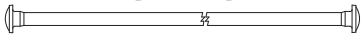
Transition Stub Pipes change from 8-5/8" to 6-5/8" dia. at the Fixed end of the Span when the transition is to the outer end of an End Feed machine or to either end of a Center Feed machine.

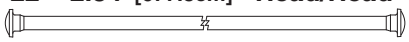
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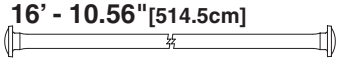
PRIOR to February 2012

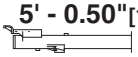
1 **22' - 2.84"[677.8cm] Head/Head**  **Purple**

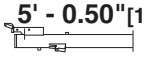
2 **18' - 8.28"[567.7cm] Head/Head**  **Gold**

3 **22' - 2.84"[677.8cm] Head/Head**  **Brown**

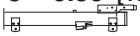
4 **18' - 8.28"[567.7cm] Head/Head**  **Flourescent Green**

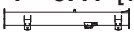
5 **16’ - 10.56"[514.5cm]** 

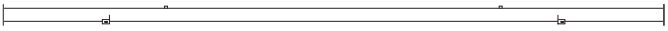
6 **5' - 0.50"[153.7cm] *** 

7 **5' - 0.50"[153.7cm]** 

8 **5' - 0.50"[153.7cm] *** 

9 **5' - 0.50"[153.7cm]** 

10 **4' - 9.41"[145.8cm]** 

11 **18' - 10.41"[575.1cm]** 

12 **37' - 9.00"[1150.6cm]** 

13 **35' - 10.50"[1095.4cm]** 

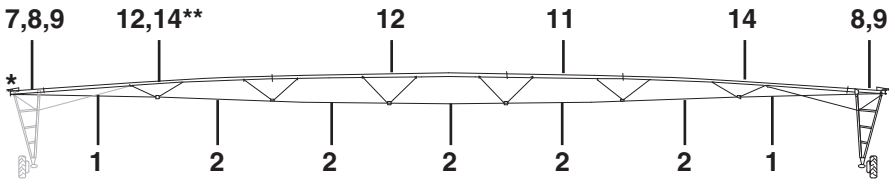
Item	Description	Part #	
1	3/4" Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360682	
3	13/16" Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
4	13/16" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360719	
5	13/16” Intermediate Truss Rod (16’-10.56”)[514.5cm]	9362510	
*6	Reverse Transition Stub Pipe (5'-0.50")[153.7cm]	9360810	
7	Swivel Stub Pipe (5'-0.50")[153.7cm]	9360693	
*8	Transition Stub Pipe (5'-0.50")[153.7cm]	9360696	
9	Fixed Stub Pipe (5'-0.50")[153.7cm]	9360694	
**10	Cart Stub Pipe (4'-9.41") [145.8cm]	9360801	
		113"[287.8cm]	75.5"[191.8cm]
11	19' Intermediate Pipe (18'-10.41")[575.1cm]	9360700	9360701
12	38' Intermediate Pipe (37'-9")[1150.6cm]	9360702	9360703
13	36’ Intermediate Pipe (35’-10.50”)[1095.4cm]	-	9362502

*** NOTE: Transition Stubs consist of 6-5/8" pipe with 8-5/8" Flange.**
**** NOTE: Cart Stub Pipe used ONLY on Rainger Cart.**

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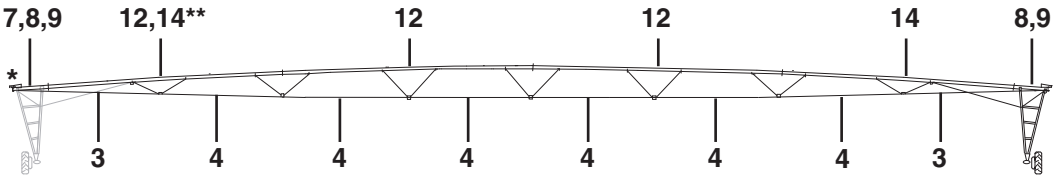
MODEL 8120

142.3' Span
[43.37m]

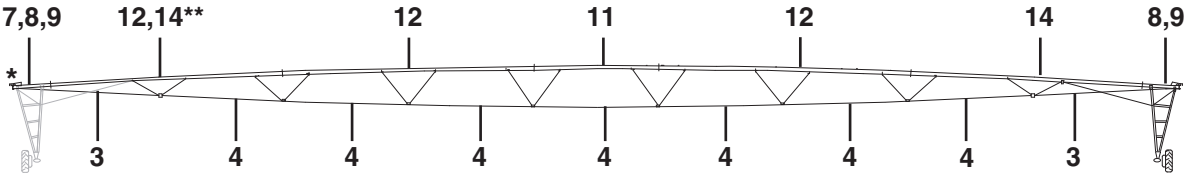


EFFECTIVE
February 2012

161.2' Span
[49.12m]



180' Span
[54.86m]



***NOTE:** **Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

Reverse Transitions change from 8-5/8" to 6-5/8" dia. at the Swivel end of the Span when the transition is between the Cart and the Freestanding Span.

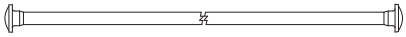
Transition Stub Pipes change from 8-5/8" to 6-5/8" dia. at the Fixed end of the Span when the transition is to the outer end of an End Feed machine or to either end of a Center Feed machine.

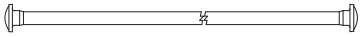
****NOTE:** **Tower Pipe used at both ends of Freestanding Spans.**

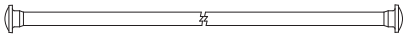
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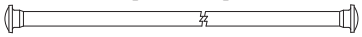
MODEL 8120

EFFECTIVE
February 2012

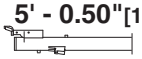
1 **22' - 2.84"[677.8cm] Head/Head**  **Purple**

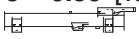
2 **18' - 8.28"[567.7cm] Head/Head**  **Gold**

3 **22' - 2.84"[677.8cm] Head/Head**  **Brown**

4 **18' - 8.28"[567.7cm] Head/Head**  **Flourescent Green**

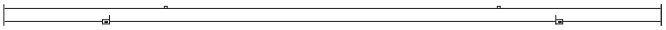
6 **5' - 0.50"[153.7cm] *** 

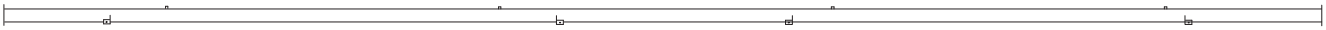
7 **5' - 0.50"[153.7cm]** 

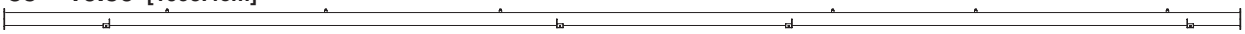
8 **5' - 0.50"[153.7cm] *** 

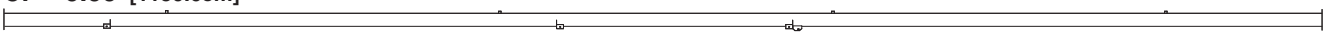
9 **5' - 0.50"[153.7cm]** 

10 **4' - 9.41"[145.8cm]** 

11 **18' - 10.41"[575.1cm]** 

12 **37' - 9.00"[1150.6cm]** 

13 **35' - 10.50"[1095.4cm]** 

14 **37' - 9.00"[1150.6cm]** 

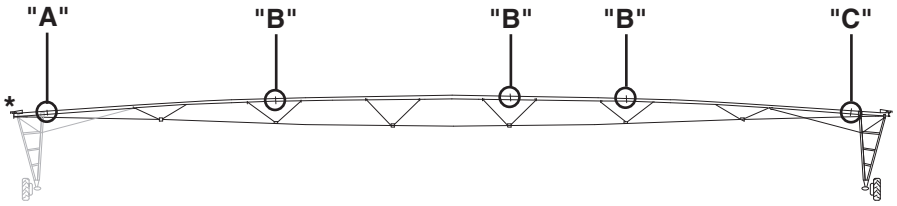
Item	Description	Part #	
1	3/4" Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360682	
3	13/16" Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
4	13/16" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360719	
*6	Reverse Transition Stub Pipe (5'-0.50")[153.7cm]	9360810	
7	Swivel Stub Pipe (5'-0.50")[153.7cm]	9360693	
*8	Transition Stub Pipe (5'-0.50")[153.7cm]	9360696	
9	Fixed Stub Pipe (5'-0.50")[153.7cm]	9360694	
**10	Cart Stub Pipe (4'-9.41") [145.8cm]	9360801	
		113"[287.8cm]	75.5"[191.8cm]
11	19' Intermediate Pipe (18'-10.41")[575.1cm]	9360700	9360701
12	38' Intermediate Pipe (37'-9")[1150.6cm]	9360702	9360703
13	36' Intermediate Pipe (35'-10.50")[1095.4cm]	-	9362502
14	38' Tower Pipe (37'-9")[1150.6cm]	9363956	9363957

*** NOTE: Transition Stubs consist of 6-5/8" pipe with 8-5/8" Flange.**
**** NOTE: Cart Stub Pipe used ONLY on Rainger Cart.**

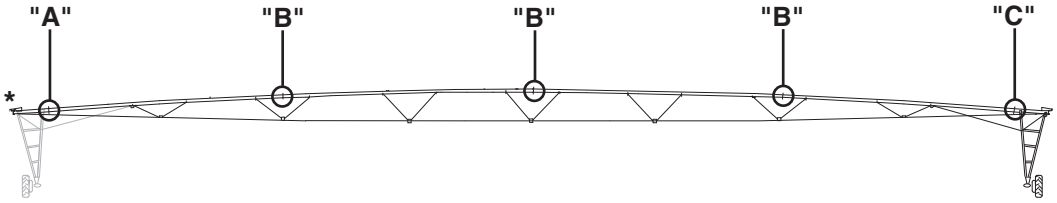
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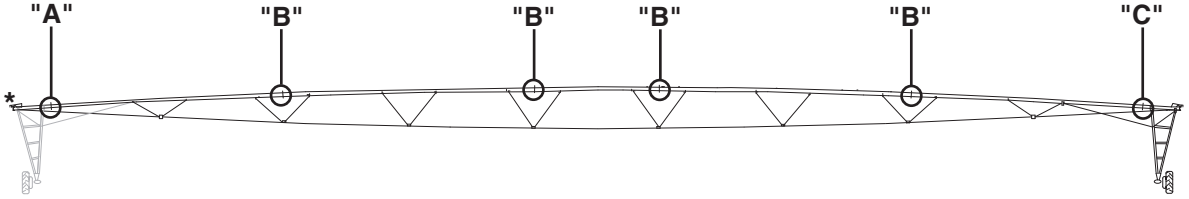
142.3' Span
[43.37m]



161.2' Span
[49.12m]



180' Span
[54.86m]

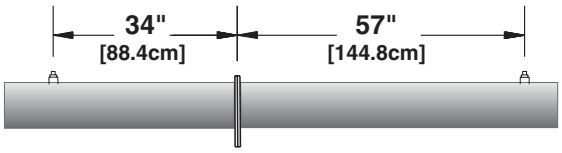


***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

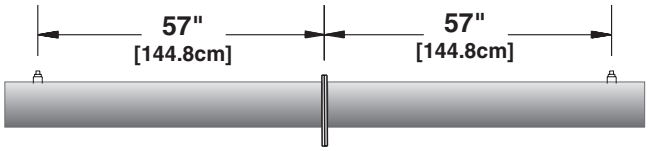
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MODEL 8120

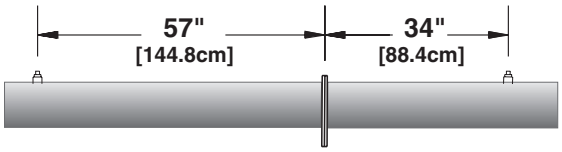
Detail "A"



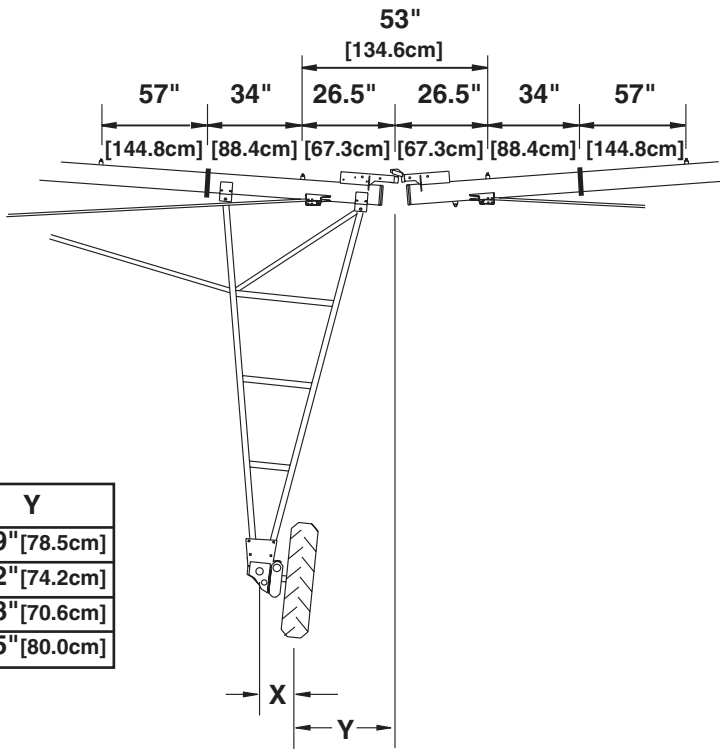
Detail "B"



Detail "C"



PIVOT



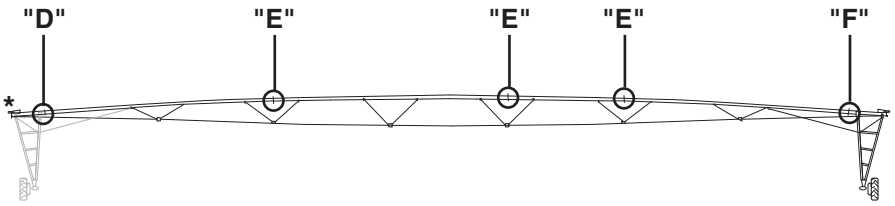
TIRE	X	Y
11.2 x 24	12.4"[31.5cm]	30.9"[78.5cm]
14.9 x 24	14.1"[35.8cm]	29.2"[74.2cm]
16.9 x 24	15.5"[39.4cm]	27.8"[70.6cm]
11.2 x 38	11.8"[30.0cm]	31.5"[80.0cm]

NOTE: The "Y" dimension can vary ±3.0"[76.2cm] depending on span length and crown.

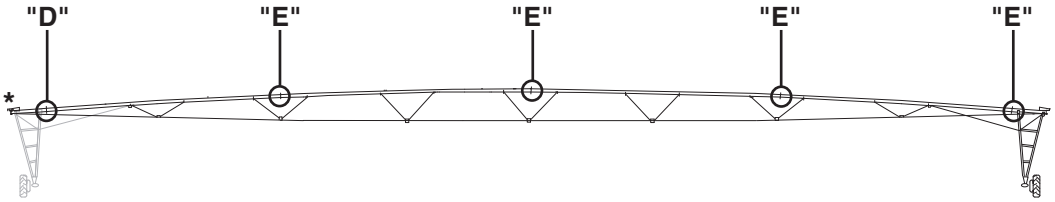
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MODEL 8120

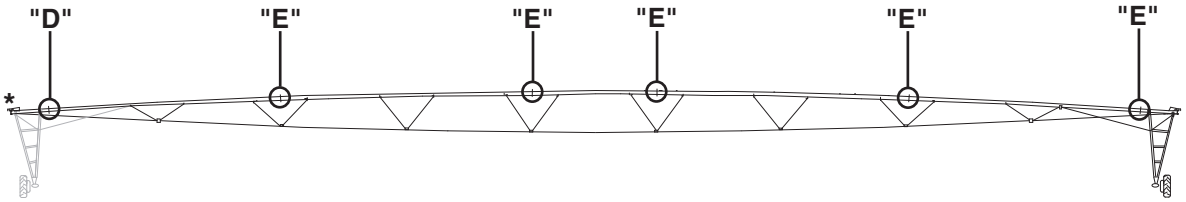
142.3' Span
[43.37m]



161.2' Span
[49.12m]



180' Span
[54.86m]

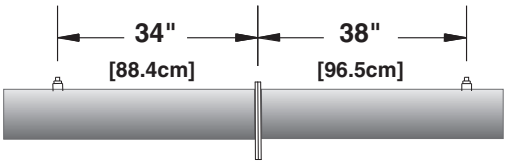


***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

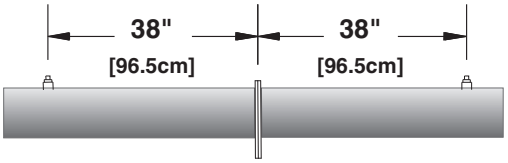
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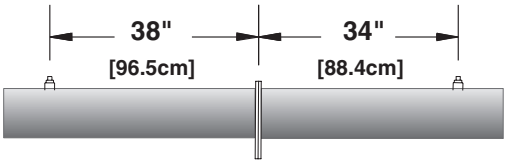
Detail "D"

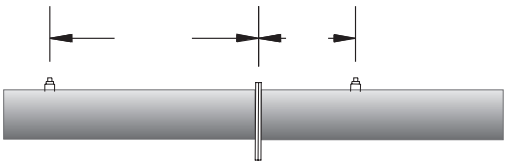


Detail "E"

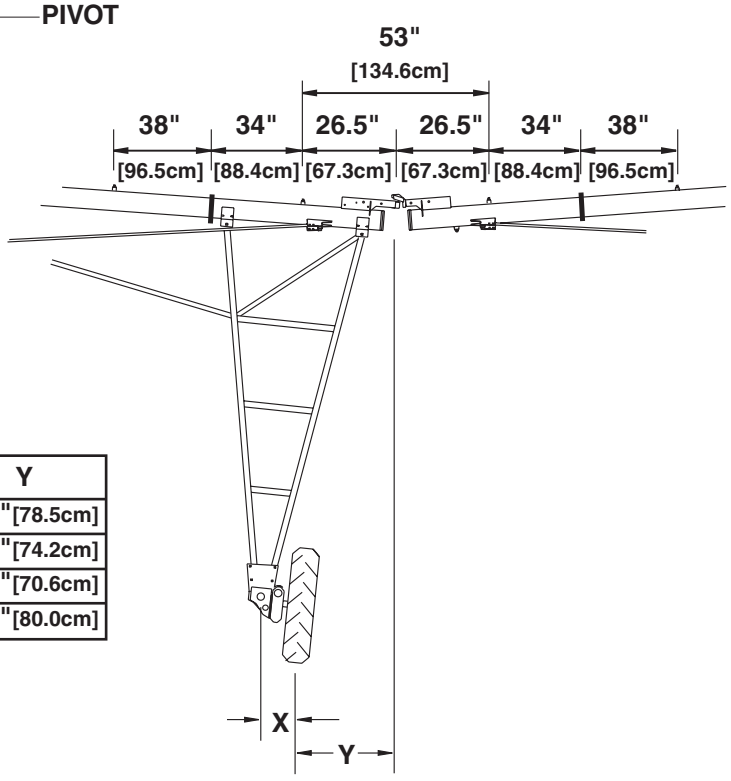


Detail "F"





PIVOT

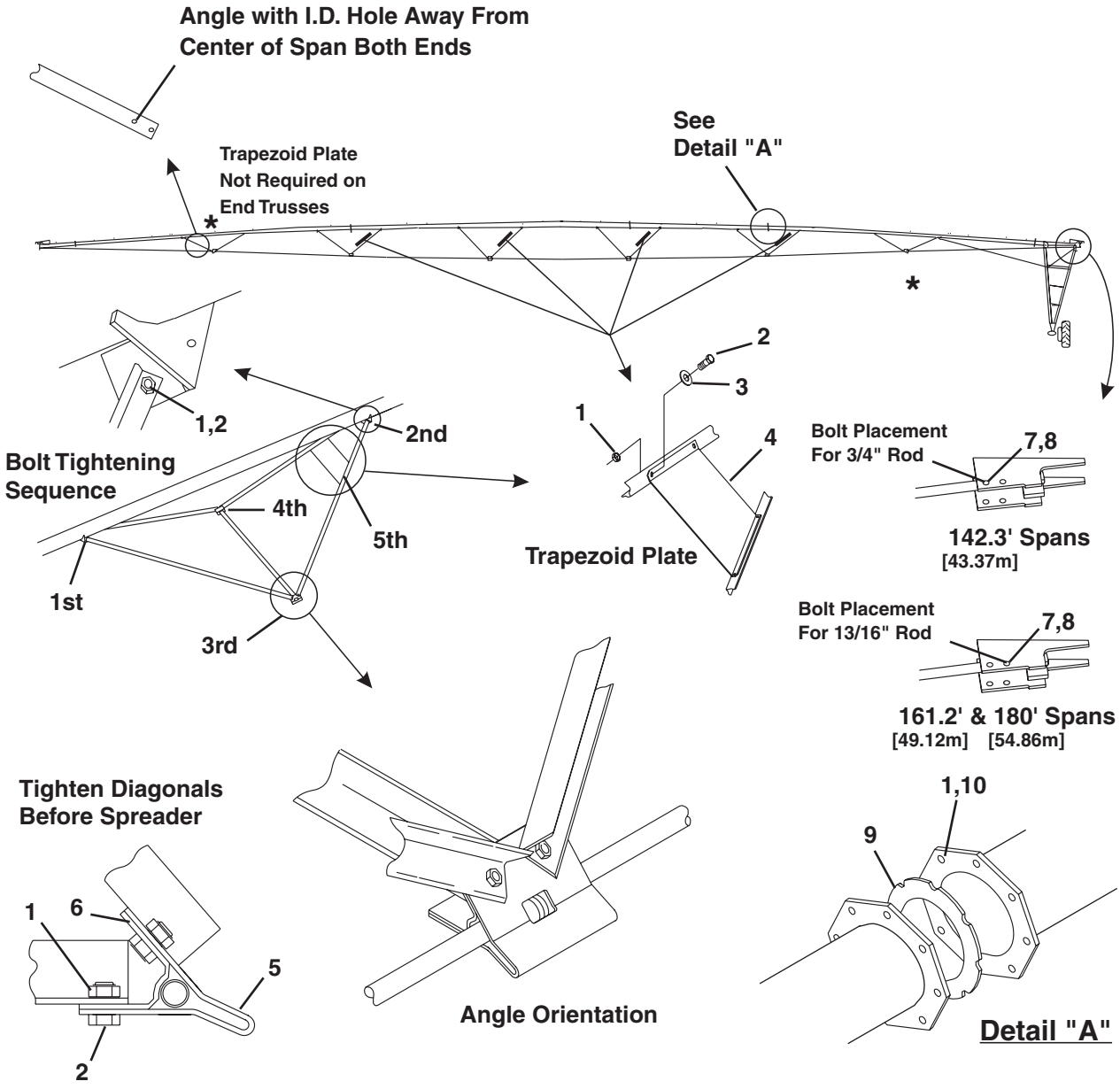


TIRE	X	Y
11.2 x 24	12.4"[31.5cm]	30.9"[78.5cm]
14.9 x 24	14.1"[35.8cm]	29.2"[74.2cm]
16.9 x 24	15.5"[39.4cm]	27.8"[70.6cm]
11.2 x 38	11.8"[30.0cm]	31.5"[80.0cm]

NOTE: The "Y" dimension can vary ±3.0"[76.2cm] depending on span length and crown.

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MODEL 8120



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	8-5/8" Gasket	0994500
10	1/2" x 2" Cap Screw	0161024

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ADD & FREESTANDING SPANS
10" PIPE
30" COUPLER SPACING



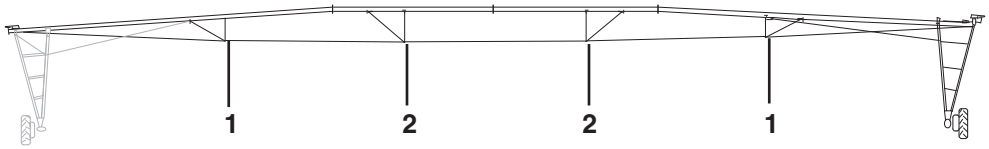
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MODEL 8120

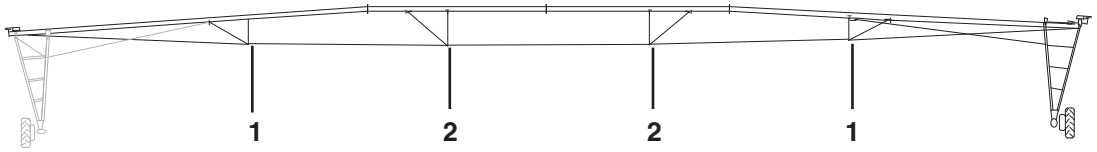
109' Span



120' Span



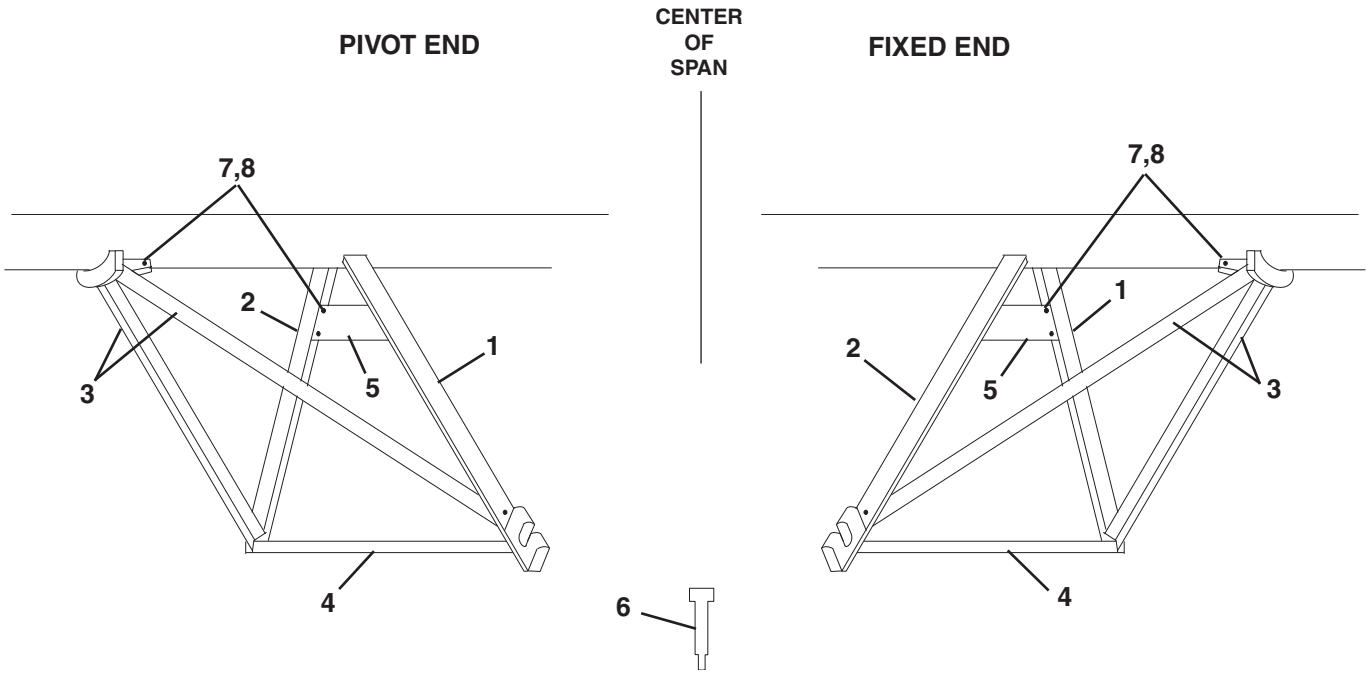
128' Span



Item #	Truss Pkg. #
1	KA00701
2	KA00702

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MODEL 8120



Truss Pkg. #	Right Hand Truss Angle		Left Hand Truss Angle		Diagonal		Spreader	
	Part #	Length	Part #	Length	Part #	Length	Part #	Length
KA00701	1780322	47.78"	1780323	47.78"	1780344	64.39"	1780334	68.19"
KA00702	1780350	73.65"	1780351	73.65"	1780353	84.00"	1780352	102.16"

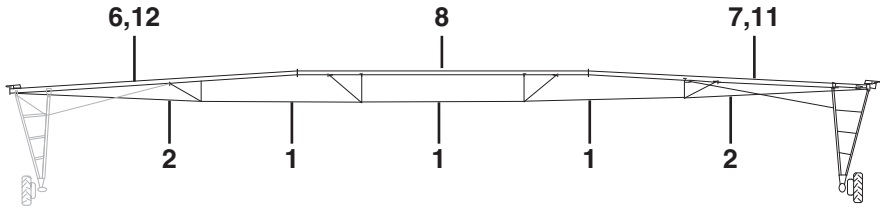
NOTE: All angle dimensions are overall length (end to end).

ITEM	DESCRIPTION	PART #
1	Right Hand Truss Angle	See Chart
2	Left Hand Truss Angle	See Chart
3	Diagonal	See Chart
4	Spreader	See Chart
5	Gusset Plate	1780424
6	Keeper Tab	1701850
7	1/2" Lock Nut	0133005
8	1/2" x 1-1/4" Cap Screw	0161027

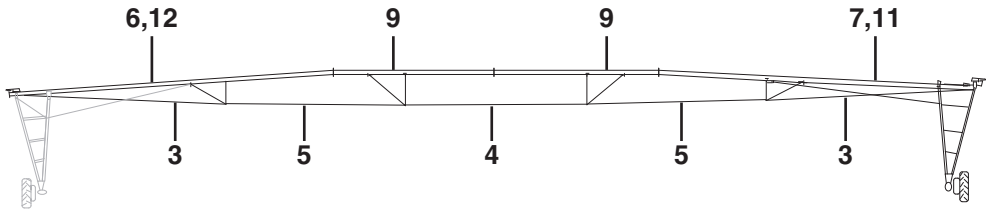
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MODEL 8120

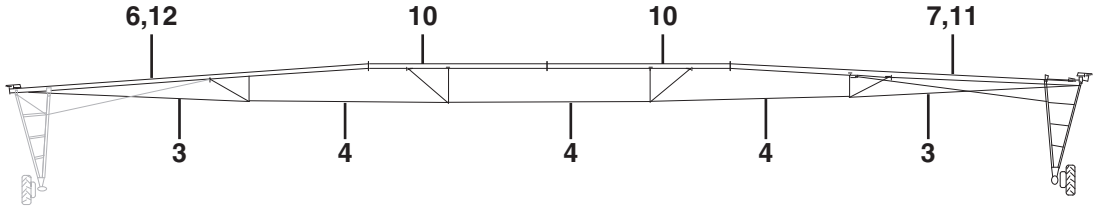
109' Span



120' Span

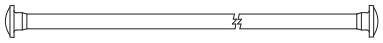


128' Span



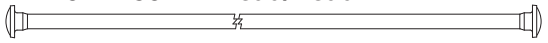
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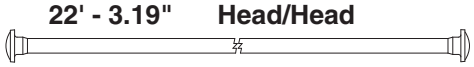
MODEL 8120

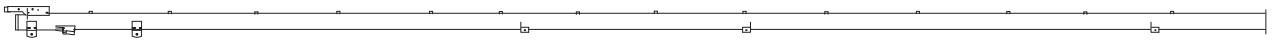
1 20' - 2.25" Head/Head  No Color

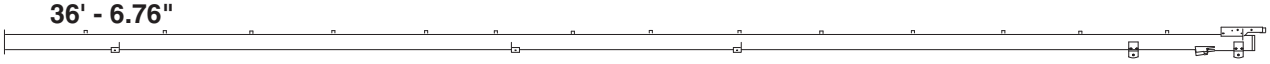
2 22' - 6.31" Head/Head  No Color

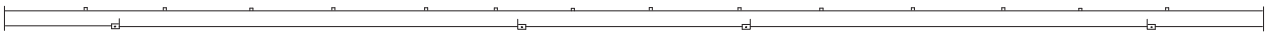
3 22' - 6.31" Head/Head  No Color

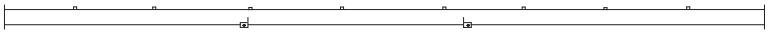
4 26' - 2.56" Head/Head  No Color

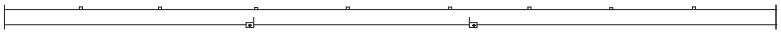
5 22' - 3.19" Head/Head  Red

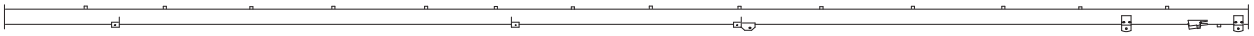
6 36' - 6.76" 

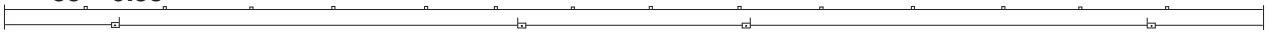
7 36' - 6.76" 

8 36' - 6.67" 

9 23' - 4.12" 

10 27' - 3.44" 

11 35' - 9.38" 

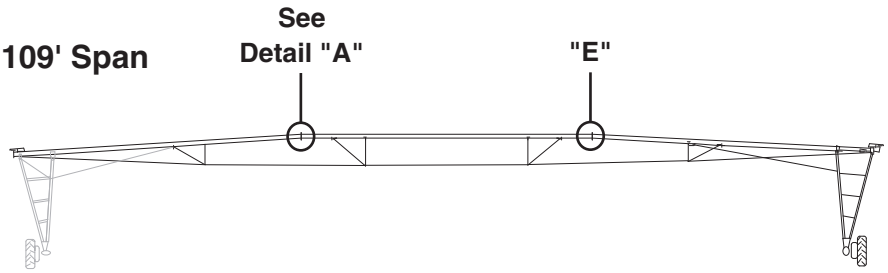
12 35' - 9.38" 

Item	Description	Part #
1	3/4" Intermediate Truss Rod (20'-2.25")	1780434
2	3/4" Tower Truss Rod (22'-6.31")	1780378
3	7/8" Tower Truss Rod (22'-6.31")	1780574
4	7/8" Intermediate Truss Rod (26'-2.56")	1780578
5	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
6	Swivel Pipe (36'-6.76")	1781558
7	Fixed Pipe (36'-6.76")	1781559
8	Inter. Pipe 109' Span (36'-6.67")	1781561
9	Inter. Pipe 120' Span (23'-4.12")	1781678
10	Inter. Pipe 128' Span (27'-3.44")	1781562
11	Transition/Inlet Pipe (35'-9.38")	1781560
12	Pivot Pipe (35'-9.38")	1781557

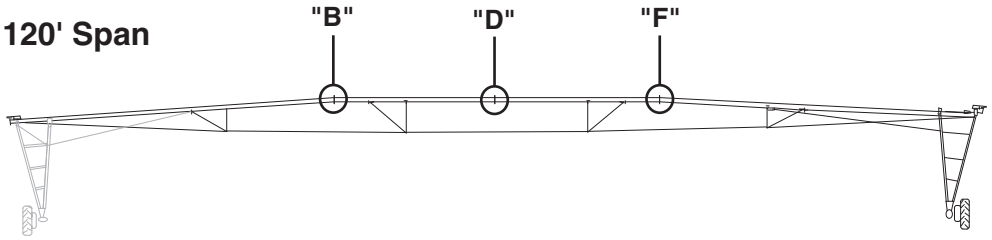
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MODEL 8120

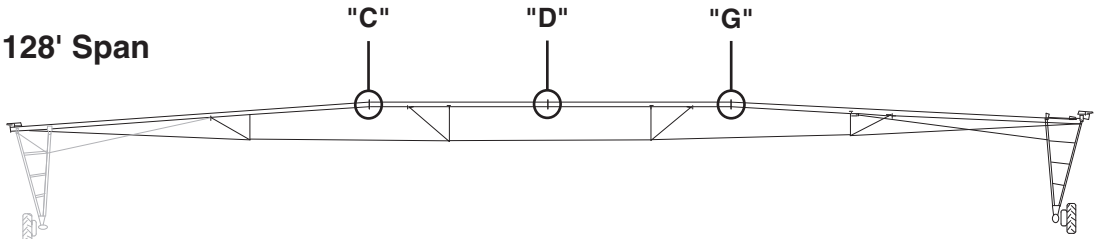
109' Span



120' Span



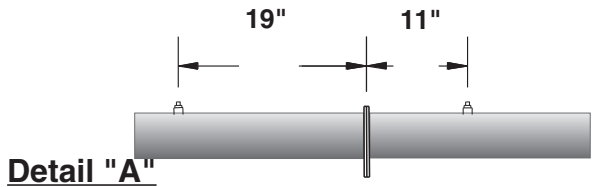
128' Span



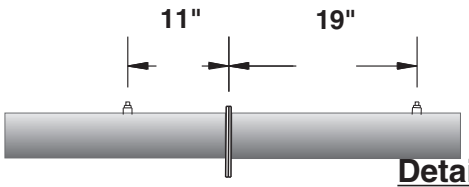
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Functional Area	Assembly / Part	Rev# 03-17
10" Pipe - 30" Spacing	Sprinkler Coupling Location Details	

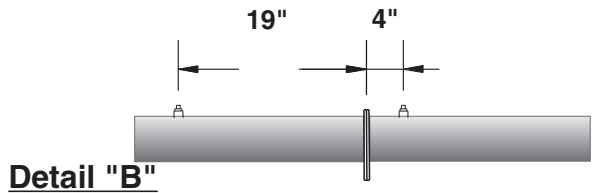
MODEL 8120



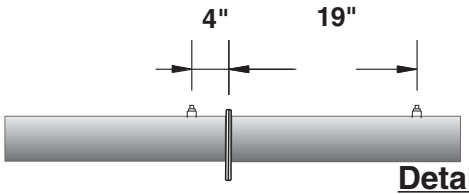
Detail "A"



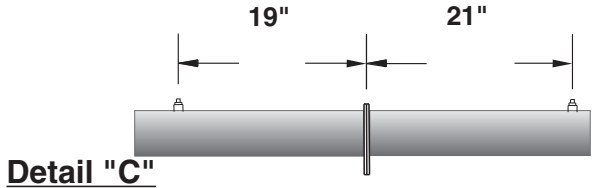
Detail "E"



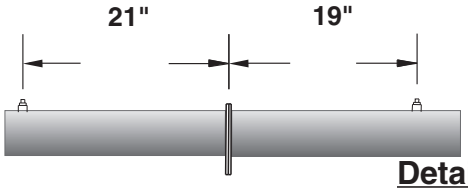
Detail "B"



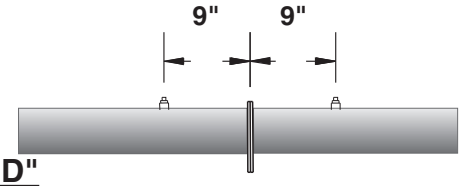
Detail "F"



Detail "C"

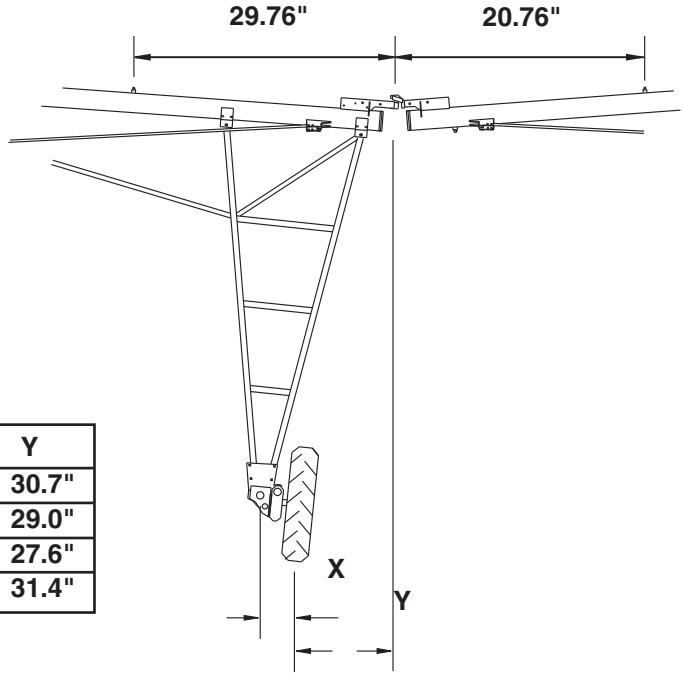


Detail "G"



Detail "D"

___ PIVOT

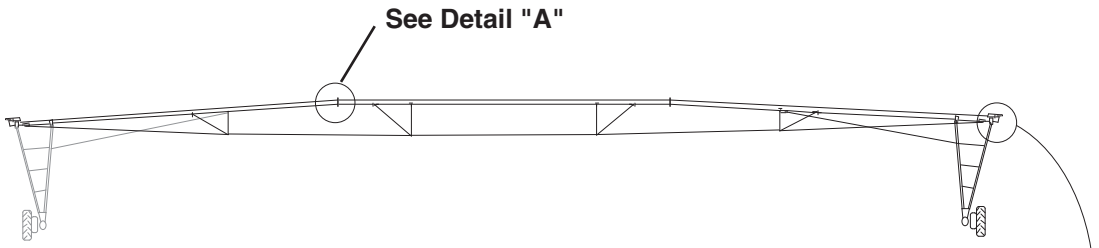


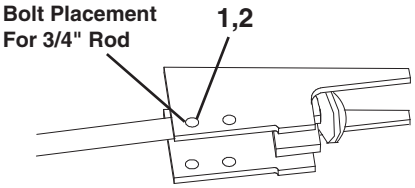
TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

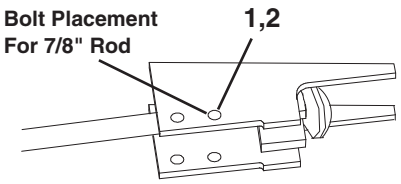
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MODEL 8120

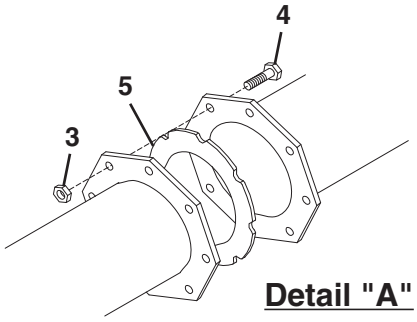




109' Spans



128' Spans



Detail "A"

ITEM	DESCRIPTION	PART #
1	3/8" Lock Nut	0133006
2	3/8" x 3" Cap Screw	0161037
3	1/2" Lock Nut	0133005
4	1/2" x 2" Cap Screw	0161024
5	10" Gasket	0992385

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MODEL 8120

ADD & FREESTANDING SPANS
5" PIPE
113.3[287.8cm]" & 75.5"[191.8cm]
COUPLER SPACING

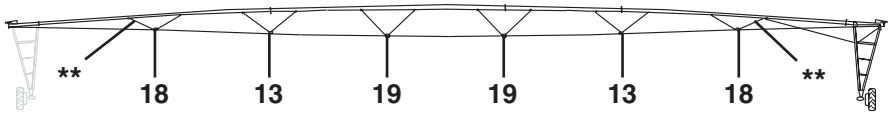


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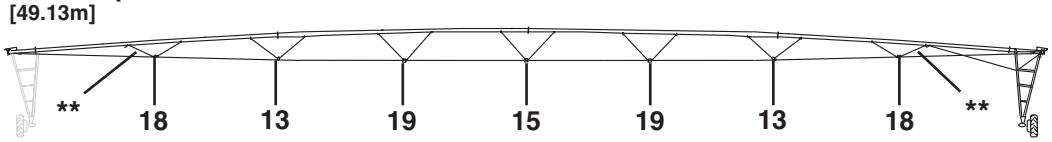
Functional Area	Assembly / Part	Rev# 06-06
5" Pipe - 113.3" & 75.5" Spacing	Truss Package Locations	

MODEL 8120

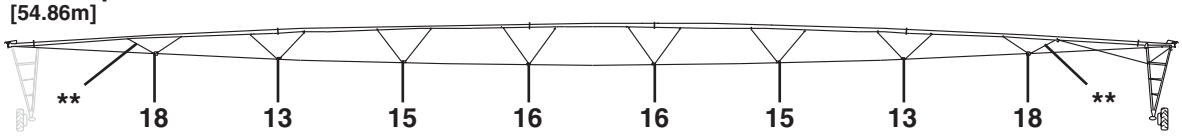
142.3' Span
[43.37m]



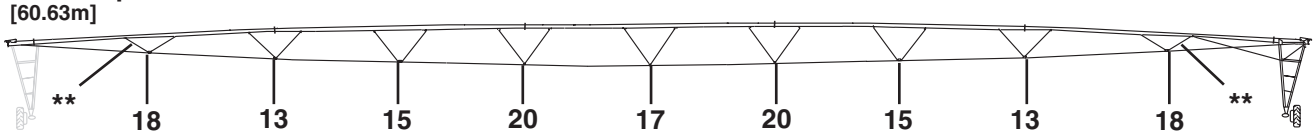
161.2' Span
[49.13m]



180' Span
[54.86m]



198.9' Span
[60.63m]

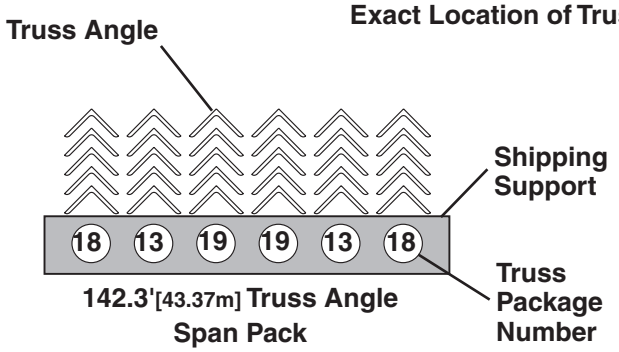


**** NOTE: Location of longer diagonal w/I.D. hole.**

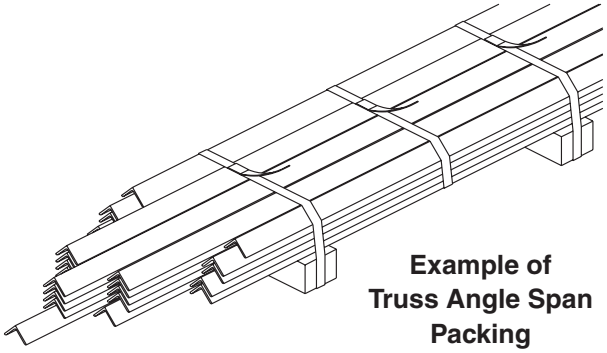
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MODEL 8120

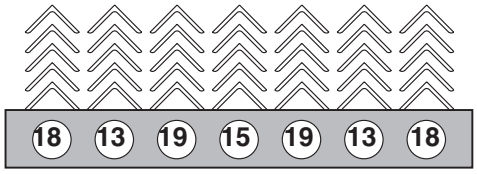
Reference Assembly Detail Page for Exact Location of Truss Packages



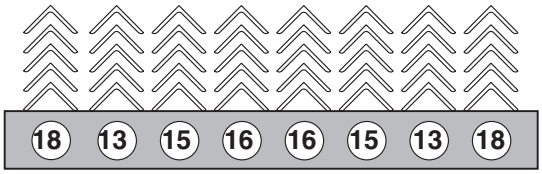
142.3'[43.37m] Truss Angle Span Pack (KA09478)



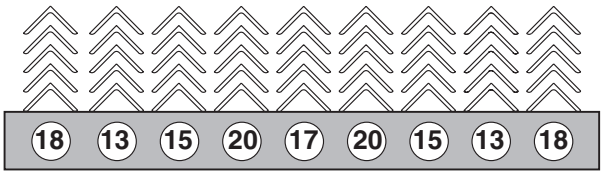
Example of Truss Angle Span Packing



161.2'[49.13m] Truss Angle Span Pack (KA09479)



180'[54.86m] Truss Angle Span Pack (KA09480)



198.9'[60.63m] Truss Angle Span Pack (KA09481)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

TRUSS PKG #	DIAGONAL			SPREADER		
	Part #	Overall Length Inch	cm	Part #	Overall Length Inch	cm
13	9361204	82.78"	[210.3cm]	9361205	92.69"	[235.4cm]
15	9361208	97.25"	[247.0cm]	9361209	115.03"	[292.2cm]
16	9361210	102.56"	[260.5cm]	9361211	122.94"	[312.3cm]
17	9361252	112.09"	[284.7cm]	9361253	136.84"	[347.6cm]
18	9361259**	63.36"	[160.9cm]	9361260	56.00"	[142.2cm]
	9361258	60.67"	[154.1cm]	-		-
19	9361256	92.71"	[235.5cm]	9361257	108.16"	[274.7cm]
20	9361254	108.50"	[275.6cm]	9361255	131.63"	[334.3cm]

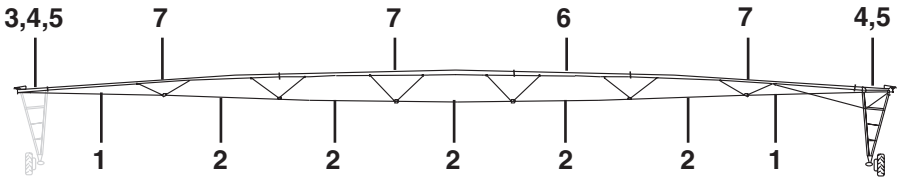
** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.

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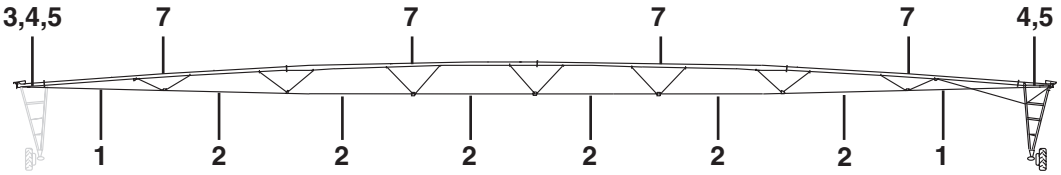
MODEL 8120

PRIOR to February 2012

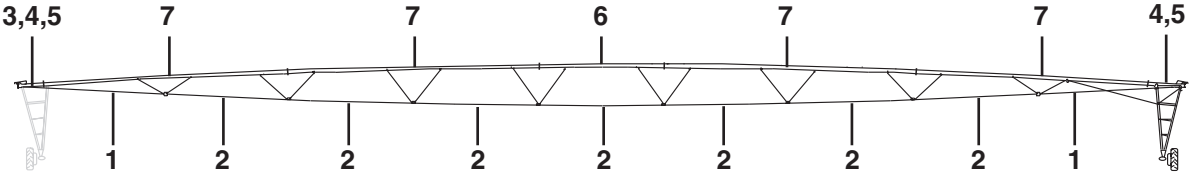
142.3' Span
[43.37m]



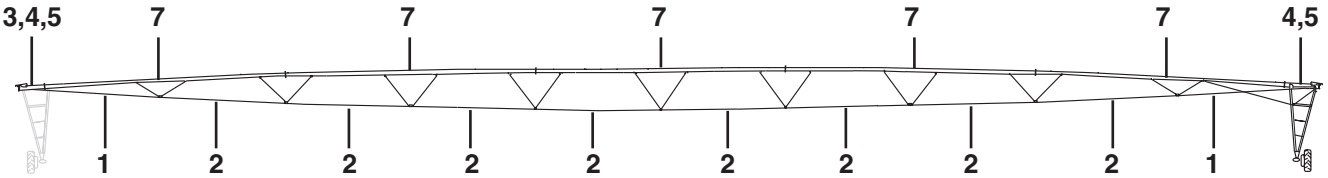
161.2' Span
[49.13m]



180' Span
[54.86m]



198.9' Span
[60.63m]

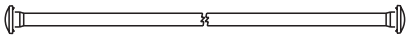


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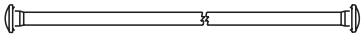
MODEL 8120

PRIOR to February 2012

22' - 2.84"[677.8cm] Head/Head

1  **Purple**

18' - 8.28"[569.7cm] Head/Head

2  **Gold**

5' - 0.50"[153.7cm]

3 

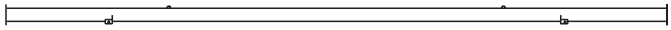
4' - 9.28"[145.5cm]

4 

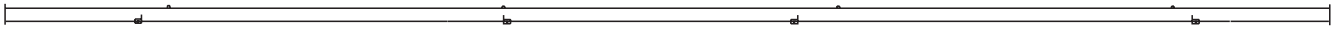
5' - 0.50"[153.7cm]

5 

18' - 10.41"[575.1cm]

6 

37' - 9.00"[1150.6cm]

7 

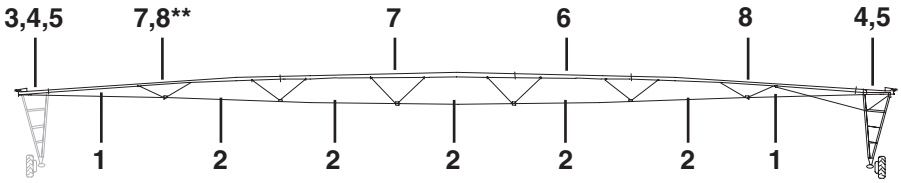
Item	Description	Part #	Part #
		113"[287.8cm]	75.5"[191.8cm]
1	3/4"[19mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360683	--
2	3/4"[19mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682	--
3	Swivel Stub Pipe (5'-0.50")[153.7cm]	9360917	--
4	Last Stub Pipe (4'-9.28")[145.5cm]	9360919	--
5	Fixed Stub Pipe (5'-0.50")[153.7cm]	9360918	--
6	19' Intermediate Pipe (18'-10.41")[575.1cm]	9360912	9360913
7	38' Intermediate Pipe (37'-9.00")[1150.6cm]	9360914	9360915

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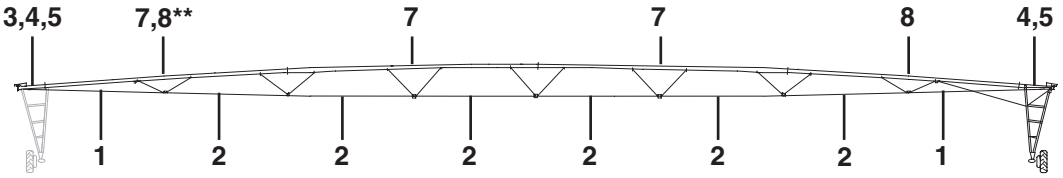
MODEL 8120

EFFECTIVE
February 2012

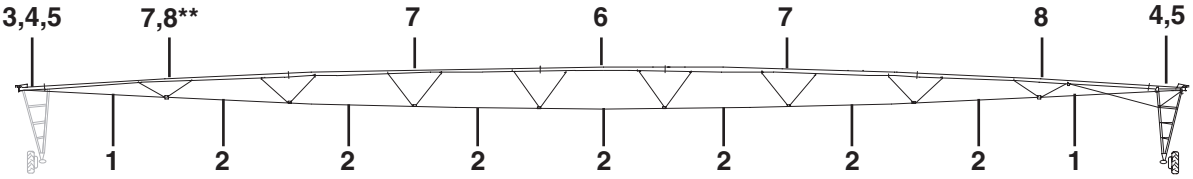
142.3' Span
[43.37m]



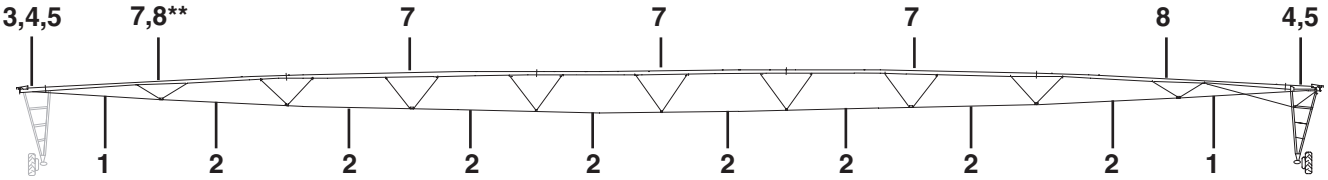
161.2' Span
[49.13m]



180' Span
[54.86m]



198.9' Span
[60.63m]



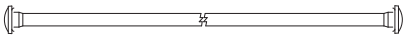
****NOTE: Tower Pipe used at both ends of Freestanding Spans.**

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MODEL 8120

EFFECTIVE
February 2012

1 **22' - 2.84"[677.8cm] Head/Head Purple**



2 **18' - 8.28"[569.7cm] Head/Head Gold**



3 **5' - 0.50"[153.7cm]**



4 **4' - 9.28"[145.5cm]**



5 **5' - 0.50"[153.7cm]**



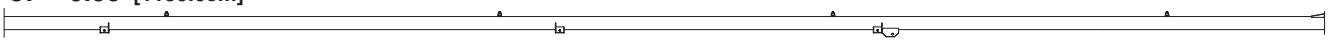
6 **18' - 10.41"[575.1cm]**



7 **37' - 9.00"[1150.6cm]**



8 **37' - 9.00"[1150.6cm]**

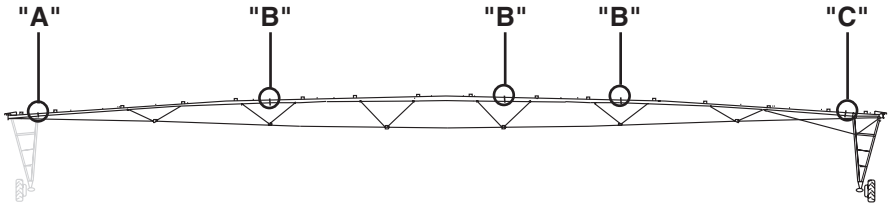


Item	Description	Part #	Part #
		113"[287.8cm]	75.5"[191.8cm]
1	3/4"[19mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360683	--
2	3/4"[19mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682	--
3	Swivel Stub Pipe (5'-0.50")[153.7cm]	9360917	--
4	Last Stub Pipe (4'-9.28")[145.5cm]	9360919	--
5	Fixed Stub Pipe (5'-0.50")[153.7cm]	9360918	--
6	19' Intermediate Pipe (18'-10.41")[575.1cm]	9360912	9360913
7	38' Intermediate Pipe (37'-9.00")[1150.6cm]	9360914	9360915
8	38' Tower Pipe (37'-9.00")[1150.6cm]	9363948	9363949

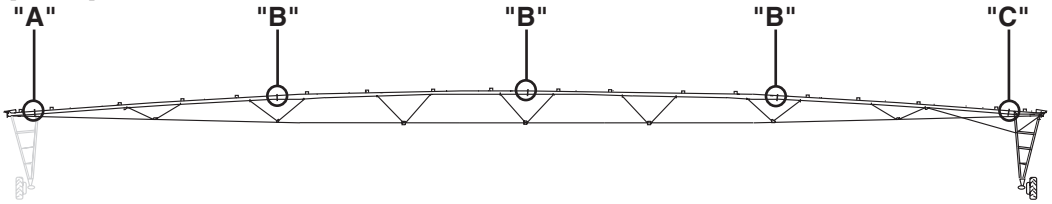
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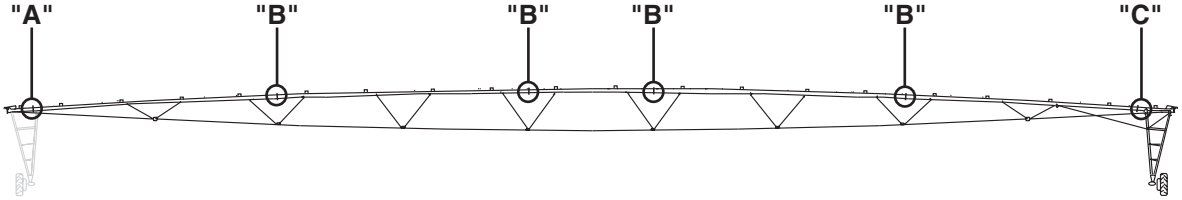
142.3' Span
[43.37m]



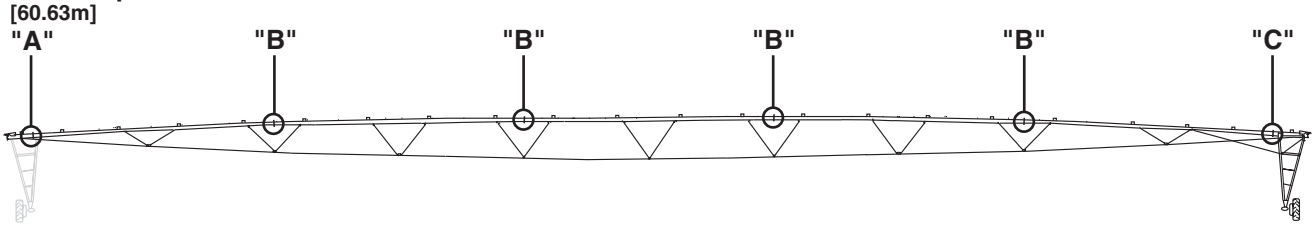
161.2' Span
[49.13m]



180' Span
[54.86m]



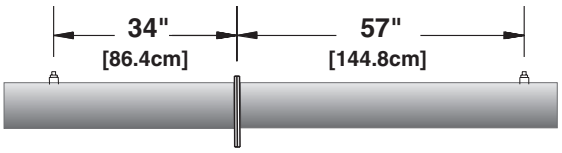
198.9' Span
[60.63m]



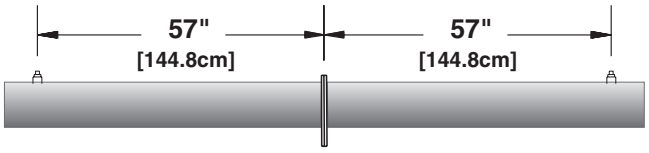
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MODEL 8120

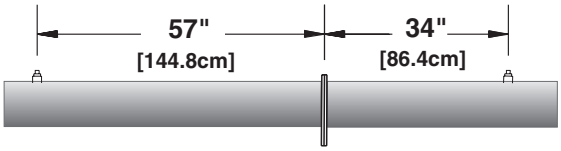
Detail "A"



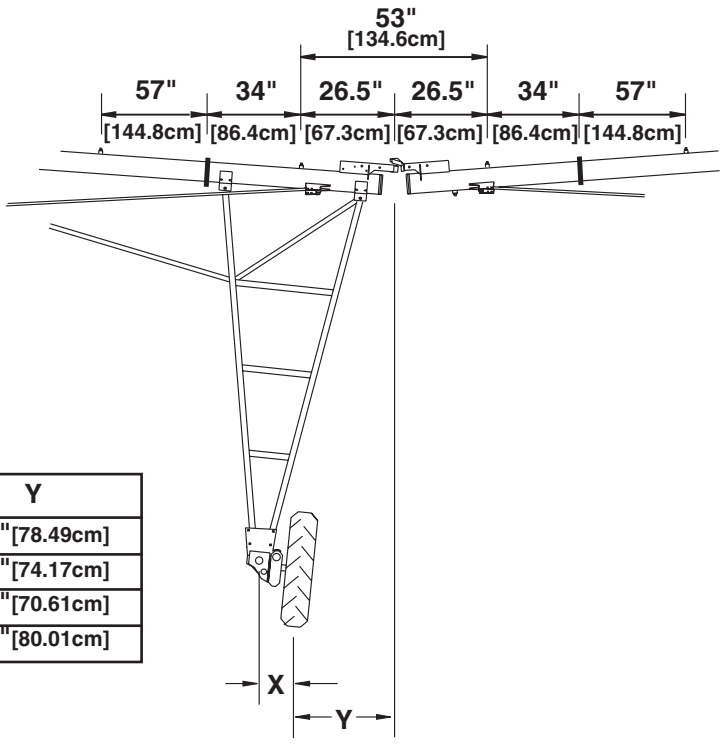
Detail "B"



Detail "C"



PIVOT



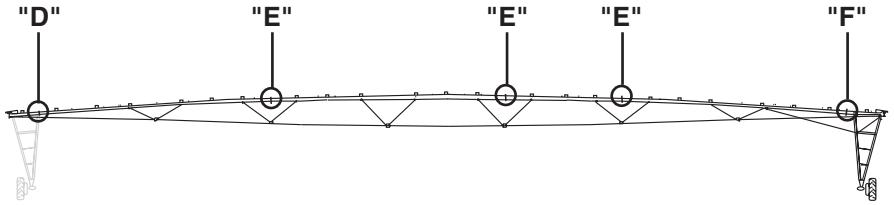
TIRE	X	Y
11.2 x 24	12.4"[31.50cm]	30.9"[78.49cm]
14.9 x 24	14.1"[35.81cm]	29.2"[74.17cm]
16.9 x 24	15.5"[39.37cm]	27.8"[70.61cm]
11.2 x 38	11.8"[29.97cm]	31.5"[80.01cm]

NOTE: The "Y" dimension can vary ±3.0"[76.2mm] depending on span length and crown.

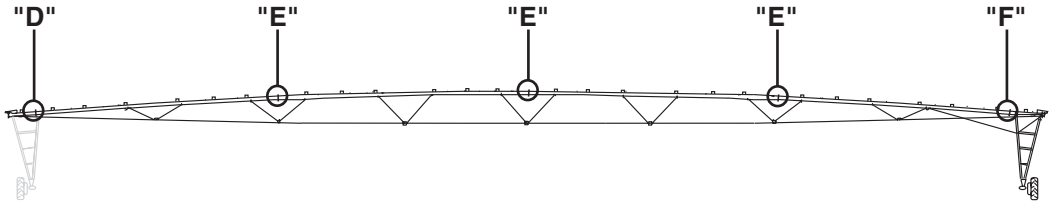
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MODEL 8120

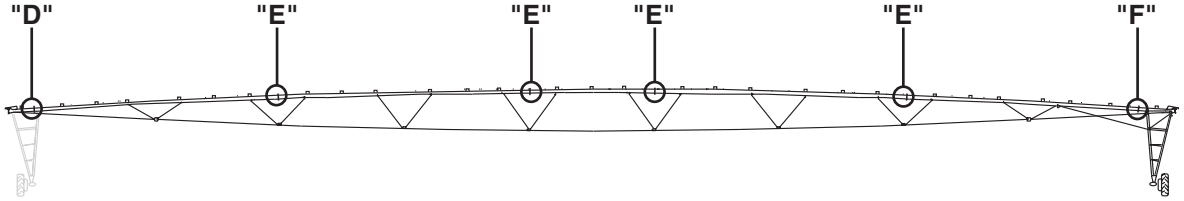
142.3' Span
[43.37m]



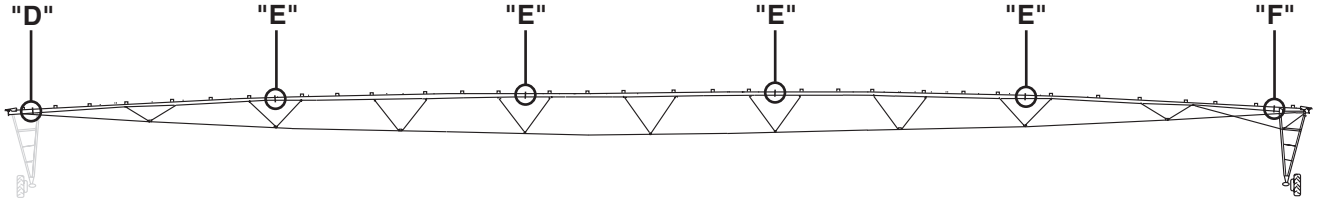
161.2' Span
[49.13m]



180' Span
[54.86m]



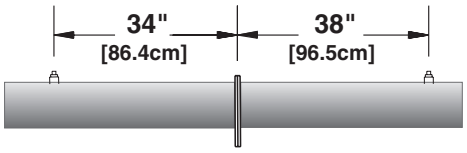
198.9' Span
[60.63m]



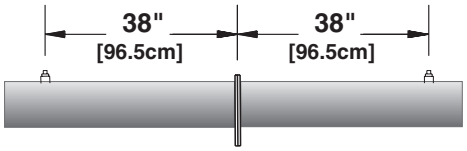
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MODEL 8120

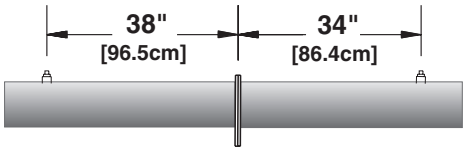
Detail "D"



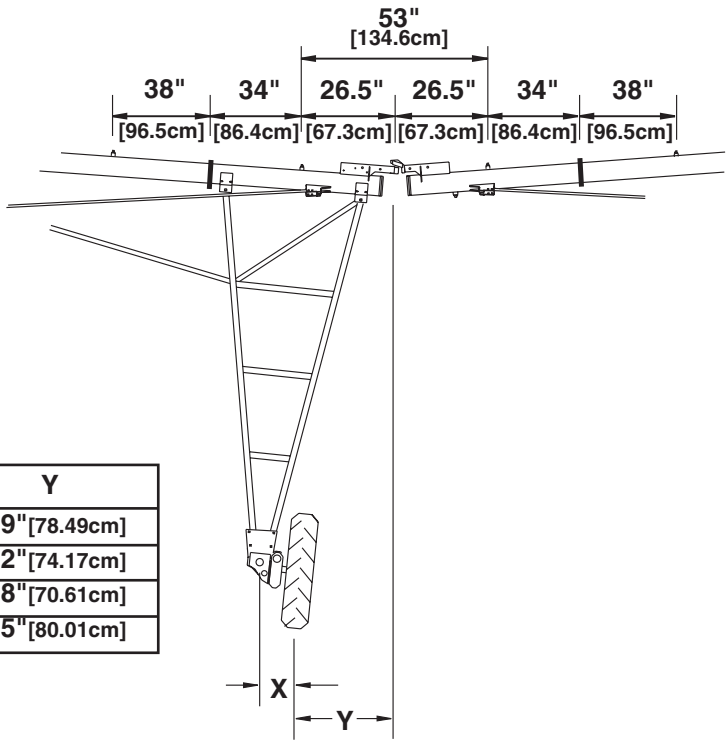
Detail "E"



Detail "F"





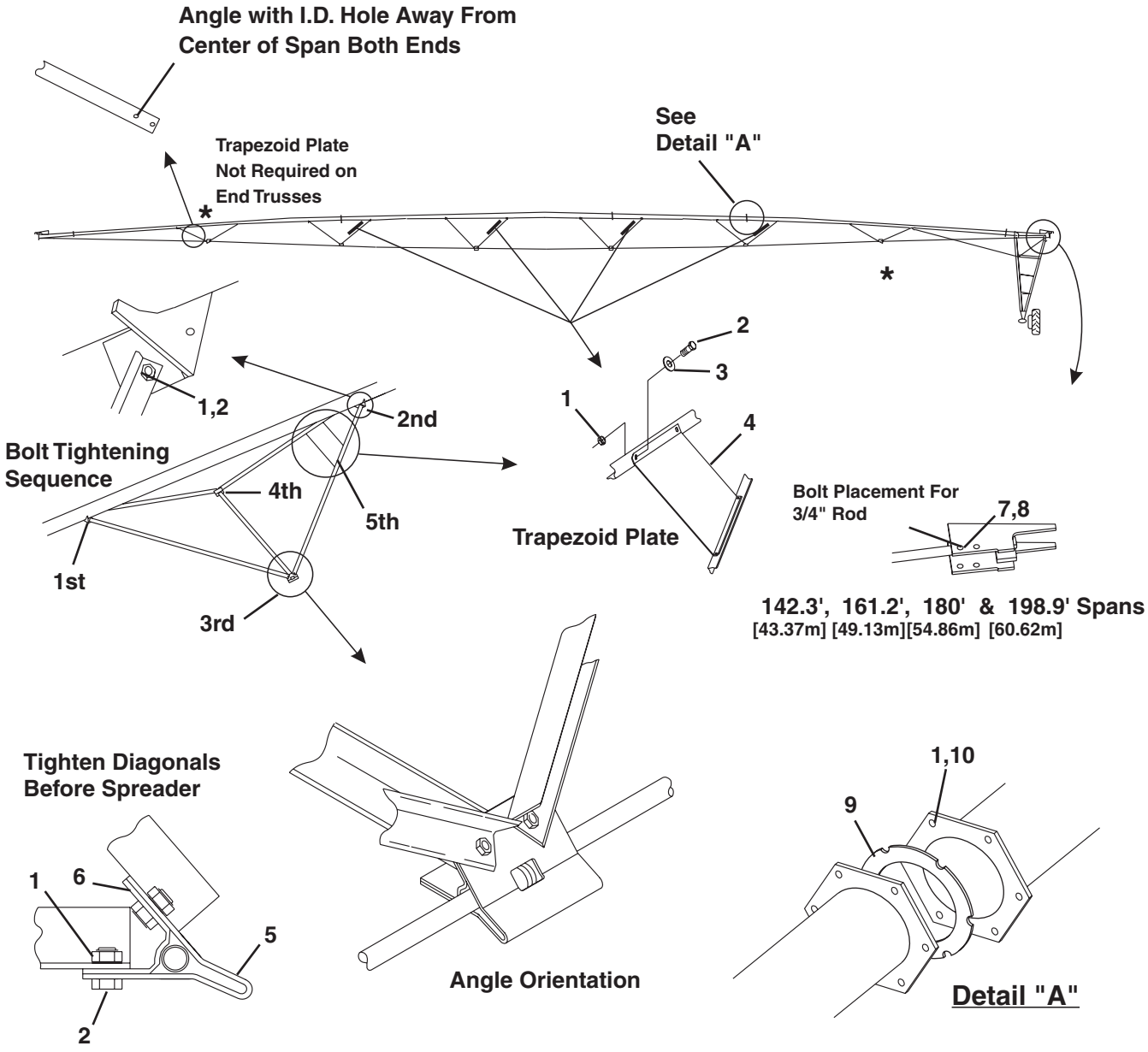


TIRE	X	Y
11.2 x 24	12.4"[31.50cm]	30.9"[78.49cm]
14.9 x 24	14.1"[35.81cm]	29.2"[74.17cm]
16.9 x 24	15.5"[39.37cm]	27.8"[70.61cm]
11.2 x 38	11.8"[29.97cm]	31.5"[80.01cm]

NOTE: The "Y" dimension can vary ±3.0"[76.2mm] depending on span length and crown.

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MODEL 8120



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	5" Gasket	0996071
10	1/2" x 2" Cap Screw	0161024

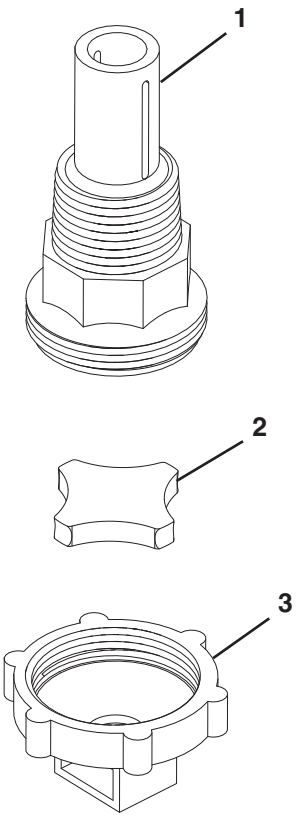
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PIPELINE ACCESSORIES



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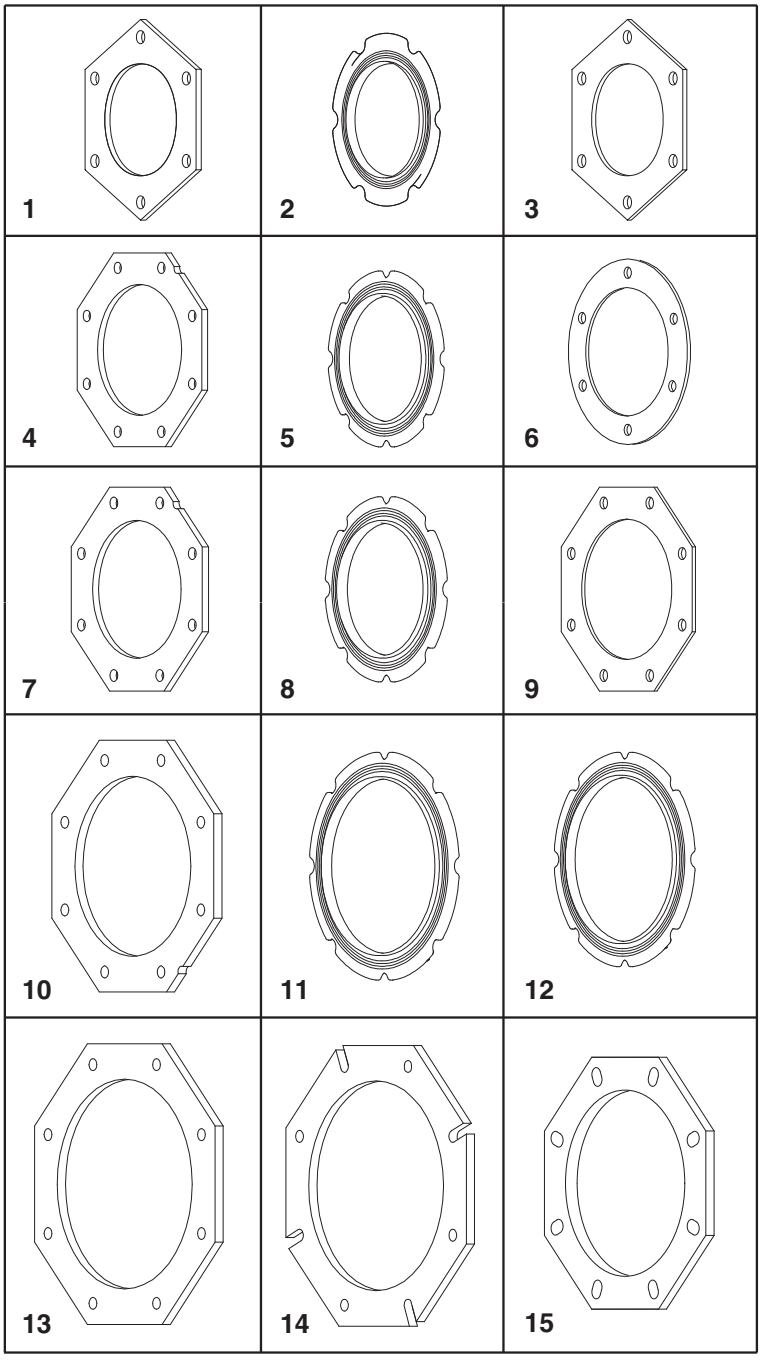
MODEL 8120



ITEM	DESCRIPTION	PART #
1	Upper Drain Body	0246170
	Upper Drain Body Alum (Not Shown)	0232023
2	Drain Seal	0232568
3	Lower Drain Body	0232004

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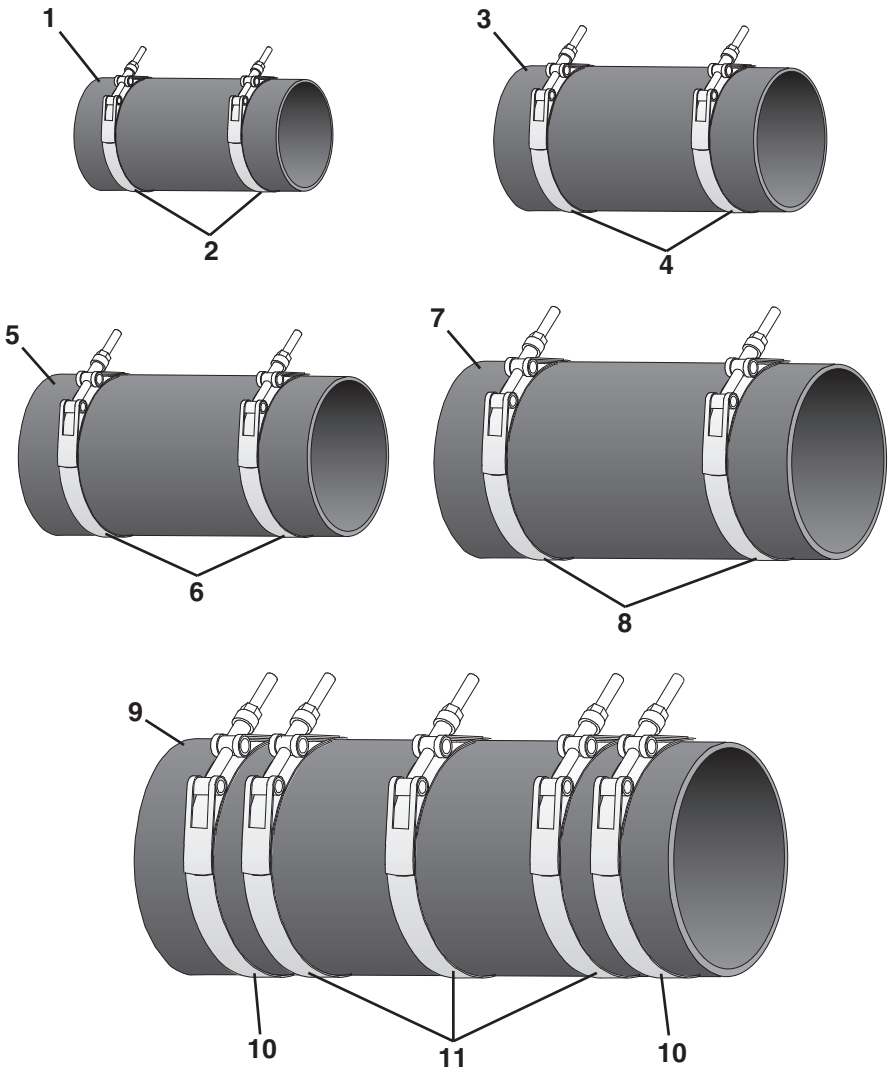
MODEL 8120



ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	5” Pipe Flange	9360910	9	6-5/8" Flat Rubber Gasket	0992211
2	5” Plastic Gasket	0996071	10	8-5/8" Pipe Flange	9360121
3	5” Flat Rubber Gasket	0996069	11	8-5/8" Pipe Gasket	0994500
4	6" to 6-5/8" Transition Flange	1750481	12	8” Pipe Gasket	0992439
5	6" Pipe Gasket	0994469	13	10" Pipe Flange	1702309
6	6" Flat Rubber Gasket	0991016	14	10" Flat Rubber Gasket	0992385
7	6-5/8" Pipe Flange	1800010	15	8" & 8-5/8” Univ. Flat Rubber Gasket	0996566
8	6-5/8" Pipe Gasket	0991107			

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MODEL 8120

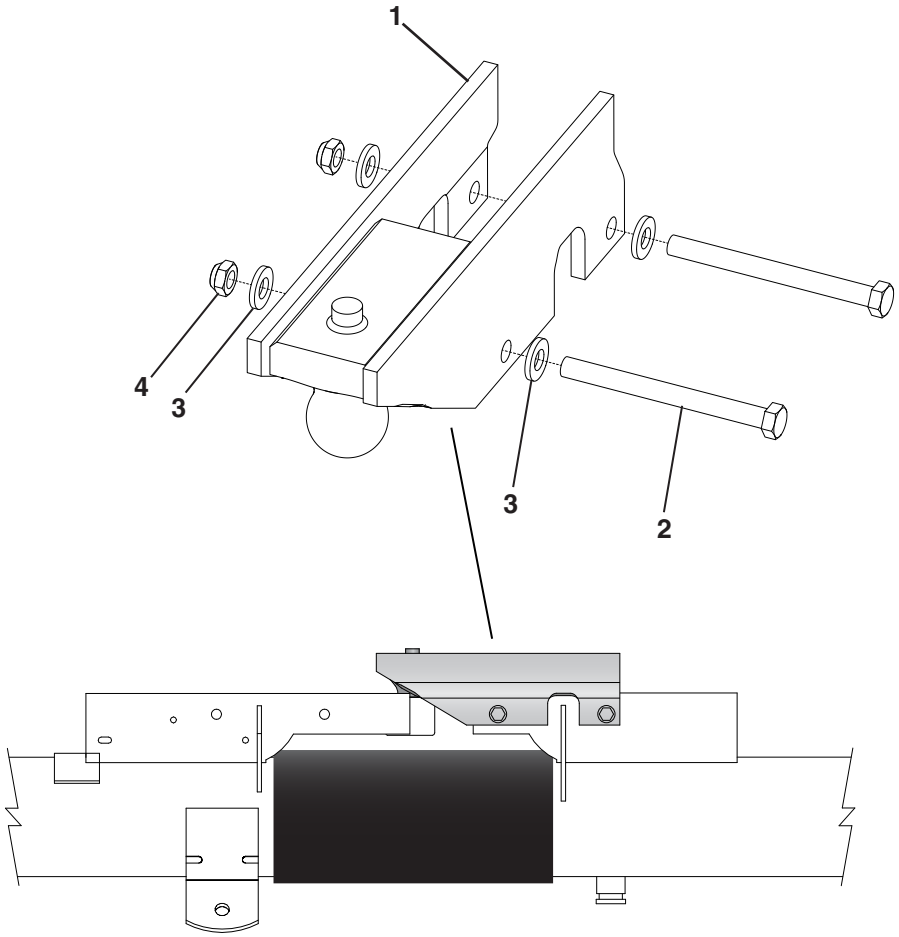


ITEM	DESCRIPTION	PART #
1	5” Flex Hose	0996080
2	5” Flex Joint Clamp	0995199
3	6" Flex Hose	0991187
4	6" Flex Joint Clamp	0991186
5	6-5/8" Flex Hose	1800318
	6-5/8" Flex Boot - Rough Ground	0996389
6	6-5/8" Flex Joint Clamp	0991087
7	8-5/8" Flex Hose	0994520
	8-5/8" Flex Boot - Rough Ground	0996390
8	8-5/8" Flex Joint Clamp	0994507
9	10" Flex Hose	1702326
	10" Flex Boot - Rough Ground	0996663
10	10" T-Bolt Clamp	0992386
11	10" Flex Joint Clamp	0992441

5" Span Flex Hose and Clamps Kit	KA02733
6" Span Flex Hose and Clamps Kit	KA02734
6-5/8" Span Flex Hose and Clamps Kit	KA02735
8-5/8" Span Flex Hose and Clamps Kit	KA02737

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MODEL 8120



ITEM	DESCRIPTION	PART #
1	Forged Hitch	9362529
2	1/2" x 5-1/2" Cap Screw	0161018
3	1/2" Flat Washer	0142025
4	1/2" Lock Nut	0133005
	Retrofit Forged Hitch Ball Kit	0000F71

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PolySpan® - ADD & FREESTANDING SPANS

Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
MODEL 8000P		
6-5/8" Pipe - 30"[76.2cm], 60"[152.4cm] & 108"[274.3cm] Coupler Spacing		
Truss Package Locations	03-17	12-4
Truss Angle Packages	03-17	12-5
Pipe/Truss Rod Locations	03-17	12-6
Pipes/Truss Rods	03-17	12-7
Sprinkler Coupling Locations	03-17	12-8
Sprinkler Coupling Location Details	06-06	12-9
Assembly Details	06-06	12-10
8-5/8" Pipe - 30"[76.2cm], 60"[152.4cm] & 108"[274.3cm] Coupler Spacing		
Truss Package Locations	03-17	12-12
Truss Angle Packages	03-17	12-13
Pipe/Truss Rod Locations	03-17	12-14
Pipes/Truss Rods	06-06	12-15
Sprinkler Coupling Locations	03-17	12-16
Sprinkler Coupling Location Details	06-06	12-17
Assembly Details	06-06	12-18
Transition Details Model 8000P	12-18	12-19
Zero Length Transition - Poly	01-17	12-20
MODEL 8120P		
6-5/8" Pipe - 75.5"[191.8cm], 113"[287.0cm] Coupler Spacing		
Truss Package Locations	03-17	12-22
Truss Angle Packages	03-17	12-23
Pipe/Truss Rod Locations - PRIOR to Feb. 2012	10-11	12-24
Pipes/Truss Rods - PRIOR to Feb. 2012	12-15	12-25
Pipe/Truss Rod Locations - EFFECTIVE Feb. 2012	03-17	12-26
Pipes/Truss Rods - EFFECTIVE Feb. 2012	03-17	12-27
Sprinkler Coupling Location Details	06-06	12-28
Assembly Details	06-06	12-29
8-5/8" Pipe - 75.5"[191.8cm], 113"[287.0cm] Coupler Spacing		
Truss Package Locations	03-17	12-32
Truss Angle Packages	03-17	12-33
Pipe/Truss Rod Locations - PRIOR to Feb. 2012	10-11	12-34
Pipes/Truss Rods - PRIOR to Feb. 2012	10-11	12-35
Pipe/Truss Rod Locations - EFFECTIVE Feb. 2012	03-17	12-36
Pipes/Truss Rods - EFFECTIVE Feb. 2012	03-17	12-37
Sprinkler Coupling Location Details	06-06	12-38
Assembly Details	06-06	12-39
Transition Details	12-18	12-40
Zero Length Transition - Poly	01-17	12-41
Standard Sprinkler Drop Detail	06-06	12-42
Optional Sprinkler Drop Detail	06-06	12-43
Flex Hose, Hitch & Coupler Components	12-18	12-44

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Description	Rev. #	Pg. #
MODEL 8000P - EXPORT		
6-5/8" Export Pipe - 90"[228.6cm] Coupler Spacing		
Truss Package Locations	06-06	12-46
Truss Angle Packages	06-06	12-47
Pipe/Truss Rod Locations	06-06	12-48
Pipes/Truss Rods	06-06	12-49
Sprinkler Coupling Locations	06-06	12-50
Sprinkler Coupling Location Details	06-06	12-51
Assembly Details	06-06	12-52
8-5/8" Export Pipe - 90"[228.6cm] Coupler Spacing		
Truss Package Locations	09-08	12-54
Truss Angle Packages	09-08	12-55
Pipe/Truss Rod Locations	09-08	12-56
Pipes/Truss Rods	06-06	12-57
Sprinkler Coupling Locations	09-08	12-58
Sprinkler Coupling Location Details	06-06	12-59
Assembly Details	06-06	12-60

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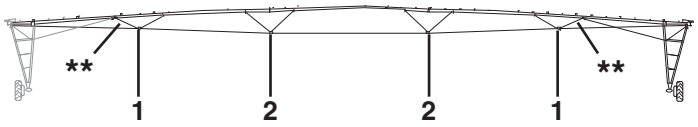
ADD & FREESTANDING PolySpans
6-5/8" PIPE
30"[76.2cm], 60"[152.4cm] & 108"[274.3cm]
COUPLER SPACING



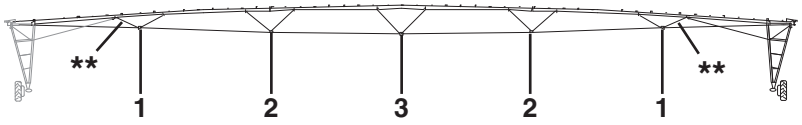
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MODEL 8000P

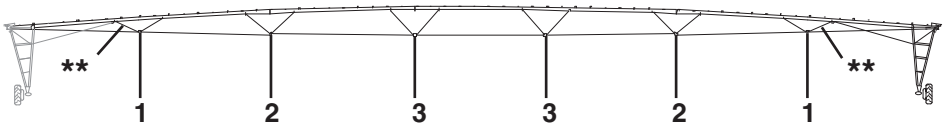
115' Span
[35.05m]



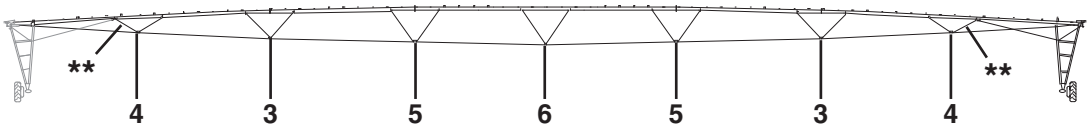
135' & 140' Span
[41.15m] & [42.67m]



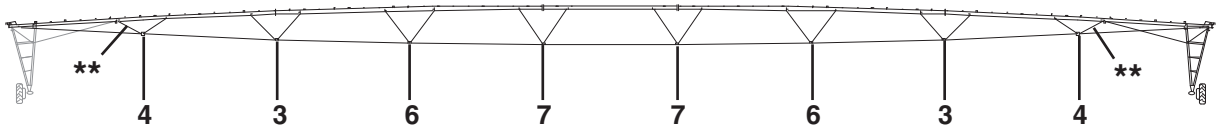
160' Span
[48.77m]



180',185' & 187' Span
[54.86m][56.39m] & [57.00m]



205' Span
[62.48m]

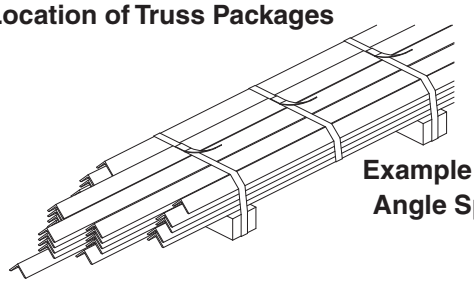


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

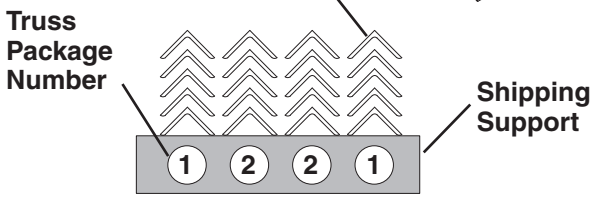
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MODEL 8000P

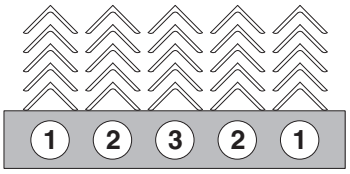
Reference Assembly Detail Page for Exact Location of Truss Packages



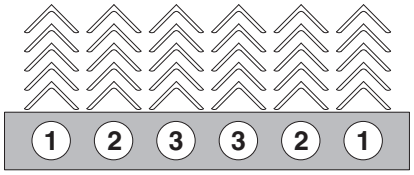
Example of 135' Truss Angle Span Packing



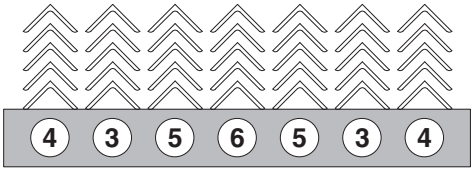
115'[35.05m] Truss Angle Span Pack (KA09116)



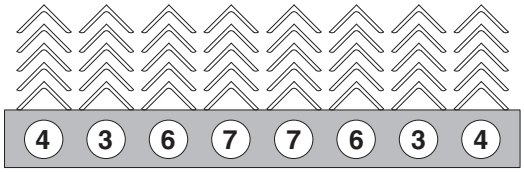
135'[41.15m] & 140'[42.67m] Truss Angle Span Pack (KA09023)



160'[48.77m] Truss Angle Span Pack (KA09024)



180'[54.86m], 185'[56.39m] & 187'[57.00m] Truss Angle Span Pack (KA09025)



205'[62.48m] Truss Angle Span Pack (KA09026)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

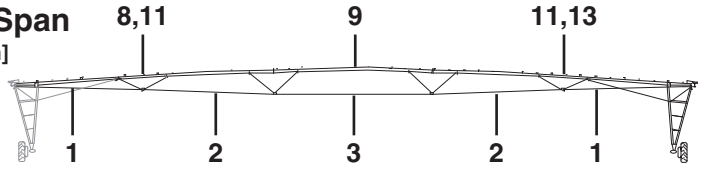
TRUSS PKG #	DIAGONAL			SPREADER		
		Overall Length			Overall Length	
	Part #	Inches	cm	Part #	Inches	cm
1	9360046**	58.42"	[148.4]	9360047	44.69"	[113.5]
	9360073	55.38"	[140.7]	-	-	-
2	9360048	72.97"	[185.3]	9360049	76.44"	[194.2]
3	9360050	82.78"	[210.3]	9360051	92.69"	[235.4]
4	9360052**	61.68"	[156.7]	9360053	52.25"	[132.7]
	9360074	58.81"	[148.6]	-	-	-
5	9360054	97.25"	[247.0]	9360055	115.03"	[292.2]
6	9360056	102.56"	[260.5]	9360057	122.94"	[312.3]
7	9360058	112.09"	[284.7]	9360059	136.84"	[347.6]

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

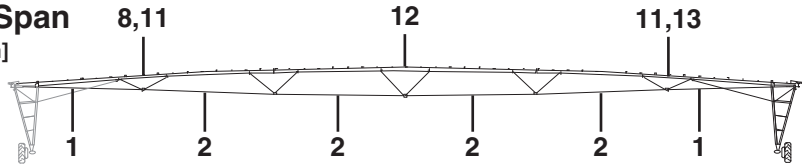
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MODEL 8000P

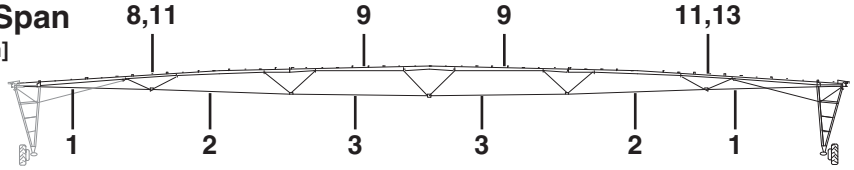
115' Span
[35.05m]



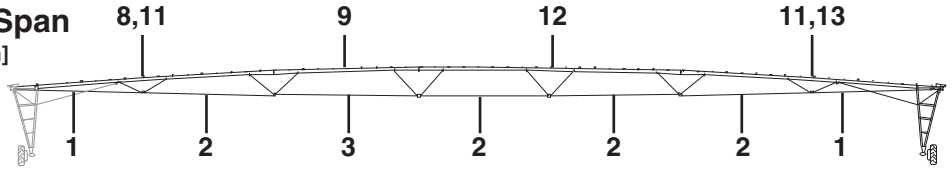
135' Span
[41.15m]



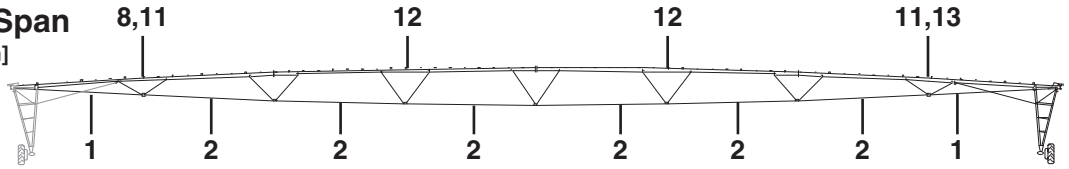
140' Span
[42.67m]



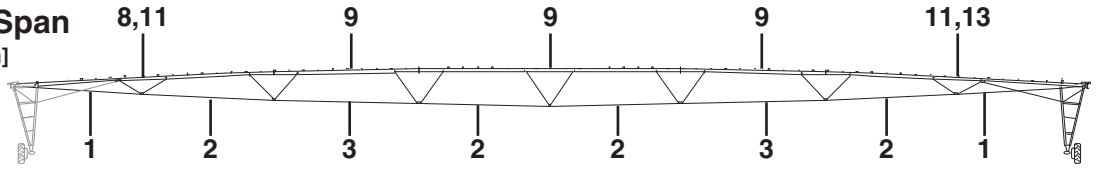
160' Span
[48.77m]



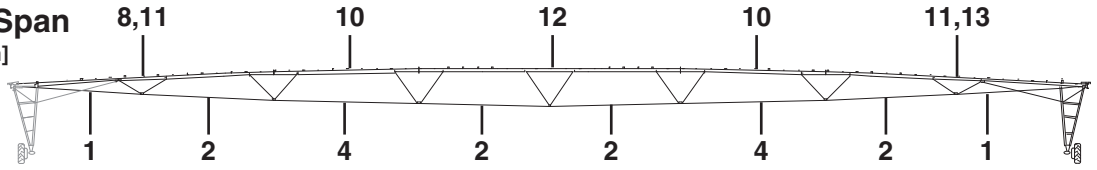
180' Span
[54.86m]



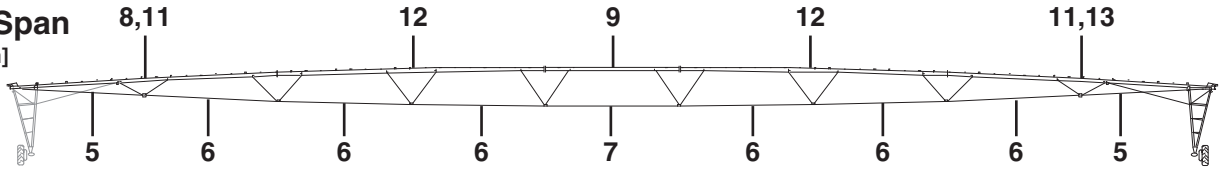
185' Span
[56.39m]



187' Span
[57.00m]



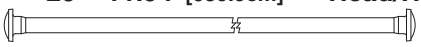
205' Span
[62.48m]



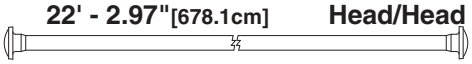
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MODEL 8000P

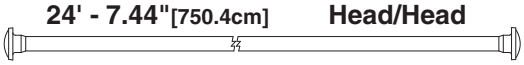
1 **20' - 11.94"[639.9cm] Head/Head Yellow**



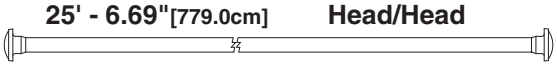
2 **22' - 2.97"[678.1cm] Head/Head No Color**



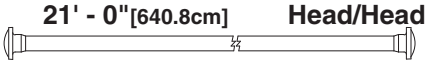
3 **24' - 7.44"[750.4cm] Head/Head Blue**



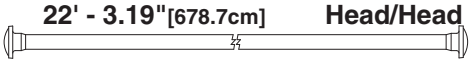
4 **25' - 6.69"[779.0cm] Head/Head Black**



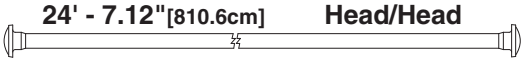
5 **21' - 0"[640.8cm] Head/Head Orange**



6 **22' - 3.19"[678.7cm] Head/Head Red**



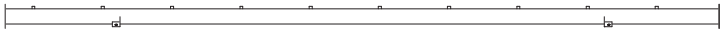
7 **24' - 7.12"[810.6cm] Head/Head Green**



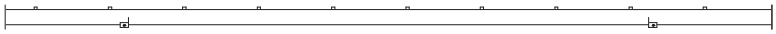
8 **45' - 1.88"[1376.4cm]**



9 **24' - 10.00"[756.9cm]**



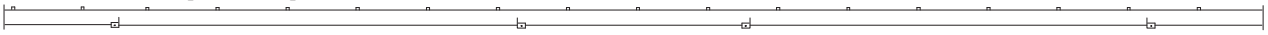
10 **25' - 9.25"[785.5cm]**



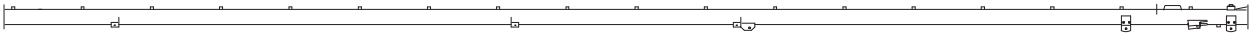
11 **45' - 1.88"[1376.4cm]**



12 **44' - 10.75"[1368.4cm]**



13 **44' - 10.75"[1368.4cm]**



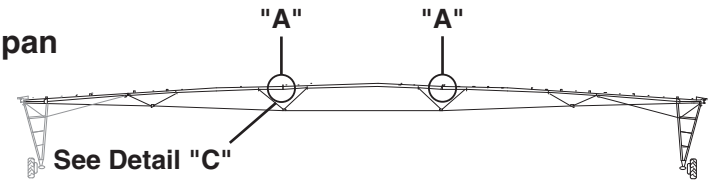
ITEM	DESCRIPTION	Part #		
1	3/4" Tower Truss Rod (20' - 11.94")	9360060		
2	3/4" Standard Intermediate Truss Rod (22' - 2.97")	9360061		
3	3/4" Intermediate Truss Rod (24' - 7.44")	9360062		
4	3/4" Intermediate Truss Rod (25' - 6.69")	9360063		
5	13/16" Tower Truss Rod (21' - 0")	9360064		
6	13/16" Standard Intermediate Truss Rod (22' - 3.19")	9360065		
7	13/16" Intermediate Truss Rod (24' - 7.12")	9360066		
		108" Spacing	60" Spacing	30" Spacing
8	Swivel Pipe	9362683	9362701	9362768
9	25' Intermediate Pipe	9362677	9362705	9362762
10	26' Intermediate Pipe	-	9362709	9362786
11	Fixed Pipe	9362685	9362703	9362770
12	45' Intermediate Pipe	9362679	9362707	9362764
13	Last Pipe	9362687	9362711	9362772

NOTE: Two (2) fixed pipes and drive units are required on all freestanding spans.

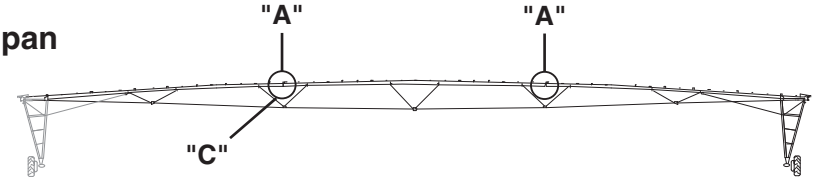
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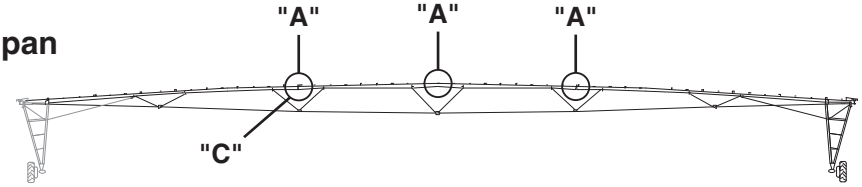
115' Span
[35.05m]



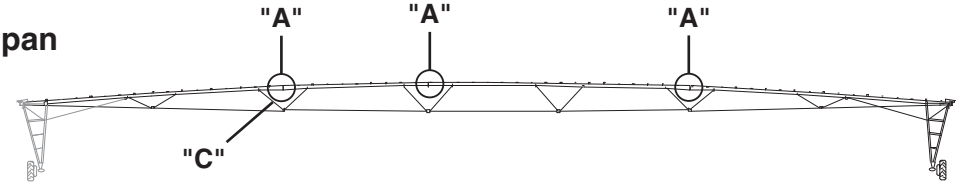
135' Span
[41.15m]



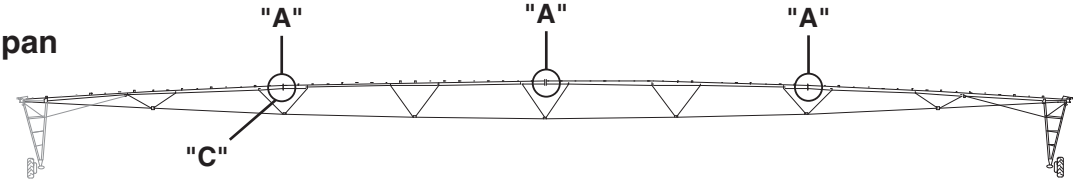
140' Span
[42.67m]



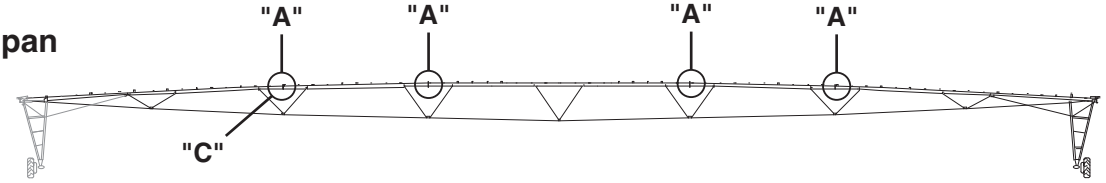
160' Span
[48.77m]



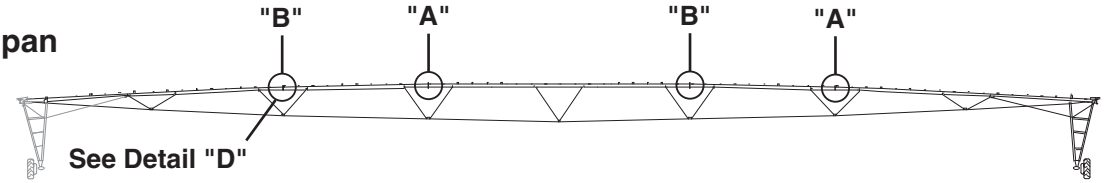
180' Span
[54.86m]



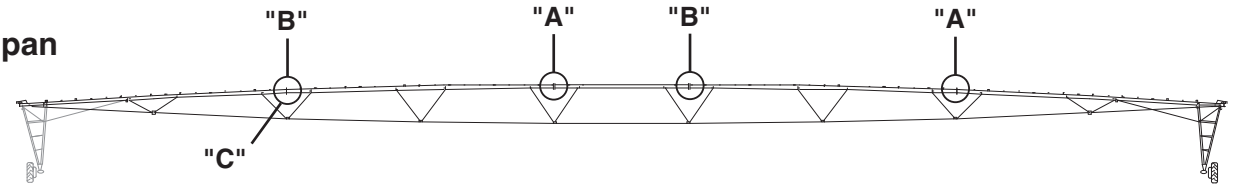
185' Span
[56.39m]



187' Span
[57.00m]



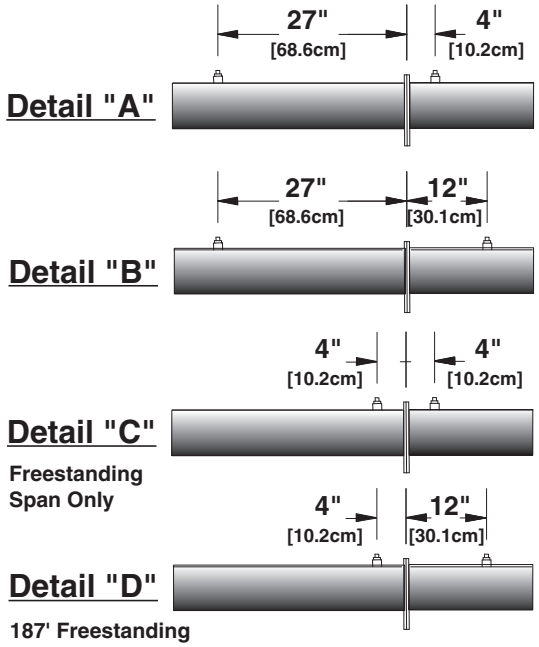
205' Span
[62.48m]



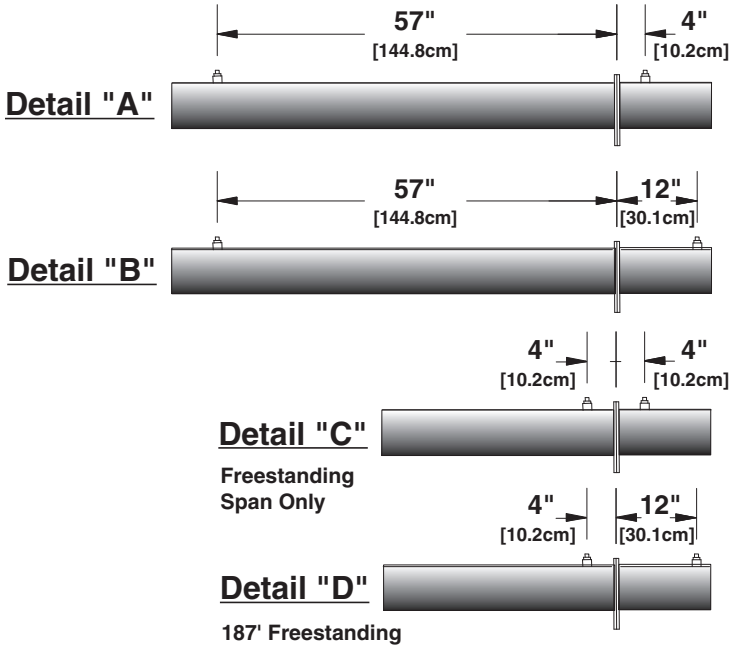
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MODEL 8000P

30" Spacing Details

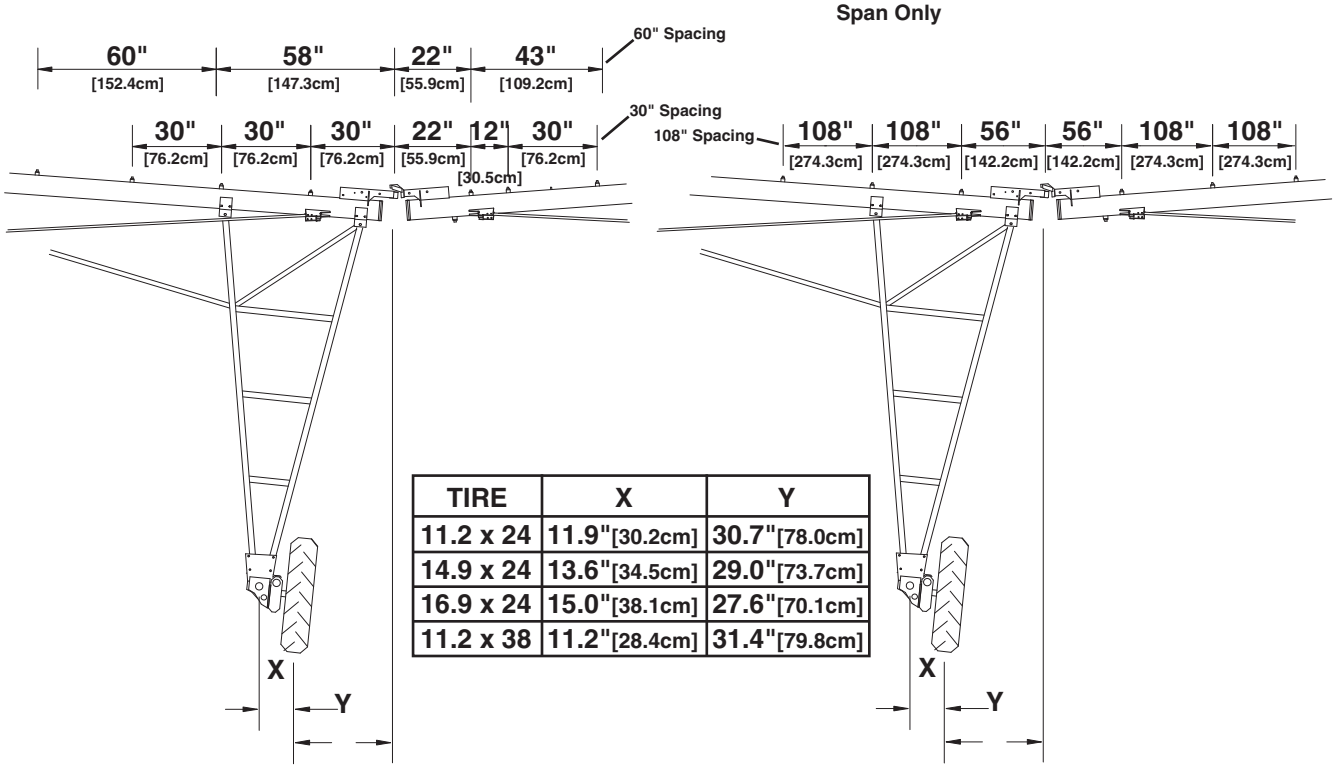


60" Spacing Details



108" Spacing Detail

NOTE: Sprinkler outlets on all 108" spaced intermediate pipe are symmetrically spaced. Specific pipe orientation is not required for correct sprinkler installation.

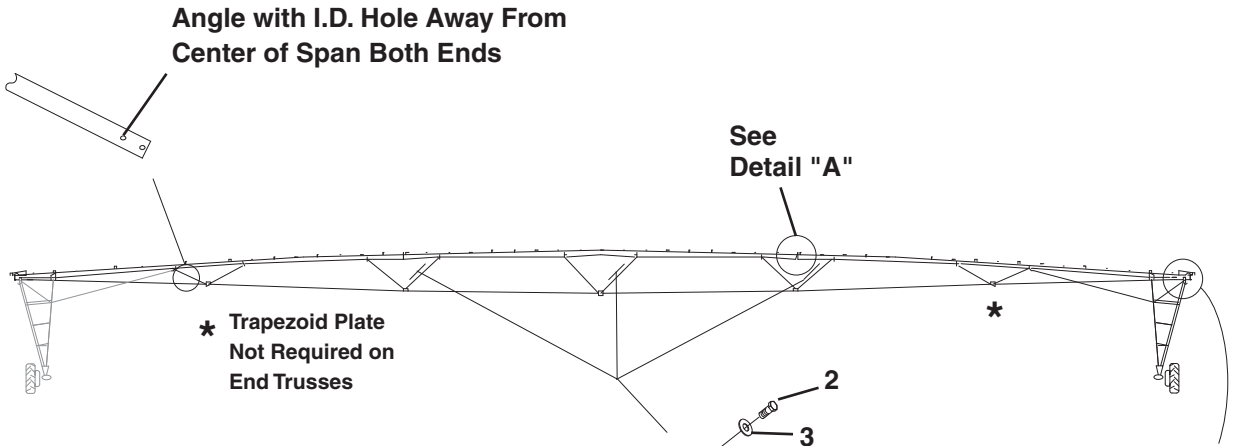


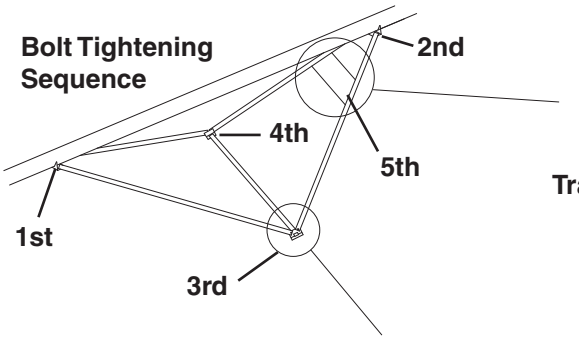
TIRE	X	Y
11.2 x 24	11.9"[30.2cm]	30.7"[78.0cm]
14.9 x 24	13.6"[34.5cm]	29.0"[73.7cm]
16.9 x 24	15.0"[38.1cm]	27.6"[70.1cm]
11.2 x 38	11.2"[28.4cm]	31.4"[79.8cm]

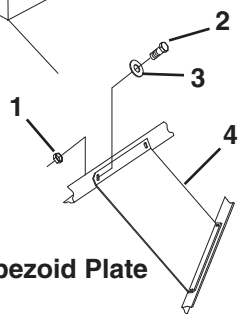
NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

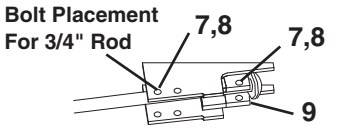
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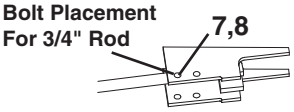




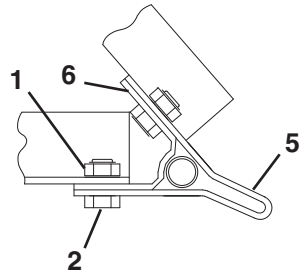


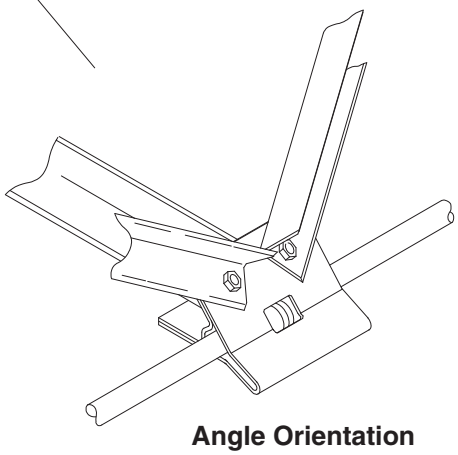


115', 135', 140', & 160' Spans
[35.05m][41.15m][42.67m] [48.77m]

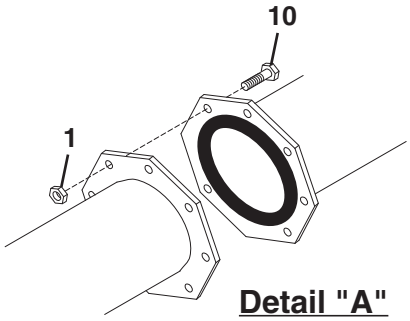


180', 185' & 187' Spans
[54.86m][56.39m] [57.00m]





Angle Orientation



Detail "A"
(no Gasket req'd)

ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	Truss Rod Spacer	9360080
10	1/2" x 2-1/2" Cap Screw	0161023

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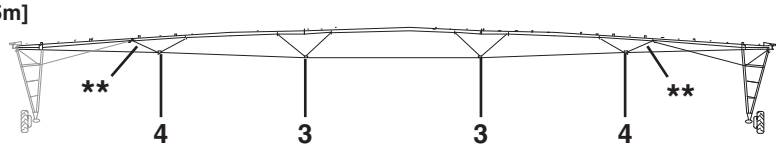
ADD & FREESTANDING PolySpans
8-5/8" PIPE
30"[76.2cm], 60"[152.4cm] & 108"[274.3cm]
COUPLER SPACING



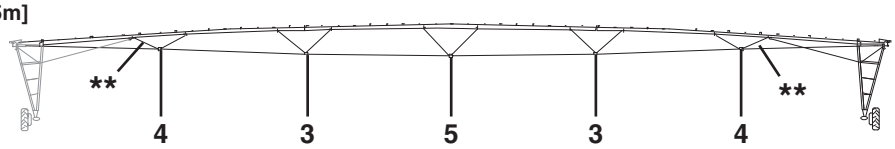
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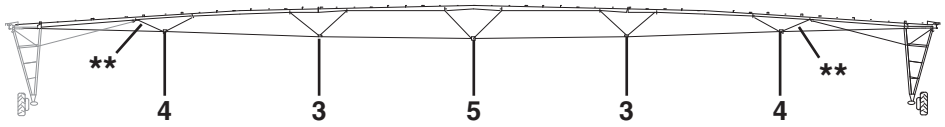
115' Span
[35.05m]



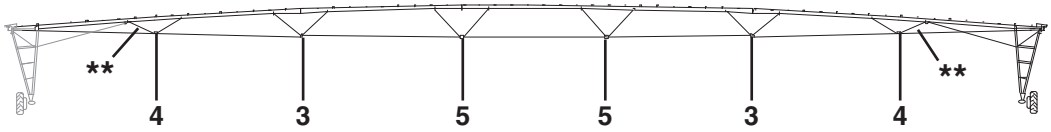
135' Span
[41.15m]



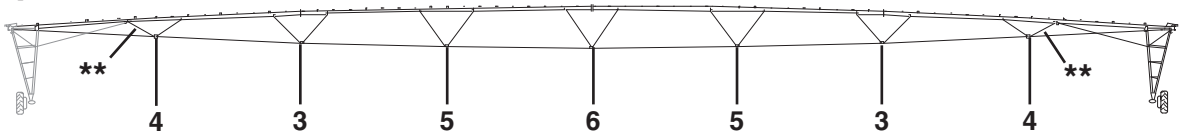
140' Span
[42.67m]



160' Span
[48.77m]



180' Span
[54.86m]

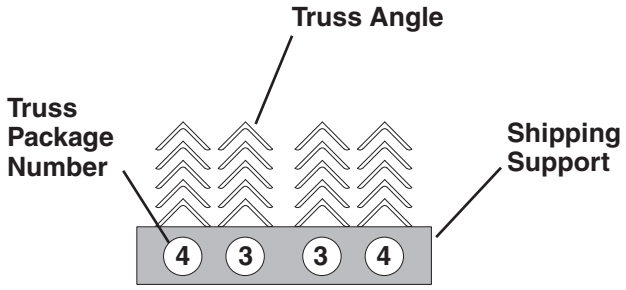


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

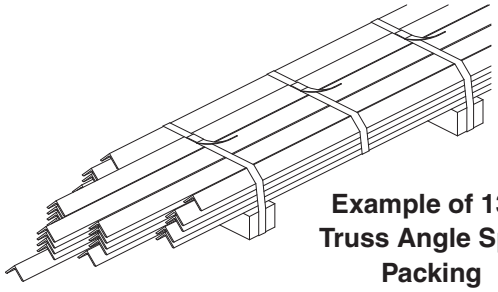
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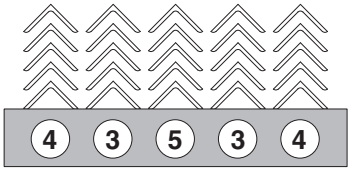
Reference Assembly Detail Page for Exact Location of Truss Packages



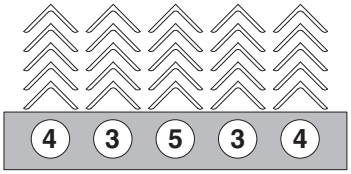
115'[35.05m] Truss Angle Span Pack (KA09117)



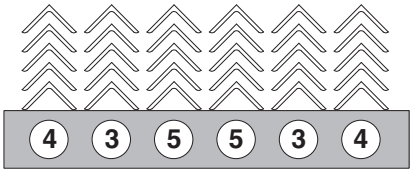
Example of 135' Truss Angle Span Packing



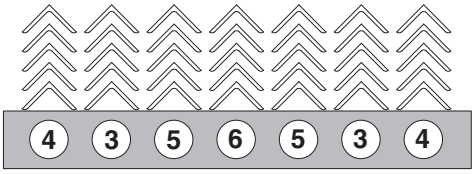
135'[41.15m] Truss Angle Span Pack (KA09047)



140'[42.67m] Truss Angle Span Pack (KA09047)



160'[48.77m] Truss Angle Span Pack (KA09050)



180'[54.86m] Truss Angle Span Pack (KA09025)

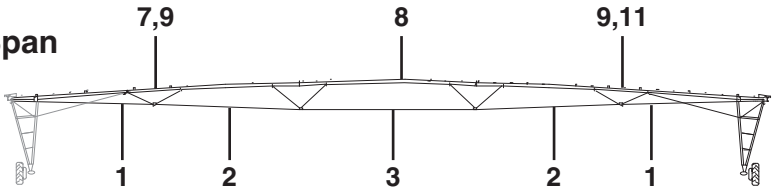
NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

TRUSS PKG #	DIAGONAL			SPREADER		
		Overall Length			Overall Length	
	Part #	Inches	cm	Part #	Inches	cm
3	9360050	82.78"	[210.3]	9360051	92.69"	[235.4]
4	9360052**	61.68"	[156.7]	9360053	52.25"	[132.7]
	9360074	58.81"	[148.6]	-	-	-
5	9360054	97.25"	[247.0]	9360055	115.03"	[292.2]
6	9360056	102.56"	[260.5]	9360057	122.94"	[312.3]

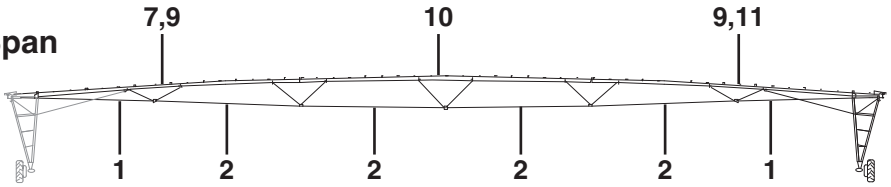
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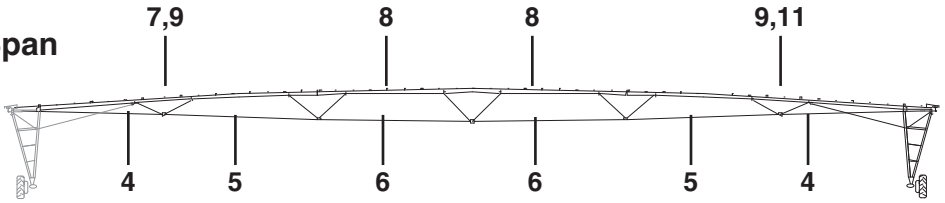
115' Span
[35.05m]



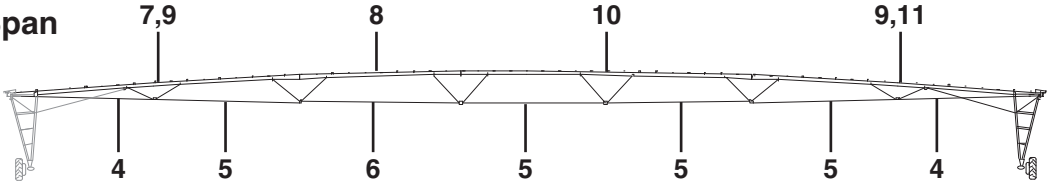
135' Span
[41.15m]



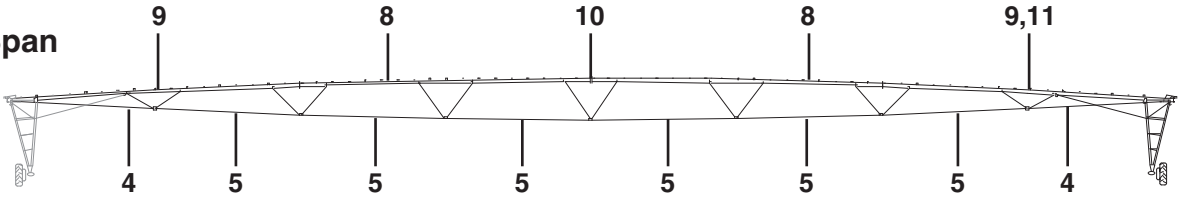
140' Span
[42.67m]



160' Span
[48.77m]



180' Span
[54.86m]



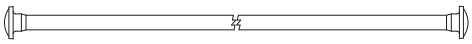
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MODEL 8000P

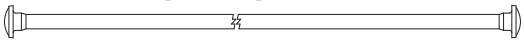
1 **20' - 11.94"[639.9cm] Head/Head Yellow**



2 **22' - 2.97"[678.1cm] Head/Head No Color**



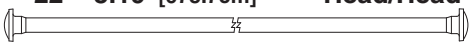
3 **24' - 7.44"[750.4cm] Head/Head Blue**



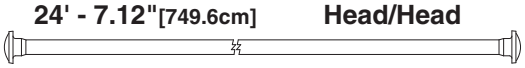
4 **21' - 6.69"[657.1cm] Head/Head Orange**



5 **22' - 3.19"[678.7cm] Head/Head Red**



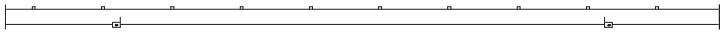
6 **24' - 7.12"[749.6cm] Head/Head Green**



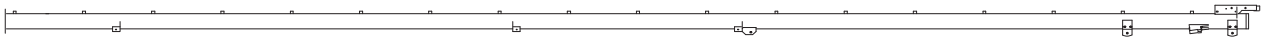
7 **45' - 1.88"[1376.4cm]**



8 **24' - 10.00"[756.9cm]**



9 **45' - 1.88"[1376.4cm]**



10 **44' - 10.75"[1368.4cm]**



11 **44' - 10.75"[1368.4cm]**



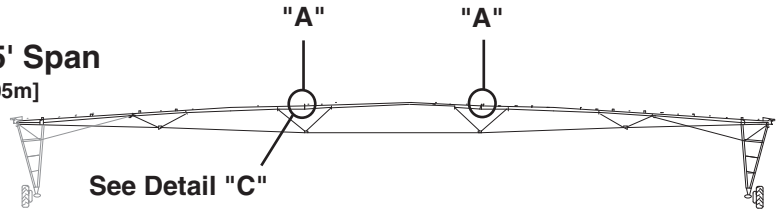
ITEM	DESCRIPTION	Part #		
1	3/4" Tower Truss Rod (20' - 11.94")	9360060		
2	3/4" Standard Intermediate Truss Rod (22' - 2.97")	9360061		
3	3/4" Intermediate Truss Rod (24' - 7.44")	9360062		
4	13/16" Tower Truss Rod (21' - 0")	9360064		
5	13/16" Standard Intermediate Truss Rod (22" - 3/19")	9360065		
6	13/16" Intermediate Truss Rod (24' - 7.12")	9360066		
		108" Spacing	60" Spacing	30" Spacing
7	Swivel Pipe (45'-1.88")[1376.4cm]	9362731	9362741	9362776
8	25' Intermediate Pipe (24'-10.00")[756.9cm]	9362725	9362747	9362782
9	Fixed Pipe (45'-1.88")[1376.4cm]	9362733	9362743	9362778
10	45' Intermediate Pipe (44'-10.75")[1368.4cm]	9362727	9362749	9362784
11	Transition Pipe (44'-10.75")[1368.4cm]	9362735	9362745	9362780

NOTE: Two (2) fixed pipes and drive units are required on all freestanding spans.

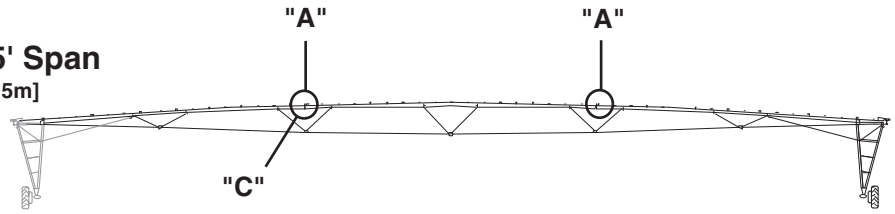
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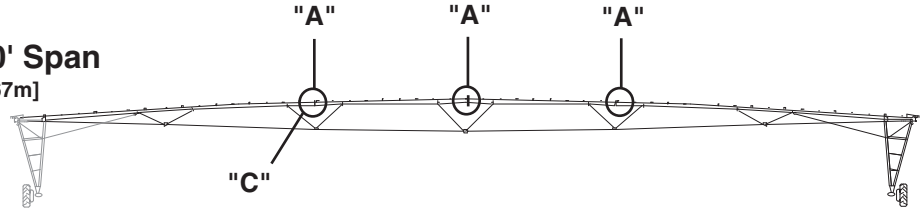
115' Span
[35.05m]



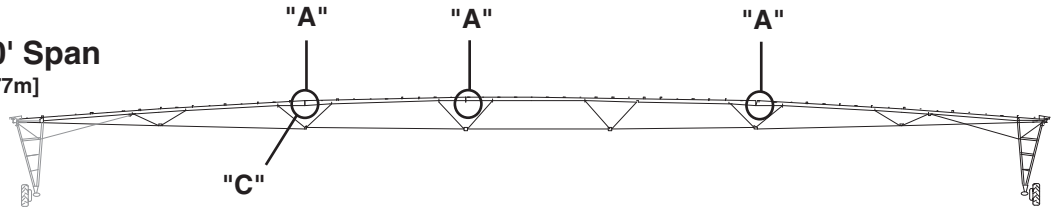
135' Span
[41.15m]



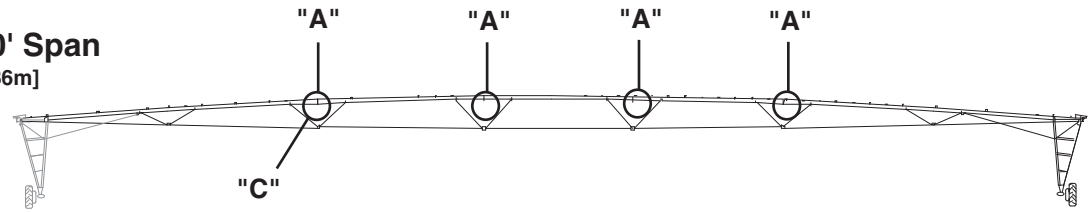
140' Span
[42.67m]



160' Span
[48.77m]



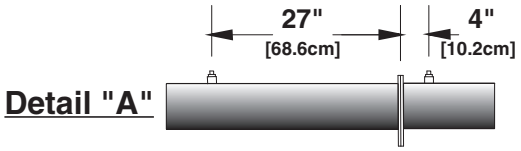
180' Span
[54.86m]

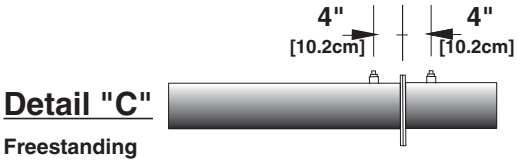


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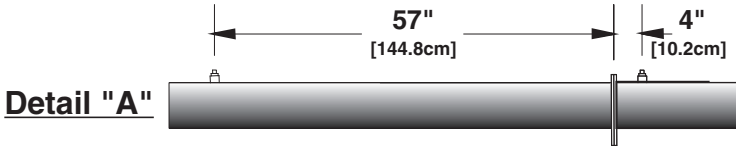
30" Spacing Details

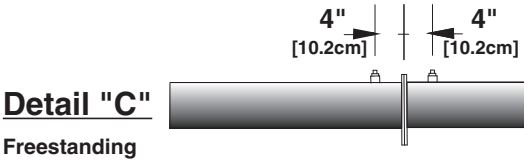




Freestanding Span Only

60" Spacing Details

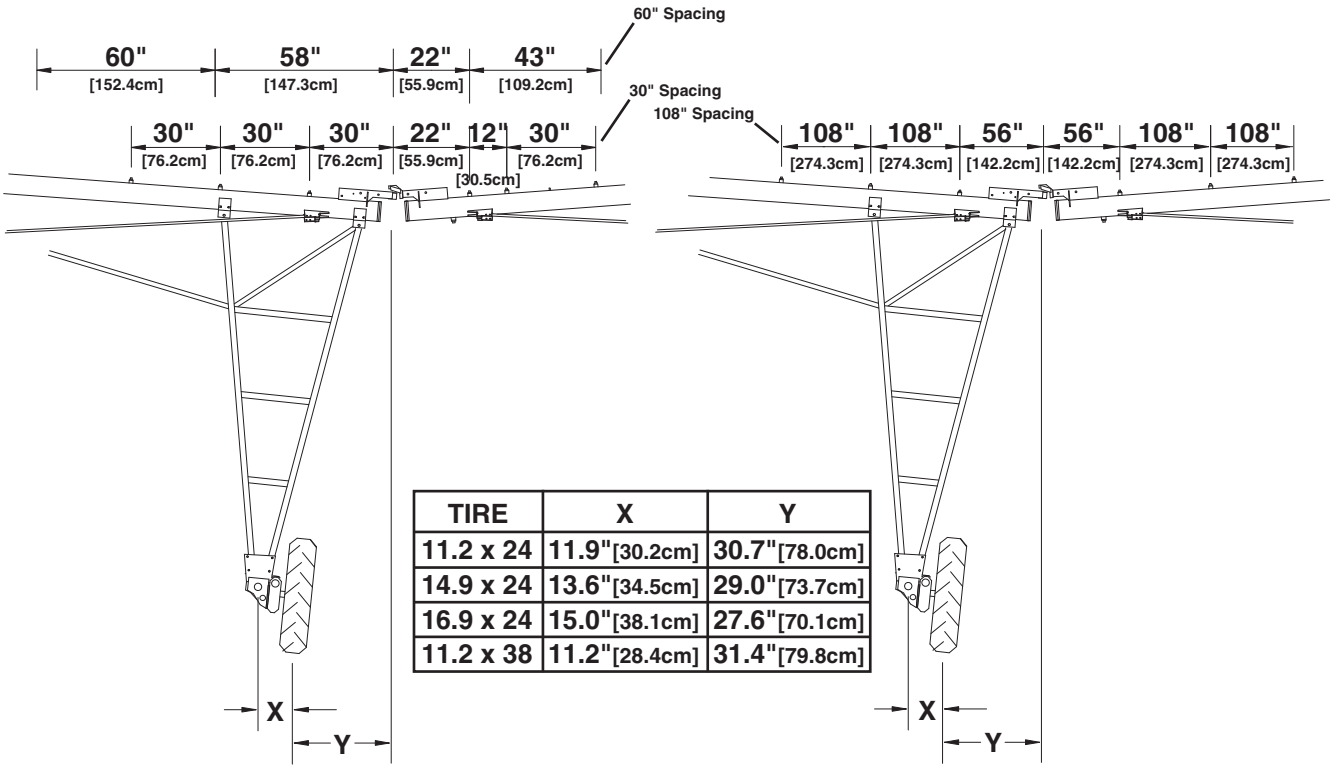




Freestanding Span Only

108" Spacing Detail

NOTE: Sprinkler outlets on all 108" spaced intermediate pipe are symmetrically spaced. Specific pipe orientation is not required for correct sprinkler installation.

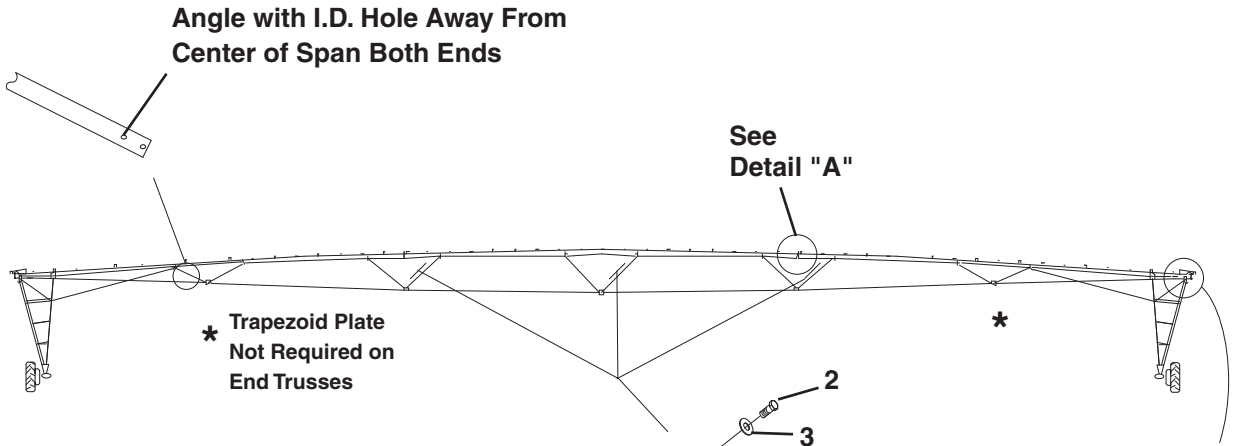


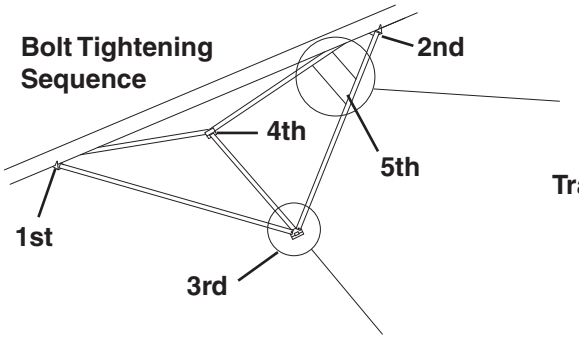
TIRE	X	Y
11.2 x 24	11.9"[30.2cm]	30.7"[78.0cm]
14.9 x 24	13.6"[34.5cm]	29.0"[73.7cm]
16.9 x 24	15.0"[38.1cm]	27.6"[70.1cm]
11.2 x 38	11.2"[28.4cm]	31.4"[79.8cm]

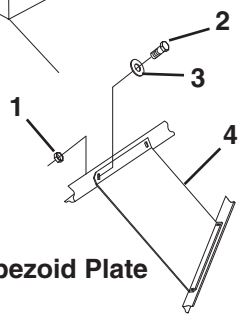
NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

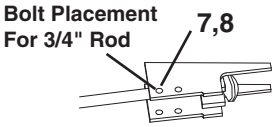
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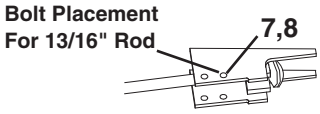




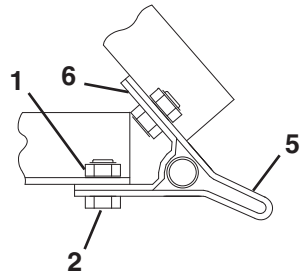


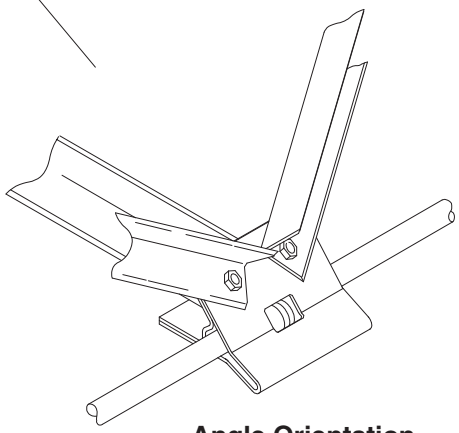


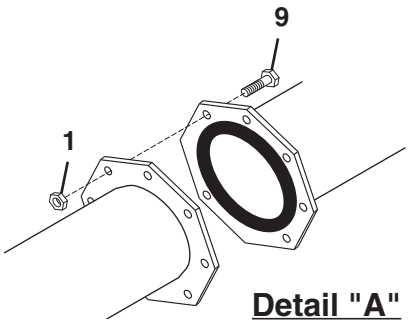
115', 135' Spans
[35.05m][41.15m]



140', 160' & 180' Spans
[42.67m][48.77m] [54.86m]





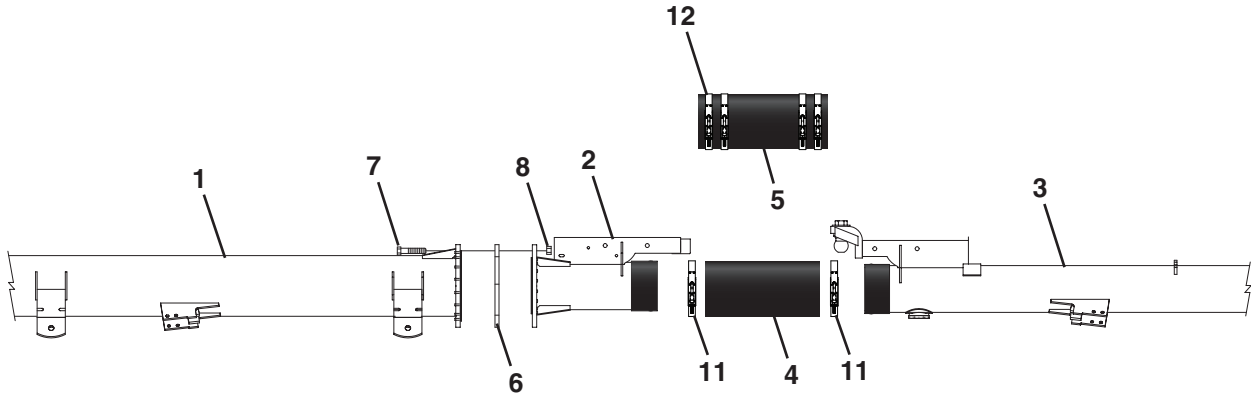


Detail "A"
(no Gasket req'd)

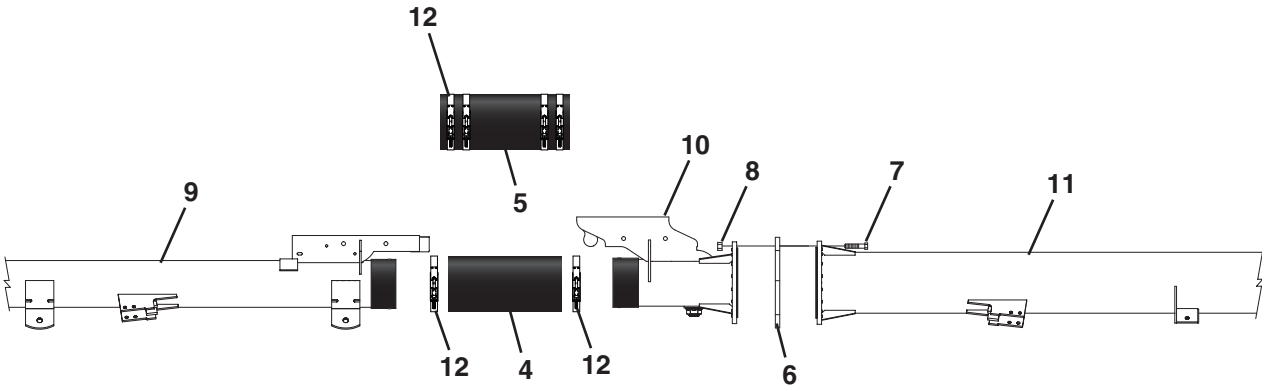
ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2" Cap Screw	0161024

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Forward Transition

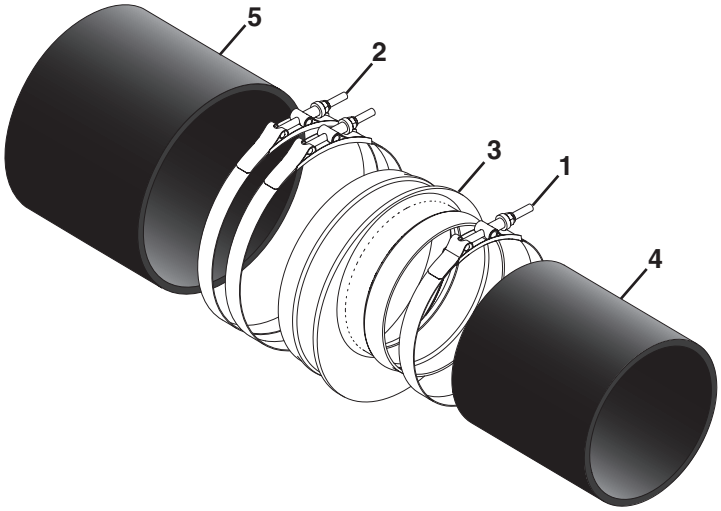


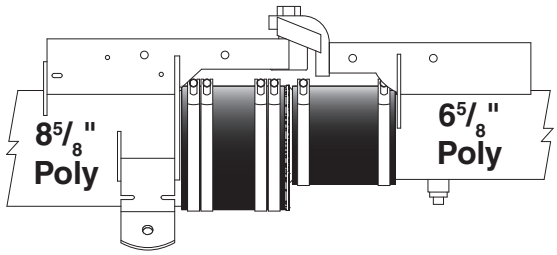
Reverse Transition

ITEM	DESCRIPTION	PART#
1	8-5/8" Transition Pipe	9362735
2	8-5/8" to 6-5/8" Transition Pipe	9362088
3	6-5/8" Swivel Pipe	9362683
4	Flex Hose, 7" I.D.	0995628
5	Flex Boot, 7" I.D. - Rough Terrain	0996625
6	8-5/8" to 6-5/8" Stainless Steel Adapter	9360946
7	1/2" x 2-1/2" Cap Screw	0161023
8	1/2" Lock Nut	0133005
9	6-5/8" Fixed Pipe	9362685
10	8-5/8" to 6-5/8" Reverse Transition Pipe	9362757
11	8-5/8" Pivot Pipe	9362729
12	7" Clamp	0995627

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ITEM	DESCRIPTION	PART #
1	Clamp - Flex Joint - 7" Hose	0995627
2	Clamp - Flex Joint - 8-5/8" Poly Pipe	0996085
3	8-5/8" to 6-5/8" Poly Short Transition Assm. - Stainless Steel	9364610
4	Flex Hose Joint - 7.00" I.D. x 8.00"	9364611
5	Flex Hose Joint - 9.00" I.D. x 8.00"	9364612

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MODEL 8120P

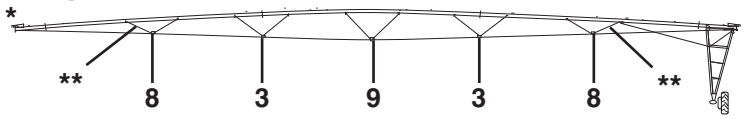
ADD & FREESTANDING PolySpans
6-5/8" PIPE
75.5"[191.8cm] & 113"[287.0cm]
COUPLER SPACING



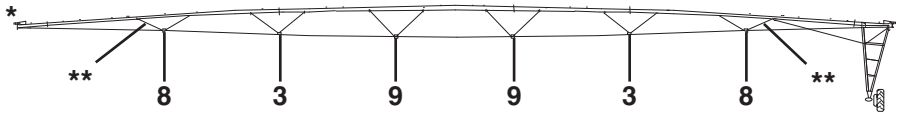
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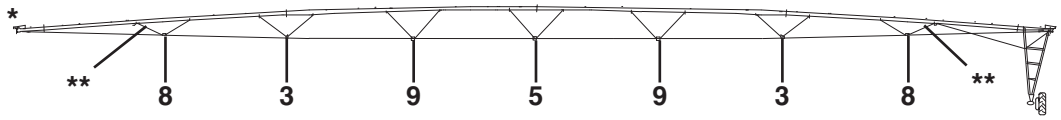
123.4' Span
[37.61m]



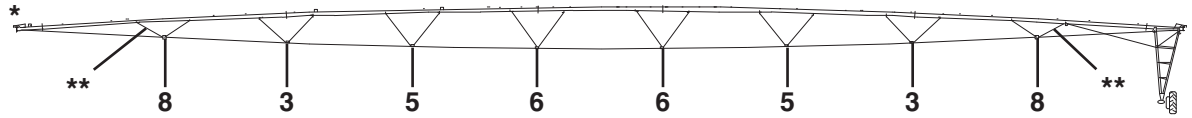
142.3' Span
[43.37m]



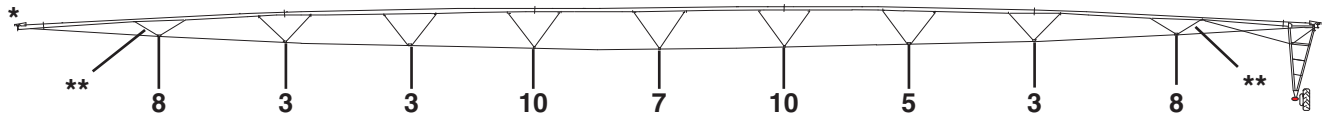
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]



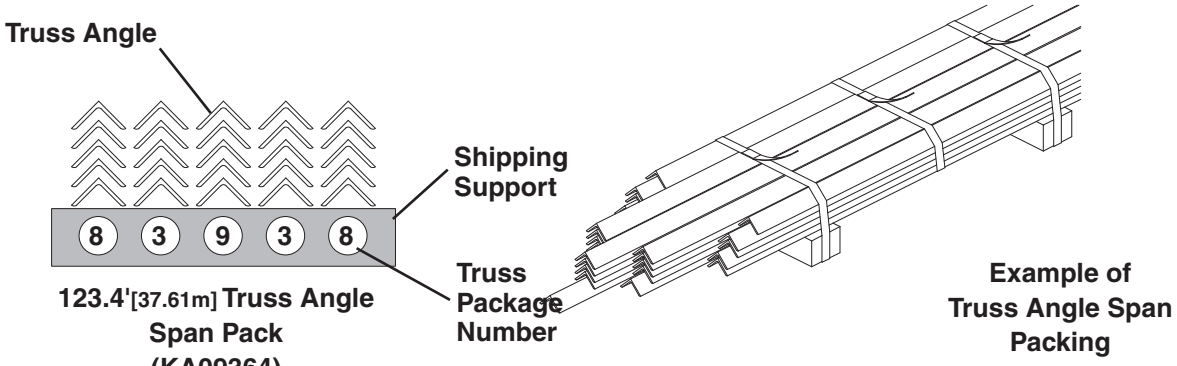
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

****NOTE: Location of longer diagonal w/I.D. hole.**

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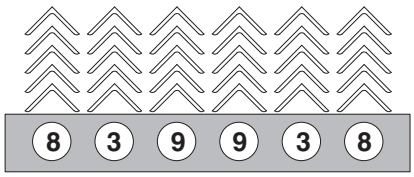
MODEL 8120P

Reference Assembly Detail Page for Exact Location of Truss Packages

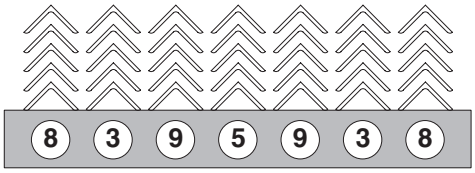


123.4'[37.61m] Truss Angle Span Pack (KA09364)

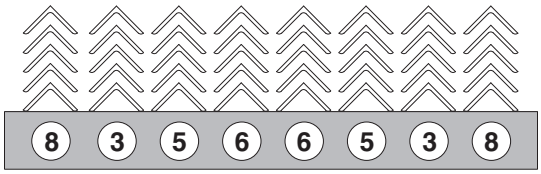
Example of Truss Angle Span Packing



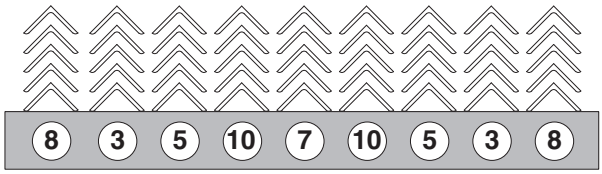
142.3'[43.37m] Truss Angle Span Pack (KA09283)



161.2'[49.12m] Truss Angle Span Pack (KA09285)



180'[54.88m] Truss Angle Span Pack (KA09288)



198.9'[60.63m] Truss Angle Span Pack (KA09290)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

TRUSS PKG #	DIAGONAL			SPREADER		
		Overall Length			Overall Length	
	Part #	Inches	cm	Part #	Inches	cm
3	9360050	82.78"	[210.3]	9360051	92.69"	[235.4]
5	9360054	97.25"	[247.0]	9360055	115.03"	[292.2]
6	9360056	102.56"	[260.5]	9360057	122.94"	[312.3]
8	9360735**	63.36"	[160.9]	9360736	56.00"	[142.2]
	9360734	60.67"	[154.1]	-	-	-
9	9360706	92.71"	[235.5]	9360707	108.16"	[274.7]
10	9360704	108.50"	[275.6]	9360705	131.63"	[334.3]

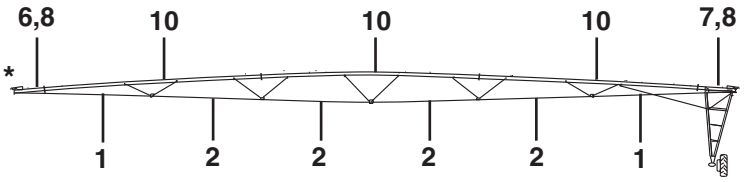
**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

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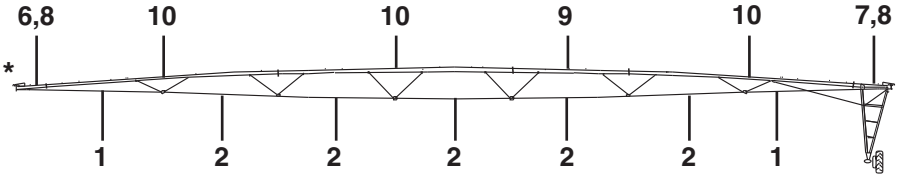
MODEL 8120P

PRIOR to February 2012

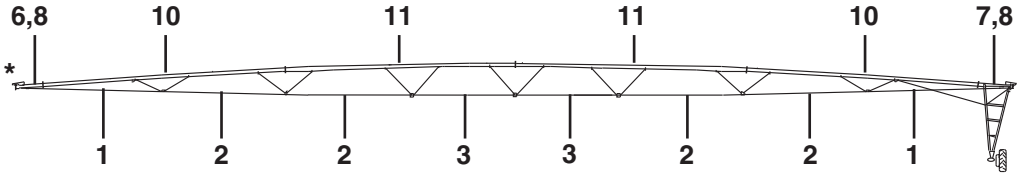
123.4' Span
[37.61m]



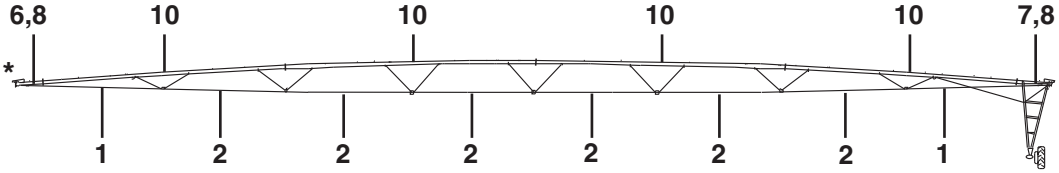
142.3' Span
[43.37m]



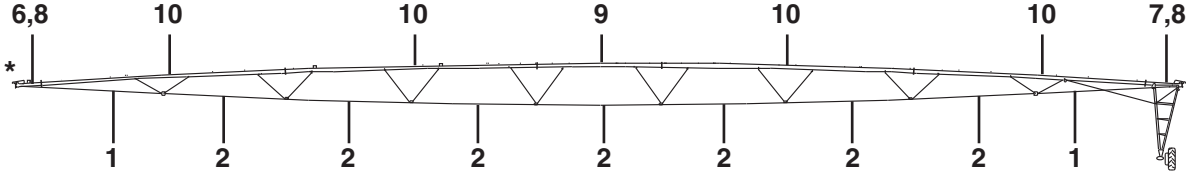
157.5' Span
[48.00m]



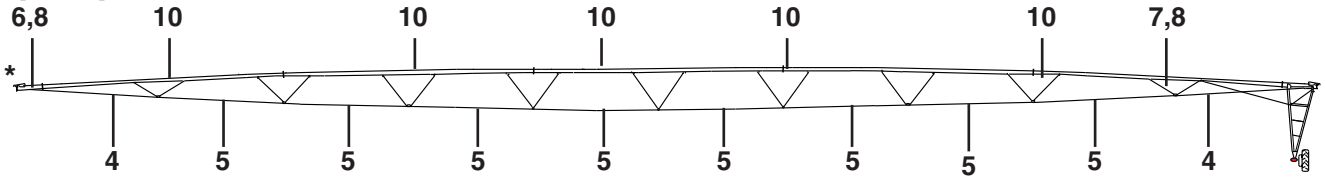
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]



***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

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MODEL 8120P

PRIOR to February 2012

22' - 2.84"[677.8cm] Head/Head
1 **Purple**

18' - 8.28"[567.7cm] Head/Head
2 **Gold**

16' - 10.56"[514.5cm]
3

22' - 2.84"[677.8cm]
4 **Brown**

18' - 8.28"[567.7cm]
5 **Flourescent Green**

5' - 0.50"[153.7cm]
6

4' - 9.28"[145.5cm]
7

5' - 0.50"[153.7cm]
8

18' - 10.41"[575.1cm]
9

37' - 9.00"[1150.6cm]
10

35' - 11.25"[1095.4cm]
11

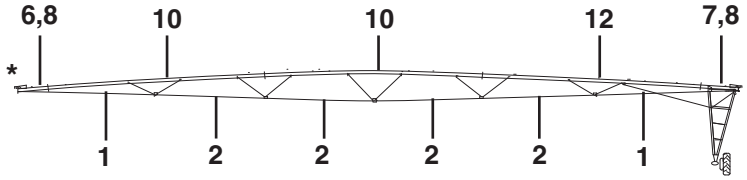
Item	Description	Part #	
1	3/4" Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360682	
3	3/4" Intermediate Truss Rod (16'-10.56")[514.5cm]	9362511	
4	13/16" Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
5	13/16" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719	
6	Swivel Stub Pipe (5'-0.50")[153.7cm]	9362671	
7	Last Stub Pipe (4'-9.47")[145.9cm]	9362673	
8	Fixed Stub Pipe (5'-0.50")[153.7cm]	9362675	
		75.5"[191.8cm]	113"[287.0cm]
9	19' Intermediate Pipe (18'-10.41")[575.1cm]	9362667	9362789
10	38' Intermediate Pipe (37'-9.00")[1150.6cm]	9362665	9362791
11	36' Intermediate Pipe (35'11.25")[1095.4cm]	9362713	N/A

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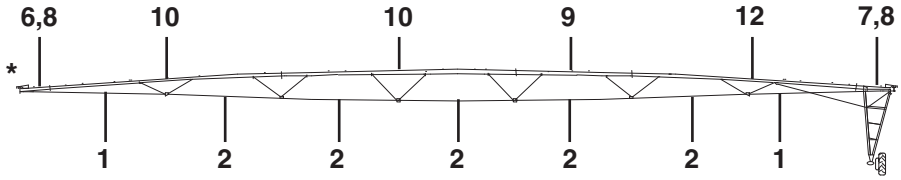
MODEL 8120P

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February 2012

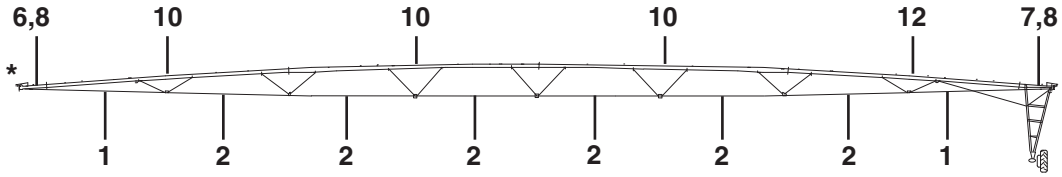
123.4' Span
[37.61m]



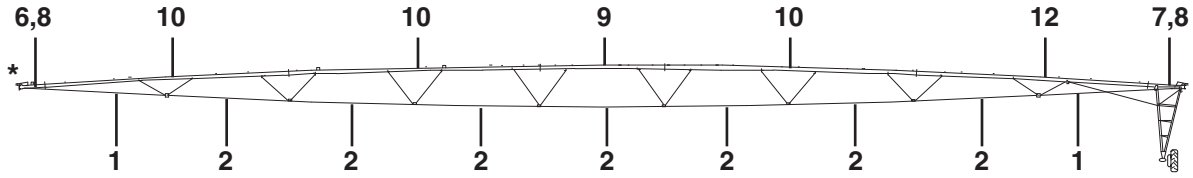
142.3' Span
[43.37m]



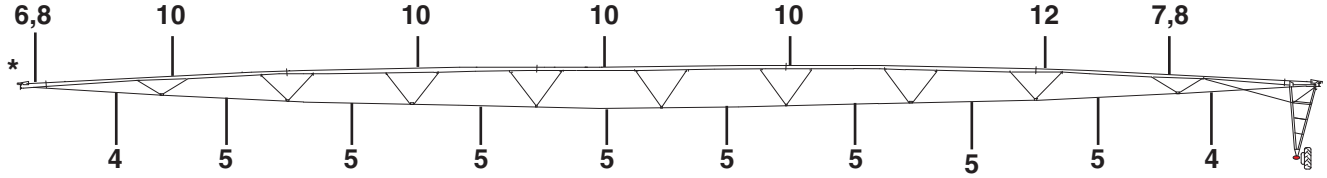
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]

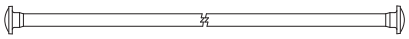


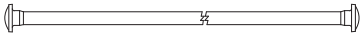
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

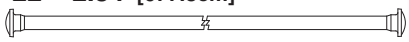
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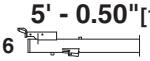
EFFECTIVE
February 2012

22' - 2.84"[677.8cm] Head/Head
1  **Purple**

18' - 8.28"[567.7cm] Head/Head
2  **Gold**

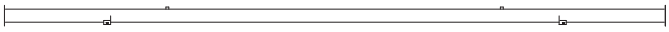
22' - 2.84"[677.8cm]
4  **Brown**

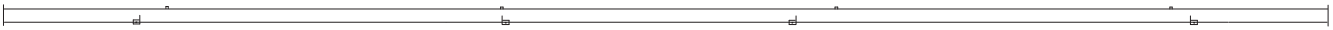
18' - 8.28"[567.7cm]
5  **Flourescent Green**

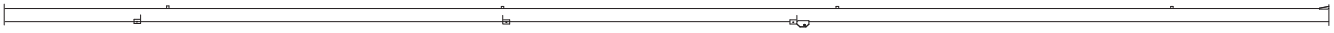
5' - 0.50"[153.7cm]
6 

4' - 9.28"[145.5cm]
7 

5' - 0.50"[153.7cm]
8 

18' - 10.41"[575.1cm]
9 

37' - 9.00"[1150.6cm]
10 

37' - 9.00"[1150.6cm]
12 

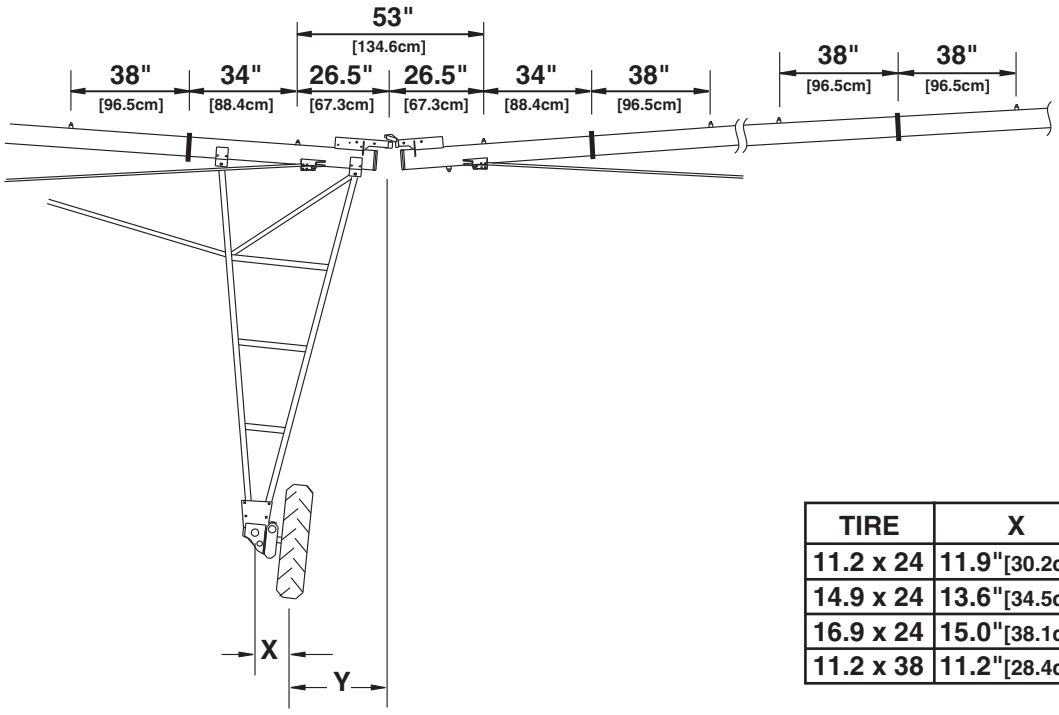
Item	Description	Part #	
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5	13/16" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719	
6	Swivel Stub Pipe (5'-0.50")[153.7cm]	9362671	
7	Last Stub Pipe (4'-9.47")[145.9cm]	9362673	
8	Fixed Stub Pipe (5'-0.50")[153.7cm]	9362675	
		75.5"[191.8cm]	113"[287.0cm]
9	19' Intermediate Pipe (18'-10.41")[575.1cm]	9362667	9362789
10	38' Intermediate Pipe (37'-9.00")[1150.6cm]	9362665	9362791
12	38' Tower Pipe (37'-9.00")[1150.6cm]	9363963	9363961

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Functional Area	Assembly / Part	Rev# 06-06
6-5/8" Pipe - 75.5" & 113" Spacing	Sprinkler Coupling Location Details	

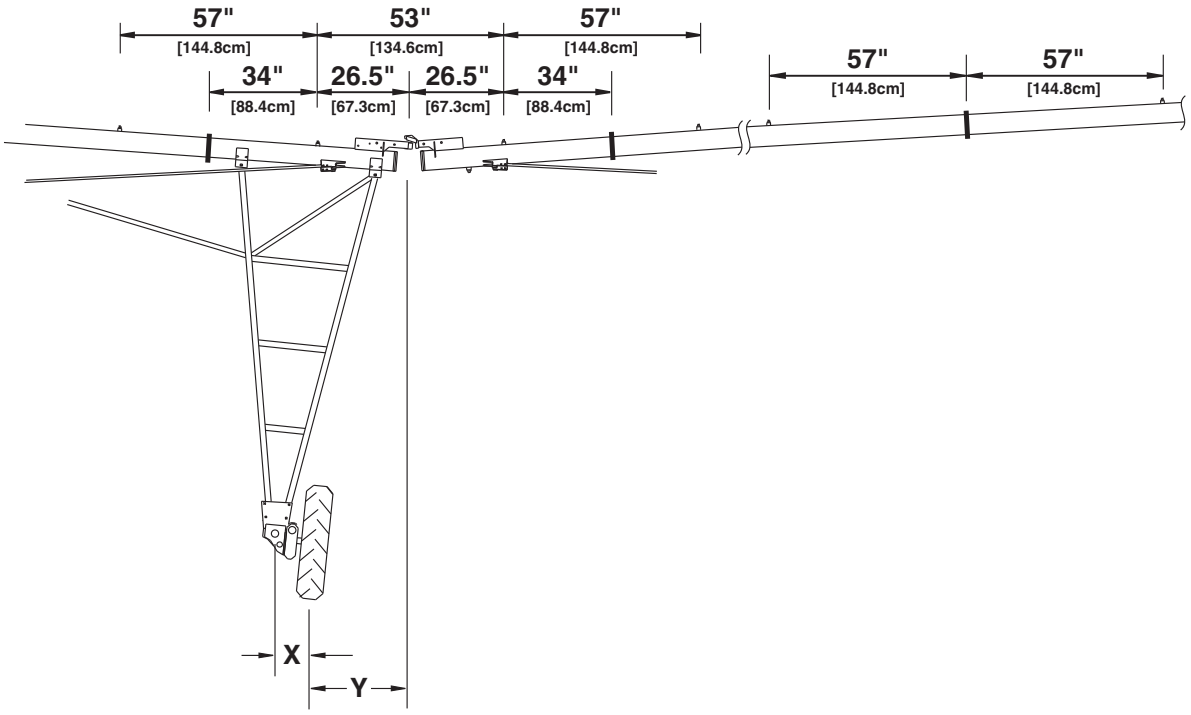
MODEL 8120P

75.5" Spacing Details



TIRE	X	Y
11.2 x 24	11.9"[30.2cm]	30.7"[78.0cm]
14.9 x 24	13.6"[34.5cm]	29.0"[73.7cm]
16.9 x 24	15.0"[38.1cm]	27.6"[70.1cm]
11.2 x 38	11.2"[28.4cm]	31.4"[79.8cm]

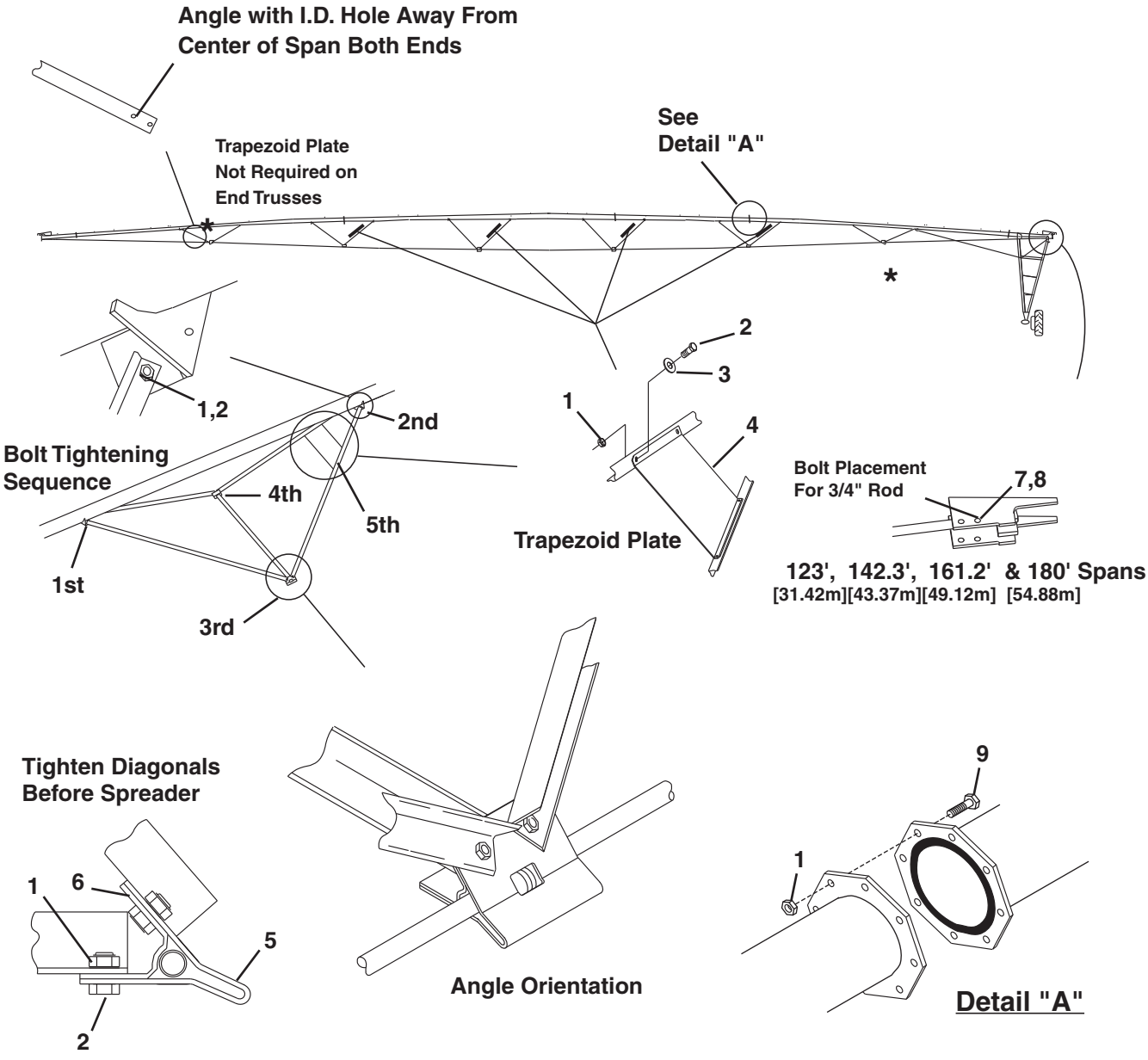
113" Spacing Details



NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

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ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2-1/2" Cap Screw	0161023

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MODEL 8120P

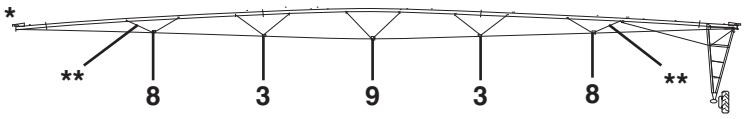
ADD & FREESTANDING PolySpans
8-5/8" PIPE
75.5"[191.8cm] & 113"[287.0cm]
COUPLER SPACING



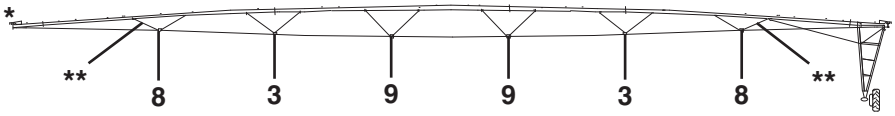
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MODEL 8120P

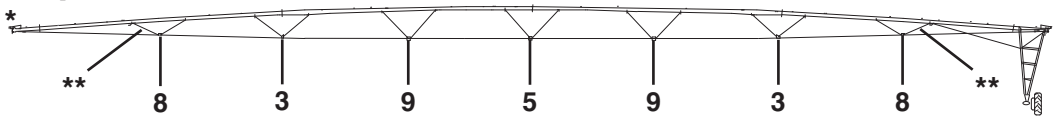
123.4' Span
[37.61m]



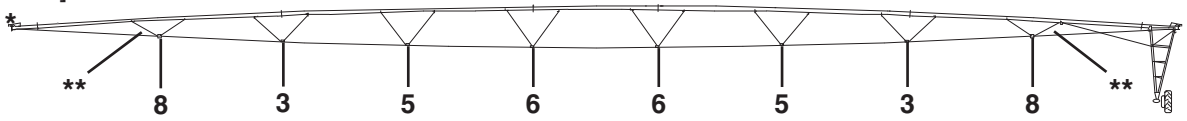
142.3' Span
[43.37m]



161.2' Span
[43.37m]



180' Span
[54.86m]



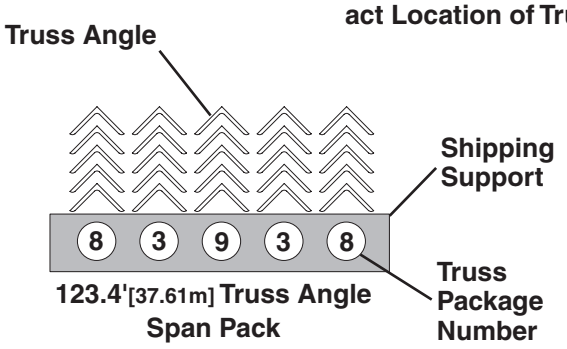
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

**** NOTE: Location of longer diagonal w/I.D. hole.**

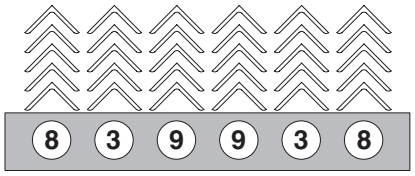
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MODEL 8120P

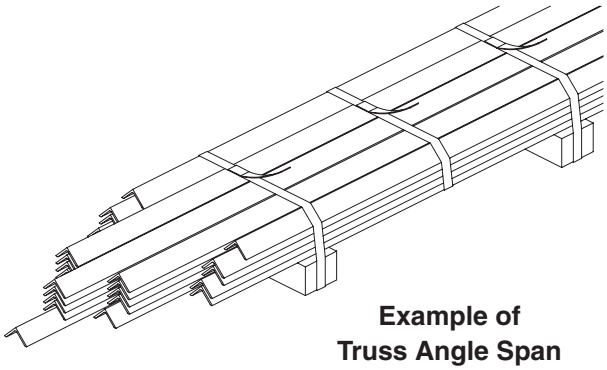
Reference Assembly Detail Page for Exact Location of Truss Packages



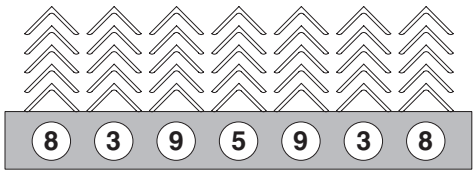
123.4'[37.61m] Truss Angle Span Pack (KA09364)



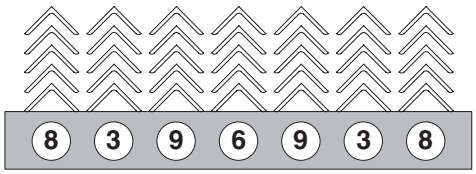
142.3'[43.37m] Truss Angle Span Pack (KA09283)



Example of Truss Angle Span Packing



161.2'[49.12m] Truss Angle Span Pack (KA09285)



180'[54.86m] Truss Angle Span Pack (KA09288)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

TRUSS PKG #	DIAGONAL			SPREADER		
		Overall Length			Overall Length	
	Part #	Inches	cm	Part #	Inches	cm
3	9360050	82.78"	[210.3cm]	9360051	92.69"	[235.4cm]
5	9360054	97.25"	[247.0cm]	9360055	115.03"	[292.2cm]
6	9360056	102.56"	[260.5cm]	9360057	122.94"	[2312.3cm]
8	9360735**	63.36"	[160.9cm]	9360736	56.00"	[142.2cm]
	9360734	60.67"	[154.1cm]	-	-	-
9	9360706	92.71"	[235.5cm]	9360707	108.16"	[274.7cm]

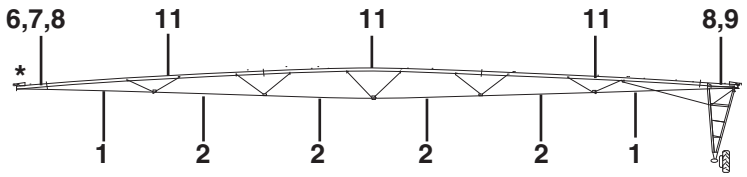
** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.

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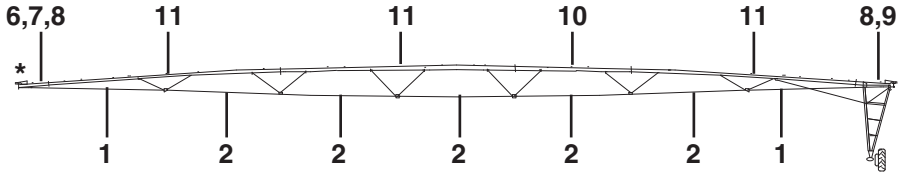
MODEL 8120P

PRIOR to February 2012

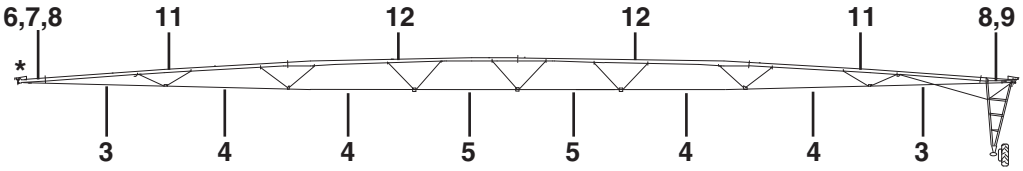
123.4' Span
[37.61m]



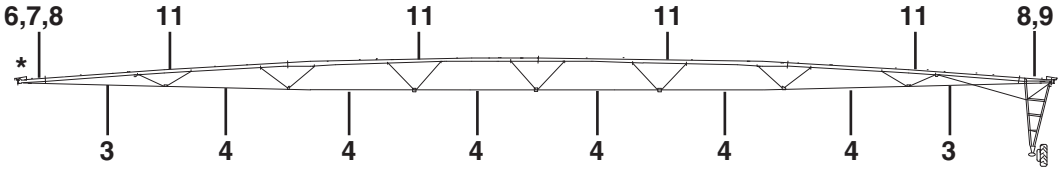
142.3' Span
[43.37m]



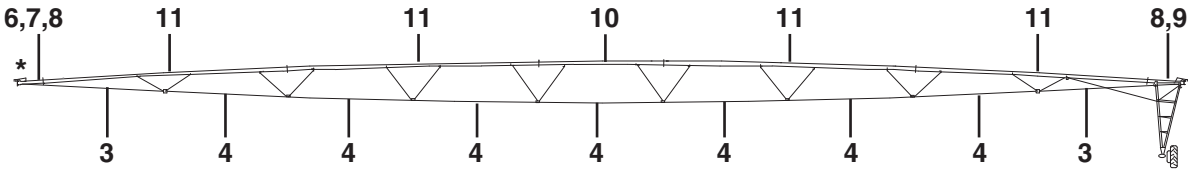
157.5' Span
[48.00m]



161.2' Span
[49.12m]



180' Span
[54.86m]



***NOTE:** **Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

Reverse Transitions change from 8-5/8" to 6-5/8" dia. at the Swivel end of the Span when the transition is between the Cart and the Freestanding Span.

In all other cases the transition occurs at the fixed end of the Span.

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MODEL 8120P

PRIOR to February 2012

1 **22' - 2.84"[677.8cm] Head/Head** **Purple**

2 **18' - 8.28"[569.7cm] Head/Head** **Gold**

3 **22' - 2.84"[677.8cm] Head/Head** **Brown**

4 **18' - 8.28"[569.7cm] Head/Head** **Flourescent Green**

5 **18' - 8.28"[569.7cm] Head/Head**

6 **5' - 0.50"[153.7cm] ***

7 **5' - 0.50"[153.7cm]**

8 **5' - 0.50"[153.7cm] ***

9 **5' - 0.50"[153.7cm]**

10 **4' - 9.72"[146.6cm]**

11 **18' - 10.41"[575.1cm]**

12 **37' - 9.00"[1150.6cm]**

13 **35' - 10.50"[1095.4cm]**

Item	Description	Part #	
1	3/4" Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682	
3	13/16" Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
4	13/16" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719	
5	13/16" Intermediate Truss Rod (16'-10.56")[514.5cm]	9362510	
*6	Reverse Transition Stub Pipe (5'-0.50")[153.7cm]	9362759	
7	Swivel Stub Pipe (5'-0.50")[153.7cm]	9362717	
*8	Transition Stub Pipe (5'-0.50")[153.7cm]	9362753	
9	Fixed Stub Pipe (5'-0.50")[153.7cm]	9362719	
10	Cart Stub Pipe (4'-9.72")[146.6cm]	9362737	
		75.5"[191.8cm]	113"[191.8cm]
11	19' Intermediate Pipe (18'-10.41")[575.1cm]	9362723	9362793
12	38' Intermediate Pipe (37'-9")[1150.6cm]	9362721	9362795
13	36' Intermediate Pipe (35-10.50")[1095.4cm]	9362751	N/A

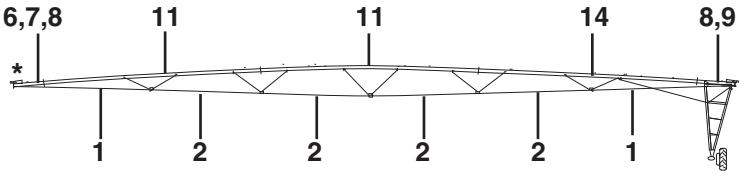
***NOTE: Transition Stubs consist of 6-5/8" pipe with 8-5/8" Flange.**

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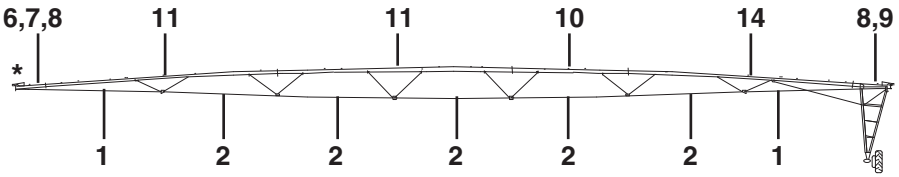
MODEL 8120P

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February 2012

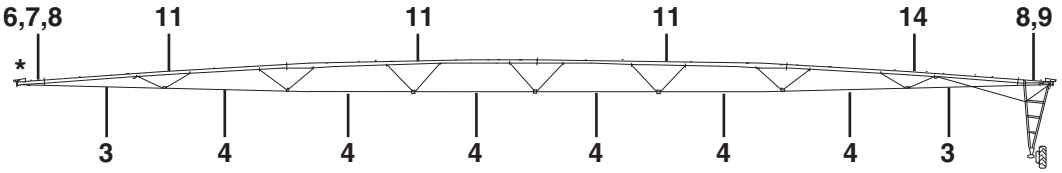
123.4' Span
[37.61m]



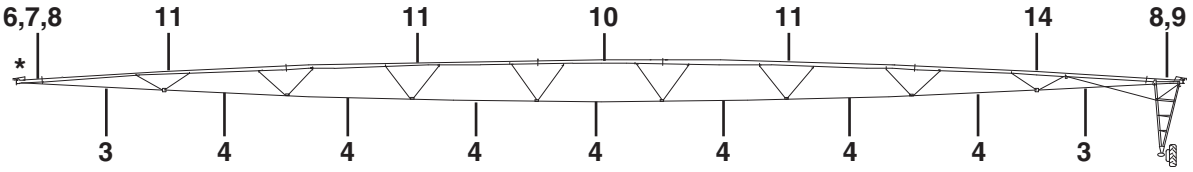
142.3' Span
[43.37m]



161.2' Span
[49.12m]



180' Span
[54.86m]



***NOTE:** **Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

Reverse Transitions change from 8-5/8" to 6-5/8" dia. at the Swivel end of the Span when the transition is between the Cart and the Freestanding Span.

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MODEL 8120P

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February 2012

1 **22' - 2.84"[677.8cm] Head/Head Purple**

2 **18' - 8.28"[569.7cm] Head/Head Gold**

3 **22' - 2.84"[677.8cm] Head/Head Brown**

4 **18' - 8.28"[569.7cm] Head/Head Flourescent Green**

6 **5' - 0.50"[153.7cm] ***

7 **5' - 0.50"[153.7cm]**

8 **5' - 0.50"[153.7cm] ***

9 **5' - 0.50"[153.7cm]**

10 **4' - 9.72"[146.6cm]**

11 **18' - 10.41"[575.1cm]**

14 **37' - 9.00"[1150.6cm]**

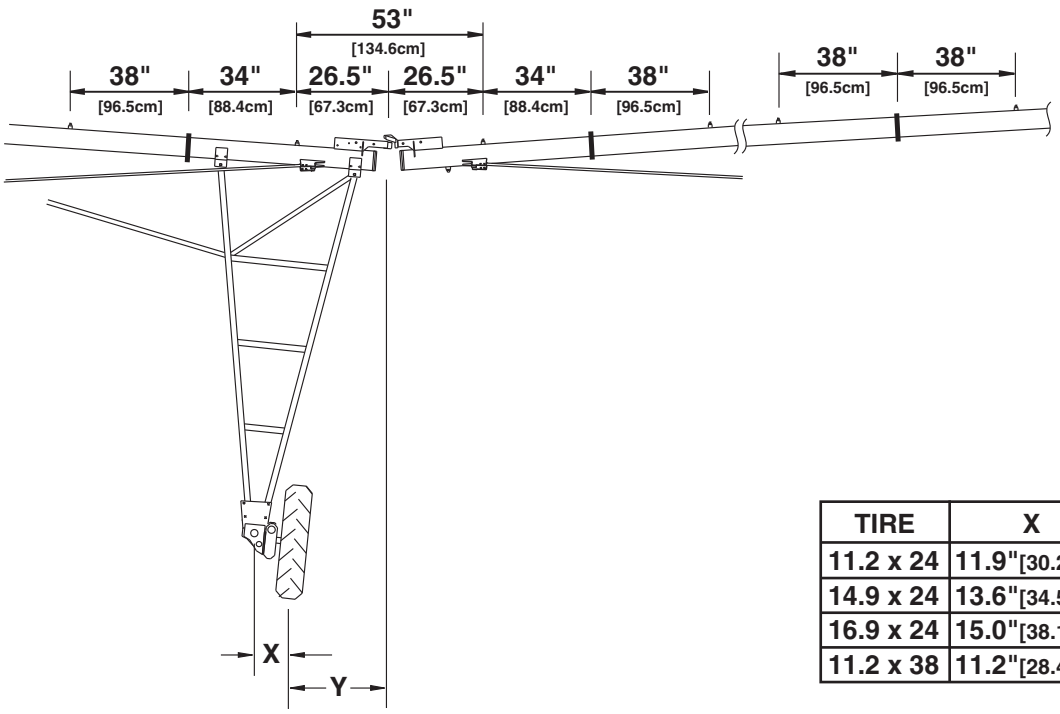
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4	13/16" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719	
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7	Swivel Stub Pipe (5'-0.50")[153.7cm]	9362717	
*8	Transition Stub Pipe (5'-0.50")[153.7cm]	9362753	
9	Fixed Stub Pipe (5'-0.50")[153.7cm]	9362719	
10	Cart Stub Pipe (4'-9.72")[146.6cm]	9362737	
		75.5"[191.8cm]	113"[191.8cm]
11	19' Intermediate Pipe (18'-10.41")[575.1cm]	9362723	9362793
14	38' Tower Pipe (37'-9")[1150.6cm]	9363969	9363967

*** NOTE: Transition Stubs consist of 6-5/8" pipe with 8-5/8" Flange.**
**** NOTE: Cart Stub Pipe used ONLY on Rainger Cart.**

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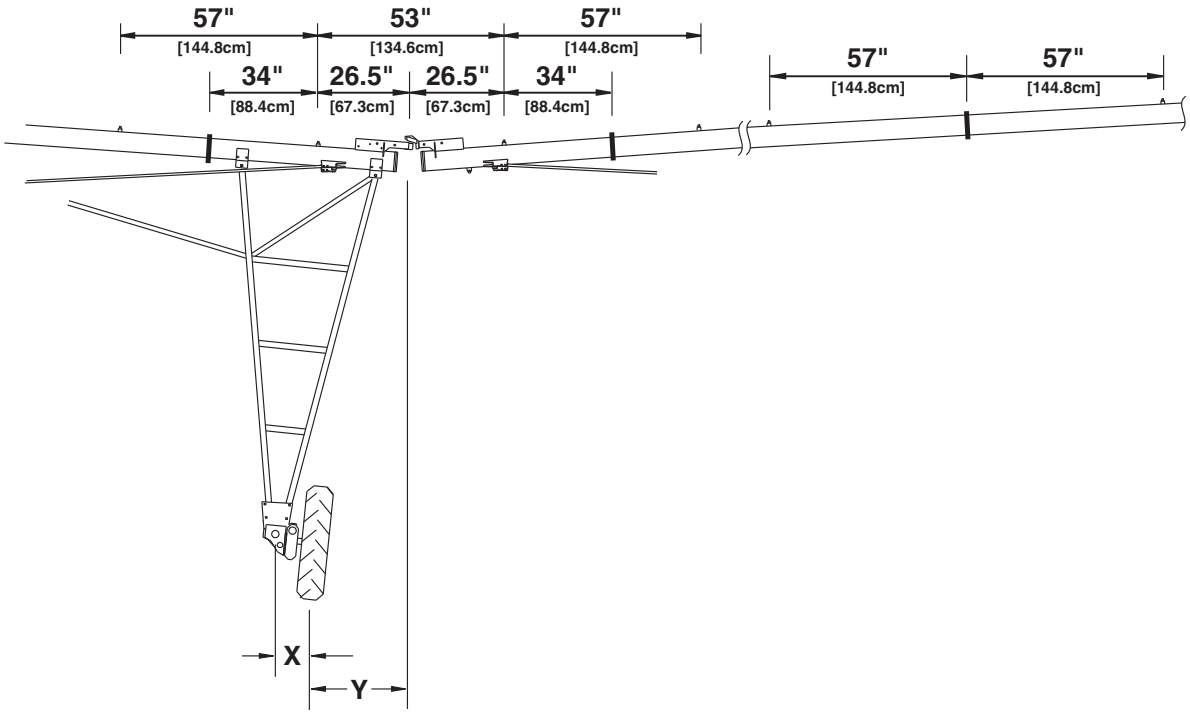
MODEL 8120P

75.5" Spacing Details



TIRE	X	Y
11.2 x 24	11.9"[30.2cm]	30.7"[78.0cm]
14.9 x 24	13.6"[34.5cm]	29.0"[73.7cm]
16.9 x 24	15.0"[38.1cm]	27.6"[70.1cm]
11.2 x 38	11.2"[28.4cm]	31.4"[79.8cm]

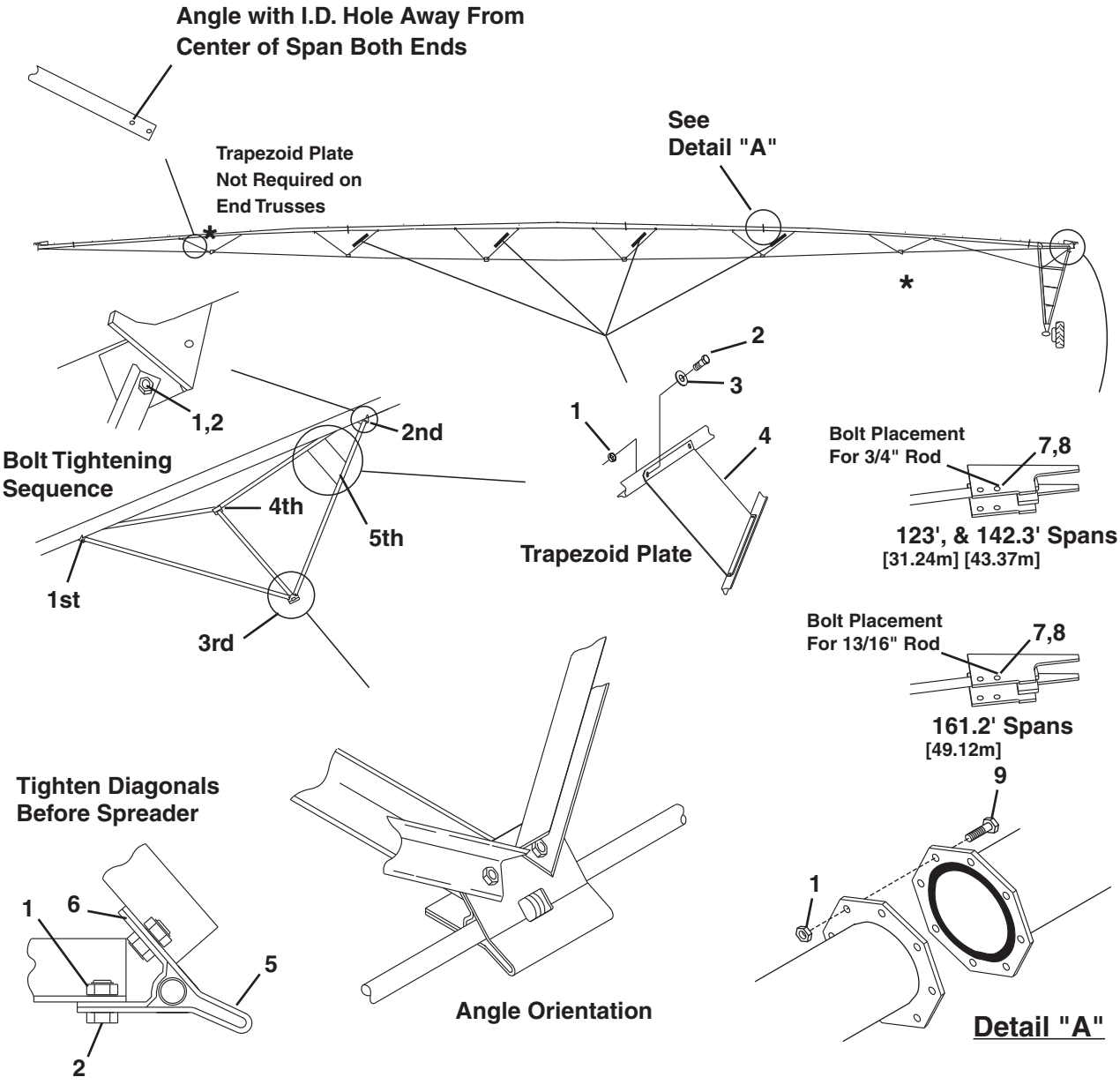
113" Spacing Details



NOTE: The "Y" dimension can vary ±3.0"[76.2cm] depending on span length and crown.

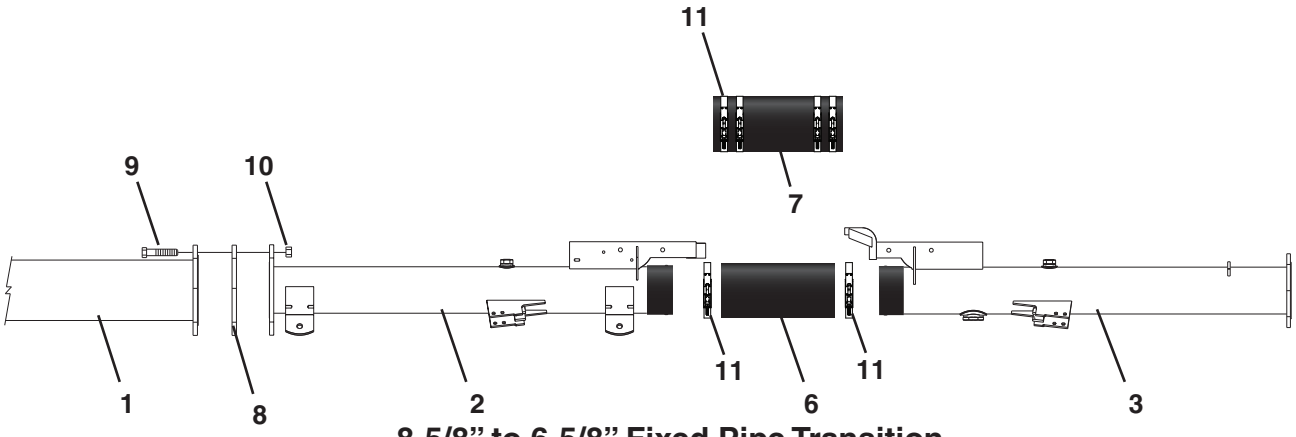
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MODEL 8120P

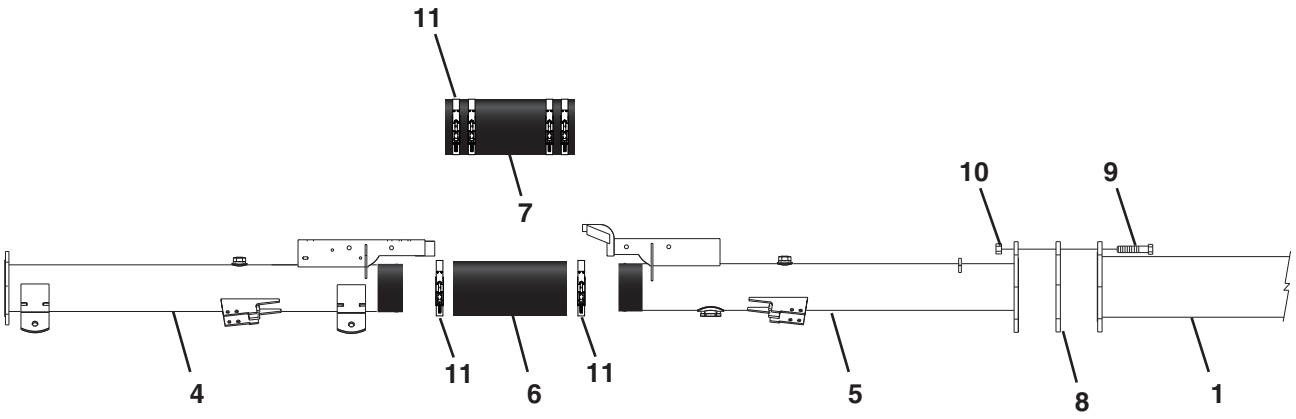


ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2-1/2" Cap Screw	0161023

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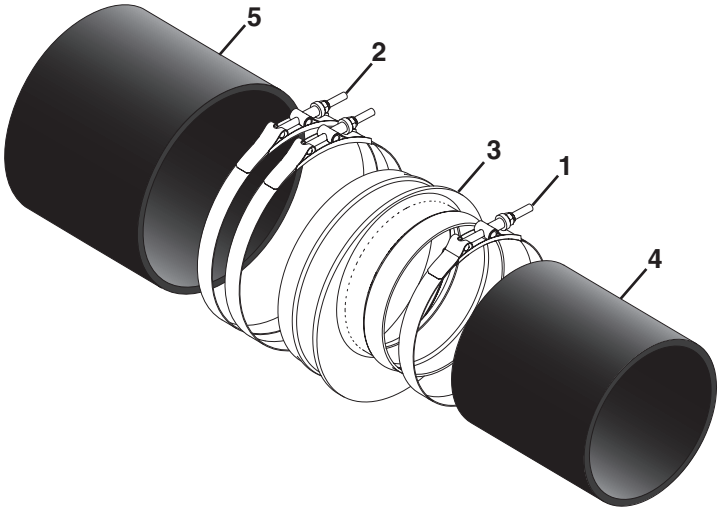
8-5/8” to 6-5/8” Fixed Pipe Transition

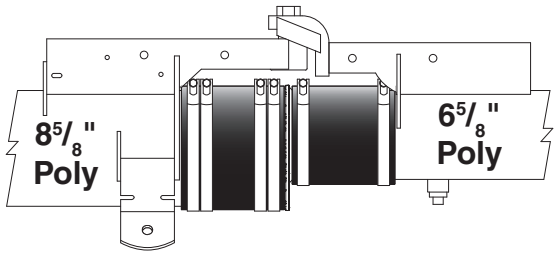


8-5/8” to 6-5/8” Swivel Pipe Transition

ITEM	DESCRIPTION	PART#
1	8-5/8” Intermediate Pipe	9362721
2	8-5/8” to 6-5/8” Fixed Transition Pipe	9362753
3	6-5/8” Swivel Stub Pipe	9362671
4	6-5/8” Fixed Stub Pipe	9362675
5	8-5/8” to 6-5/8” Swivel Transition Pipe	9362759
6	Flex Hose, 7” I.D.	0995628
7	Flex Boot, 7” I.D. - Rough Terrain	0996625
8	8-5/8” to 6-5/8” Stainless Steel Adapter	9360946
9	1/2” x 2-1/2” Cap Screw	0161023
10	1/2” Lock Nut	0133005
11	7" Clamp	0995627

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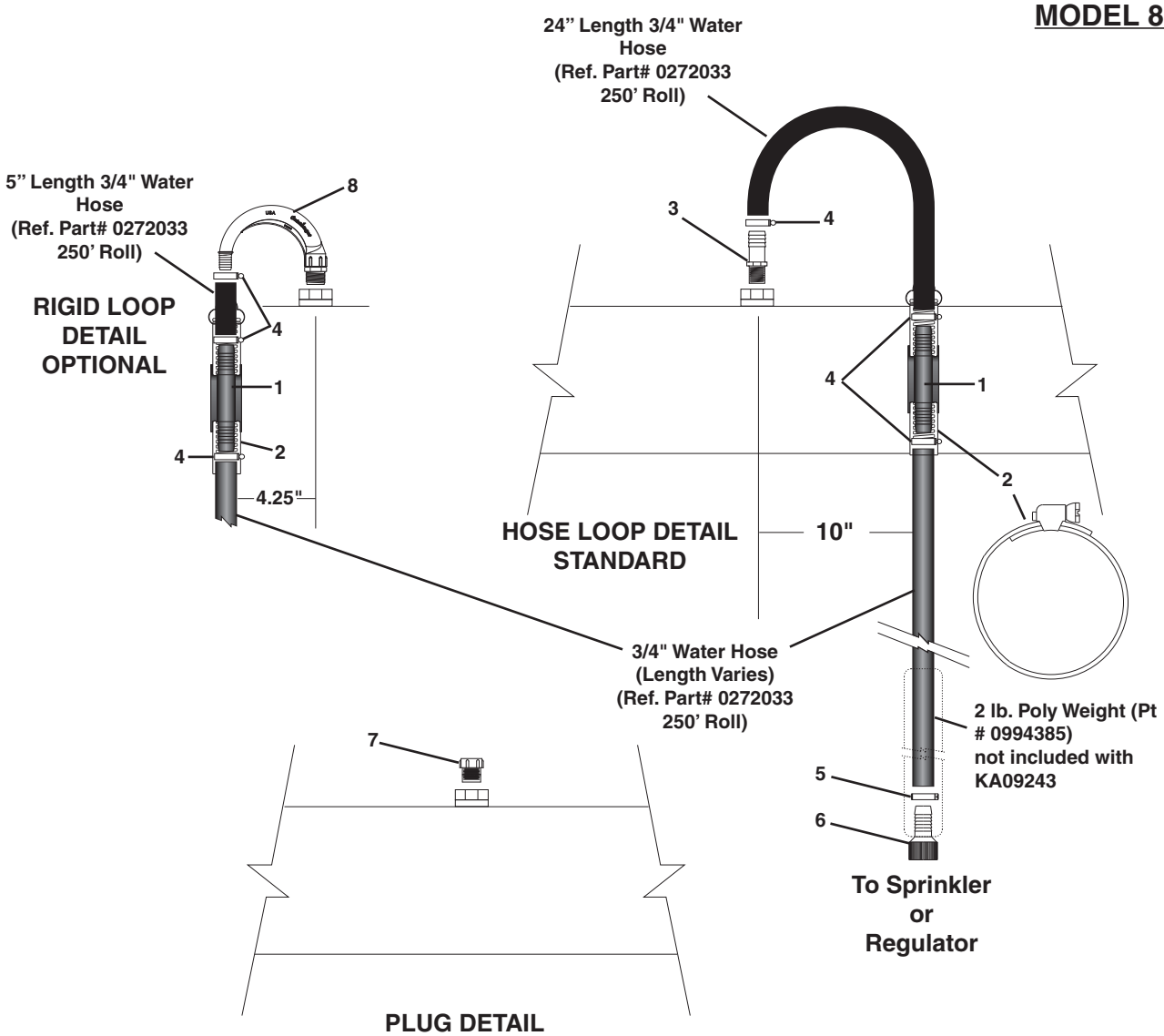




ITEM	DESCRIPTION	PART #
1	Clamp - Flex Joint - 7" Hose	0995627
2	Clamp - Flex Joint - 8-5/8" Poly Pipe	0996085
3	8-5/8" to 6-5/8" Poly Short Transition Assm. - Stainless Steel	9364610
4	Flex Hose Joint - 7.00" I.D. x 8.00"	9364611
5	Flex Hose Joint - 9.00" I.D. x 8.00"	9364612

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MODEL 8120P



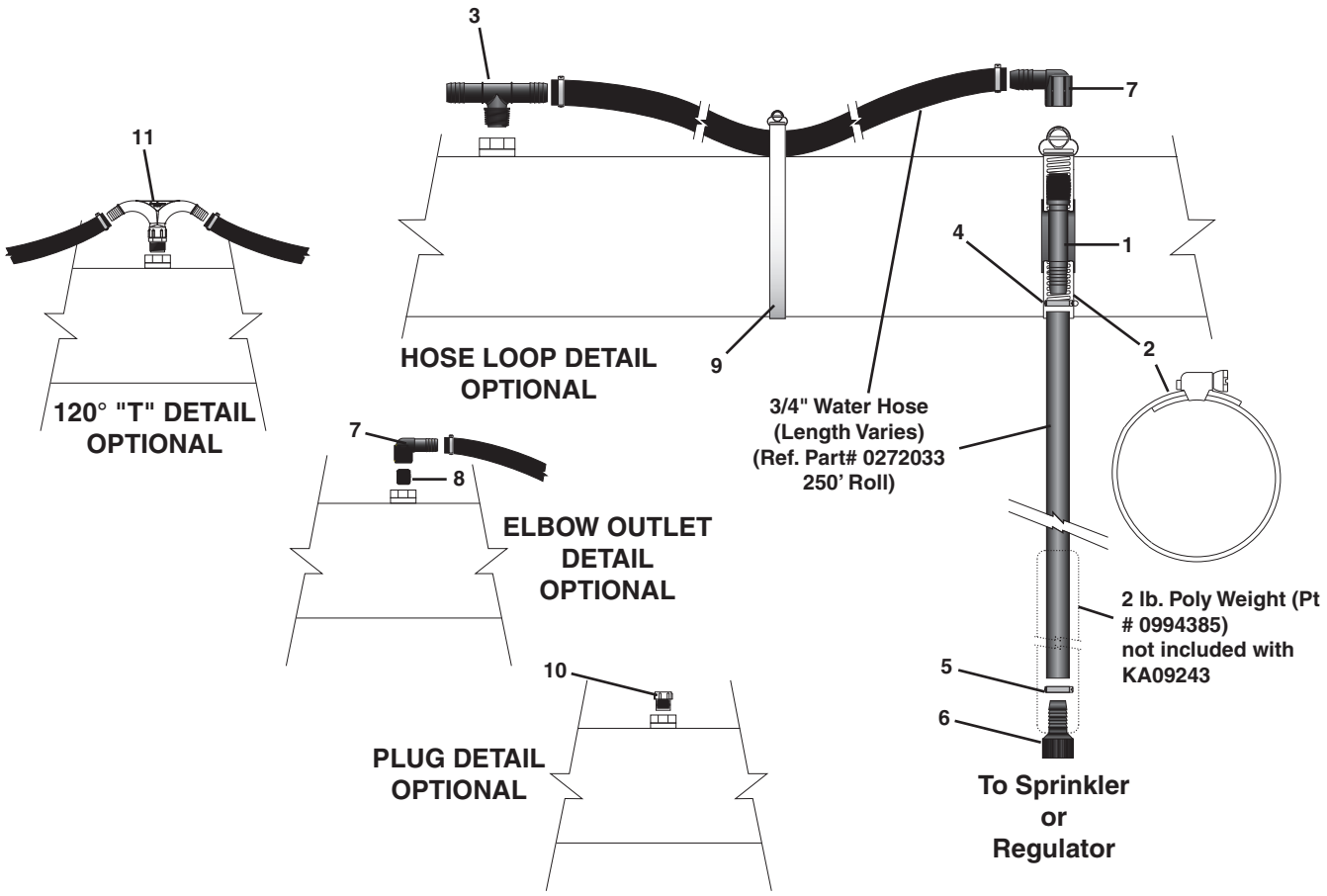
ITEM	DESCRIPTION	PART#
1	3/4" Adj. Hose Barb Connection (For 6-5/8" & 8-5/8")	9360365
2	6-5/8" Screw Clamp	0271087*
	8-5/8" Screw Clamp	0271105**
3	3/4" NPT x 3/4" Insert Fitting	0271077
4	1-1/4" Hose Drop Clamp	0271084
5	1-1/16" Crimp Hose Clamp	0271080
6	3/4" NPT Female x 3/4" Hose Barb	0271082
7	3/4" NPT Pipe Plug - PVC	0246193
8	3/4" MNPT x 3/4" Hose Barb U-Pipe	0246222

*Sprinkler Hardware Kit 6-5/8" Items 1-4 ..... KA09243
**Sprinkler Hardware Kit 8-5/8" Items 1-4 ..... KA09367

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Functional Area	Assembly / Part	Rev# 06-06
8-5/8" Pipe - 75.5" & 113" Spacing	Optional Sprinkler Drop Detail	

MODEL 8120P



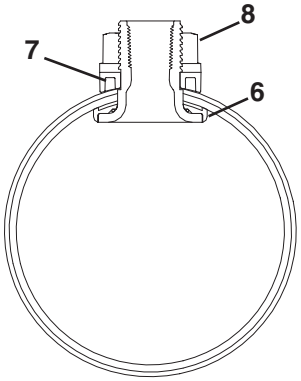
ITEM	DESCRIPTION	PART#
1	3/4" Adj. Insert Connection (For 6-5/8" & 8-5/8")	9360956
2	6-5/8" Screw Clamp	0271087*
	8-5/8" Screw Clamp	0271105**
3	3/4" x 3/4" Insert x 3/4" NPT Tee Fitting	0242061
4	1-1/4" Hose Drop Clamp	0271084
5	1-1/16" Crimp Hose Clamp	0271080
6	3/4" NPT Female x 3/4" Hose Barb	0271082
7	3/4" FNPT x 3/4" PVC Insert - 90°	0271104
8	3/4" NPT x 1-1/2" PVC Nipple	0211103
9	Hydraulic Tube Clamp	0271021
10	3/4" NPT Pipe Plug - PVC	0246193
11	3/4" Double Barb Gooseneck	0274021

*90° Elbow 6-5/8" Hardware Kit	KA09368
**90° Elbow 8-5/8" Hardware Kit	KA09366

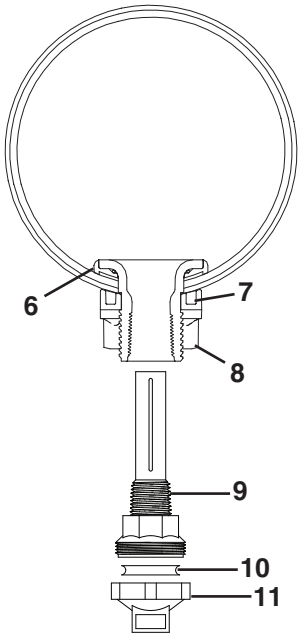
Copyright © 2019 Valmont Industries, Inc.

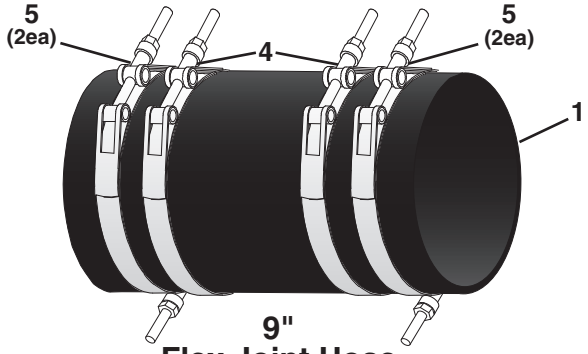
MODEL 8120P

Span Outlets

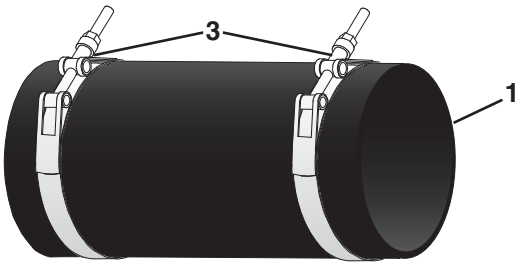


Span Drains

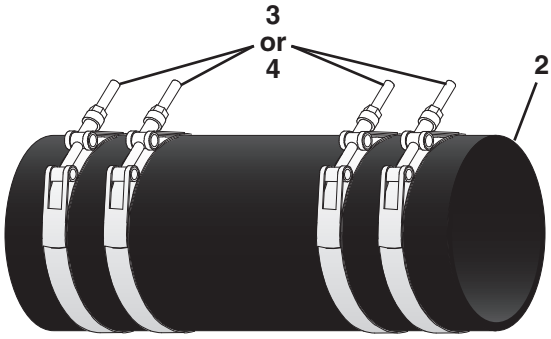




9"
Flex Joint Hose



7"
Flex Joint Hose



ITEM	DESCRIPTION	PART #
1	7" Flex Joint Hose	0995628
	9" Flex Joint Hose	0996027
2	7" Flex Boot - Rough Terrain	0996625
	9" Flex Boot - Rough Terrain	0996669
3	7" Flex Joint Clamp	0995627
4	9" Flex Joint Clamp	0996085
5	4-1/2" Flex Joint Clamp	0270001
6	3/4" Compression Assembly	0246217
7	3/4" Support Washer	0246214
8	3/4" Compression Nut	0246213
9	3/4" Upper Drain Body	0246227
10	Drain Seal	0232568
11	Lower Drain Body	0232004

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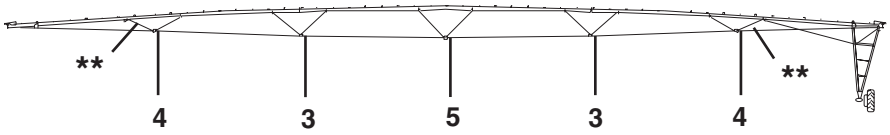
ADD & FREESTANDING PolySpans
EXPORT 6-5/8" PIPE
90"[228.6cm]
COUPLER SPACING



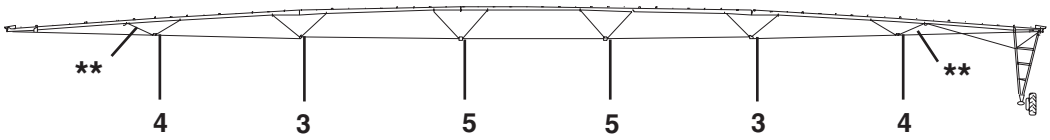
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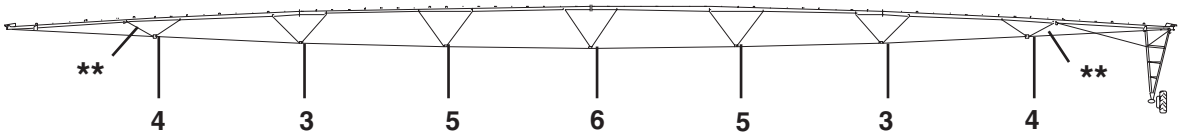
135' Span



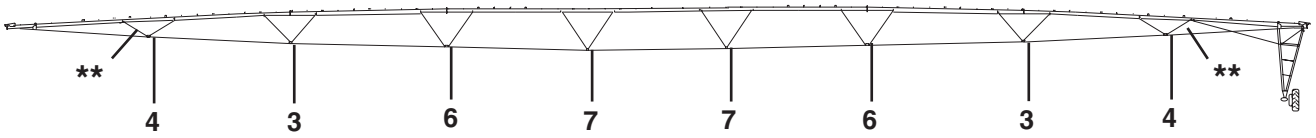
157.5' Span



180' Span



202.5' Span

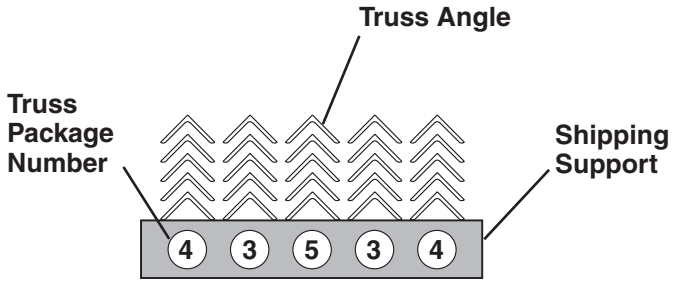


** **NOTE: This is the location of the longer diagonal with the I.D. hole.**

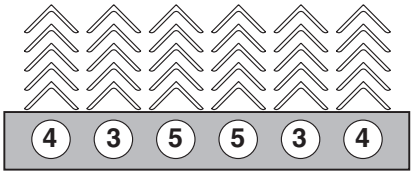
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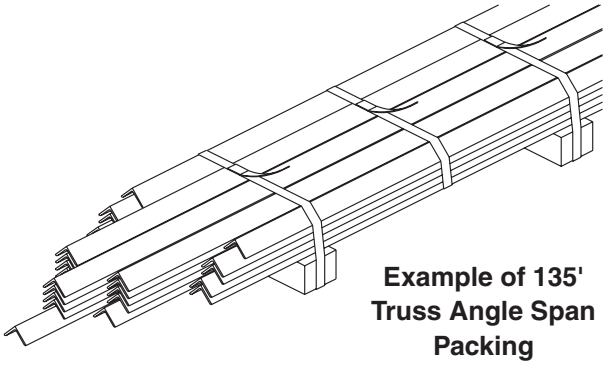
Reference Assembly Detail Page for Exact Location of Truss Packages



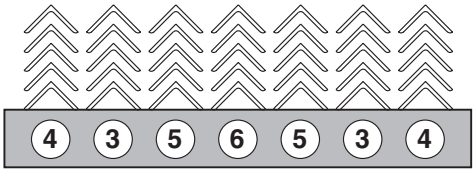
135' Truss Angle Span Pack (KA09047)



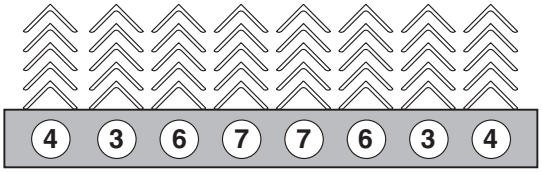
157.5' Truss Angle Span Pack (KA09050)



Example of 135' Truss Angle Span Packing



180' Truss Angle Span Pack (KA09025)



202.5' Truss Angle Span Pack (KA09026)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

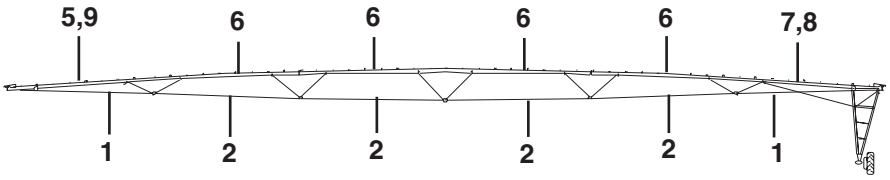
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"
7	9360058	112.09"	9360059	136.84"

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

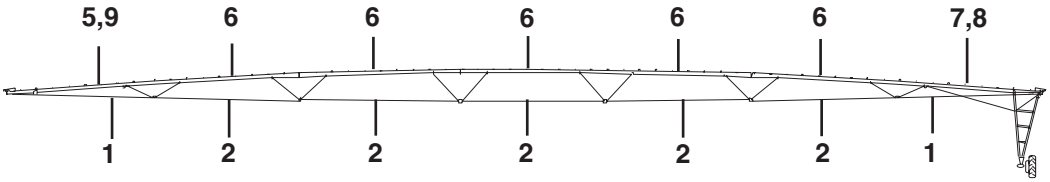
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MODEL 8000P

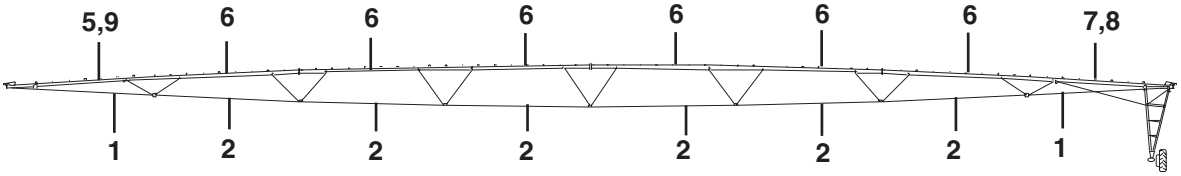
135' Span



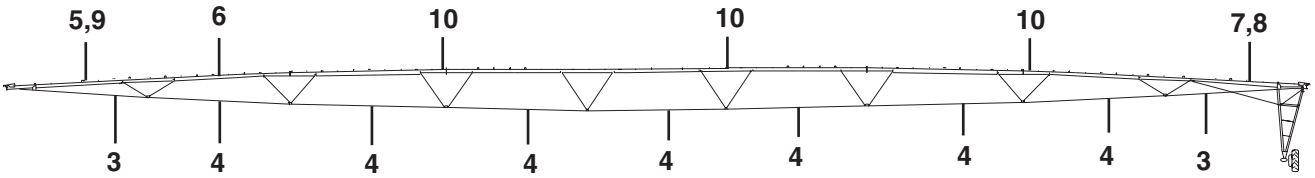
157.5' Span



180' Span



202.5' Span



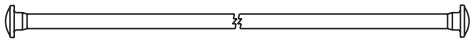
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MODEL 8000P

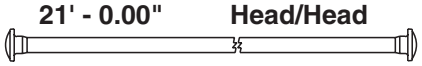
1 20' - 11.94" Head/Head Yellow



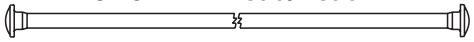
2 22' - 2.97" Head/Head No Color



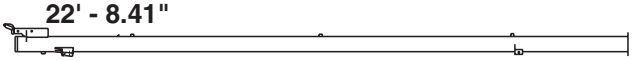
3 21' - 0.00" Head/Head Orange



4 22' -3.19" Head/Head Red



5 22' - 8.41"



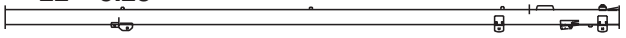
6 22' - 5.28"



7 22' - 8.41"



8 22' - 5.28"



9 22'-5.41"

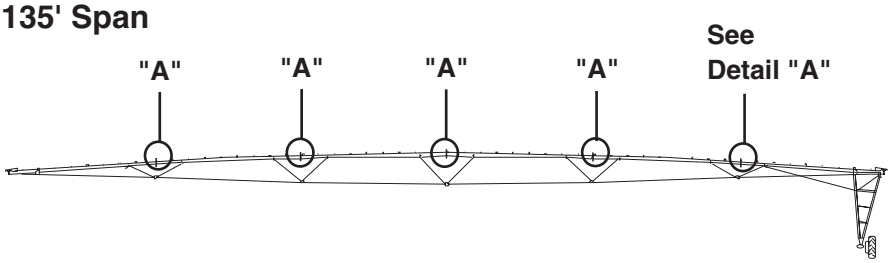


Item	Description	90" Part #
1	3/4" Tower Truss Rod (20'-11.94")	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061
3	13/16" Tower Truss Rod (21'-0")	9360064
4	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
5	Swivel Pipe (22'-8.41")	9362815
6	22-1/2' Std. Intermediate Pipe (22'-5.28")	9362811
7	Fixed Pipe (22'-8.41")	9362813
8	Last Pipe (22'-5.28")	9362819
9	Pivot Pipe (22'-5.41")	9362817

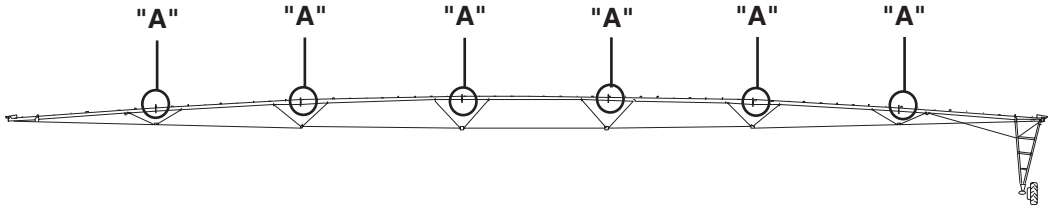
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MODEL 8000P

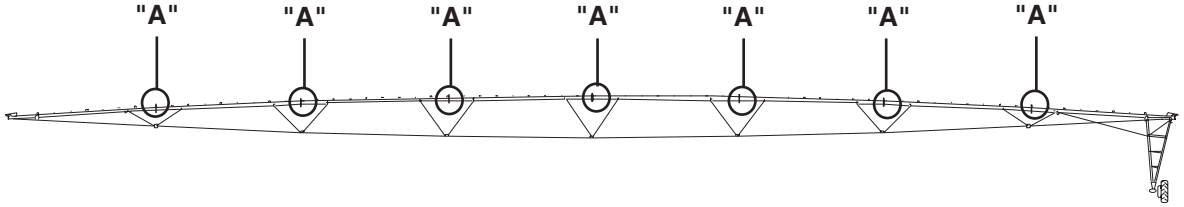
135' Span



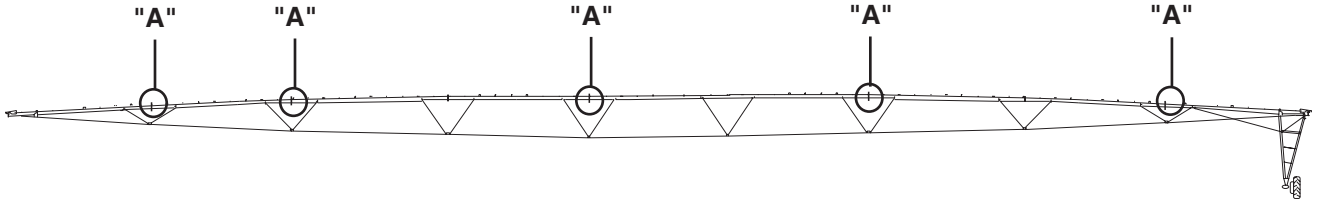
157.5' Span



180' Span



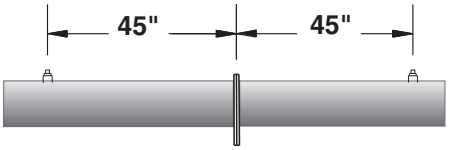
202.5' Span



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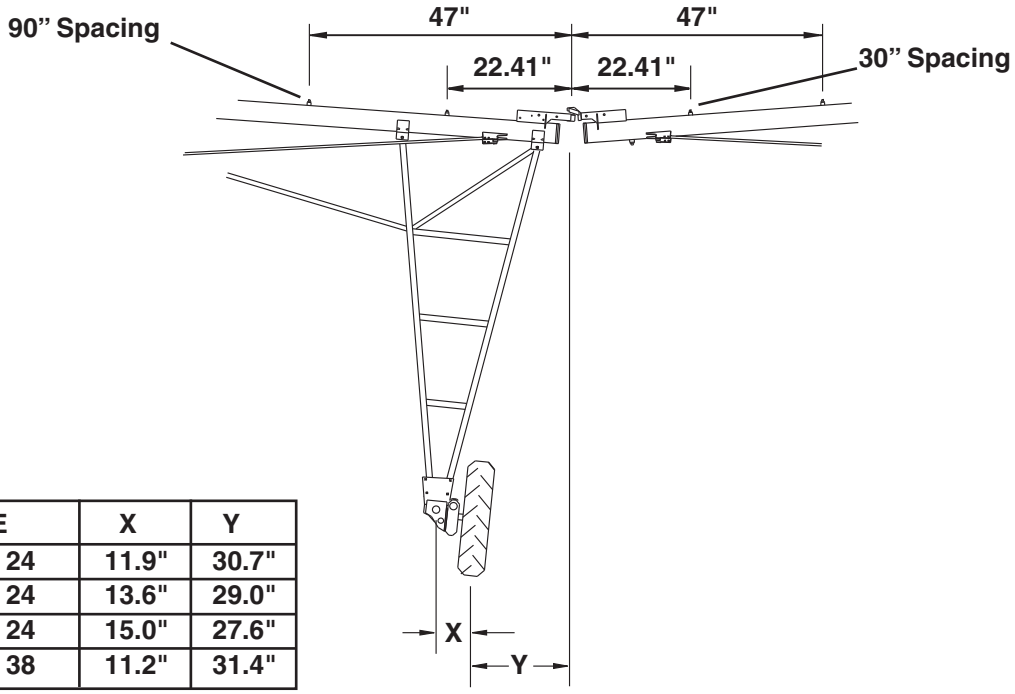
MODEL 8000P

Detail "A"



90" Spacing

PIVOT

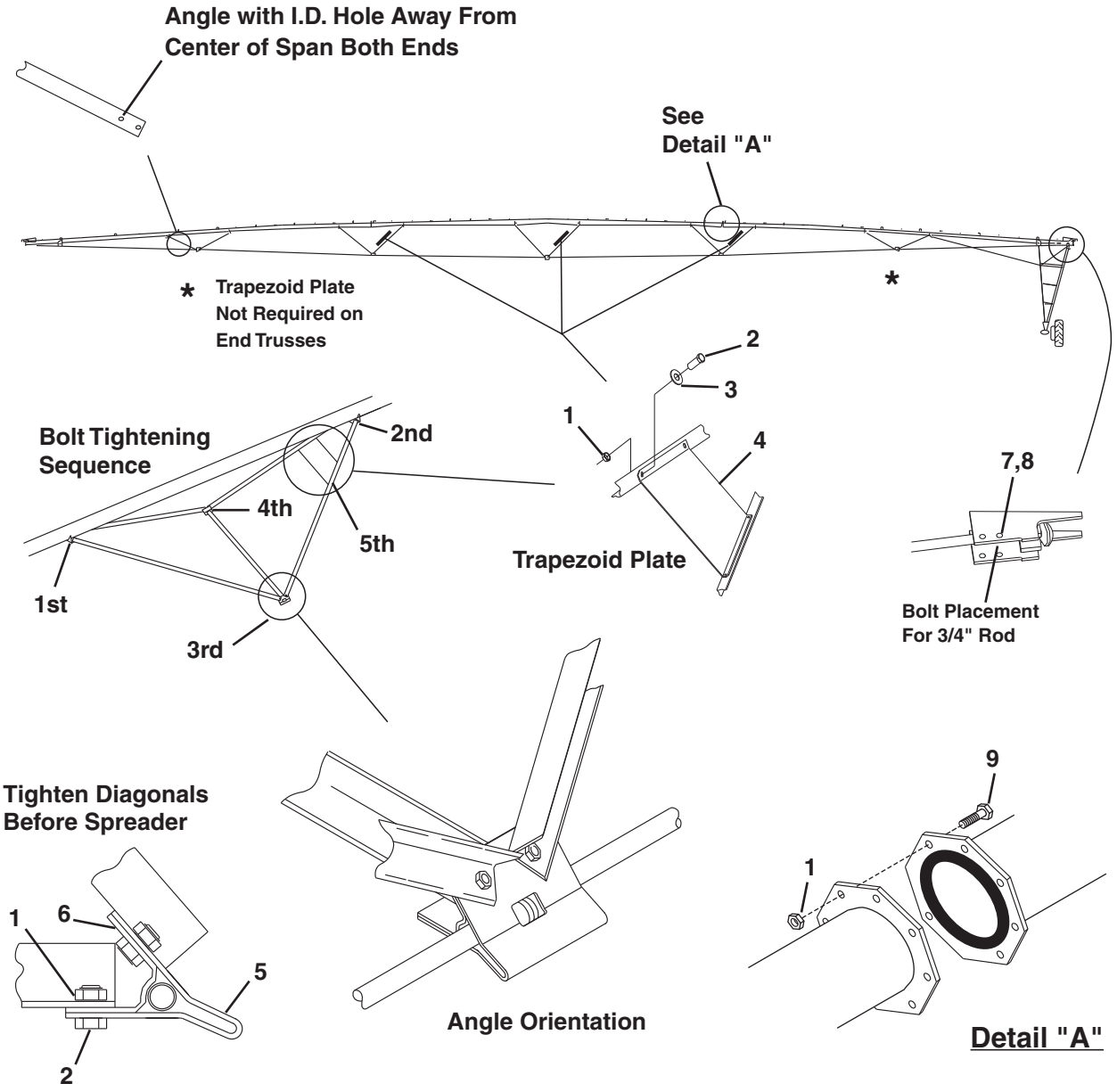


TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

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MODEL 8000P



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2" Cap Screw	0161024

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MODEL 8000P

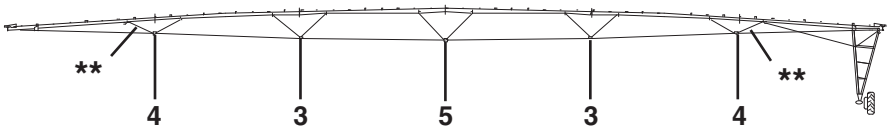
ADD & FREESTANDING PolySpans
EXPORT 8-5/8" PIPE
90"[228.6cm]
COUPLER SPACING



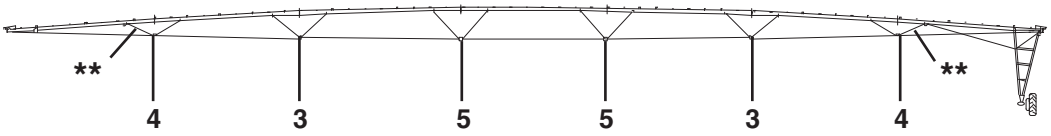
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MODEL 8000P

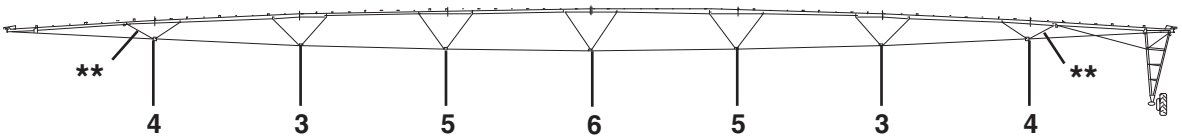
135' Span



157.5' Span



180' Span

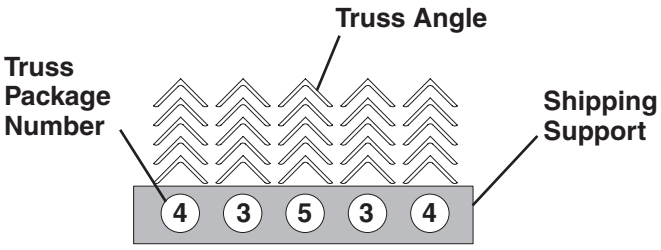


** **NOTE: This is the location of the longer diagonal with the I.D. hole.**

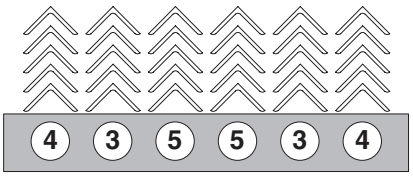
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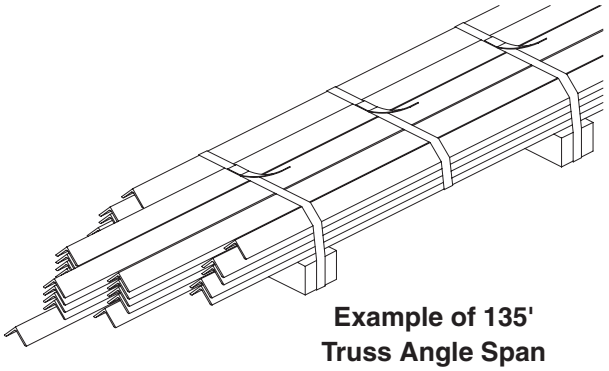
Reference Assembly Detail Page for Exact Location of Truss Packages



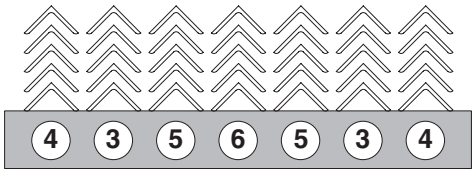
135' Truss Angle Span Pack (KA09047)



157.5' Truss Angle Span Pack (KA09050)



Example of 135' Truss Angle Span Packing



180' Truss Angle Span Pack (KA09025)

NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

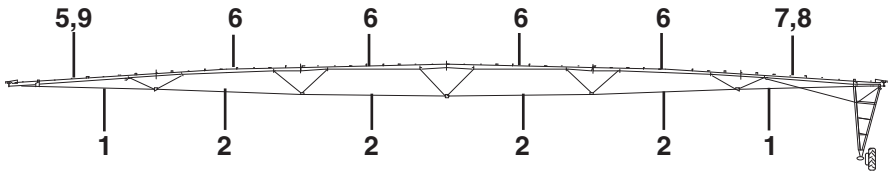
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"

**** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

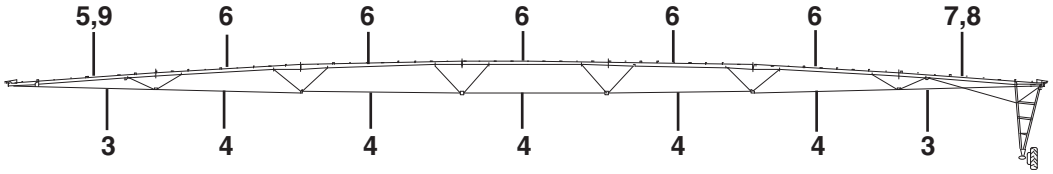
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MODEL 8000P

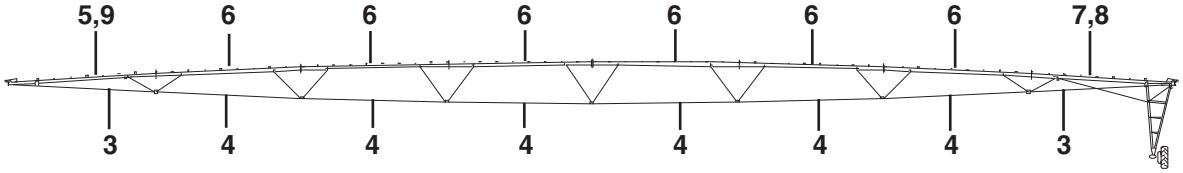
135' Span



157.5' Span

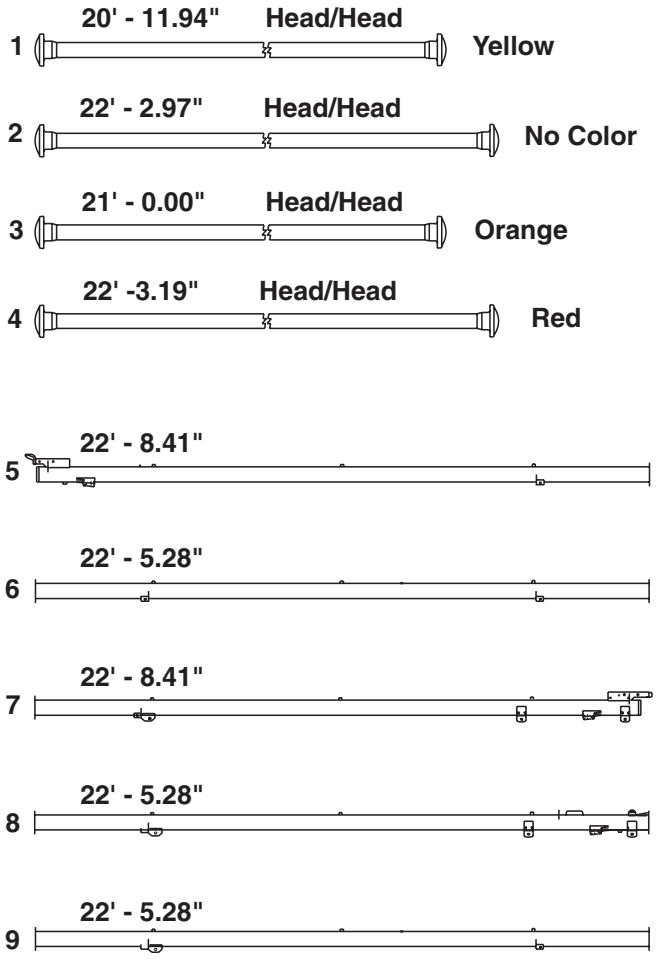


180' Span



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MODEL 8000P

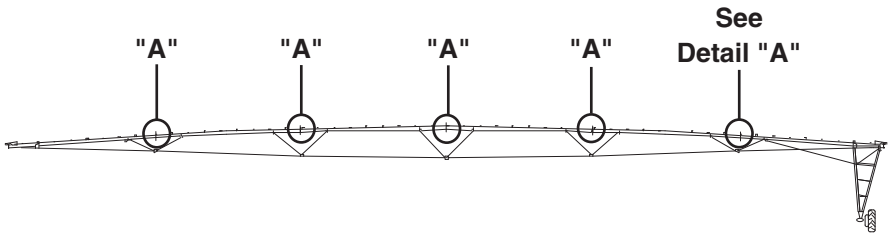


Item	Description	90" Part #
1	3/4" Tower Truss Rod (20'-11.94")	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061
3	13/16" Tower Truss Rod (21'-0")	9360064
4	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
5	Swivel Pipe (22'-8.41")	9362825
6	22-1/2' Std. Intermediate Pipe (22'-5.28")	9362821
7	Fixed Pipe (22'-8.41")	9362823
8	Transition Pipe (22'-5.28")	9362829
9	Pivot Pipe (22'-5.28")	9362827

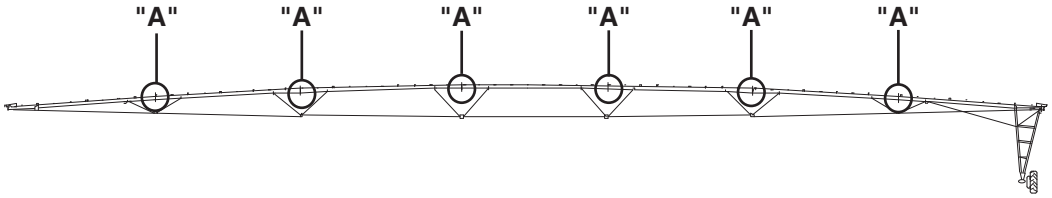
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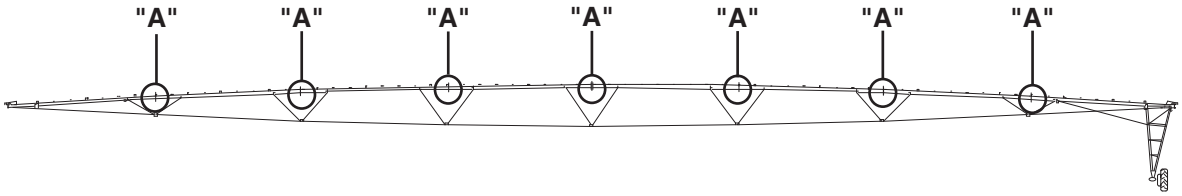
135' Span



157.5' Span



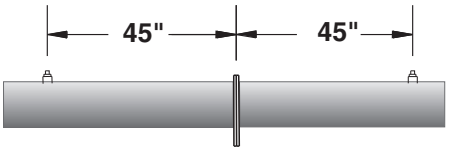
180' Span



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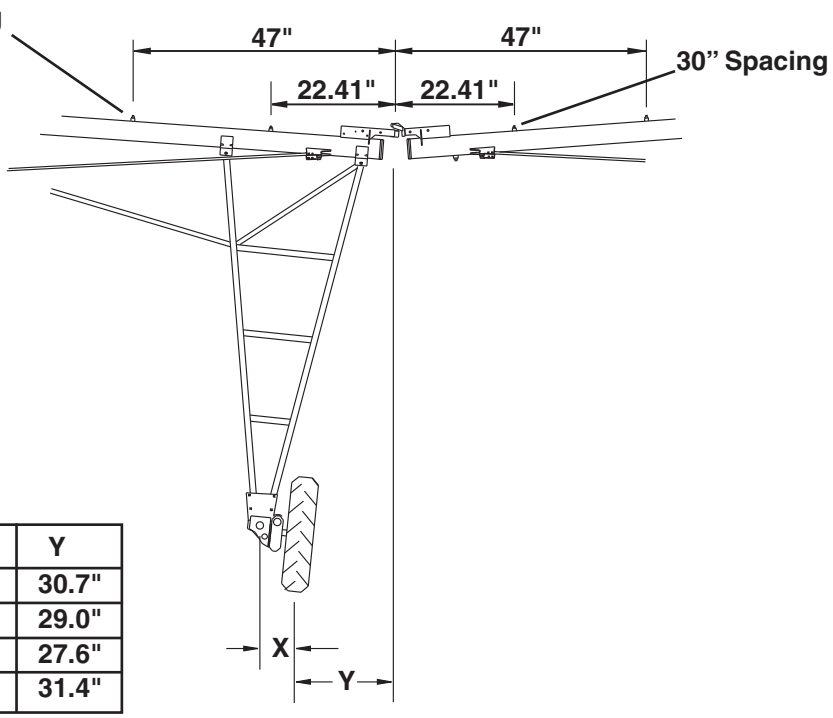
MODEL 8000P

Detail "A"



90" Spacing

PIVOT

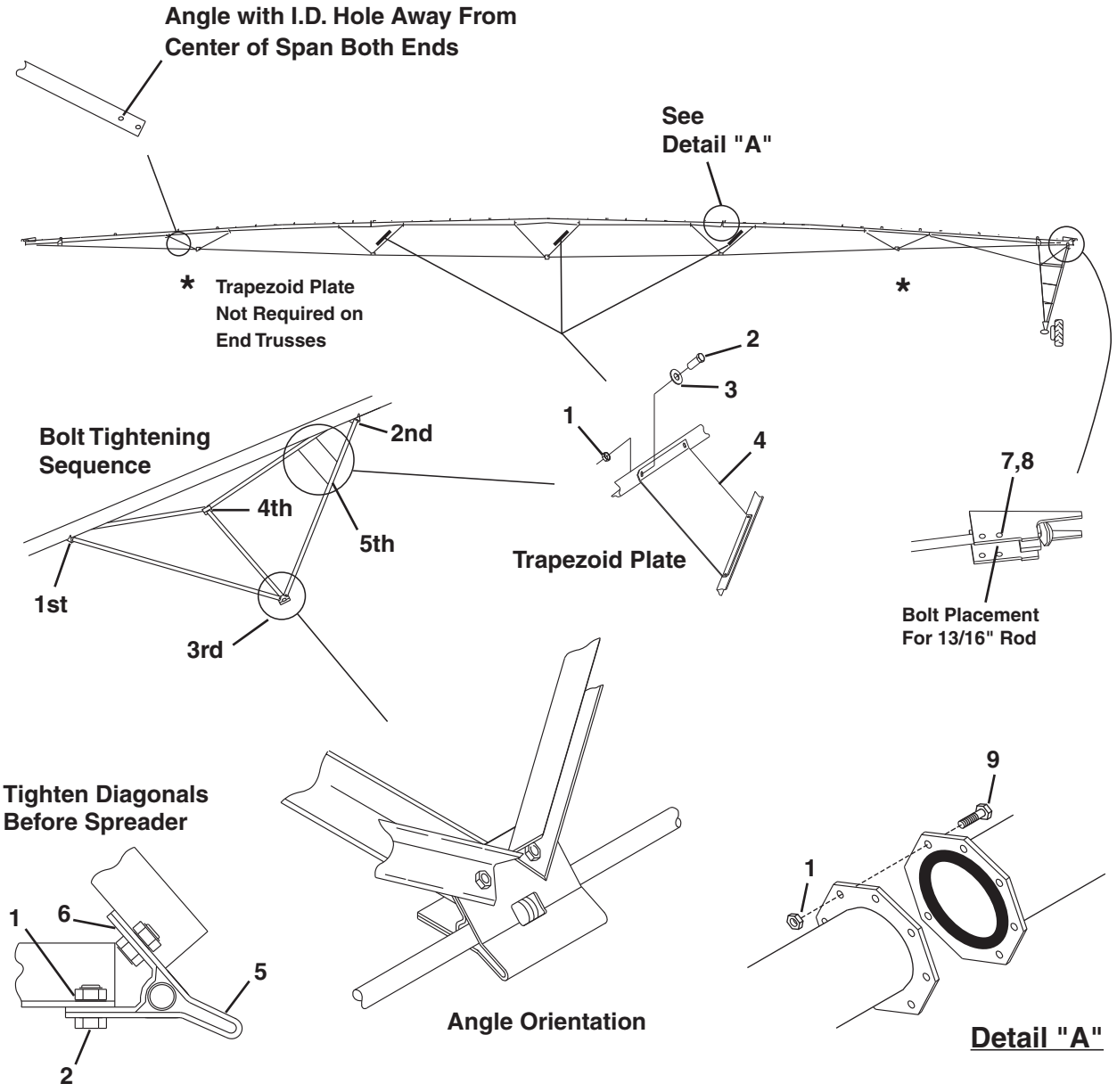


TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

NOTE: The "Y" dimension can vary ±3.0" depending on span length and crown.

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MODEL 8000P



ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2" Cap Screw	0161024

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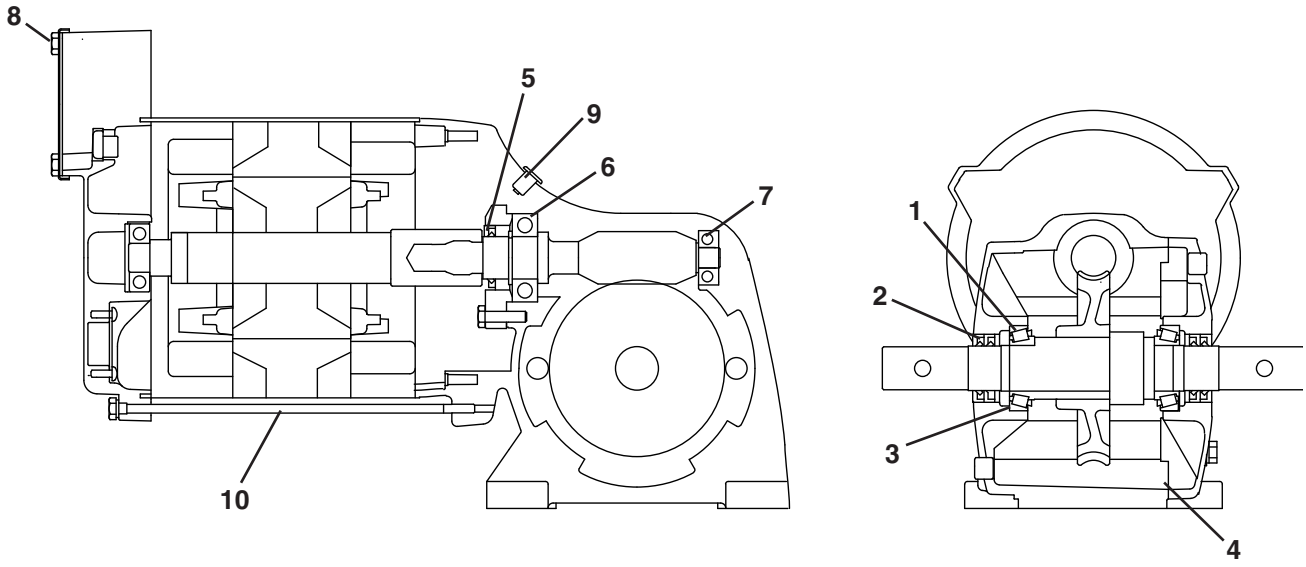
DRIVE UNIT / DRIVE TRAIN

Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
Gearmotor Repair Parts	11-18	13-3
Emerson Helical Gearmotors	04-15	13-4
Baldor-Omni/Boston Helical Gearmotors	05-16	13-5
Nidec-Omni/Boston Helical Gearmotors	05-16	13-6
Greaseless U-Joint	07-07	13-7
Steel U-Joint	11-18	13-8
Drive Shaft & Shields	06-06	13-9
Valmont Gearbox	12-18	13-10
Double Input Gearbox - Non-Towable	12-18	13-11
Gearboxes	03-12	13-12
Gear Lubrication	04-18	13-13
Tires and Rims	03-18	13-14
Non-Tow Basebeam Gearbox Mounts	04-16	13-15
Standard Profile Drive Unit - EFF. Oct. 1998 thru Jan. 2012	10-11	13-16
Standard Profile Drive Unit - EFFECTIVE Feb. 2012	01-19	13-17
Low Profile Drive Unit - EFF. Oct. 1998 thru Jan. 2012	10-11	13-18
Low Profile Drive Unit - EFFECTIVE Feb. 2012	10-11	13-19
High Profile Drive Unit - EFF. Oct. 1998 thru Jan. 2012	10-11	13-20
High Profile Drive Unit - EFFECTIVE Feb. 2012	01-19	13-21
Ultra High Profile Drive Unit	03-15	13-22
Ultra High Profile Parts List	05-08	13-23
Ultra High Profile Drive Unit - INTERNATIONAL ONLY	03-15	13-24
Ultra High Profile Parts List - INTERNATIONAL ONLY	05-08	13-25
Valley Three Wheel Option	04-16	13-26
Valley Three Wheel Option	05-15	13-27
Articulating 4-Wheel Drive	09-10	13-28

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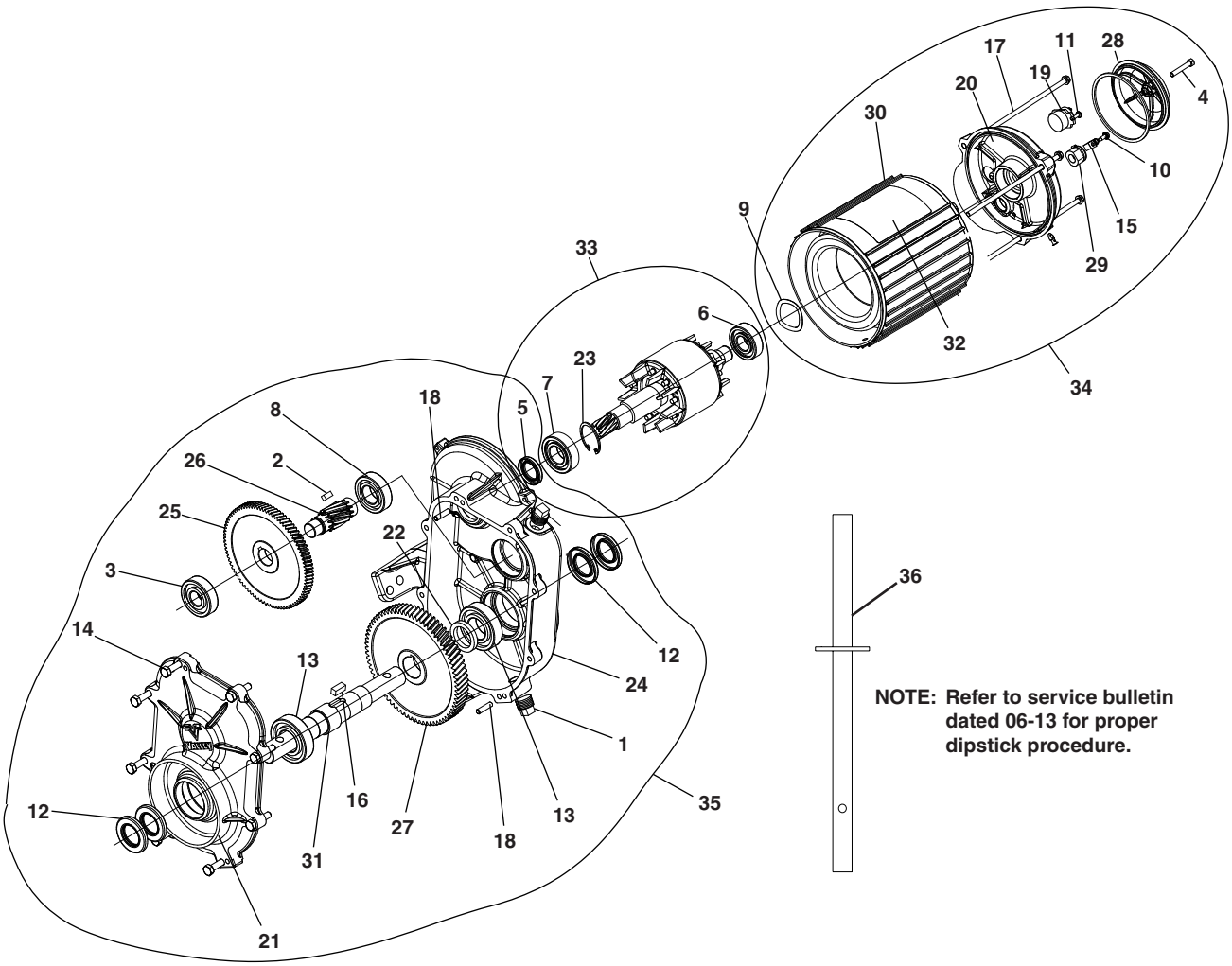
NOTE: The Worm Shaft And Worm Wheel Are Not Available As Repair Units. If Worn Or Broken, Replace With A Complete Gearbox Assembly.

ITEM	DESCRIPTION	U.S. MOTOR PART #	OMNI/BALDOR PART #
1	Output Bearing Cone	0192061	N/A
2	Output Shaft Seal	0258021	0258034
3	Output Bearing Cup	0192060	N/A
4	Gasket - End Plate	0994330	0980281
5	Input Seal	0258022	0258035
6	Input Bearing-Upper	0191060	0191081
7	Input Bearing-Lower	0191059	0191080
8	1/4"-20 x 5/8" Self Tapping Screw	0164146	N/A
9	Plastic Rivet 11/64"	0123022	0123025
10	1/4" x 7-1/4" Cap Screw	0161416	N/A

LINEAR SPANS

RPM	DESCRIPTION	INHERENT PROTECTED	HP	RATIO	WHERE USED	U.S. MOTOR PART #	BALDOR PART #
56	Gearmotor	YES	1.5	31:1	End Tower High Speed	03E2056	03E3867
	Motor Module					03E2046	03E3860
	Gearbox Module					0314928	03E3492

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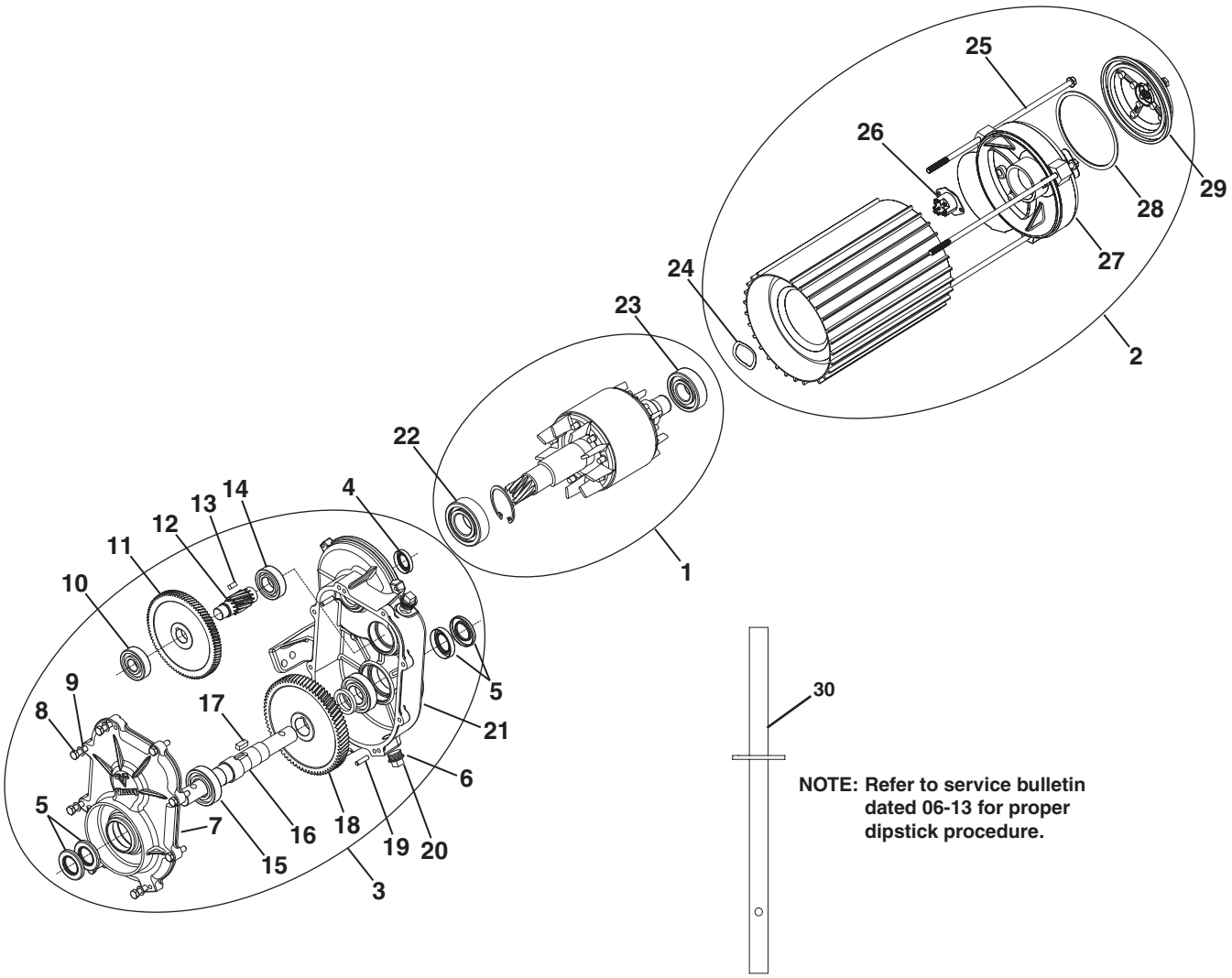
NOTE: Refer to service bulletin dated 06-13 for proper dipstick procedure.

ITEM	DESCRIPTION	PART #
1	1/2" NPT Plug	0246094
2	Key - Intermediate Gear Shaft	03E1747
3	Bearing - Intermediate Gear Shaft	03E1748
4	Cap Screw - 1/4" x 1-1/2" Long	03E2152
5	Seal - Rotor to Gearbox - 34 & 68 RPM	03E1750
	Seal - Rotor to Gearbox - 43 RPM	03E2095
6	Bearing - Motor Cap	03E1751
7	Bearing - Inner Rotor - 34 & 68 RPM	0191060
	Bearing - Inner Rotor - 43 PRM	03E2096
8	Bearing - Intermediate Gear Shaft	03E1753
9	Washer - Spring	03E1754
10	Cap Screw	N/A
11	1/4" x 1/2" Cap Screw	03E1755
12	Seal - Output Shaft	03E1756
13	Bearing - Output Shaft	03E1757
14	Cap Screw - 5/16 x 1-1/4"	N/A
15	Grounding Lug	N/A
16	Key - Output Shaft	03E1758
17	Cap Screw - Stator	03E1759
18	Dowel Pin	N/A
19	Thermal Protector - 34 RPM	03E1760
	Thermal Protector - 68 RPM	03E2063
20	End Cover	N/A
21	Cover - Gear Case	N/A
22	Spacer - Bearing to Gear	03E1761
23	Snap Ring (34 & 68 RPM only)	0257020
	Snap Ring (43 RPM only)	0257021

ITEM	DESCRIPTION	PART #
24	Gear Case - 34 & 68 RPM	03E1860
	Gear Case - 43 RPM	03E2097
25	Gear - Intermediate - 34 & 68 RPM	03E1763
	Gear - Intermediate - 43 RPM	03E2098
26	Gear and Shaft - Intermediate	03E1764
27	Gear - Output	03E1765
28	Cover with Gasket - Wire Junction Box	03E2156
29	Wire Grommet	N/A
30	Stator (See #35)	N/A
31	Output Shaft	03E1768
32	Name Plate	N/A
33	Rotor Assm w/(2 Brgs & Seal)-34 RPM	03E2479
	Rotor Assm w/(2 Brgs & Seal)-43 RPM	03E2090
	Rotor Assm w/(2 Brgs & Seal)-68 RPM	03E2480
34	Stator Module Assembly - 34 & 43 RPM	03E1556
	Stator Module Assembly - 68 RPM	03E1559
35	Gearbox Assembly (34 & 68 RPM)	03E1555
	Gearbox Assembly (43 RPM)	03E2089
36	Helical Center Drive Dipstick	0998886

COMPLETE 34 RPM Gearmotor Assembly	
Gearbox and Electric Motor Module	03E1554
COMPLETE 43 RPM Gearmotor Assembly	
Gearbox and Electric Motor Module	03E2088
COMPLETE 68 RPM Gearmotor Assembly	
Gearbox and Electric Motor Module	03E1558

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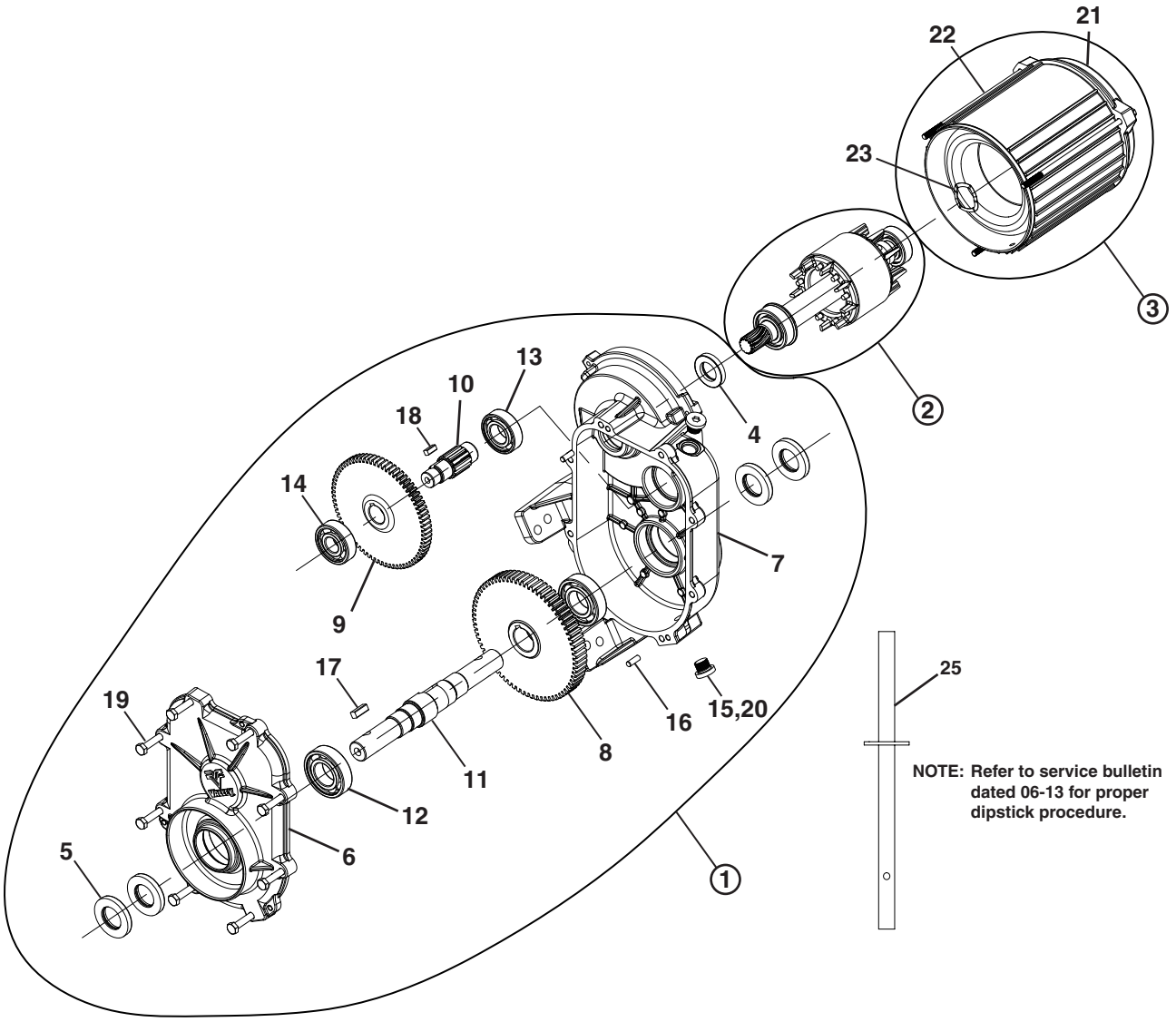


NOTE: Refer to service bulletin dated 06-13 for proper dipstick procedure.

ITEM	DESCRIPTION	PART #
1	Rotor Assm w/(2 Brgs & Seal) - 34 RPM	03E2309
	Rotor Assm w/(2 Brgs & Seal) - 68 RPM	03E2310
2	Stator Module Assembly - 34 RPM (Service)	03E2839
	Stator Module Assembly - 68 RPM (Service)	03E2840
3	Gearbox Assembly (34 & 68 RPM)	03E2465
4	Input Seal - (EFF. 2008)	0318175
	Input Seal - (PRIOR TO 2008)	0318177
5	Output Seal	0318176
6	O-Ring	0997874
7	Cover	03E2946
8	M8 x 1-1/4 x 30 Bolt	03E3014
9	Flat Washer	03E3013
10	Gear Bearing - 6304	03E3008
11	Gear - High Speed - 86T	03E3003
12	Pinion - Low Speed - 11T	03E3004
13	6 x 6 x 12.7 Gear Key	03E3012
14	Gear Bearing - 6205	03E3007
15	Gear Bearing - 6206	03E3006
16	Gear Shaft - Low Speed	03E3005
17	8 x 7 x 23.5 Gear Key	03E3011

ITEM	DESCRIPTION	PART #
18	Gear - Low Speed - 73T	03E3002
19	Gear Dowel Pin	03E3010
20	Gear Flange Plug	03E3009
21	Housing	03E3001
22	Rotor Bearing - 6205	03E3041
23	Rotor Bearing - 6203	03E3040
24	Wavy Washer	03E3057
25	Through Bolt	03E3047
26	Thermal - TPMYJ42WO - .6 / 34 RPM	03E3043
	Thermal - TPMYJ38AO - 1.2 / 68 RPM	03E3042
27	Endplate	03E3046
28	Gasket	03E3045
29	Lid	03E3044
30	Helical Center Drive Dipstick	0998886
	34 RPM Gearmotor Assembly	
	Gearbox and Electric Motor Module	03E2468
	68 RPM Gearmotor Assembly	
	Gearbox and Electric Motor Module	03E2469

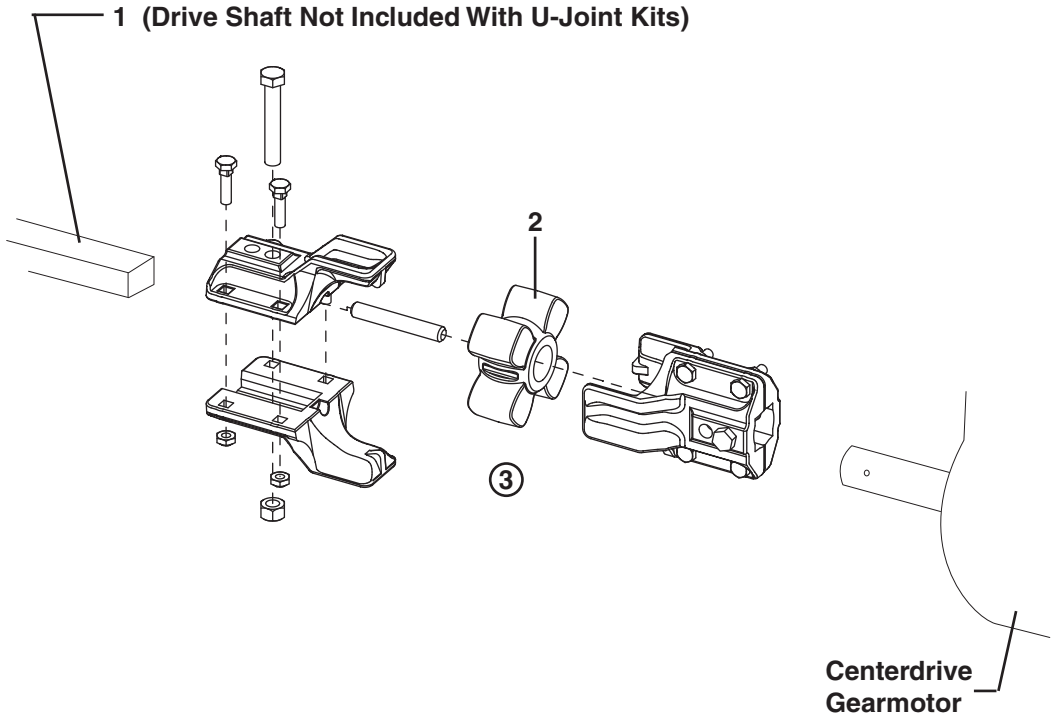
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ITEM	DESCRIPTION	PART #
1	Helical Gearbox Assembly (34 & 68 RPM)	03E2465
2	Rotor Assm w/(2 Brgs & Snap Ring) - 34 RPM (Serv)	03E3581
	Rotor Assm w/(2 Brgs & Snap Ring) - 68 RPM (Serv)	03E3586
3	Stator Module Assembly - 34 RPM (Service)	03E3582
	Stator Module Assembly - 68 RPM (Service)	03E3587
	Stator Module Assembly - 43 RPM (Service)	03E3585
4	Input Seal	0318175
5	Output Seal	0318176
6	Cover	03E2946
7	Housing	03E3001
8	Gear - Low Speed - 73T	03E3002
	*Gear - 40:1	03E3599
9	Gear - High Speed - 86T	03E3003
10	Pinion - Low Speed - 11T	03E3004
	*Pinion - 40:1	03E3598
11	Gear Shaft - Low Speed	03E3005
12	Gear Bearing - 6206	03E3006
13	Gear Bearing - 6205	03E3007
14	Gear Bearing - 6304	03E3008
15	Gear Flange Plug	03E3009

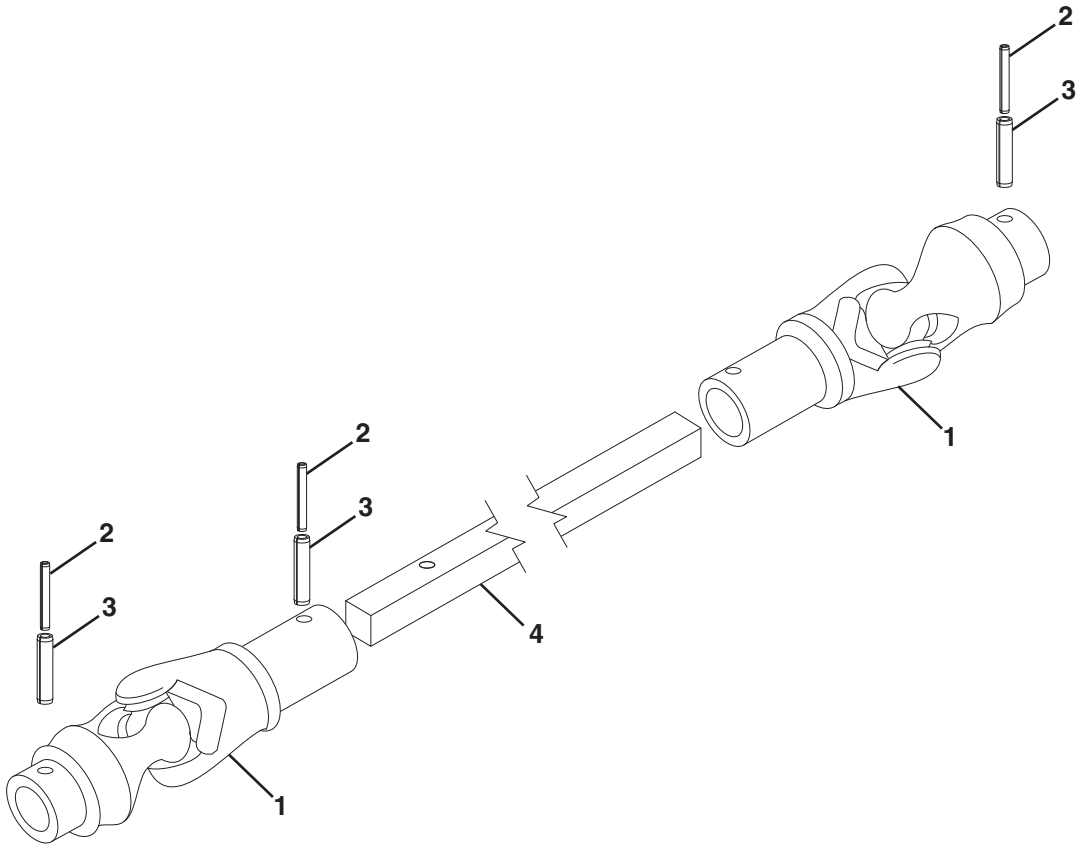
ITEM	DESCRIPTION	PART #
16	Gear Dowel Pin	03E3010
17	8 x 7 x 23.5 Gear Key	03E3011
18	6 x 6 x 12.7 Gear Key	03E3012
19	M8 x 1.25 x 30 Bolt	03E3014
20	O-Ring	0997874
21	Lid/Gasket	03E2156
22	Cap Screw - Stator	03E1759
23	Wavy Washer	03E1754
24	Thermal - 34 RPM (not shown)	03E1760
	Thermal - 68 RPM (not shown)	03E2063
25	Helical Center Drive Dipstick	0998886
	34 RPM Gearbox Assembly - Gearbox and Electric Motor Module	03E3452
	68 RPM Gearbox Assembly - Gearbox and Electric Motor Module	03E3476
	*43 RPM Gearbox Assembly - Gearbox and Electric Motor Module - 40:1 (Boston ONLY) (Uses 34 RPM Rotor Assm. 03E3581)	03E3473

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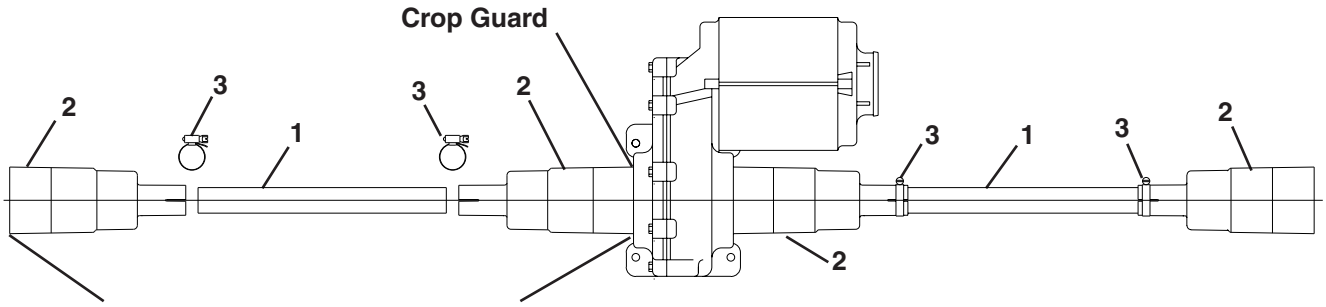
ITEM	DESCRIPTION	PART #
1	Drive Shaft 7/8" Sq. x 45.38" Long (Low Profile Add Span Drive Unit)	1702258
	Drive Shaft 7/8" Sq. x 60.12" Long (Std. Profile Add Span D.U.)	9361713
	Drive Shaft 7/8" Sq. x 81.06" Long (Hi-Profile Add Span D.U. & Rainger Cart)	9361714
2	NonTow Flex Joint Heavy Duty Insert	0996201
3	Ultra Heavy Duty Flex Joint Kit w/Rod - 7/8" Sq. x 1" Round (NonTow)	KA01300
	COMPLETE Flex Joint "Squex" Head Bolt Kit	KA01312

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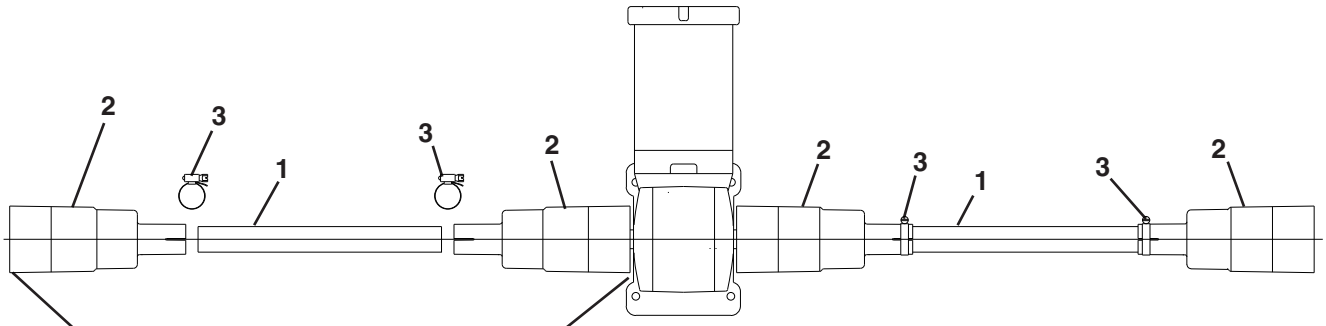
ITEM	DESCRIPTION	PART #
1	Universal Joint	0991234
2	7/32" x 1-3/4" Spring Pin	0112032
3	3/8" x 1-3/4" Spring Pin	0112031
4	7/8" Sq. x 60.12" Drive Shaft - Long (for Single Motor)	9364979
	7/8" x 51.12" Drive Shaft (for Dual Motor)	9361509

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NOTE: Install shields inside crop guard with 1/8" gap between shield and gearboxes/center drive. Shield assemblies should rotate freely over drive shaft and u-joints.

Helical Gear Center Drive

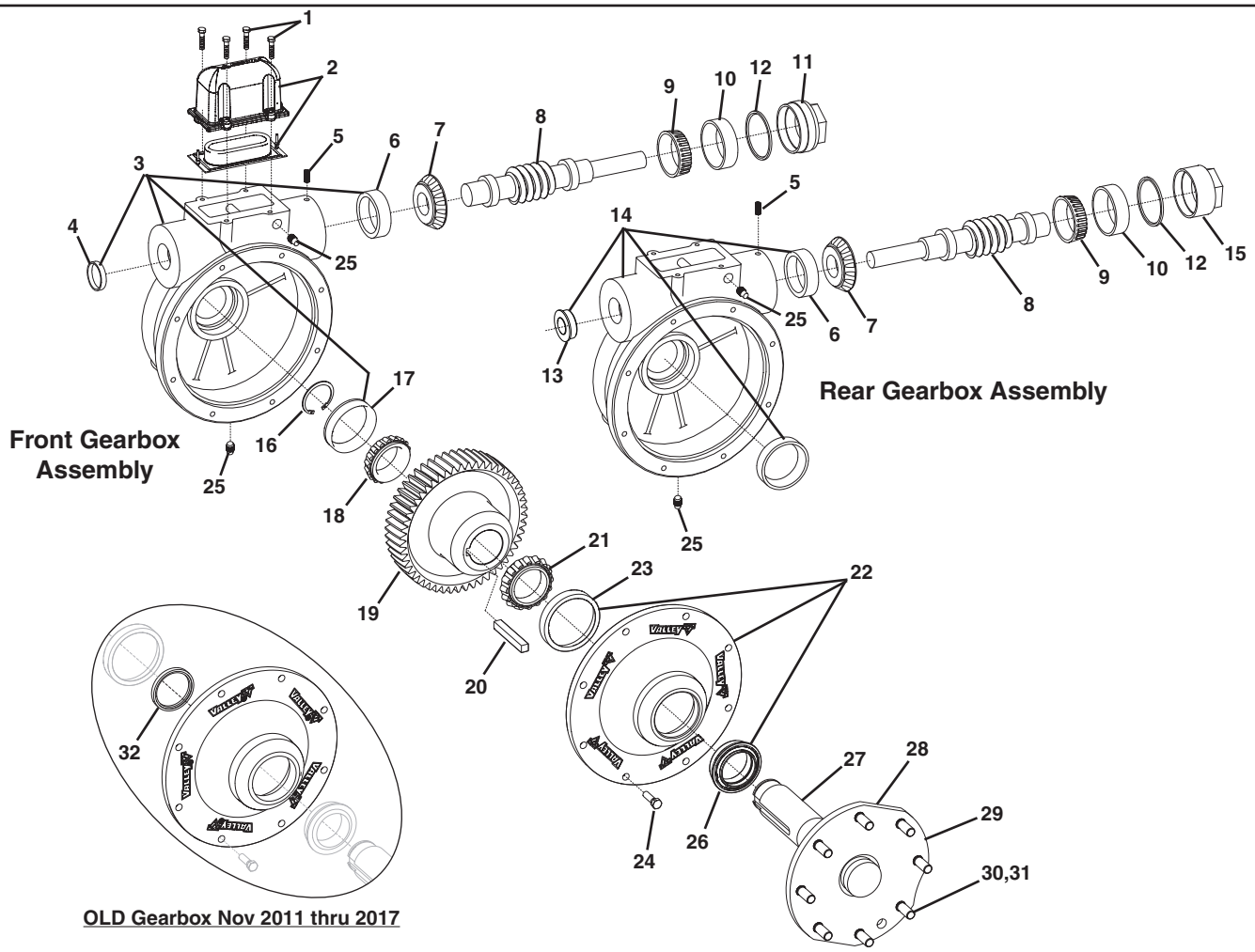


NOTE: Install Shields with 1/8" gap between shield and gearboxes/center drive. Shield Assemblies should rotate freely over drive shaft and u-joints.

Worm Gear Center Drive

ITEM	DESCRIPTION	PART #
1	Shield - 40.62" Long (Low Profile Add Span D.U.)	0992716
	Shield - 55.38" Long (Std. Profile Add Span D.U.)	0992715
	Shield - 76.31" Long (Rainger Linear Cart & High Profile Add Span D.U.)	0992717
2	Shield - 11.75" Long	1702614
3	Clamp-Stainless Steel	0271013

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ITEM	DESCRIPTION	PART #
1	5/16" x 1" Cap Screw	0161052
2	Expansion Cap	1701326
3	Front Housing & Worm Cup Assembly	1701401
4	End Cap (Front Only)	0991178
5	5/16" x 5/8" Set Screw	0164069
6	Cup	0191024
7	Cone	0191023
8	Worm Gear	1701922
9	Input Bearing Cone	0191029
10	Input Bearing Cup	0191030
11	End Cap Assembly (Front Only)	1781714
12	O-Ring Seal (End Cap)	0256029
13	Input Shaft Seal	0258023
14	Rear Housing & Worm Cup Assembly	1701405
15	End Cap (Rear Only)	1781713
16	Snap Ring	0257013
17	Output Shaft Bearing Cup	0191026
18	Output Shaft Bearing Cone	0191025
19	Wheel Worm	1700868
20	Worm Gear Key	1700853
21	Output Shaft Bearing Cone	0191027
22	Neck and Seal Assembly	1701402
23	Output Shaft Bearing Cup	0191028
24	3/8" x 1-1/4" Cap Screw	0161153
25	Plug, Square Head 1/2" NPT	0246094

ITEM	DESCRIPTION	PART #
26	Output Shaft Seal	0258028
27	Axle Assembly (Non-Tow)	1703239
28	Backup Plate	1701791
29	Plate w/Studs Only	1701963
30	9/16" x 1-13/16" Stud Bolt (Non-Tow)	0164105
31	9/16" Lug Nut (Non-Tow)	0134049
32	Spacer (for Output Seal)	0980414 *

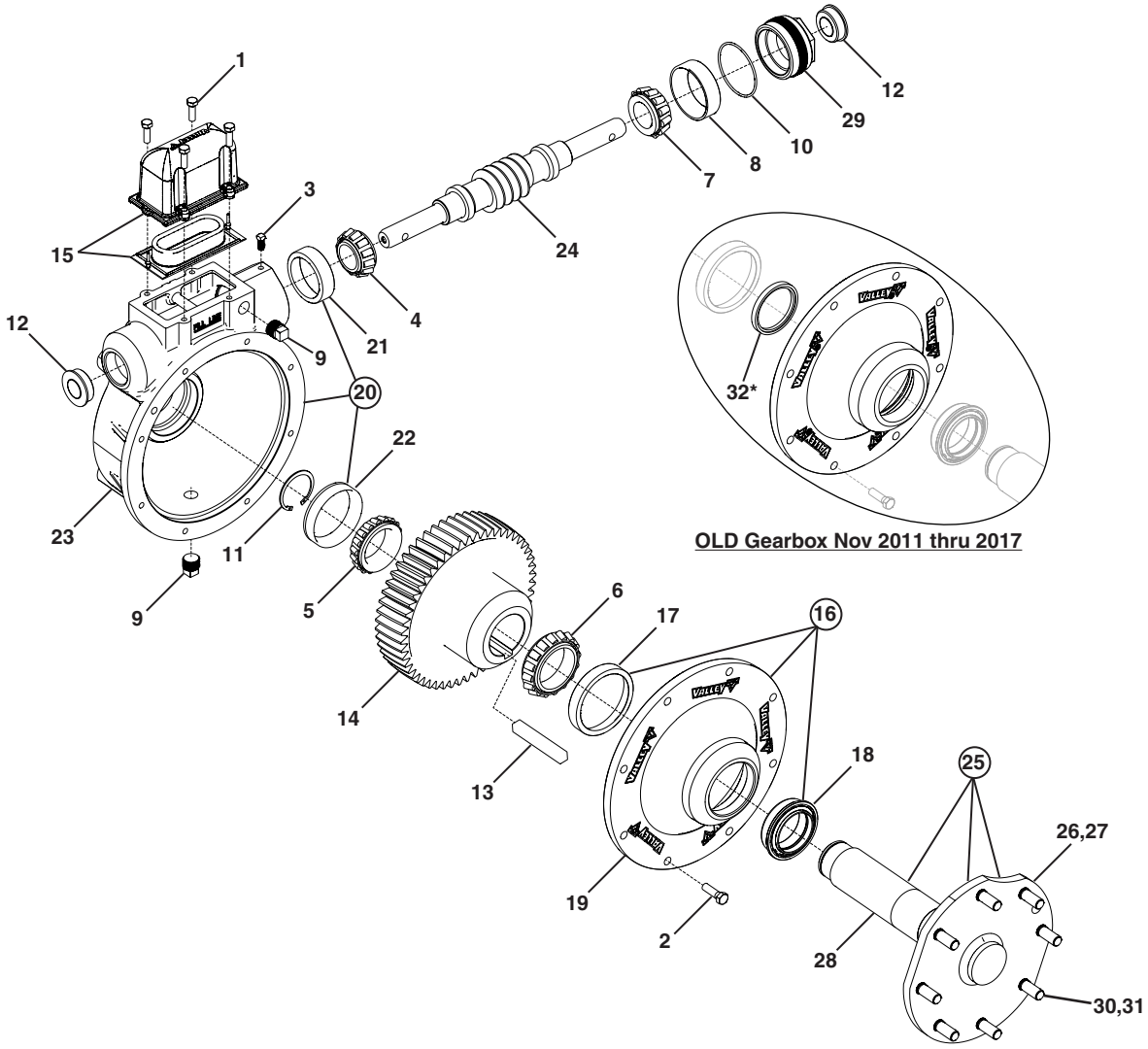
COMPLETE Front Gearbox Assembly	1701966
COMPLETE Rear Gearbox Assembly	1701965

SPECIALTY GEARBOXES

COMPLETE Heavy Duty Bronze Gearbox Front	1732144
COMPLETE Heavy Duty Bronze Gearbox Rear	1732143
Bronze Gear	1701423
Steel Worm for Bronze Gear	1732140
COMPLETE H.D. Bronze Gearbox Front (Towable)	1732835
COMPLETE H.D. Bronze Gearbox Rear (Towable)	1732836
COMPLETE Non-Tow Gearbox (Univ. Front & Rear)	1703321
Worm Gear	1702360
Housing	1701405

*** NOTE: Rebuild ONLY for gearboxes pre-2018-post Nov 2011.**
NOTE: Item 2 Expansion Cap incl. Diaphragm...0991230

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OLD Gearbox Nov 2011 thru 2017

ITEM	DESCRIPTION	PART #
1	5/16" x 1" Cap Screw	0161052
2	3/8" x 1-1/4" Cap Screw	0161153
3	5/16" x 5/8" Set Screw	0164069
4	Input Shaft Bearing Cone	0191023
5	Output Shaft Bearing Cone	0191025
6	Output Shaft Bearing Cone	0191027
7	Input Shaft Bearing Cone	0191029
8	Input Shaft Bearing Cup	0191030
9	Plug, Square Head 1/2" NPT	0246094
10	O Ring Seal (End Cap)	0256029
11	Snap Ring	0257013
12	Input Shaft Seal	0258023
13	Worm Gear Key	1700853
14	Wheel Worm Gear	1700868
	Wheel Worm Gear - Bronze (for Heavy Duty)	1701423
15	Expansion Cap, Machined - Gearbox	1701326
16	Neck and Seal Assembly	1701402
17	Output Shaft Bearing Cup	0191028
18	Output Shaft Seal - 7 Lip	0258028
19	Neck Casting	0282056
20	Rear Housing & Races Assembly	1701405
21	Input Shaft Bearing Cup	0191024

ITEM	DESCRIPTION	PART #
22	Output Shaft Bearing Cup	0191026
23	Gearcase Housing	1704267
24	Worm Wheel Drive	1702360
	Worm Wheel Drive - Steel (for Heavy Duty)	9361661
25	Axle Assembly - Non-Tow	1703239
26	Output Flange Support Plate	1701791
27	Flange Axle Assembly, w/Studs - Non-Tow	1701963
28	Output Shaft - Non-Tow	1703238
29	End Cap	1781714
30	9/16" x 1-13/16" Stud Bolt - Non-Tow	0164105
31	9/16" Lug Nut - Non-Tow	0134049
32	Spacer (for Output Seal)	0980414 *
	Double Input Gearbox Assm. - Non-Tow	1703321
	Double Input Gearbox Assm. - Heavy Duty	9363173

Item 18-Neck and Seal Assm includes Item 19, 20 & 21.
Item 22-Rear Housing & Races Assm. includes Item 23, 24 & 25.
Item 27-Axle Assm. includes Item 28, 29 & 30.
* NOTE: Rebuild ONLY for gearboxes pre-2018-post Nov 2011.
NOTE: Item 15 Expansion Cap incl. Diaphragm...0991230.

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PART #	NAME	DESCRIPTION	IDENTIFICATION DECAL
1701965	REAR NON-TOW 52:1	Rear Standard Housing, Regular Output Shaft, Reg. Bull Gear, Ductile Worm.	Orange w/White Lettering ("R" & Part #)
1701966	FRONT NON-TOW 52:1	Front Standard Housing, Reg. Output Shaft, Reg. Bull Gear, Ductile Worm	White w/Black Lettering ("F" & Part #)
1732143	HEAVY DUTY REAR 52:1	Rear Standard Housing, Std. Output Shaft Bronze Bull Gear, Steel Worm	Red w/White Lettering ("R" & Part #)
1732144	HEAVY DUTY FRONT 52:1	Front Standard Housing, Std. Output Shaft, Bronze Bull Gear, Steel Worm	Red w/Black Lettering ("F" & Part #)
1703321	UNIVERSAL NON-TOW 52:1	Standard Housing, Regular Output Shaft, Reg. Bull Gear, Double End Ductile Worm	Blue w/White Lettering (Part #)
1702761	REAR TOWABLE 52:1	Rear Standard Housing, Tow Output Shaft, Reg. Bull Gear, Ductile Worm, w/Tow Hub	Black w/White Lettering ("R" & Part #)
1702760	FRONT TOWABLE 52:1	Front Standard Housing, Tow Output Shaft, Reg. Bull Gear, Ductile Worm, w/Tow Hub	White w/Black Lettering ("F" & Part #)
1732836	HEAVY DUTY REAR TOW 52:1	Rear Standard Housing, Tow Output Shaft, Bronze Bull Gear, Steel Worm, w/Tow Hub	White w/Gold Lettering ("R" & Part #)
1732835	HEAVY DUTY FRONT TOW 52:1	Front Standard Housing, Tow Output Shaft, Bronze Bull Gear, Steel Worm, w/Tow Hub	Gold w/White Lettering ("F" & Part #)
1703768	UNIVERSAL TOWABLE 52:1	Standard Housing, Tow Output Shaft, Reg. Bull Gear, Double End Ductile Worm, w/Tow Hub	Orange w/Black Lettering (Part #)
1781677	REAR NON-TOW 50:1	Rear Universal Housing, Short Output Shaft, Red Bull Gear, Ductile Worm	Black w/Yellow Lettering ("R" & Part #)
1781676	FRONT NON-TOW 50:1	Front Universal Housing, Short Output Shaft, Red Bull Gear, Ductile Worm	Black w/Yellow Lettering ("F" & Part #)
1703280	UNIVERSAL - SHORT 50:1	Universal Housing, Short Output Shaft, Red Bull Gear, Double End Ductile Worm	Gold w/Black Lettering (Part #)
1703320	UNIVERSAL - STANDARD 50:1	Rear Universal Housing, Standard Output Shaft, Red Bull Gear, Double End Ductile Worm	Green w/Black Lettering (Part #)
1703527	UNIVERSAL TOWABLE 50:1	Rear Universal Housing, Tow Output Shaft, Red Bull Gear, Double End Ductile Worm	White w/Black Lettering (Part #)

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RECOMMENDED WORM GEAR OIL

REFER TO LUBRICATION PLATE FOR PROPER VISCOSITY OF OIL REQUIRED FOR OPERATING TEMPERATURE. USE VALMONT GEAR LUBE LISTED BELOW.

vLube Xtreme Valley Gear Lube		
Standard & Heavy Duty Gearboxes		
Gallons	Part #	Specification of Worm Gear Oil
Bulk	0999998	BLUE 85W/140
55	0999999	
16	0999946	
5	0999948	
2.5	0999980	

Valley Gear Lube		
Standard Gearbox w/Cast Iron Worm Wheel		
Gallons	Part #	Specification of Worm Gear Oil
55	0996557 DISCONTINUED	BLUE 85W/140
16	0996558 DISCONTINUED	
5	0996559 DISCONTINUED	
2.5	0996560 DISCONTINUED	
Heavy Duty Gearbox w/Bronze Worm Wheel		
Gallons	Part #	Specification of Worm Gear Oil
55	0996587 DISCONTINUED	RED 85W/140
2.5	0996586 DISCONTINUED	

NOTE: For replacement part #s for DISCONTINUED Gear Lube refer to gallon equivalent vLube Xtreme Valley Gear Lube #s at top of chart.

NOTE: The recommended lubricant listed above is a compounded warm lubricant containing non-corrosive extreme pressure additives. DO NOT USE lubricants containing sulfur and/or chlorine extreme pressure additives which are corrosive to worm gear bronze. The oil bath in worm gear cases may reach a temperature of 200° F (94° C) without alarm.

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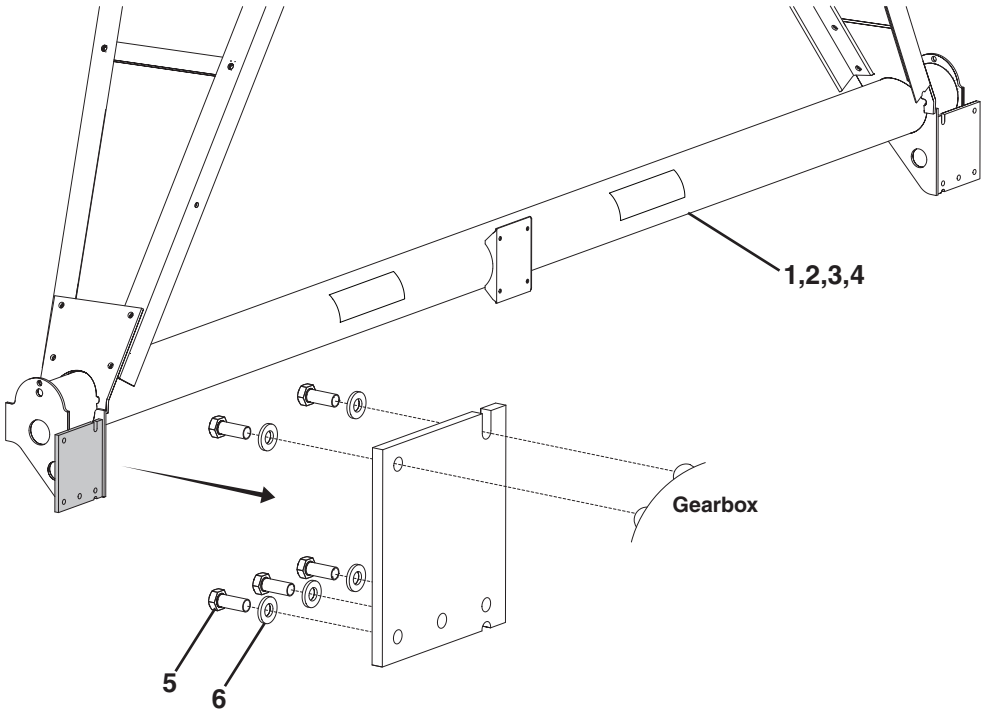
Rim Description		Front Assm.	Rear Assm.	Tube	Rim	Tire	Operating Pressure (PSI)	Offset (Inches)	Valve Stem
Hi-Float 14.9 x 24	TITAN	1701103	1701104	-	1702348	0991256	18*	0.5[1]	0991282
	FIRESTONE	1704026	1704027	-	1702348	0996552	18*	0.5[1]	0991282
Hi-Float w/Tube 14.9 x 24	TITAN	1703788	1703787	0991175	1702348	0991256	18*	0.5[1]	-
	FIRESTONE	1704028	1704029	0991175	1702348	0996552	18*	0.5[1]	-
Hi-Float Turf Tubeless 14.9 x 24		9363130	9363130	-	1702348	0997324	18*	0.5[1]	0991282
Hi-Float Turf w/Tube 14.9 x 24	TITAN	1703335	1703335	0991175	1702348	0993242	18*	0.5[1]	-
	FIRESTONE	9363129	9363129	0991175	1702348	0997324	18*	0.5[1]	-
Hi-Float non-Directional w/Tube 14.9 x 24	FIRESTONE	1704163	1704163	0991175	1702348	0997900	18	0.5	-
Hi-Float non-Directional Tubeless 14.9 x 24	FIRESTONE	1704164	1704164	-	1702348	0997900	18	0.5	0991282
Tubeless 14.9 x 24	CULTOR	1704259	1704260	-	1702348	0998871	18	0.5	0991282
w/ Tube 14.9 x 24	CULTOR	1704262	1704261	0991175	1702348	0998871	18	0.5	-
Tubeless 11.2 x 38	TITAN	1703715	1703714	-	1703723	0994214	23	1.72	0991282
	FIRESTONE	1703851	1703850	-	1703723	0996658	23	1.72	0991282
w/Tube 11.2 x 38	TITAN	1703743	1703744	0994215	1703723	0994214	23	1.72	-
	FIRESTONE	1703852	1703853	0994215	1703723	0996658	23	1.72	-
6-Ply non-Directional w/Tube 11.2 x 38	FIRESTONE	1704295	1704295	0994215	1703723	0999565	34	1.72	-
6-Ply non-Directional Tubeless 11.2 x 38	FIRESTONE	1704294	1704294	-	1703723	0999565	34	1.72	0991282
6-Ply non-Directional w/Tube 11.2 x 38	FIRESTONE	1704295	1704295	0994215	1703723	0999565	34	1.72	-
6-Ply non-Directional Tubeless 11.2 x 38	FIRESTONE	1704294	1704294	-	1703723	0999565	34	1.72	0991282
6-Ply Tubeless 11.2 x 38	FIRESTONE	9364493	9364494	-	1703723	0999117	34	1.72	0991282
6-Ply w/Tube 11.2 x 38	FIRESTONE	9364491	9364492	0994215	1703723	0999117	34	1.72	-
Maxi Float Tubeless 16.9 x 24	TITAN	1703611	1703612	-	1702349	0991608	16	1.5	0991282
	FIRESTONE	1703834	1703835	-	1702349	0996657	16	1.5	0991282
	~~VALLEY V-GRIP~~	~~1704306~~	~~1704307~~	-	~~1704301~~	~~0980322~~	~~16~~	~~1.5~~	~~0991282~~
Maxi Float w/Tube 16.9 x 24	TITAN	1703793	1703794	0991175	1702349	0991608	16	1.5	-
	FIRESTONE	1703836	1703837	0991175	1702349	0996657	16	1.5	-
	~~VALLEY V-GRIP~~	~~1704308~~	~~1704309~~	~~0991175~~	~~1704301~~	~~0980322~~	~~16~~	~~1.5~~	-
Maxi Float Turf Tubeless 16.9 x 24	TITAN	1703370	1703370	-	1702349	0992785	16	1.5	0991282
Maxi Float Turf w/Tube 16.9 x 24	TITAN	1703887	1703887	0991175	1702349	0992785	16	1.5	-
6-Ply Tubeless 18.4 x 26	FIRESTONE	1704019	1704020	-	1704018	0991531	16	1.61	0991282
6-Ply w/Tube 18.4 x 26	FIRESTONE	1704136	1704137	0991566	1704018	0991531	16	1.61	-
6-Ply Radial Tubeless 18.4 x 26	FIRESTONE	1704209	1704208	-	1704018	0997474	10	1.61	0992182
6-Ply Radial w/Tube 18.4 x 26	FIRESTONE	1704133	1704134	0991566	1704018	0997474	10	1.61	-
6-Ply Turf Tubeless 18.4 x 26	FIRESTONE	1704049	1704049	-	1704018	0996671	16	1.61	0991282
6-Ply Turf w/Tube 18.4 x 26	FIRESTONE	1704135	1704135	0991566	1704018	0996671	16	1.61	-

NOTE: Tire Brands may NOT be mixed on a Drive Unit.
*** Pressure may be decreased to 16 psi for flotation.**

[1] Effective November 2005.
Not Used for Cart.

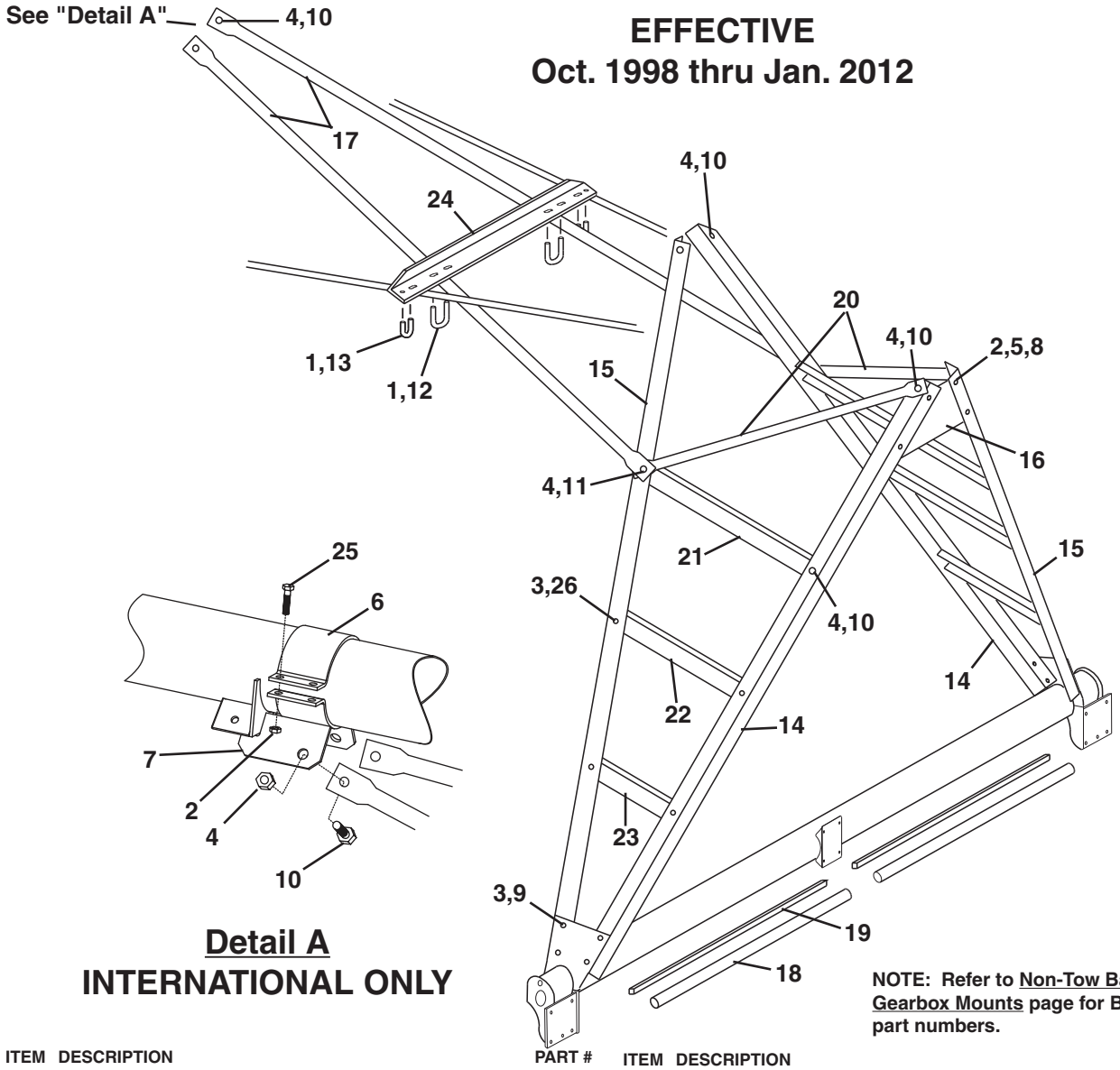
International ONLY.

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ITEM	DESCRIPTION	PART #
1	Non-Tow Basebeam Standard Profile	1780995
2	Non-Tow Basebeam Low Profile	1781000
3	Non-Tow Basebeam High Profile	1781001
4	Non-Tow Basebeam Ultra High Profile	9360189
5	1/2" x 1-1/4" Cap Screw	0161027
6	1/2" Flat Washer	0142025

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EFFECTIVE
Oct. 1998 thru Jan. 2012

Detail A
INTERNATIONAL ONLY

NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

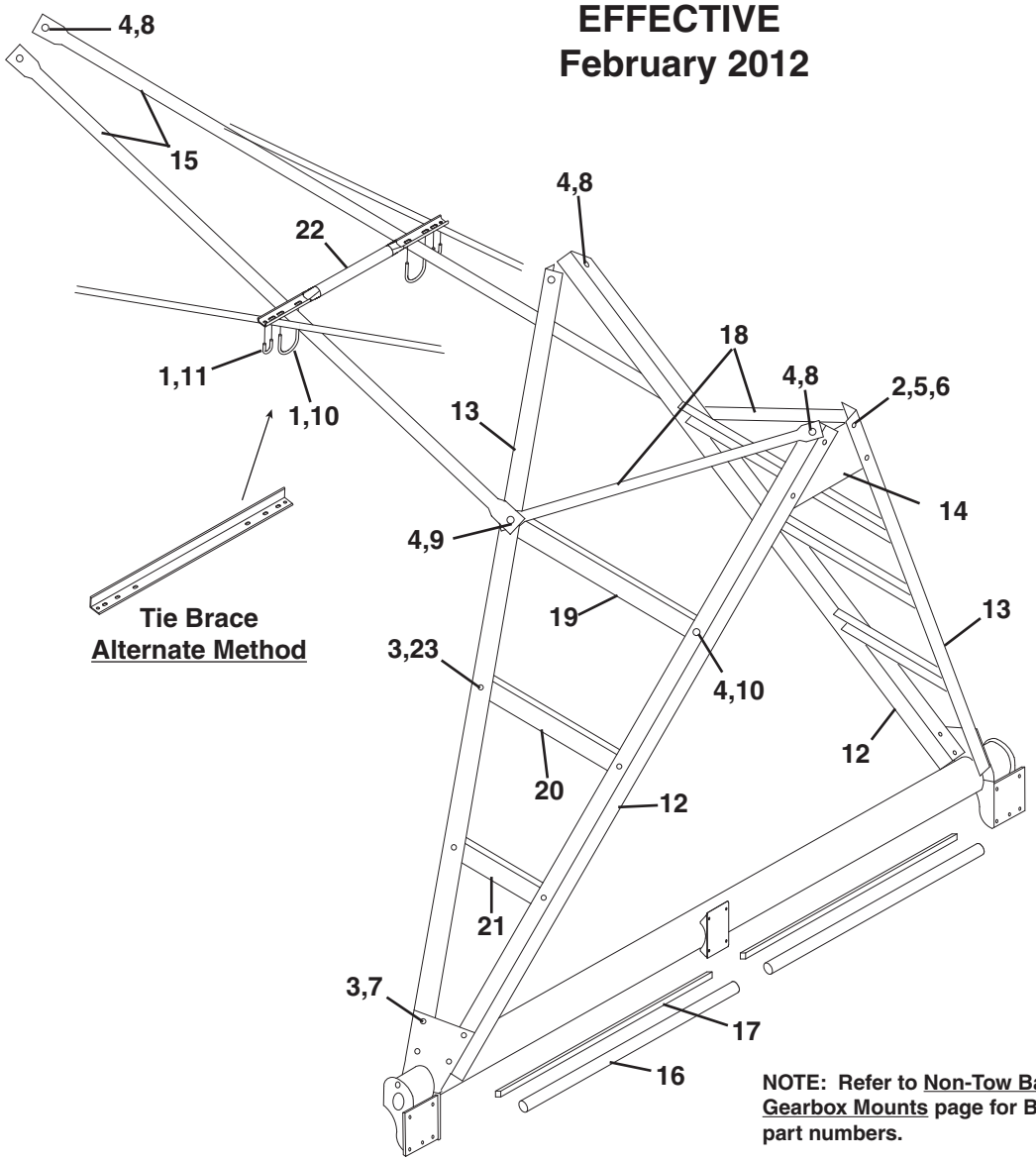
ITEM	DESCRIPTION	PART #
1	3/8" Flange Nut	0134055
2	1/2" Lock Nut	0133005
3	5/8" Lock Nut	0133010
4	3/4" Lock Nut	0133011
5	1/2" Flat Washer	0142025
6	5" Clamp - 4" Wide	*** . 9360921
	6-5/8" Clamp - 4" Wide	1700622
	8-5/8" Clamp - 4" Wide	9330002
7	5" Tower Support Bracket	*** . 9360929
	6-5/8" Tower Support Bracket	9360724
	8-5/8" Tower Support Bracket	9360725
8	1/2" x 1-1/4" Cap Screw	0161027
9	5/8" x 1-3/4" Cap Screw	0161088
10	3/4" x 1-3/4" Cap Screw	0161139
11	3/4" x 2-1/2" Cap Screw	0161159
12	3/8" x 4" x 3" U-Bolt	0175005
13	3/8" x 1-3/4" x .94" U-Bolt	0176035
14	Drive Unit Leg-Right Hand	9360827
	Drive Unit Leg-R.H. (5" & 6" Dia.)	*** . 9361198
15	Drive Unit Leg-Left Hand - I.D. Notch @ end	9360828
	Drive Unit Leg-L.H. (5" & 6" Dia.) I.D. Notch @ end	*** . 9361199
16	Drive Unit - Reinforcing Plate	1780400
17	Pipe Tower Support - Model 8000 Spans	9360071
	Pipe Tower Sup. - 109'[33.22m] & 128'[39.01m]-10" Sp	1780420
	Pipe Tower Support - Model 8120 Spans	9360722

ITEM	DESCRIPTION	PART #
18	Drive Shaft Shield - Standard Profile	** . 0992715
19	7/8" Square Drive Shaft-Standard Profile	** . 9361713
20	Drive Unit Diagonal - Heavy Duty	** . 9361138
21	Upper Brace - Standard Profile	** . 1780327
	Uper Brace - Standard Profile (5")	*** . 9361239
22	Intermediate Brace - Standard Profile	** . 9360835
	Intermediate Brace - Standard Profile (5")	*** . 9361243
23	Lower Brace - Standard Profile	** . 9360834
	Lower Brace - Standard Profile (5")	*** . 9361240
24	Tie Brace	
	109' & 128' Spans-10" Dia. (46.72"[1186.7mm] Lg.)	1780341
	135' & 160' Sp.-6"& 6-5/8" Dia. (31.94"[811.3mm] Lg.)	9360078
	180' & 205' Sp.-6"& 6-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	135.2', 157.5 Exp-6-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	Model 8120 (36.81"[934.9mm] Lg.)	9360733
	Model 8120 (36.81"[934.9mm] Lg.)(5")	* . 9361270
25	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
26	5/8" x 1-1/4" Cap Screw	0161379

(*) - This item is for Model 8120 (5" Pipe Tower Support (9361246))
(**) - These items are located in KA09390
(***)- 5" Items for Model 8120.

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EFFECTIVE
February 2012



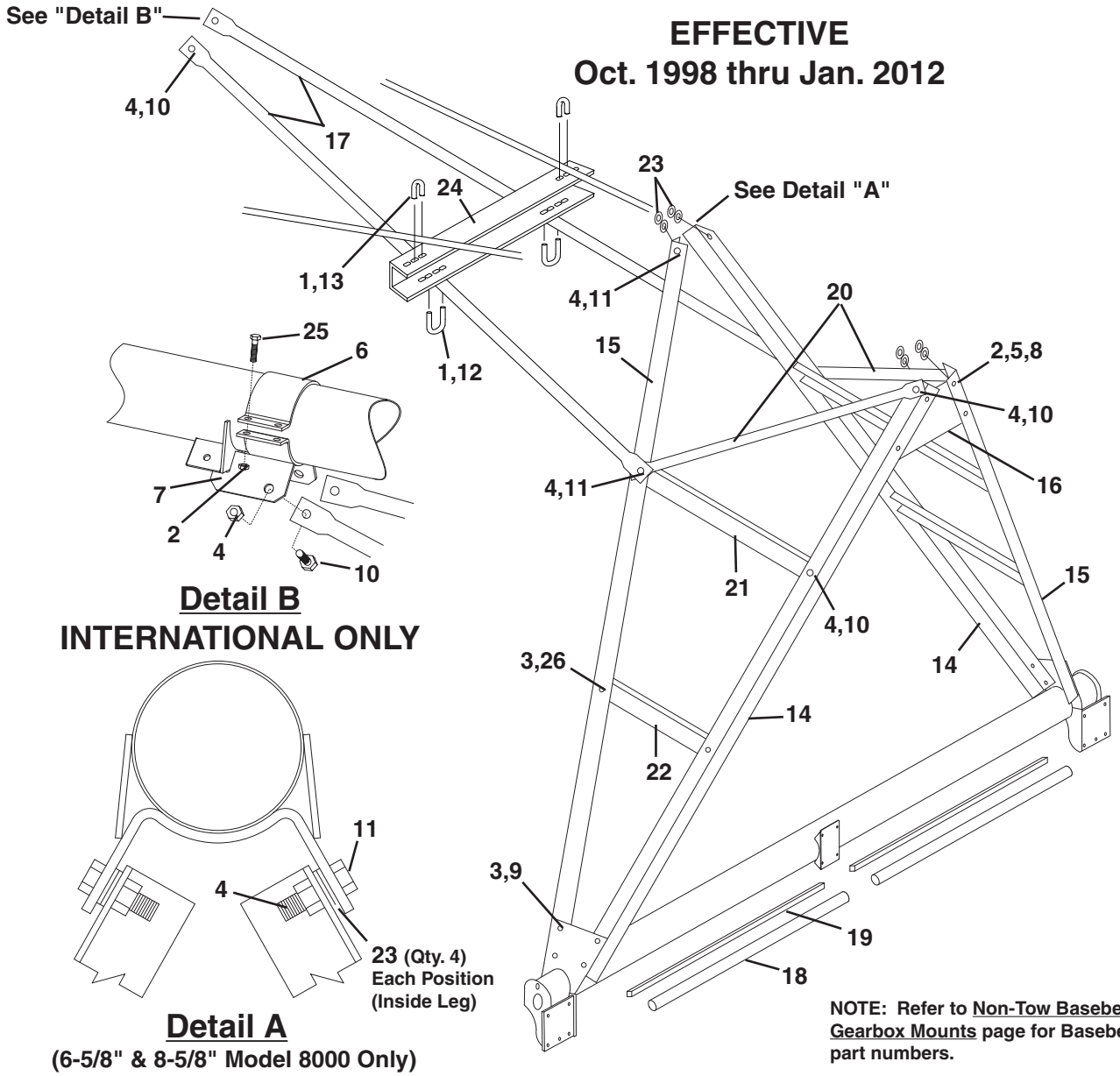
NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

ITEM	DESCRIPTION	PART #
1	3/8" Flange Nut	0134055
2	1/2" Lock Nut	0133005
3	5/8" Lock Nut	0133010
4	3/4" Lock Nut	0133011
5	1/2" Flat Washer	0142025
6	1/2" x 1-1/4" Cap Screw	0161027
7	5/8" x 1-3/4" Cap Screw	0161088
8	3/4" x 1-3/4" Cap Screw	0161139
9	3/4" x 2-1/2" Cap Screw	0161159
10	3/8" x 4" x 3" U-Bolt	0175005
11	3/8" x 1-3/4" x .94" U-Bolt	0176035
12	Drive Unit Leg-Right Hand	9360827
	Drive Unit Leg-R.H. (5" & 6" Dia.)	***. 9361198
13	Drive Unit Leg-Left Hand - I.D. Notch @ end	9360828
	Drive Unit Leg-L.H. (5" & 6" Dia.) I.D. Notch @ end	***. 9361199
14	Drive Unit - Reinforcing Plate	1780400
15	Pipe Tower Support - Model 8000 Spans	9360071
	Pipe Tower Sup. - 109'[33.22m] & 128'[39.01m]-10" Sp	1780420
	Pipe Tower Support - Model 8120 Spans	9360722

ITEM	DESCRIPTION	PART #
16	Drive Shaft Shield - Standard Profile	**. 0992715
17	7/8" Square Drive Shaft-Standard Profile	**. 9361713
18	Drive Unit Diagonal - Heavy Duty	**. 9361138
19	Upper Brace - Standard Profile	**. 1780327
	Uper Brace - Standard Profile (5")	***. 9361239
20	Intermediate Brace - Standard Profile	**. 9360835
	Intermediate Brace - Standard Profile (5")	***. 9361243
21	Lower Brace - Standard Profile	**. 9360834
	Lower Brace - Standard Profile (5")	***. 9361240
22	Tie Brace	
	135' & 160' Sp.-6"& 6-5/8" Dia. (31.94"[811.3mm] Lg.)	9360078
	180' & 205' Sp.-6"& 6-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	135.2', 157.5 Exp-6-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	115', 135', 140', 160' & 180' Sp.-8-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	Model 8120 (36.81"[934.9mm] Lg.)	9360733
23	5/8" x 1-1/4" Cap Screw	0161379

(**) - These items are located in KA09390
(***) - 5" Items for Model 8120.

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Detail B
INTERNATIONAL ONLY

Detail A
(6-5/8" & 8-5/8" Model 8000 Only)

NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

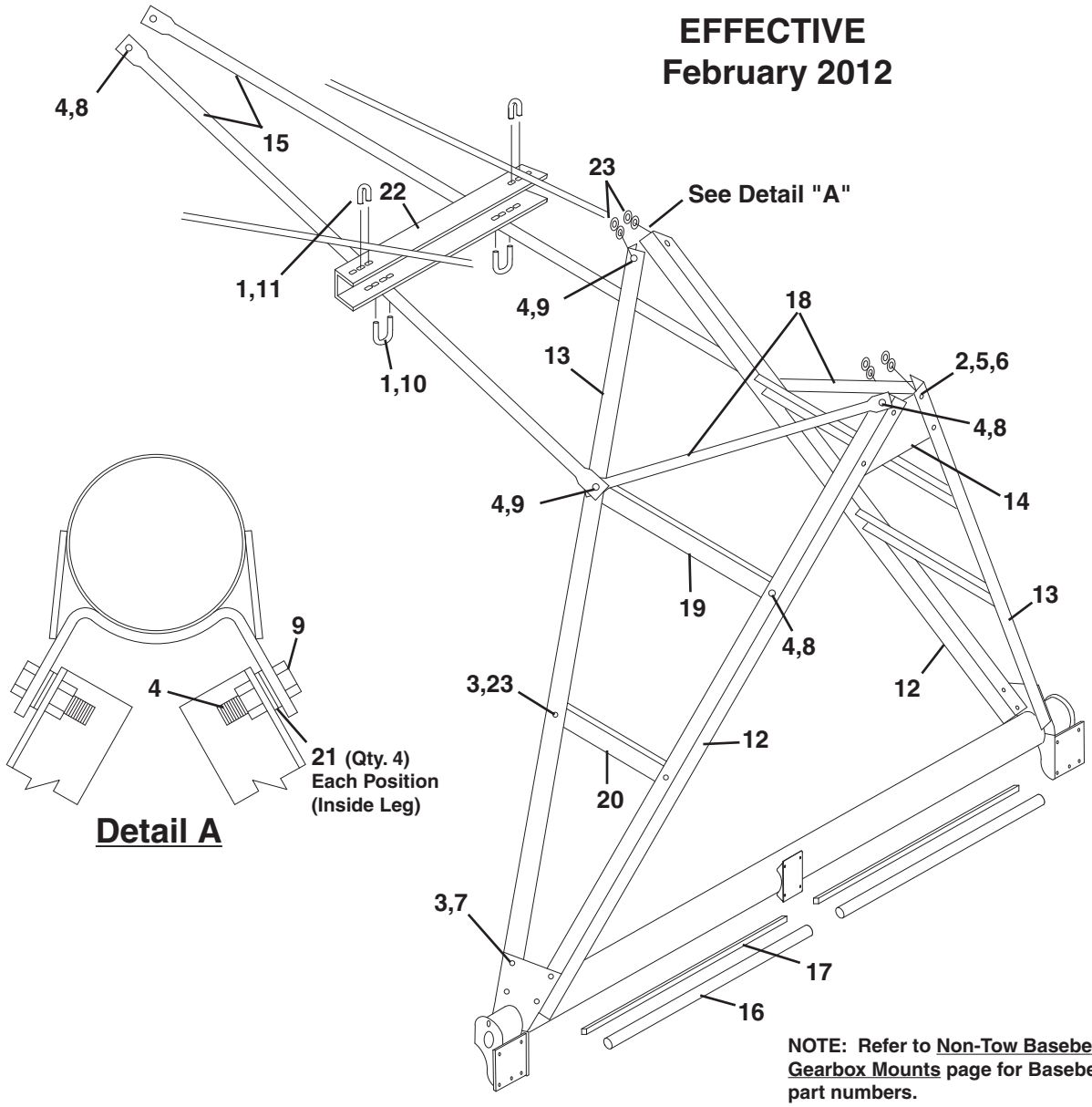
ITEM	DESCRIPTION	PART #
1	3/8" Flange Nut	0134055
2	1/2" Lock Nut	0133005
3	5/8" Lock Nut	0133010
4	3/4" Lock Nut	0133011
5	1/2" Flat Washer	0142025
6	5" Clamp - 4" Wide	**.9360921
	6-5/8" Clamp - 4" Wide	1700622
	8-5/8" Clamp - 4" Wide	9330002
7	5" Tower Support Bracket	**.9360929
	6-5/8" Tower Support Bracket	9360724
	8-5/8" Tower Support Bracket	9360725
8	1/2" x 1-1/4" Cap Screw	0161027
9	5/8" x 1-3/4" Cap Screw	0161088
10	3/4" x 1-3/4" Cap Screw	0161139
11	3/4" x 2-1/2" Cap Screw	0161159
12	3/8" x 4" x 3" U-Bolt	0175005
13	3/8" x 1-3/4" x .94" U-Bolt	0176035
14	Drive Unit Leg-Right Hand	9360821
	Drive Unit Leg-Right Hand (5" & 6")	**.9361196
15	Drive Unit Leg-Left Hand - I.D. Notch @ end	9360822
	Drive Unit Leg-Left Hand (5" & 6")-I.D. Notch @ end	**.9361197
16	Drive Unit - Reinforcing Plate	1780620

ITEM	DESCRIPTION	PART #
17	Pipe Tower Support - Model 8000 Spans	9360071
	P.T. Sup. - 109'[33.22m] & 128'[39.01m] - 10" Sp.	1780420
	Pipe Tower Support - Model 8120 Spans	9360722
18	Drive Shaft Shield - Low Profile	*.0992716
19	7/8" Square Drive Shaft-Low Profile	*.1702258
20	Drive Unit Diagonal - Low Profile	*.1732383
21	Upper Brace - Low Profile	*.9360173
	Upper Brace - Low Profile (5")	**.9361268
22	Lower Brace - Low Profile	*.9360833
	Lower Brace - Low Profile (5")	**.9361267
23	3/4" Flat Washer	0142021
24	Tie Brace	
	109'[33.22m] & 128'[39.01m] Spans-10" Dia. (42.12"[1069.8mm] Lg.)	1780633
	6", 6-5/8" & 8-5/8" Dia. (33.06"[839.7mm] Lg.)	9360174
25	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
26	5/8" x 1-1/4" Cap Screw	0161379

(*)- These items are located in KA09339.
(**)- 5" Items for Model 8120.

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EFFECTIVE
February 2012



Detail A

NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

ITEM	DESCRIPTION	PART #
1	3/8" Flange Nut	0134055
2	1/2" Lock Nut	0133005
3	5/8" Lock Nut	0133010
4	3/4" Lock Nut	0133011
5	1/2" Flat Washer	0142025
6	1/2" x 1-1/4" Cap Screw	0161027
7	5/8" x 1-3/4" Cap Screw	0161088
8	3/4" x 1-3/4" Cap Screw	0161139
9	3/4" x 2-1/2" Cap Screw	0161159
10	3/8" x 4" x 3" U-Bolt	0175005
11	3/8" x 1-3/4" x .94" U-Bolt	0176035
12	Drive Unit Leg-Right Hand	9360821
	Drive Unit Leg-Right Hand (5" & 6")	**.9361196
13	Drive Unit Leg-Left Hand - I.D. Notch @ end	9360822
	Drive Unit Leg-Left Hand (5" & 6")-I.D. Notch @ end	**.9361197
14	Drive Unit - Reinforcing Plate	1780620
15	Pipe Tower Support - Model 8000 Spans	9360071
	P. T. Sup. - 109'[33.22m] & 128'[39.01m] - 10" Sp.	1780420
	Pipe Tower Support - Model 8120 Spans	9360722

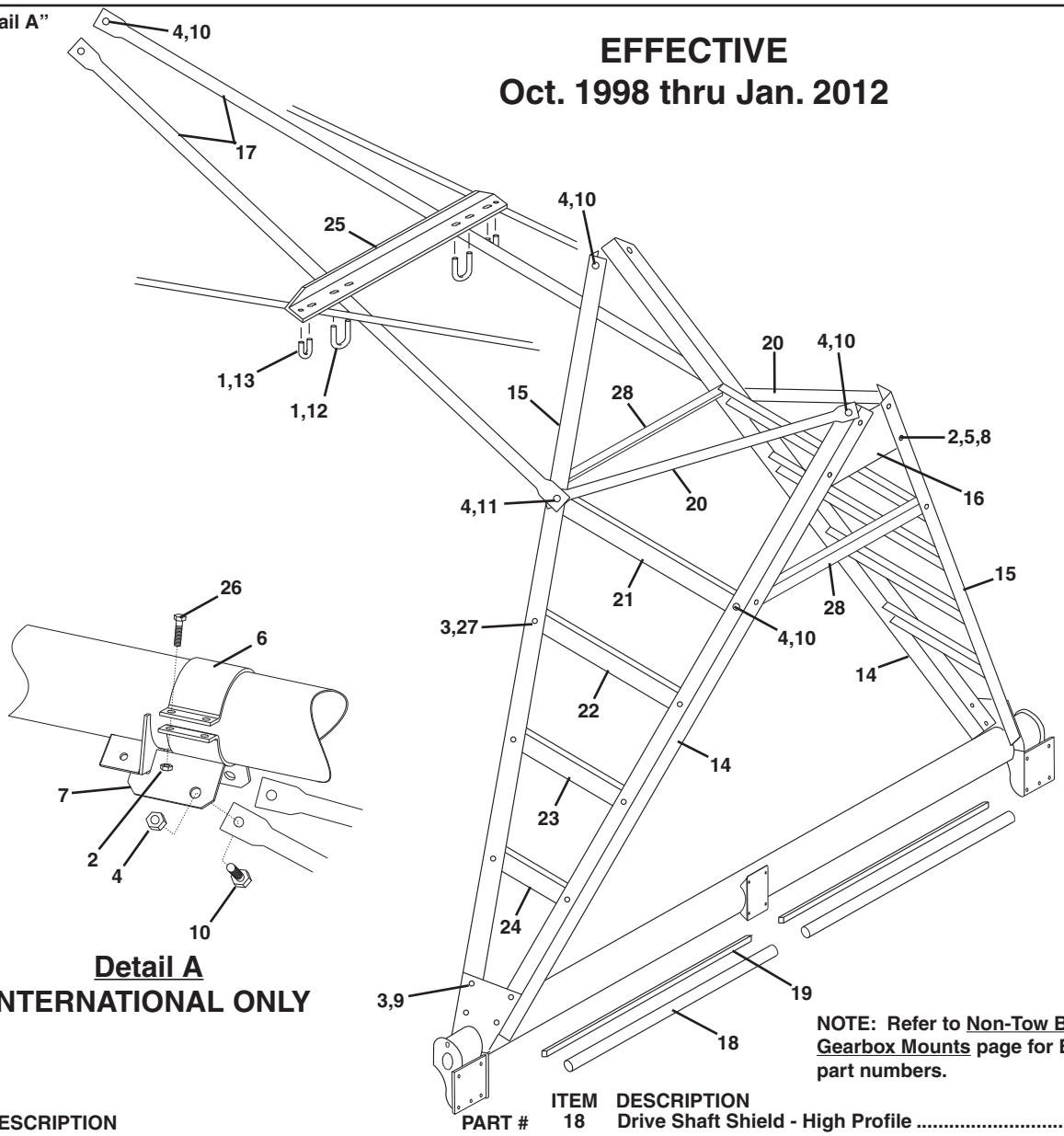
ITEM	DESCRIPTION	PART #
16	Drive Shaft Shield - Low Profile	*.0992716
17	7/8" Square Drive Shaft-Low Profile	*.1702258
18	Drive Unit Diagonal - Low Profile	*.1732383
19	Upper Brace - Low Profile	*.9360173
	Upper Brace - Low Profile (5")	**.9361268
20	Lower Brace - Low Profile	*.9360833
	Lower Brace - Low Profile (5")	**.9361267
21	3/4" Flat Washer	0142021
22	Tie Brace	
	109'[33.22m] & 128'[39.01m] Spans-10" Dia. (42.12"[1069.8mm] Lg.)	1780633
	6", 6-5/8" & 8-5/8" Dia. (33.06"[839.7mm] Lg.)	9360174
23	5/8" x 1-1/4" Cap Screw	0161379

(*)- These items are located in KA09339.
(**)- 5" Items for Model 8120.

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See "Detail A"

EFFECTIVE
Oct. 1998 thru Jan. 2012



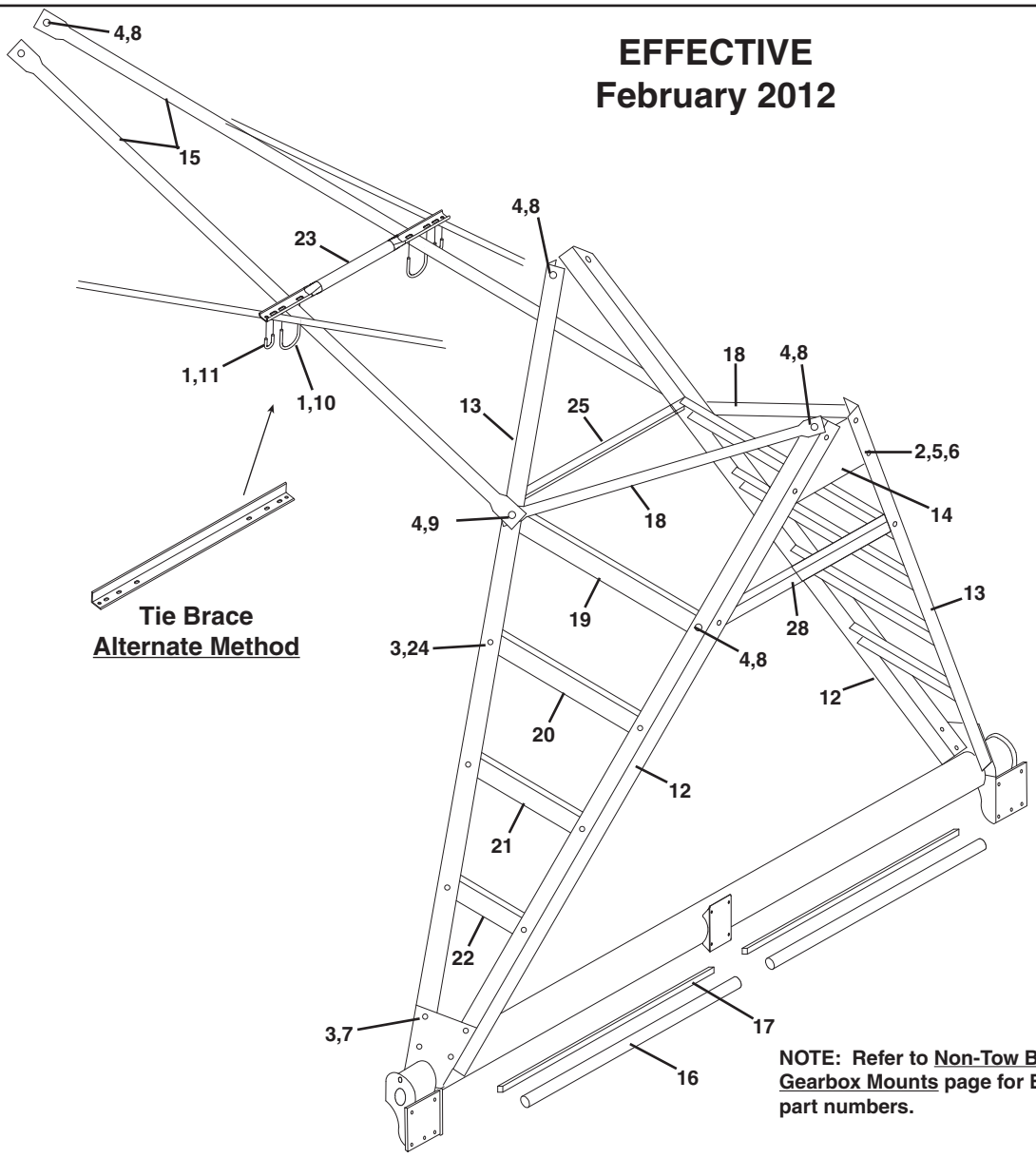
Detail A
INTERNATIONAL ONLY

NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

ITEM	DESCRIPTION	PART #
1	3/8" Flange Nut	0134055
2	1/2" Lock Nut	0133005
3	5/8" Lock Nut	0133010
4	3/4" Lock Nut	0133011
5	1/2" Flat Washer	0142025
6	6-5/8" Clamp - 4" Wide	1700622
	8-5/8" Clamp - 4" Wide	9330002
7	6-5/8" Tower Support Bracket	9360724
	8-5/8" Tower Support Bracket	9360725
8	1/2" x 1-1/4" Cap Screw	0161027
9	5/8" x 1-3/4" Cap Screw	0161088
10	3/4" x 1-3/4" Cap Screw	0161139
11	3/4" x 2-1/2" Cap Screw	0161159
12	3/8" x 4" x 3" U-Bolt	0175005
13	3/8" x 1-3/4" x .94" U-Bolt	0176035
14	Drive Unit Leg-Right Hand	9360823
15	Drive Unit Leg-Left Hand - I.D. Notch @ end	9360824
16	Drive Unit - Reinforcing Plate	1780400
17	Pipe Tower Support - Model 8000 Spans	9360071
	P.T. Sup.-109'[33.22m]&128'[39.01m]-10" Spans	1780420
	Pipe Tower Support - Model 8120 Spans	9360722
18	Drive Shaft Shield - High Profile	** 0992717
19	7/8" Square Drive Shaft - High Profile	** 9361714
20	Drive Unit Diagonal - High Profile	** 1780818
21	Upper Brace - High Profile	** 1780819
22	Upper Intermediate Brace - High Profile	** 9360841
23	Lower Intermediate Brace - High Profile	** 9360842
24	Lower Brace - High Profile	** 9360843
25	Tie Brace	
	109'[33.22m] & 128'[39.01m] Spans-10" Dia. (46.72"[1186.7mm] Lg.)	1780341
	135'[41.15m] & 160'[48.77m] Spans-6"& 6-5/8" Dia. (31.94"[811.3mm] Lg.)	9360078
	180'[54.86m] & 205'[62.48m] Spans-6"& 6-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	135.2'[41.21m] & 157.5'[48.01m] Exp.-6"&6-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	Model 8120 (36.81"[934.9mm] Lg.)	9360733
26	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
27	5/8" x 1-1/4" Cap Screw	0161379
28	Truss Angle Spreader (60.12"[1527.0mm] Lg.)	9360188
	(**) - These items are located in KA09342.	

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EFFECTIVE
February 2012



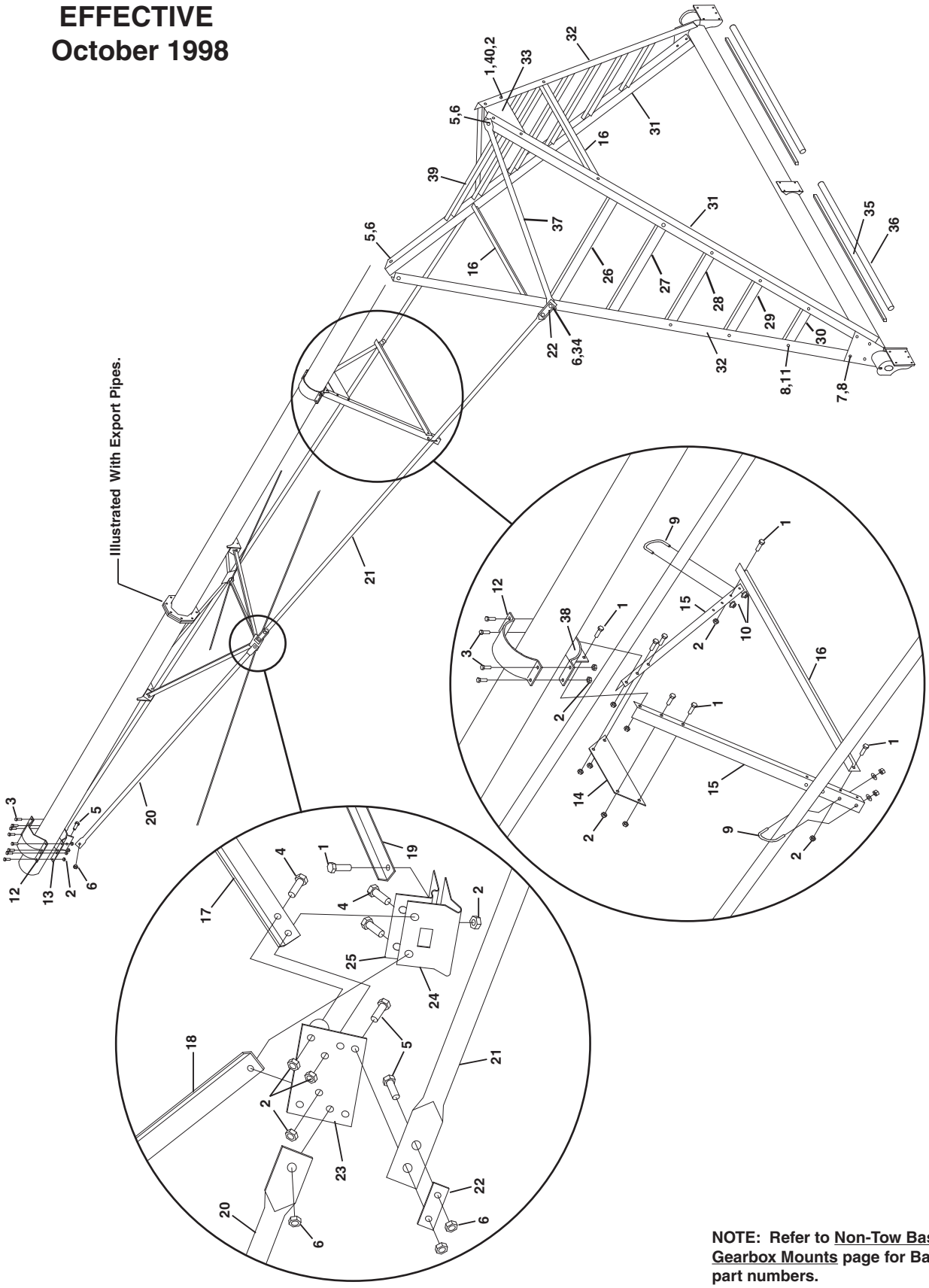
NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

ITEM	DESCRIPTION	PART #
1	3/8" Flange Nut	0134055
2	1/2" Lock Nut	0133005
3	5/8" Lock Nut	0133010
4	3/4" Lock Nut	0133011
5	1/2" Flat Washer	0142025
6	1/2" x 1-1/4" Cap Screw	0161027
7	5/8" x 1-3/4" Cap Screw	0161088
8	3/4" x 1-3/4" Cap Screw	0161139
9	3/4" x 2-1/2" Cap Screw	0161159
10	3/8" x 4" x 3" U-Bolt	0175005
11	3/8" x 1-3/4" x .94" U-Bolt	0176035
12	Drive Unit Leg-Right Hand	9360823
13	Drive Unit Leg-Left Hand - I.D. Notch @ end	9360824
14	Drive Unit - Reinforcing Plate	1780400
15	Pipe Tower Support - Model 8000 Spans	9360071
	P.T. Sup.-109'[33.22m]&128'[39.01m]-10" Spans	1780420
	Pipe Tower Support - Model 8120 Spans	9360722
16	Drive Shaft Shield - High Profile	**.0992717
17	7/8" Square Drive Shaft - High Profile	**.9361714
18	Drive Unit Diagonal - High Profile	**.1780818
19	Upper Brace - High Profile	**.1780819
20	Upper Intermediate Brace - High Profile	**.9360841
21	Lower Intermediate Brace - High Profile	**.9360842
22	Lower Brace - High Profile	**.9360843
23	Tie Brace	
	135'[41.15m] & 160'[48.77m] Spans-6"& 6-5/8" Dia. (31.94"[811.3mm] Lg.)	9360078
	180'[54.86m] & 205'[62.48m] Spans-6"& 6-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	135.2'[41.21m] & 157.5'[48.01m] Exp.-6"&6-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	115'[35.05m], 135', 140'[42.67m], 160' & 180' Sp.-8-5/8" Dia. (34.81"[884.2mm] Lg.)	9360079
	Model 8120 (36.81"[934.9mm] Lg.)	9360733
24	5/8" x 1-1/4" Cap Screw	0161379
25	Truss Angle Spreader (60.12"[1527.0mm] Lg.)	9360188

(**) - These items are located in KA09342.

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EFFECTIVE
October 1998



NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

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ITEM	DESCRIPTION	PART #
1	1/2" x 1-1/4" Cap Screw	0161027
2	1/2" Lock Nut	0133005
3	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
4	1/2" x 3-1/2" Cap Screw	0161060
5	3/4" x 1-3/4" Cap Screw	0161139
6	3/4" Lock Nut	0133011
7	5/8" x 1-3/4" Cap Screw	0161088
8	5/8" Lock Nut	0133010
9	3/8" x 4" x 3" U-Bolt	0175005
10	3/8" Flange Nut	0134055
11	5/8" x 1-1/4" Cap Screw	0161379
12	6-5/8" Pipe Clamp	1700622
	8-5/8" Pipe Clamp	9330002
13	6-5/8" Half Clamp w/Ears	1781207
	8-5/8" Half Clamp w/Ears	9360194
14	Trapezoid Plate	9360187
15	Truss Diagonal, 53.74"[1365.0mm] Long	9332009
16	Angle Spreader, 60.12"[1527.0mm] Long	9360188
**17	Truss Diagonal w/I.D. Hole, 61.68"[1567.7mm] Long	9360052*
**18	Truss Diagonal, 58.81"[1493.8mm] Long	9360074
19	Truss Spreader, 52.25"[1327.2mm] Long	9360053
20	Tower Support, 15'-11.75"[487.1cm] Long	9360722
21	Tower Support, 18'-6.91"[566.2cm] Long	9332008
22	Reinforcement Plate	9332015
23	Support Plate	9332020
24	Outer Socket	9360069
25	Inner Socket	9360070
26	Upper Brace, 36.81"[935.0mm] Long	1780819
27	Upper Intermediate Brace, 31.46"[799.1mm] Long	9360837
28	Middle Brace, 26.20"[665.5mm] Long	9360838
29	Lower Intermediate Brace, 20.94"[531.9mm] Long	9360839
30	Lower Brace, 15.68"[398.3mm] Long	9360840
31	Drive Unit Leg, Right Hand	9360830
32	Drive Unit Leg, Left Hand	9360829
33	Drive Unit Reinforcing Plate	1780400
34	3/4" x 2-1/2" Cap Screw	0161159
35	Drive Shaft - .875" Sq. x 101.09"[2567.7mm] Long	9360178
36	Drive Shaft Shield	0994598
37	Drive Unit Diagonal	9360186
38	6-5/8" Truss Hanger	9360177
	8-5/8" Truss Hanger	9360193
39	Brace Ultra High Profile, 39.06"[992.1mm] Long	9360836
40	1/2" Flat Washer	0142025

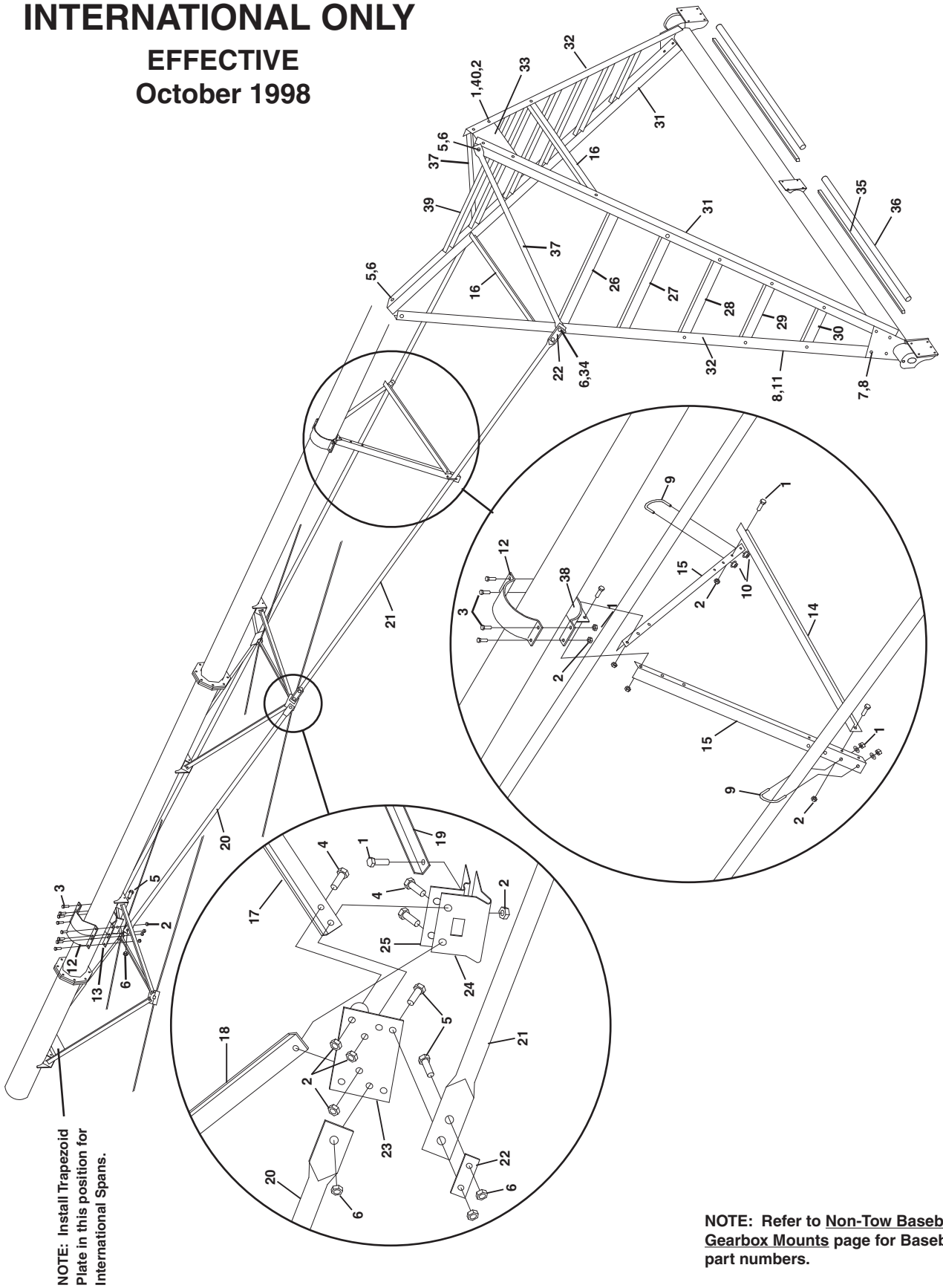
*** NOTE: Longer Diagonal has I.D. and is to be located away from Span Center.**

**** NOTE: Items #17 and #18 - Truss Diagonals are used for <u>ALL</u> span lengths located at First Span position: 115', 135', 140', 160', 180', 185' and 187'.**

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EFFECTIVE
October 1998



NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

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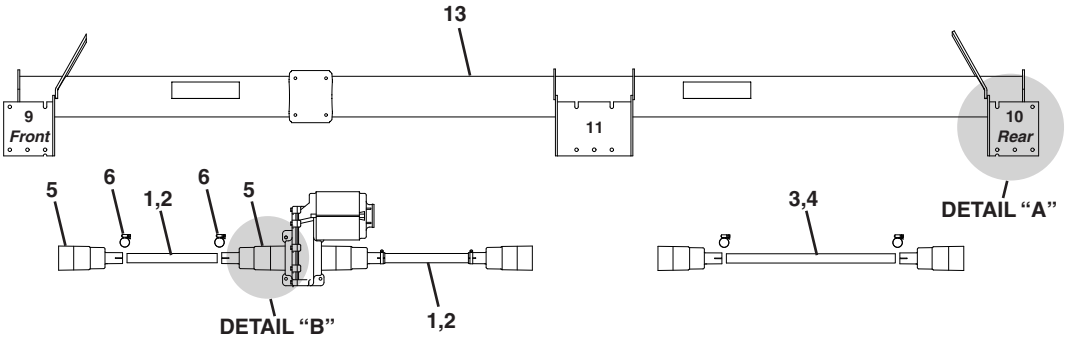
EFFECTIVE
October 1998

ITEM	DESCRIPTION	PART #
1	1/2" x 1-1/4" Cap Screw	0161027
2	1/2" Lock Nut	0133005
3	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
4	1/2" x 3-1/2" Cap Screw	0161060
5	3/4" x 1-3/4" Cap Screw	0161139
6	3/4" Lock Nut	0133011
7	5/8" x 1-3/4" Cap Screw	0161088
8	5/8" Lock Nut	0133010
9	3/8" x 4" x 3" U-Bolt	0175005
10	3/8" Flange Nut	0134055
11	5/8" 1-1/4" Cap Screw	0161379
12	6-5/8" Pipe Clamp	1700622
	8-5/8" Pipe Clamp	9330002
13	6-5/8" Half Clamp w/Ears	1781207
	8-5/8" Half Clamp w/Ears	9360194
14	Truss Diagonal w/I.D. Hole, 61.68"[1567.7mm] Long	9360052
15	Truss Diagonal, 53.74"[1365.0mm] Long	9332009
16	Angle Spreader, 60.12"[1527.0mm] Long	9360188
17	Truss Diagonal w/I.D. Hole, 63.36"[1609.4mm] Long (Model 8120 Spans)	9360735*
18	Truss Diagonal, 60.67"[1541.0mm] Long (Model 8120 Spans)	9360734
19	Truss Spreader, 56.00"[1422.4mm] Long (Model 8120 Spans)	9360736
20	Tower Support, 15'-11.75"[487.1cm] Long (Model 8120 Spans)	9360722
21	Tower Support, 19'-8.62"[601.0cm] Long (Model 8120 Spans)	9360748
22	Reinforcement Plate	9332015
23	Support Plate	9332020
24	Outer Socket	9360069
25	Inner Socket	9360070
26	Upper Brace, 36.81"[935.0mm] Long	1780819
27	Upper Intermediate Brace, 31.46"[799.1mm] Long	9360837
28	Middle Brace, 26.20"[665.5mm] Long	9360838
29	Lower Intermediate Brace, 20.94"[531.9mm] Long	9360839
30	Lower Brace, 15.68"[398.3mm] Long	9360840
31	Drive Unit Leg, Right Hand	9360830
32	Drive Unit Leg, Left Hand	9360829
33	Drive Unit Reinforcing Plate	1780400
34	3/4" x 2-1/2" Cap Screw	0161159
35	Drive Shaft - .875" Sq. x 101.09"[2567.7mm] Long	9360178
36	Drive Shaft Shield	0994598
37	Drive Unit Diagonal	9360186
38	6-5/8" Truss Hanger	9360177
	8-5/8" Truss Hanger	9360193
39	Brace Ultra High Profile, 39.06"[992.1mm] Long	9360836
40	1/2" Flat Washer	0142025

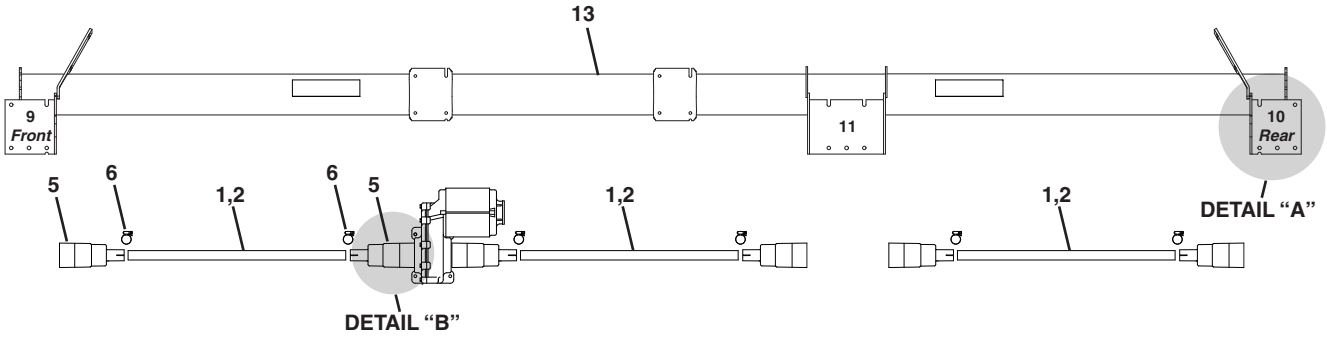
*** NOTE: Longer Diagonal has I.D. and is to be located away from Span Center.**

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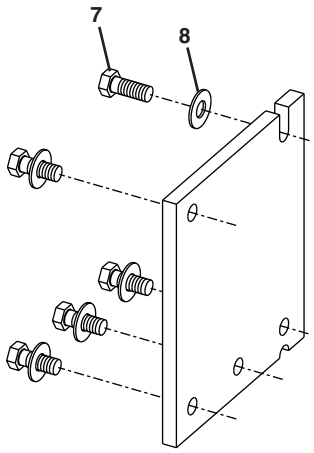


STANDARD PROFILE

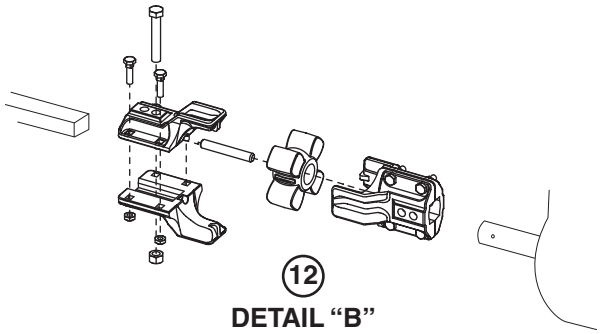


HIGH PROFILE

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DETAIL "A"
(Gearbox Installation)

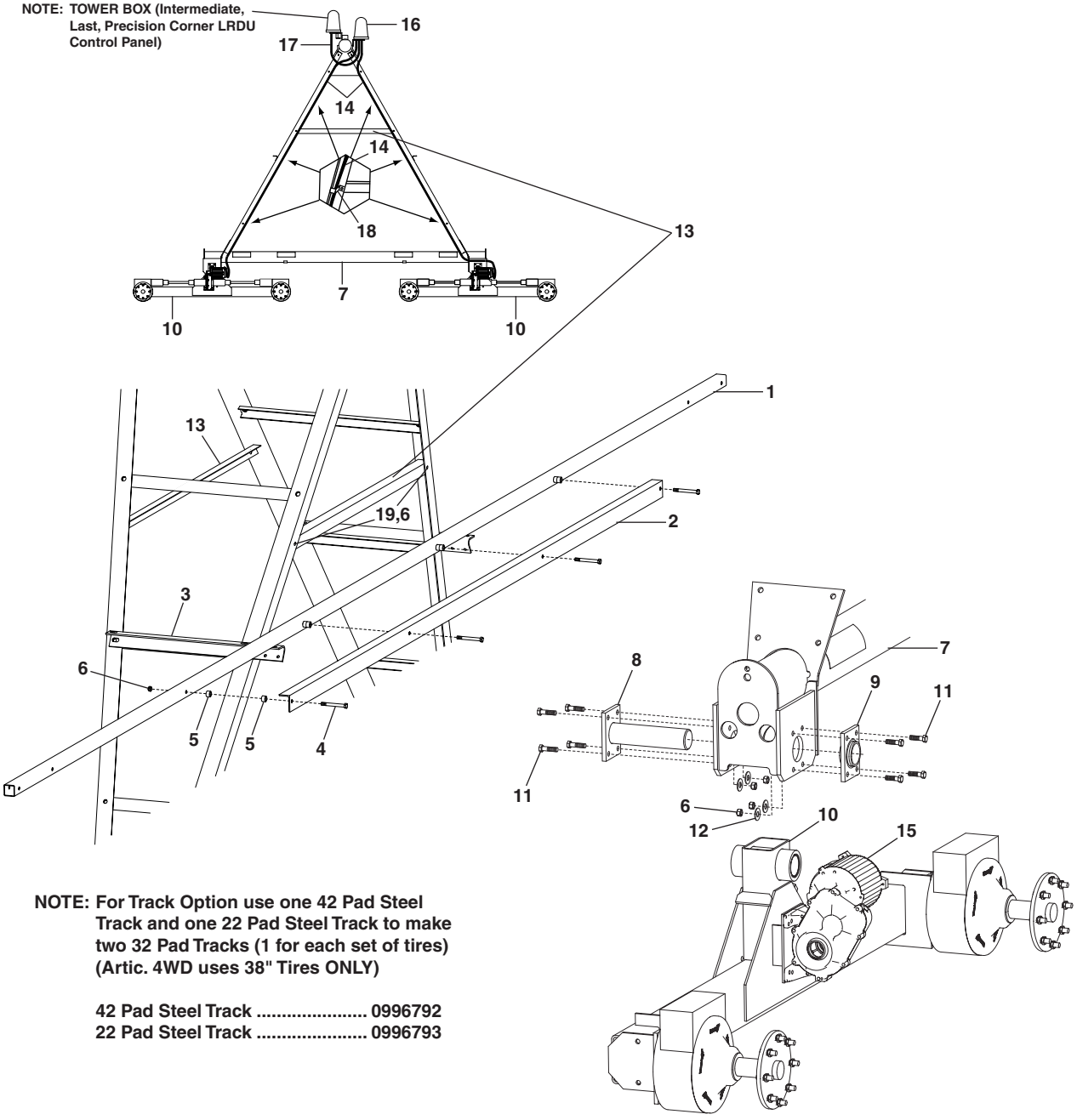


DETAIL "B"
Ultra Heavy Duty Flex Joint Kit
(refer to "Greaseless U-Joint" page in this section for Kit details.

ITEM	DESCRIPTION	PART #
1	3 Wheel Basebeam Drive Shaft - Standard Profile	9361659
	- High Profile	9364340
2	3 Wheel Basebeam Drive Shaft Shield - Standard Profile	9361658
	- High Profile	0998672
3	3 Wheel Basebeam Drive Shaft - Long	9361715
4	Drive Shaft Shield - Low Profile	0992716
5	U-Joint Shield - Long	1702614
6	Clamp, Stainless Steel	0271013
7	1/2" x 1-1/4" Cap Screw	0161027
8	1/2" Flat Washer	0142025
9	Front Non-Tow Gearbox - Standard	1701966
	Front Non-Tow Gearbox - Heavy Duty	1732144
10	Rear Non-Tow Gearbox - Standard	1701965
	Rear Non-Tow Gearbox - Heavy Duty	1732143
11	3 Wheel Gearbox - Ductile Worm - Double Input	1703321 *
	3 Wheel Gearbox - Steel Worm - Double Input - Bronze Gear - Heavy Duty	9363173
12	Ultra Heavy Duty Flex Joint Kit w/Rod - 7/8" Sq. x 1" Round (NonTow)	KA01300
13	3 Wheel Basebeam Assembly - Standard Profile	9361652
	- High Profile	9364341
	COMPLETE Drive Unit Update Pkg. - Standard Profile	0000F31
	COMPLETE Drive Unit Update Pkg. - High Profile	0000J52
	Drive Unit Diagonal Tube (not shown) (refer to Drive Unit section in this manual).	9361138

*NOTE: For detailed parts breakdown of Double Input Gearbox refer to Double Input Gearbox - Non-Towable page earlier in this section.

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NOTE: For Track Option use one 42 Pad Steel Track and one 22 Pad Steel Track to make two 32 Pad Tracks (1 for each set of tires) (Artic. 4WD uses 38" Tires ONLY)

42 Pad Steel Track 0996792
22 Pad Steel Track 0996793

ITEM	DESCRIPTION	PART #
1	Mounting Beam	9362453
2	Mounting Beam Support Angle	9362640
3	End-of-Field Stop Mount	9360846
4	1/2" x 4-1/2" Cap Screw	0161110
5	9/16" x 5/8" Spacer	0192074
6	1/2" Lock Nut	0133005
7	Basebeam Assm.	9362086
8	Pivot Pin Assm.	9362145
9	Pivot Pin Bearing Assm	9362165
10	Drive Beam Assm. w/ Bearing	9362530
11	1/2" x 1-3/4" Cap Screw	0161029
12	1/2" Flat Washer	0142025
13	Truss Angle Spreader	9360188
14	Motor Cable - 4 Cond. 14 Ga.	1812008
15	Motor/Gearbox Assm. - 34 RPM	03E1554
	Motor/Gearbox Assm. - 68 RPM	03E1558
	Gearbox Assm. , Inverter - 34 RPM	03E2227
16	Overload Tower Box (480v 3-Phase Motors)	1814490
	Fused Tower Box (Inverter Rated Motors)	1814554
17	Cable, 6 Cond. 14 Ga. (480v 3-Phase Motors)	9311270
	Cable, 4 Cond. 14 Ga. (Inverter Rated Motors)	1813774
18	Keeper - Sealtite	1700157
19	1/2" x 1-1/4" Cap Screw	0161027

Heavy Duty Standard Profile Bundle (1 ea/ Drive Unit) **..KA09690**

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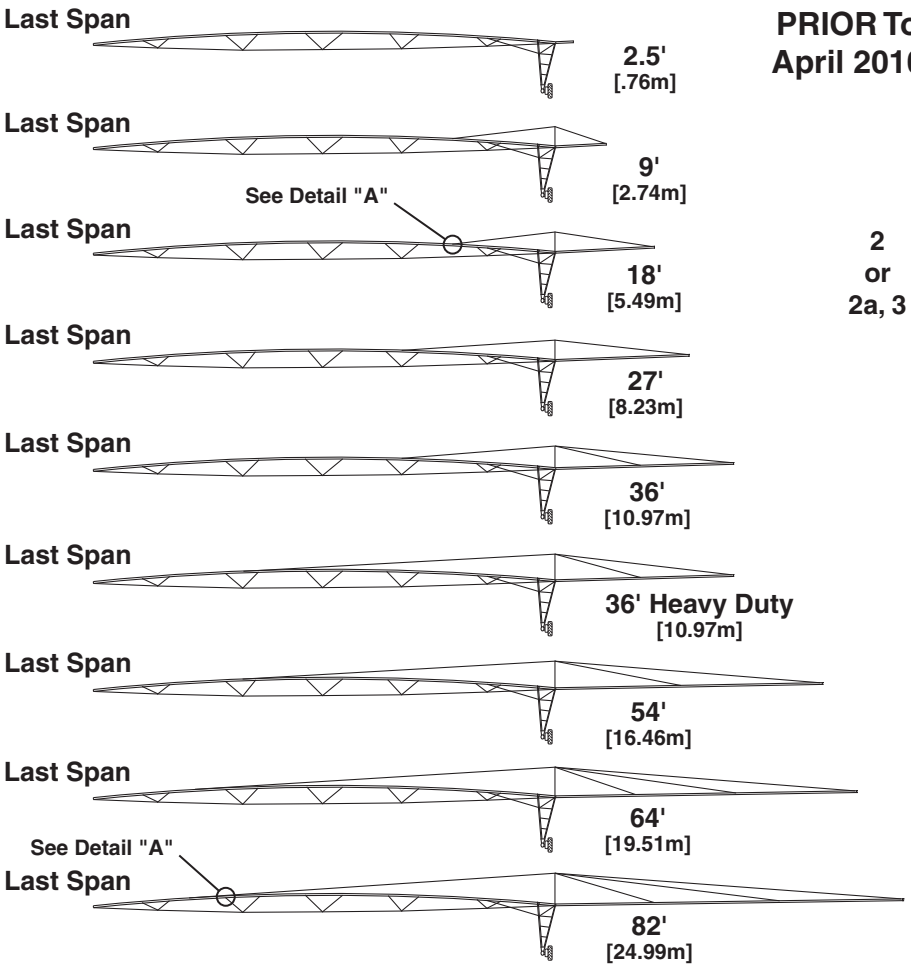
OVERHANGS

Rainger Linear - Effective 6/06

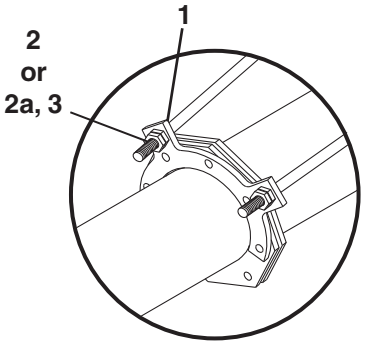
Description	Rev. #	Pg. #
6-5/8" - MODEL 8000		
Back Cables & Accessories - PRIOR to April 10	04-10	14-3
Back Cables & Accessories - EFFECTIVE April 10	07-14	14-4
Overhang Cable Chart	02-18	14-5
2.5'[.76m] Overhang	01-09	14-6
9'[2.74m] Overhang	07-17	14-7
18'[5.49m] Overhang	07-17	14-8
27'[8.23m] Overhang	07-17	14-9
36'[10.97m] Overhang	07-17	14-10
36'[10.97m] Heavy Duty	01-14	14-11
45'[13.72m] Overhang	07-14	14-12
54'[16.46m] Overhang	01-14	14-13
64'[19.50m] Overhang	01-14	14-14
73'[22.25m] Overhang	07-14	14-15
82'[24.99m] Overhang	01-14	14-16
Sign Mounting	07-18	14-17

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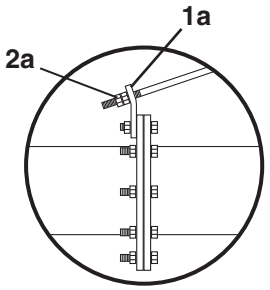
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PRIOR To April 2010



Detail "A"



5" Cable Mount

NOTE: Effective May 98, 9/32" Cables are required for long overhangs made with 6-5/8" Pipe.
NOTE: Eff Jun 04, 5/16" Cables are required for 82' Overhangs.

Overhang Length (ft)	Last Span Length (ft)	(m)	1/4" Back Cable	Overall Cable Length (in)	(cm)	Heavy Duty Back Cable		Overall Length (in)	(cm)
	2.5'	All	--	--	--				
9',18',27'	Domestic & Exp.		9360084	501.12"	1272.8	5/16" - 82'	9/32"		
9',18',27'	*International		9360713	472.50"	1200.2				
36'	Domestic & Exp.		--	--	--	--	9362398	501.12"	1272.8
36'	*International		--	--	--	--	9362399	472.50"	1200.2
36'HD,54',64'	115'	35.1	9360200	815.50"	2071.4	9360746	9361987	816.00"	2072.6
36'HD,54',64'	123'	37.5	--	--	--	9360958	9361988	940.00"	2387.6
36'HD,54',64'	135'	41.1	9360025	1051.12"	2669.8	9360745	9361989	1051.77"	2671.5
36'HD,54',64'	140'	42.7	9360201	1107.50"	2813.1	9360744	9361990	1108.18"	2814.8
36'HD,54',64'	*142'	43.3	--	--		9360714	9361998	1162.72"	2953.3
36'HD,54',64'	157.5'	48.0	9360026	1316.62"	3344.2	9360743	9361991	1317.43"	3346.3
36'HD,54',64'	160'	48.8	9360027	1345.12"	3416.6	9360742	9361992	1345.95"	3418.7
36'HD,54',64'	*161'	49.1	--	--	--	9360715	9361999	1386.45"	3521.6
36'HD,54',64'	180'	54.9	9360028	1583.12"	4021.1	9360741	9361993	1584.11"	4023.6
36'HD,54',64'	*180'	54.9	--	--		9360716	9362000	1610.80"	4091.4
36'HD,54',64'	185'	56.4	9360029	1640.12"	4165.9	9360740	9361994	1641.13"	4168.5
36'HD,54',64'	187'	57.0	9360030	1662.12"	4221.8	9360739	9361995	1663.15"	4224.4

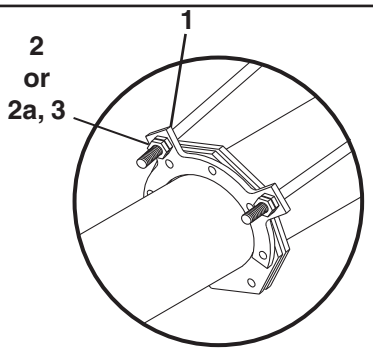
*** NOTE: International Spans**

Prior to May 1998

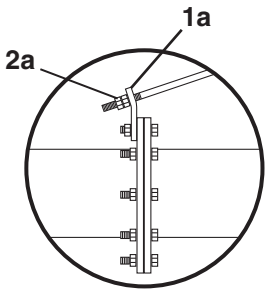
ITEM	DESCRIPTION	PART #
1	Cable Mounting Ear Bracket (6-5/8" Pipe w/82' O/H)	9361357
1a	Cable Mounting Ear Bracket (5" Pipe)	1700890
2	7/8" Hex Nut	0131005
2a	3/4" Jam Nut	0131008
3	3/4" Flat Washer	0142021

NOTE: 9/32" or 5/16" Cables can be used in place of 1/4" Cables if replaced in pairs.

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Detail "A"



5" Cable Mount

EFFECTIVE
April 2010

ITEM	DESCRIPTION	PART #
1	Cable Mounting Ear Bracket (6-5/8" Pipe w/82' O/H)	9361357
1a	Cable Mounting Ear Bracket (5" Pipe)	1700890
2	7/8" Hex Nut	0131005
2a	3/4" Jam Nut	0131008
3	3/4" Flat Washer	0142021

SHORT OVERHANGS

Overhang Length (ft)	Model	1/4" Back Cable	Overall Cable Length (in)	(cm)	Heavy Duty Back Cable	Overall Length (in)	(cm)
9',18',27'	8000 & 800E	9360084	501.12"	1272.8	9/32"		
9',18',27'	8120	9360713	472.50"	1200.2			
36'	8000 & 800E	-	-	-	9362398	501.12"	1272.8
36'	8120	-	-	-	9362399	472.50"	1200.2

NOTE: For PolySpan & 5", Overhang is 1 ft. longer than shown in chart because of Stub used.

LONG OVERHANGS

Last Span Length (ft)	(m)	Overhang Length 36'HD,45',54',64',74'* 9/32" Cable	73', 82' 5/16" Cable	Overall Cable Assm. Length (ft-in)	(m)	Model
115'	35.1	9361987	9360746	68' - 0.00"	20.7	8000 & 7000
123'	37.5	9361988	9360958	78' - 4.00"	23.9	8120
135'	41.1	9361989	9360745	87' - 7.77"	26.7	8000, 800E, 7000, & 5000
140'	42.7	9361990	9360744	92' - 4.18"	28.1	8000 & 7000
142'	43.3	9361998	9360714	96' - 10.72"	29.5	8120, 5120
157.5'	48.0	9361991	9360743	109' - 9.43"	33.5	800E & 5000
160'	48.8	9361992	9360742	112' - 1.95"	34.2	8000 & 7000
161'	49.1	9361999	9360715	115' - 6.45"	35.2	8120, 5120
180'	54.9	9361993	9360741	132' - 0.11"	40.2	8000, 800E, 7000, & 5000
180'	54.9	9362000	9360716	134' - 2.80"	40.9	8120, 5120
185'	56.4	9361994	9360740	136' - 9.13"	41.7	8000 & 7000
187'	57.0	9361995	9360739	138' - 7.15"	42.2	8000 & 7000
199'	60.7	9362001	9360717	152' - 11.50"	46.6	8120, 5120
202.5'	61.7	9361996	9360738	154' - 3.26"	47.0	800E & 5000
205'	62.5	9361997	9360737	156' - 7.79"	47.7	8000

NOTE: For PolySpan & 5", Overhang is 1 ft. longer than shown in chart because of Stub used.

NOTE: 9/32" or 5/16" Cables can be used in place of 1/4" Cables if replaced in pairs.

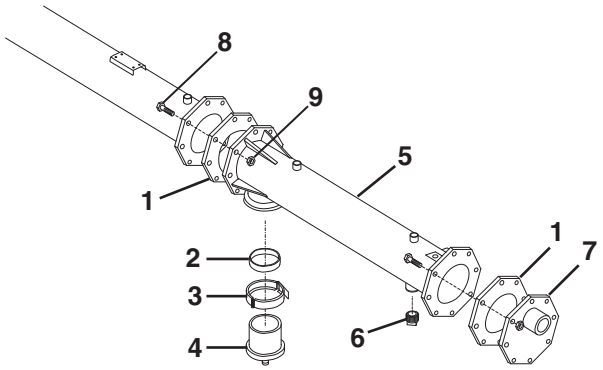
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MODEL 8000 OVERHANG CABLE CHART

Overhang Length	Inner Cable	Middle Cable	Outer Cable	Down Cable	Spreader Cable
2.5' [.76m]	—	—	—	—	—
9' [2.74m]	—	—	9360316 12'-3.00" [3.73m]	—	—
18' [5.49m]	1780200 20'-10.75" [6.37m]	—	—	—	—
27' [8.23m]	1780201 30'-1.25" [9.18m]	—	—	—	—
36' [10.97m]	1780200 20'-10.75" [6.37m]	—	1780202 38'-7.75" [11.78m]	9360033 8'-9.31" [2.67m]	—
36' HEAVY DUTY [10.97m]	9360035 25'-0.25" [7.63m]	—	9360036 40'-11.62" [12.49m]	1780228 (STD & HI) 20'-2" [6.15m] 1780637 (LOW) 17'-2.81" [5.25m]	1700976 21'-11.75" [6.70m]
45' [13.72m]	9360034 32'-11.75" [10.05m]	—	9364496 49'-9.50" [15.18m]	1780228 (STD & HI) 20'-2" [6.15m] 1780637 (LOW) 17'-2.81" [5.25m]	1700976 21'-11.75" [6.70m]
54' [16.46m]	9360034 32'-11.75" [10.05m]	—	1780203 58'-9.12" [17.91m]	1780228 (STD & HI) 20'-2" [6.15m] 1780637 (LOW) 17'-2.81" [5.25m]	1700976 21'-11.75" [6.70m]
64' [19.51m]	9360035 25'-0.25" [7.63m]	9360036 40'-11.62" [12.49m]	1780204 67'-3.62" [20.51m]	1780228 (STD & HI) 20'-2" [6.15m] 1780637 (LOW) 17'-2.81" [5.25m]	1700976 21'-11.75" [6.70m]
73' [22.25m]	9360034 32'-11.75" [10.05m]	9364496 49'-10.99" [15.21m]	9360955 76'-3.88" [23.26m]	1780228 (STD & HI) 20'-2" [6.15m] 1780637 (LOW) 17'-2.81" [5.25m]	1700976 21'-11.75" [6.70m]
82' [24.99m]	9360034 32'-11.75" [10.05m]	1780203 58'-9.12" [17.91m]	1780205 85'-4.62" [26.03m]	1780228 (STD & HI) 20'-2" [6.15m] 1780637 (LOW) 17'-2.81" [5.25m]	1700976 21'-11.75" [6.70m]

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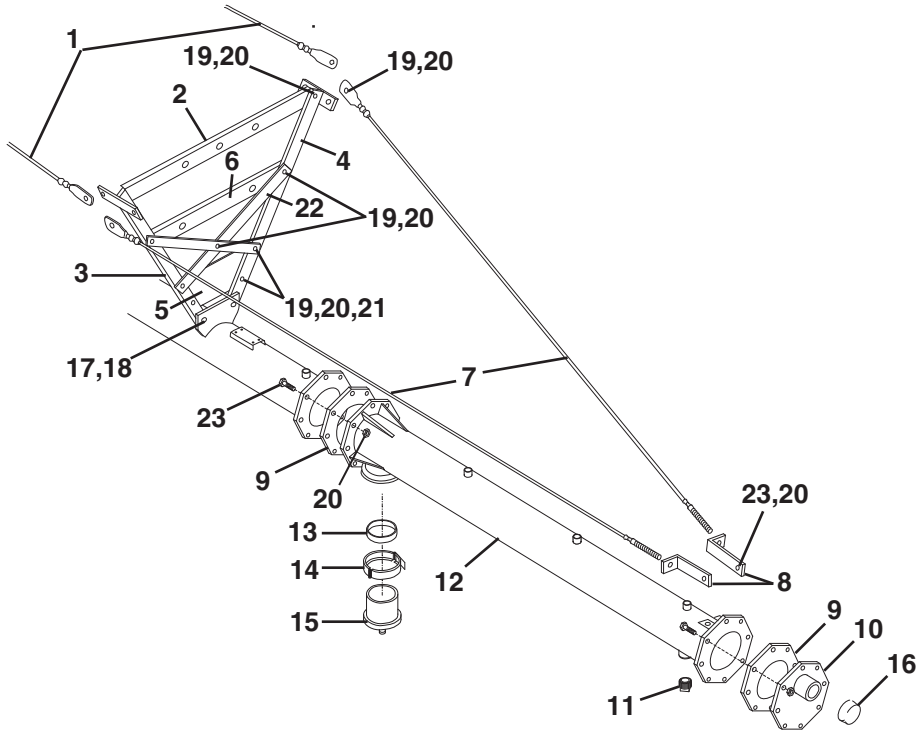
MODEL 8000



ITEM	DESCRIPTION	PART #
1	6-5/8" Flat Gasket	0992211
2	4" Pierce Gasket	0221010
3	Circle Lock Ring	0992084
4	Pipeline Drain	1702117
5	2.5'[.76m]-6-5/8" Diameter Overhang Pipe	9360650
6	2" Pipe Plug	0246011
7	6-5/8" End Plate	1800036
8	1/2" x 2" Cap Screw	0161024
9	1/2" Lock Nut	0133005

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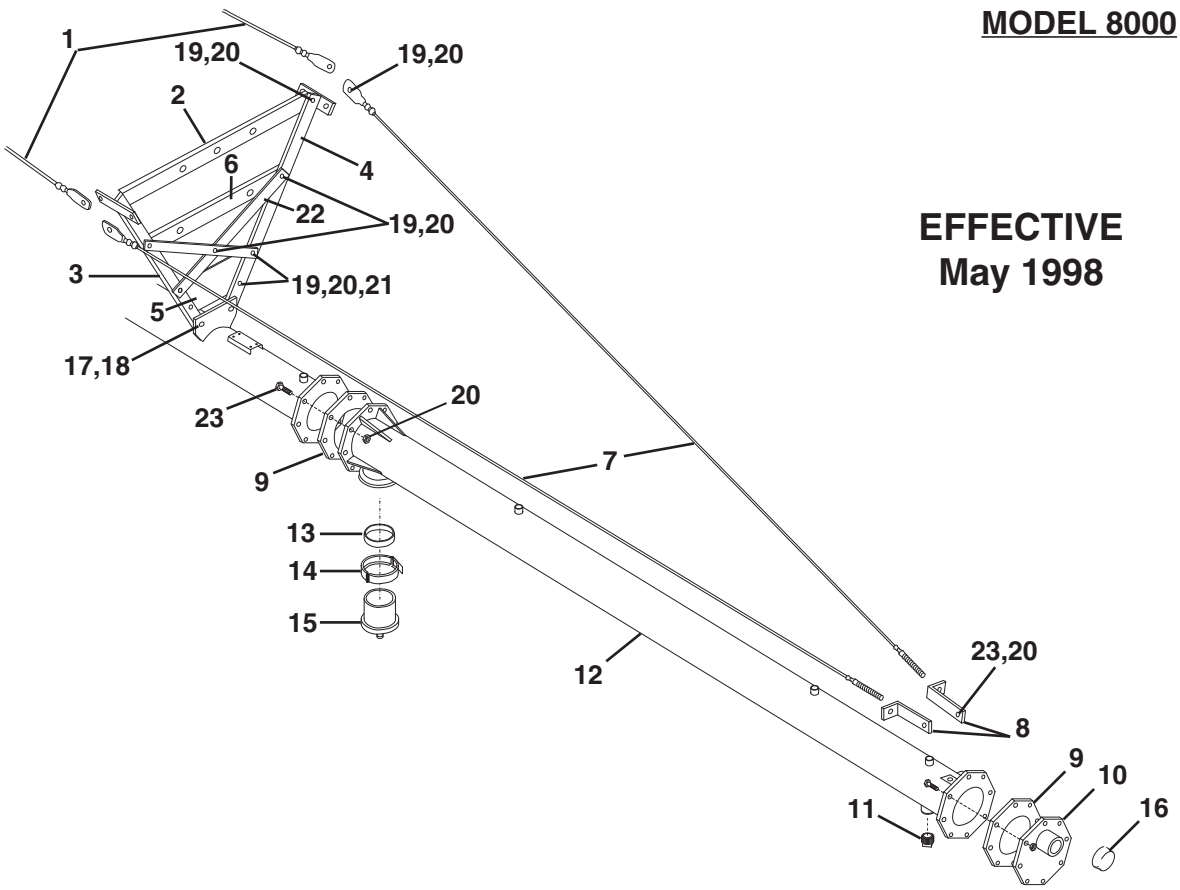
EFFECTIVE
May 1998

ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228 *
3	L.H. Overhang Truss	9360045 *
4	R.H. Overhang Truss	9360044 *
5	Gusset	1701641 *
6	Sign Support-Lower	9360227 *
7	Overhang Support Cable	9360316
8	Cable Support Bracket	1900024
9	6-5/8" Flat Gasket	0992211
10	6-5/8" End Plate	1800036
11	2" Pipe Plug	0246011
12	9'[2.74m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Spacing	9360648
	9'[2.74cm]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Spacing	9360649
13	4" Pierce Gasket	0221010
14	Circle Lock Ring	0992084
15	Pipeline Drain	1702117
16	Pipe Cap	0246046
17	3/4" x 1-3/4" Cap Screw	0161139
18	3/4" Lock Nut	0133011
19	1/2" x 1-1/4" Cap Screw	0161027
20	1/2" Lock Nut	0133005
21	1/2" Flat Washer	0142025
22	Brace Strap	9361716 *
23	1/2" x 2" Cap Screw	0161024

* COMPLETE Overhang Truss Kit KA01187

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MODEL 8000



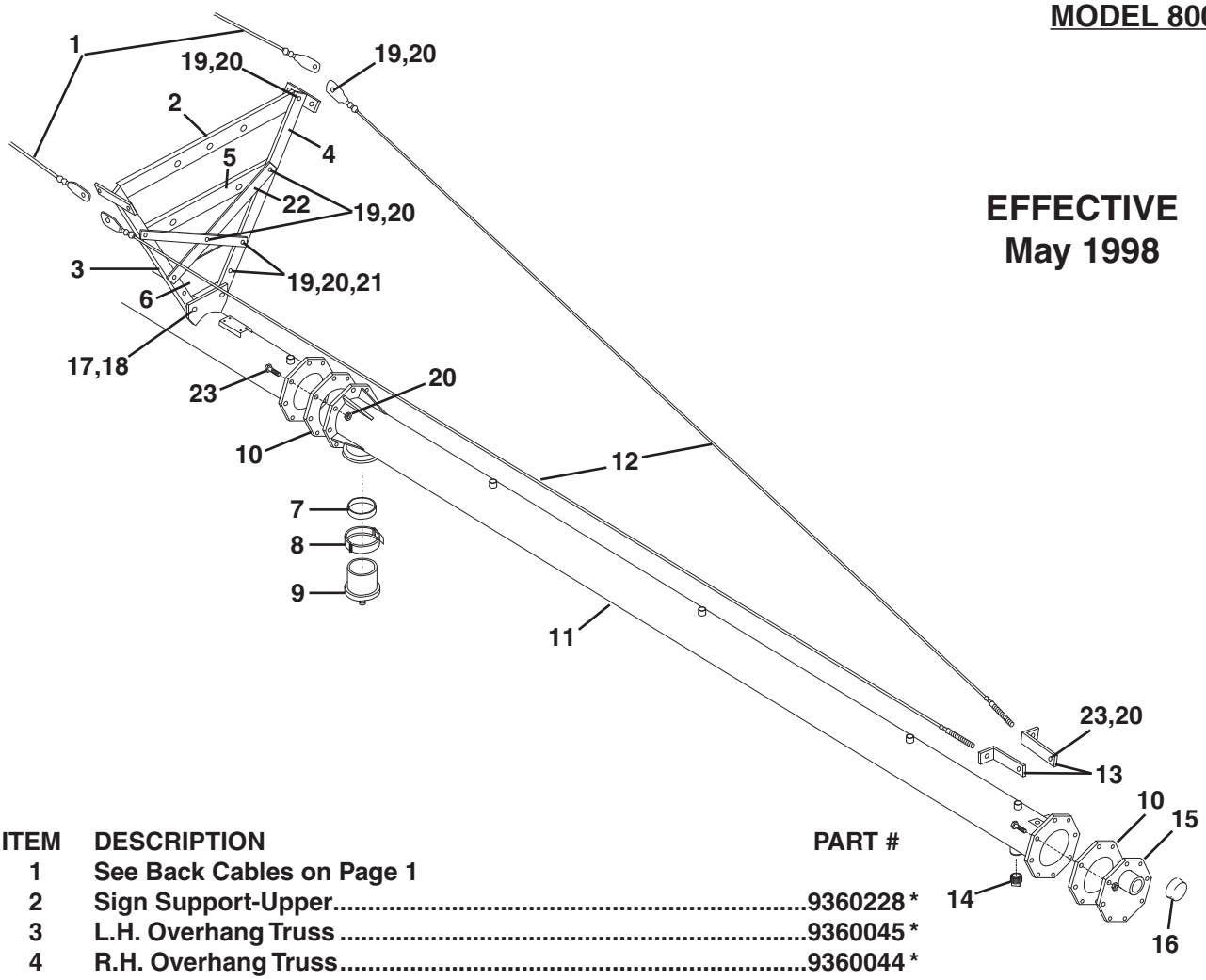
EFFECTIVE
May 1998

ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228 *
3	L.H. Overhang Truss	9360045 *
4	R.H. Overhang Truss	9360044 *
5	Gusset	1701641 *
6	Sign Support-Lower	9360227 *
7	Overhang Support Cable	1780200
8	Cable Support Bracket	1900024
9	6-5/8" Flat Gasket	0992211
10	6-5/8" End Plate	1800036
11	2" Pipe Plug	0246011
12	18'[5.49m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Spacing	9360643
	18'[5.49m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Spacing	9360644
13	4" Pierce Gasket	0221010
14	Circle Lock Ring	0992084
15	Pipeline Drain	1702117
16	Pipe Cap	0246046
17	3/4" x 1-3/4" Cap Screw	0161139
18	3/4" Lock Nut	0133011
19	1/2" x 1-1/4" Cap Screw	0161027
20	1/2" Lock Nut	0133005
21	1/2" Flat Washer	0142025
22	Brace Strap	9361716 *
23	1/2" x 2" Cap Screw	0161024

*** COMPLETE Overhang Truss Kit (Items 2, 3, 4, 5, 6) KA01187**

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MODEL 8000



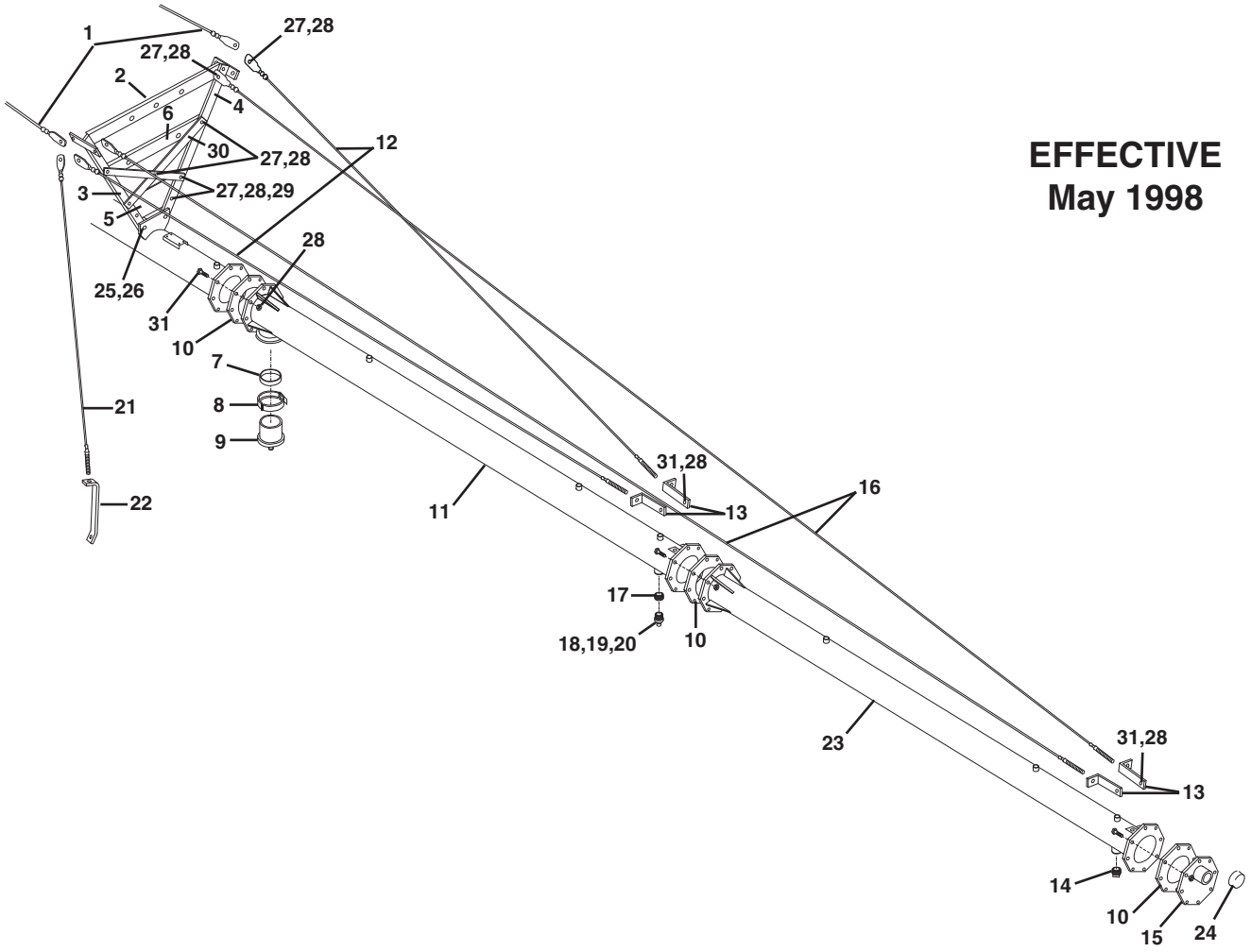
EFFECTIVE
May 1998

ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228 *
3	L.H. Overhang Truss	9360045 *
4	R.H. Overhang Truss	9360044 *
5	Sign Support-Lower	9360227 *
6	Gusset	1701641 *
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	6-5/8" Flat Gasket	0992211
11	27'[8.23m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Spacing	9360645
	27'[8.23m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Spacing	9360646
12	Overhang Support Cable	1780201
13	Cable Support Bracket	1900024
14	2" Pipe Plug	0246011
15	6-5/8" End Plate	1800036
16	Pipe Cap	0246046
17	3/4" x 1-3/4" Cap Screw	0161139
18	3/4" Lock Nut	0133011
19	1/2" x 1-1/4" Cap Screw	0161027
20	1/2" Lock Nut	0133005
21	1/2" Flat Washer	0142025
22	Brace Strap	9361716 *
23	1/2" x 2" Cap Screw	0161024

* COMPLETE Overhang Truss Kit (Items 2, 3, 4, 5, 6) KA01187

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MODEL 8000



EFFECTIVE
May 1998

ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228 *
3	L.H. Overhang Truss	9360045 *
4	R.H. Overhang Truss	9360044 *
5	Gusset	1701641 *
6	Sign Support-Lower	9360227 *
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	6-5/8" Flat Gasket	0992211
11	18'[5.49m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Spac.	9360643
	18'[5.49m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Spac.	9360644
12	Overhang Support Inner Cable	1780200
13	Cable Support Bracket	1900024
14	2" Pipe Plug	0246011
15	6-5/8" End Plate	1800036
16	Overhang Support Outer Cable	1780202
17	2" x 1" Bushing	0244028
18	Upper Drain Body	0246170
19	Drain Seal	0232568
20	Lower Drain Body	0232004
21	Down Cable - Standard Profile	9363790
	- High & Ultra High Profile	9360033
	- Low Profile	9360202
22	Cable Support Bracket - Stand., High & U.H. Prof.	9360196
	- Low Profile	9360851
23	18'[5.49m]-4" Dia. O.H. Pipe 108"[274.3cm] Spacing	9360647
	18'[5.49m]-4" Dia. O.H. Pipe 30"[76.2cm] Spacing	9360641
24	Pipe Cap	0246046
25	3/4" x 1-3/4" Cap Screw	0161139
26	3/4" Lock Nut	0133011
27	1/2" x 1-1/4" Cap Screw	0161027
28	1/2" Lock Nut	0133005
29	1/2" Flat Washer	0142025
30	Brace Strap	9361716 *
31	1/2" x 2" Cap Screw	0161024

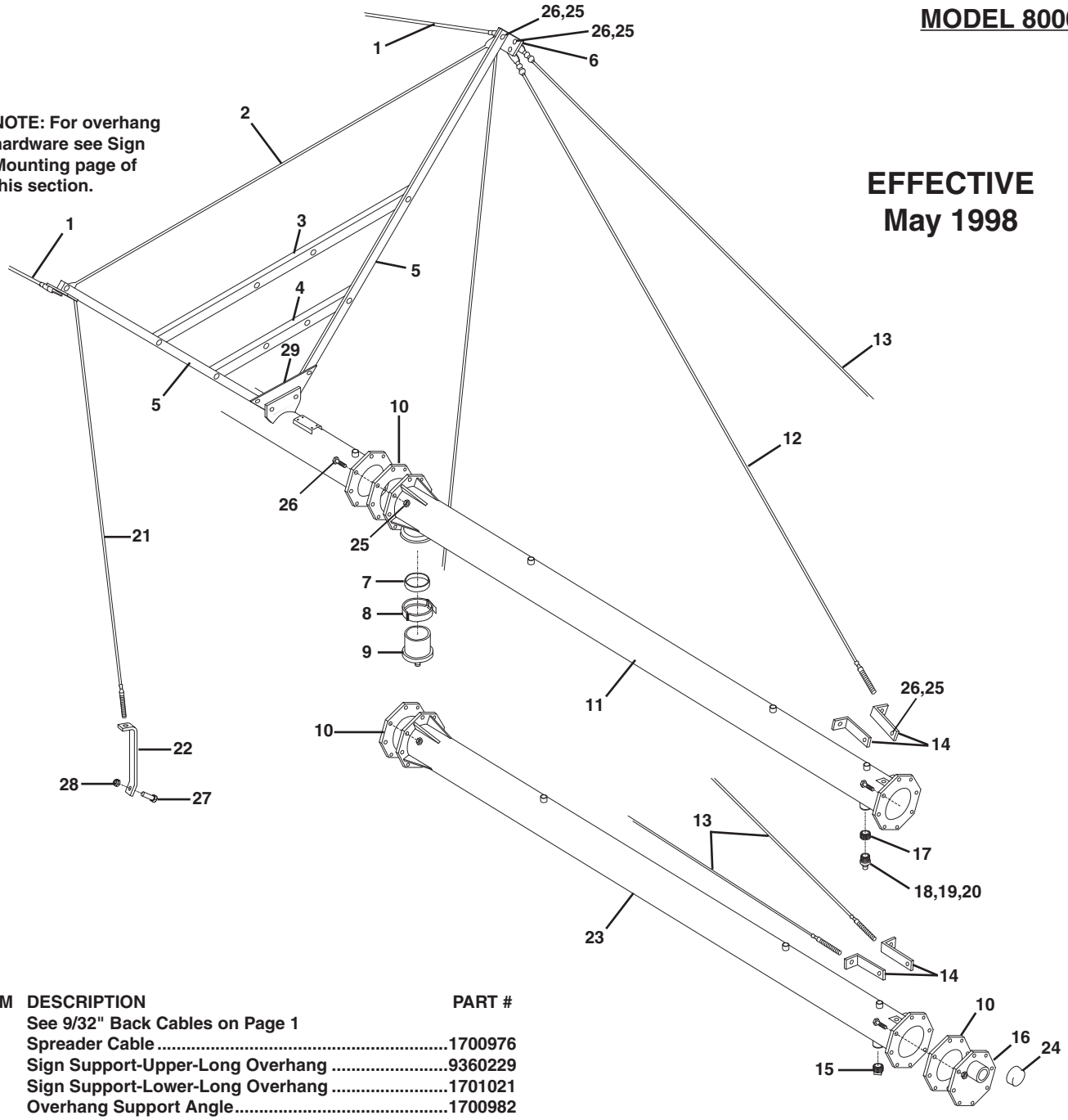
* COMPLETE O/H Truss Kit (Items 2,3,4,5,6) KA01187

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MODEL 8000

NOTE: For overhang hardware see Sign Mounting page of this section.

EFFECTIVE
May 1998

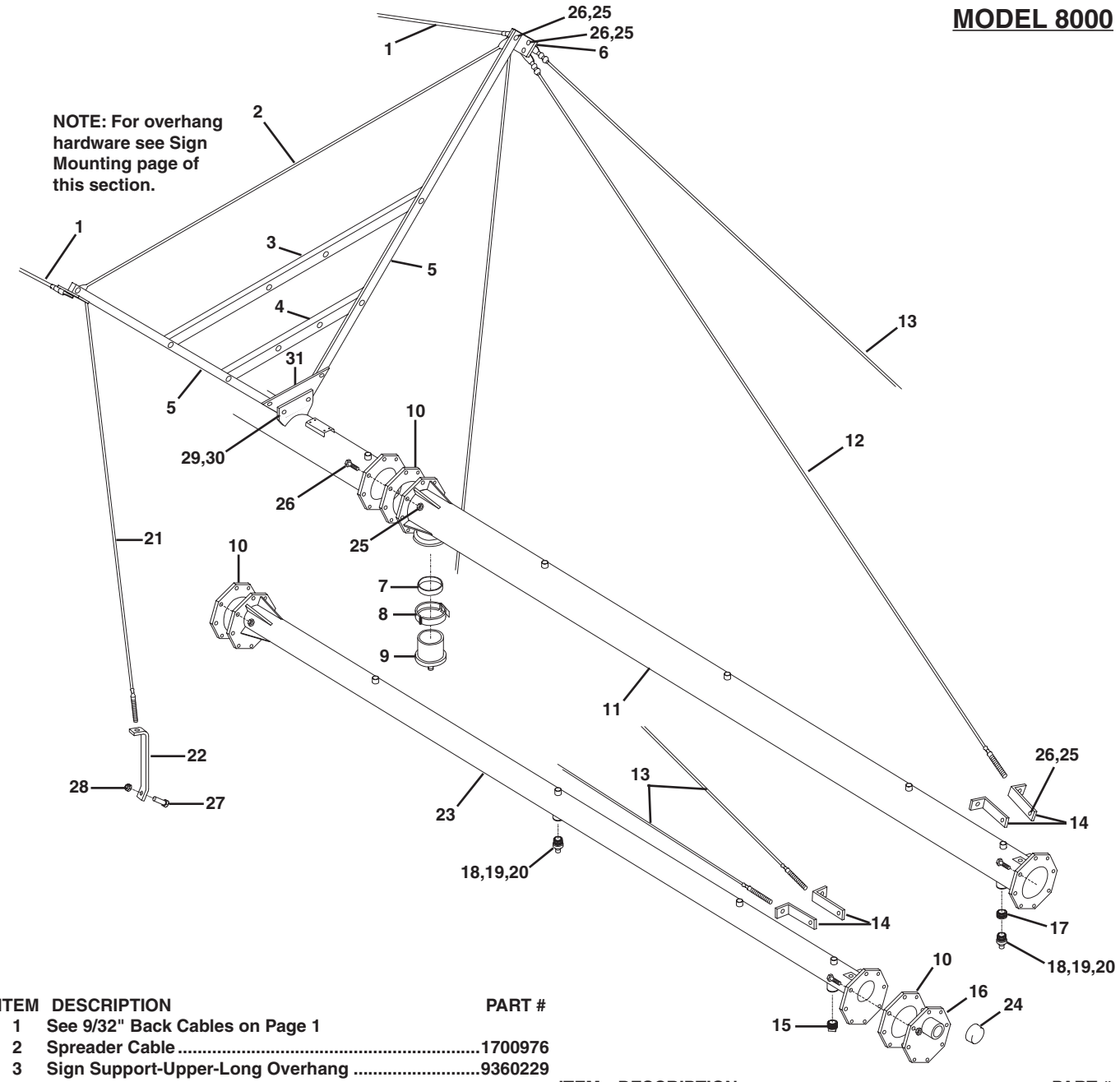


ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	6-5/8" Flat Gasket	0992211
11	18'[5.49m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	9360643
	18'[5.49m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360644
12	Overhang Support Inner Cable	9360035
13	Overhang Support Middle Cable	9360036
14	Cable Support Bracket	1900024
15	2" Pipe Plug	0246011
16	6-5/8" End Plate	1800036
17	2" x 1" Bushing	0244028
18	Upper Drain Body	0246170
19	Drain Seal	0232568

ITEM	DESCRIPTION	PART #
20	Lower Drain Body	0232004
21	Support Cable (Std. & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
22	Cable Support Brkt (Std, Low & Ultra-High Profile)	9360196
	Cable Support Bracket (High Profile)	1780828
23	18'[5.49m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	1780444
	18'[5.49m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	1780800
24	Pipe Cap	0246046
25	1/2" Lock Nut	0133005
26	1/2" x 2" Cap Screw	0161024
27	5/8" x 2" Cap Screw	0161014
28	5/8" Lock Nut	0133010
29	Trapezoid Plate	9363792

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MODEL 8000



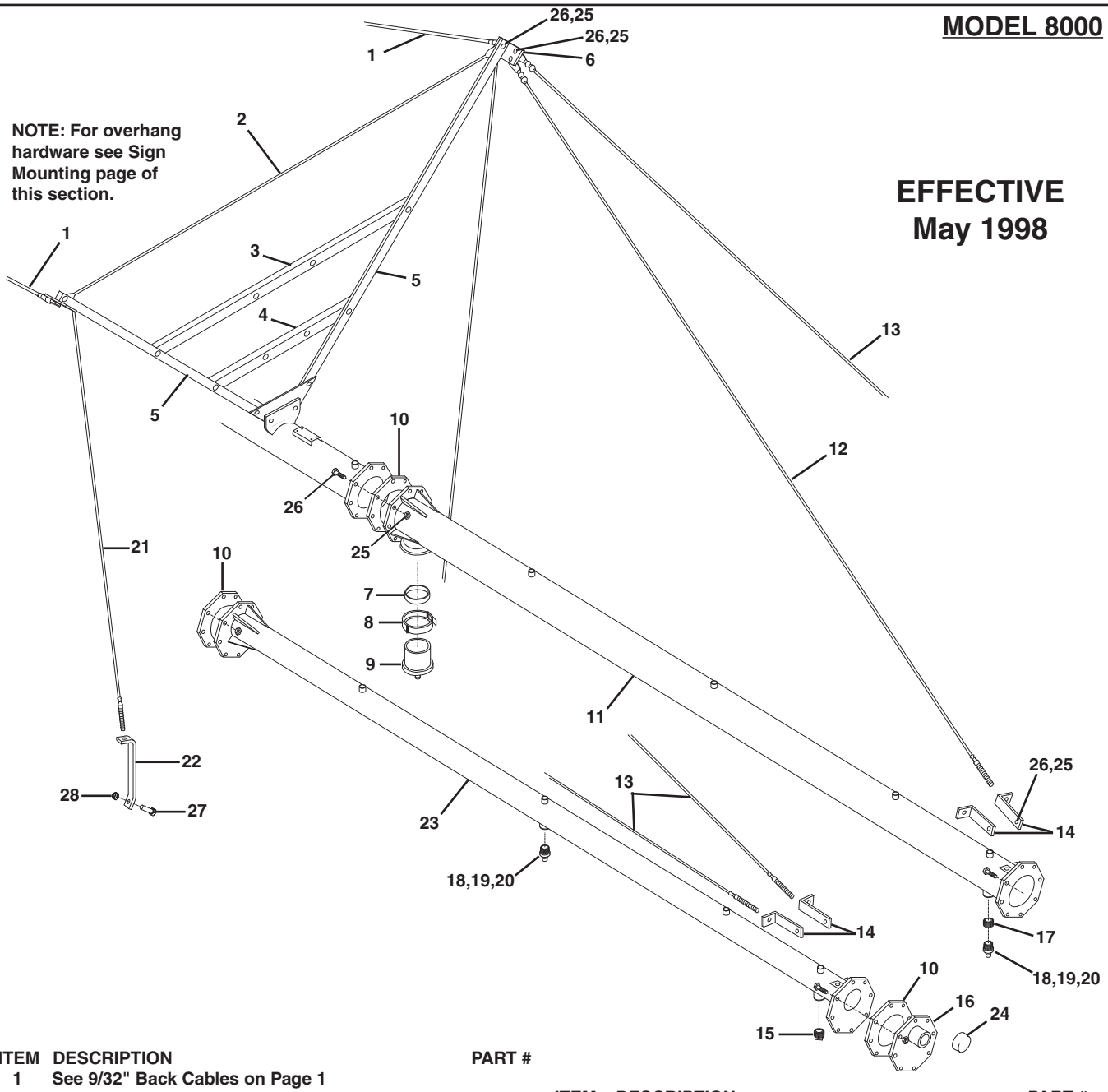
ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	6-5/8" Flat Gasket	0992211
11	27'[8.23m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	9360645
	27'[8.23m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360646
12	Overhang Support Inner Cable	9360034
13	Overhang Support Outer Cable	9364496
14	Cable Support Bracket	1900024
15	2" Pipe Plug	0246011
16	6-5/8" End Plate	1800036
17	2" x 1" Bushing	0244028
18	Upper Drain Body	0246170
19	Drain Seal	0232568
20	Lower Drain Body	0232004
21	Support Cable (Std. & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
22	Cable Support Brkt (Std, Low & Ultra High Prof)	9360196
	Cable Support Bracket (High Profile)	1780828
23	18'[5.49m]-4" Dia. O.H. Pipe 108"[274.3cm] Sp.	9360647
	18'[5.49m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360641
24	Pipe Cap	0246046
25	1/2" Lock Nut	0133005
26	1/2" x 2" Cap Screw	0161024
27	5/8" x 2" Cap Screw	0161014
28	5/8" Lock Nut	0133010
29	3/4" x 1-3/4" Cap Screw	0161139
30	3/4" Lock Nut	0133011
31	Trapezoid Plate	9363792

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MODEL 8000

NOTE: For overhang hardware see Sign Mounting page of this section.

EFFECTIVE May 1998



ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	6-5/8" Flat Gasket	0992211
11	27'[8.23m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	9360645
	27'[8.23m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360646
12	Overhang Support Inner Cable	9360034
13	Overhang Support Outer Cable	1780203
14	Cable Support Bracket	1900024
15	2" Pipe Plug	0246011
16	6-5/8" End Plate	1800036
17	2" x 1" Bushing	0244028

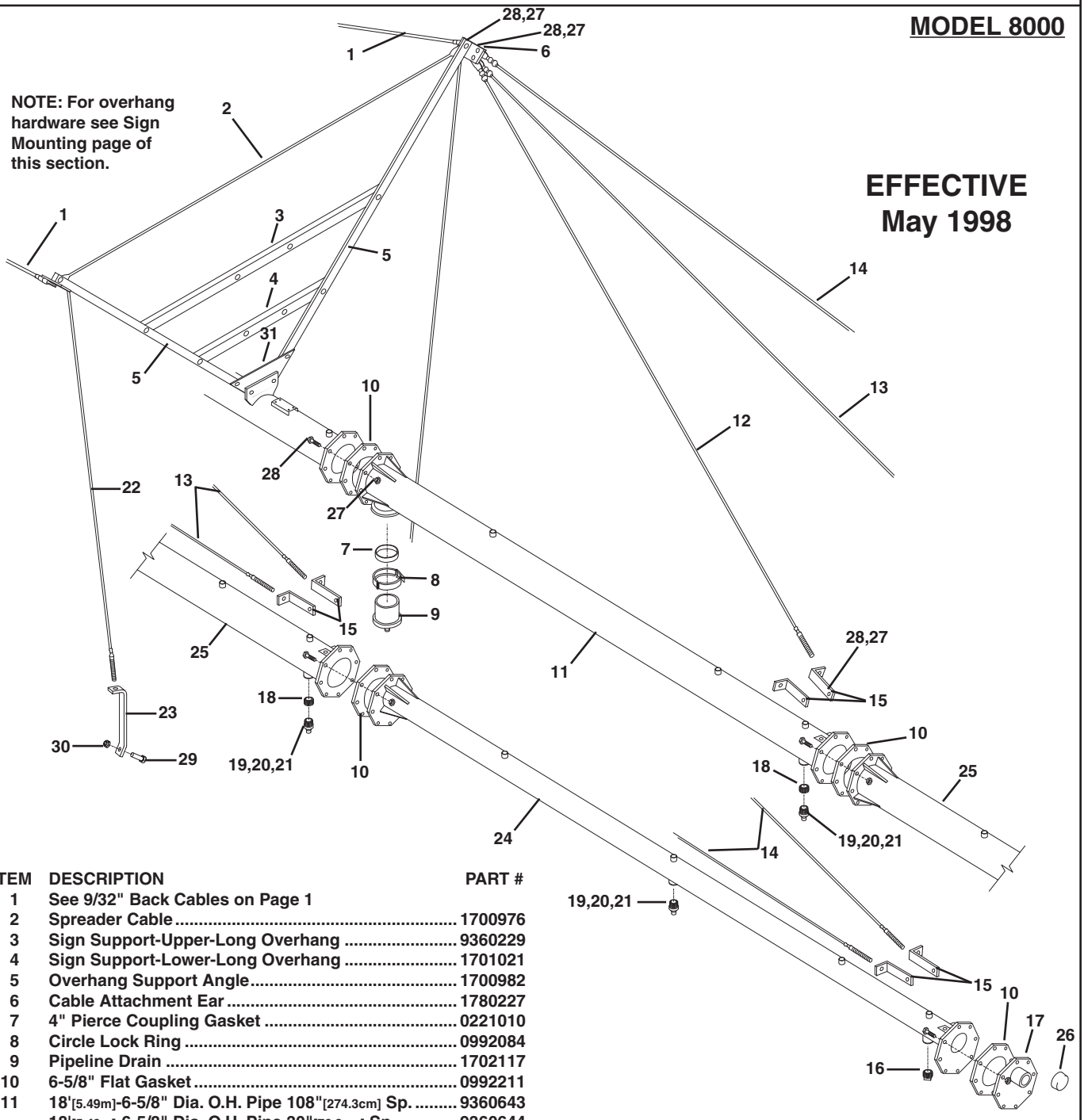
ITEM	DESCRIPTION	PART #
18	Upper Drain Body	0246170
19	Drain Seal	0232568
20	Lower Drain Body	0232004
21	Support Cable (Std. & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
22	Cable Support Brkt (Std, Low & Ultra High Prof)	9360196
	Cable Support Bracket (High Profile)	1780828
23	27'[8.23m]-4" Dia. O.H. Pipe 108"[274.3cm] Sp.	1780446
	27'[8.23m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	1781323
24	Pipe Cap	0246046
25	1/2" Lock Nut	0133005
26	1/2" x 2" Lock Nut	0161024
27	5/8" x 2" Cap Screw	0161014
28	5/8" Lock Nut	0133010
29	Trapezoid Plate	9363792

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MODEL 8000

EFFECTIVE
May 1998

NOTE: For overhang hardware see Sign Mounting page of this section.

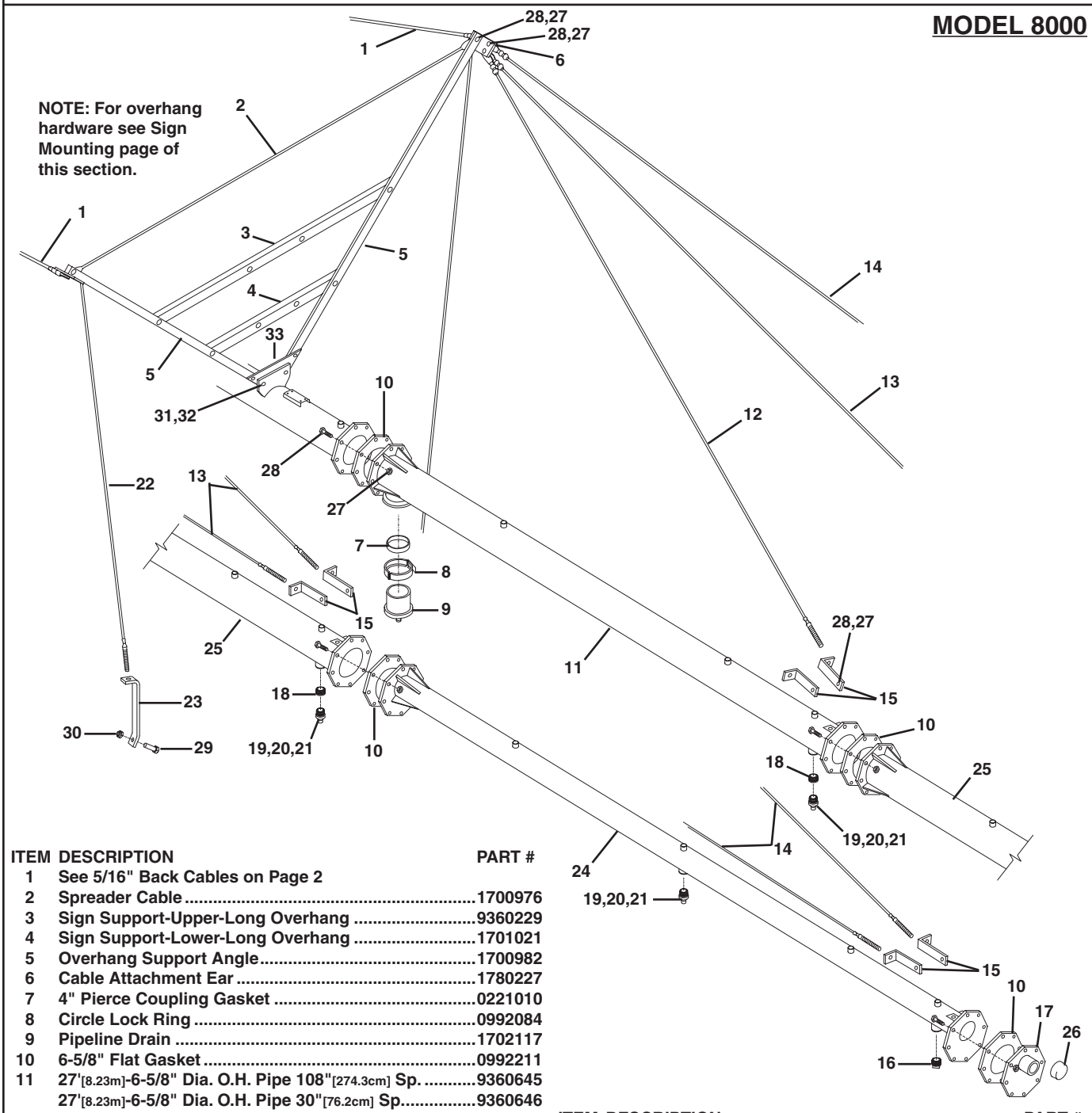


ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	6-5/8" Flat Gasket	0992211
11	18'[5.49m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	9360643
	18'[5.49m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360644
12	Inner Cable	9360035
13	Middle Cable	9360036
14	Outer Cable	1780204
15	Cable Support Bracket	1900024
16	2" Pipe Plug	0246011
17	6-5/8" End Plate	1800036
18	2" x 1" Bushing	0244028
19	Upper Drain Body	0246170
20	Drain Seal	0232568
21	Lower Drain Body	0232004
22	Support Cable (Std. & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195

ITEM	DESCRIPTION	PART #
23	Cable Support Brkt (Std, Low & Ultra-High Profile)	9360196
	Cable Support Bracket (High Profile)	1780828
24	27'[8.23m]-4" Dia. O.H. Pipe 108"[274.3cm] Sp.	1780446
	27'[8.23m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	1781323
25	18'[5.49m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	1780444
	18'[5.49m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	1780800
26	Pipe Cap	0246046
27	1/2" Lock Nut	0133005
28	1/2" x 2" Cap Screw	0161024
29	5/8" x 2" Cap Screw	0161014
30	5/8" Lock Nut	0133010
31	Trapezoid Plate	9363792

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MODEL 8000



ITEM	DESCRIPTION	PART #
1	See 5/16" Back Cables on Page 2	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	6-5/8" Flat Gasket	0992211
11	27'[8.23m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	9360645
	27'[8.23m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360646
12	Overhang Support Inner Cable	9360034
13	Overhang Support Middle Cable	9364496
14	Overhang Support Outer Cable	9360955
15	Cable Support Bracket	1900024
16	2" Pipe Plug	0246011
17	6-5/8" End Plate	1800036
18	2" x 1" Bushing	0244028
19	Upper Drain Body	0246170
20	Drain Seal	0232568
21	Lower Drain Body	0232004
22	Support Cable (Std. & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
23	Cable Support Brkt (Std, Low & Ultra-High Prof)	9360196

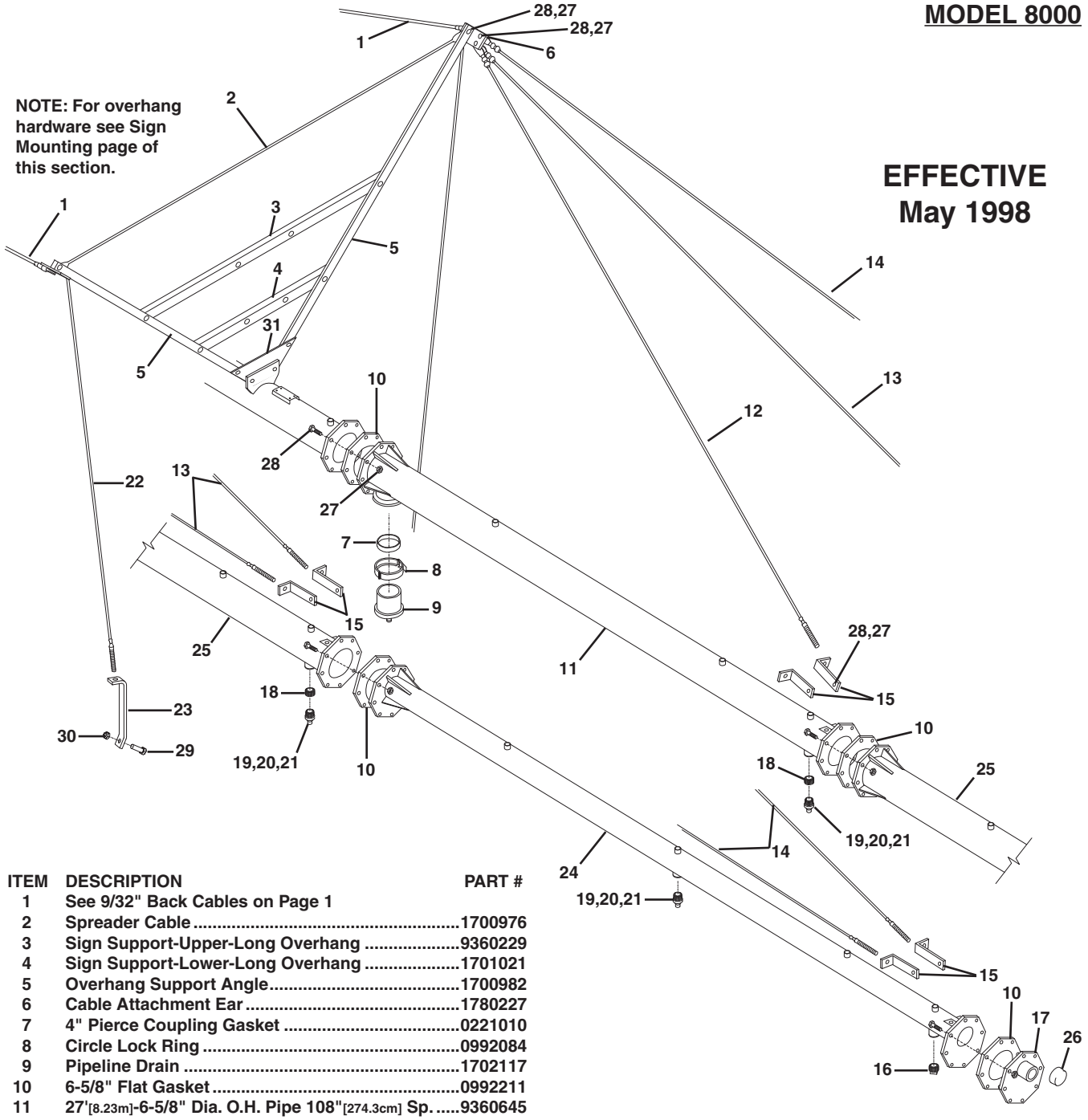
ITEM	DESCRIPTION	PART #
	Cable Support Bracket (High Profile)	1780828
24	27'[8.23m]-4" Dia. O.H. Pipe 108"[274.3cm] Sp.	1780446
	27'[8.23m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	1781323
25	18'[5.49m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	1780444
	18'[5.49m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	1780800
26	Pipe Cap	0246046
27	1/2" Lock Nut	0133005
28	1/2" x 2" Cap Screw	0161024
29	5/8" x 2" Cap Screw	0161014
30	5/8" Lock Nut	0133010
31	3/4" x 1-3/4" Cap Screw	0161139
32	3/4" Lock Nut	0133011
33	Trapezoid Plate	9363792

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MODEL 8000

EFFECTIVE
May 1998

NOTE: For overhang hardware see Sign Mounting page of this section.



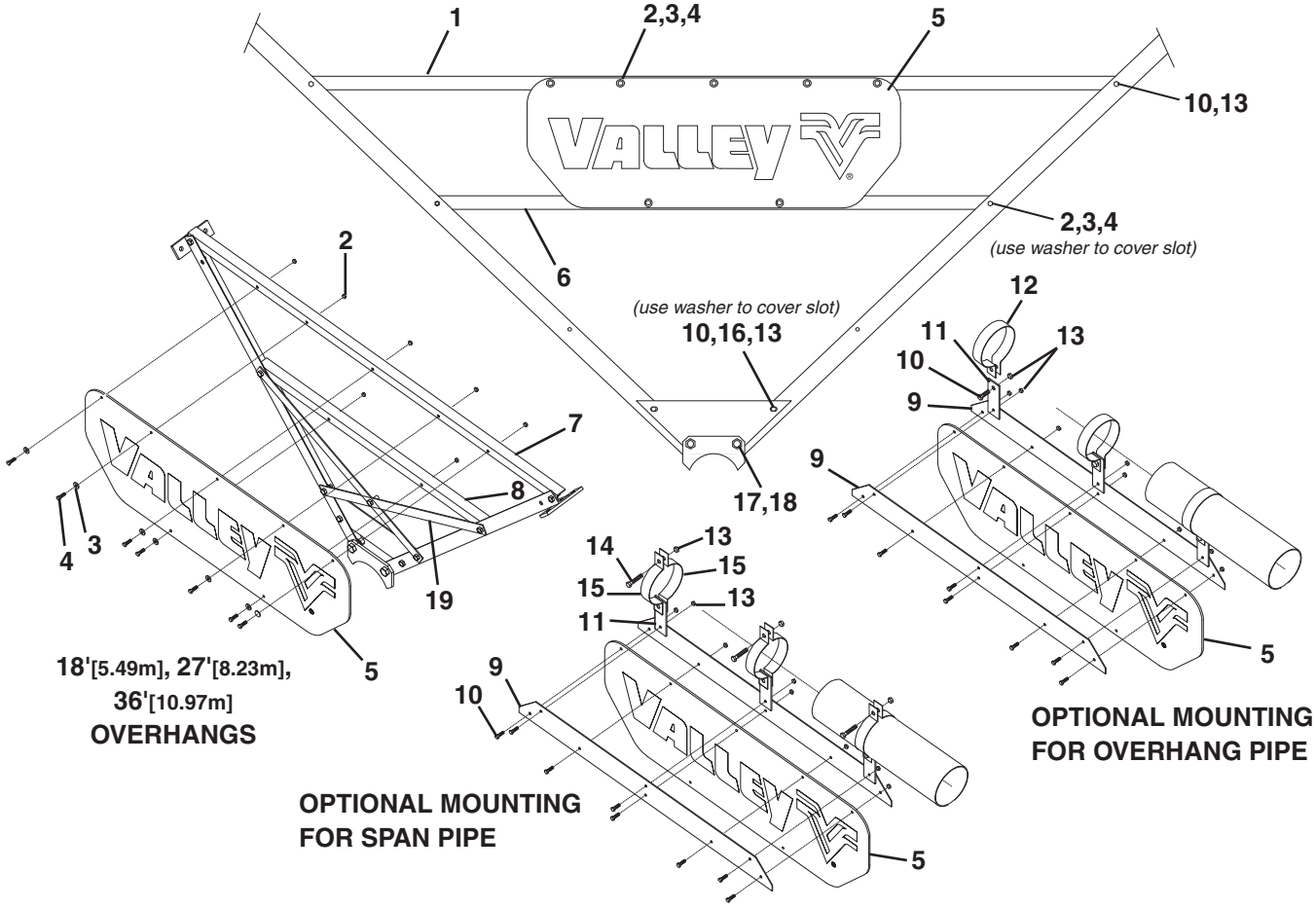
ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	6-5/8" Flat Gasket	0992211
11	27'[8.23m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	9360645
	27'[8.23m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360646
12	Overhang Support Inner Cable	9360034
13	Overhang Support Middle Cable	1780203
14	Overhang Support Outer Cable	1780205
15	Cable Support Bracket	1900024
16	2" Pipe Plug	0246011
17	6-5/8" End Plate	1800036
18	2" x 1" Bushing	0244028
19	Upper Drain Body	0246170
20	Drain Seal	0232568
21	Lower Drain Body	0232004
22	Support Cable (Std. & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195

ITEM	DESCRIPTION	PART #
23	Cable Support Brkt (Std, Low & Ultra-High Prof)	9360196
	Cable Support Bracket (High Profile)	1780828
24	27'[8.23m]-4" Dia. O.H. Pipe 108"[274.3cm] Sp.	1780446
	27'[8.23m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	1781323
25	27'[8.23m]-6-5/8" Dia. O.H. Pipe 108"[274.3cm] Sp.	9360670
	27'[8.23m]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360642
26	Pipe Cap	0246046
27	1/2" Lock Nut	0133005
28	1/2" x 2" Lock Nut	0161024
29	5/8" x 2" Cap Screw	0161014
30	5/8" Lock Nut	0133010
31	Trapezoid Plate	9363792

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MODEL 8000

36'[10.97m] HEAVY DUTY, 54'[16.46m], 64'[19.51m], 82'[24.99m] OVERHANGS



18'[5.49m], 27'[8.23m], 36'[10.97m] OVERHANGS

OPTIONAL MOUNTING FOR OVERHANG PIPE

OPTIONAL MOUNTING FOR SPAN PIPE

ITEM	DESCRIPTION	PART #
1	Sign Support-Upper-Long Overhang	9360229
2	5/16" Lock Nut	0133007
3	5/16" Flat Washer	0142017
4	5/16" x 1" Cap Screw	0161052
5	Valley Sign	0994656
	Valley Sign - 8000 series - DISCONTINUED Jun 18	0997285
6	Sign Support-Lower-Long Overhang	1701021
7	Sign Support-Upper	9360228
8	Sign Support-Lower	9360227
9	Sign Reinforcing Strap	9360226
10	1/2" x 1-1/4" Cap Screw	0161027
11	Rubber Sign Hanger-5 Ply	0994657
12	Sign Support Band	9360230*
13	1/2" Lock Nut	0133005
14	1/2" x 2-1/2" Cap Screw	0161023
	1/2" x 3" Cap Screw (8-5/8" Clamp)	0161136
15	6-5/8" Half Clamp	1720290
	8-5/8" Half Clamp	9330002
	10" Half Clamp	1702524
16	1/2" Flat Washer	0142025
17	3/4" x 1-3/4" Cap Screw	0161139
18	3/4" Lock Nut	0133011
19	Brace Strap	9361716

***Shipped as a straight strip that must be formed around the pipeline.**

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PolySpan® - OVERHANGS

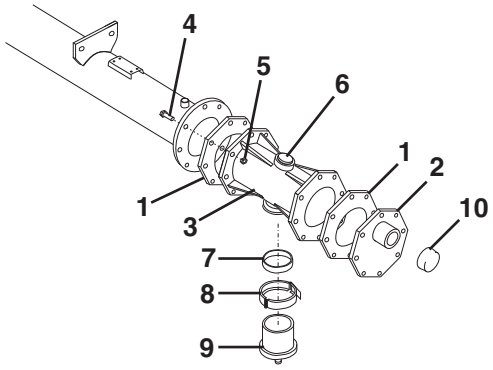
Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
No Overhang	09-08	15-3
10.1'[3.08m] Overhang	07-17	15-4
19.2'[5.85m] PolySpan Overhang	07-17	15-5
28.5'[8.69m] PolySpan Overhang	07-17	15-6
37.6'[11.46m] PolySpan Overhang	02-13	15-7
46.6'[14.20m] Lined Overhang	03-17	15-8
Blank Page	03-17	15-9
55.9'[17.04m] Unlined Overhang - EFFECTIVE Mar 06 - Jan 17	03-17	15-10
55.9'[17.04m] Lined Overhang - EFFECTIVE Feb 17	03-17	15-11
64.7'[19.72m] Unlined Overhang - EFFECTIVE Mar 06 - Jan 17	03-17	15-12
64.7'[19.72m] Lined Overhang - EFFECTIVE Feb 17	03-17	15-13
74.0'[22.55m] Lined Overhang - PRIOR TO Feb 17	03-17	15-14
74.0'[22.55m] Lined Overhang - EFFECTIVE Feb 17	03-17	15-15
83.3'[25.39m] Unlined Overhang - EFFECTIVE Mar 06 - Jan 17	03-17	15-16
83.3'[25.39m] Lined Overhang - EFFECTIVE Feb 17	03-17	15-17
Sign Mounting	07-18	15-18

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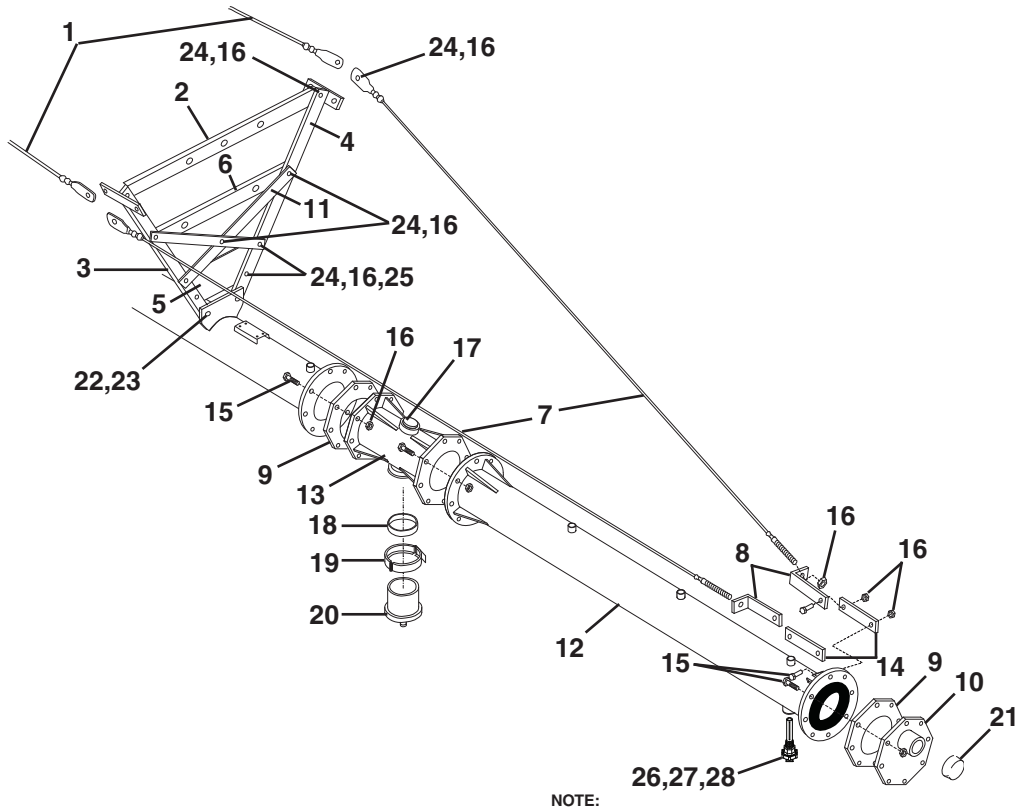
EFFECTIVE
October 2001



ITEM	DESCRIPTION	PART #
1	6-5/8" Flat Gasket	0992211
2	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
3	Spacer, Stainless Steel, w/4° Tip	9360464
4	1/2" x 2" Cap Screw	0161024
5	1/2" Lock Nut	0133005
6	2-1/2" Pipe Plug - Galvanized	0246184
7	4" Pierce Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	Pipe Cap	0246046

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EFFECTIVE
March 2006



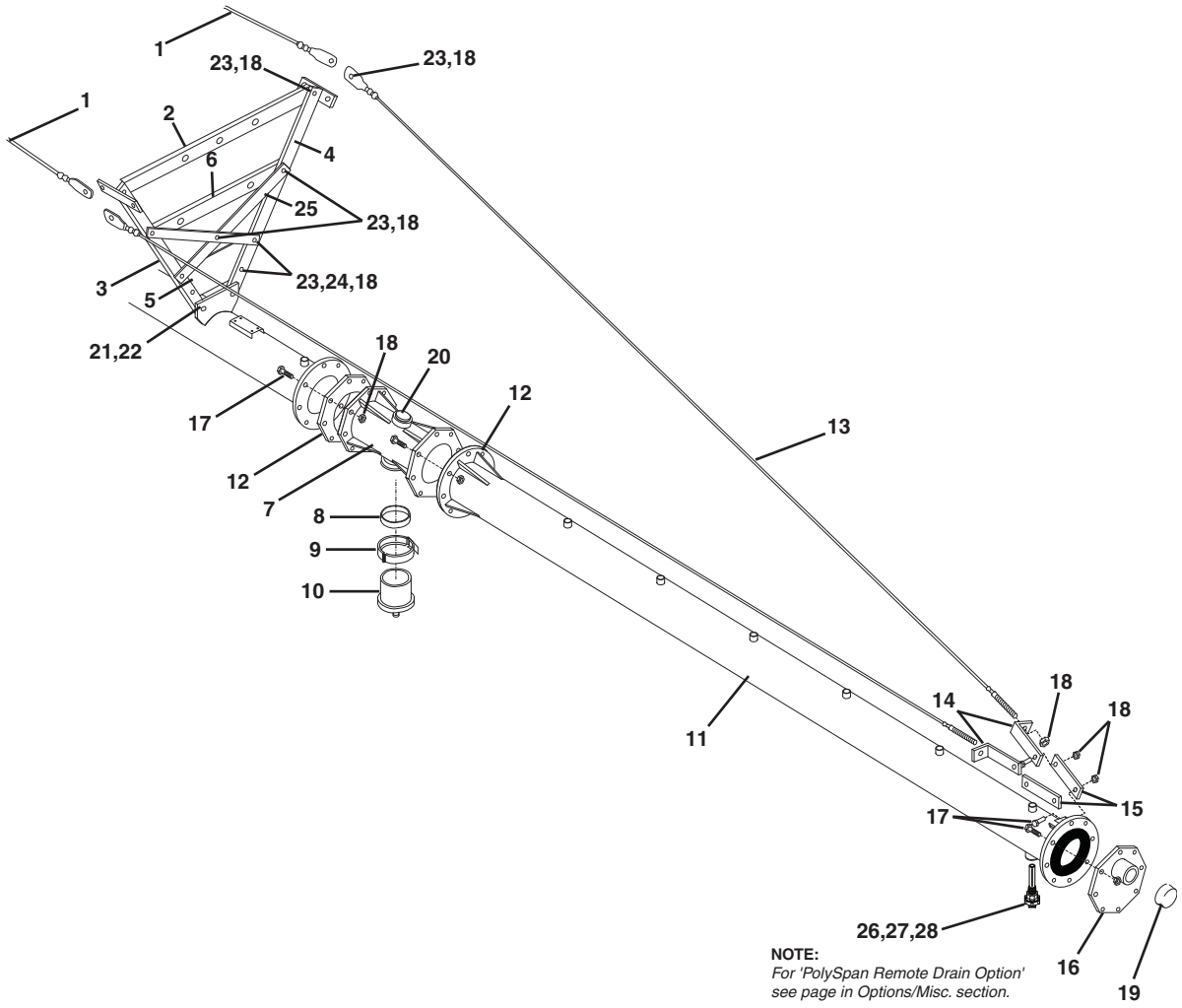
NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228*
3	L.H. Overhang Truss	9360045*
4	R.H. Overhang Truss	9360044*
5	Gusset	1701641*
6	Sign Support-Lower	9360227*
7	Overhang Support Cable	9360316
8	Cable Support Bracket	1900024
9	6-5/8" Flat Gasket	0992211
10	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
11	Brace Strap	9361716*
12	9'[2.74cm]-6-5/8" Dia. O.H. Pipe 30"[76.2cm] Spacing	9362691
13	Spacer, Stainless Steel, w/4° Tip	9360464
14	Overhang Cable Extension Brkt.	9360499
15	1/2" x 2" Cap Screw	0161024
16	1/2" Lock Nut	0133005
17	2-1/2" Pipe Plug - Galvanized	0246184
18	4" Pierce Gasket	0221010
19	Circle Lock Ring	0992084
20	Pipeline Drain	1702117
21	Pipe Cap	0246046
22	3/4" x 1-3/4" Cap Screw	0161139
23	3/4" Lock Nut	0133011
24	1/2 X 1-1/4" Cap Screw	0161027
25	1/2" Flat Washer	0142025
26	3/4" Upper Drain Body	0246227
27	Drain Seal	0232568
28	Lower Drain Body	0232004

*COMPLETE Overhang Truss Kit KA01187

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EFFECTIVE
March 2006



NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

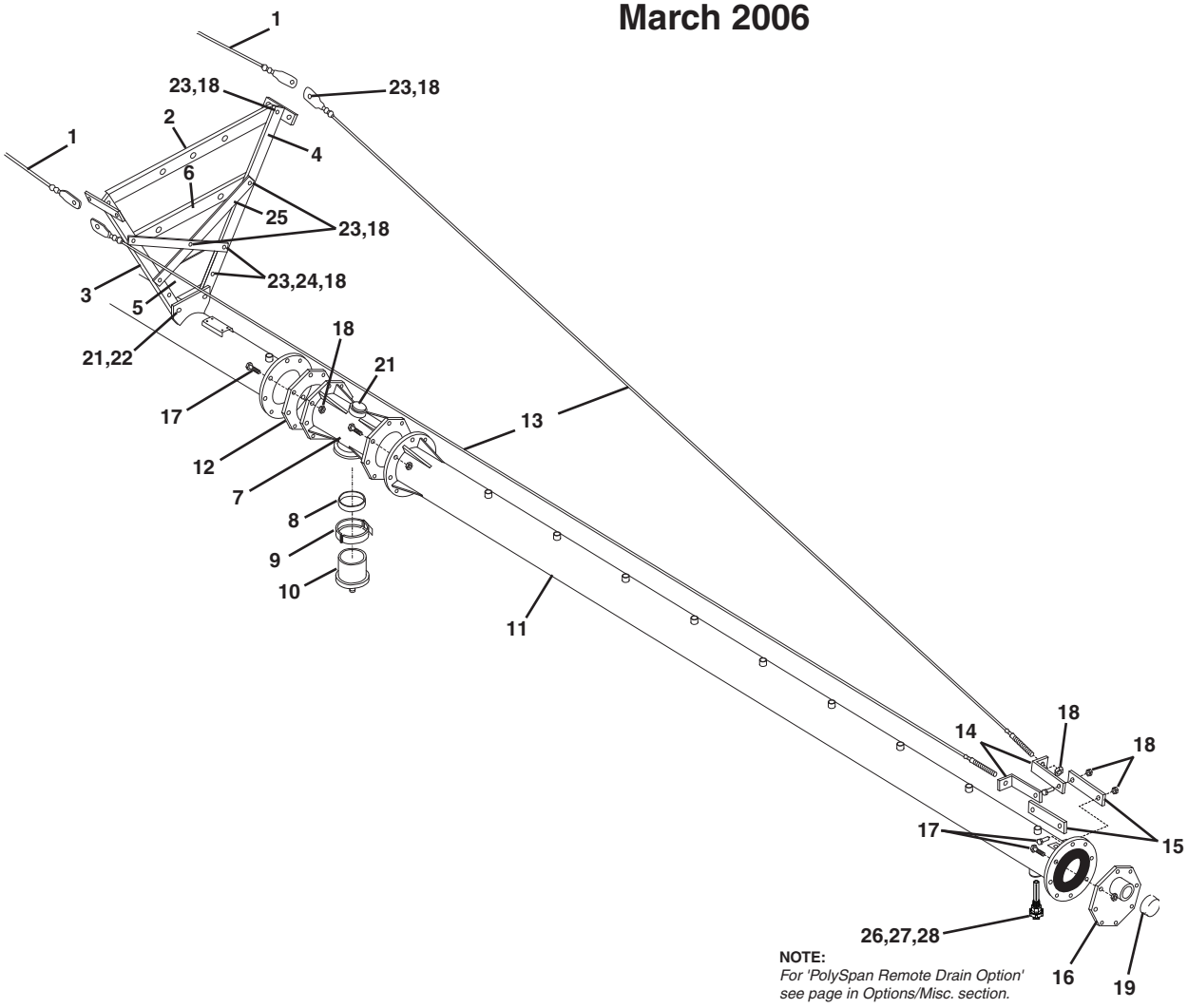
ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg 1)	
2	Sign Support-Upper	9360228*
3	L.H. Overhang Truss	9360045*
4	R.H. Overhang Truss	9360044*
5	Gusset	1701641*
6	Sign Support-Lower	9360227*
7	Spacer, Stainless Steel, w/4° Tip	9360464
8	4" Pierce Coupling Gasket	0221010
9	Circle Lock Ring	0992084
10	Pipeline Drain	1702117
11	18'[5.49m] 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362693
12	6-5/8" Rubber Gasket	0992211
13	Overhang Support Cable	1780200
14	Cable Support Bracket	1900024
15	Overhang Cable Extension Bracket	9360499
16	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508

ITEM	DESCRIPTION	PART #
17	1/2" x 2" Cap Screw	0161024
18	1/2" Lock Nut	0133005
19	Pipe Cap	0246046
20	2-1/2" Pipe Plug - Galvanized	0246184
21	3/4" x 1-3/4" Cap Screw	0161139
22	3/4" Lock Nut	0133011
23	1/2" x 1-1/4" Cap Screw	0161027
24	1/2" Flat Washer	0142025
25	Brace Strap	9361716*
26	3/4" Upper Drain Body	0246227
27	Drain Seal	0232568
28	Lower Drain Body	0232004

* COMPLETE Overhang Truss Kit KA01187

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EFFECTIVE
March 2006



NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg 1)	
2	Sign Support-Upper	9360228*
3	L.H. Overhang Truss	9360045*
4	R.H. Overhang Truss	9360044*
5	Gusset	1701641*
6	Sign Support-Lower	9360227*
7	Spacer, Stainless Steel, w/4° Tip	9360464
8	4" Pierce Coupling Gasket	0221010
9	Circle Lock Ring	0992084
10	Pipeline Drain	1702117
11	27'[8.23m] 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
12	6-5/8" Rubber Gasket	0992211
13	Overhang Support Cable	1780201
14	Cable Support Bracket	1900024
15	Overhang Cable Extension Bracket	9360499
16	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508

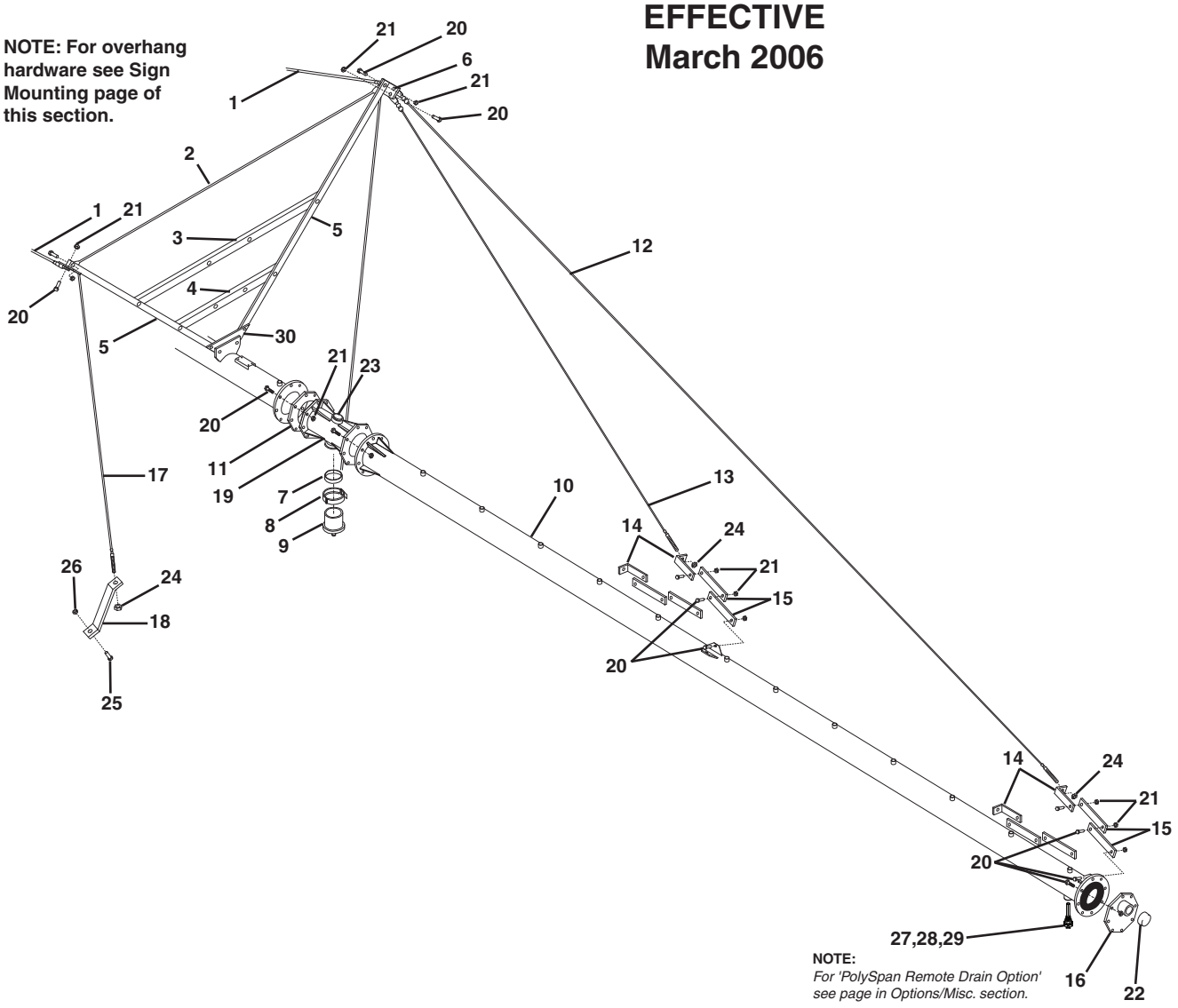
ITEM	DESCRIPTION	PART #
17	1/2" x 2" Cap Screw	0161024
18	1/2" Lock Nut	0133005
19	Pipe Cap	0246046
20	2-1/2" Pipe Plug - Galvanized	0246184
21	3/4" x 1-3/4" Cap Screw	0161139
22	3/4" Lock Nut	0133011
23	1/2" x 1-1/4" Cap Screw	0161027
24	1/2" Flat Washer	0142025
25	Brace Strap	9361716*
26	3/4" Upper Drain Body	0246227
27	Drain Seal	0232568
28	Lower Drain Body	0232004

*** COMPLETE Overhang Truss Kit** **KA01187**

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NOTE: For overhang hardware see Sign Mounting page of this section.

EFFECTIVE March 2006

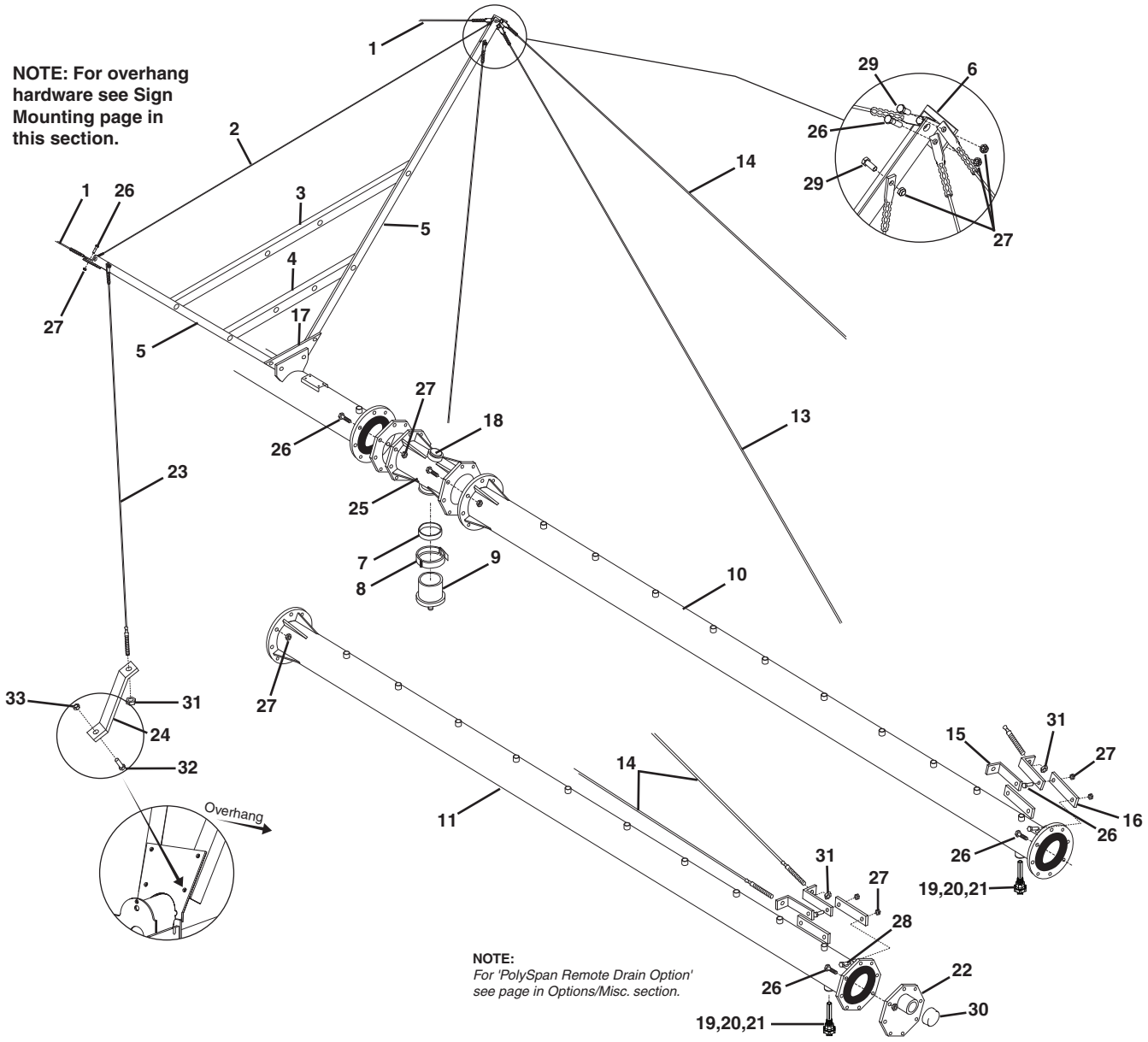


NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	36'[10.97m] 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362697
11	6-5/8" Rubber Gasket	0992211
12	Overhang Support Middle Cable	9360036
13	Overhang Support Inner Cable	9360035
14	Cable Support Bracket	1900024
15	Overhang Cable Extension Bracket	9360499
16	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508

ITEM	DESCRIPTION	PART #
17	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
18	Cable Support Bracket (Std & Low Profile)	1700975
	Cable Support Bracket (High Profile)	1780828
19	Spacer, Stainless Steel, w/4° Tip	9360464
20	1/2" x 2" Cap Screw	0161024
21	1/2" Lock Nut	0133005
22	Pipe Cap	0246046
23	2-1/2" Pipe Plug - Galvanized	0246184
24	3/4" Hex Nut	0131008
25	5/8" x 2" Cap Screw	0161014
26	5/8" Lock Nut	0133010
27	3/4" Upper Drain Body	0246227
28	Drain Seal	0232568
29	Lower Drain Body	0232004
30	Trapezoid Plate	9363792

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ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
11	18'[5.48m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362693
12	6-5/8" Rubber Gasket	0992211
13	Overhang Support Inner Cable	9360034
14	Overhang Support Outer Cable	9364496
15	Cable Support Bracket	1900024
16	Overhang Cable Extension Bracket	9360499
17	Trapezoid Plate	9363792
18	2-1/2" Pipe Plug - Galvanized	0246184
19	3/4" Upper Drain Body	0246227

ITEM	DESCRIPTION	PART #
20	Drain Seal	0232568
21	Lower Drain Body	0232004
22	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
23	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
24	Cable Support Brkt (Std, Low & Ultra-High Prof)	1700975
	Cable Support Bracket (High Profile)	1780828
25	Spacer, Stainless Steel, w/4° Tip	9360464
26	1/2" x 2" Cap Screw	0161024
27	1/2" Lock Nut	0133005
28	1/2" x 1-1/2" Cap Screw	0161026
29	1/2" x 1-1/4" Cap Screw	0161027
30	Pipe Cap	0246046
31	3/4" Hex Nut	0131008
32	5/8" x 2" Cap Screw	0161014
33	5/8" Lock Nut	0133010

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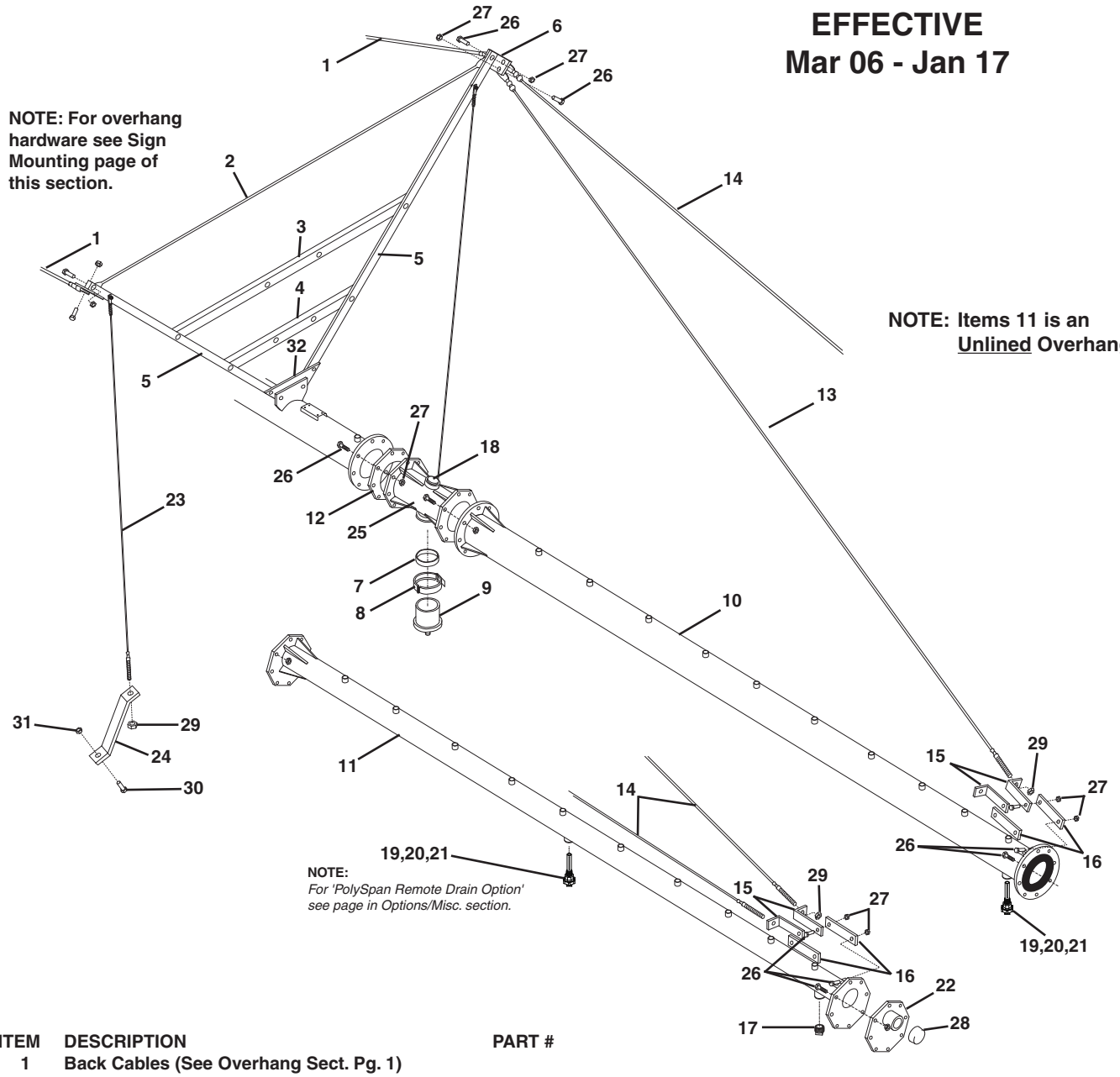
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EFFECTIVE
Mar 06 - Jan 17

NOTE: For overhang hardware see Sign Mounting page of this section.

NOTE: Items 11 is an Unlined Overhang.

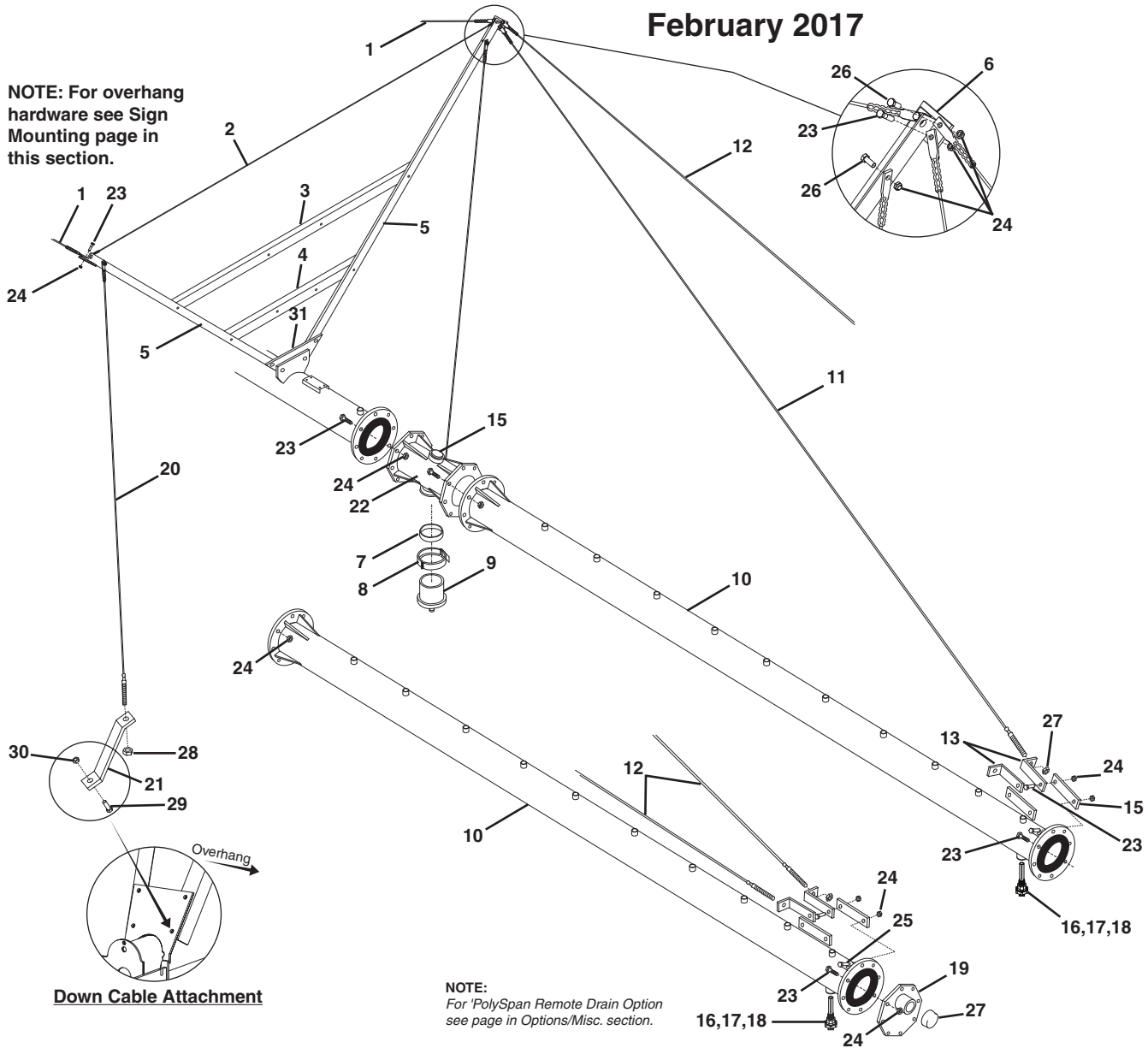


ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
11	27'[8.23m] x 4" Dia. O.H. Pipe 30"[76.2cm] Sp.	1781323
12	6-5/8" Rubber Gasket	0992211
13	Overhang Support Inner Cable	9360034
14	Overhang Support Outer Cable	1780203
15	Cable Support Bracket	1900024
16	Overhang Cable Extension Bracket	9360499
17	2" Pipeplug	0246011
18	2-1/2" Pipe Plug - Galvanized	0246184
19	3/4" Upper Drain Body	0246227

ITEM	DESCRIPTION	PART #
20	Drain Seal	0232568
21	Lower Drain Body	0232004
22	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
23	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
24	Cable Support Brkt (Std, Low & Ultra-High Prof)	1700975
	Cable Support Bracket (High Profile)	1780828
25	Spacer, Stainless Steel, w/4° Tip	9360464
26	1/2" x 2" Cap Screw	0161024
27	1/2" Lock Nut	0133005
28	Pipe Cap	0246046
29	3/4" Hex Nut	0131008
30	5/8" x 2" Cap Screw	0161014
31	5/8" Lock Nut	0133010
32	Trapezoid Plate	9363792

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EFFECTIVE
February 2017



ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
11	Overhang Support Inner Cable	9360034
12	Overhang Support Outer Cable	1780203
13	Cable Support Bracket	1900024
14	Overhang Cable Extension Bracket	9360499
15	2-1/2" Pipe Plug - Galvanized	0246184
16	3/4" Upper Drain Body	0246227
17	Drain Seal	0232568
18	Lower Drain Body	0232004

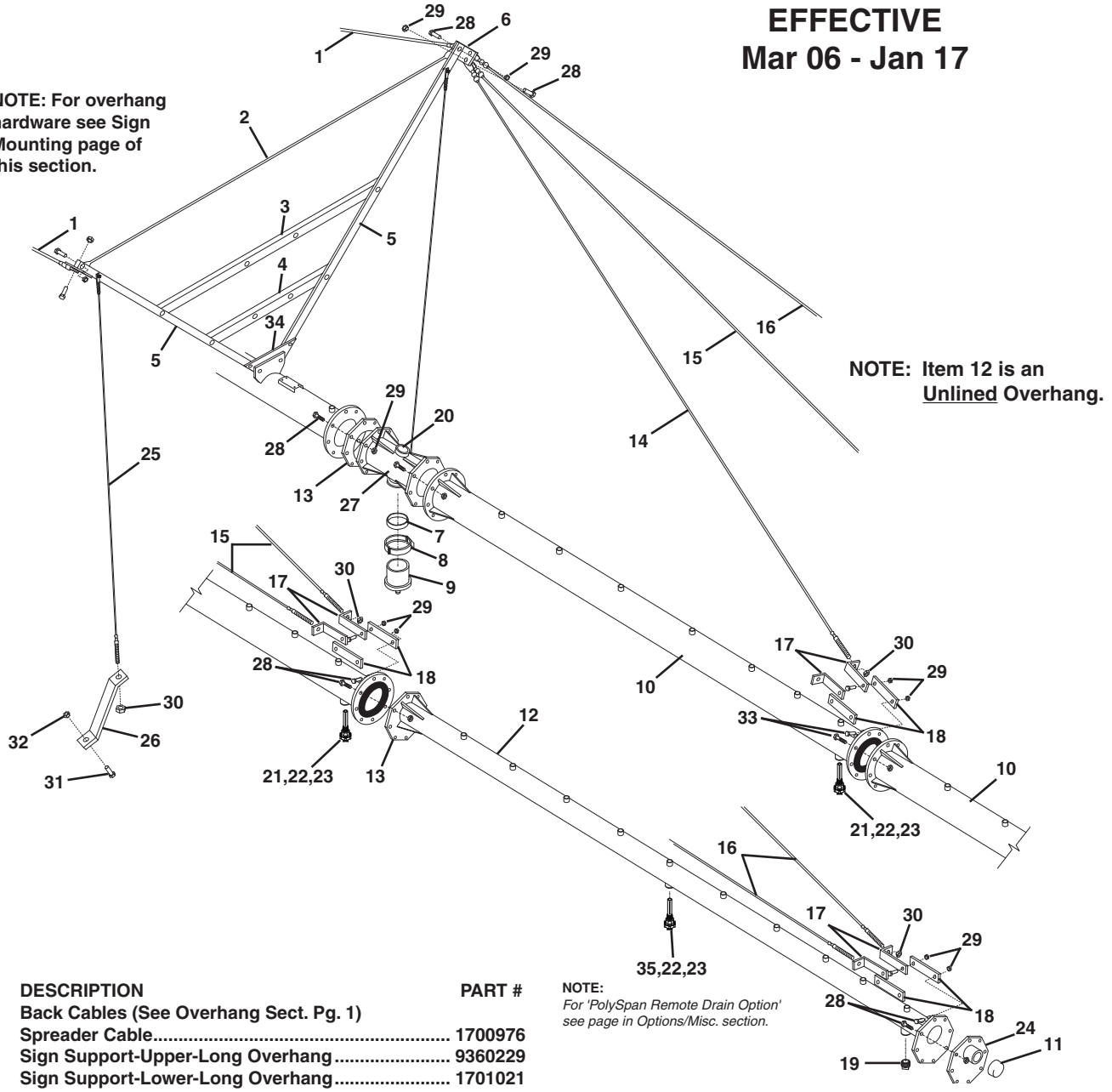
ITEM	DESCRIPTION	PART #
19	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
20	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
21	Cable Support Brkt (Std, Low & Ultra-High Prof)	1700975
	Cable Support Bracket (High Profile)	1780828
22	Spacer, Stainless Steel, w/4° Tip	9360464
23	1/2" x 2" Cap Screw	0161024
24	1/2" Lock Nut	0133005
25	1/2" x 1-1/2" Cap Screw	0161026
26	1/2" x 1-1/4" Cap Screw	0161027
27	Pipe Cap	0246046
28	3/4" Hex Nut	0131008
29	5/8" x 2" Cap Screw	0161014
30	5/8" Lock Nut	0133010
31	Trapezoid Plate	9363792

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EFFECTIVE
Mar 06 - Jan 17

NOTE: For overhang hardware see Sign Mounting page of this section.

NOTE: Item 12 is an Unlined Overhang.



NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

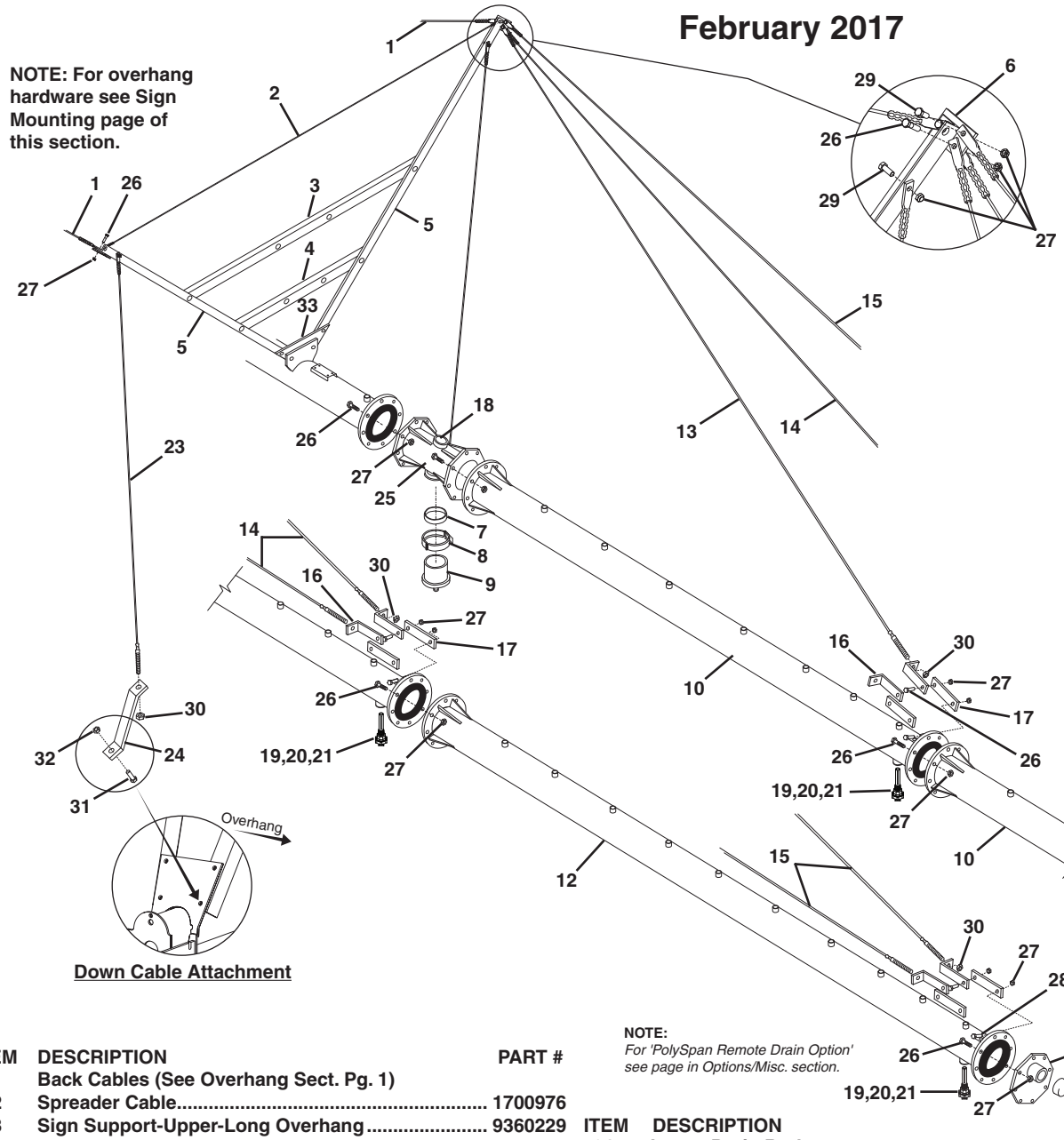
ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	18'[5.49m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp	9362693
11	Pipe Cap	0246046
12	27'[8.23m] x 4" Dia. O.H. Pipe 30"[76.2cm] Sp	1781323
13	6-5/8" Rubber Gasket	0992211
14	Overhang Support Inner Cable	9360035
15	Overhang Support Middle Cable	9360036
16	Overhang Support Outer Cable	1780204
17	Cable Support Bracket	1900024
18	Overhang Cable Extension Bracket	9360499
19	2" Pipe Plug	0246011
20	2-1/2" Pipe Plug - Galvanized	0246184
21	3/4" Upper Drain Body	0246227
22	Drain Seal	0232568

ITEM	DESCRIPTION	PART #
23	Lower Drain Body	0232004
24	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
25	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
26	Cable Support Brkt (Std, Low & Ultra-High Prof)	1700975
	Cable Support Bracket (High Profile)	1780828
27	Spacer, Stainless Steel, w/4° Tip	9360464
28	1/2" x 2" Cap Screw	0161024
29	1/2" Lock Nut	0133005
30	3/4" Hex Nut	0131008
31	5/8" x 2" Cap Screw	0161014
32	5/8" Lock Nut	0133010
33	1/2" x 2-1/2" Cap Screw	0161023
34	Trapezoid Plate	9363792
35	1" Upper Drain Body	0246170

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EFFECTIVE
February 2017

NOTE: For overhang hardware see Sign Mounting page of this section.



Down Cable Attachment

NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	18'[5.49m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362693
11	Pipe Cap	0246046
12	27'[8.23m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
13	Overhang Support Inner Cable	9360035
14	Overhang Support Middle Cable	9360036
15	Overhang Support Outer Cable	1780204
16	Cable Support Bracket	1900024
17	Overhang Cable Extension Bracket	9360499
18	2-1/2" Pipe Plug - Galvanized	0246184
19	3/4" Upper Drain Body	0246227
20	Drain Seal	0232568

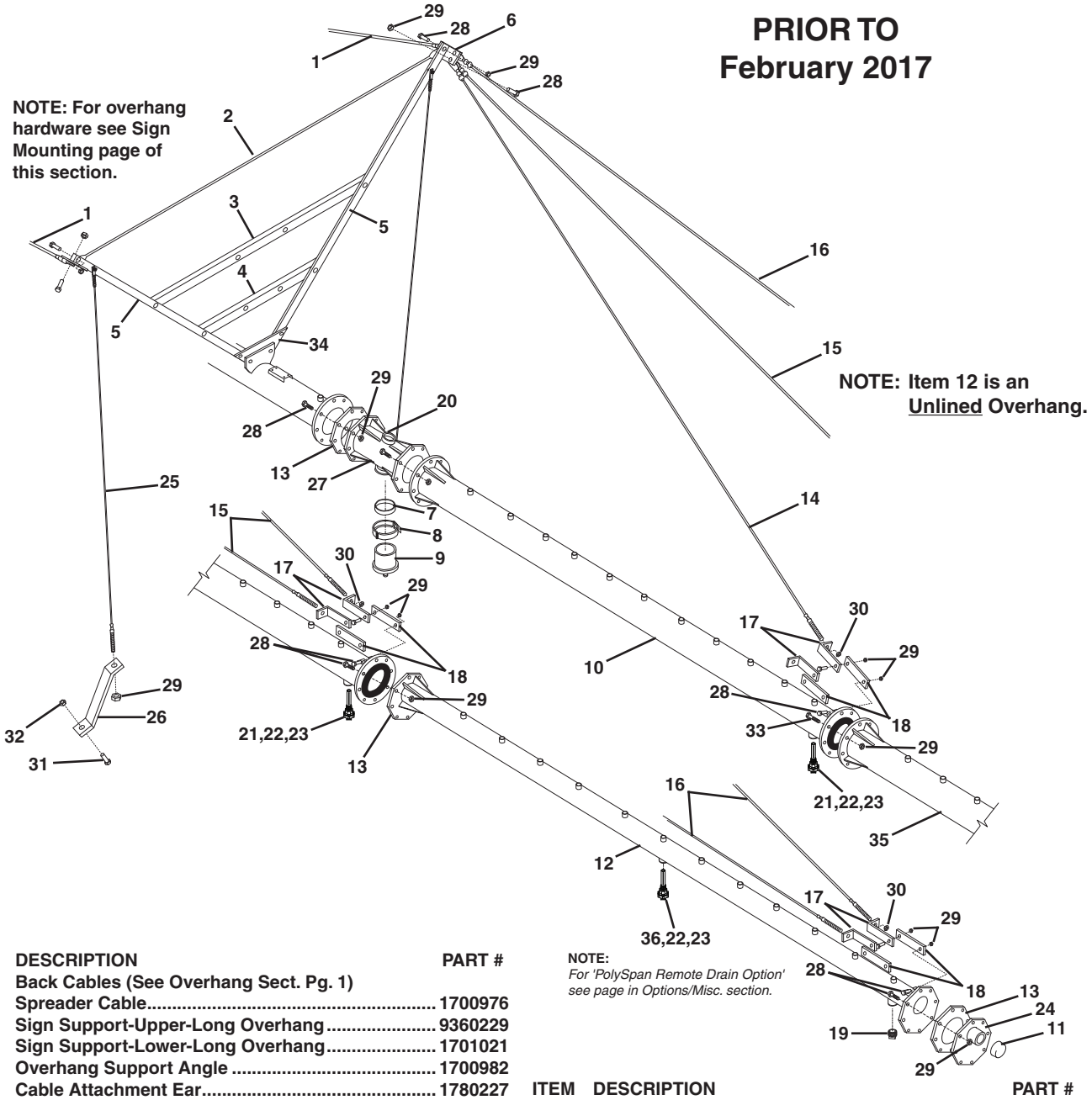
ITEM	DESCRIPTION	PART #
21	Lower Drain Body	0232004
22	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
23	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
24	Cable Support Brkt (Std, Low & Ultra-High Prof)	1700975
	Cable Support Bracket (High Profile)	1780828
25	Spacer, Stainless Steel, w/4° Tip	9360464
26	1/2" x 2" Cap Screw	0161024
27	1/2" Lock Nut	0133005
28	1/2" x 1-1/2" Cap Screw	0161026
29	1/2" x 1-1/4" Cap Screw	0161027
30	3/4" Hex Nut	0131008
31	5/8" x 2" Cap Screw	0161014
32	5/8" Lock Nut	0133010
33	Trapezoid Plate	9363792

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PRIOR TO February 2017

NOTE: For overhang hardware see Sign Mounting page of this section.

NOTE: Item 12 is an Unlined Overhang.



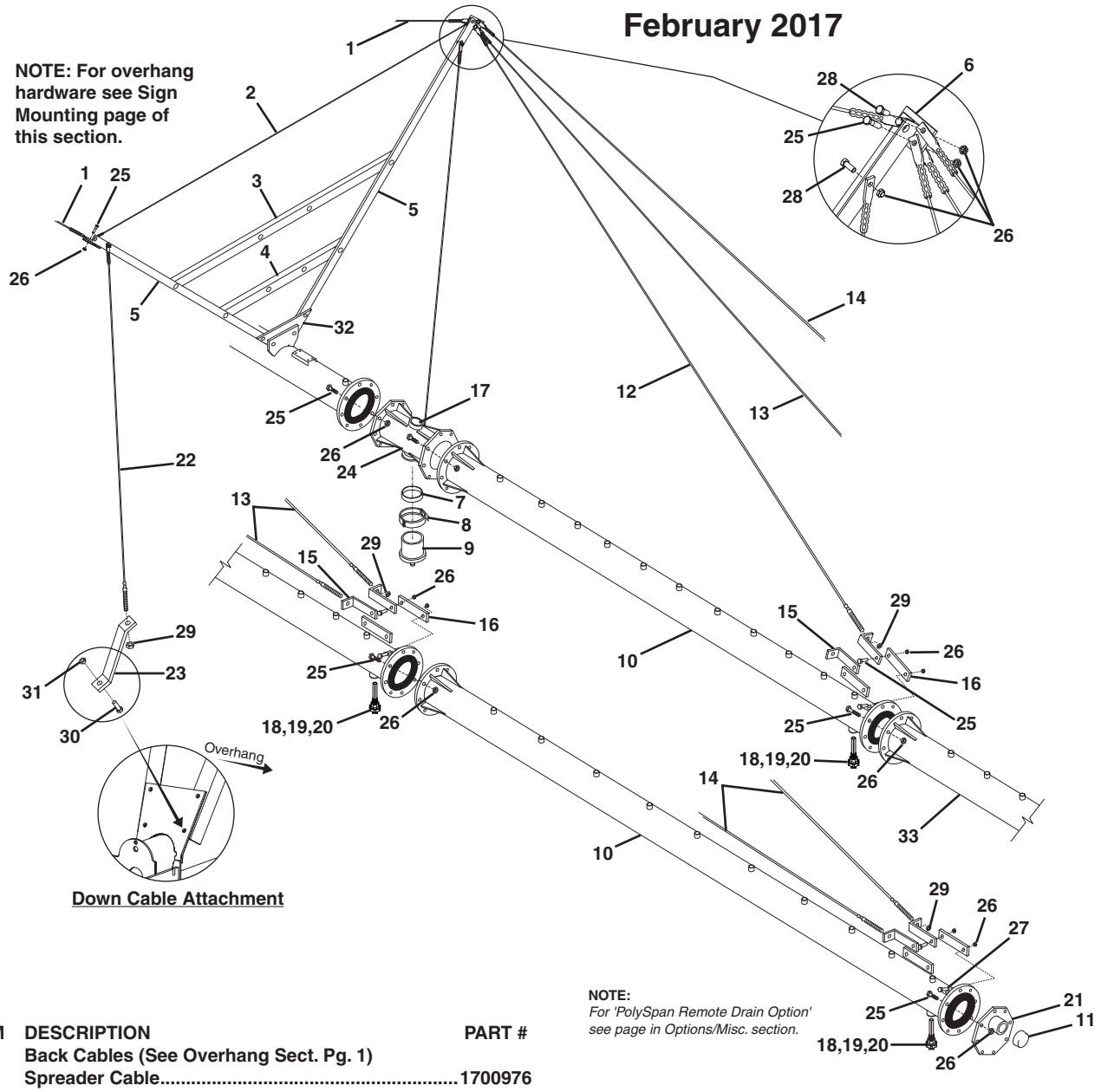
ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
11	Pipe Cap	0246046
12	27'[8.23m] x 4" Dia. O.H. Pipe 30"[76.2cm] Sp.	1781323
13	6-5/8" Rubber Gasket	0992211
14	Overhang Support Inner Cable	9360034
15	Overhang Support Middle Cable	9364496
16	Overhang Support Outer Cable	9360955
17	Cable Support Bracket	1900024
18	Overhang Cable Extension Bracket	9360499
19	2" Pipe Plug	0246011
20	2-1/2" Pipe Plug - Galvanized	0246184
21	3/4" Upper Drain Body	0246227
22	Drain Seal	0232568
23	Lower Drain Body	0232004

NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

ITEM	DESCRIPTION	PART #
24	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
25	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
26	Cable Support Brkt (Std, Low & Ultra High Prof)	1700975
	Cable Support Bracket (High Profile)	1780828
27	Spacer, Stainless Steel, w/4° Tip	9360464
28	1/2" x 2" Cap Screw	0161024
29	1/2" Lock Nut	0133005
30	3/4" Hex Nut	0131008
31	5/8" x 2" Cap Screw	0161014
32	5/8" Lock Nut	0133010
33	1/2" x 2-1/2" Cap Screw	0161023
34	Trapezoid Plate	9363792
35	18'[5.48m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362693
36	1" Upper Drain Body	0246170

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EFFECTIVE
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ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
11	Pipe Cap	0246046
12	Overhang Support Inner Cable	9360034
13	Overhang Support Middle Cable	9364496
14	Overhang Support Outer Cable	9360955
15	Cable Support Bracket	1900024
16	Overhang Cable Extension Bracket	9360499
17	2-1/2" Pipe Plug - Galvanized	0246184
18	3/4" Upper Drain Body	0246227
19	Drain Seal	0232568
20	Lower Drain Body	0232004

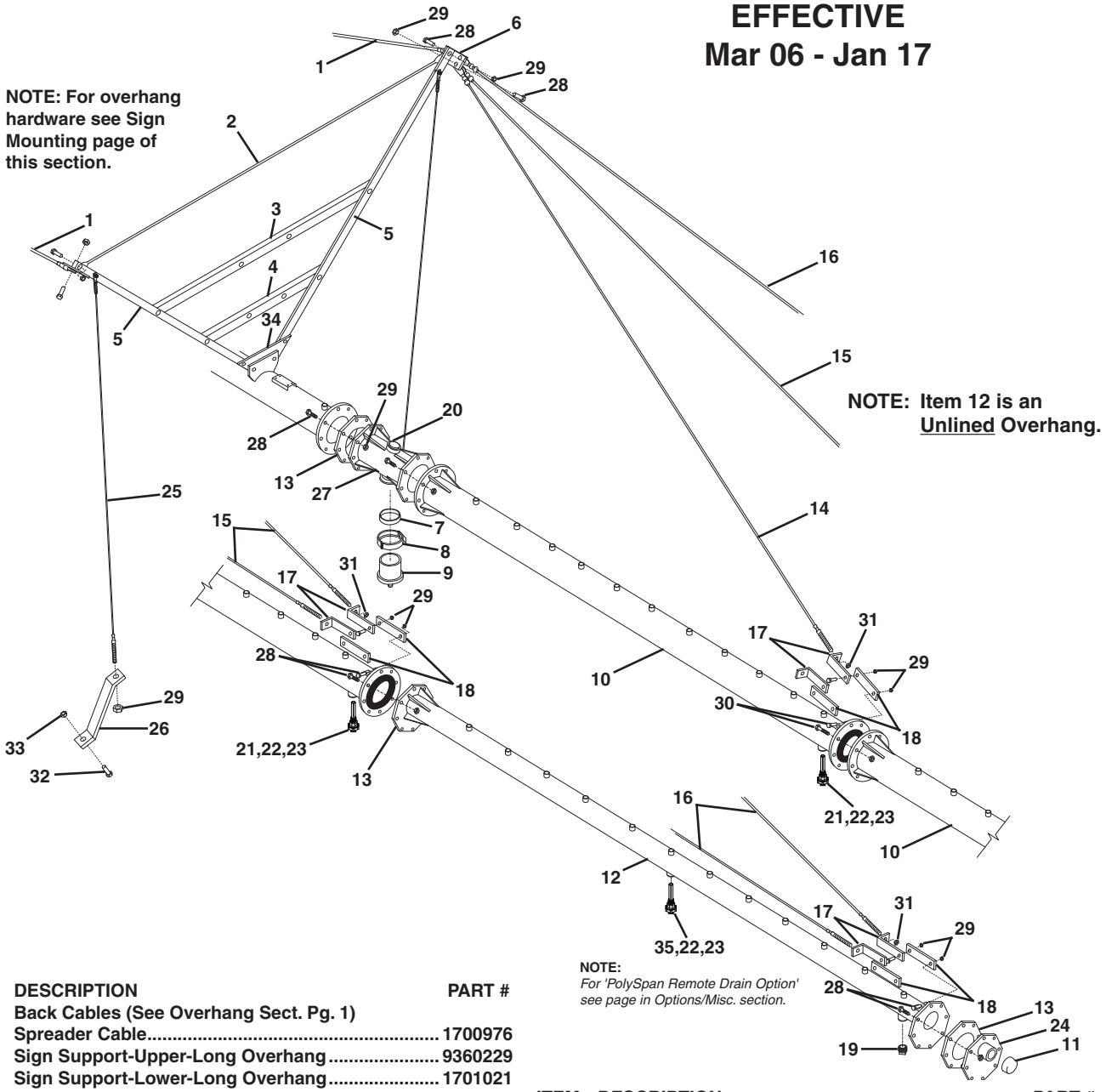
ITEM	DESCRIPTION	PART #
21	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
22	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
23	Cable Support Brkt (Std, Low & Ultra High Prof)	1700975
	Cable Support Bracket (High Profile)	1780828
24	Spacer, Stainless Steel, w/4° Tip	9360464
25	1/2" x 2" Cap Screw	0161024
26	1/2" Lock Nut	0133005
27	1/2" x 1-1/2" Cap Screw	0161026
28	1/2" x 1-1/4" Cap Screw	0161027
29	3/4" Hex Nut	0131008
30	5/8" x 2" Cap Screw	0161014
31	5/8" Lock Nut	0133010
32	Trapezoid Plate	9363792
33	18'[5.48m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362693

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EFFECTIVE
Mar 06 - Jan 17

NOTE: For overhang hardware see Sign Mounting page of this section.

NOTE: Item 12 is an Unlined Overhang.



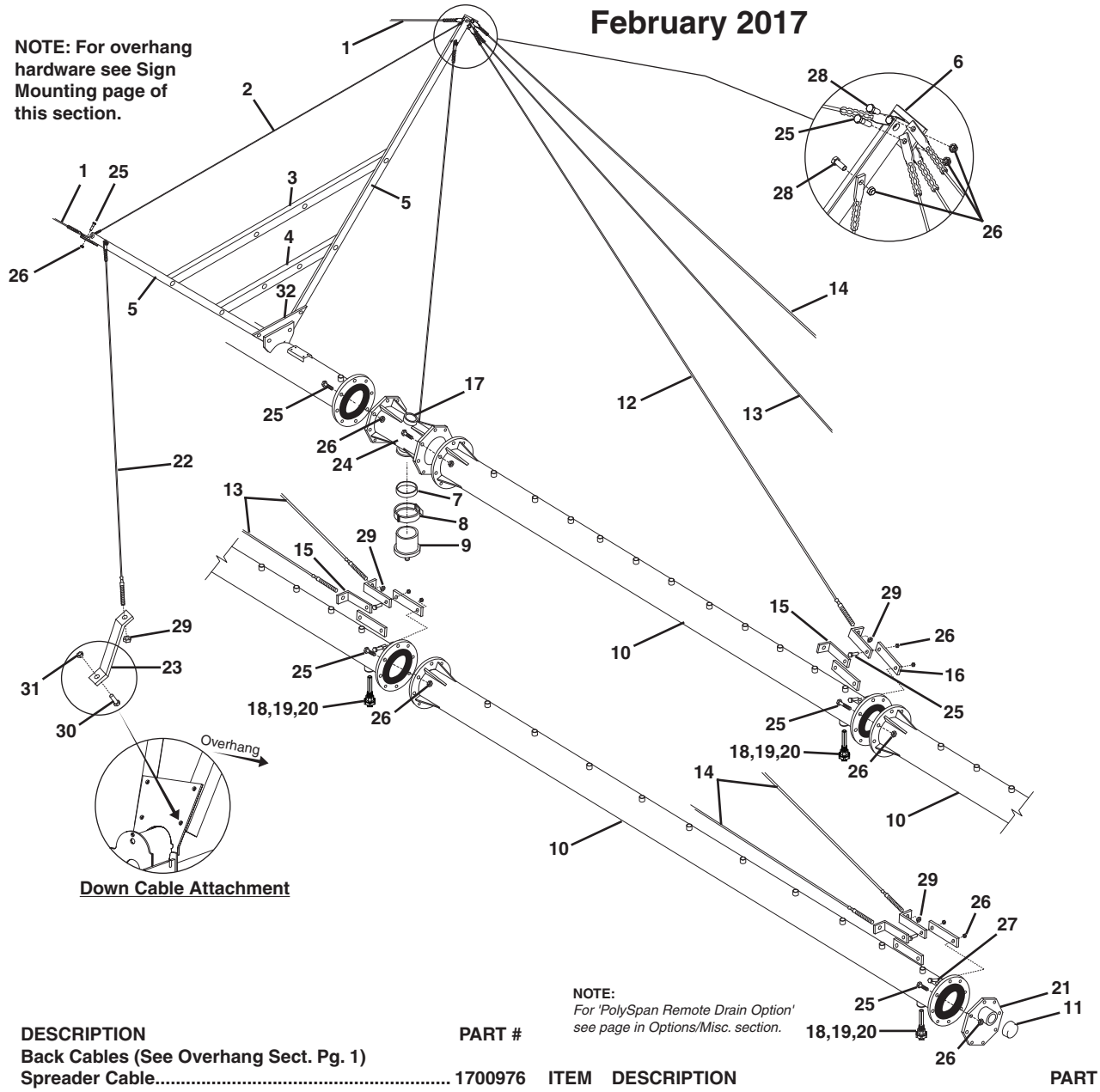
NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
11	Pipe Cap	0246046
12	27'[8.23m] x 4" Dia. O.H. Pipe 30"[76.2cm] Sp	1781323
13	6-5/8" Rubber Gasket	0992211
14	Overhang Support Inner Cable	9360034
15	Overhang Support Middle Cable	1780203
16	Overhang Support Outer Cable	1780205
17	Cable Support Bracket	1900024
18	Overhang Cable Extension Bracket	9360499
19	2" Pipe Plug	0246011
20	2-1/2" Pipe Plug - Galvanized	0246184
21	3/4" Upper Drain Body	0246227
22	Drain Seal	0232568

ITEM	DESCRIPTION	PART #
23	Lower Drain Body	0232004
24	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
25	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
26	Cable Support Brkt (Std, Low & Ultra High Prof)	1700975
	Cable Support Bracket (High Profile)	1780828
27	Spacer, Stainless Steel, w/4° Tip	9360464
28	1/2" x 2" Cap Screw	0161024
29	1/2" Lock Nut	0133005
30	1/2" 2-1/2" Cap Screw	0161023
31	3/4" Hex Nut	0131008
32	5/8" x 2" Cap Screw	0161014
33	5/8" Lock Nut	0133010
34	Trapezoid Plate	9363792
35	1" Upper Drain Body	0246170

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EFFECTIVE
February 2017

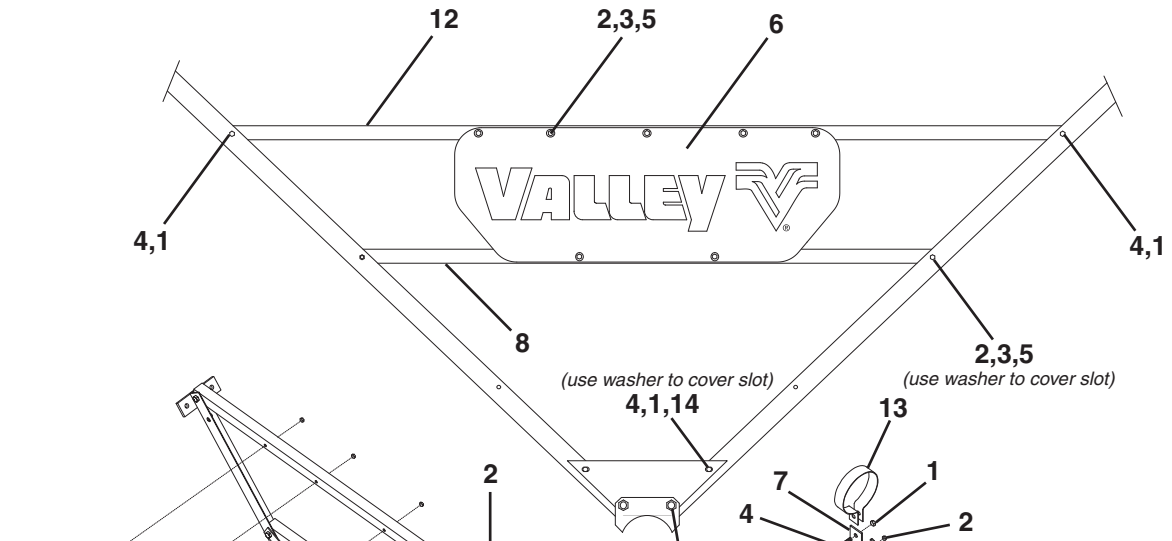


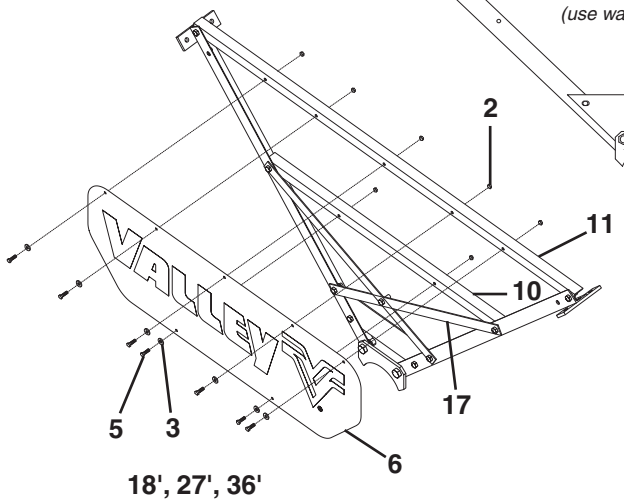
ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
11	Pipe Cap	0246046
12	Overhang Support Inner Cable	9360034
13	Overhang Support Middle Cable	1780203
14	Overhang Support Outer Cable	1780205
15	Cable Support Bracket	1900024
16	Overhang Cable Extension Bracket	9360499
17	2-1/2" Pipe Plug - Galvanized	0246184
18	3/4" Upper Drain Body	0246227
19	Drain Seal	0232568

ITEM	DESCRIPTION	PART #
20	Lower Drain Body	0232004
21	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
22	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
23	Cable Support Brkt (Std, Low & Ultra High Prof)	1700975
	Cable Support Bracket (High Profile)	1780828
24	Spacer, Stainless Steel, w/4° Tip	9360464
25	1/2" x 2" Cap Screw	0161024
26	1/2" Lock Nut	0133005
27	1/2" x 1-1/2" Cap Screw	0161026
28	1/2" x 1-1/4" Cap Screw	0161027
29	3/4" Hex Nut	0131008
30	5/8" x 2" Cap Screw	0161014
31	5/8" Lock Nut	0133010
32	Trapezoid Plate	9363792

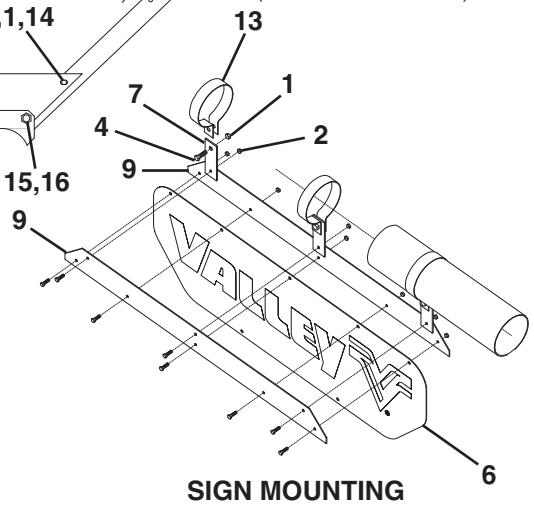
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36' HD, 54', 64', 82'
OVERHANGS





18', 27', 36'
OVERHANGS



SIGN MOUNTING
OVERHANG PIPE

ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	5/16" Lock Nut	0133007
3	5/16" Flat Washer	0142017
4	1/2" x 1-1/4" Cap Screw	0161027
5	5/16" x 1" Cap Screw	0161052
6	Valley Sign	0994656
	Valley Sign - PolySpan - DISCONTINUED Jun 18	0998245
7	Rubber Sign Hanger-5 Ply	0994657
8	Sign Support-Lower-Long Overhang	1701021
9	Sign Reinforcing Strap	9360226
10	Sign Support-Lower	9360227
11	Sign Support-Upper	9360228
12	Sign Support-Upper-Long Overhang	9360229
13	Sign Support Band (6-5/8" O.H. Pipe)	9360410*
14	1/2" Flat Washer	0142025
15	3/4" x 1-3/4" Cap Screw	0161139
16	3/4" Lock Nut	0133011
17	Brace Strap	9361716

*** NOTE: Shipped as a straight strip that must be formed around the pipeline.**

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OPTIONS / MISCELLANEOUS

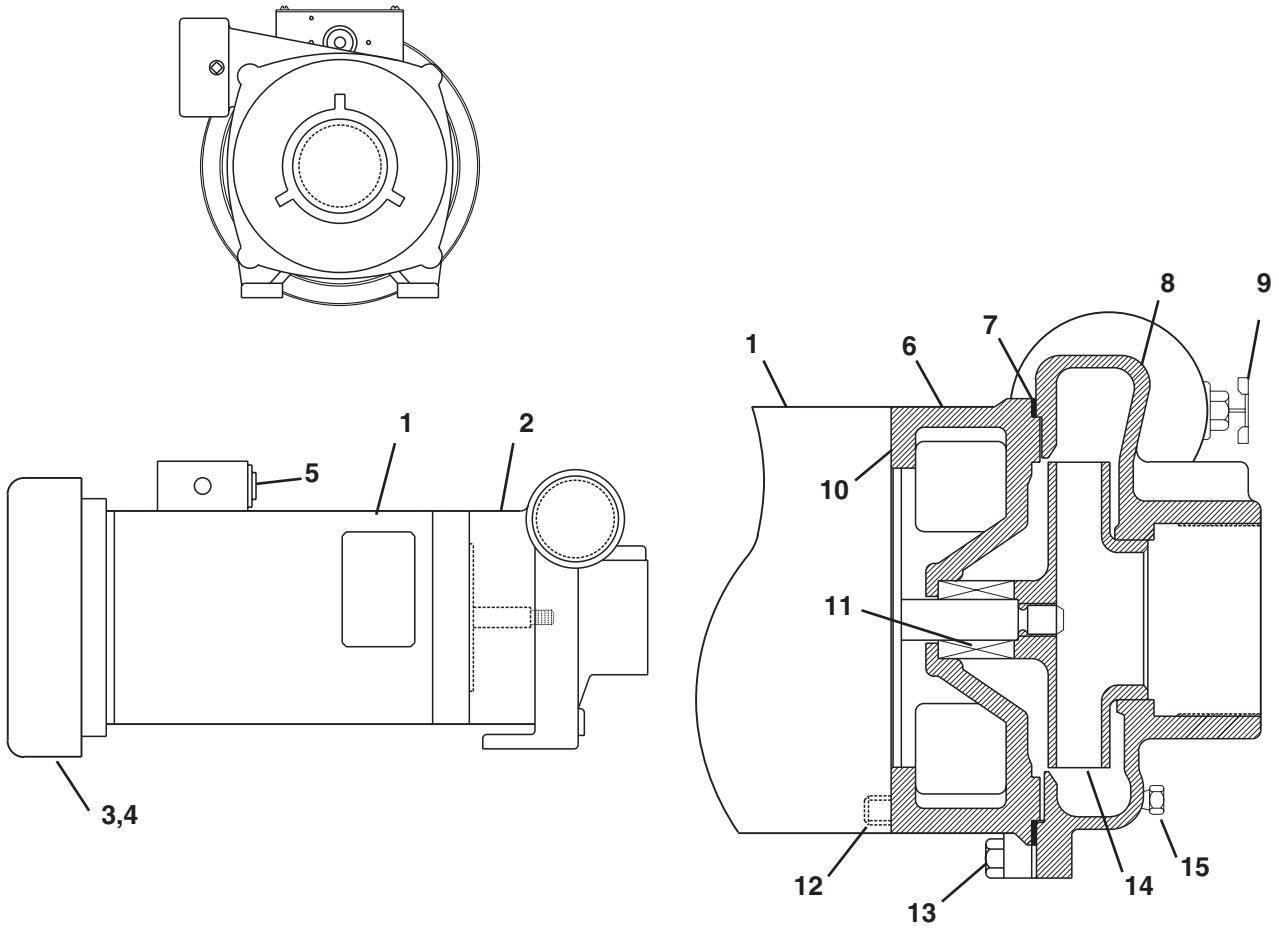
Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
2 H.P. Booster Pump	02-10	16-3
Standard 5 H.P. Booster Pump (Low Head, High Flow)	03-07	16-4
Optional 5 H.P. Booster Pump (High Head, Low Flow)	03-07	16-5
7.5 H.P. Booster Pump	09-10	16-6
Booster Pump Plumbing	12-17	16-7
Alternate Booster Pump Plumbing	12-17	16-8
End Gun Valve Plumbing w/o Booster Pump	07-17	16-9
End Gun Cross Filter Plumbing	06-06	16-10
End Gun Filter Plumbing Dirty Water	06-06	16-11
Hose Drag Cart Dirty Water Filter Plumbing	06-06	16-12
Running Light	02-19	16-13
Blue, Amber or Red Strobe Light	06-06	16-14
Strobe Running Light	11-15	16-15
Maintenance Light - Control Panel Mounting w/Vibration Mounts	01-17	16-16
Maintenance Light - Standard Control Panel Mounting	01-17	16-17
Motor Cover	11-18	16-18
Safety Caution Decals	06-06	16-19
Safety Danger Decals	03-17	16-20
Safety Warning Decals	03-12	16-21
End of Field Stop Auto Reverse Assembly	07-16	16-22
End of Field Stop Actuator Detail	02-15	16-23
Tower Junction Box	10-14	16-24
A.R.A.S. Internal Switch Box	12-17	16-25
End of Field Internal Switch Box	05-17	16-26
Booster Pump Box - with Solenoid	10-18	16-27
Booster Pump Box - without Solenoid	12-17	16-28
End of Field Safety Barricade (Skid Style)	10-15	16-29
End of Field Safety Barricade (Post Style)	07-16	16-30
Pressure Gauge Plumbing	04-07	16-31
Anti-Corrosion Anode	06-06	16-32
Hydraulic Jack	07-15	16-33
Tapered Gearbox Shims	03-10	16-34
Linear GPS Positioning (For Linear w/ AutoPilot v. 1.10 ONLY)	11-18	16-35
Power Line Carrier VRI-Z Linear for Pro2 Panel	06-18	16-36
Variable Rate Irrigation Sprinkler Control Box	06-18	16-37
Power Line Carrier VRI-Z Linear for Pro2 Panel - OPMC5	03-19	16-38
Variable Rate Irrigation Zone Intermediate Tower Box - OPMC5	03-19	16-39
VRI Tower Box Drive Unit Mounting	11-17	16-40
Heavy Duty Cable Clamp	08-08	16-41
Remote Drain	02-13	16-42
PolySpan Remote Drain	11-17	16-43
Drop Span Tower Box	10-18	16-44

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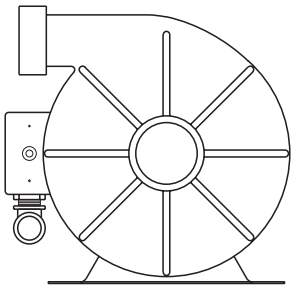
Description	Rev. #	Pg. #
Drop Span	07-12	16-45
Drop Span - Overall	08-18	16-46
Drop Span - Lifting Hardware	06-16	16-47
Drop Span - Stop Switch	07-12	16-48
Drop Span - Platform	06-15	16-49
Drop Span - Alignment Hardware	07-12	16-50
Drop Span - Komet End Gun	07-12	16-51
Drop Span - Manual End Gun	07-12	16-52
Cable Theft Deterrent - Flange Cover, Flashing & Clamps	07-12	16-53
Cable Theft Deterrent - Motor Lead Guard & Tower Box Fittings	09-18	16-54
Cable Theft Deterrent - Collector Ring Fittings	07-12	16-55
Overload Tower Box - Articulating 4-Wheel Drive	09-15	16-56
600V Lightning Arrestor	09-18	16-57

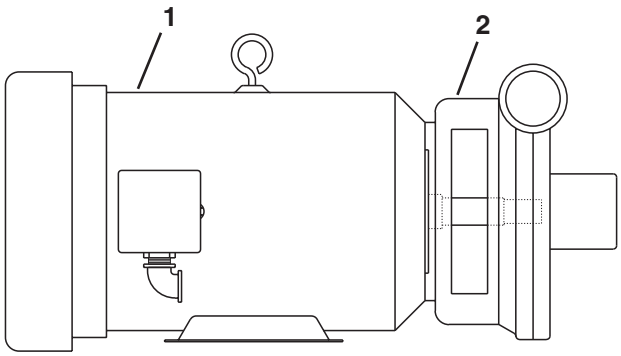
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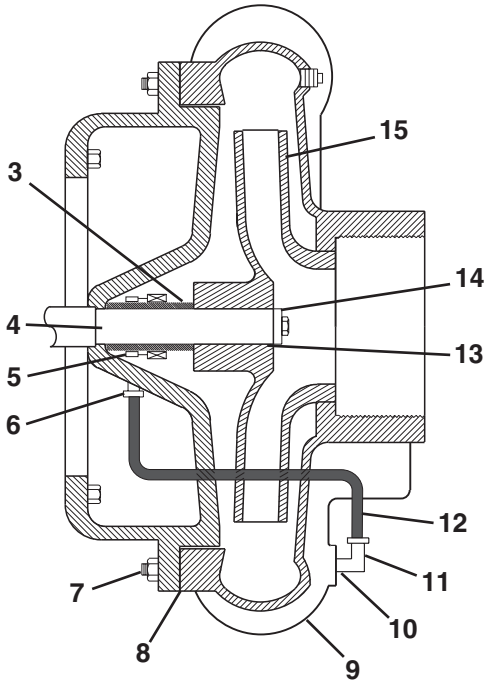


ITEM	DESCRIPTION	PART #
1	2 H.P. Motor Module	0992805
2	2 H.P. Booster Pump	0994086
3	Fan	0994391
4	Endcap Cover	0994392
5	Overload Switch Seal	0993619
6	Motor Bracket	0991653
7	Gasket	0991657
8	Volute Case w/ Stainless Steel Wear Ring	0992757
9	1/4" Drain Cock	0992756
10	Mylar Gasket	0992950
11	Mechanical Seal	0991652
12	3/8" x 3/4" Cap Screw	0161046
13	5/16" x 7/8" Cap Screw	N/A
14	Impeller, 4-17/32" Diameter	0992761
15	Pipe Plug	0992760
	Thermal Overload Protector (Not Shown)	0993661
	Thermal Overload Protector Boot (Not Shown)	0993619
	COMPLETE 2 H.P. Booster Pump	0992806

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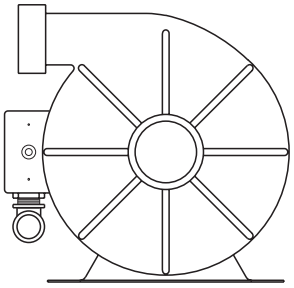


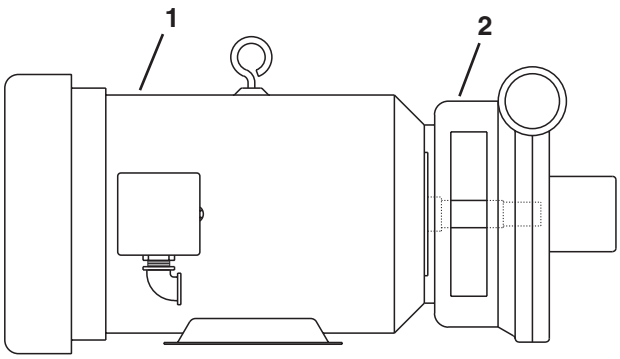


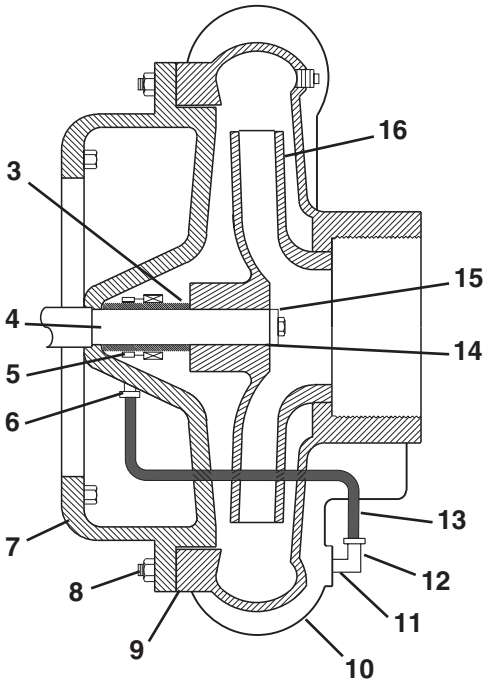


ITEM	DESCRIPTION	PART #
1	5 H.P. Motor Module	0992899
	External Fan (not show)	0993281
2	5 H.P. Booster Pump	0999517
3	Retaining Ring	0992541
4	Shaft Sleeve	0992538
5	Mechanical Shaft Seal	0992540
6	Straight Connector Fitting	0232362
7	1/2" x 1-3/4" Stud	0992537
8	Gasket Case	0992536
9	Volute Case	0992535
10	1/4" NPT x 1/8" NPT Bushing	0244024
11	90° Elbow Fitting	0232361
12	1/4" x 5' Tube	1740098
13	Impeller Key	0992544
14	Impeller Washer	0992543
15	Impeller, 5" Diameter	0993418
	Thermal Overload Protector (Not Shown)	0993662
	Thermal Overload Protector Boot (Not Shown)	0993619
	COMPLETE 5 H.P. Booster Pump w/5" Imp	0993417

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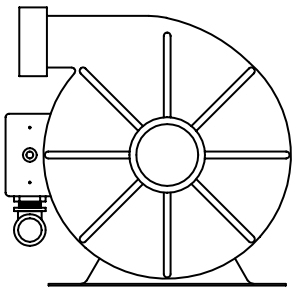


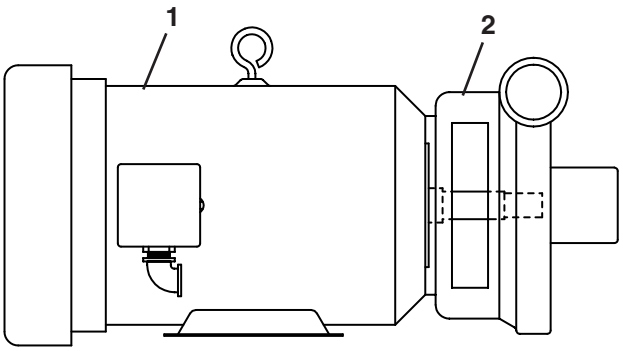


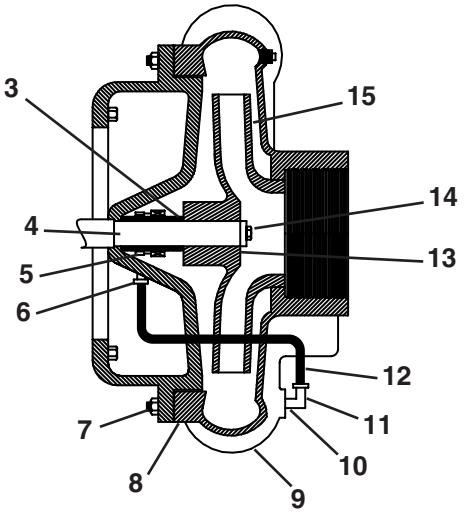


ITEM	DESCRIPTION	PART #
1	5 H.P. Motor Module	0992899
	External Fan (not shown)	0993281
2	5 H.P. Booster Pump	0993667
3	Retaining Ring	0992541
4	Shaft Sleeve	0992538
5	Mechanical Shaft Seal	0992540
6	Straight Connector Fitting	0232362
7	Motor Bracket	N/A
8	1/2" x 1-3/4" Stud	0992537
9	Gasket Case	0992536
10	Volute Case	0992901
11	1/4" NPT x 1/8" NPT Bushing	0244024
12	90° Elbow Fitting	0232361
13	1/4" x 5' Tube	1740098
14	Impeller Key	N/A
15	Impeller Washer	N/A
16	Impeller, 5-3/4" Diameter	0992903
	Thermal Overload Protector (Not Shown)	0993662
	Thermal Overload Protector Boot(Not Shown)	0993619
	COMPLETE 5 H.P. Booster Pump w/5-3/4" Imp	0992898

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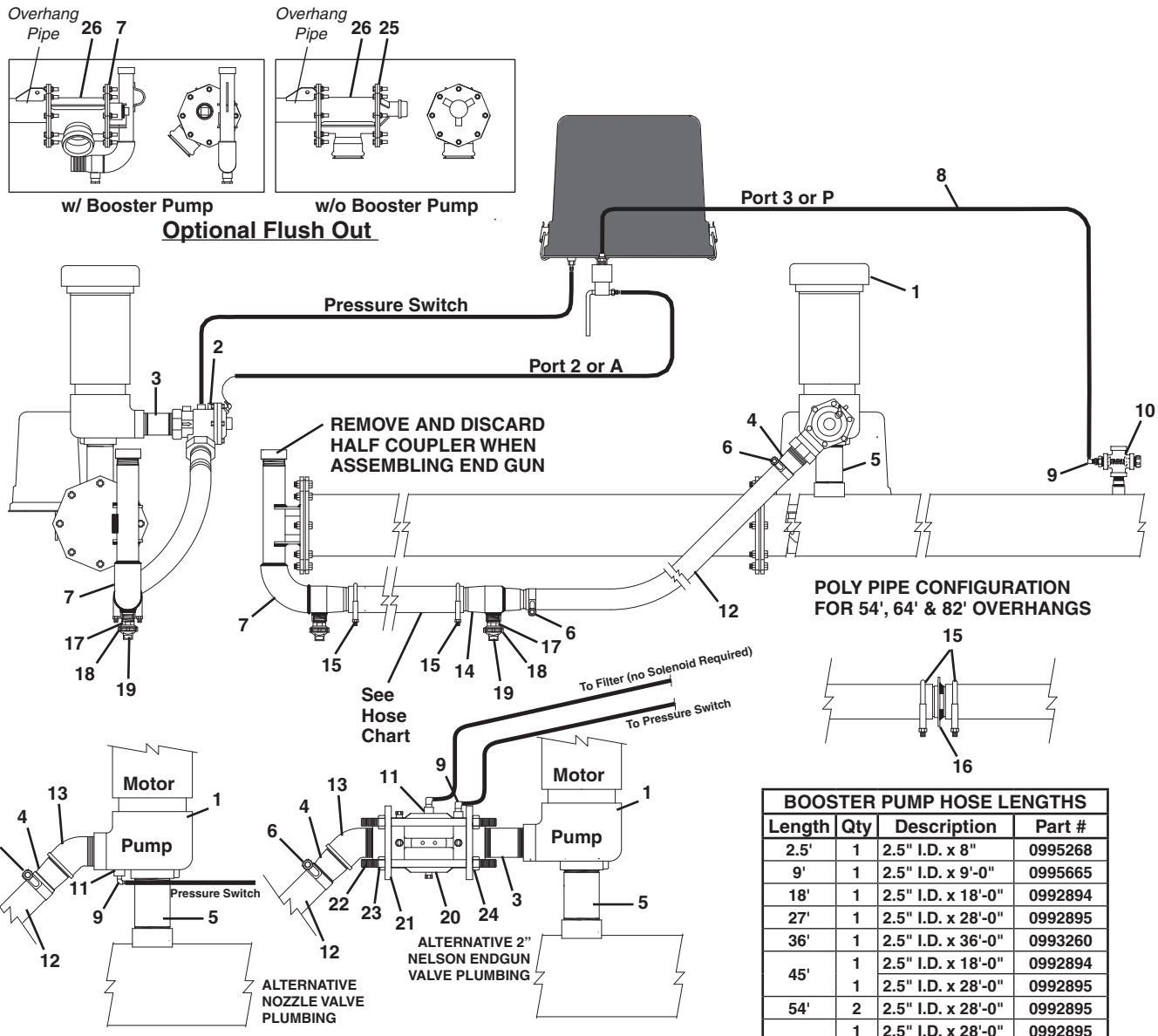






ITEM	DESCRIPTION	PART #
1	7.5 H.P. Motor Module	0992885
2	7.5 H.P. Booster Pump	0993668
3	Retaining Ring	0992541
4	Shaft Sleeve	0992538
5	Mechanical Shaft Seal	0992540
6	Straight Connector Fitting	0232362
7	1/2" x 1-3/4" Stud	0992537
8	Gasket Case	0992536
9	Volute Case	0992535
10	1/4" NPT x 1/8" NPT Bushing	0244024
11	90° Elbow Fitting	0232361
12	1/4" x 5' Tube	1740098
13	Impeller Key	0992544
14	Impeller Washer	0992543
15	Impeller, 5-5/8" Diameter	0992886
	Thermal Overload Protector (Not Shown)	0998087
	Thermal Overload Protector Boot (Not Shown)	0993619
COMPLETE 7.5 H.P. Booster Pump		0992884

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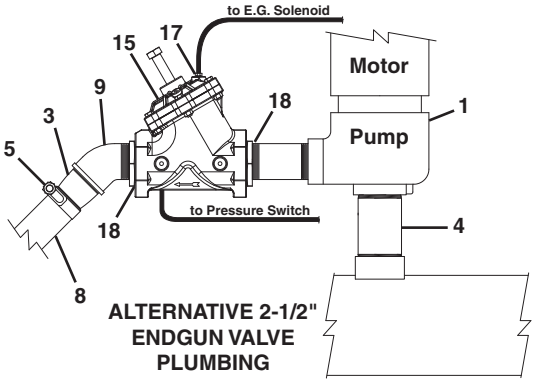


BOOSTER PUMP HOSE LENGTHS			
Length	Qty	Description	Part #
2.5'	1	2.5" I.D. x 8"	0995268
9'	1	2.5" I.D. x 9'-0"	0995665
18'	1	2.5" I.D. x 18'-0"	0992894
27'	1	2.5" I.D. x 28'-0"	0992895
36'	1	2.5" I.D. x 36'-0"	0993260
45'	1	2.5" I.D. x 18'-0"	0992894
	1	2.5" I.D. x 28'-0"	0992895
54'	2	2.5" I.D. x 28'-0"	0992895
64'	1	2.5" I.D. x 28'-0"	0992895
	1	2.5" I.D. x 36'-0"	0993260
73'	2	2.5" I.D. x 36'-0"	0993260
74'	2	2.5" I.D. x 36'-0"	0993260
82'	2	2.5" I.D. x 43'-0"	0992752

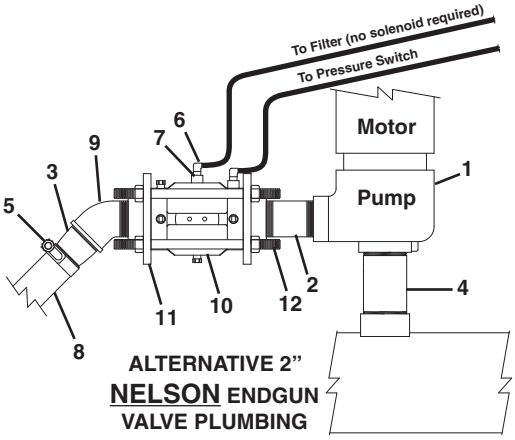
ITEM	DESCRIPTION	PART #
1	2 HP Booster Pump	0992806
	5 HP Booster Pump w/5" Impeller	0993417
	5 HP Booster Pump w/5-3/4" Impeller	0992898
	7.5 HP Booster Pump	0992884
2	2" Diaphragm Angle Valve	0232480
3	2" x 4-1/2" Nipple	0211047
4	2" Hose Insert	0271035
5	2-1/2" x 6" Nipple	0211156
6	Hose Clamp - 2.69" max / 2.38" min	0271085
7	O/H Endplate Assm. - for End Gun & Booster Pump	9360136
8	1/4" Tube - 0.304" O.D. x 12' Long	1701789
9	Elbow Tube Insert	0232361
10	3/4" Filter Cross	9360897
	3/4" Cross	0242048
	Filter Element	0311020
	3/4" Plug	0246193
	3/4" x 1/4" Reducer (Galvanized)	0244046
	1/4" x 1/8" Reducer	0244024
	3/4" x 2" Nipple (Galvanized)	0211014
11	1/4" x 1/8" Bushing	0244024
12	2" x 36" Reinforced Hose	0272034

ITEM	DESCRIPTION	PART #
13	2" x 45° Street Elbow	0241053
14	2" x 2-1/2" Hose Insert Splice	9360137
15	2-3/4" Muffler Clamp	0271059
16	2-1/2" Hose Splice	1702676
17	Upper Drain Body	0232023
18	Drain Seal	0232568
19	Lower Drain Body	0232004
20	2" Nelson Endgun Valve	0232504
21	2" FNPT x ANSI Flange Adapter	0996405
22	5/8" x 11" All Thread	0996408
23	5/8" Hex Nut	0131009
24	5/8" Flat Washer	0142034
25	6-5/8" Endplate Assm.	1800036
26	6" Flush Out Stub Assm. w/ 4" Drain	9360312
	Flush Out Install Kit (incl. cap screws(8) & lock nuts(8))	KA02427

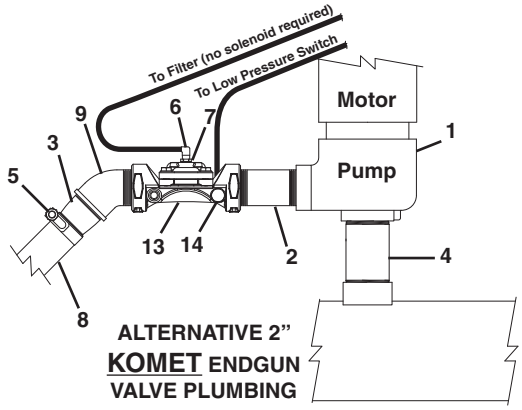
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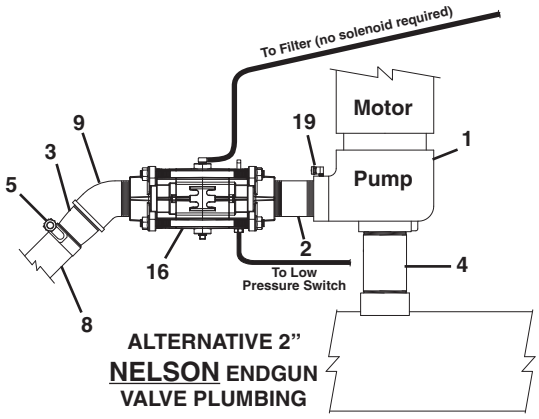
ALTERNATIVE 2-1/2" ENDGUN VALVE PLUMBING



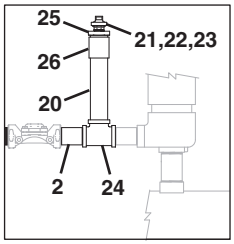
ALTERNATIVE 2" NELSON ENDGUN VALVE PLUMBING



ALTERNATIVE 2" KOMET ENDGUN VALVE PLUMBING



ALTERNATIVE 2" NELSON ENDGUN VALVE PLUMBING



AIR RELIEF KIT
(For either Nelson or Komet Valve application

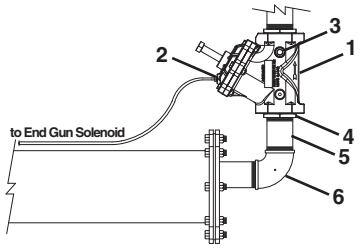
ITEM	DESCRIPTION	PART #
1	2 HP Booster Pump	0992806
	5 HP Booster Pump w/5" Impeller	0993417
	5 HP Booster Pump w/5-3/4" Impeller	0992898
	7.5 HP Booster Pump	0992884
2	2" x 4-1/2" Nipple	0211047
3	2" Hose Insert	0271035
4	2-1/2" x 6" Nipple	0211156
5	Hose Clamp - 2.69" max / 2.38" min	0271085
6	Elbow Tube Insert	0232361
7	1/4" x 1/8" Bushing	0244024
8	2" x 36" Reinforced Hose	0272034
9	2" x 45° Street Elbow	0241053
10	2" Nelson Endgun Valve	0232504
11	2" FNPT x ANSI Flange Adapter	0996405
12	Stud Kit - 1/2" x 8.25" (incl. 4 Studs & 8 Flanged Nuts)	0990217
13	2" Komet Endgun Valve	0232557
14	Komet Automatic Drain Valve	0232558
15	2-1/2" Diaphragm Valve	0232323
16	2" Nelson 1000P-V Valve	0232585
17	MFL Connector - Tube to Male Pipe	0232362
18	2-1//2" x 2" Bushing - Galvanized	0244021
19	Ball / Drain Vent	0232566
20	2" NPT x 10" Nipple - Galvanized	0211004*
21	Lower Drain Body	0232004*
22	Upper Drain Body	0232023*
23	Drain Seal	0232568*
24	2" x 2" x 2" Tee Fitting - Galvanized	0242008*
25	2" x 1" Reducer Fitting - Galvanized	0244028*
26	2" Coupler - Galvanized	0245001*

* Air Relief Kit (also includes (1) 2" x 4-1/2" Nipple (Item 2) .. 9364627

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2-1/2" END GUN VALVE

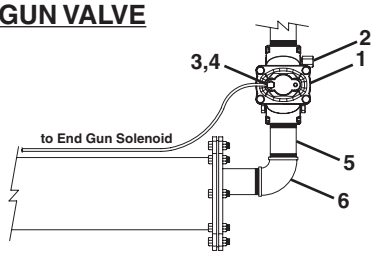
ITEM	DESCRIPTION	PART #	
1	2-1/2" Diaphragm End Gun Valve	0232323	*
2	MFL Connector - Tube to Male Pipe	0232362	*
3	Bleeder Plug	0232440	*
4	2-1/2" x 2" Reducer - Galvanized	0244021	
5	2" x 4" Nipple - Galvanized	0211047	
6	End Gun Elbow	1926125	
	Diaphragm & Seal Kit	0232297	
	Internal Parts Kit	0232298	
	End Gun Shutoff 2" Valve Kit	KA00023	



*NOTE: Items included with End Gun Valve 0232323.
Elbow Fitting (0232361) also included.

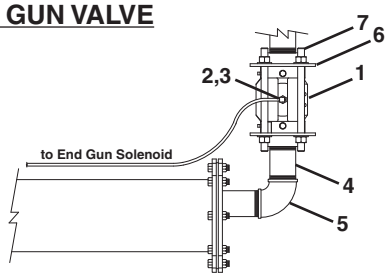
2" KOMET END GUN VALVE

ITEM	DESCRIPTION	PART #	
1	2" Komet End Gun Valve	0232557	*
2	Automatic Drain Valve	0232558	*
3	Elbow Fitting - Tube to Male Pipe	0232361	
4	1/4" x 1/8" Reducer Bushing - Galvanized	0244024	
5	2" x 4" Nipple - Galvanized	0211047	
6	End Gun Elbow	1926125	
	*2" Komet End Gun Valve Kit	KA09903	
	Drain Plug w/Hole (0232559) also included.		
	End Gun Shutoff 2" Valve Kit	KA00023	



2" NELSON END GUN VALVE

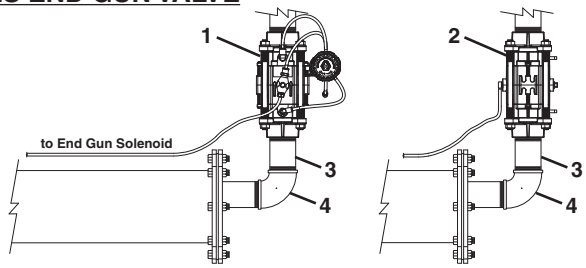
ITEM	DESCRIPTION	PART #	
1	2" Nelson End Gun Valve	0232504	*
2	Elbow Fitting - Tube to Male Pipe	0232361	
3	1/4" x 1/8" Reducer Bushing - Galvanized	0244024	
4	2" x 4" Nipple - Galvanized	0211047	
5	End Gun Elbow	1926125	
6	2" FNPT x ANSI Flange Adapter	0996405	*
7	Stud Kit - 1/2" x 8.25"	0980217	*
	*2" Nelson End Gun Valve Kit	KA02141	
	End Gun Shutoff 2" Valve Kit	KA00023	



2" NELSON 1000 SERIES END GUN VALVE

ITEM	DESCRIPTION	PART #	
1	2" Nelson 1000P-RX End Gun Valve	0232586	
2	2" Nelson 1000P-X End Gun Valve	0232587	
3	2" x 4" Nipple - Galvanized	0211047	
4	End Gun Elbow	1926125	
	Nelson 1000P-RX Valve Kit - Non-Booster Pump	KA02664	
	Nelson 1000P-X Valve Kit - Non-Booster Pump	KA02665	

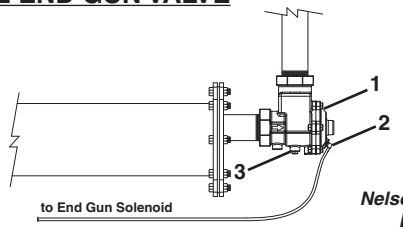
*NOTE: Ball / Drain Vent (0232566) included with End Gun Valves.



2" DIAPHRAGM ANGLE END GUN VALVE

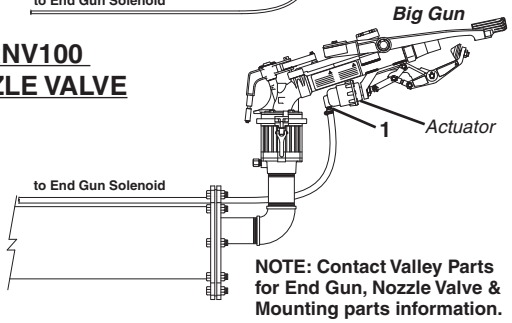
ITEM	DESCRIPTION	PART #	
1	2" Diaphragm Angle End Gun Valve	0232480	
2	Elbow Fitting - Tube to Male Pipe	0232361	*
3	Bleed Plug	0232440	*
	Diaphragm & Seals Kit	0232488	
	Internal Parts Kit (normally open model)	0232489	
	End Gun Shutoff 2" Valve Kit	KA00023	

*NOTE: Items included with End Gun Valve 0232480.



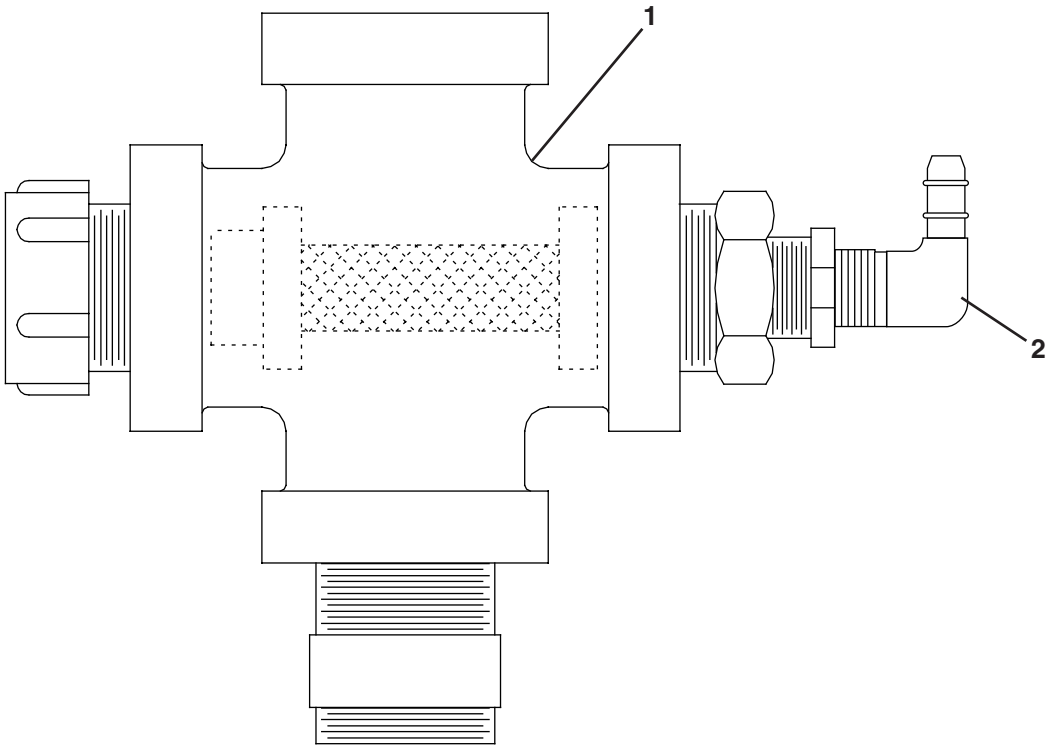
NELSON SRNV100 END GUN NOZZLE VALVE

ITEM	DESCRIPTION	PART #
1	MFL Connector - Tube to Male Pipe	0232362



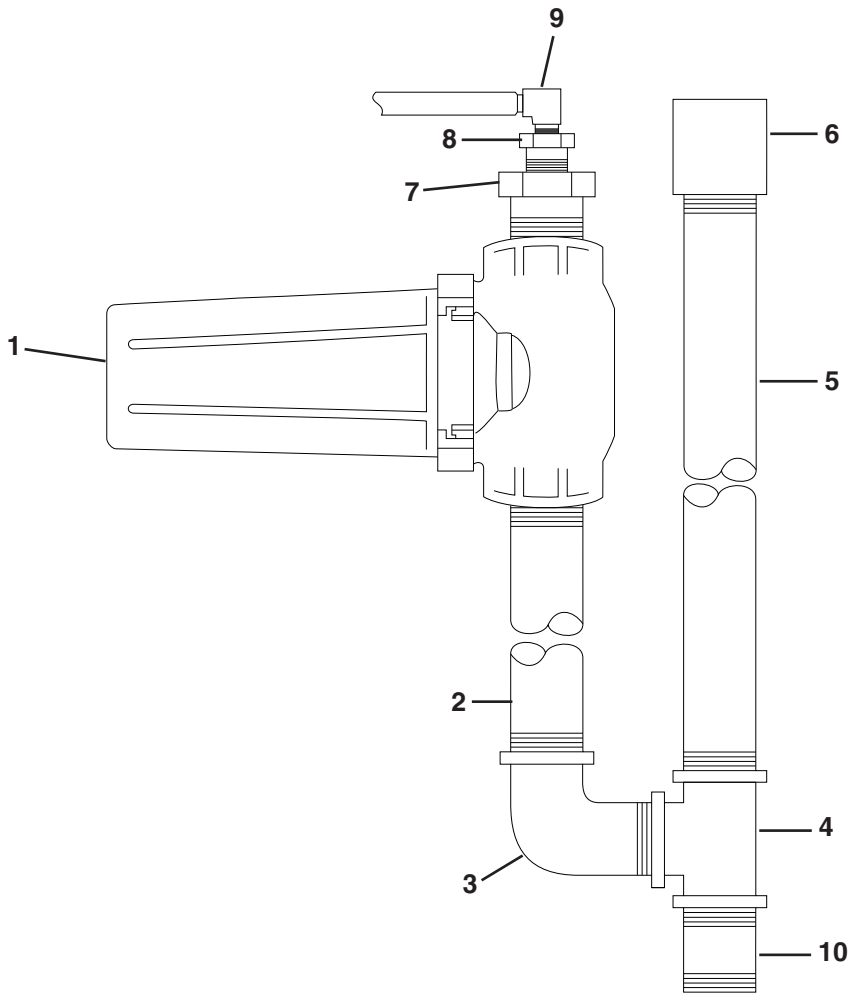
NOTE: Contact Valley Parts for End Gun, Nozzle Valve & Mounting parts information.

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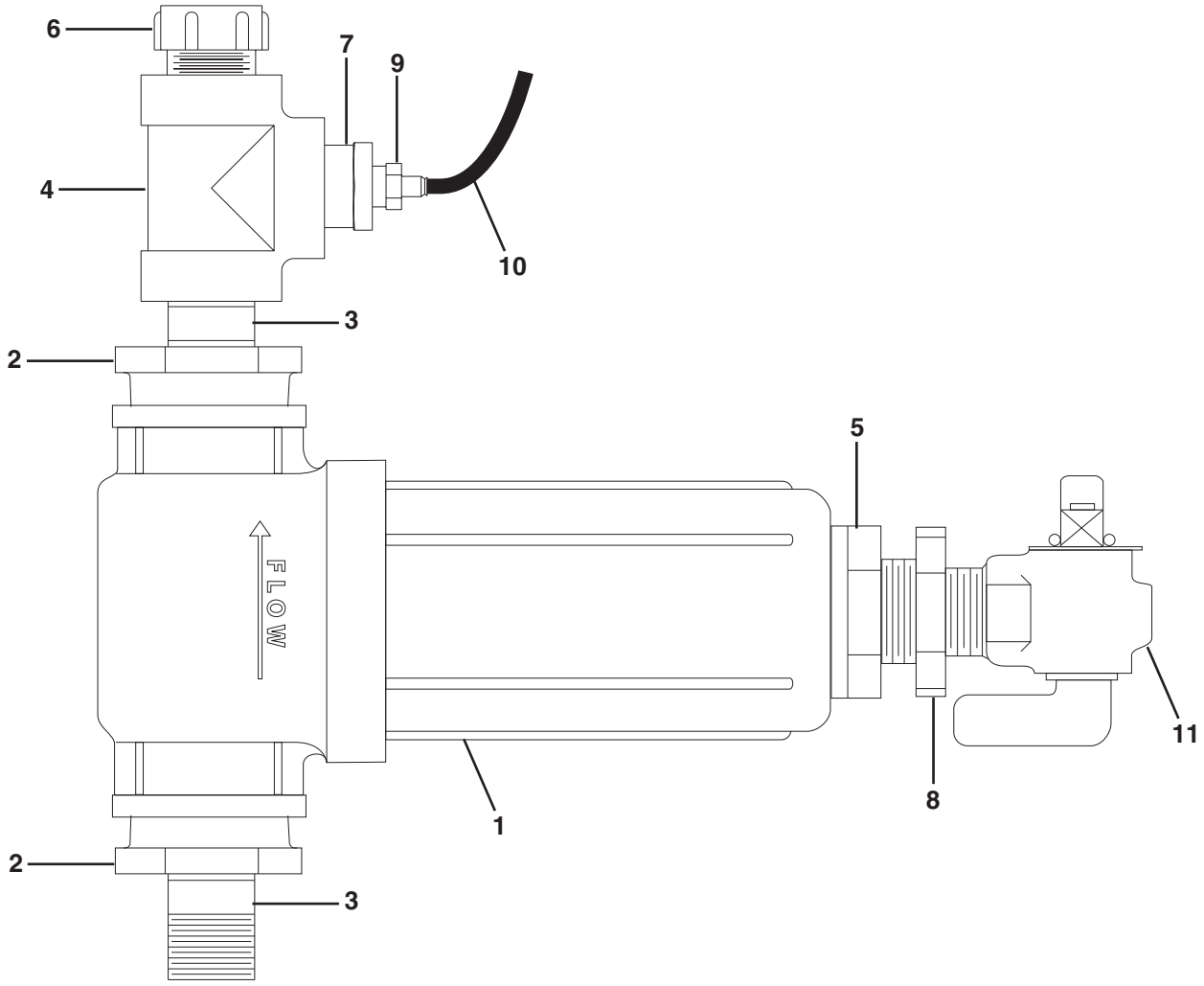
ITEM	DESCRIPTION	PART #
1	3/4" Filter Complete	9360897
	3/4" Cross	0242048
	Filter Element	0311020
	3/4" Plug	0246193
	3/4" x 1/4" Reducer	0244046
	1/4" x 1/8" Reducer	0244024
	3/4" x 2" Galvanized Nipple	0211014
2	Right Angle Tube Fitting	0232361

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ITEM	DESCRIPTION	PART #
1	3/4" Filter Complete	0311016
	Filter Base	0311017
	Screen	0311018
	Canister	0311019
	"O" Ring	0256030
2	3/4" x 8" Nipple PVC	0211112
3	3/4" x 90° Street Elbow	0241075
4	3/4" x 3/4" x 3/4" Tee	0242002
5	3/4" x 24" Nipple	0211133
6	3/4" Coupler	0245005
7	3/4" x 1/4" Pipe Bushing PVC	0244046
8	1/4" x 1/8" Pipe Bushing	0244024
9	Right Angle Tube Fitting	0232361
10	3/4" x 2" Galvanized Nipple	0211014
	COMPLETE End Gun Filter Package	KA09595

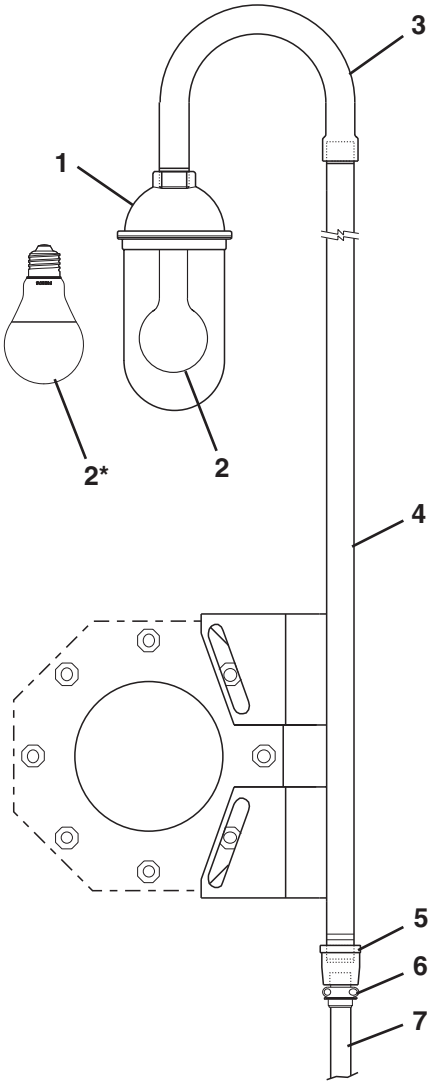
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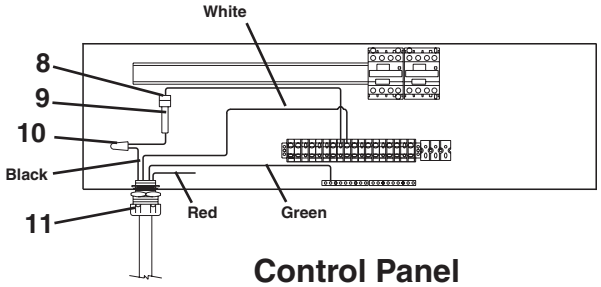


ITEM	DESCRIPTION	PART #
1	1-1/2" Filter Complete	0311013
	Screen	0311014
	Canister	0311015
	"O" Ring	0256030
2	1-1/2" x 3/4" Reducer Bushing	0244036
3	3/4" x 2" Nipple	0211014
4	3/4" x 3/4" x 3/4" Tee	0242002
5	Bulkhead Fitting	1750640
6	3/4" Plug (Plastic)	0246193
7	3/4" x 1/4" Pipe Bushing (Galvanized)	0244025
8	1/2" x 3/8" Reducer Bushing	0244010
9	1/4" NPT x 1/4" Tube Connector	0232366
10	1/4" x 30' Tube	1740101
11	3/8" Drain	0232015

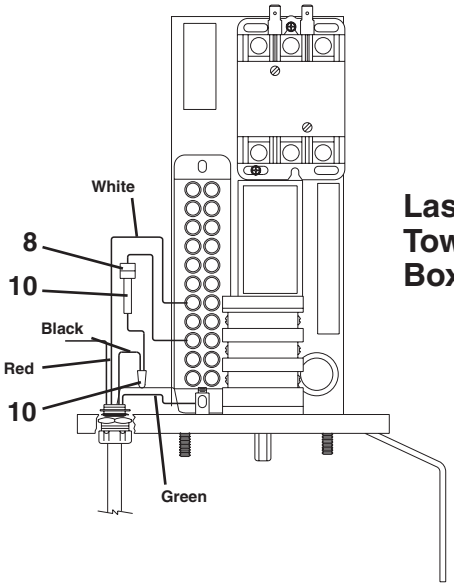
COMPLETE Filter Package for Linear Hose Drag Cart... KA09597

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Control Panel

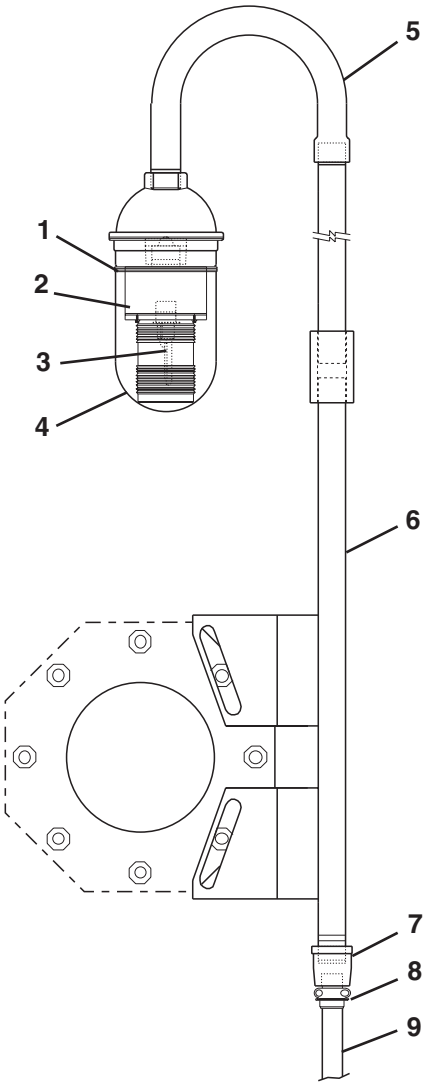


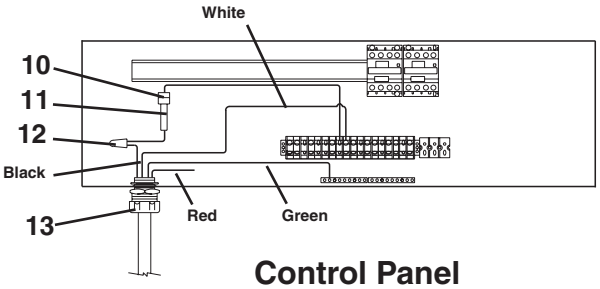
Last Tower Box

ITEM	DESCRIPTION	PART #
1	Globe & Pendant Assembly	0315737
2	69 Watt Bulb	0314820
	9W or 9.5W LED Bulb (60 or 75W Equivalent)	03E3825*
3	3/4" NPT U-Pipe Drop, 6" Long	0246117
4	Universal Mounting Bracket	1781544
5	3/4" x 1/2" Reducer	0243002
6	1/2" Romax Connector	0314161
7	4 Cond. 14 Gauge Cable, 20' Long	1810286
8	Inline Fuse Holder	0314882
9	1.5 Amp Fuse	0314858
10	Scotchlok Connector	0314151
11	1/2" Cord Connector	0314119

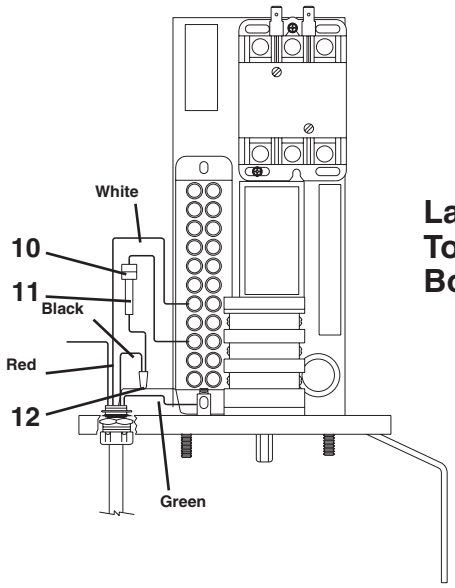
*** NOTE: LED Bulb can be used as an alternate.**

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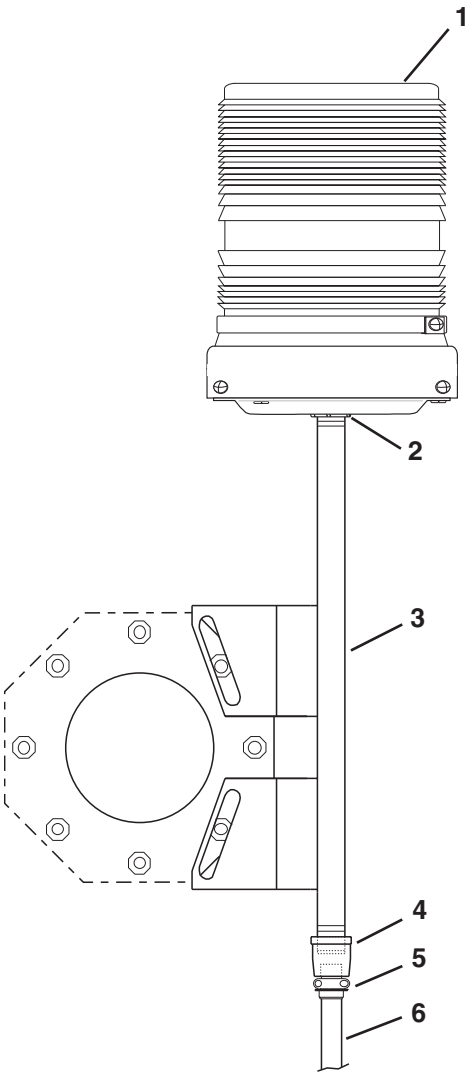
Control Panel

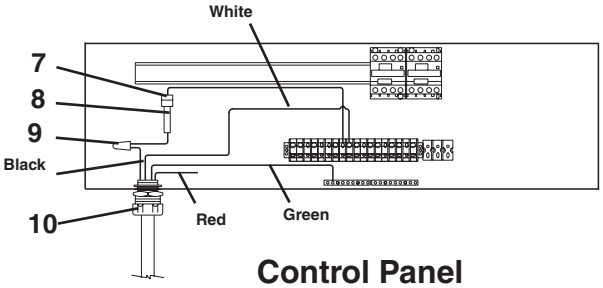


Last Tower Box

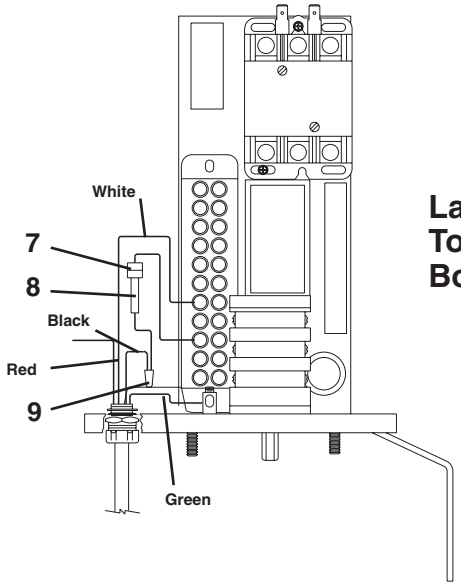
ITEM	DESCRIPTION	PART #
1	Globe Gasket	0995205
2	Amber Strobe Bulb	03E1660
	Blue Strobe Bulb	03E1661
	Red Strobe Bulb	03E1885
	Clear Strobe Bulb	03E2149
3	Replacement Lamp	03E1803
4	Globe & Pendant Assembly	0315737
5	3/4" NPT U-Pipe Drop, 6" Long	0246117
6	Universal Mounting Bracket	1781544
7	3/4" x 1/2" Reducer	0243002
8	1/2" Romax Connector	0314161
9	4 Cond. 14 Gauge Cable, 20' Long	1810286
10	Inline Fuse Holder	0314882
11	1.5 Amp Fuse	0314858
12	Scotchlok Connector	0314151
13	1/2" Cord Connector	0314119
	COMPLETE Amber Strobe Bulb Pkg	0000C30
	COMPLETE Blue Strobe Bulb Pkg	0000C29
	COMPLETE Red Strobe Bulb Pkg	0000C54
	COMPLETE Clear Strobe Bulb Pkg	0000E18

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Control Panel

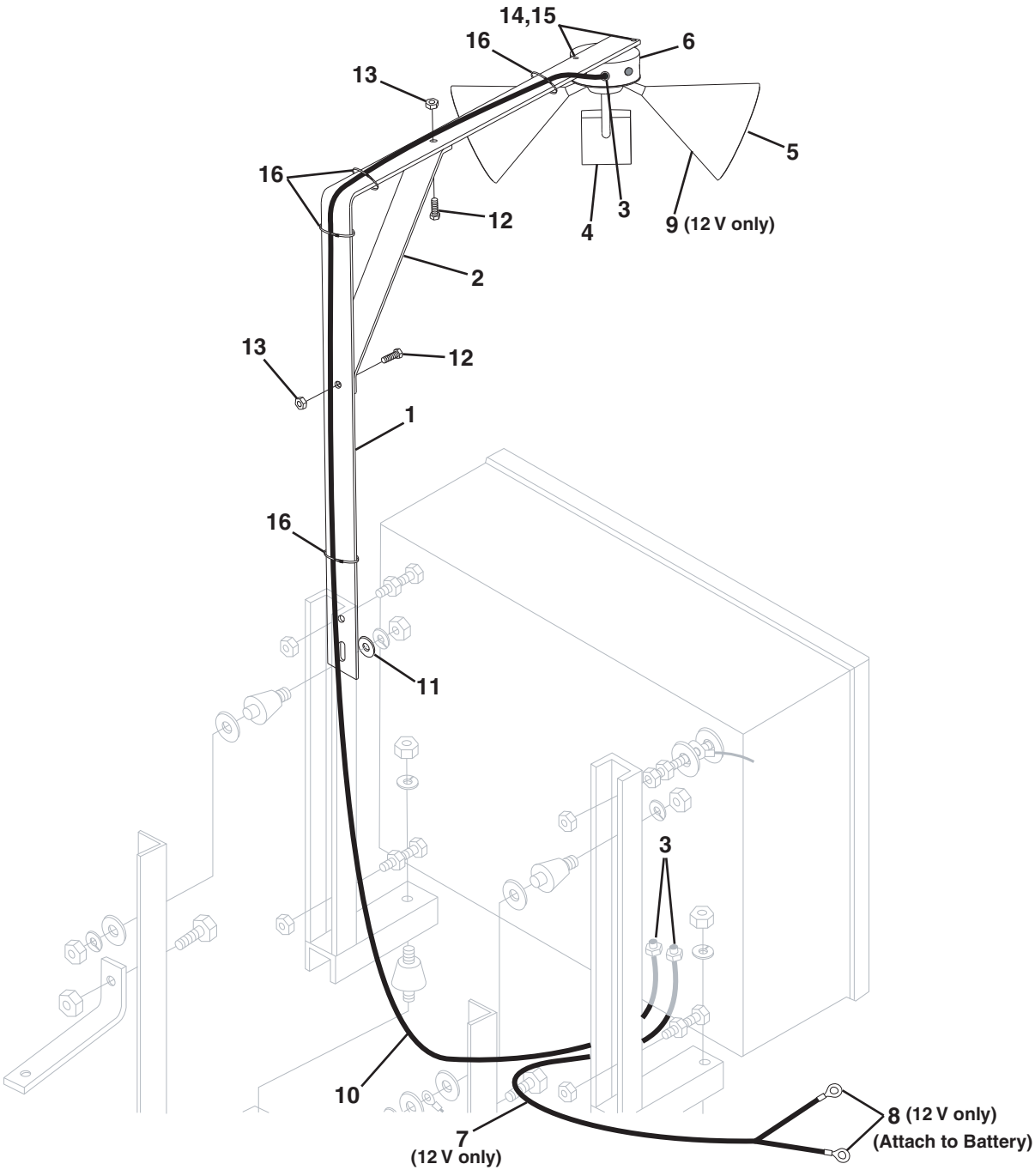


Last Tower Box

ITEM	DESCRIPTION	PART #
1	Strobe Running Light - 120V	03E1356
	Strobe Tube Replacement	03E1357
2	3/4" NPT Romax Lock Nut	0315132
3	Universal Mounting Bracket	1781544
4	3/4" x 1/2" Reducer	0243002
5	1/2" Romax Connector	0314161
6	4 Cond. 14 Gauge Cable, 20' Long	1810286
7	Inline Fuse Holder	0314882
8	1.5 Amp Fuse	0314858
9	Scotchlok Connector	0314151
10	1/2" Cord Connector	0314119

COMPLETE Running Light (Flashing) Retro-Fit Pkg..... 0000794
COMPLETE Running Light (Flashing) Retro-Fit Pkg.(8" Sys.) - OBSOLETED 0000795

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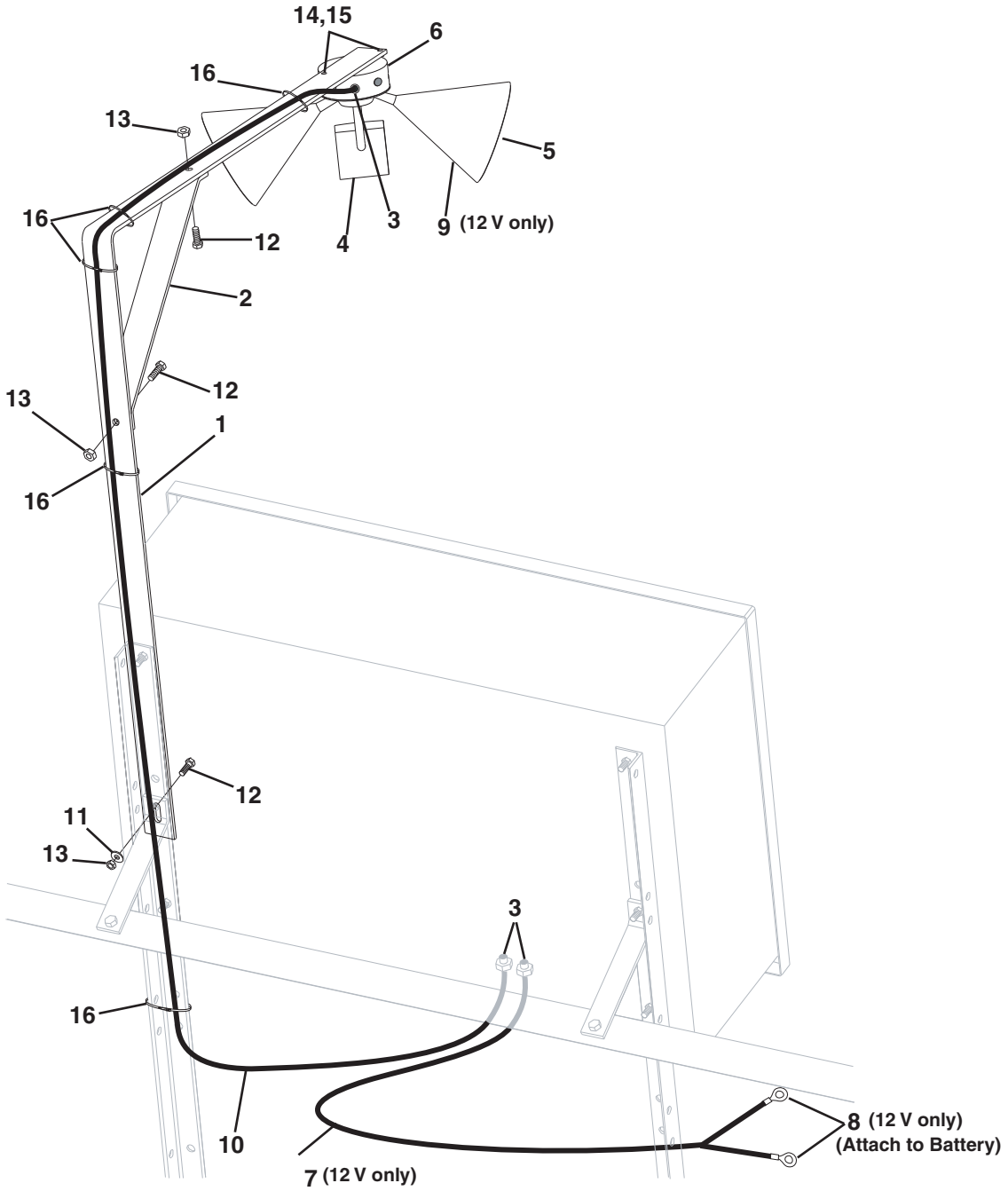
ITEM	DESCRIPTION	PART #
1	Light Mount Arm	9360630
2	Light Mount Brace	9360631
3	Strain Relief , 1/2" Hub	0314119
4	12 V Motion Sensor	03E1947*
	120 V Motion Sensing Kit	03E1945*
5	25 Watt Incandescent Bulb (12V)	03E1948*
	100 Watt Incandescent Bulb (120V)	03E1946
6	4" Round Outlet Box (5 Hole) w/Cover	03E1944*
7	Electrical Cable - 4 Cond. 14 Ga., 31' Long	1811499
8	1/4" Eyelet Terminal - OBSOLETED Nov. 2015	03E1408
9	Hooded Par Holder Kit (w/12v Only)	03E1951*
10	Electrical Cable - 4 Cond. 14 Ga., 12' Long	1813611

ITEM	DESCRIPTION	PART #
11	5/16" Flat Washer	0142017
12	3/8" x 1-1/4" Cap Screw	0161153
13	3/8" Lock Nut	0133006
14	10-24 x 1-1/4" Cap Screw	0164136
15	10-24 Hex Nut	0131055
16	Harness Tie	0314225
	120V Maintenance Light Pkg.	0000D04
	12V Maintenance Light Pkg.	0000D05

*** NOTE: Items OBSOLETED Dec 2016.**

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Functional Area	Assembly / Part	Rev# 01-17
Options / Miscellaneous	Maintenance Light - Standard Control Panel Mounting	

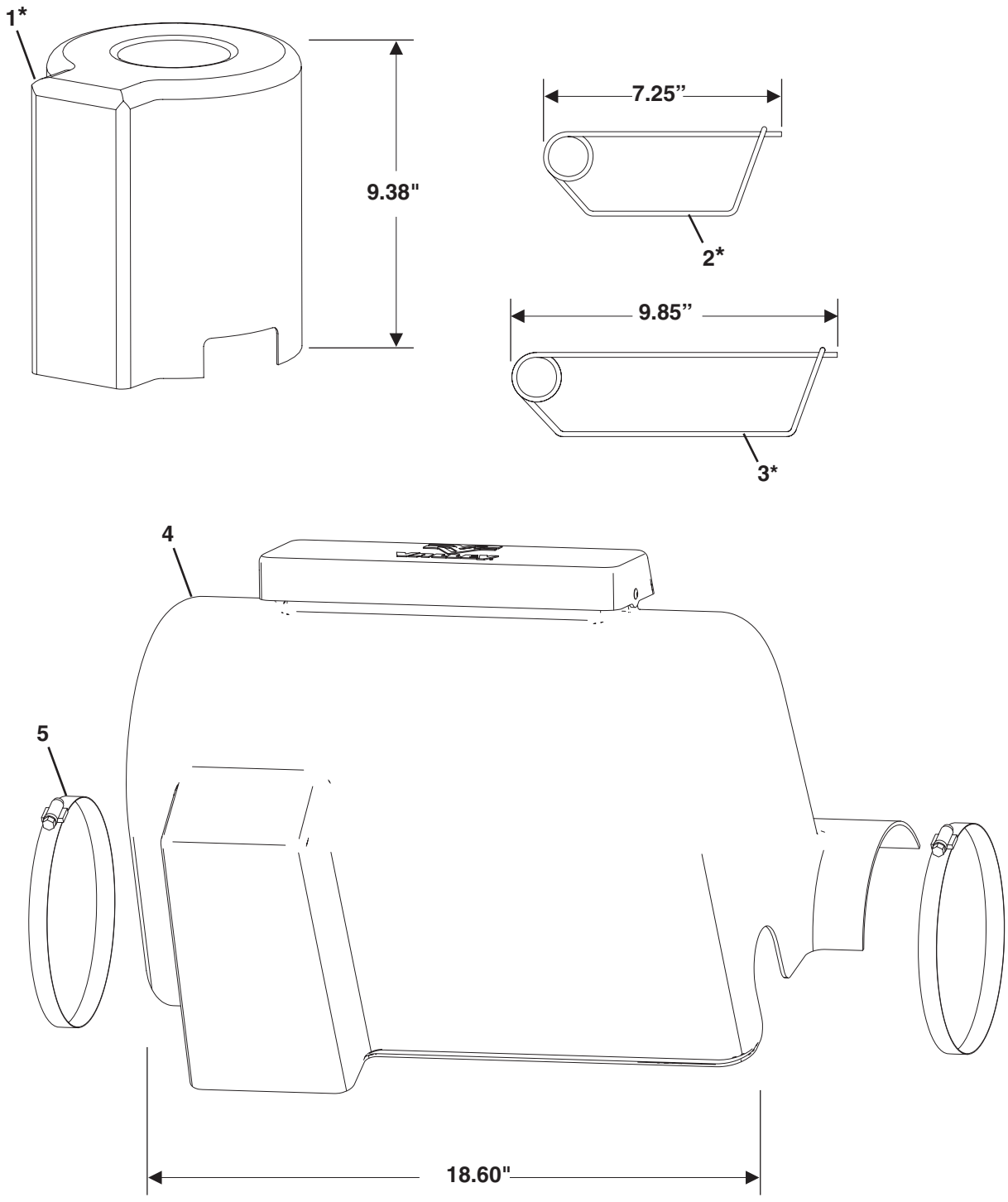


ITEM	DESCRIPTION	PART #
1	Light Mount Arm	9360630
2	Light Mount Brace	9360631
3	Strain Relief , 1/2" Hub	0314119
4	12 V Motion Sensor	03E1947 *
	120 V Motion Sensing Kit	03E1945 *
5	25 Watt Incandescent Bulb (12V)	03E1948 *
	100 Watt Incandescent Bulb (120V)	03E1946
6	4" Round Outlet Box (5 Hole) w/Cover	03E1944 *
7	Electrical Cable - 4 Cond. 14 Ga., 31' Long	1811499
8	1/4" Eyelet Terminal - OBSOLETED Nov. 2015	03E1408
9	Hooded Par Holder Kit (w/12v Only)	03E1951 *
10	Electrical Cable - 4 Cond. 14 Ga., 12 ' Long	1813611

ITEM	DESCRIPTION	PART #
11	3/8" Flat Washer	0142031
12	3/8" x 1-1/4" Cap Screw	0161153
13	3/8" Lock Nut	0133006
14	10-24 x 1-1/4" Cap Screw	0164136
15	10-24 Hex Nut	0131055
16	Harness Tie	0314225
	120V Maintenance Light Pkg.	0000D04
	12V Maintenance Light Pkg.	0000D05

* NOTE: Items OBSOLETED Dec 2016.

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ITEM	DESCRIPTION	PART #
1	Worm Drive Motor Cover	9360360*
2	Motor Cover Safety Pin - Short	0995301*
3	Motor Cover Safety Pin - Long	0996276*
4	Motor Cover w/Cap Assm. - Basebeam Mount	0997879
5	6-5/8" Hose Clamp	0271087

***NOTE: Service Parts Only.**

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1

USE 60° C INSULATION COPPER
WIRE ONLY FOR FIELD WIRING

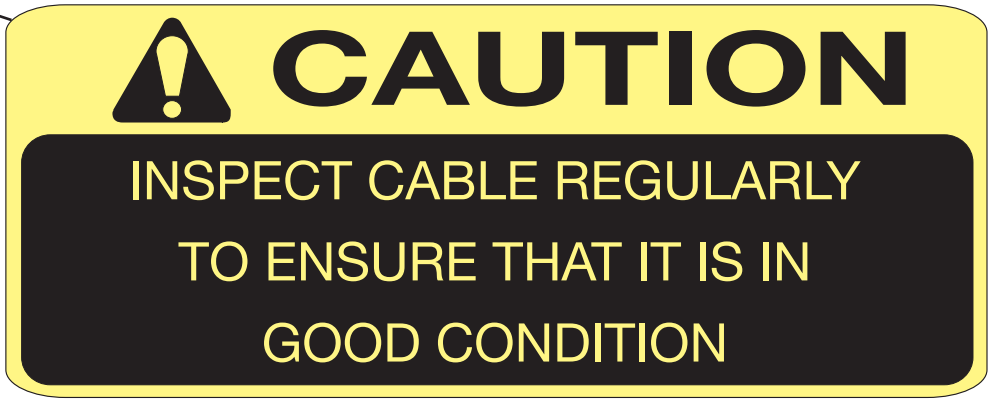
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3



4



ITEM	DESCRIPTION	PART #
1	Copper Wire Only	0994836
2	Caution: Safety Switch Off Position	0992748
3	Caution: Automatic Restart	0992221
4	Caution: Inspect Cable Regularly	0992750

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1

DANGER
HIGH VOLTAGE

2

DANGER
480 VOLTS

3

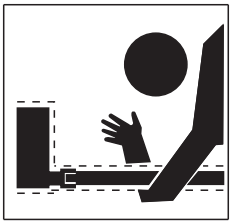
DANGER
HIGH VOLTAGE
DO NOT OPEN UNLESS PIVOT DISCONNECT SWITCH IS IN THE "OFF" POSITION

4

DANGER

Drive Shaft Starts Without Warning!

- Do not touch rotating drive shaft or shield. Clothing or limbs may become entangled, resulting in severe injury.
- Do not service until machine is locked in the off position.
- Always replace drive shaft shield after servicing.



5

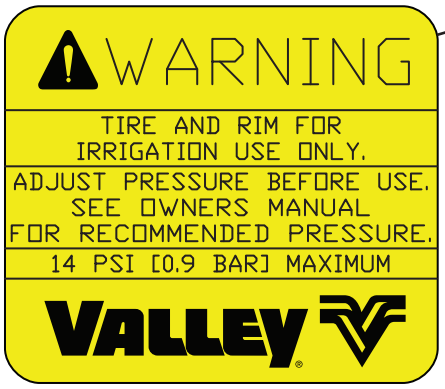
DANGER
480 VOLTS DO NOT OPEN UNTIL SERVICE DISCONNECT IS IN "OFF" POSITION AND LOCKED

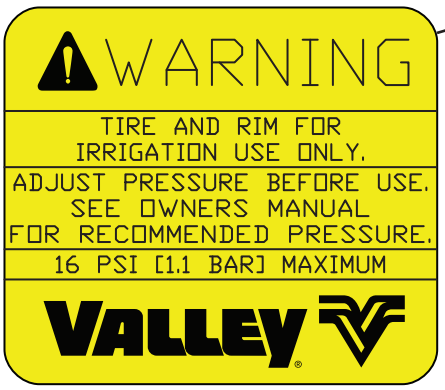
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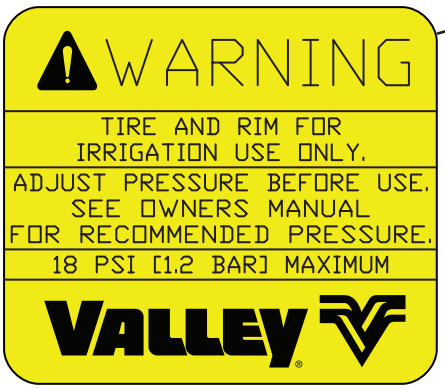
DANGER
480 VOLTS DO NOT OPEN UNTIL MACHINE DISCONNECT IS IN "OFF" POSITION AND LOCKED

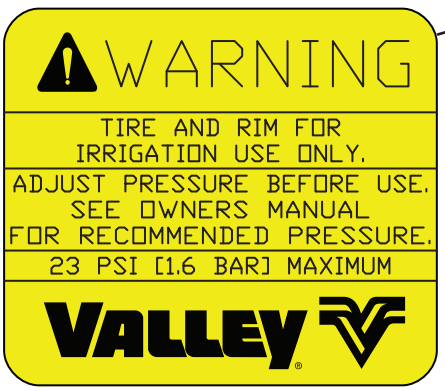
ITEM	DESCRIPTION	PART #
1	Danger: High Voltage - OBSOLETED Feb 2017	0992989
2	Danger: 480 Volts	0992749
3	Danger: High Voltage	0991148
4	Danger: Drive Shaft	0994146
5	Danger: 480 Volts Service - OBSOLETED Nov 2015	0991651
6	Danger: 480 Volts Machine	0991261

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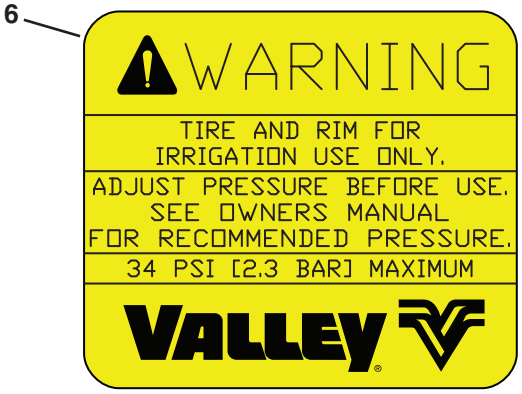














ITEM	DESCRIPTION	PART #
1	Warning: Inflation Pressure	0997494
2	Warning: Inflation Pressure	0997472
3	Warning: Inflation Pressure	0991532
4	Warning: Inflation Pressure	0991593
5	Warning: Inflation Pressure	0991366
6	Warning: Inflation Pressure	0996109
7	Warning: Stay Clear	0992751

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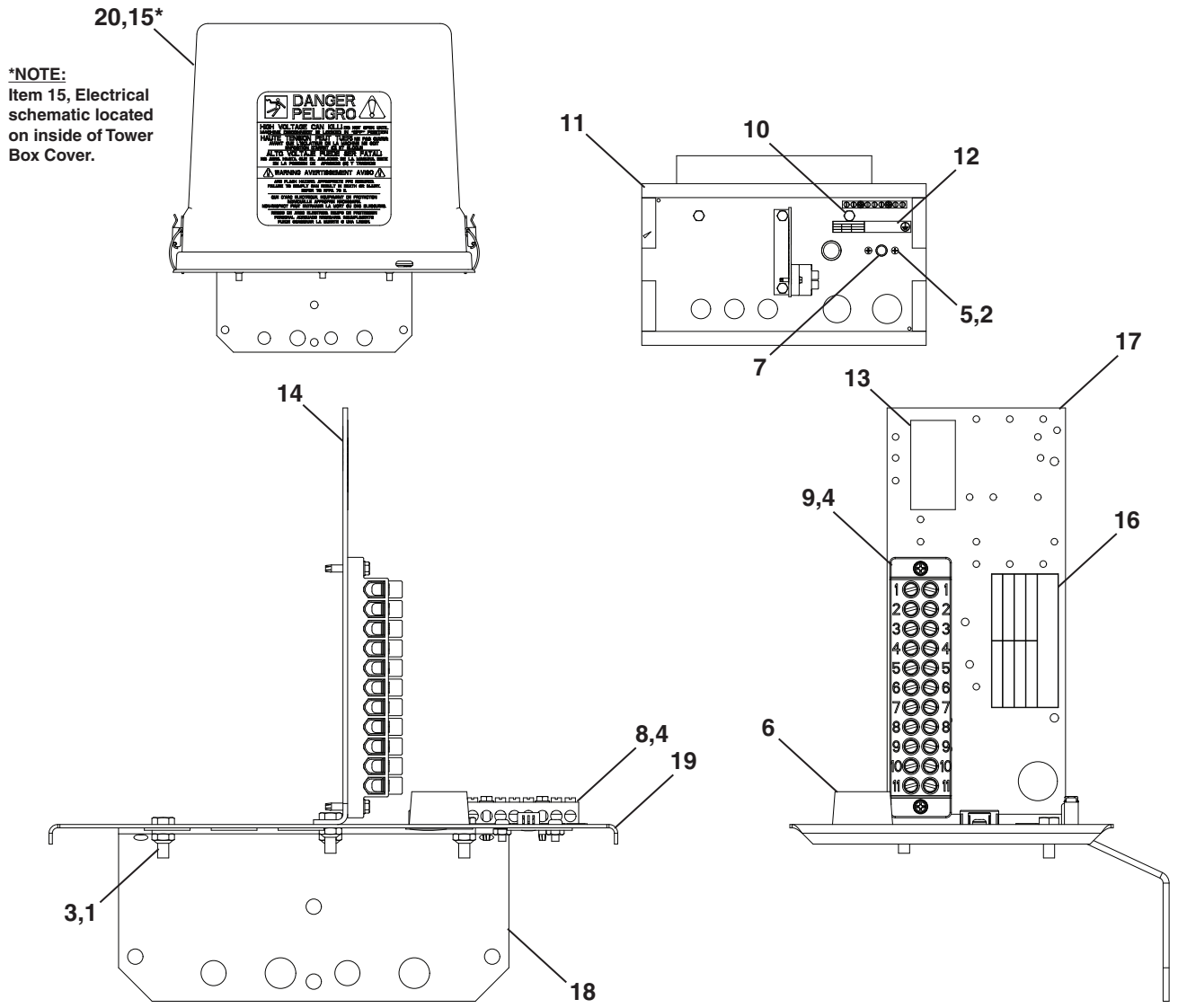
ITEM	DESCRIPTION	PART #
1	Auto Reverse/Auto Stop Box (Eff. June 01)	1814126
	Auto Reverse/Auto Stop Box (Prior to June 01)	1812340
	End-of-Field Stop Box (Eff. June 01)	1814135
	End-of-Field Stop Box (Prior to June 01)	1812341
	Bender 30 Stop Box	1814920
2	5/16" Lock Nut	0133007
3	Actuator Tube (Std & Low Profile)	1731376
	Actuator Tube (High Profile)	1780827
	Actuator Tube (Ultra High Profile)	9360199
4	Mounting Beam (Std & Low Profile)	1731383
	Mounting Beam (High Profile)	1780826
	Mounting Beam (Ultra High Profile)	9360198
5	Mount - 33" End-to-End	9360846
	Mount - 38.88" End-to-End (Low Profile)	1780768
	Mount - 30.41" End-to-End (High & Ultra High Profile)	9361040
6	Tower Junction Box	1812410
7	Elec. Cable 12 Cond. 10 Ga. (12'-8" Long)	1815287
	Elec. Cable 12 Cond. 10 Ga. (16' Long)	1813106
	Elec. Cable 12 Cond. 10 Ga. (18'-4" Long)	1815288
	Elec. Cable 12 Cond. 10 Ga. (24' Long)	1811446
8	5/8" x 1-3/4" Cap Screw	0161088
9	Clamp	0271021
10	5/16" x 1" Cap Screw	0161052
11	Control Box Mounting Plate	1700494
12	Strain Relief Hub	0314466
13	5/8" Lock Nut	0133010
14	5/8" Flat Washer	0142011
15	1/2" Lock Nut	0133005
16	1/2" x 5-1/2" Cap Screw	0161018
17	Horizontal Stop Arm	1731368
18	Vertical Stop Arm	1731384
	A.R.A.S. Pivot Hardware Kit	KA00811
	SERVICE PACKAGES	
	Add End of Field Stop	0000A74
	Add End of Field Auto Reverse	0000A75
	Add End of Field Stop - Low Profile	0000E07
	Add End of Field Auto Reverse - Low Profile	0000E06
	Add End of Field Stop - High Profile	0000E08
	Add End of Field Auto Reverse - High Profile	0000E09
	Add End of Field Stop - Ultra High Profile	0000E10
	Add End of Field Auto Reverse - Ultra High Profile	0000E11
	Add End of Field Posts	0000A76
	Add End of Field Barriers	0000A99

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ITEM	DESCRIPTION	PART #
1	Auto Reverse/Auto Stop Box (Prior to June 01)	1812340
	Auto Reverse/Auto Stop Box (Eff. June 01)	1814126
	End-of-Field Stop Box (Prior to June 01)	1812341
	End-of-Field Stop Box (Eff. June 01)	1814135
2	5/16" Lock Nut	0133007
3	5/16" x 2" Cap Screw	0161079
4	5/16" Flat Washer	0142017
5	Bushing	1731374
6	Actuator Tube (Std & Low Profile)	1731376
	Actuator Tube (High Profile)	1780827
	Actuator Tube (Ultra High Profile)	9360199
7	3/8" x 2" U-Bolt	0176053
8	Mounting Beam (Std & Low Profile)	1731383
	Mounting Beam (High Profile)	1780826
	Mounting Beam (Ultra High Profile)	9360198

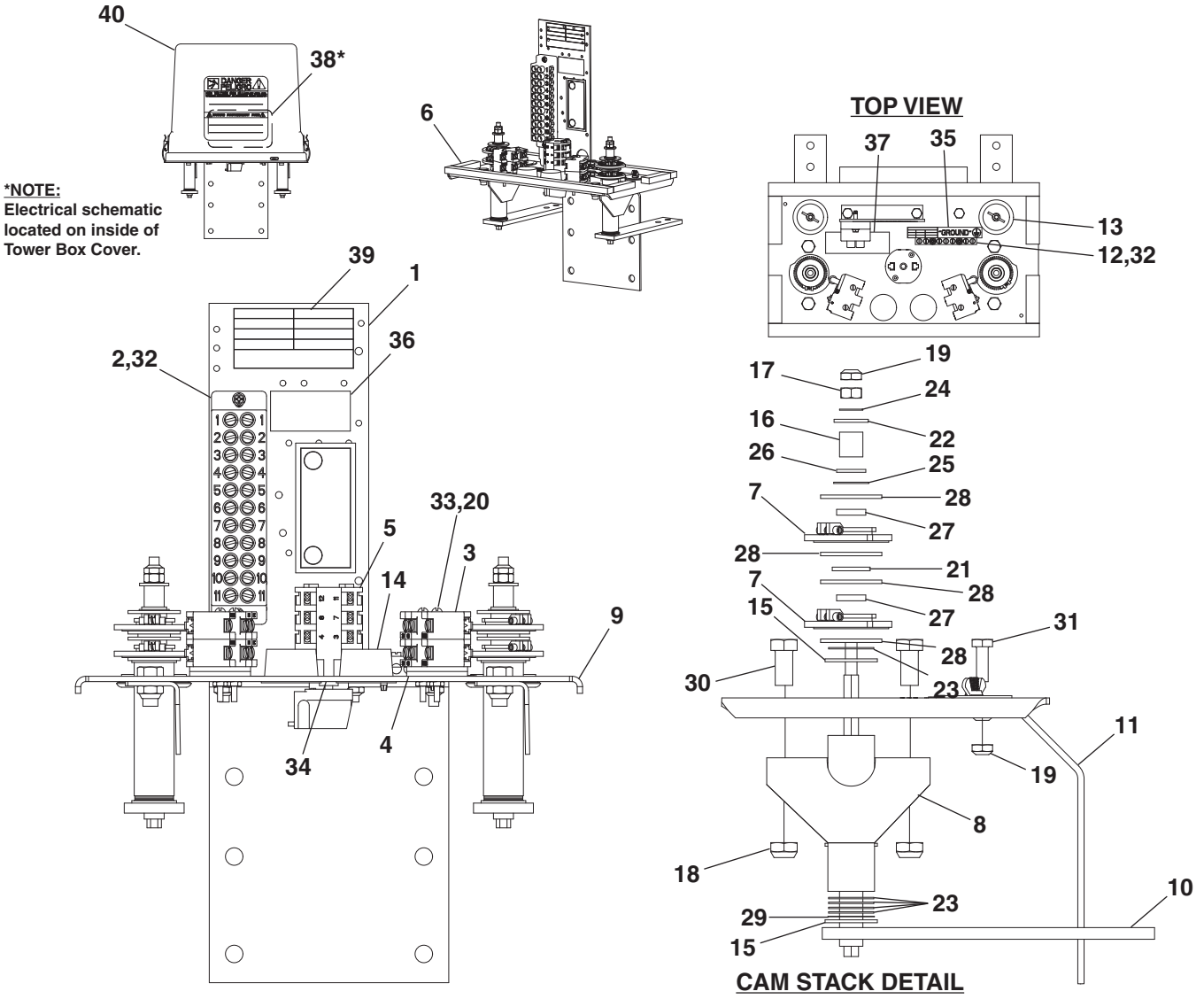
ITEM	DESCRIPTION	PART #
9	Mount - 33" End-to-End	9360846
	Mount - 38.88" End-to-End(Low Profile)	1780768
	Mount - 30.41" End-to-End(High & Ultra High Prof.)	9361040
10	Spring	0181007
11	1/2" x 6" All-Thread	1731414
12	1/2"Lock Nut	0133005
13	1/2" Hex Nut	0131015
14	1/2" Flat Washer	0142026
15	Side Plate	1731375
16	Pivoting Arm	1731382
17	1/2" x 3-1/2" Cap Screw	0161060
18	3/8" Flat Washer	0142031
19	3/8" Lock Washer	0141007
20	3/8" Hex Nut	0131018

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ITEM	DESCRIPTION	PART #
1	1/4" Lock Nut	0133008
2	#8 Hex Nut w/ External Tooth Lock Washer	0134059
3	1/4" x 3/4" Cap Screw	0161057
4	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
5	#8 x 3/8" RH Screw - Phillips Head	0164193
6	15X Caplug	0261010
7	Snap Button Hole Plug - 1/2" Hole	0314749
8	Ground Lug - 7 Terminal	0315120
9	Terminal Block - D-11	03E1899
10	Snap Button Hole Plug - 7/8" Hole	03E2166
11	Tower Box Gasket Kit	0992071
12	Decal - Ground	0992925
13	Decal - Power Supply - 1,5 HP 10 Amps	0994149
14	Decal - 3R Enclosure	0996403
15	Decal - Electrical Schem. Tower Junction Box	0997155
16	Decal - Terminal Block Torque Copper Wire	0998450
17	Vertical Component Bracket	1702053
18	Tower Box Mounting Plate	1702054
19	Bottom Plate	1702216
20	Tower Box Cover - UL	9311146
	COMPLETE Tower Junction Box	1812410

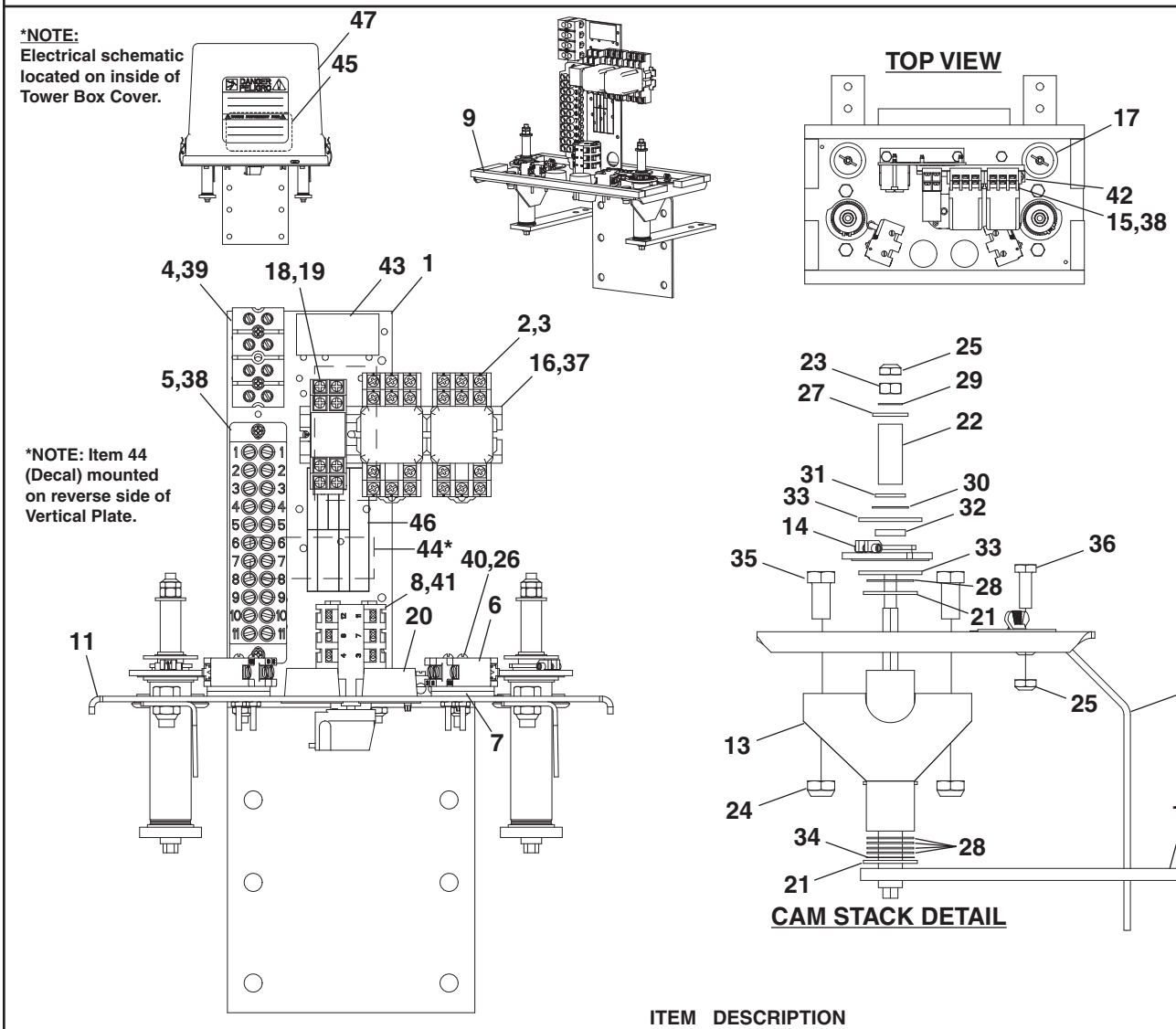
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ITEM	DESCRIPTION	PART #
1	Vertical Plate	1702053
2	Terminal Block	03E1899
3	Micro Switch	03E0307
4	Insulator	1701632
5	Disconnect Switch	0315746
6	Gasket Kit	0992071
7	Adjustable Cam	0314630
8	Sensor Bearing Assembly w/Bushing	1703336
9	Bottom Plate	9332173
10	Cam Shaft Assembly	1731734
11	Mounting Plate	9332172
12	Ground Lug	0315120
13	1" Hole Plug	03E0175
14	15X Caplug	0261010
15	Sensor Arm Washer	1701269
16	Spacer	1760479
17	1/4" Hex Nut	0131020
18	3/8" Lock Nut	0133006
19	1/4" Lock Nut	0133008
20	#6 Hex Nut	0134027
21	13/32" Flat Washer	0141035

ITEM	DESCRIPTION	PART #
22	1/4" Flat Washer	0142022
23	Washer .030 x .510 x .968 - Stainless Steel	0143047
24	1/4" Belleville Washer - Stainless Steel	0143054
25	3/8" Belleville Washer - Stainless Steel	0143055
26	Washer .625 x .375 x .062 - Stainless Steel	0143059
27	Washer .625 x .375 x .125 - Stainless Steel	0143060
28	Washer 5/16" x 1.312 Hex Hole	0143062
29	Washer .010 x .512 x .996 - Stainless Steel	0143066
30	3/8" x 3/4" Cap Screw	0161046
31	1/4" x 3/4" Cap Screw	0161057
32	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
33	#6 x 2-1/4" Machine Screw - Right Hand	0164090
34	Decal - Disconnect	0992090
35	Decal - Ground	0992925
36	Decal - UL Circuit Supply - 120V	0994147
37	Decal - 3R Enclosure	0996403
38	Decal - Electrical Schematic	0997156
39	Decal - Terminal Block Torque Copper Wire	0998450
40	Tower Box Cover - UL	9311146
	A.R.A.S Internal Switch Box Assm.	1814126

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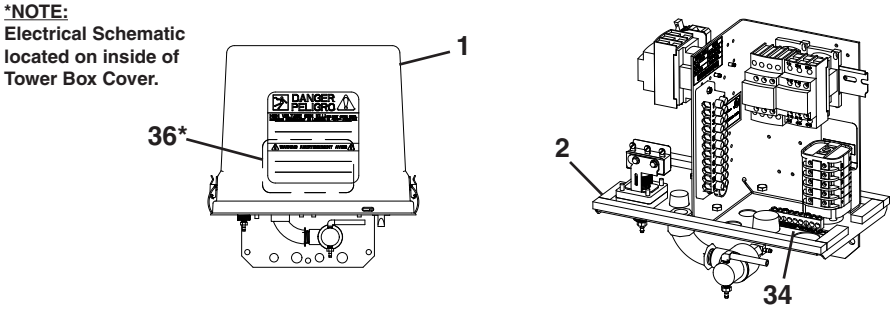


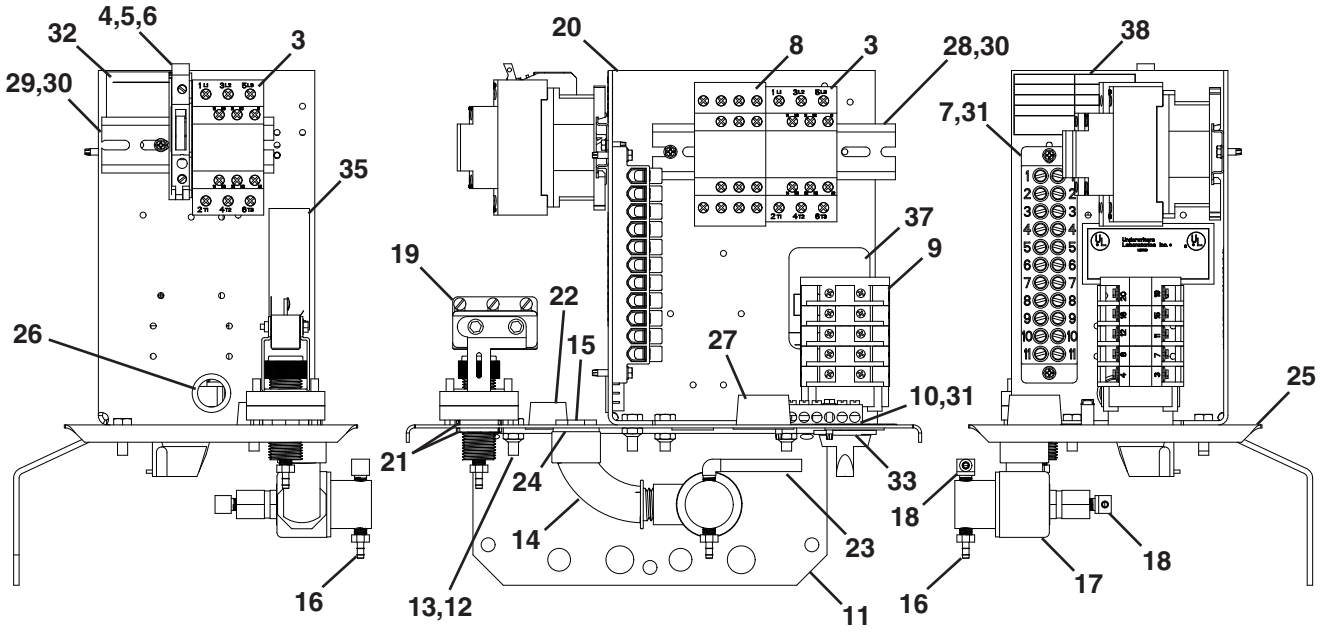
ITEM	DESCRIPTION	PART #
1	Vertical Plate	1702053
2	Relay Socket	03E1650
3	Relay	0314936
4	Terminal Strip	0315571
5	Terminal Block	03E1899
6	Micro Switch	03E0307
7	Insulator	1701632
8	Disconnect	0315746
9	Gasket Kit	0992071
10	Mounting Plate	9332172
11	Bottom Plate	9332173
12	Cam Shaft Assembly	1731734
13	Sensor Bearing Assembly w/Bushing	1703336
14	Adj. Cam	0314630
15	Ground Lug	0315120
16	Din Rail Mount	9310693
17	1" Hole Plug	03E0175
18	Relay Socket - 2 Pole 10A 300V	03E2107
19	Relay w/Indicator - DPDT 120VAC	03E4197
20	15X Caplug	0261010
21	Sensor Arm Washer	1701269
22	Bushing	1731374
23	1/4" Hex Nut	0131020
24	3/8" Lock Nut	0133006

ITEM	DESCRIPTION	PART #
25	1/4" Lock Nut	0133008
26	#6 Hex Nut	0134027
27	1/4" Flat Washer	0142022
28	Washer .030 x .510 x .968 - Stainless Steel	0143047
29	1/4" Belleville Washer - Stainless Steel	0143054
30	3/8" Belleville Washer - Stainless Steel	0143055
31	Washer .625 x .375 x .062 - Stainless Steel	0143059
32	Washer .625 x .375 x .125 - Stainless Steel	0143060
33	Washer 5/16" x 1.312 Hex Hole	0143062
34	Washer .010 x .512 x .996 - Stainless Steel	0143066
35	3/8" x 3/4" Cap Screw	0161046
36	1/4" x 3/4" Cap Screw	0161057
37	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
38	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
39	#8 x 1-1/4"Self-Tapping Screw - Phillips Head	0161357
40	#6 x 1-3/4" Machine Screw - Right Hand	0164134
41	Decal - Disconnect	0992090
42	Decal - Ground	0992925
43	Decal - UL Circuit Supply - 120V	0994147
44	Decal - 3R Enclosure	0996403
45	Decal - Electrical Schematic	0997157
46	Decal - Terminal Block Torque Copper Wire	0998450
47	Tower Box Cover - UL	9311146
	End of Field Internal Switch Box Assm.	1814135

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***NOTE:**
Electrical Schematic located on inside of Tower Box Cover.



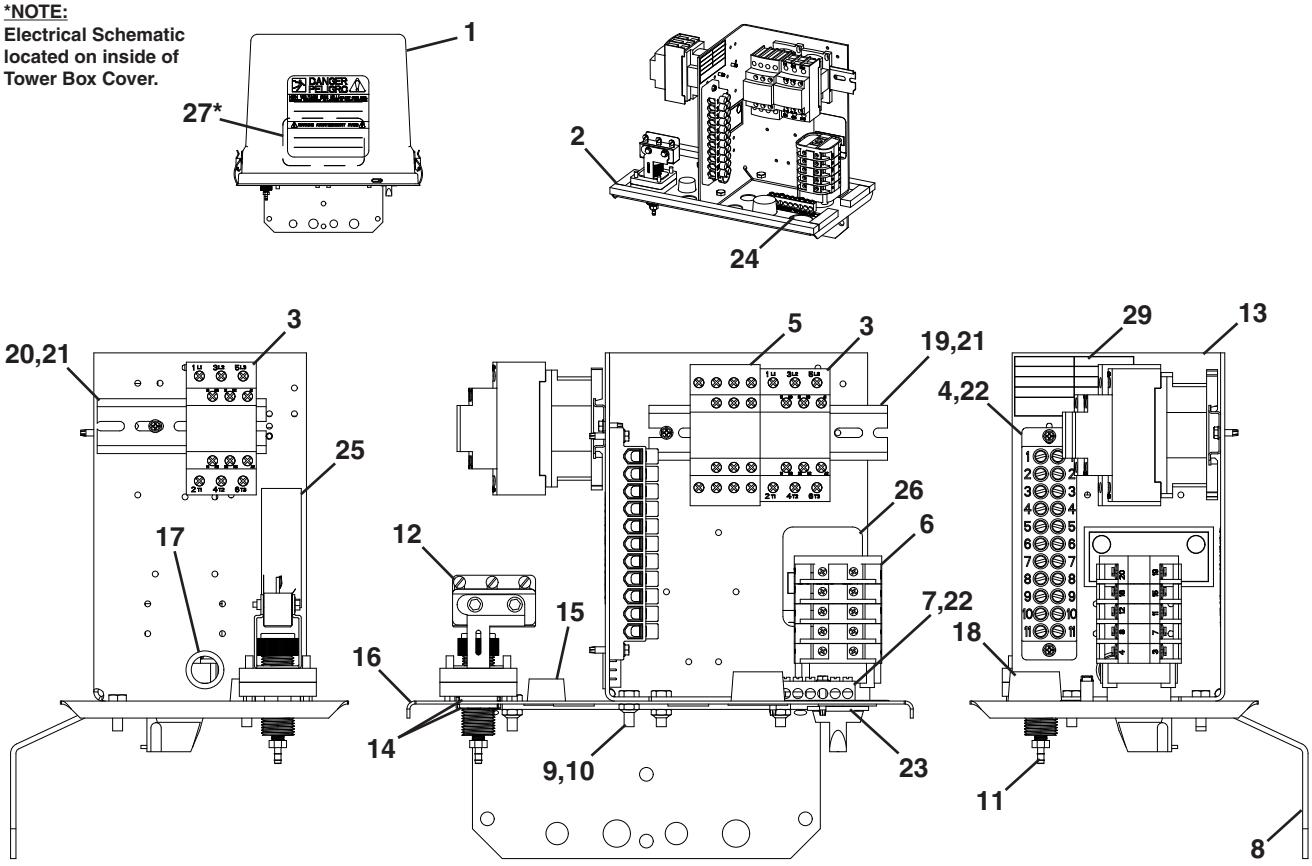


ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Gasket Kit	0992071
3	3 Pole Contactor - 25A 120V (Boxed)	03E3785
4	Fuse - 1.5A	0314858
5	Fuse Block - Din Rail Mount	03E2997
6	Fuse Block Cover	03E2998
7	Terminal Block, 600V	03E1899
8	4 Pole Contactor - 40A 120V	03E3542
9	Disconnect Switch	0314540
10	Grounding Lug	0315120
11	Mounting Plate	1702054
12	1/4" Lock Nut	0133008
13	1/4" x 3/4" Cap Screw	0161057
14	1/2" Bushed Elbow	0241057
15	1/2" Conduit Nipple - Rigid	0244037
16	1/4" MFL Connector - Tube to Male Pipe	0232362
17	Solenoid Valve w/Coil - 120V 60 Cycle NO	0232452
18	Elbow Fitting - Tube to Male Pipe	0232361
19	Pressure Switch	0315994
20	Plate - Booster Pump Control	1702392

ITEM	DESCRIPTION	PART #
21	1/2" Romax Nut	0314160
22	Caplug #12	0261008
23	Nylon Tubing - .304 O.D. x 500'	0272050
24	Flat Washer (OPTIONAL)	0142075
25	Bottom Plate	1702391
26	Snap Bushing	0992070
27	Caplug #15x	0261010
28	Din Rail Mount Channel - 6.00" Long	9310608
29	Din Rail Mount Channel - 4.25" Long	9312350
30	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
31	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
32	Decal - End Gun Fuse, 1.5A	03E1500
33	Decal - Disconnect	0992090
34	Decal - Ground	0992925
35	Decal - 3R Enclosure	0996403
36	Decal - Electrical Schematic	0997151
37	Decal - Electrical Specifications	0997164
38	Decal - Terminal Block Torque Copper Wire	0998450
	Booster Pump Box Assm.	**1811602**

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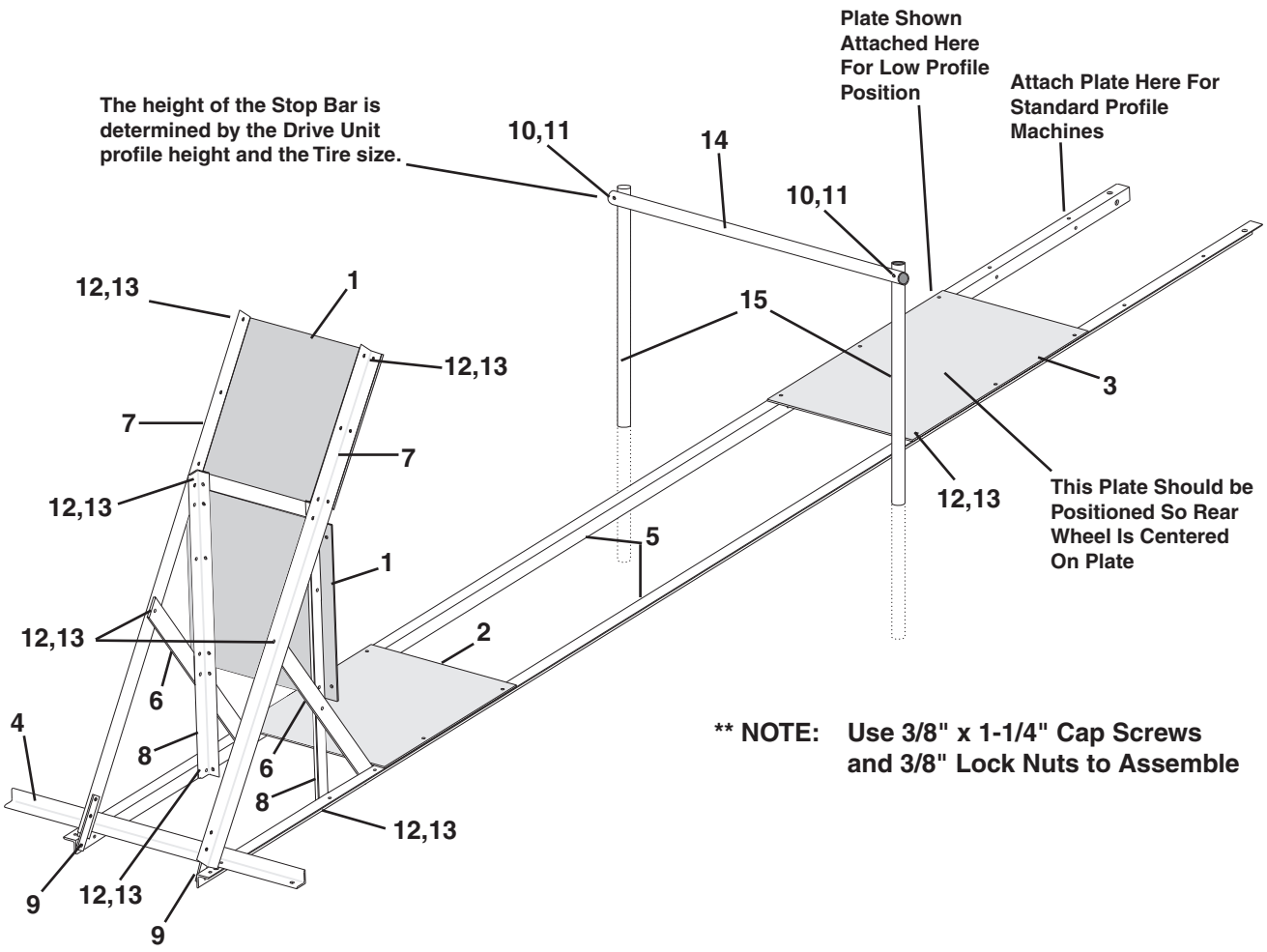
***NOTE:**
Electrical Schematic located on inside of Tower Box Cover.



ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Gasket	0992071
3	3 Pole Contactor - 25A 120V (Boxed)	0993734
4	Terminal Block, 600V	03E1899
5	4 Pole Contactor - 40A 120V	03E3542
6	Disconnect Switch	0314540
7	Grounding Lug	0315120
8	Mounting Plate	1702054
9	1/4" Lock Nut	0133008
10	1/4" x 3/4" Cap Screw	0161057
11	MFL Connector - Tube to Male Pipe	0232362
12	Pressure Switch	0315994
13	Mounting Plate	1702392
14	1/2" Romax Nut	0314160
15	Caplug #12	0261008

ITEM	DESCRIPTION	PART #
16	Bottom Plate	1702391
17	Snap Bushing	0992070
18	Caplug #15x	0261010
19	Din Rail Mount Channel - 6.00" Long	9310608
20	Din Rail Mount Channel - 4.25" Long	9312350
21	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
22	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
23	Decal - Disconnect	0992090
24	Decal - Ground	0992925
25	Decal - 3R Enclosure	0996403
26	Decal - Electrical Specifications	0997164
27	Decal - Electrical Schematic	0998096
28	Decal - Terminal Block Torque Copper Wire	0998450
	Booster Pump Box without Solenoid Valve	**1814967**

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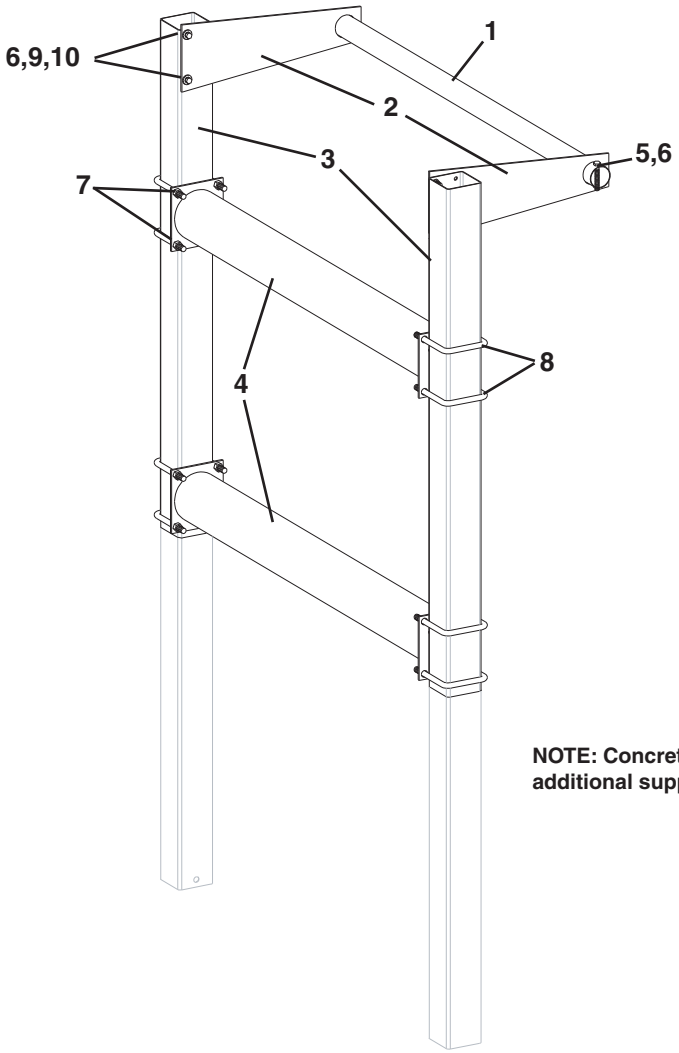
**** NOTE: Use 3/8" x 1-1/4" Cap Screws and 3/8" Lock Nuts to Assemble**

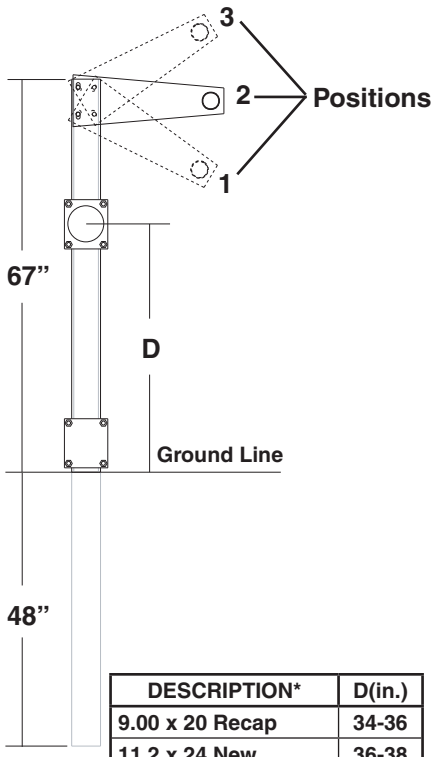
ITEM	DESCRIPTION	PART #
1	Plate Stop 26" x 24"	1703519
2	Plate Front 30" x 24"	1781333
3	Plate Long 40" x 24"	1703689
4	Angle Foot 48" Long	1703515
5	Angle Base 240" Long	1703516
6	Support Brace	9360967
7	Verticle Angle	9360968
8	Support Angle	9360975
9	Support Bar	9360966
10	1/2" x 5-1/2" Cap Screw	0161018
11	1/2" Lock Nut	0133005
12	3/8" Lock Nut	0133006**
13	3/8" x 1-1/4" Cap Screw	0161153**
14	Horizontal Stop Arm	1731368
15	Vertical Stop Arm	1731384

COMPLETE End of Field Barricade Stop Pkg. (Items 10,11,14,15) 0000A76
COMPLETE Barricade Package 0000A99
(Not Available on High Profile and Ultra High Profile)

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PROFILE	TIRE SIZE						
	9.00 x 20	11.2 x 24	11 x 24.5	14.9 x 24	16.9 x 24	18.4 X 26	11.2 x 38
Low	Position 1						
Standard	Position 2						
Ultra High	Position 2						
High	Position 3						





NOTE: Concrete may be used for additional support in soft soil.

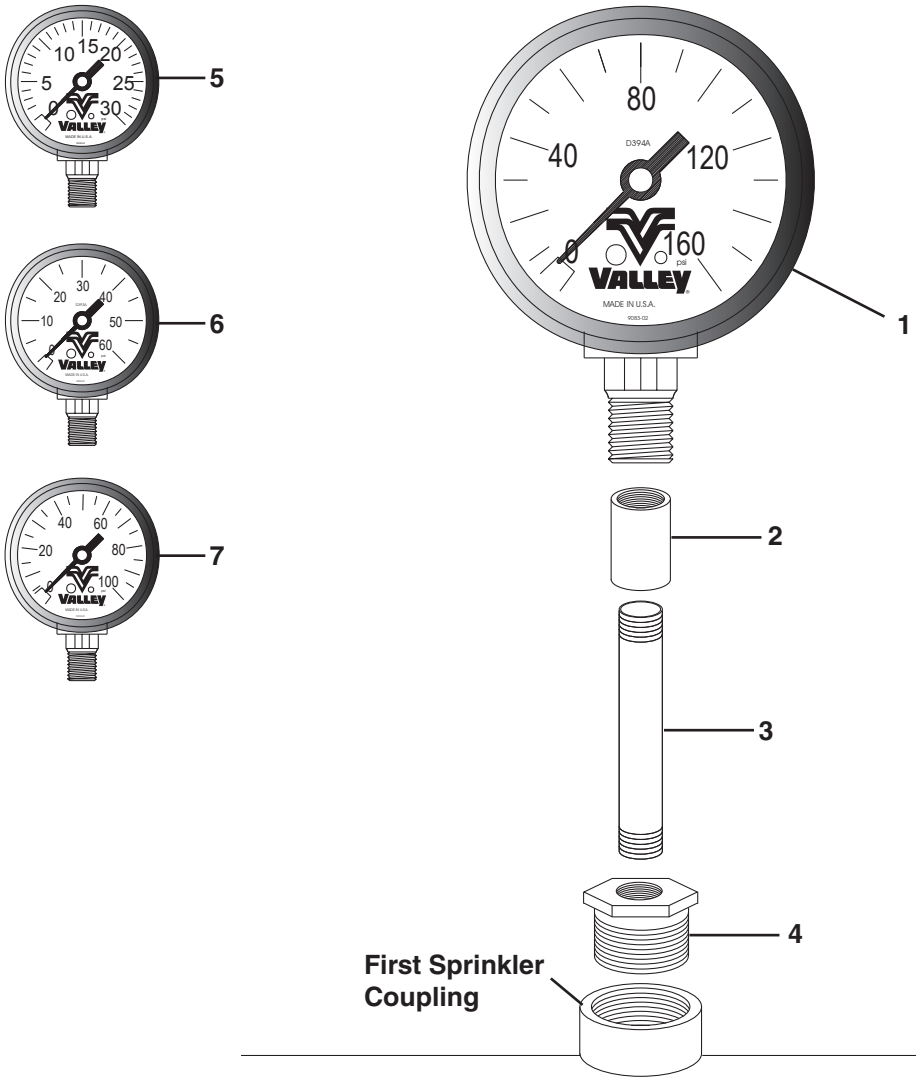
DESCRIPTION*	D(in.)
9.00 x 20 Recap	34-36
11.2 x 24 New	36-38
11 x 24.5 Recap	38-40
14.9 x 24 New	42-44
16.9 x 24 New	44-46
18.4 X 26 New	49-51
11.2 x 38 New	50-52

***NOTE: See Tires & Rims page in Drive Unit/ Drive Train Sect. for part #s.**

ITEM	DESCRIPTION	PART #
1	EOF Stop Barricade Actuator Bar	9360974 *
2	EOF Stop Barricade Stop Plate	9360969 *
3	EOF Stop Barricade Vertical Post	9360970 *
4	EOF Stop Barricade Crossbar	9360973 *
5	1/2” x 3-1/2” Cap Screw	0161060 **
6	1/2” Lock Nut	0133005 **
7	3/4” Hex Nut	0131008 **
8	3/4” x 7” U-Bolt	0176048 **
9	1/2” x 1-1/4” Cap Screw	0161027 **
10	1/2” Flat Washer	0142026 **

****End of Field Stop Barricade Hardware Kit KA09377***
*** End of Field Stop Barricade Post Type Package....0000E02**

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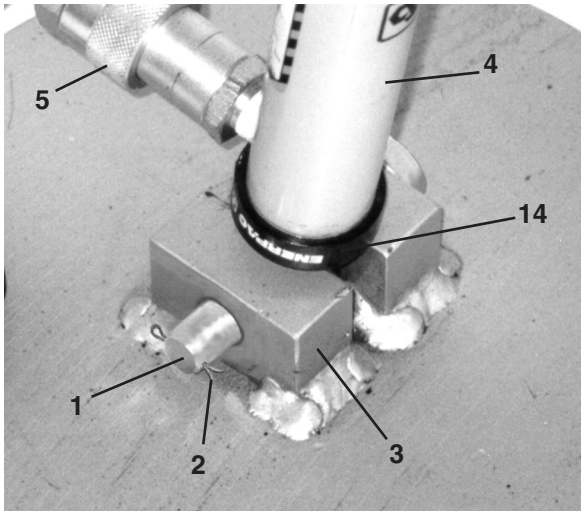


ITEM	DESCRIPTION	PART #
1	0-160 PSI Pressure Gauge	0231001
2	1/4" Coupling	0245008
3	1/4" x 3" Nipple	0211031
4	3/4" x 1/4" Reducer Bushing	0244025
5	0-30 PSI Pressure Gauge	0231122
6	0-60 PSI Pressure Gauge	0232442
7	0-100 PSI Pressure Gauge	0232501

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Ext-Magnesium Anode 3/4" x 3/8" w/ 1/8" Core..... 0994509

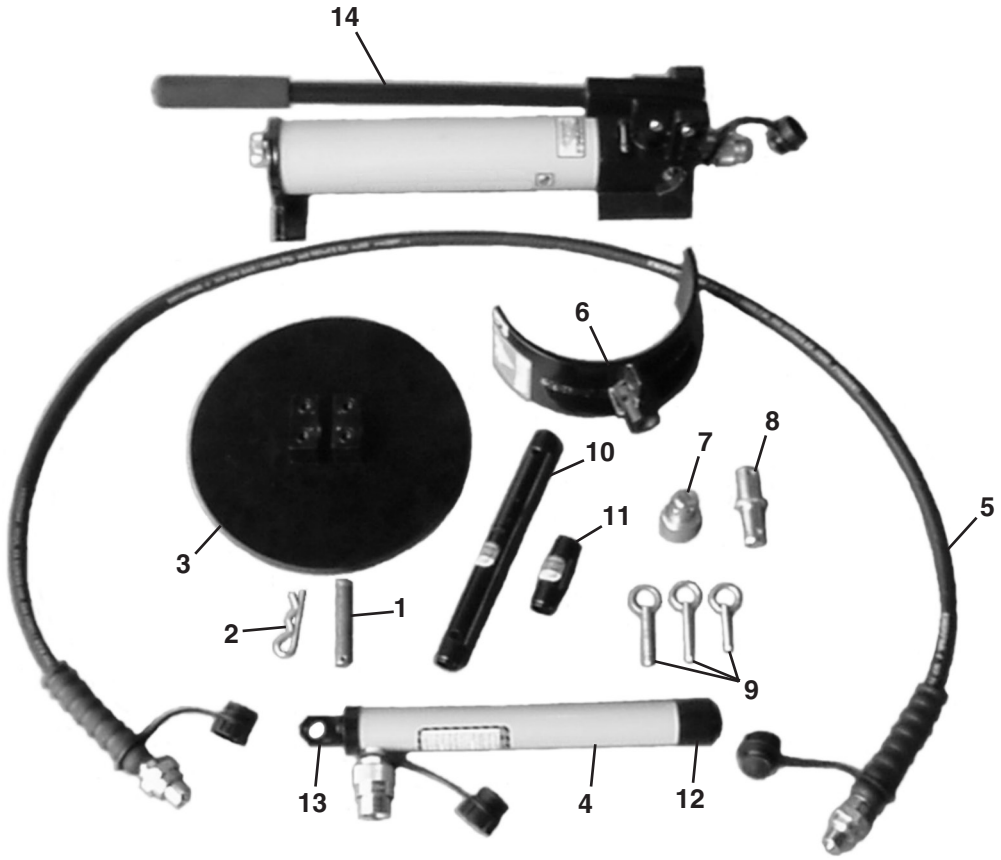
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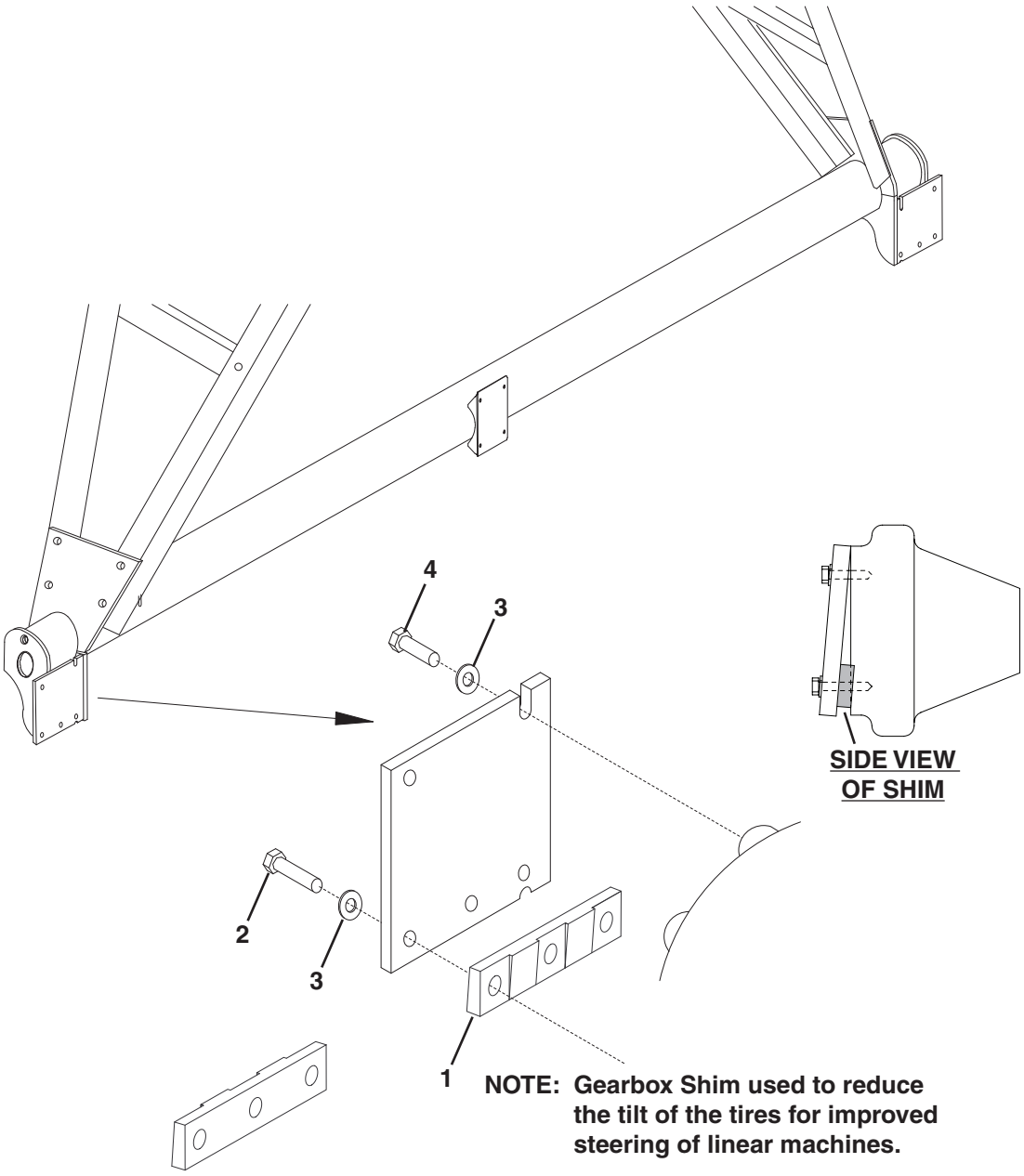
PRODUCTS NO LONGER AVAILABLE

ITEM	DESCRIPTION	PART #
1	Clevis Pin, 5/8" x 3" ..... OBSOLETE ..	0996157 *
2	Cotter Pin, 1/8" x 1-1/2" ..... OBSOLETE ..	0151010 *
3	Base Plate ..... OBSOLETE ..	0996149 *
4	5 Ton Cylinder, 9.125" Stroke ..... OBSOLETE ..	0996148
5	6' Hose Assembly ..... OBSOLETE ..	0996150
6	Basebeam Saddle ..... OBSOLETE ..	0996147
7	Threaded Female Lock-on Adaptor ..... OBSOLETE ..	0996155
8	Lock-on Connector ..... OBSOLETE ..	0996161
9	Lock Pin ..... OBSOLETE ..	0996156
10	10" Extension ..... OBSOLETE ..	0996160
11	3" Extension ..... OBSOLETE ..	0996158
12	Threaded Adaptor ..... OBSOLETE ..	0996154
13	Cylinder Base Clevis ..... OBSOLETE ..	0996167
14	Hydraulic Hand Pump ..... OBSOLETE ..	0996372
	Valley Manual (not shown) ..... OBSOLETE .	0996375
	Towable Basebeam Jack System - Hand Pump ..... OBSOLETE ..	0996373

***NOTE: Item 3 Base Plate includes items 1 & 2.**



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NOTE: Gearbox Shim used to reduce the tilt of the tires for improved steering of linear machines.

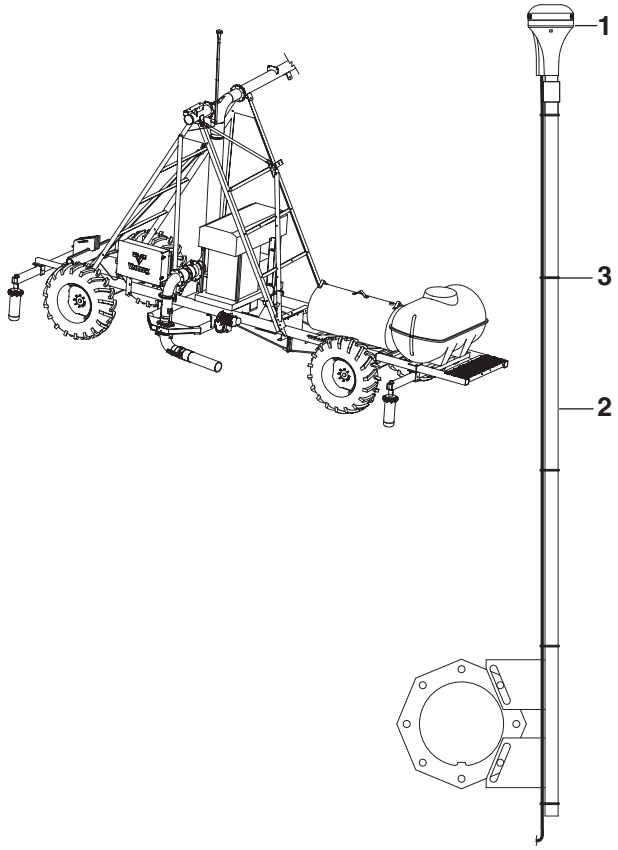
ITEM	DESCRIPTION	PART #
1	Tapered Shim	9363166
2	1/2" x 1-3/4" Cap Screw	0161029
3	1/2" Flat Washer	0142025
4	1/2" x 1-1/4" Cap Screw	0161027

*** COMPLETE Tapered Shim Hardware Kit KA09780**

***NOTE: Kit contains 2 (ea.) Item 1 and 6 (ea.) Item 2 & 3.**

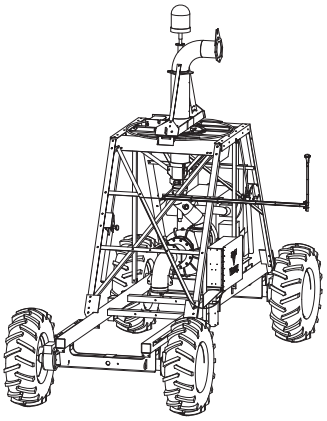
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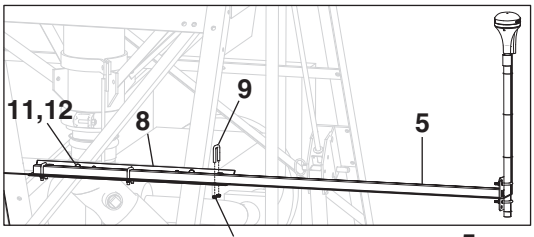
For Linear w/ pro2 AutoPilot ver. 1.10 or later

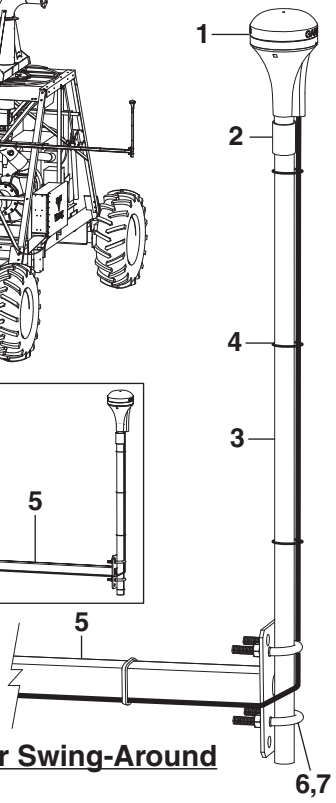


Rainger Linear

ITEM	DESCRIPTION	PART #
1	GPS - 19HVS Programmed - Garmin (shown at left)	03E3466
	GPS - Programmed - Novatel - OBSOLETED May 18	03E2818
2	Mounting Bracket	1781544
3	Ty Wrap	0314225
	GPS Mounting Kit - Linear	KA09832
	GPS Panel Wiring Kit	KA09833



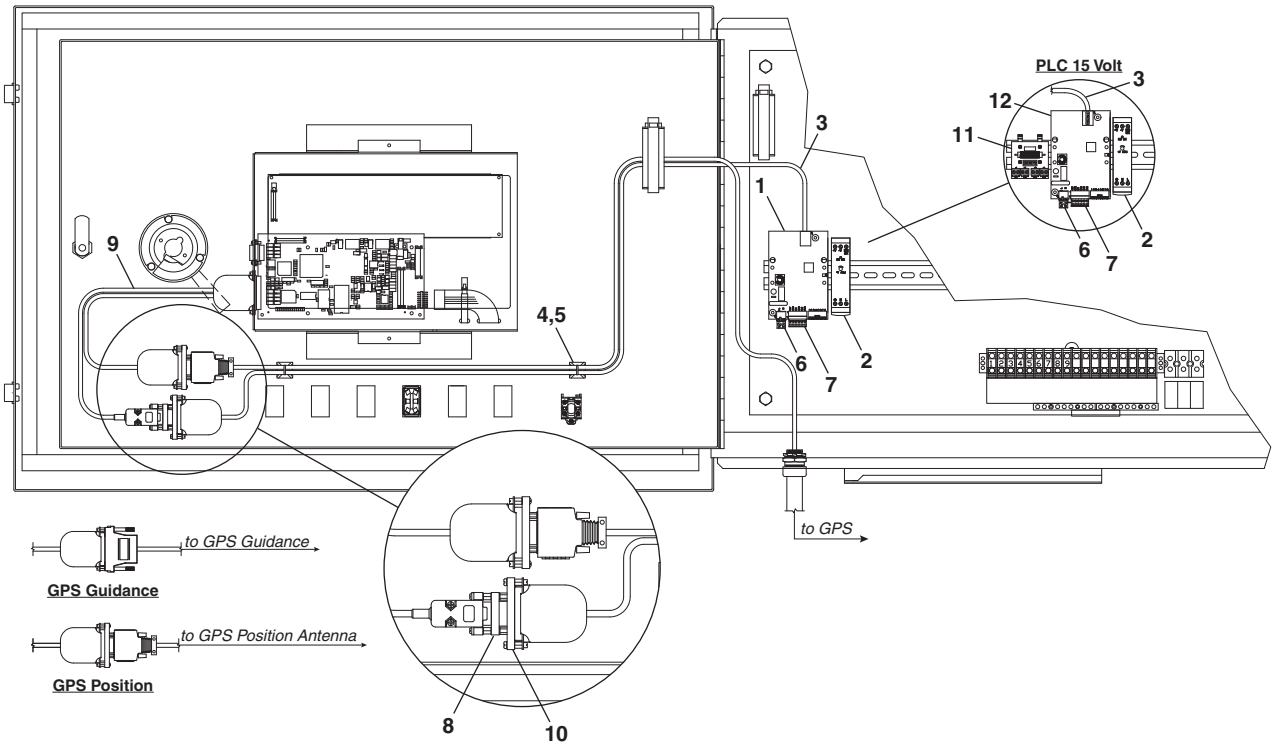




Rainger Swing-Around

ITEM	DESCRIPTION	PART #
1	GPS - 19X HVS Programmed - Garmin (shown above)	03E3466
	GPS - Programmed - Novatel - OBSOLETED May 18	03E2818
2	GPS Mount Adapter	1704153
3	3/4" x 24" Nipple - Galvanized	0211133
*4	Cable Tie	0314834
5	Antenna Mount Arm	1704195
*6	5/16" U-Bolt	0176064
*7	5/16" Flat Washer	0142017
8	Mounting Bracket	1703727
*9	3/8" U-Bolt	0176070
*10	3/8" Lock Nut	0133006
*11	1/2" x 1-1/4" Bolt	0161027
*12	1/2" Lock Nut	0133005
*	GPS Mount. Kit - Swing-Around/Univ. Linear	931K049
	GPS Panel Wiring Kit	KA09833

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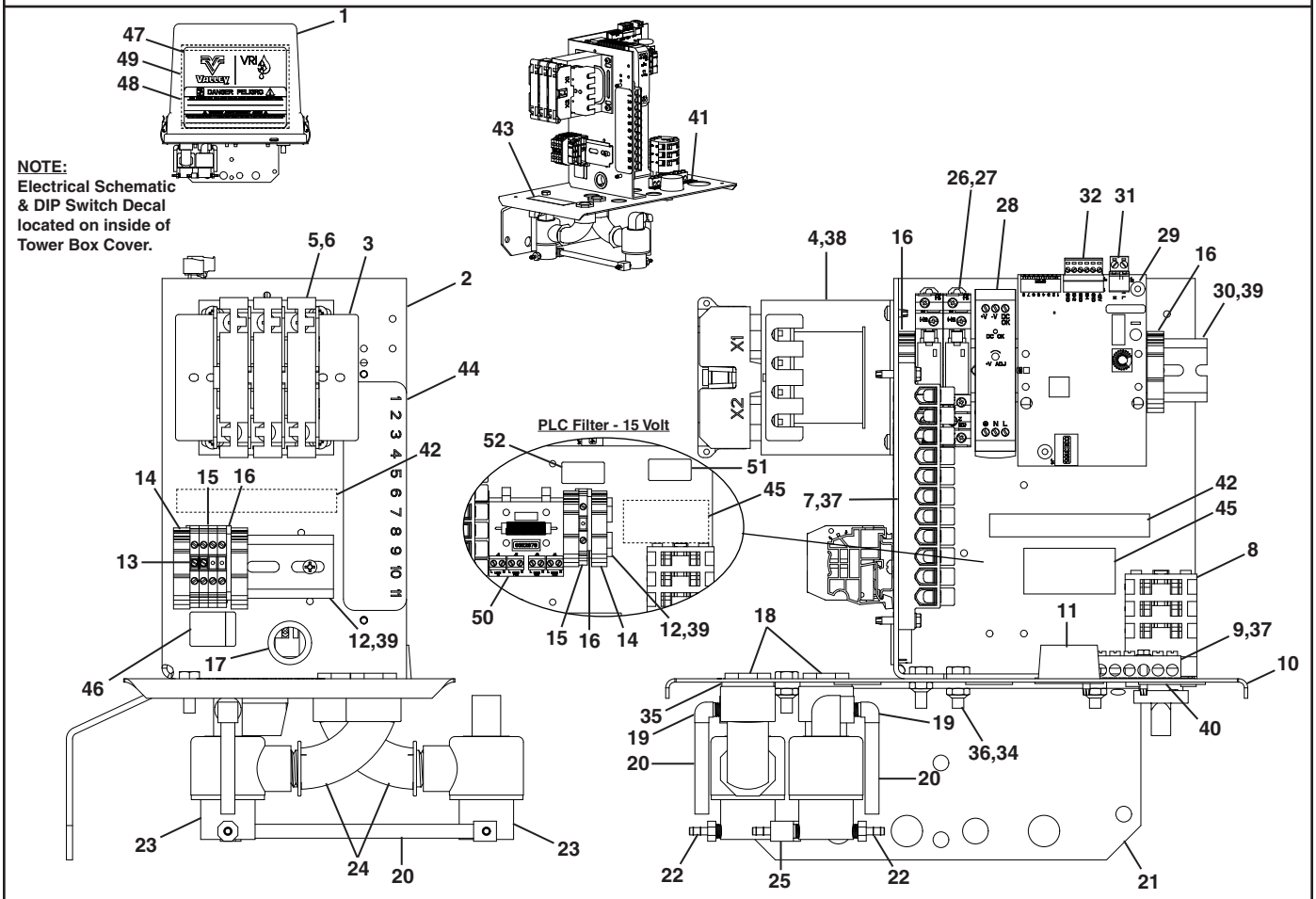


ITEM	DESCRIPTION	PART #
1	PC OPMC2 - Standard - DISCONTINUED Jan 18	03E3165
2	Power Supply	03E2767
3	Shielded Cable - DB25 to RJ11	03E2781
4	Wire Tie Holder	03E0046
5	Wire Tie	03E1605
6	Terminal Strip Plug - 5.08mm, 2 Pole	03E3166
7	Terminal Strip Plug - 3.5mm, 6 Pole	03E3167
8	Null Modem Adapter - DB9	03E2317*
9	Y-Cable Harness	03E3765*
10	Adapter - DB9 Male/DB25 Female	03E3874*
11	PLC Filter	03E2879
12	PC OPMC2 - 15V Comm Signal - DISCONTINUED May 18	03E3164

***VRI-Z Linear Install Kit..... KA01809**
(Includes (4) Female/Female Standoff 03E3757)
(DISCONTINUED May 18 (see PLC VRI-Z Linear for Pro2 Panel - OPMC5 page in this sect.)

TPMS/GPS/VRI PLC for Pro2 Panel Assm. - OPMC2 9311887
(Assm. includes Screwdriver - 2.0-2.5mm Blade...0178009)
TPMS/GPS/VRI PLC 15 Volt for Pro2 Panel Assm. - OPMC2 9311888
(Assm. includes Screwdriver - 2.0-2.5mm Blade...0178009 & Scotchlok Connector...0314151)
(DISCONTINUED May 18)

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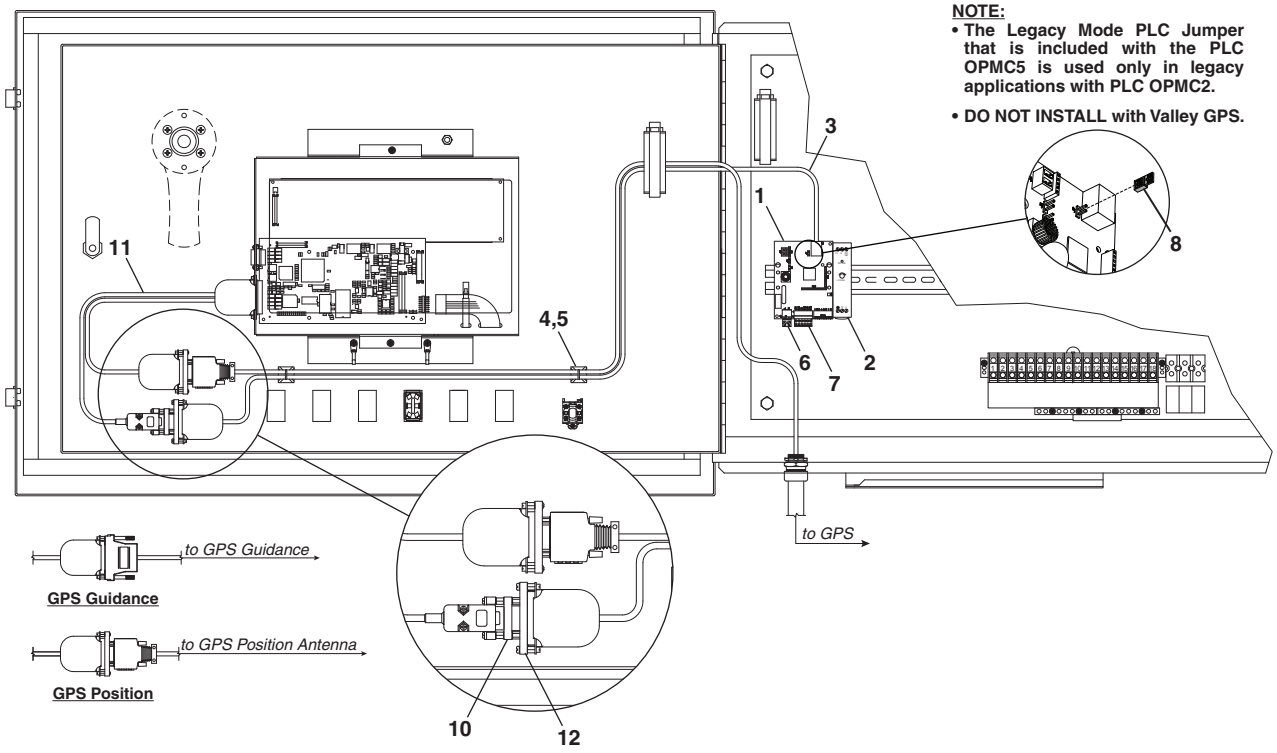
ITEM	DESCRIPTION	PART #
1	Electrical Tower Box Cover - UL	9311146
2	Control Plate	1702392
3	Transformer Cover	03E2877
4	Transformer	03E2876
5	Fuse Puller / Cover	03E2875
6	Fuse - 1-1/4 Amp	03E2874
7	Terminal Block	03E1899
8	Power Disconnect - 6 Pole	0315746
9	Ground Lug - 7 Terminal	0315120
10	Bottom Plate	1702391
11	Caplug 15x	0261010
12	Din Rail Channel - 3.5" Long	9311122
13	Terminal Jumper - 2 Pole	03E3000
14	Terminal Block, Din Rail Mount	03E2994
15	Terminal Block End Cover	03E2995
16	Din Rail End Stop	03E2996
17	Snap Bushing	0992070
18	Rigid Conduit Nipple	0244037
19	Elbow Tube to Male Pipe	0232361
20	Nylon Tubing - .304 O.D. x .180 I.D. x 500'	0272050
21	Tower Box Mounting Plate	1702054
22	Tube to Male Pipe MFL Connector	0232362
23	Solenoid Valve - Normally Closed	0232450
24	1/2" Bushed Elbow - Male to Female	0241057
25	1/8" NPT x 1/4" x 1/4" Tee Fitting	0232367
26	Relay Socket - Din Rail Mount	03E3100
27	Relay - Solid State 2 Amp	03E3101
28	Power Supply - 12V	03E2767
29	PC OPMC2 - Standard - DISCONTINUED Jan 18	03E3165
	PC OMPC2 - 15V Comm Signal - DISC. May 18	03E3164
30	Din Rail Channel - 6.75" Long	9310700

ITEM	DESCRIPTION	PART #
31	Terminal Strip Plug - 5.08mm, 2 Pole	03E3166
32	Terminal Strip Plug - 3.5mm, 6 Pole	03E3167
33	Tower Box Gasket Kit (not shown)	0992071
34	1/4" Lock Nut	0133008
35	Flat Washer - 1.136"	0142075
36	1/4" x 3/4" Cap Screw	0161057
37	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
38	#8 x 3/8" Self-Tapping Screw - Phillips Head	0161412
39	#8 x 1/4" Self-Tapping Screw - Phillips Head	0164226
40	Decal - Disconnect	0992090
41	Decal - Ground	0992925
42	Decal - Copper Wire ONLY	0994836 *
43	Decal - 3R Enclosure	0996403
44	Decal - 11 Pole Terminal Strip	0997991
45	Decal - Circuit Supply	0997992 *
46	Decal - Site Specific Valves	0997995
47	Decal - VRI Logo	0998052
48	Decal - VRI Tower Box Schematic	0998385
	Decal - VRI-Z Tower Box Schem. - 15V - OBS. May 18	0999404
49	Decal - VRI DIP Switch Settings	0998384
50	PLC Filter	03E2879
51	Decal - 15V Communication - OBSOLETED May 18	0998112
52	Decal - VRI Yel/Red Terminal - OBSOLETED May 18	0998113

VRI Sprinkler Control Box Assm. - OPMC2 ..... **1814795**
VRI-Z Last Tower Box Assm. - OPMC2 15V Comm **1815253**
(DISCONTINUED May 18 (see VRI-Z Intermediate Tower Box - OPMC5 page in this sect.)

***NOTE: Dashed lines are locations of decals (items 42 & 45) for 15V Comm. box.**

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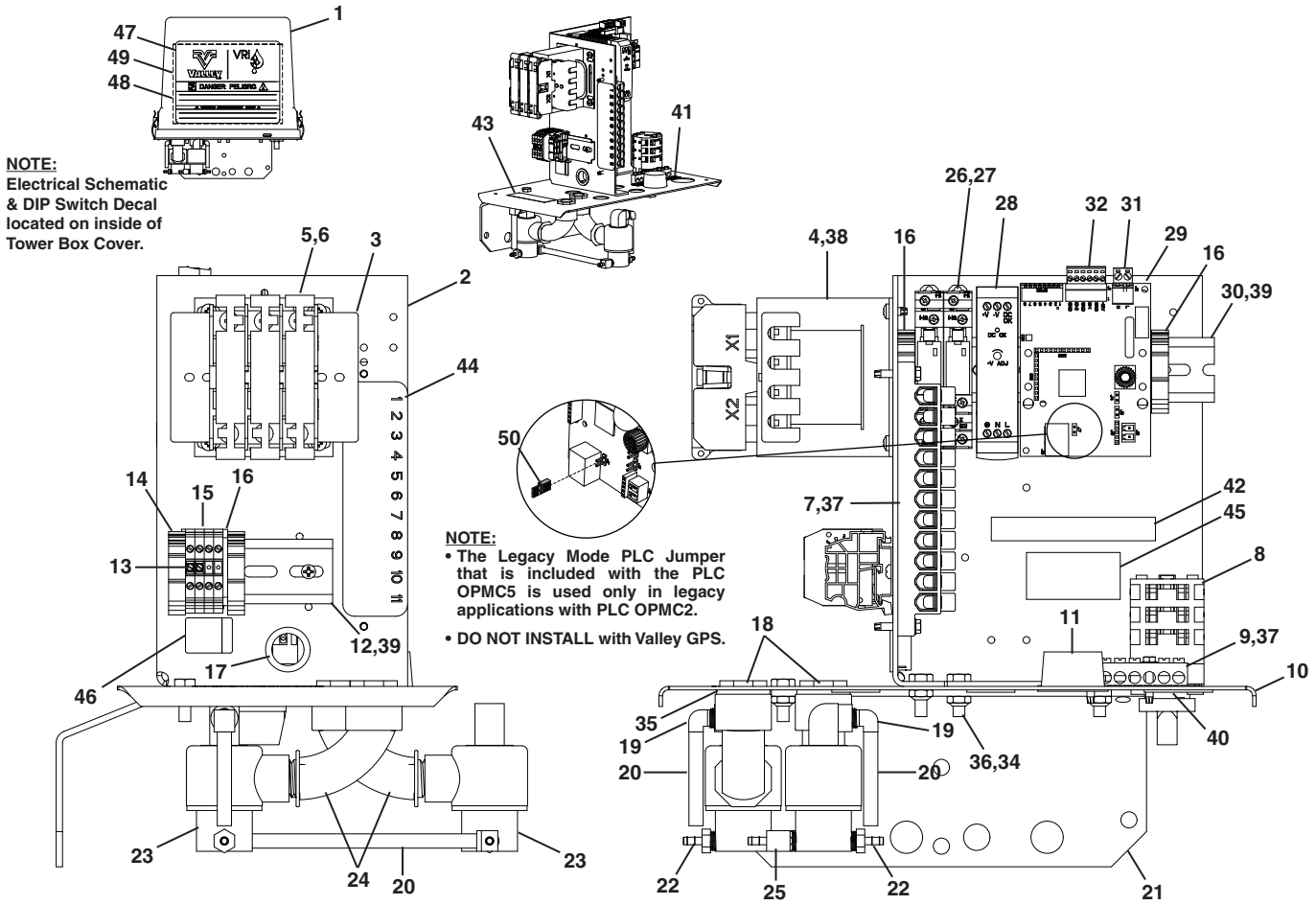
ITEM	DESCRIPTION	PART #
1	PC OPMC5 (includes Dinrail Clip 03E3022)	03E4243
2	Power Supply	03E2767
3	Shielded Cable - DB25 to RJ11	03E2781
4	Wire Tie Holder	03E0046
5	Wire Tie	03E1605
6	Terminal Strip Plug - 5.08mm, 2 Pole	03E3166
7	Terminal Strip Plug - 3.5mm, 6 Pole	03E3167
8	Shunt - 2 Position Red	03E4329*
9	Decal - VRI Dip Switch Settings (not shown)	0998384*
10	Null Modem Adapter - DB9	03E2317**
11	Y-Cable Harness	03E3765**
12	Adapter - DB9 Male/DB25 Female	03E3874**

*PLC Jumper Kit KA02668
(Item 9 - Decal should be placed over existing Dip Switch Decal when Item 8 - Shunt is used)

** VRI-Z Linear OPMC5 Install Kit KA02673
(Includes (4) Female/Female Standoff 03E3757)

Valley GPS PLC for Pro/Select Panel Assm. - OPMC5 9312970
(Assm. includes Screwdriver - 2.0-2.5mm Blade...0178009)

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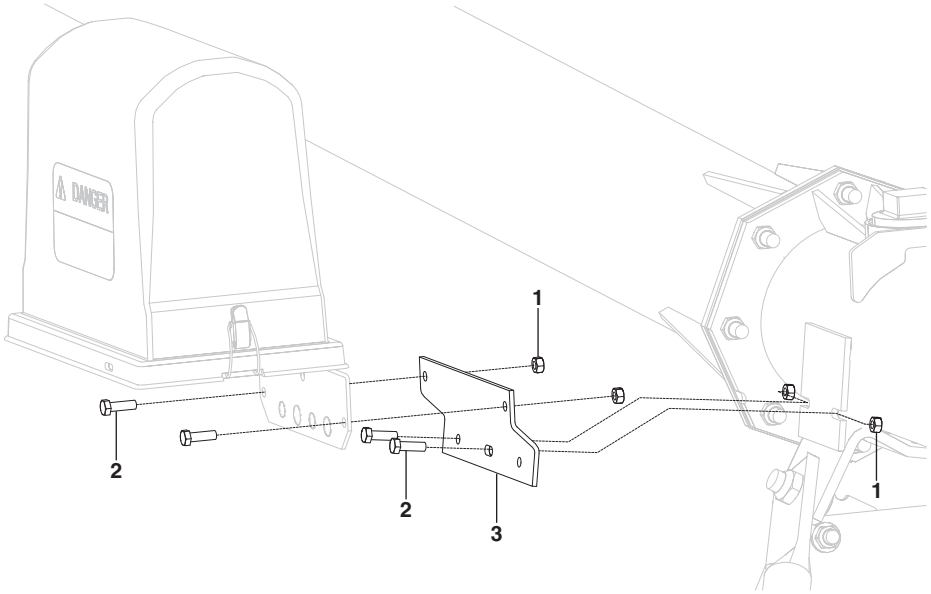
ITEM	DESCRIPTION	PART #
1	Electrical Tower Box Cover - UL	9311146
2	Control Plate	1702392
3	Transformer Cover	03E2877
4	Transformer	03E2876
5	Fuse Puller / Cover	03E2875
6	Fuse - 1-1/4 Amp	03E2874
7	Terminal Block	03E1899
8	Power Disconnect - 6 Pole	0315746
9	Ground Lug - 7 Terminal	0315120
10	Bottom Plate	1702391
11	Caplug 15x	0261010
12	Din Rail Channel - 3.5" Long	9311122
13	Terminal Jumper - 2 Pole	03E3000
14	Terminal Block, Din Rail Mount	03E2994
15	Terminal Block End Cover	03E2995
16	Din Rail End Stop	03E2996
17	Snap Bushing	0992070
18	Rigid Conduit Nipple	0244037
19	Elbow Tube to Male Pipe	0232361
20	Nylon Tubing - .304 O.D. x .180 I.D. x 500'	0272050
21	Tower Box Mounting Plate	1702054
22	Tube to Male Pipe MFL Connector	0232362
23	Solenoid Valve - Normally Closed	0232450
24	1/2" Bushed Elbow - Male to Female	0241057
25	1/8" NPT x 1/4" x 1/4" Tee Fitting	0232367
26	Relay Socket - Din Rail Mount	03E3100
27	Relay - Solid State 2 Amp	03E3101
28	Power Supply - 12V	03E2767
29	PC OPMC5 (includes Dinrail Clip 03E3022)	03E4243

ITEM	DESCRIPTION	PART #
30	Din Rail Channel - 6.75" Long	9310700
31	Terminal Strip Plug - 5.08mm, 2 Pole	03E3166
32	Terminal Strip Plug - 3.5mm, 6 Pole	03E3167
33	Tower Box Gasket Kit (not shown)	0992071
34	1/4" Lock Nut	0133008
35	Flat Washer - 1.136"	0142075
36	1/4" x 3/4" Cap Screw	0161057
37	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
38	#8 x 3/8" Self-Tapping Screw - Phillips Head	0161412
39	#8 x 1/4" Self-Tapping Screw - Phillips Head	0164226
40	Decal - Disconnect	0992090
41	Decal - Ground	0992925
42	Decal - Copper Wire ONLY	0994836
43	Decal - 3R Enclosure	0996403
44	Decal - 11 Pole Terminal Strip	0997991
45	Decal - Circuit Supply	0997992
46	Decal - Site Specific Valves	0997995
47	Decal - VRI Logo	0998052
48	Decal - Electrical Schematic	0980283
49	Decal - DIP Switch Settings	0980319
50	Shunt - 2 Position Red	03E4329 *
51	Decal - VRI Dip Switch Settings (not shown)	0998384 *

* PLC Jumper Kit KA02668
(Item 51 - Decal should be placed over existing Item 49 - Decal when Item 50 - Shunt is used)

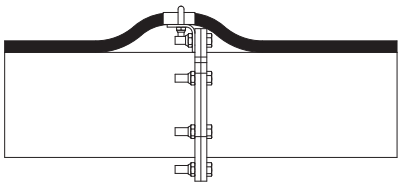
VRI Zone Intermediate Box Assm. - OPMC5 1815435

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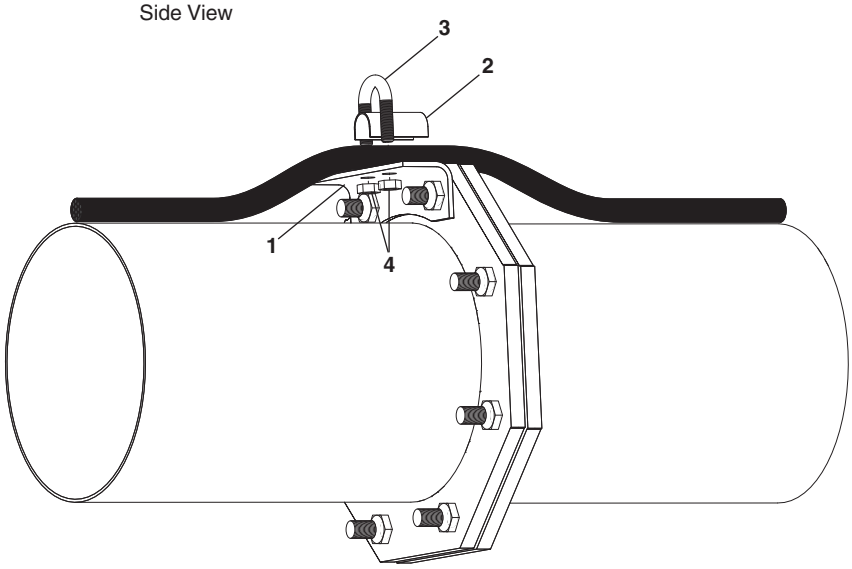


ITEM	DESCRIPTION	PART #
1	5/16" Hex Nut	0131019
2	5/16" x 1" Cap Screw	0161052
3	Control Box Mounting Plate	1700494
	VRI Tower Box Mount Kit (includes (2) Strain Relief Hub - 1"...0314466)	KA09936

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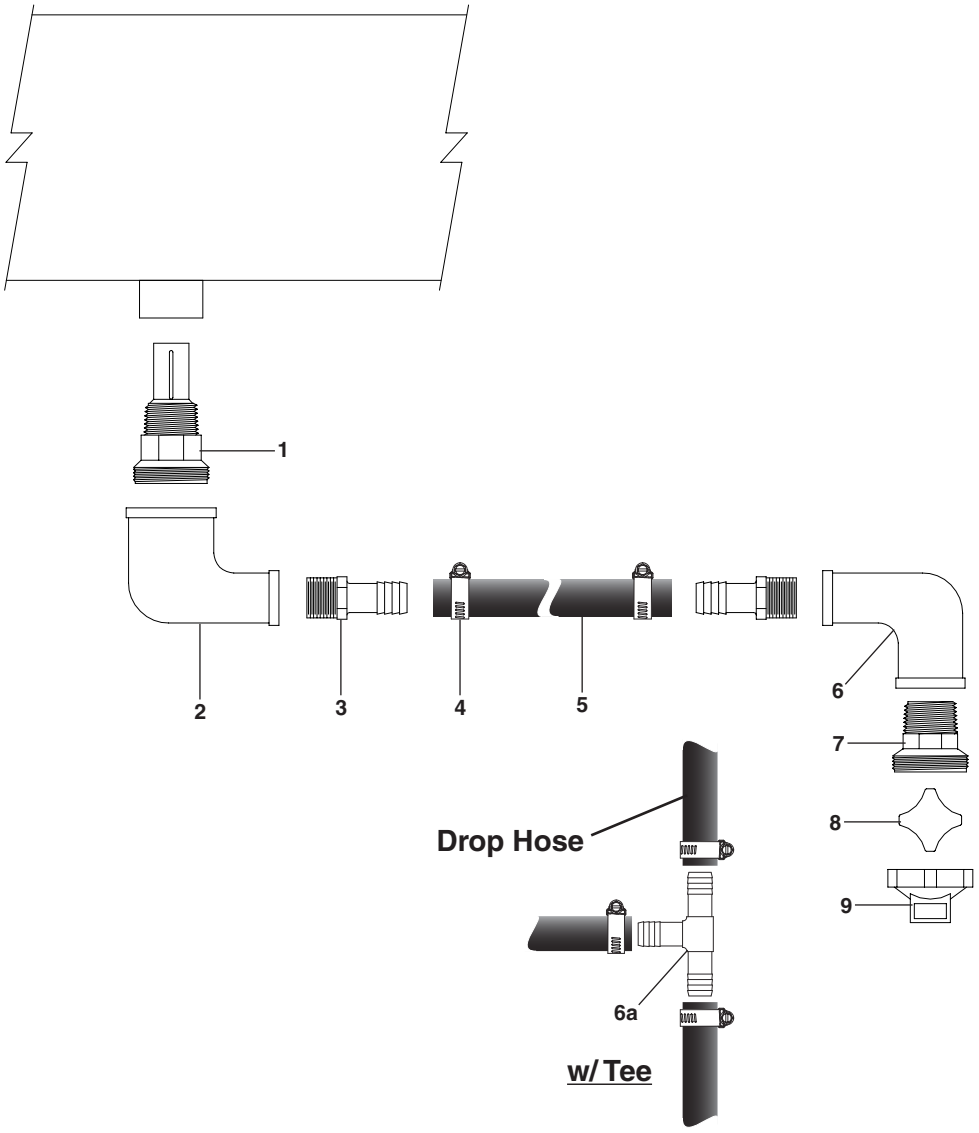


Side View



ITEM	DESCRIPTION	PART #
1	Flange Mount Bracket	9363469
2	Cable Clamp Shim - Small	9363470
	- Medium	9363471
	- Large	9363472
3	3/8" x 1-3/4" Long U-Bolt	0176035
4	3/8" Lock Nut	0133006
	Span Cable Clamp Kit - Small	KA09865
	- Medium	KA09866
	- Large	KA09867

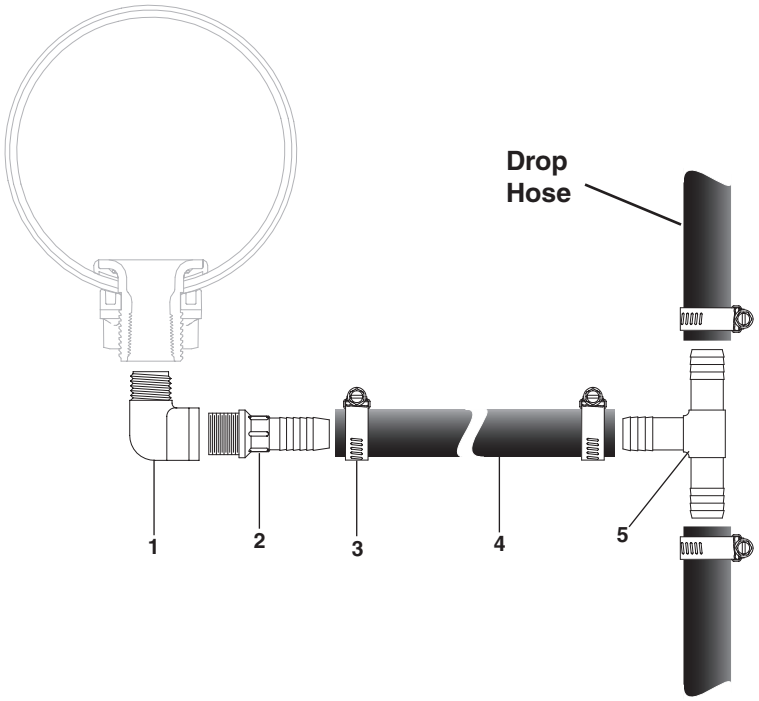
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ITEM	DESCRIPTION	PART #
1	Upper Drain Body	0246170
2	1-1/2" x 3/4" Reducer Elbow	0241097
3	3/4" x 3/4" NPT Hose Barb	0271077
4	3/4" Hose Clamp	0271001
5	3/4" Flex Hose - 15 ft. Long	0272033
6	1" x 3/4" Reducer Elbow	0241098
6a	3/4" x 3/4" x 3/4" Tee Insert	0242071
7	Upper Drain Body	0232023
8	Drain Seal	0232568
9	Lower Drain Body	0232004
	Span Drain f/Dry Wheel Track (incl. 2, 3, 4, 6 & 7)	KA09154
	Span Drain f/Dry Wheel Track w/Tee (incl. 2, 3, 4, 6a & 7)	KA09155

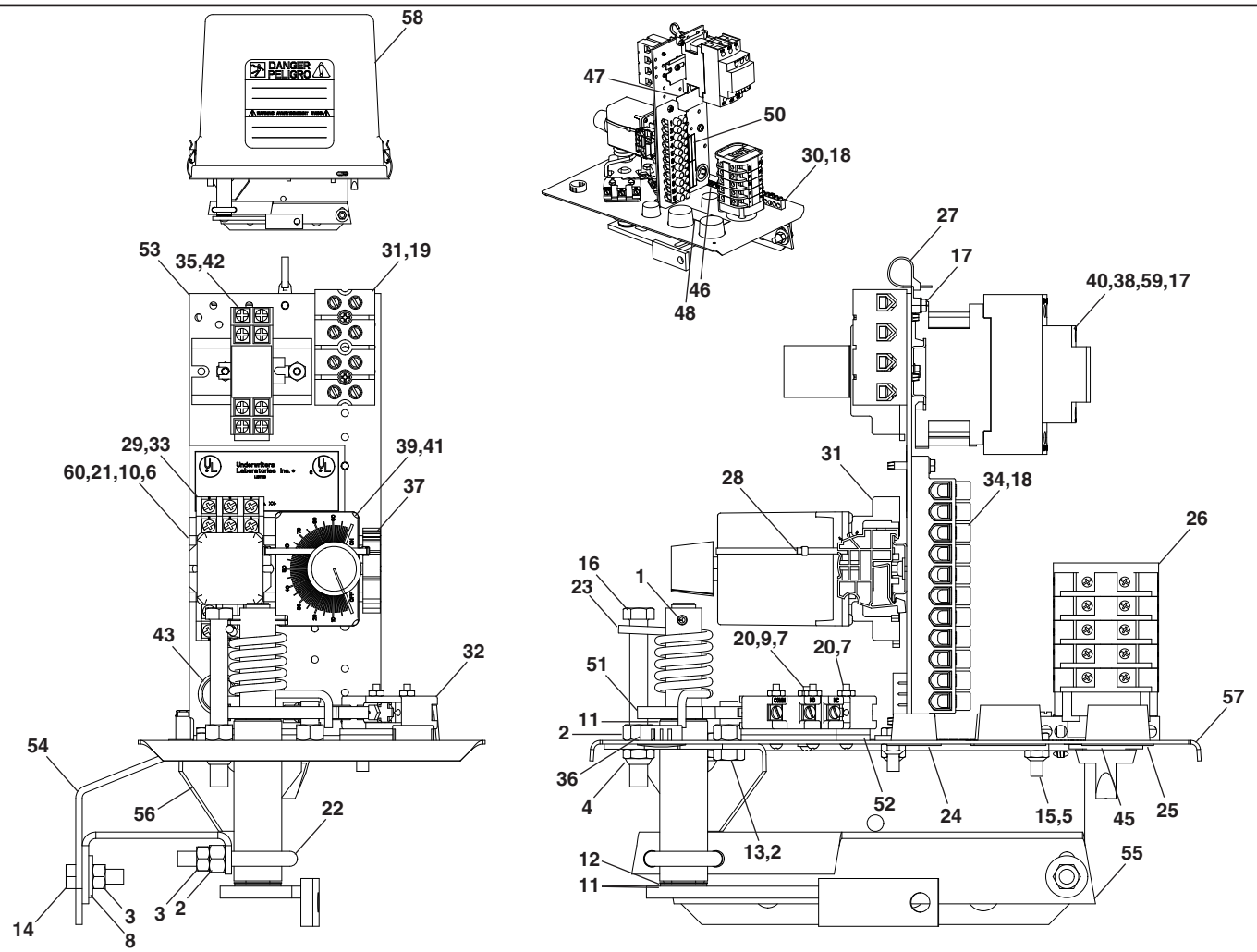
***NOTE: Tyton Ty Wraps included in both kits.**

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ITEM	DESCRIPTION	PART #
1	3/4" Street Elbow	0241075
2	3/4" x 3/4" NPT Fitting	0271077
3	1-1/4" Hose Clamp	0271084
4	3/4" Flex Hose - 15 ft. Long	1703771
5	3/4" x 3/4" x 3/4" Tee Insert	0242071
	PolySpan Fitting Hardware Kit (Includes Items 1,2,3 & 5)	KA09729

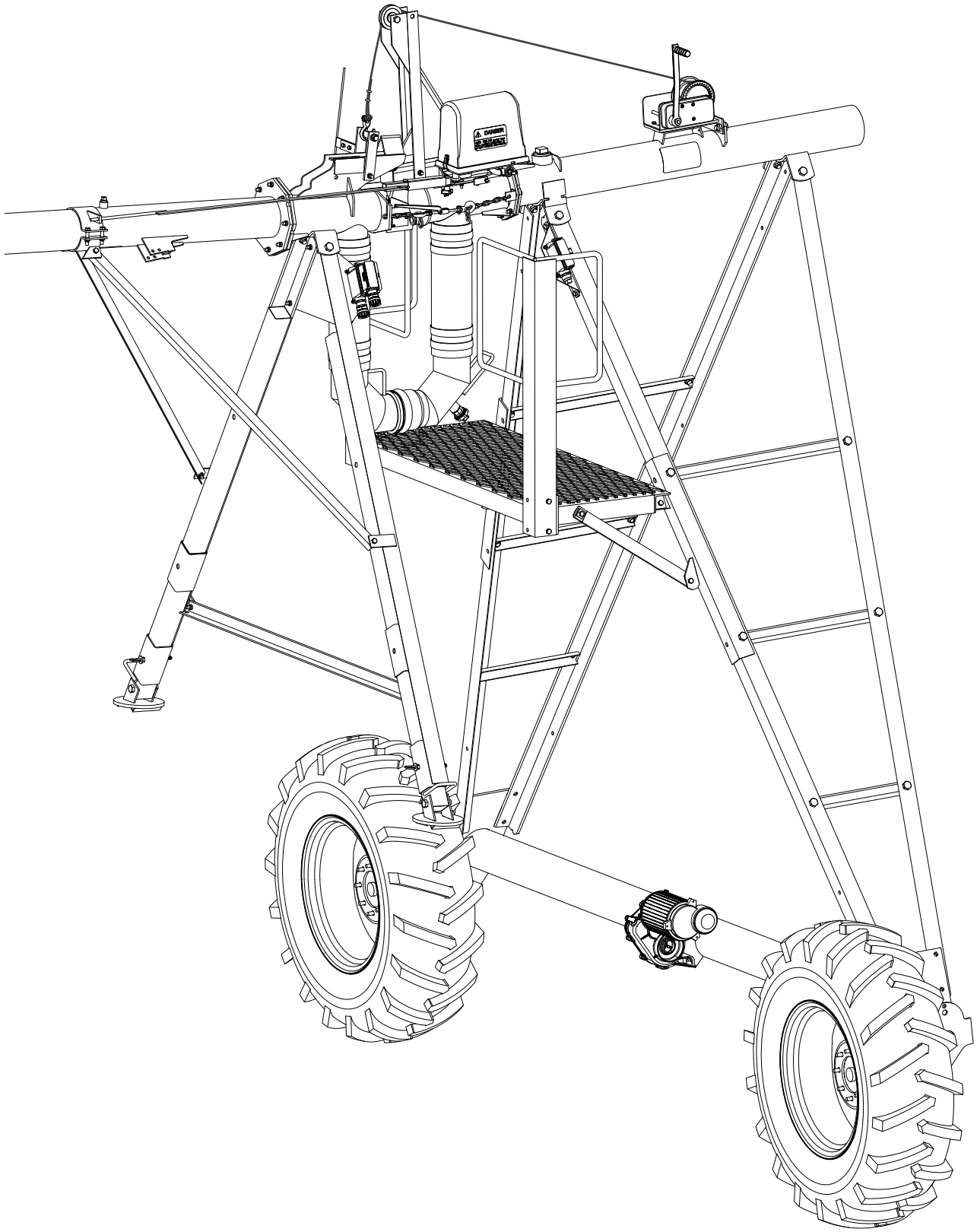
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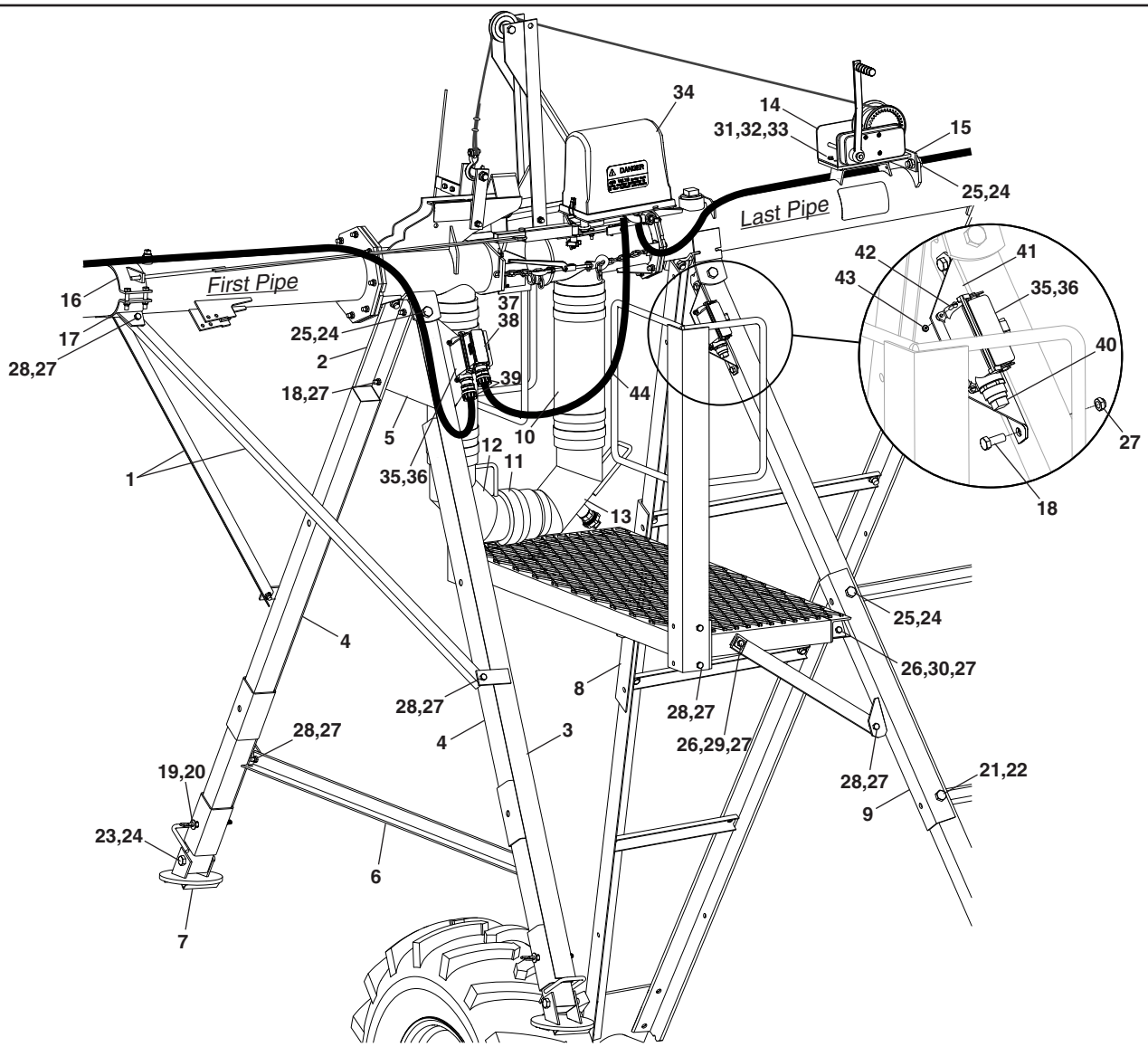
ITEM	DESCRIPTION	PART #
1	3/16" x 1-1/4" Roll Pin	0111017
2	3/8" Hex Nut	0131018
3	5/16" Hex Nut	0131019
4	3/8" Lock Nut	0133006
5	1/4" Lock Nut	0133008
6	#8 Hex Nut	0134023
7	#6 Hex Nut	0134027
8	5/16" Flat Washer	0142017
9	#6 Flat Washer	0142074
10	#8 Flat Washer .049 x .188 x .438 - Stainless Steel	0142084
11	Washer .030 x .510 x .968 - Stainless Steel	0143047
12	Washer .010 x .512 x .996 - Stainless Steel	0143066
13	3/8" x 1" Cap Screw	0161045
14	5/16" x 1" Cap Screw	0161052
15	1/4" x 3/4" Cap Screw	0161057
16	3/8" x 3-1/2" Cap Screw	0161150
17	#8 x 1/2" Self-Tapping Screw	0161355
18	#8 x 7/8" Self-Tapping Screw	0161356
19	#8 x 1-1/4" Cap Screw	0161357
20	#6 x 1-1/4" RH Screw	0164054
21	#8 x 3/8" RH Screw	0164193
22	5/16" x 1" U-Bolt	0176049
23	Torsion Spring - Control Box	0181046
24	12 Caplug	0261008
25	15X Caplug	0261010
26	Power Disconnect - 10 Pole	0314540
27	Wire Tie	0314793
28	Cable Tie - Black 11" Long	0314834
29	Relay - 3PDT 120V AC	0314936
30	Ground Lug - 7 Term.	0315120
31	Terminal Strip - 4 Term.	0315571

ITEM	DESCRIPTION	PART #
32	Microswitch - Minimum Travel	03E0307
33	Relay Socket - 3PDT 11 Pin Blade	03E1650
34	Terminal Block - 11 Term. 600V	03E1899
35	Relay Socket - 2 Pole 10A 300V	03E2107
36	Snap Button Hole Plug	03E2166
37	Dinrail End Stop	03E2996
38	Suppressor	03E3546
39	Slowdown Percent Timer	03E3677
40	3 Pole Contactor - 25A 120V (Boxed)	03E3785
41	Octal Socket - 8 Pin	03E3748
42	Relay w/Indicator - DPDT 120VAC	03E4197
43	Snap Bushing	0992070
44	Gasket (NOT SHOWN for clarity)	0992071
45	Decal - Disconnect	0992090
46	Decal - Ground	0992925
47	Decal - Power Supply 1.5 H.P. 10 Amps	0994149
48	Decal - 3R Enclosure	0996403
49	Decal - Drop Span Tower Box (not shown inside cover)	0998344
50	Decal - Terminal Block Torque Copper Wire	0998450
51	Switch Pivot & Arm Assm.	1701262
52	Sensor Base Insulator	1701632
53	Vertical Bracket	1702053
54	Tower Box Mounting Plate	1702054
55	Sensor Bearing Support Bracket	1702294
56	Sensor Bearing w/ Bushing Assm.	1703336
57	Tower Box Bottom Plate - Drop Span	1704229
58	Tower Box Cover - UL	9311146
59	Din Rail Mount Channel - 2.50" Long	9311988
60	Din Rail Mount Channel - 4.00" Long	9312401
	Drop Span Tower Box Assm.	1815006

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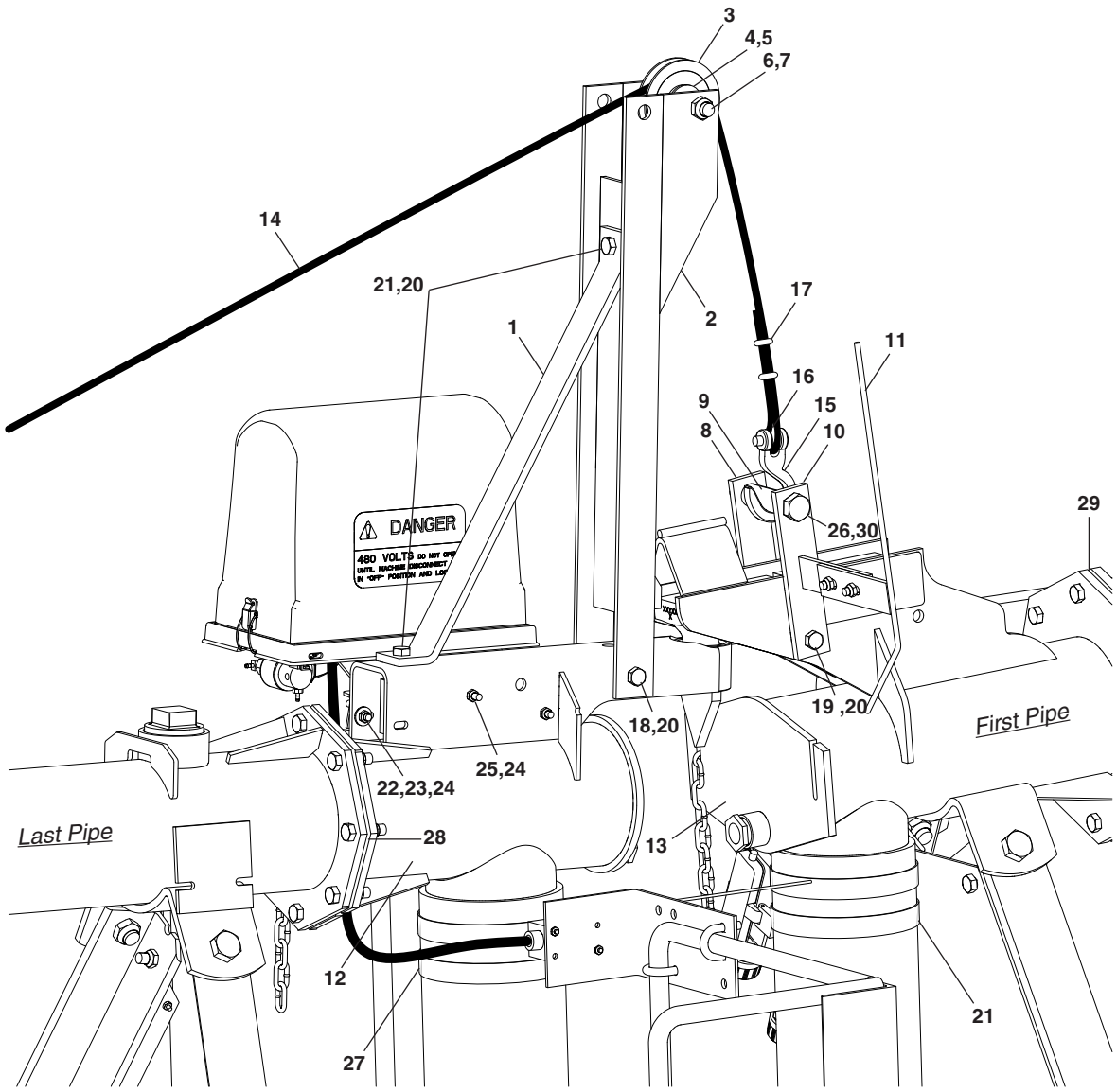
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ITEM	DESCRIPTION	PART #
1	Brace - Medium Truss	1701645
2	Support Leg Assm. - Front	9364011
3	Support Leg Assm. - Rear	9364012
4	Support Tube Assm.	9364041
5	Drive Unit Reinforcing Plate	1780400
6	Truss Spreader	9360049
7	Foot Pad Assm.	9364016
8	Platform Mount Assm. - Front	9364024
9	Platform Mount Assm. - Rear	9364025
10	Flex Joint Hose - 6" x 22"	9363998
11	Circle Lock Ring	0992318
12	6" Elbow - Male Ringlock x Hose Bead	1K02061
13	6" Elbow Coupler w/Handle	1K02060
14	Automatic Brake Winch - 2500 LB	0998348
15	Winch Mount Assm.	9364038
16	Control Rod Clamp Conversion Ear Assm.	1702408
17	Brace Bracket Assm.	9364046
18	1/2" x 1-1/4" Cap Screw - Grade 8	0161420
19	3/4 Torque Pin	0112043
20	1/4" x 1-3/8" Lynch Pin	0112042
21	5/8" x 1-3/4" Cap Screw	0161088
22	5/8" Lock Nut	0133010
23	3/4" x 4-1/2" Cap Screw	0161030

ITEM	DESCRIPTION	PART #
24	3/4" Lock Nut	0133011
25	3/4" x 1-3/4" Cap Screw	0161139
26	1/2" x 2" Cap Screw	0161024
27	1/2" Lock Nut	0133005
28	1/2" x 1-1/4" Cap Screw	0161027
29	5/8" Washer - 10° Taper	0143065
30	1/2" Flat Washer	0142025
31	3/8" x 1" Cap Screw	0161045
32	3/8" Flat Washer	0142031
33	3/8" Lock Nut	0133006
34	DropSpan Tower Box	1815006
35	1" Connector Base - Rectangular High Profile	03E3211*
36	Male Connector Insert - Rectangular	03E3212*
37	HBE 24 Housing	03E3210*
38	Female Connector Insert - Rectangular	03E3213*
39	1" Strain Relief Hub - Yellow Grommet	0314466*
40	1" NPT Pipe Plug - Square Head Galvanized	0246003*
41	Socket Mount Bracket	9364044
42	#10 x 3/4" RH Screw	0164038*
43	#10 Hex Nut	0131055*
44	Electrical Cable - 12 Cond. 10 Ga. - 8' Long	1814370*
	*DropSpan Electrical Hardware Kit	KA01499

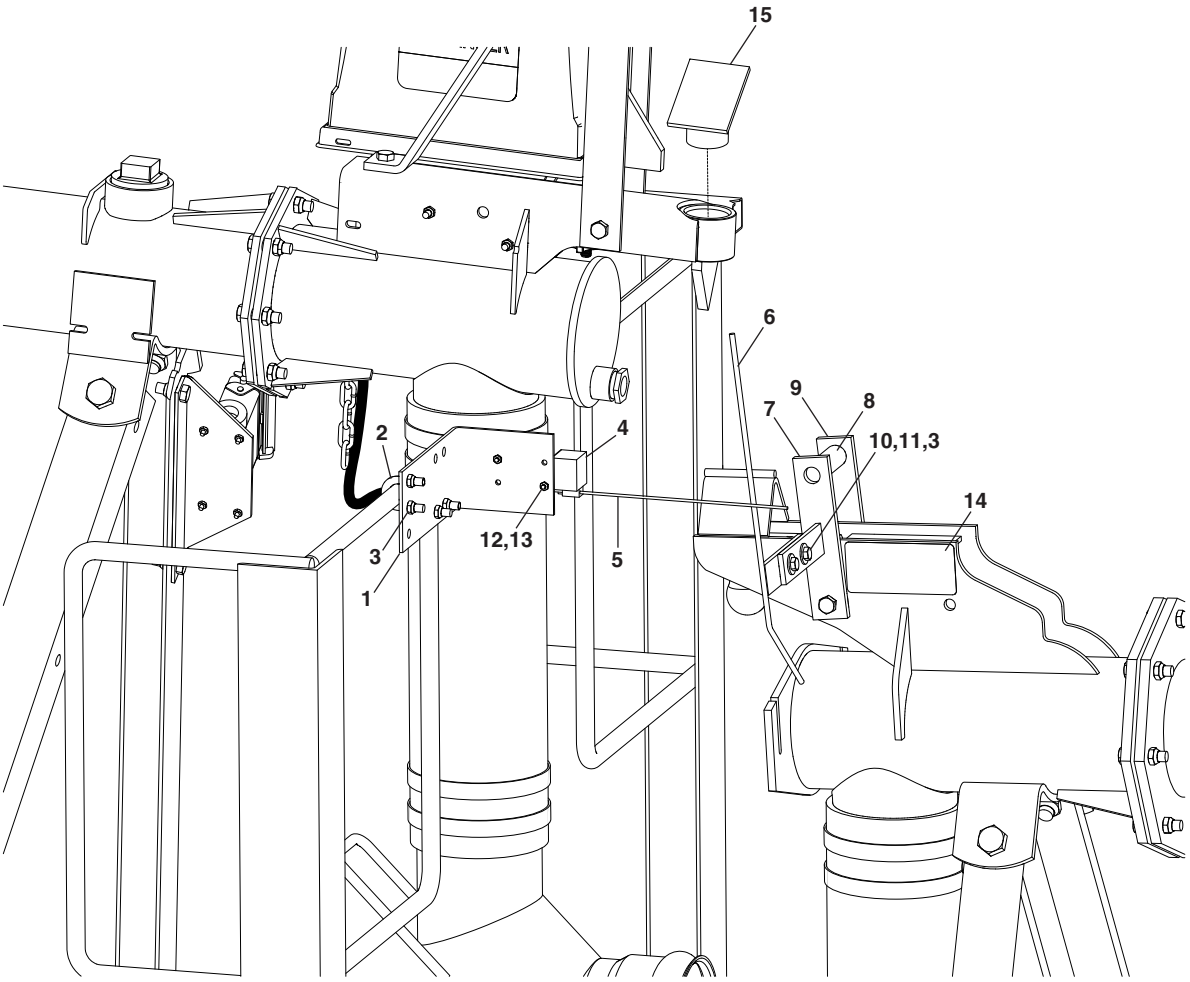
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ITEM	DESCRIPTION	PART #
1	Pulley Brace	9364047
2	Pulley Mount Assm.	9364034
3	Sheave, Wire Rope - 3000lb. Capacity	0999514
	Cable Pulley - 4" O.D. - for 5/16" Dia. Cable	0998433
4	Bushing - Sheave	0192028
5	5/8" Flat Washer	0142011
6	5/8" x 4-1/2" Cap Screw	0161121
7	5/8" Lock Nut	0133010
8	Lift Bar	9364019
9	Bushing Lift	9364045
10	Lift Bar Assm.	9363994
11	Stop Rod Assm.	9363996
12	Female Stub Assm.	9364007
13	Male Stub Assm.	9364006
14	3/8" Cable - 14' - Effective May 2015	1704293
	5/16" Cable - 14' - Prior to May 2015	1704237
15	Slip Hook	0992731

ITEM	DESCRIPTION	PART #
16	3/8" Cable Thimble - Effective May 2015	0202035
	5/16" Cable Thimble - Prior to May 2015	0202028
17	3/8" Cable Clamp - Effective May 2015	0202034
	5/16" Cable Clamp - Prior to May 2015	0202021
18	1/2" x 4-1/2" Cap Screw	0161110
19	1/2" x 5" Cap Screw	0161111
20	1/2" Lock Nut	0133005
21	1/2" x 1-1/4" Cap Screw	0161027
22	5/16" x 1" Cap Screw	0161052
23	5/16" Flat Washer	0142017
24	5/16" Lock Nut	0133007
25	5/16" x 4" Cap Screw	0161181
26	3/4" x 5" Cap Screw	0161144
27	Flex Joint Clamp - 6" Hose	0991186
28	Flat Gasket - Universal - 8" & 8-5/8"	0996566
29	Pipe Gasket - 6-5/8"	0991107
30	3/4" Lock Nut	0133011

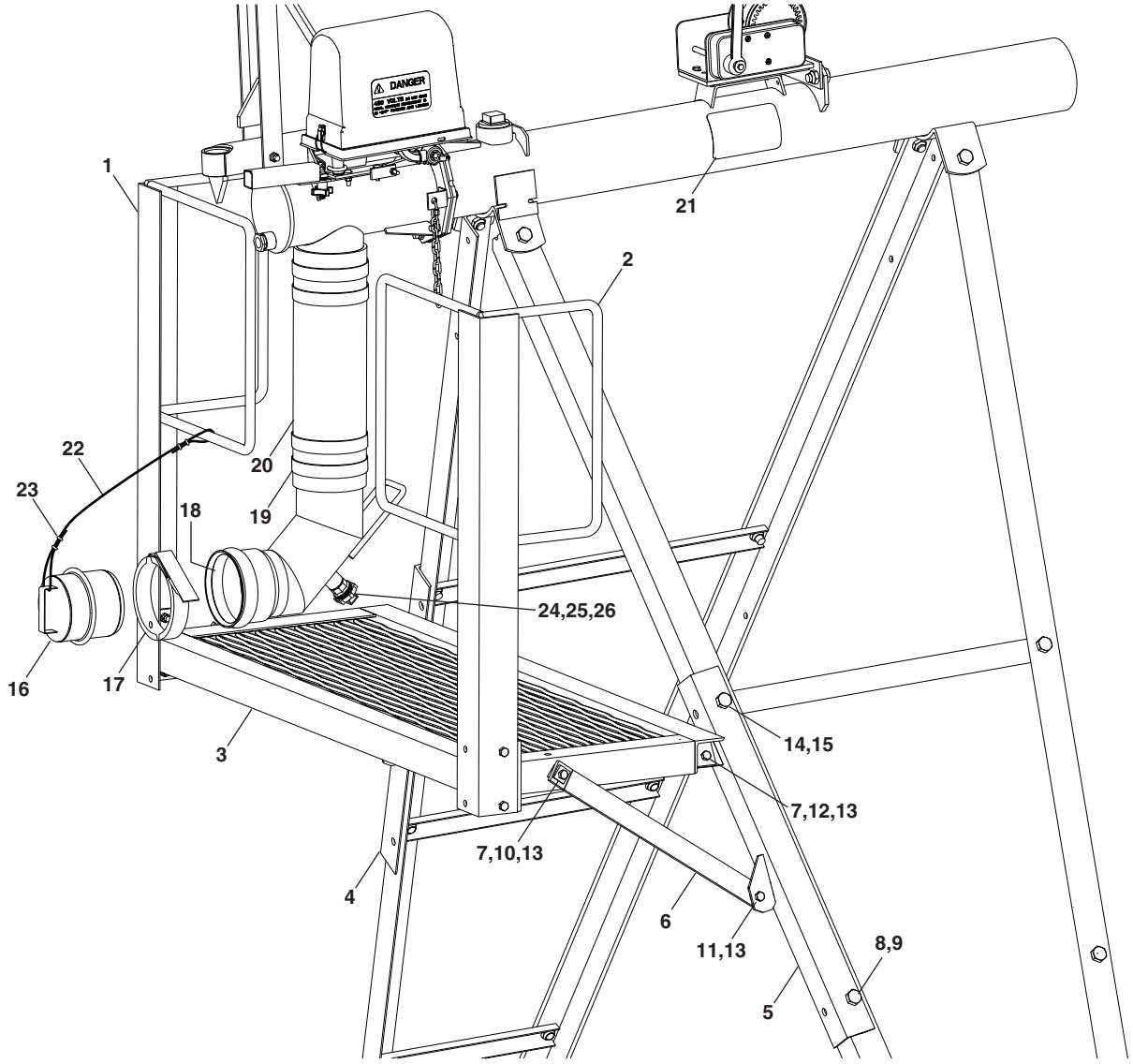
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ITEM	DESCRIPTION	PART #
1	Switch Mount Bracket	9364043
2	3/8" x 5/16" U-Bolt - 1-3/4" Lont	0176035 *
3	3/8" Lock Nut	0133006 *
4	Limit Switch Assm.	1811451 *
5	Microswitch Arm Lever	0315623 *
6	Stop Rod Assm.	9363996
7	Lift Bar Assm.	9363994
8	Bushing Lift	9364045
9	Lift Bar	9364019
10	3/8" x 1" Cap Screw	0161045
11	3/8" Flat Washer	0142031
12	#10 x 2" RH Screw	0164137 *
13	#10 Hex Nut	0131055
14	Decal - Drop Span Pinch Point Danger	0998406
15	Ramp Assm.	9363999

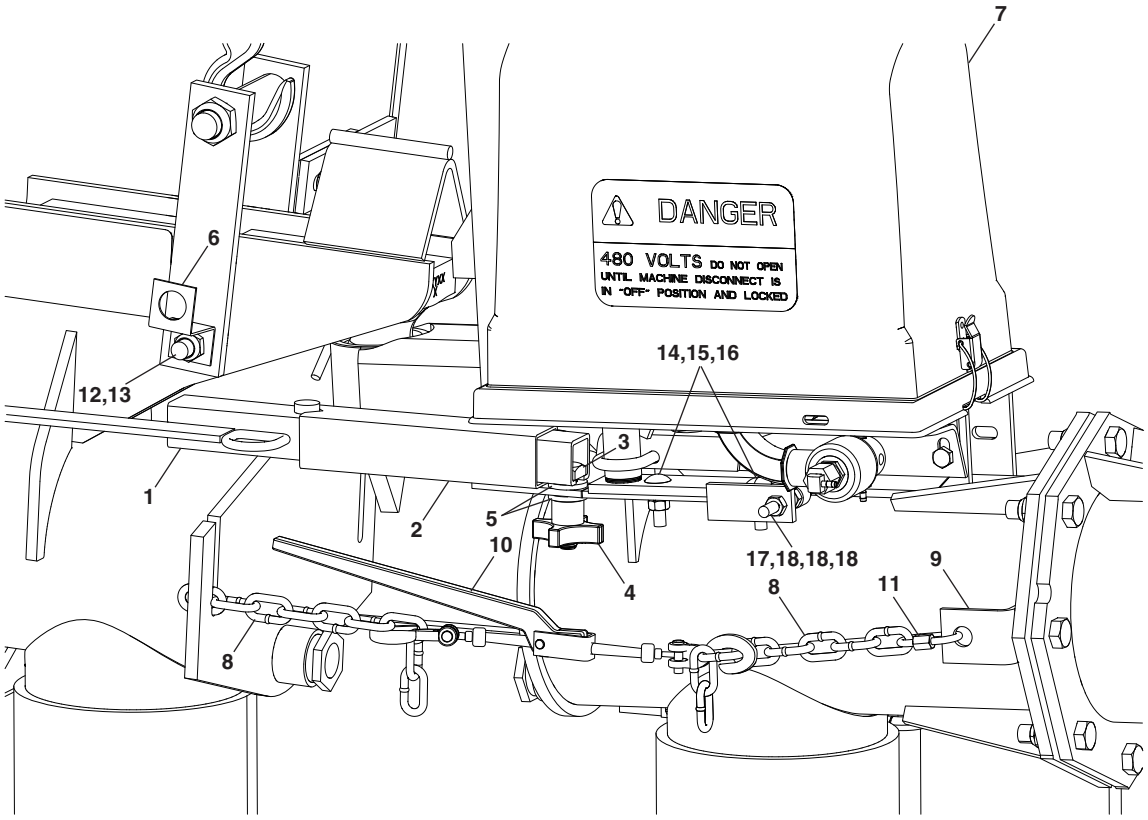
*** DropSpan Electrical Hardware Kit KA01499**

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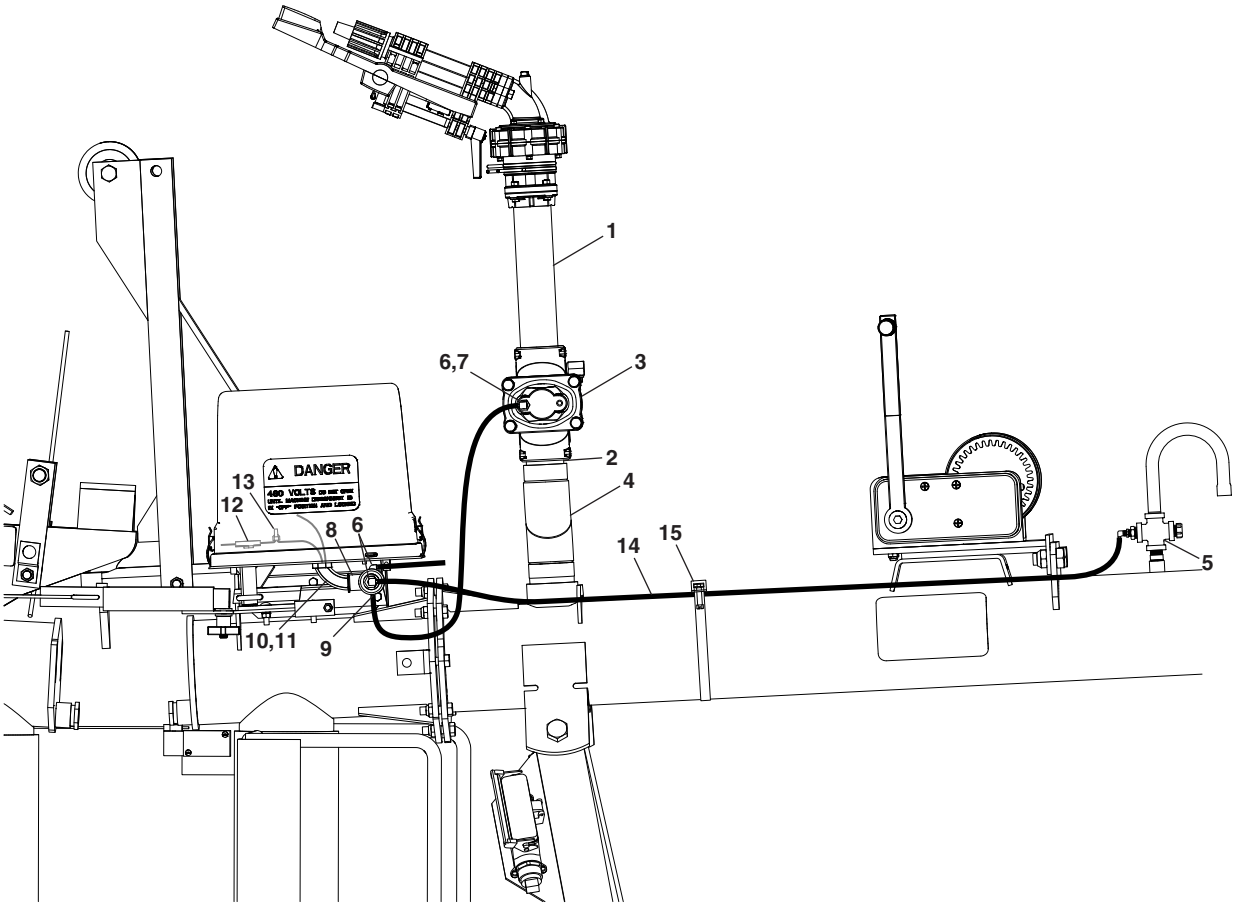
ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Platform Step Rail Assm. - RH	9363944	14	3/4" x 1-3/4" Cap Screw	0161139
2	Platform Step Rail Assm. - LH	9363943	15	3/4" Lock Nut	0133011
3	Platform Assm.	9364029	16	6" Ring Lock End Plug	1K01265
4	Platform Mount Assm. - Front	9364024	17	6" Circle Lock Ring	0992318
5	Platform Mount Assm. - Rear	9364025	18	6" Pierce Gasket	0221015
6	Platform Brace	9364042	19	6" Flex Joint Hose Clamp	0991186
7	1/2" x 2" Cap Screw	0161024	20	Flex Hose - 6" x 22"	9363998
8	5/8" x 1-3/4" Cap Screw	0161088	21	Decal - Drop Span Procedure Warning	0998407
9	5/8" Lock Nut	0133010	22	Plug Cable	9364108
10	5/8" Washer - 10° Taper	0143065	23	Cable Clamp	0202016
11	1/2" x 1-1/4" Cap Screw	0161027	24	Upper Drain Body	0246170
12	1/2" Flat Washer	0142025	25	Drain Seal	0232568
13	1/2" Lock Nut	0133005	26	Lower Drain Body	0232004

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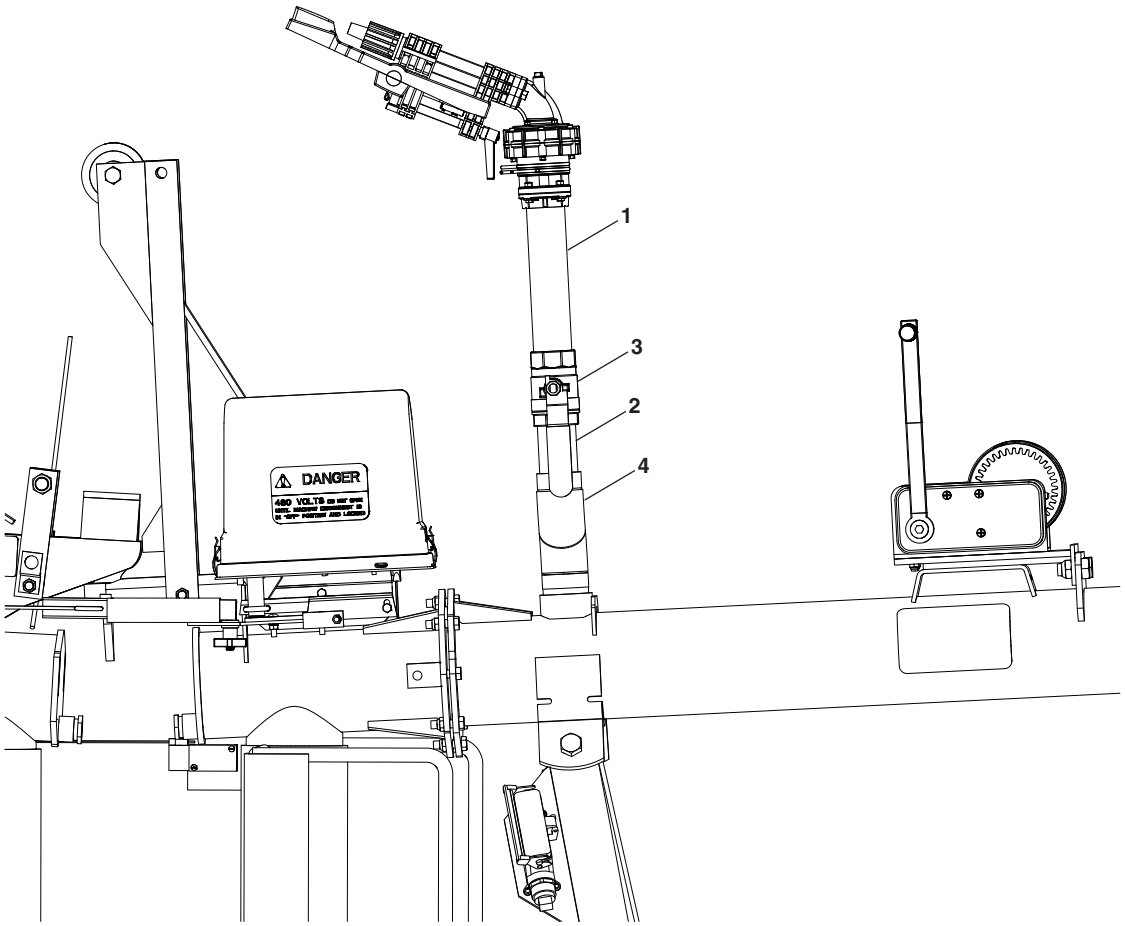
ITEM	DESCRIPTION	PART #
1	Alignment Arm Assm. - Outer	1704236
2	Alignment Arm Assm. - Inner	1704231
3	1/2" x 2" Bolt - Square Head	0176072
4	1/2" Threaded Knob - 4-Arm	0998342
5	1/2" Flat Washer	0142025
6	Sealtite Keeper	1700157
7	DropSpan Tower Box Assm.	1815006
8	Straight Link Chain - 8 Links	0323069
9	Chain Bracket	9364048
10	Load Binder - 2600 LB	0998343
11	3/16" Threaded Chain Connector	0323042
12	1/2" x 5" Cap Screw	0161111
13	1/2" Lock Nut	0133005
14	5/16" x 1-1/4" Carriage Bolt	0175013
15	5/16" Lock Washer	0141008
16	5/16" Hex Nut - Plated	0131019
17	5/16" x 2-1/2" Cap Screw	0163046
18	5/16" Hex Nut - Galvanized	0131079

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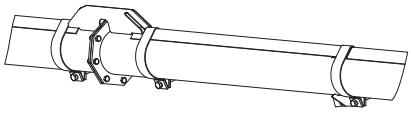
ITEM	DESCRIPTION	PART #
1	2" NPT x 10" Nipple - Galvanized	0211004
2	2" NPT x 2" Nipple - Galvanized	0211008
3	2" Komet End Gun Valve	KA09903
4	S-Fitting Assm.	9363980
5	3/4" Filter Cross Assm.	9360897
6	Elbow Tube to Male Pipe Fitting	0232361
7	1/4" x 1/8" Reducer Fitting	0244024
8	Solenoid Valve w/ Coil - 120V 60 Cycle N.O.	0232452
9	Tube to Male Pipe MFL Connector	0232362
10	1/2" Bushed Gedney Elbow Fitting	0241057
11	1/2" Rigid Conduit Nipple	0244037
12	Fuse Holder Assm.	1811175
13	Spring Connector - 18-12 Ga.	0314151
14	.304 O.D. x .180 I.D. x 10' Nylon Tubing	1704093
15	6" Pipe Clamp	0271021

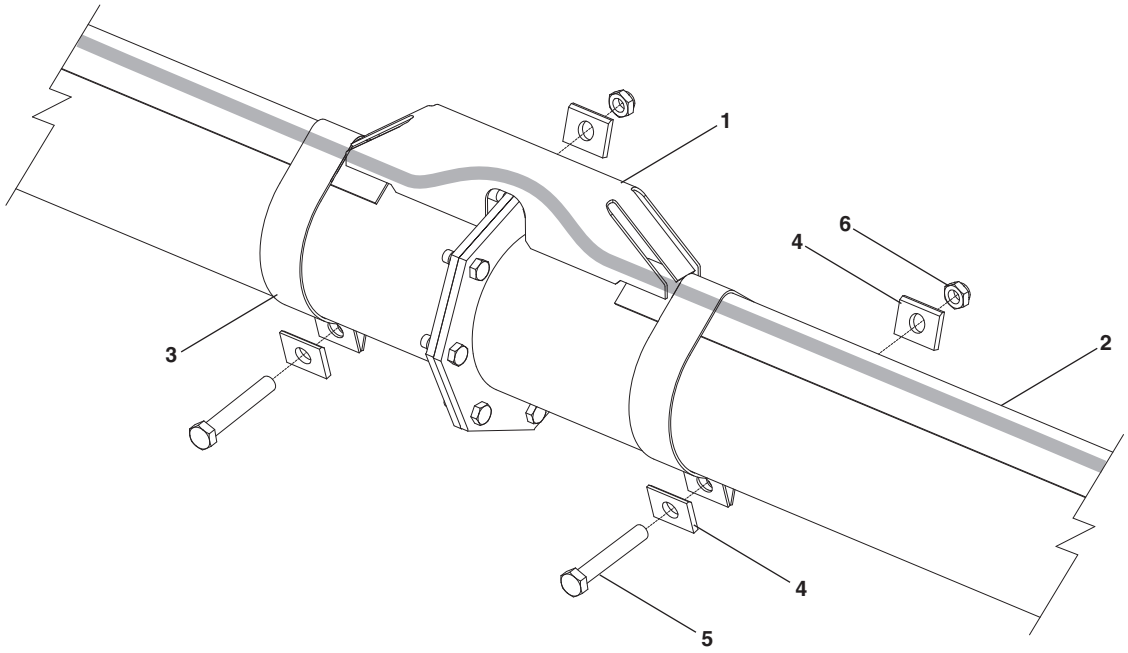
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ITEM	DESCRIPTION	PART #
1	2" NPT x 10" Nipple - Galvanized	0211004
2	2" NPT x 4-1/2" Nipple - Galvanized	0211047
3	2" End Gun Ball Valve - Manual Shutoff	0232046
4	S-Fitting Assm.	9363980

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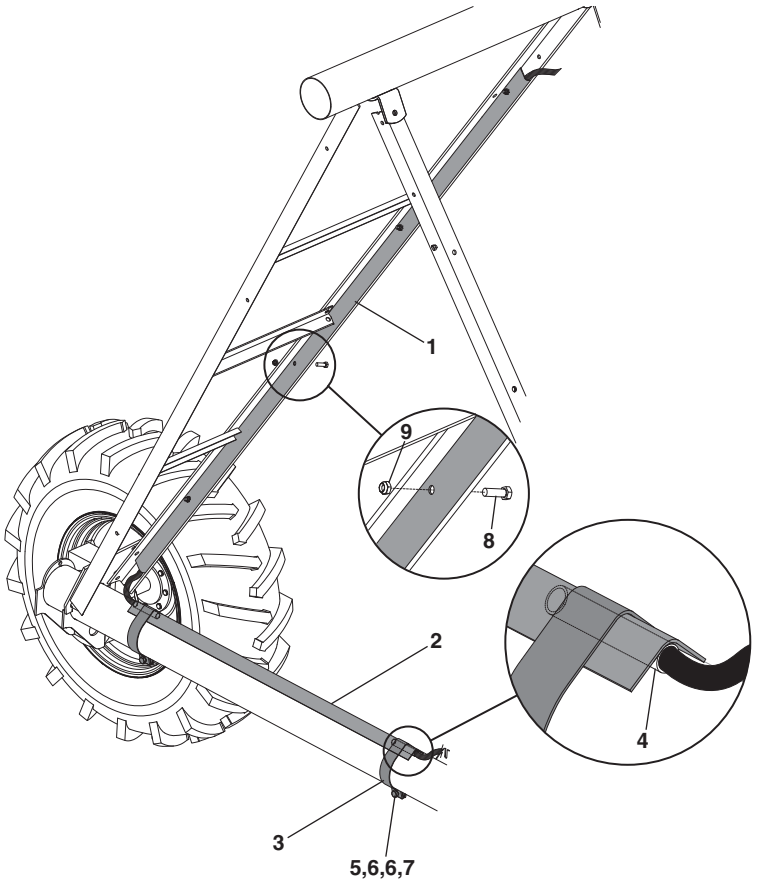




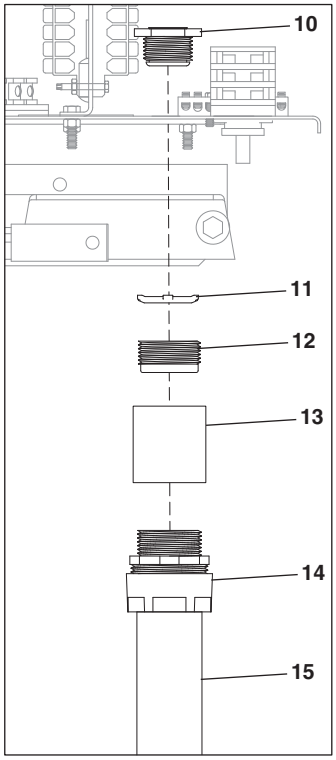
ITEM	DESCRIPTION	PART #
1	Flange Cover Assm.	9364064
2	Flashing - 28.00" Long	9364106
	- 45.00" Long	9363522
	- 120.00" Long	9363526
3	Clamp - 5"	9363674
	- 6"	9364095
	- 6-5/8"	9364062
	- 8-5/8"	9364082
	- 10"	9364083
4	Heavy Washer	9364061*
5	5/8" x 4" Cap Screw - All Thread	0161434*
6	5/8" Lock Nut	0133010*

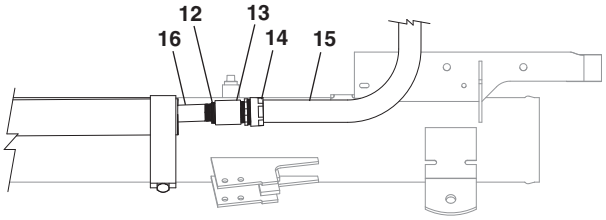
* Cable Theft Deterrent Clamp Kit KA01517
(2 ea. Heavy Washer 9364061)

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NOTE: Use arrangement below for all Tower Boxes, including A.R.A.S., and Control Panel.

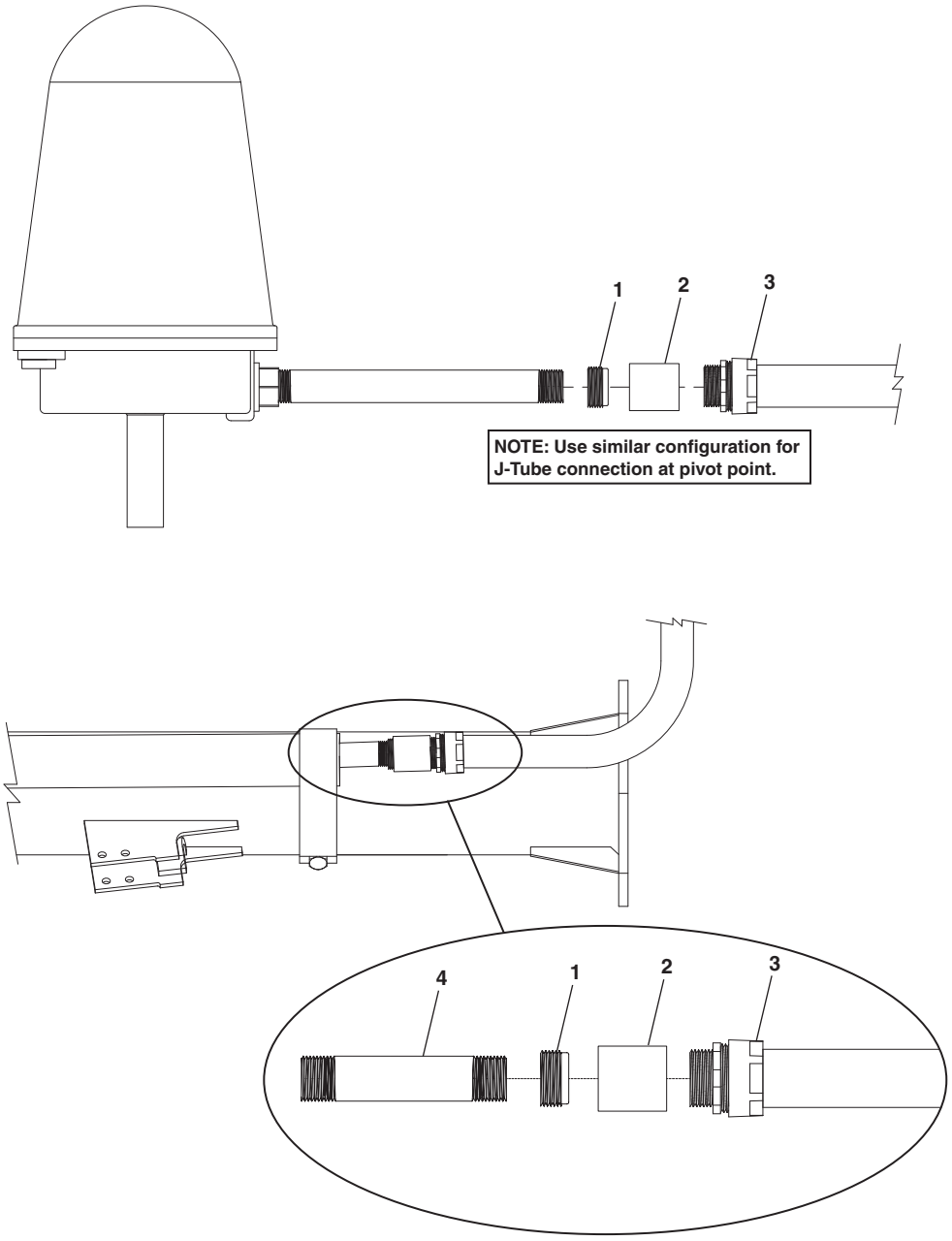




ITEM	DESCRIPTION	PART #
1	Motor Lead Guard	9364085
2	Flashing - Basebeam	9364087
3	Clamp - 6-5/8"	9364062
4	Guard Tube	1704246
5	5/8" x 4" Cap Screw - All Thread	0161434
6	Heavy Washer	9364061
7	5/8" Lock Nut	0133010
8	1/2" x 1" Cap Screw	0161028
9	1/2" Lock Nut	0133005
10	1" Nipple w/ Insert	03E2797*
11	1" Conduit Lock Nut	0315761*
12	1" x 1-1/4" Reducing Bushing	03E2795*
13	1-1/4" Coupler - Galvanized	0245077*
14	1-1/4" Liquid Tight Connector	03E3240*
15	Flex Conduit - 6' Long	9363528
16	1" x 6" Nipple - Galvanized	0211124*

*** Cable Armor Conduit to Tower Box Kit KA09885**

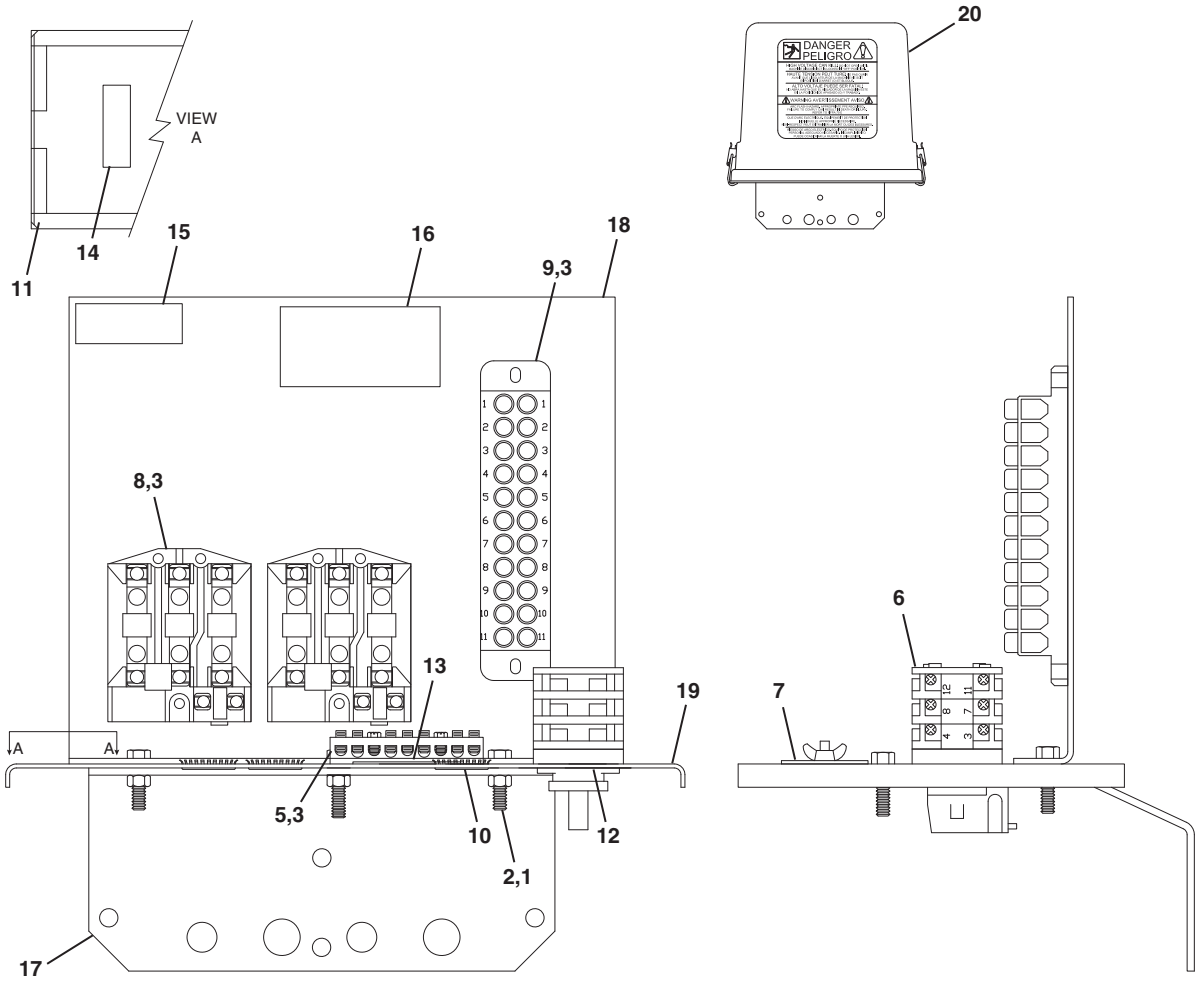
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ITEM	DESCRIPTION	PART #
1	1-1/4" x 1" Reducing Bushing	03E2795*
2	1-1/4" Coupler - Galvanized	0245077*
3	1-1/4" Liquid Tight Connector	03E3240*
4	1" x 6" Nipple - Galvanized	0211124*

*** Cable Armor Conduit to Collector Ring Kit ... KA09884**

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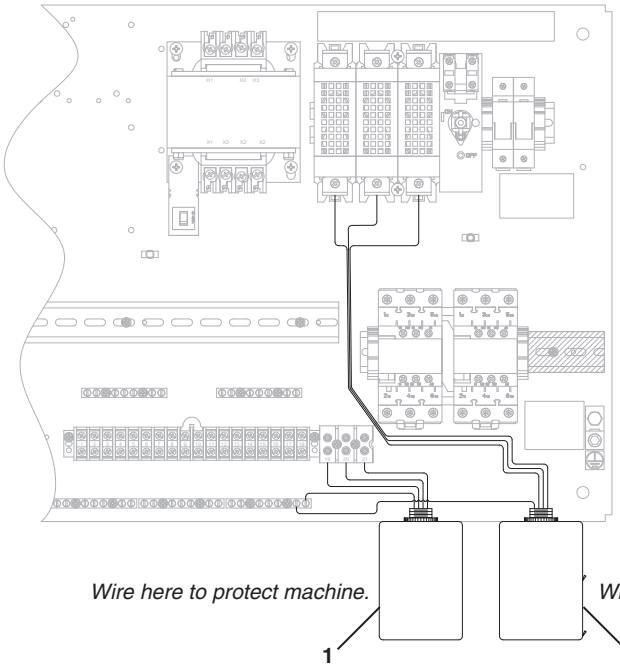


ITEM	DESCRIPTION	PART #
1	1/4" Lock Nut	0133008
2	1/4" x 3/4" Cap Screw	0161057
3	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
4	Tyton Ty Wrap - Black (not shown)	0314225
5	Ground Lug - 7 Terminal	0315120
6	Power Disconnect - 6 Pole	0315746
7	1" Hole Seal	03E0175
8	Compact Overload Relay - 3 Pole	03E1421
9	Terminal Block	03E1899
10	Snap Button Hole Plug	03E2166
11	Gasket Kit	0992071
12	Decal - Tower Box Disconnect	0992090
13	Decal - Ground	0992925
14	Decal - 3R Enclosure	0996403
15	Decal - UL Power Supply - 5 HP 10 Amps	0997252
16	Decal - Terminal Block Torque Copper Wire	0998450
17	Tower Box Mounting Plate	1702054
18	Tower Box Mounting Plate	1702364
19	Booster Transformer Plate	1703644
20	Tower Box Cover - UL	9311146

Overload Tower Box - Articulating 4-Wheel Drive ... 1814490

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480 Volt - 3 Phase Wiring

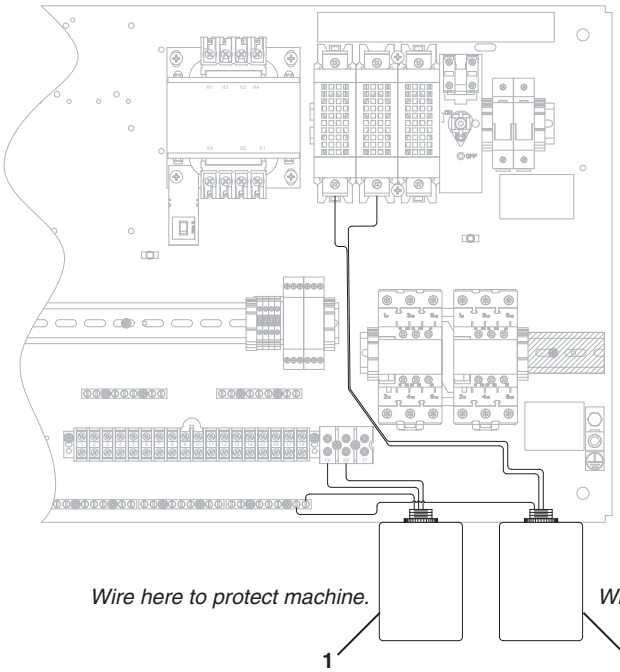


NOTE: Can be used in Classic, Classic+ and ICON Panels. (480VAC panels ONLY)

ITEM	DESCRIPTION	PART #
1	Lightning Arrestor - 600VAC-3 Pole.....	0315130

NOTE: 2 Arrestors needed to protect both options.

240 Volt - Single Phase Wiring



ITEM	DESCRIPTION	PART #
1	Lightning Arrestor - 240VAC-2 Pole.....	0315605

NOTE: 2 Arrestors needed to protect both options.

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ELECTRICAL

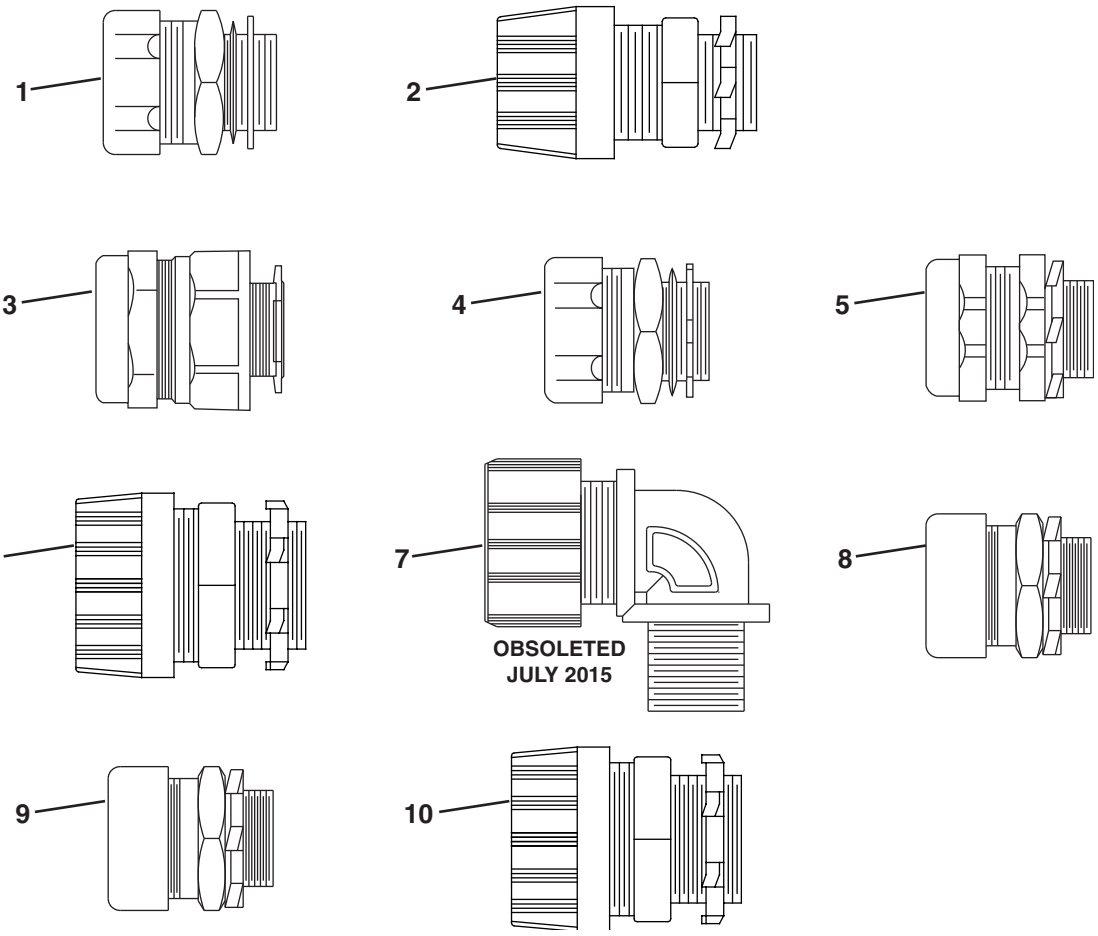
Rainger Linear - Effective 6/06

Description	Rev. #	Pg. #
Cable Connectors	09-15	17-3
Electrical Cable	06-15	17-4
Electrical Cable - Unshielded	09-10	17-5
Fuses	09-17	17-6
Cable Clamps	06-06	17-7
Grounding Jumper Wire Installation	06-06	17-8
Switch & Arm Assembly	09-10	17-9
Enclosures - Standard	12-14	17-10
Enclosures - Deep Panel	05-17	17-11
Enclosures - Extended Panel	05-17	17-12
30 Amp Back Panel	12-14	17-13
30 Amp Back Panel - Deep Panel	10-14	17-14
30 Amp Back Panel - Extended Panel	10-14	17-15
30 Amp Back Panel - Swing Around	12-14	17-16
Swing Around Back Panel - Extended Panel	11-13	17-17
45 Amp Back Panel	10-18	17-18
45 Amp Back Panel - Deep Panel	10-14	17-19
45 Amp Back Panel - Extended Panel	10-14	17-20
ClassicPlus Module	12-14	17-21
ClassicPlus Module - Deep Panel	05-15	17-22
ClassicPlus Module - Extended Panel	05-15	17-23
ClassicPlus A.R.A.S. Module	09-17	17-24
ClassicPlus A.R.A.S. Module - Deep Panel	09-17	17-25
ClassicPlus A.R.A.S. Module - Extended Panel	09-17	17-26
ClassicPlus Auxiliary Control - Deep Panel	05-17	17-27
ClassicPlus Auxiliary Control - Extended Panel	05-17	17-28
Select Module - PRIOR to July 08	02-13	17-29
Pro 2 Module - PRIOR TO May 07	02-15	17-30
AutoPilot Module - EFF. June 07	02-15	17-31
AutoPilot Module - Deep Panel	02-15	17-32
AutoPilot Module - Extended Panel	05-17	17-33
AutoPilot Auxiliary Control - Deep Panel	11-13	17-34
AutoPilot Auxiliary Control - Extended Panel	11-13	17-35
Low Voltage & Adjustable Voltage Monitor - Deep & Extended Panel	03-17	17-36
Low Pressure Shutoff	11-13	17-37
Phase Loss w/ Ground Fault	05-17	17-38
End Gun Switch Options - Deep & Extended Panel	07-17	17-39
Centerfeed Tower Box	12-17	17-40
Intermediate Tower Box	10-18	17-41
Last Tower Box	10-18	17-42
Slowdown Timer Box	12-17	17-43
Central Pulse Tower Box	10-18	17-44

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Description	Rev. #	Pg. #
Booster Pump Box	10-18	17-45
Steering/Safety Box	12-17	17-46
Furrow Guidance Tower Box	12-17	17-47
Furrow Guidance Swing Around Tower Box	12-17	17-48
Booster Transformer Tower Box	05-15	17-49
Booster Transformer 45 Amp Package	06-15	17-50
Swing-Around Proximity Controls	10-09	17-51
Side Load Safety Sensor Box	12-17	17-52
Ground Fault	05-17	17-53

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ITEM	DESCRIPTION	PART #
1	**1/2" Hub .17" - .47" O.D. Wire Range**	**03E2132**
	Proximity Switch Cable, Pressure Transducer	
2	**1/2" Hub .500" - .562" O.D. Wire Range**	**0314119**
	14 AWG - 4 and 5 Conductor	
3	**3/4" Hub .625" - .750" O.D. Wire Range**	**0314465**
	12 AWG - 11 and 12 Conductor	
4	**3/4" Hub .700" - .800" O.D. Wire Range**	**0315311**
	12 AWG or 10 AWG - 11 and 12 Conductor	
5	**3/4" Hub .900" - .1.00" O.D. Wire Range**	**0315674**
	8 AWG - 11 and 12 Conductor	
	8 AWG or 10 AWG - 16 Conductor	
6	**1" Hub .687" - .812" O.D. Wire Range**	**0314466**
	12 AWG, 10 AWG or 8 AWG - 11, 12 and 16 Conductor - Yellow Grommet	
7	**1" Hub 90° .75" - .875" O.D. Wire Range - OBSOLETED JULY 2015**	**03E1897**
	12 AWG or 10 AWG - 11 and 12 Conductor	
8	**3/4" Hub Straight Flex Conduit Connector**	**0314121**
	3/4" Sealtite Raceway	
9	**1/2" Hub Straight Flex Conduit Connector**	**0314120**
	1/2" Sealtite Raceway	
10	**1" Hub .812" - .937" O.D. Wire Range**	**0314467**
	10 AWG or 8 AWG - 11, 12 and 16 Conductor - Gray Grommet	

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UNDERGROUND GUIDANCE			
Length		Part #	
Meters	Feet	Unshielded	Shielded
2804.17m	9,200'	0314730	0314964
3352.81m	11,000'	0314742	0314966
3962.41m	13,000'	0314786	0314968

UNDERGROUND GUIDANCE TWISTED PAIR			
Length		Part #	
Meters	Feet	Unshielded	Shielded
396.24m	1,300'	0314734	0314965
472.44m	1,550'	0314743	0314967
609.60m	2,000'	0314785	0314969

MISCELLANEOUS CABLE					
Description	Length		Gauge	Cond.	Part #
Drive Unit Motor Lead	5.61m	18'-5"	14	4	1810387
Box to Motor - Low Profile	4.72m	15'-6"	14	4	1812444
Box to Motor - High Profile	7.92m	26'-0"	14	4	1812547
Running Light	6.10m	20'-0"	14	4	1810286
Bulk 4 Wire	3048.00m	10,000'-0"	14	4	0314571
Bulk 11 Wire	1828.80m	6000'-0"	12,14	11	03E1717
Bulk 11 Wire	1524.00m	5000'-0"	10,14	11	0314328
Bulk 11 Wire	1219.20m	4000'-0"	8,14	11	0314569
Bulk 12 Wire	1524.00m	5000'-0"	12,14	12	03E1718
Bulk 12 Wire	1524.00m	5000'-0"	10,14	12	0314838
Bulk 12 Wire	1219.20m	4000'-0"	8,14	12	03E0315

ADD SPAN CABLE

Span Length		Cable Length		03E1717 12 Gauge	0314328 10 Gauge	0314569 8 Gauge	03E1718 12 Gauge	0314838 10 Gauge	03E0315 8 Gauge
Feet	Meters	Feet	Meters	11 Cond.	11 Cond.	11 Cond.	12 Cond.	12 Cond.	12 Cond.
109.7'	33.44	116'-0"	35.36	9310176	1812432	1812433	9310195	9310068	9310066
115.1'	35.08	122'-0"	37.19	9310183	9310140	9310139	9310198	9310142	9310141
127.8'	38.95	135'-0"	41.15	9310177	1812434	1812435	9310187	1813035	1813041
135.2'	41.21	142'-0"	43.28	9310181	9310025	9310061	9310194	9310067	9310063
140.0'	42.67	147'-0"	44.81	9310184	9310144	9310143	9310199	9310146	9310145
142.3'	43.37	149'-0"	45.42	9310438	9310439	9310446	9310440	9310441	9310447
157.5'/160.0'/161.2'	48.01/48.77/49.23	167'-0"	50.90	9310174	1811452	1811453	9310189	1813037	1813043
180.0'	54.86	186'-9"	56.92	9310178	1813007	1813068	9310191	1813066	1813064
184.8'	56.33	192'-0"	58.52	9310170	1810324	1810328	9310196	9310069	9310064
186.7'	56.91	193'-9"	59.06	9310179	1813008	1813069	9310192	1813067	1813065
198.9'	60.62	208'-0"	63.40	9310175	1812003	1812021	9310190	1813040	1813046
205.0'	62.48	212'-0"	64.62	9310182	9310071	9310062	9310197	9310070	9310065

CART SPAN CABLE

Span Length		Cable Length		03E1717 12 Gauge	0314328 10 Gauge	0314569 8 Gauge	03E1718 12 Gauge	0314838 10 Gauge	03E0315 8 Gauge
Feet	Meters	Feet	Meters	11 Cond.	11 Cond.	11 Cond.	12 Cond.	12 Cond.	12 Cond.
109.7'	33.44	142'-0"	43.28	9310181	9310025	9310061	9310194	9310067	9310063
115.1'	35.08	142'-0"	43.28	9310181	9310025	9310061	9310194	9310067	9310063
127.8'	38.95	167'-0"	50.90	9310174	1811452	1811453	9310189	1813037	1813043
135.2'	41.21	167'-0"	50.90	9310174	1811452	1811453	9310189	1813037	1813043
140.0'	42.67	167'-0"	50.90	9310174	1811452	1811453	9310189	1813037	1813043
142.3'	43.37	175'-0"	53.34	9310171	1810325	1810327	9310191	1813066	1813064
157.5'/160.0'/161.2'	48.01/48.77/49.23	186'-9"	56.92	9310178	1813007	1813068	9310191	1813066	1813064
180.0'	54.86	208'-0"	63.40	9310175	1812003	1812021	9310190	1813040	1813046
184.8'	56.33	212'-0"	64.62	9310182	9310071	9310062	9310197	9310070	9310065
186.7'	56.91	220'-0"	67.06	9310172	1810482	9310149	9310200	9310159	9310158
198.9'	60.62	225'-0"	68.58	9310185	1811364	9310149	9310200	1813104	9310158
205.0'	62.48	232'-0"	70.71	9311275	1811364	9310150	9311277	1813104	9310157

FREESTANDING SPAN CABLE

Span Length		Cable Length		03E1717 12 Gauge	0314328 10 Gauge	0314569 8 Gauge	03E1718 12 Gauge	0314838 10 Gauge	03E0315 8 Gauge
Feet	Meters	Feet	Meters	11 Cond.	11 Cond.	11 Cond.	12 Cond.	12 Cond.	12 Cond.
109.7'	33.44	132'-3"	40.31	9310169	1810208	1810275	9310187	1813035	1813041
115.1'	35.08	152'-6"	46.48	9310173	1811074	1811092	9310188	1813036	1813042
127.8'	38.95	152'-6"	46.48	9310173	1811074	1811092	9310188	1813036	1813042
135.2'	41.21	175'-0"	53.34	9310171	1810325	1810327	9310191	1813066	1813064
140.0'	42.67	186'-9"	56.92	9310178	1813007	1813068	9310191	1813066	1813064
142.3'	43.37	186'-9"	56.92	9310178	1813007	1813068	9310191	1813066	1813064
157.5'/160.0'/161.2'	48.01/48.77/49.23	208'-0"	63.40	9310175	1812003	1812021	9310190	1813040	1813046
180.0'	54.86	220'-0"	67.06	9310172	1810482	9310149	9310200	9310159	9310158
184.8'	56.33	225'-0"	68.58	9310185	9310148	9310149	9310200	9310159	9310158
186.7'	56.91	225'-0"	68.58	9310185	9310148	9310149	9310200	9310159	9310158
198.9'	60.62	239'-0"	72.85	9311290	1811364	9310150	9311291	1813104	9310157
205.0'	62.48	242'-0"	73.76	9311276	1811364	9310150	9311278	1813104	9310157

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SPAN CABLE - UNSHIELDED					
Span Length		Cable Length		03E2086 12 Gauge	03E2085 10 Gauge
Feet	Meters	Feet	Meters	11 Cond.	11 Cond.
109.7	33.44	116'-0"	35.36	9311064	9311075
115.1	35.08	122'-0"	37.19	9311071	9311082
120.1		127'-0"		9311068	9311079
127.8	38.95	135'-0"	41.15	9311065	9311076
135.2	41.21	142'-0"	43.28	9311069	9311080
140.0	42.67	147'-0"	44.81	9311072	9311083
142.3	43.37	149'-0"	45.42	9311050	9311056
157.5/160.0/161.2	48.01/48.77/49.23	167'-0"	50.90	9311051	9311057
180.0'	54.86	186'-9"	56.92	9311052	9311058
184.8'	56.33	192'-0"	58.52	9311062	9311073
186.7'	56.91	193'-9"	59.06	9311067	9311078
198.9'	60.62	208'-0"	63.40	9311053	9311059
205.0'	62.48	212'-0"	64.62	9311070	9311081

NOTE: For use outside the United States

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Control Panel Disconnect Fuses

Fuse Amperage	Red Disconnect (Deep) Part #		Yellow Disconnect (Old) (Service Part ONLY) Part #
6 Amp	03E3456		0314591
8 Amp	0314342		0314342
12 Amp	03E3457		0314343
15 Amp	03E3458		0314344
17.5 Amp	03E3459		0314345
20 Amp	03E3460		0314167
25 Amp	03E3461		0314346
30 Amp	03E3462		0315411
35 Amp	03E3588		-
40 Amp	03E3589		-
45 Amp	03E3463		0315459
Shorting Bar	30 Amp Panel 03E3641	45 Amp Panel 03E3642	0314885

30A, 600V, 3 Pole Fuseblock 03E1735

Amperage	Voltage	Fuse	Part#
3A	600V	Class CC	03E1616
4A	600V	Dual Element	03E0389
8A	600V	Class CC	03E1620
15A	500V	Dual Element	0315983
20A	600V	Class CC	03E1726
30A	600V	Class CC	03E1672
30A	600V	Dual Element	03E1738

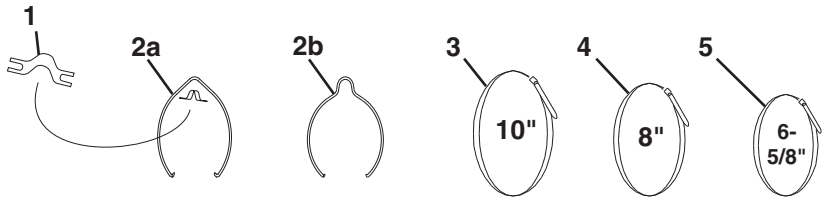
30 A, 600V, 3 Pole Class CC Fuseblock . 03E1735

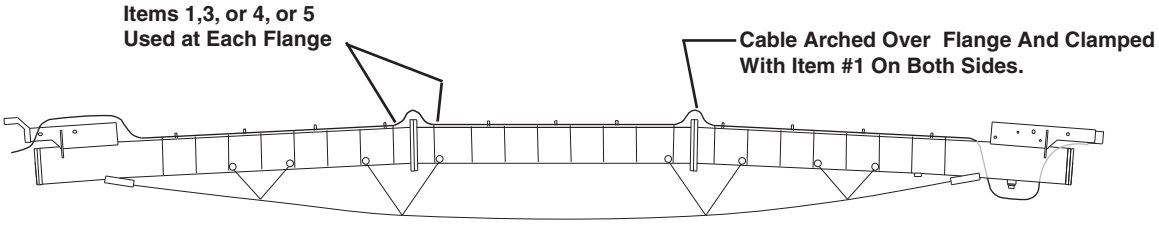
Amperage	Voltage	Fuse	Part#
4A	600V	Dual Element	03E0389
5A	600V	Class CC	03E1678
8A	600V	Class CC	03E1620
20A	600V	Class CC	03E1726
30A	600V	Dual Element	03E1738

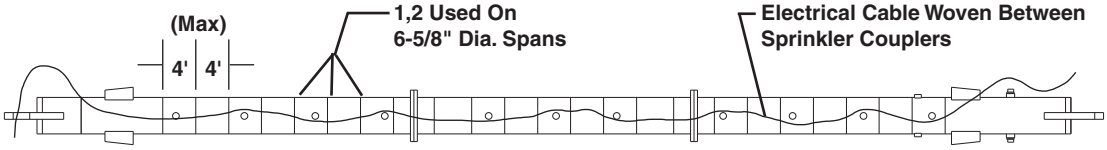
Booster Pump Box Fuse

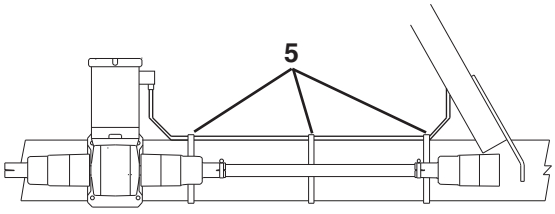
Amperage	Voltage	Fuse	Part#
5.6A	600V	Class CC	03E1734
15A	600V	Dual Element	03E1740

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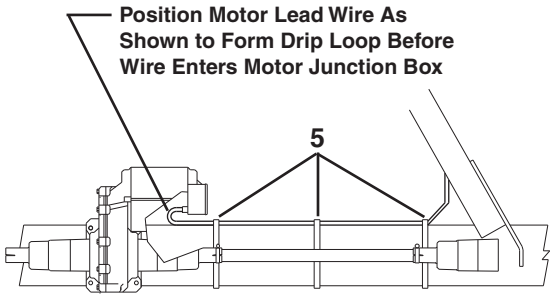








Power Cable Routing at Base Beam
For Worm Gear Center Drive Motor

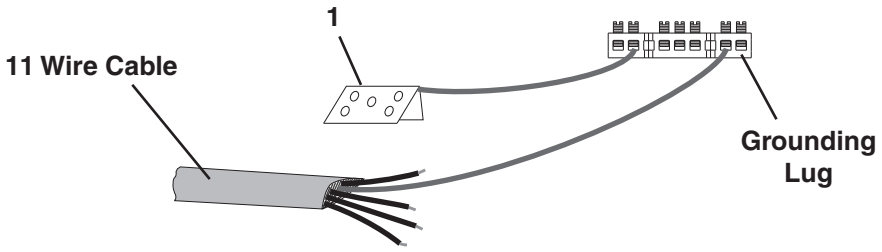


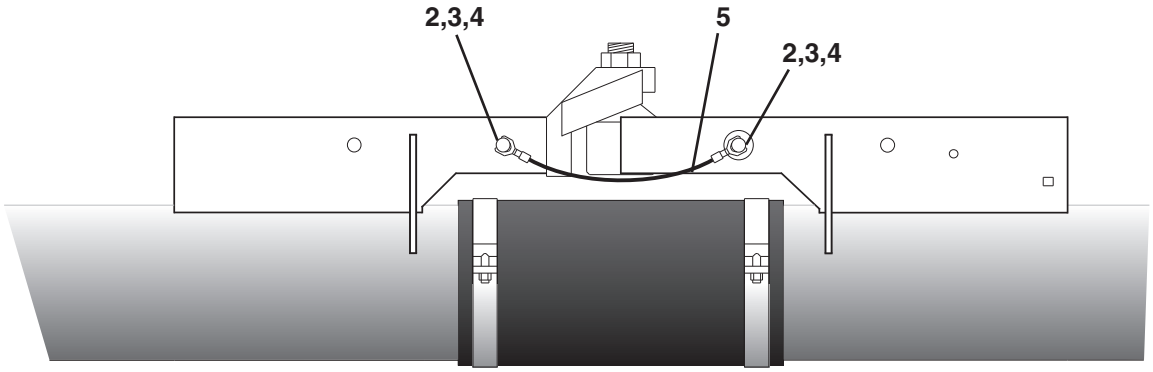
Power Cable Routing at Base Beam
For Worm Gear Center Drive Motor

ITEM	DESCRIPTION	PART #
1	**Hose Clamp Clip**	**1750318**
	Used With Cable Clamp	
2a	**Cable Clamp**	**0271040**
	Used with Clamp Clip (1750318)	
2b	**Cable Clamp**	**0271116 ***
	Does not use Clamp Clip	
3	**10" Dia. Cable Banding Clamp (42" Long)**	**0271051**
	10" System All Positions on Span	
4	**8" Dia. Cable Banding Clamp (30" Long)**	**0271024**
	8-5/8" System All Positions on Span	
5	**6-5/8" Dia. Cable Banding Clamp (24" Long)**	**0271021**
	6-5/8" System at Flanges All Overhangs-Motor Lead on Base Beam	

*** NOTE: Not used on Precision Corner or where multiple Span Cable is required.**

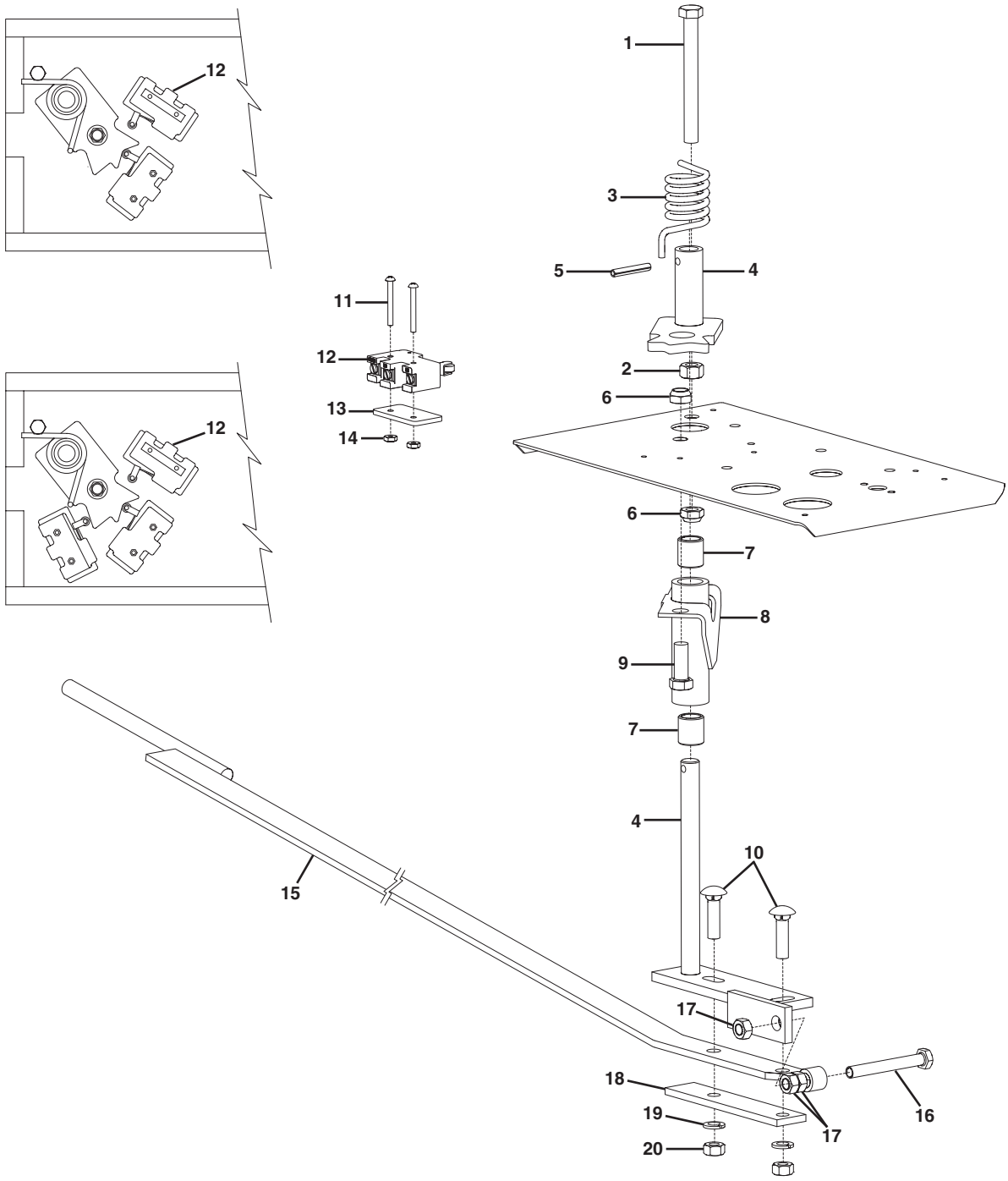
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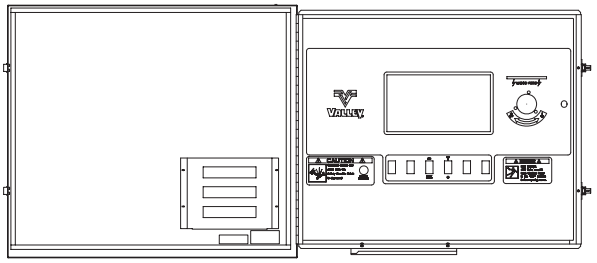
ITEM	DESCRIPTION	PART #
1	Grounding Lead With Clamp	1814000
2	1/2" x 4" Cap Screw	0161020
3	1/2" Flat Washer	0142025
4	1/2" Hex Nut	0131015
5	Standard Electrical Lead	1811101
	Corner Electrical Lead (42")	1811173

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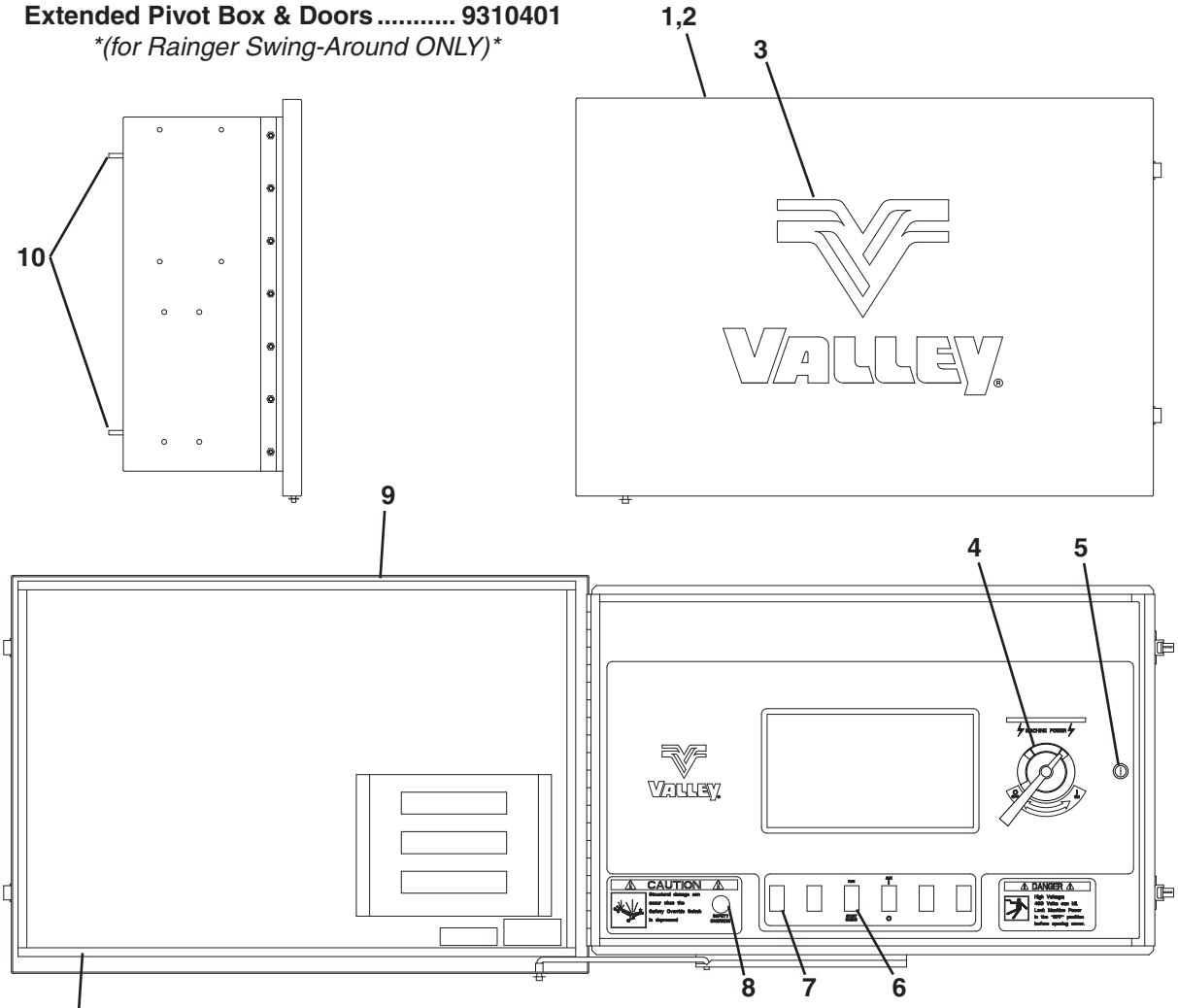


ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	3/8" x 3-1/2" Cap Screw	0161150	12	Micro Switch	03E0307
2	3/8" Hex Nut	0131018	13	Insulator Block	1701632
3	Spring	0181046	14	#6 Nut	0134027
4	Switch Pivot and Arm	1701262	15	Control Bar	1701295
5	3/16" x 1-1/4" Roll Pin	0111017	16	5/16" x 2-1/2" Cap Screw	0163046
6	3/8" Lock Nut	0133006	17	5/16" - 18 NC Hex Nut	0131079
7	Trip Bushing, Plastic	1915198	18	Lower Keeper Plate	1700156
8	Sensor Bearing Assembly	1702051	19	5/16" Lock Washer	0141008
9	3/8" x 1" Cap Screw	0161045	20	5/16" Hex Nut	0131019
10	5/16" x 1-1/4" Carriage Bolt	0175013			
11	#6 x 1-14" Rt. Hand Machine Screw	0164054		Sensor Bearing w/Bushings (incl. items 7 & 8)	1703336

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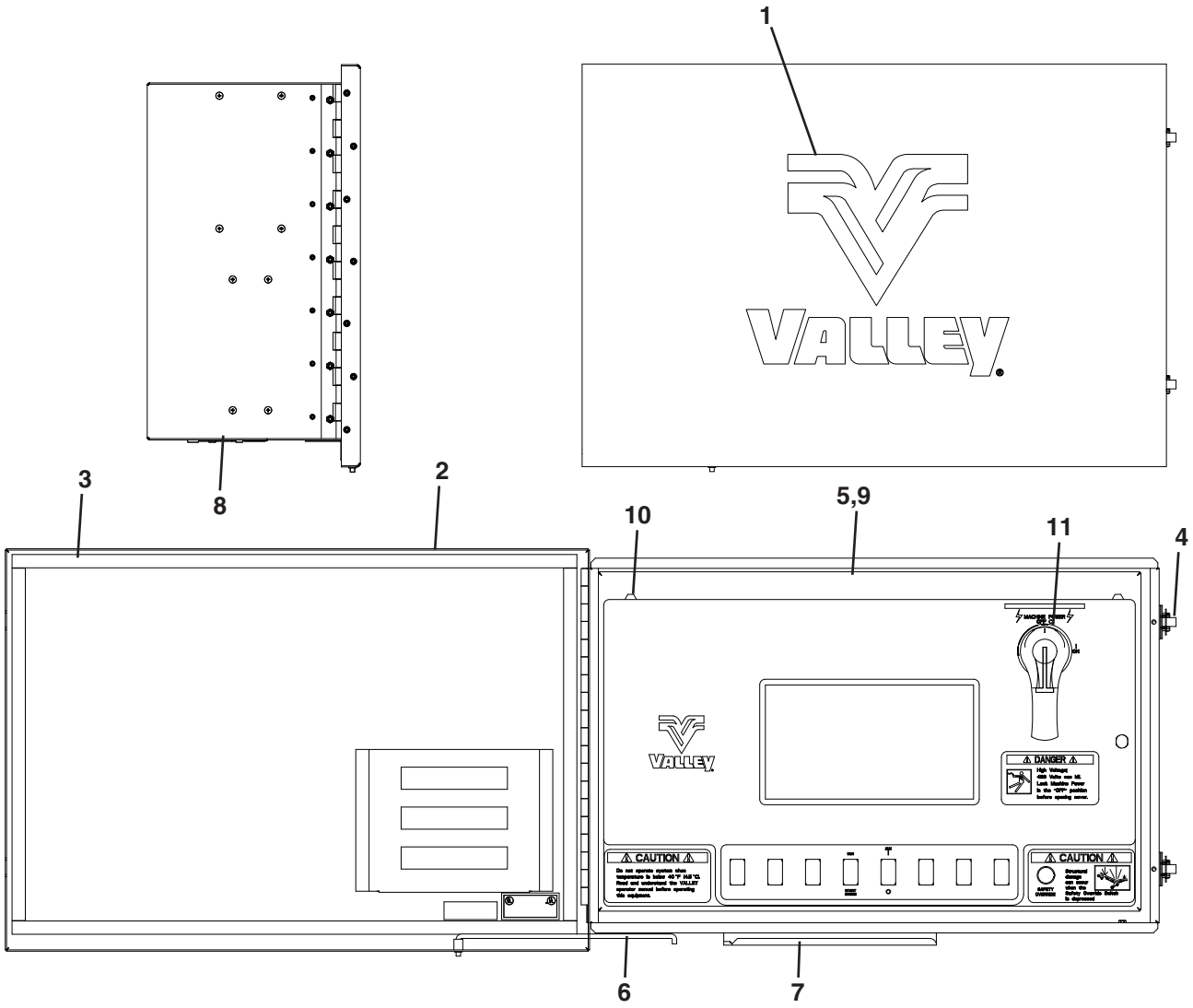
Extended Pivot Box & Doors 9310401
(for Rainger Swing-Around ONLY)



ITEM	DESCRIPTION	PART #
1	Blue Enclosure Box & Doors	OBSOLETED
	Blue Enclosure Box & Doors - Extended	OBSOLETED *
2	Stainless Steel Enclosure	OBSOLETED
3	Outer Door Decal	0994450
4	Disconnect Handle with Operating Shaft	0314799
5	Cabinet Lock With Two Keys	0991370
6	Rocker Switch 6 Tab DPDT 15 Amp	03E1722
7	Dummy Rocker Switch Mount	03E1719
8	Push Button Switch DPDT	03E2224
	Contact Block Only (Service Part)	03E2222
9	Outer Door with Hinge & Decal	9310164
10	3/8"-16 x 2" Stainless Steel Thrd. (Box Mounting)	0994523
11	Standard Enclosure Door Gasket Kit	0999316

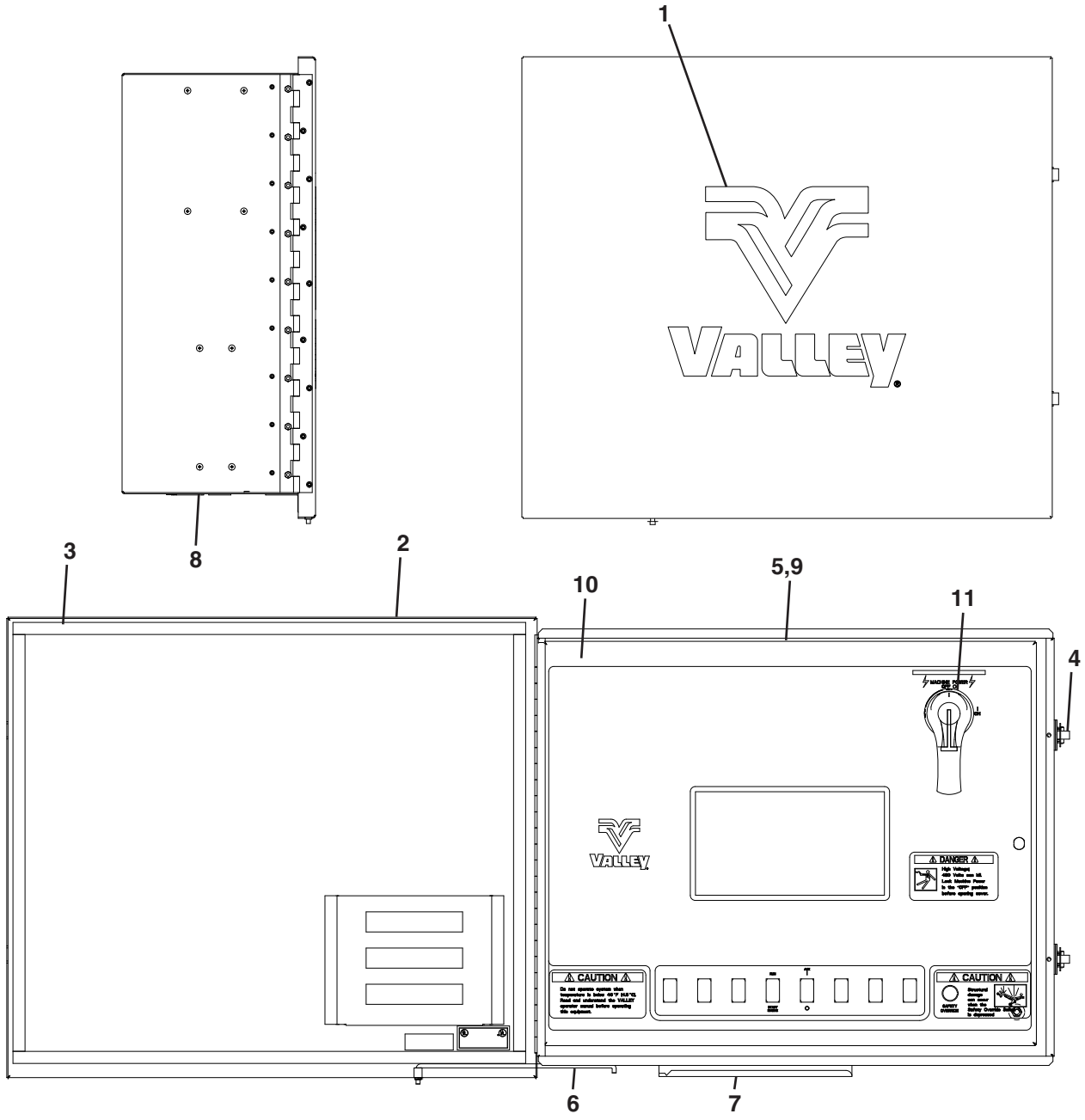
***NOTE: For Rainger Swing-Around ONLY**

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ITEM	DESCRIPTION	PART #
1	Outer Door Decal	0994450
2	Outer Door & Hinge Assm.	9310013
3	Standard Enclosure Door Gasket Kit	0999316
4	Latch & Keeper Plate	0994441
5	Inner Door Stop	0996491
6	Door Stop Rod	9310019
7	Door Stop Channel - S.S.	9310086
8	Box & Door Rest Assm.	9312002
9	Inner Door Assm. - OBSOLETED Apr 2017	9312023
10	3/8" x 1/2" Cap Screw	0164208
11	Disconnect Handle	03E3449
	Standard Enclosure Assm. - OBSOLETED Apr 2017	9312003
	Standard Enclosure Assm. - S.S. - OBSOLETED Apr 2017	9312093

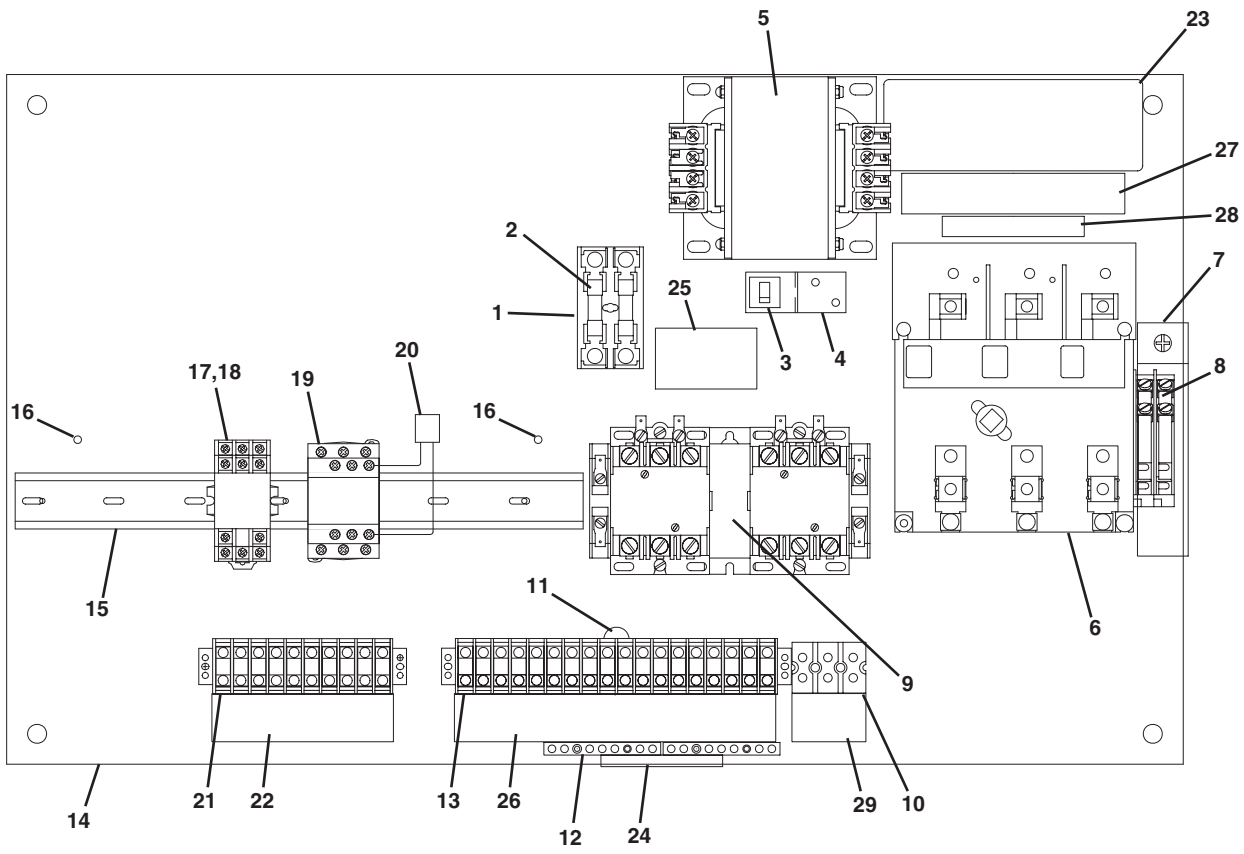
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ITEM	DESCRIPTION	PART #
1	Outer Door Decal	0994450
2	Outer Door & Hinge Assm.	9310406
	Outer Door & Hinge Assm. - Stainless Steel	9310421
3	Extended Enclosure Door Gasket Kit	0999317
4	Latch & Keeper Plate	0994441
5	Inner Door Stop	0996491
6	Door Stop Rod	9310019
	Door Stop Rod - Stainless Steel	9312053
7	Door Stop Channel - Stainless Steel	9310086

ITEM	DESCRIPTION	PART #
8	Box & Door Rest Assm.	9312005
	Box & Door Rest Assm. - Stainless Steel	9312098
9	Inner Door Assm. - OBSOLETED Apr 2017	9312047
	Inner Door Assm. - S.S. - OBSOLETED Apr 2017	9312096
10	3/8" x 1/2" Cap Screw	0164208
11	Disconnect Handle	03E3449
	Extended Enclosure Assm.	9312006
	Extended Encl. Assm. - S.S. - OBSOLETED Apr 17	9312100

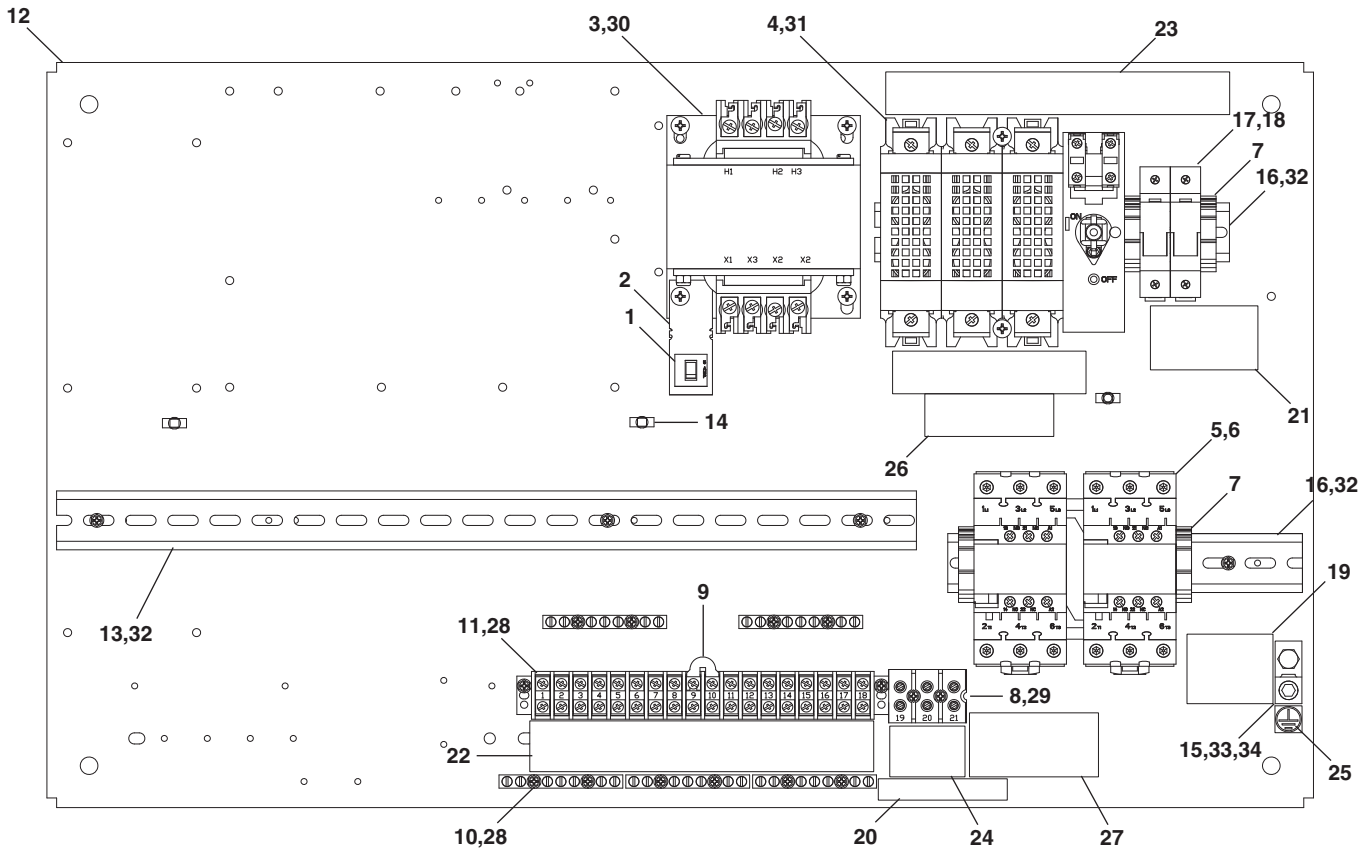
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ITEM	DESCRIPTION	PART #
1	Fuse Block	03E1617
2	5 Amp Fuse	03E1678
3	Circuit Protector Reset Switch	03E1590
4	Reset Switch Bracket	OBSOLETED
5	Transformer	03E1540
6	Disconnect Switch Kit	OBSOLETED
7	Pump Safety Shield	OBSOLETED
8	Auxiliary Interlock	0314747
9	Reversing Contactor - 3 Phase 20HP 120V Coil	03E2777
10	Terminal Strip	0315121
11	Terminal Block Jumper	03E1644
12	Ground Lug	0315120
13	Terminal Strip	03E1561
14	Back Panel-Control Box	OBSOLETED
15	Din Rail	9311015
16	Wire Tie Holder	0994494
17	Rail Mount Socket	03E1650 *

ITEM	DESCRIPTION	PART #
18	Relay - 120 VAC	0314936 *
19	Contactor - 12A 3 Pole	03E2325 *
20	Suppressor - UL	03E2232 *
21	Terminal Strip - 10 Pos.	03E1649 *
22	Decal - Terminal Block - 10 Pos	OBSOLETED
23	Decal - Danger, Safety LIne Shield	0315928
24	Decal - Ground	0992925
25	Decal - Fuse Holder	0994455
26	Decal - Terminal Strip I.D.	0994458
27	Decal - Main Disconnect Fuse - 30 Amp	OBSOLETED
28	Decal - Copper Wire Only	0994836
29	Decal - 3 Position Terminal Strip	0995244
	30 Amp Back Panel Assembly	OBSOLETED
	* These items located in 30A Linear Install. Kit	OBSOLETED

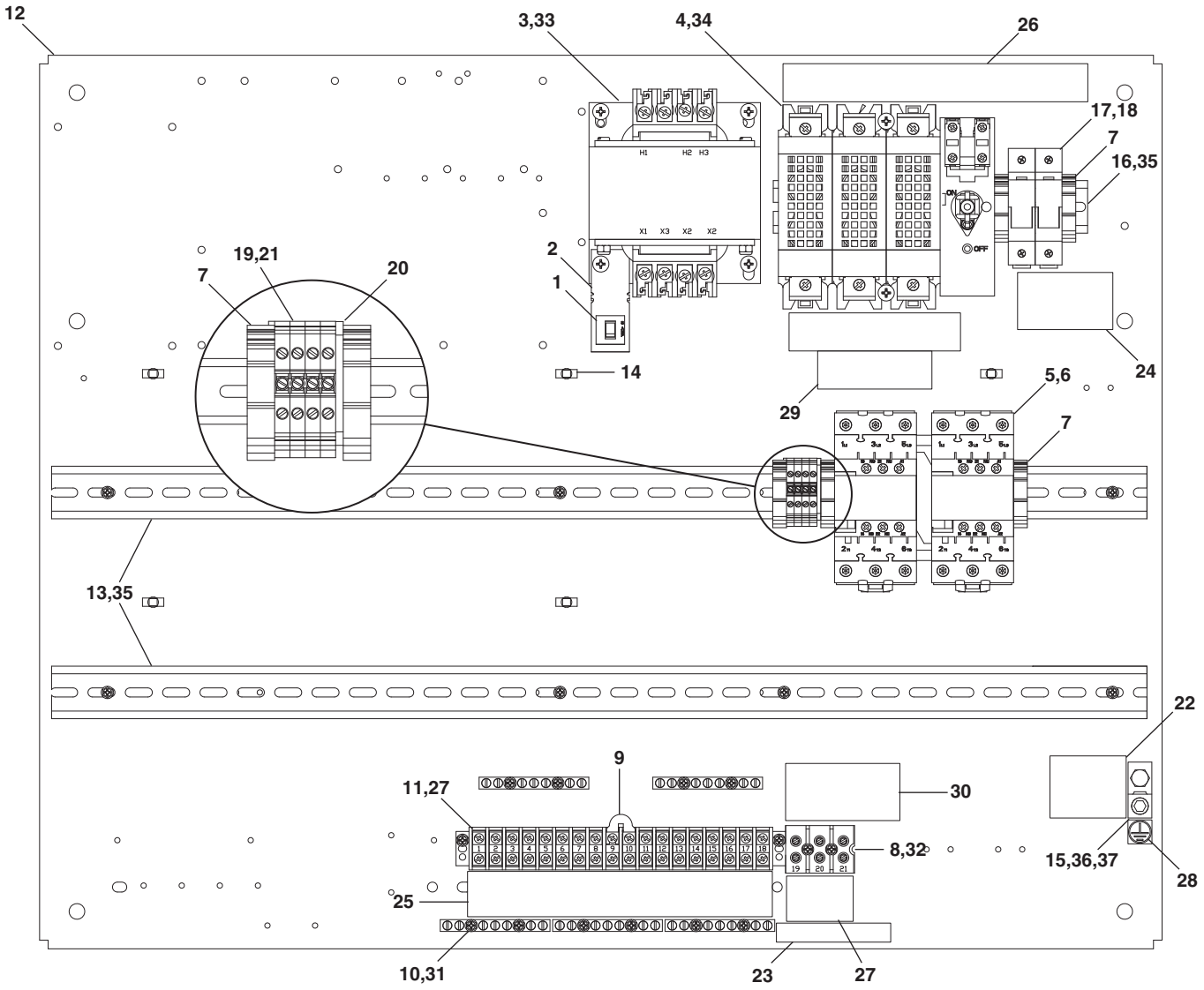
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ITEM	DESCRIPTION	PART #
1	Circuit Protector Reset Switch	03E1590
2	Reset Switch Bracket	9312044
3	Transformer	03E1540
4	Disconnect Switch Kit - 30 Amp	03E3450
5	Reversing Contactor - 40 Amp 120V Coil	03E3444
6	Suppressor	03E3464
7	Din Rail End Stop	03E2996
8	Terminal Strip	0315121
9	Terminal Block Jumper	03E1644
10	Ground Lug	0315120
11	Terminal Strip	03E1561
12	Back Panel	9312019
13	Din Rail - 20" Long	9312031
14	Wire Tie Holder	0994494
15	Ground Lug	03E3455
16	Din Rail - 8.25" Long	9312032
17	Fuseblock	03E3442
18	Fuse - 5 Amp, 600 V	03E1678

ITEM	DESCRIPTION	PART #
19	Decal - Grond Lug Torque	0998563
20	Decal - Ground	0992925
21	Decal - Fuse Holder	0994455
22	Decal - Terminal Strip I.D.	0994458
23	Decal - Danger - Main Power	0998440
24	Decal - 3 Position Terminal Strip	0995244
25	Decal - Ground Symbol	0998562
26	Decal - Main Disconnect Torque	0998460
27	Decal - Terminal Block Torque	0998450
28	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
29	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
30	#12 x 1/2" Sheet Metal Screw	0164231
31	1/4" x 3/4" Self-Tapping Screw	0164240
32	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
33	1/4" x 1/2" Cap Screw	0161059
34	1/4" Lock Nut	0133008
	30 Amp Back Panel Assembly - Deep	9312029

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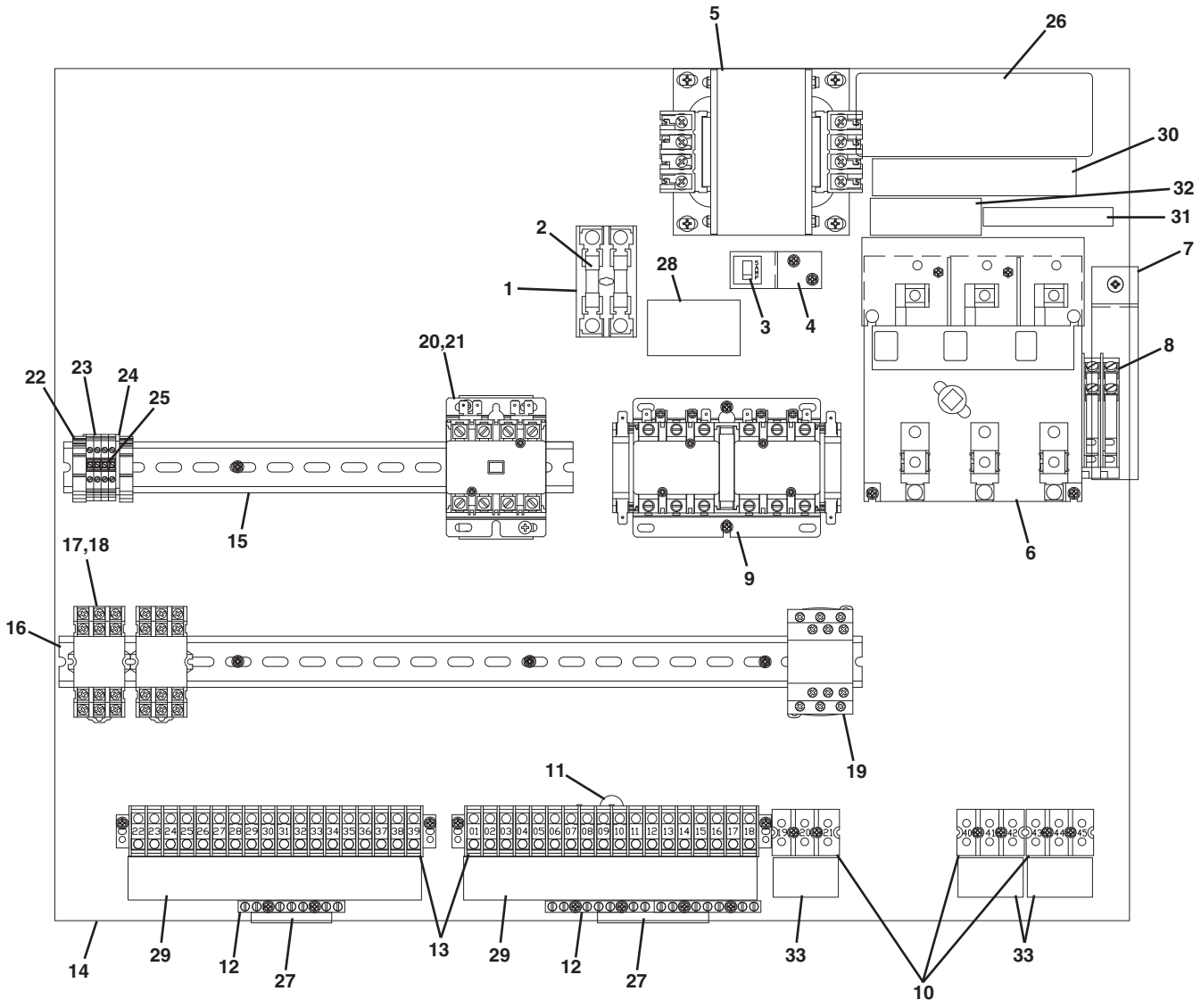


ITEM	DESCRIPTION	PART #
1	Circuit Protector Reset Switch	03E1590
2	Reset Switch Bracket	9312044
3	Transformer	03E1540
4	Disconnect Switch Kit - 30 Amp	03E3450
5	Reversing Contactor - 40 Amp 120V Coil	03E3444
6	Suppressor	03E3464
7	Din Rail End Stop	03E2996
8	Terminal Strip	0315121
9	Terminal Block Jumper	03E1644
10	Ground Lug	0315120
11	Terminal Strip	03E1561
12	Back Panel - Extended Encl.	9312049
13	Din Rail - 28.75" Long	9312052
14	Wire Tie Holder	0994494
15	Ground Lug	03E3455
16	Din Rail - 8.25" Long	9312032
17	Fuseblock	03E3442
18	Fuse - 5 Amp, 600 V	03E1678
19	Din Rail Terminal Block	03E2994
20	Din Rail Terminal Block End Cover	03E2995

ITEM	DESCRIPTION	PART #
21	Terminal Jumper - 4 Pole	03E2999
22	Decal - Grond Lug Torque	0998563
23	Decal - Ground	0992925
24	Decal - Fuse Holder	0994455
25	Decal - Terminal Strip I.D.	0994458
26	Decal - Danger - Main Power	0998440
27	Decal - 3 Position Terminal Strip	0995244
28	Decal - Ground Symbol	0998562
29	Decal - Main Disconnect Torque	0998460
30	Decal - Terminal Block Torque	0998450
31	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
32	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
33	#12 x 1/2" Sheet Metal Screw	0164231
34	1/4" x 3/4" Self-Tapping Screw	0164240
35	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
36	1/4" x 1/2" Cap Screw	0161059
37	1/4" Lock Nut	0133008
	30 Amp Back Panel Assembly - Extended	9312050

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Functional Area	Assembly / Part	Rev# 12-14
Electrical	30 Amp Back Panel - Swing Around	



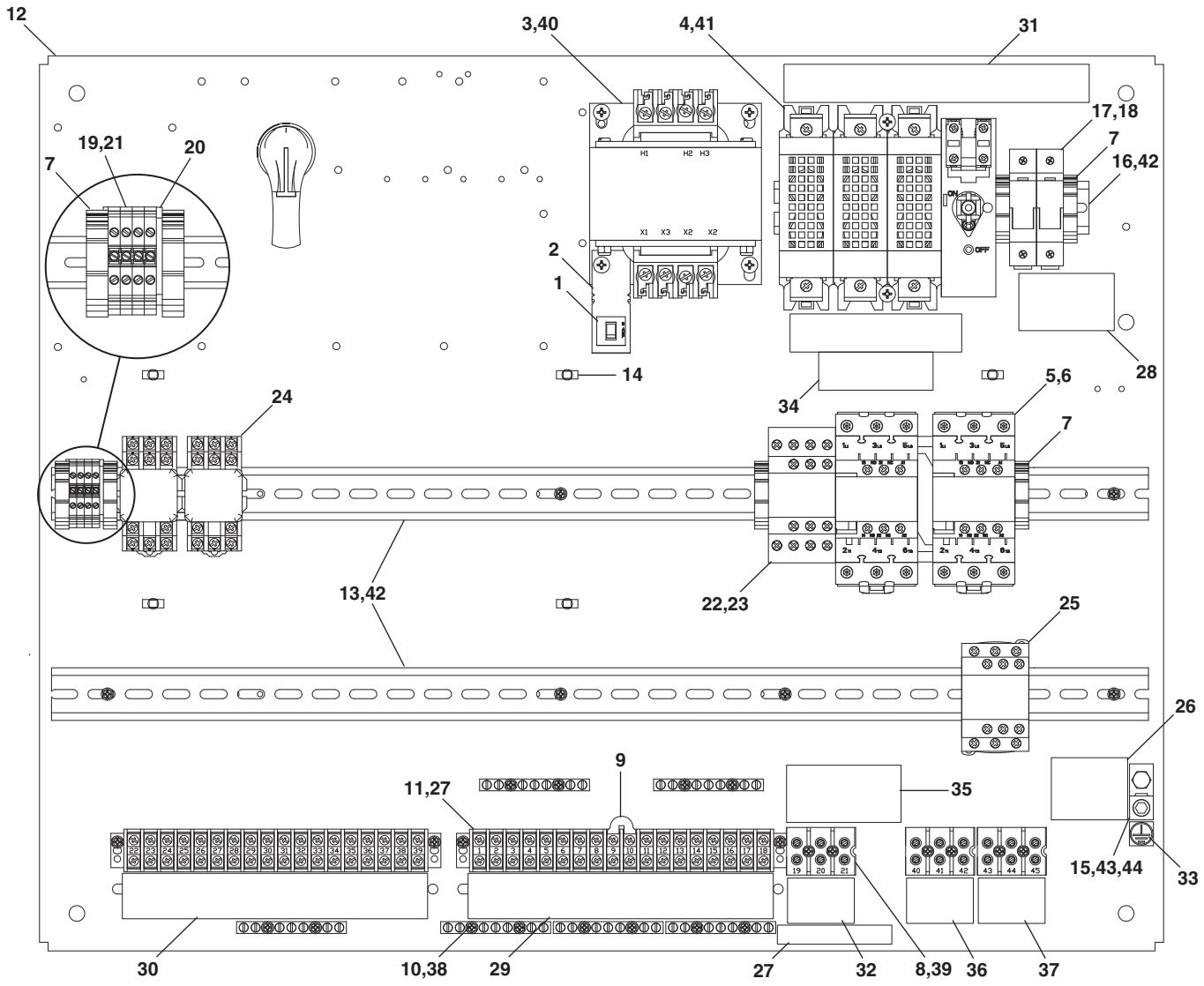
ITEM	DESCRIPTION	PART #
1	Fuse Block	03E1617
2	5 Amp Fuse	03E1678
3	Circuit Protector Reset Switch	03E1590
4	Reset Switch Bracket	OBSOLETED
5	Transformer	03E1540
6	Disconnect Switch Kit	0315917
7	Pump Safety Shield	OBSOLETED
8	Auxiliary Interlock	0314747
9	Reversing Contactor - 40A 3 Pole	03E2777
10	Terminal Strip - 10 Term	0315121
11	Terminal Block Jumper	03E1644
12	Ground Lug	0315120
13	Terminal Strip	03E1561
14	Back Panel - Extended Enclosure	OBSOLETED
15	Din Rail - 13.75" Long	9311015
16	Mounting Channel	9310338
17	Rail Mount Socket	03E1650
18	Relay - 120 VAC	0314936

ITEM	DESCRIPTION	PART #
19	Contactor - 12A 3 Pole	03E2325
20	Contactor - 30A 4 Pole	03E1861
21	Din Rail Adapter Bracket	03E1618
22	Din Rail End Stop	03E2996
23	Din Rail Terminal Block	03E2994
24	Din Rail Terminal End Cover	03E2995
25	Terminal Jumper - 4-Pole	03E2999
26	Decal - Danger, Safety LIne Shield	0315928
27	Decal - Ground	0992925
28	Decal - Fuse Holder	0994455
29	Decal - Terminal Strip I.D.	0994458
30	Decal - Main Disconnect Fuse - 30 Amp	0994835
31	Decal - Copper Wire Only	0994836
32	Decal - Terminal Torque	OBSOLETED
33	Decal - 3 Position Terminal Strip	0995244

30 Amp Back Panel Assm. - Swing Around ..... OBSOLETED

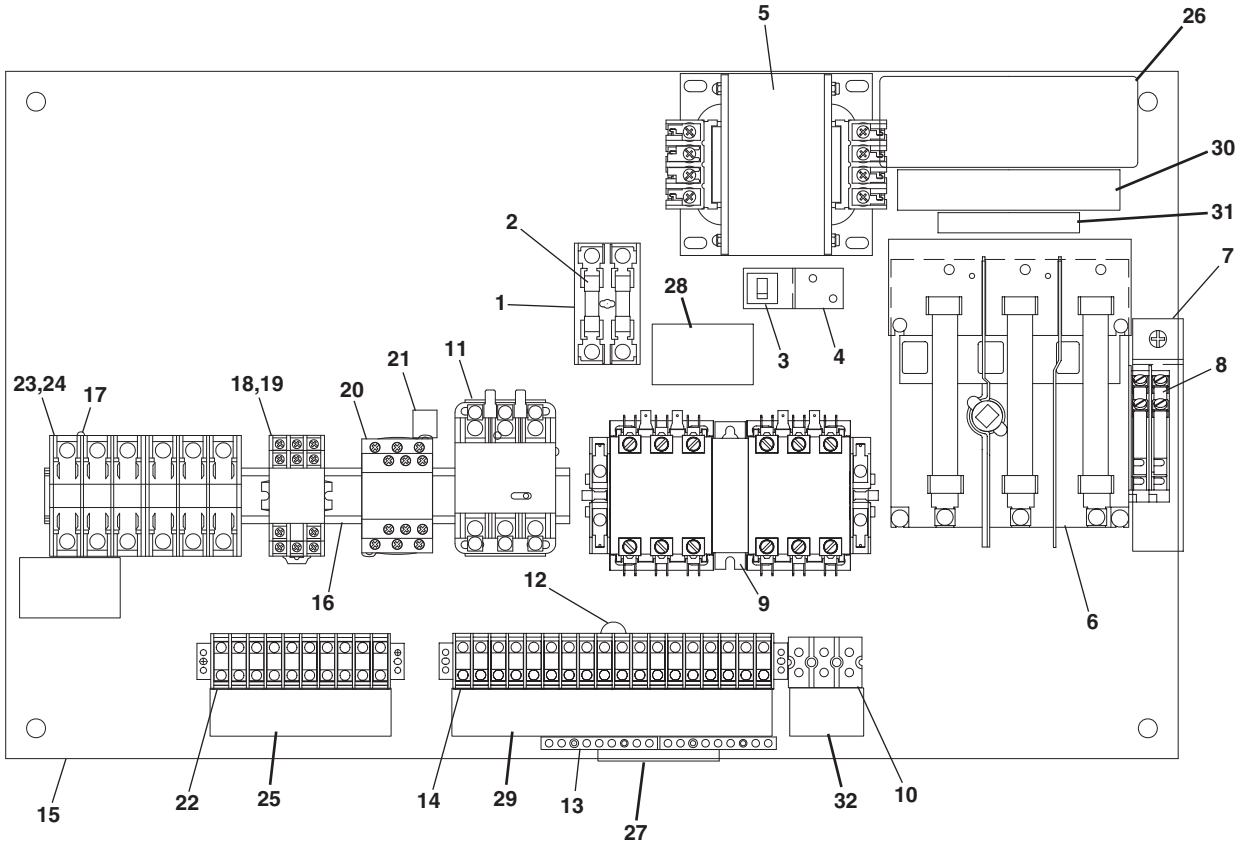
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Functional Area	Assembly / Part	Rev# 11-13
Electrical	Swing Around Back Panel - Extended Panel	



ITEM	DESCRIPTION	PART #
1	Circuit Protector Reset Switch	03E1590
2	Reset Switch Bracket	9312044
3	Transformer	03E1540
4	Disconnect Switch Kit - 30 Amp	03E3450
5	Reversing Contactor - 40 Amp 120V Coil	03E3444
6	Suppressor	03E3464
7	Din Rail End Stop	03E2996
8	Terminal Strip	0315121
9	Terminal Block Jumper	03E1644
10	Ground Lug	0315120
11	Terminal Strip	03E1561
12	Back Panel - Extended Encl.	9312049
13	Din Rail - 28.75" Long	9312052
14	Wire Tie Holder	0994494
15	Ground Lug	03E3455
16	Din Rail - 8.25" Long	9312032
17	Fuseblock	03E3442
18	Fuse - 5 Amp, 600 V	03E1678
19	Din Rail Terminal Block	03E2994
20	Din Rail Terminal Block End Cover	03E2995
21	Terminal Jumper - 4 Pole	03E2999
22	Contactor - 4 Pole 40 Amp 120V Coil	03E3542
23	Suppressor	03E3546
24	Relay - 3PDT 120V AC	0314936
	Relay Socket	03E1650
25	Contactor - 3 Pole 12 Amp 120V Coil	03E2325
26	Decal - Grond Lug Torque	0998563
27	Decal - Ground	0992925
28	Decal - Fuse Holder	0994455
29	Decal - Terminal Strip I.D. - Pos. 1-18 (S.A.)	0997563
30	Decal - Terminal Strip I.D. - Pos. 22-39 (S.A.)	0997564
31	Decal - Danger - Main Power	0998440
32	Decal - 3 Position Terminal Strip - Pos. 19-21	0995244
33	Decal - Ground Symbol	0998562
34	Decal - Main Disconnect Torque	0998460
35	Decal - Terminal Block Torque	0998450
36	Decal - 3 Position Terminal Strip - Pos. 40-42	0995920
37	Decal - 3 Position Terminal Strip - Pos. 43-45	0995921
38	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
39	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
40	#12 x 1/2" Sheet Metal Screw	0164231
41	1/4" x 3/4" Self-Tapping Screw	0164240
42	1/4" x 3/4" Self-Tapping Screw	0164240
43	1/4" x 1/2" Cap Screw	0161059
44	1/4" Lock Nut	0133008
	Swing Around Back Panel Assembly - Extended	9312065

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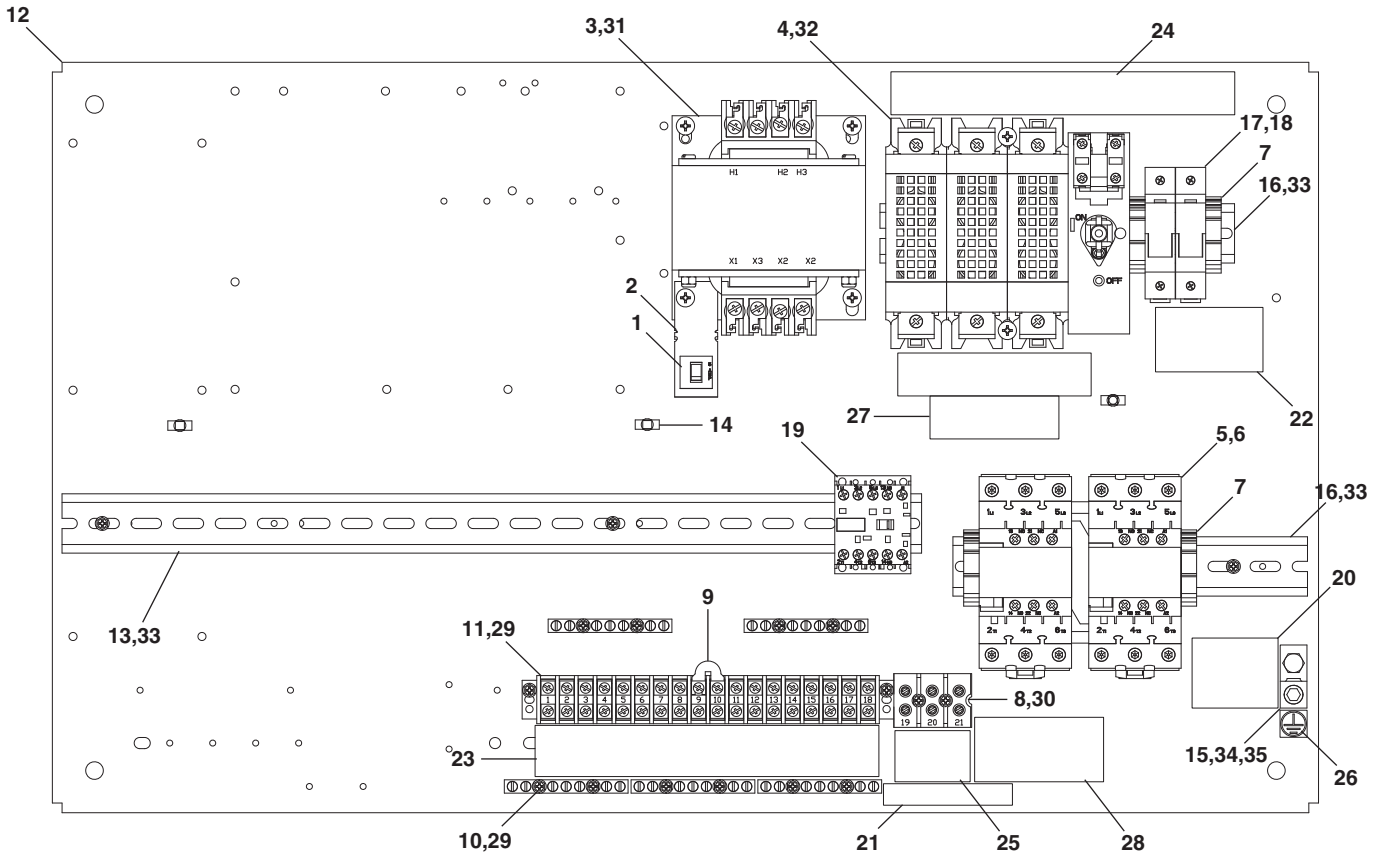
ITEM	DESCRIPTION	PART #	
1	Fuse Block	03E1617	
2	5 Amp Fuse	03E1678	
3	Circuit Protector Reset Switch	03E1590	
4	Reset Switch Bracket	OBSOLETED	
5	Transformer	03E1540	
6	Disconnect Switch Kit (Retrofit)	KA01766	
	Disconnect Switch - DISCONTINUED Oct 18	0315460	
	Fuse Clip Kit - OBSOLETED Oct 18	0315461	
7	Pump Safety Shield	OBSOLETED	
8	Auxiliary Interlock	0314747	
9	Reversing Contactor - 3 Pole 50 Amp 120V	03E2776	
10	Terminal Strip	0315121	
11	Contactor Phase Loss	03E1849	
12	Terminal Block Jumper	03E1644	
13	Ground Lug	0315120	
14	Terminal Strip	03E1561	
15	Back Panel-Control Box	OBSOLETED	
16	Dinrail Mount - 13.75" Long	9311015	
17	Wire Tie Holder	0994494	

ITEM	DESCRIPTION	PART #	
18	Rail Mount Socket	03E1650	*
19	Relay - 120 VAC	0314936	*
20	Contactor - 12A 3 Pole	03E2325	*
21	Suppressor - UL	03E2232	*
22	Terminal Strip - 10 Pos.	03E1649	*
23	Fuse Block - 3 Pole	03E1735	*
24	Fuse Block Dinrail Adaptor	03E1613	*
25	Decal - Terminal Block - 10 Pos.	OBSOLETED	
26	Decal - Danger, Safety LIne Shield	0315928	
27	Decal - Ground	0992925	
28	Decal - Fuse Holder	0994455	
29	Decal - Terminal Strip I.D.	0994458	
30	Decal - Main Disconnect Fuse - 45 Amp	OBSOLETED	
31	Decal - Copper Wire Only	0994836	
32	Decal - 3 Position Terminal Strip	0995244	

COMPLETE 45 Amp Back Panel Assembly ..... **OBSOLETED**

*** These items located in Linear Install. Kit** ..... **OBSOLETED**

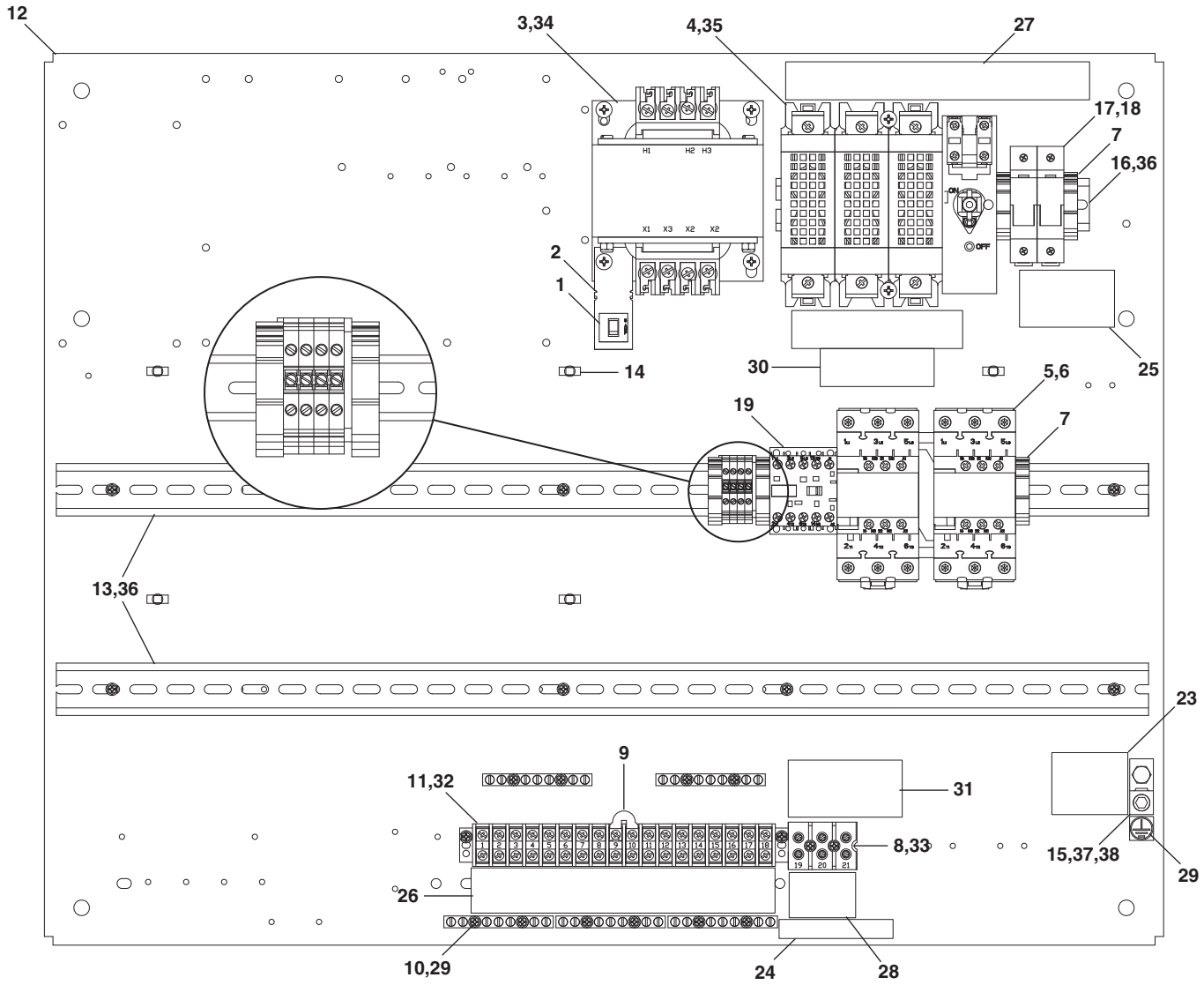
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ITEM	DESCRIPTION	PART #
1	Circuit Protector Reset Switch	03E1590
2	Reset Switch Bracket	9312044
3	Transformer	03E1540
4	Disconnect Switch Kit - 60 Amp	03E3451
5	Reversing Contactor - 50 Amp 120V Coil	03E3454
6	Suppressor	03E3464
7	Din Rail End Stop	03E2996
8	Terminal Strip	0315121
9	Terminal Block Jumper	03E1644
10	Ground Lug	0315120
11	Terminal Strip	03E1561
12	Back Panel	9312019
13	Din Rail - 20" Long	9312031
14	Wire Tie Holder	0994494
15	Ground Lug	03E3455
16	Din Rail - 8.25" Long	9312032
17	Fuseblock	03E3442
18	Fuse - 5 Amp, 600 V	03E1678
19	Contactor - 20 Amp 3-Pole 480V Coil	03E3536

ITEM	DESCRIPTION	PART #
20	Decal - Grond Lug Torque	0998563
21	Decal - Ground	0992925
22	Decal - Fuse Holder	0994455
23	Decal - Terminal Strip I.D.	0994458
24	Decal - Danger - Main Power	0998440
25	Decal - 3 Position Terminal Strip	0995244
26	Decal - Ground Symbol	0998562
27	Decal - Main Disconnect Torque	0998460
28	Decal - Terminal Block Torque	0998450
29	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
30	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
31	#12 x 1/2" Sheet Metal Screw	0164231
32	1/4" x 3/4" Self-Tapping Screw	0164240
33	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
34	1/4" x 1/2" Cap Screw	0161059
35	1/4" Lock Nut	0133008
	45 Amp Back Panel Assembly - Standard	9312030

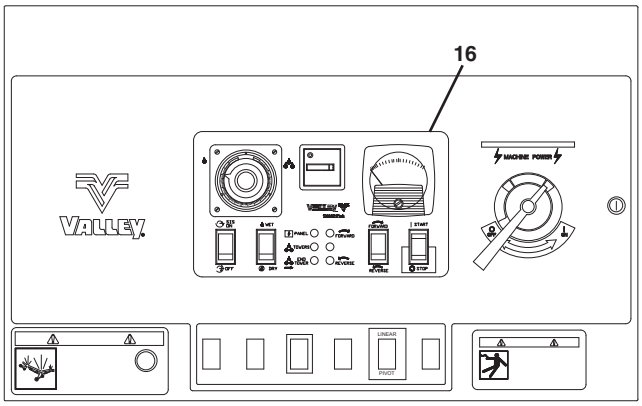
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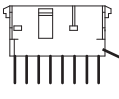


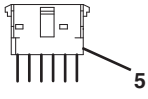
ITEM	DESCRIPTION	PART #
1	Circuit Protector Reset Switch	03E1590
2	Reset Switch Bracket	9312044
3	Transformer	03E1540
4	Disconnect Switch Kit - 60 Amp	03E3451
5	Reversing Contactor - 50 Amp 120V Coil	03E3454
6	Suppressor	03E3464
7	Din Rail End Stop	03E2996
8	Terminal Strip	0315121
9	Terminal Block Jumper	03E1644
10	Ground Lug	0315120
11	Terminal Strip	03E1561
12	Back Panel	9312019
13	Din Rail - 28.75" Long	9312052
14	Wire Tie Holder	0994494
15	Ground Lug	03E3455
16	Din Rail - 8.25" Long	9312032
17	Fuseblock	03E3442
18	Fuse - 5 Amp, 600 V	03E1678
19	Contactor - 20 Amp 3-Pole 480V Coil	03E3536
20	Din Rail Terminal Block	03E2994

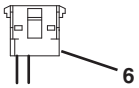
ITEM	DESCRIPTION	PART #
21	Din Rail Terminal Block End Cover	03E2995
22	Terminal Jumper - 4 Pole	03E2999
23	Decal - Grond Lug Torque	0998563
24	Decal - Ground	0992925
25	Decal - Fuse Holder	0994455
26	Decal - Terminal Strip I.D.	0994458
27	Decal - Danger - Main Power	0998440
28	Decal - 3 Position Terminal Strip	0995244
29	Decal - Ground Symbol	0998562
30	Decal - Main Disconnect Torque	0998460
31	Decal - Terminal Block Torque	0998450
32	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
33	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
34	#12 x 1/2" Sheet Metal Screw	0164231
35	1/4" x 3/4" Self-Tapping Screw	0164240
36	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
37	1/4" x 1/2" Cap Screw	0161059
38	1/4" Lock Nut	0133008
	45 Amp Back Panel Assembly - Extended	9312051

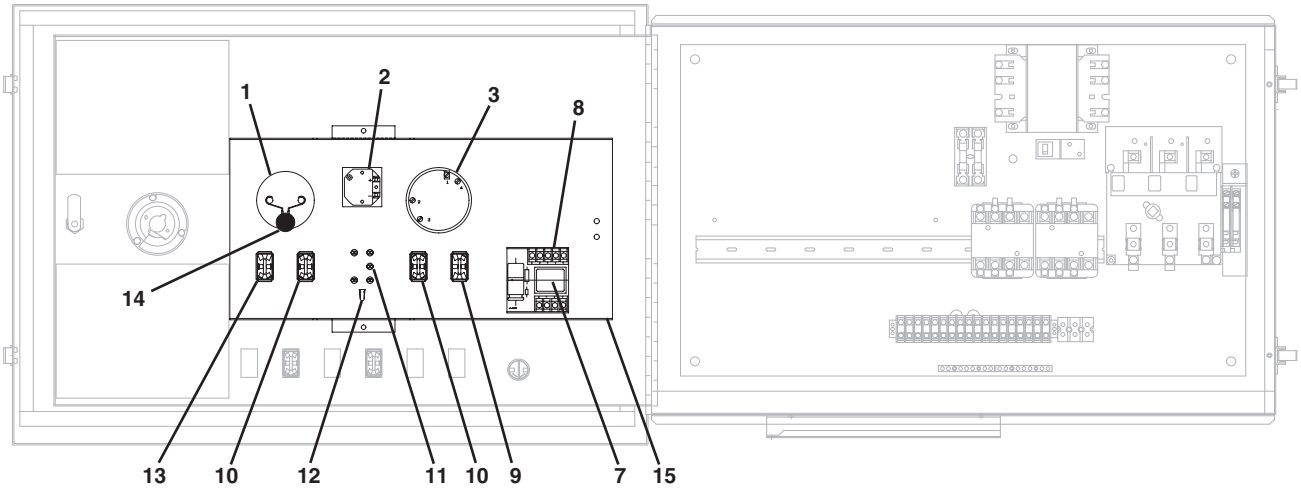
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ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
2	Hourmeter	03E1562
3	Percent Timer	03E2035
*	Solid State Percentage Timer - 60 Sec.	03E1802
*	Solid State Percentage Timer - 120 Sec.	03E1938
4	8 Circuit Cap Assembly	1813144
5	6 Circuit Cap Assembly	1813143
6	4 Circuit Cap Assembly	1813142
7	Cable Tie - 11" Long	0314834
8	Relay	0315559
	3 Second Delay	0315560
	Snap Track	0991422
	#6-32 Machine Screw - Flat Head	0164109
	#6 Nut	0134027

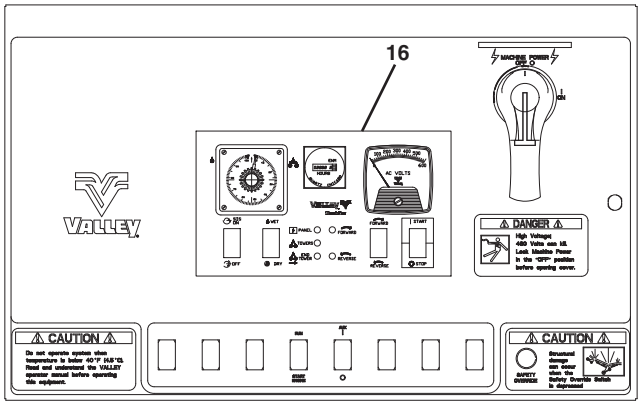
ITEM	DESCRIPTION	PART #
9	Rocker Switch 2 Tab S.P.D.T. 15A	03E1721
10	Rocker Switch 6 Tab D.P.D.T. 15A	03E1722
11	Indicator Lights (5 Required)	0314595
12	Connector	0315545
13	Rocker Switch Progressive Circuit D.P. 15A	03E1723
14	Transient Voltage Suppressor 550V	03E2069
15	Mechanical Module Mount Bracket	9310001
16	Mechanical Module Bracket Overlay	03E1567

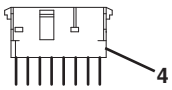
COMPLETE ClassicPlus Module Assembly **9312035**

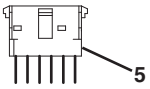
*** NOTE: Can be modified for a 15, 30, 60, or 120 second range.**

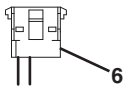
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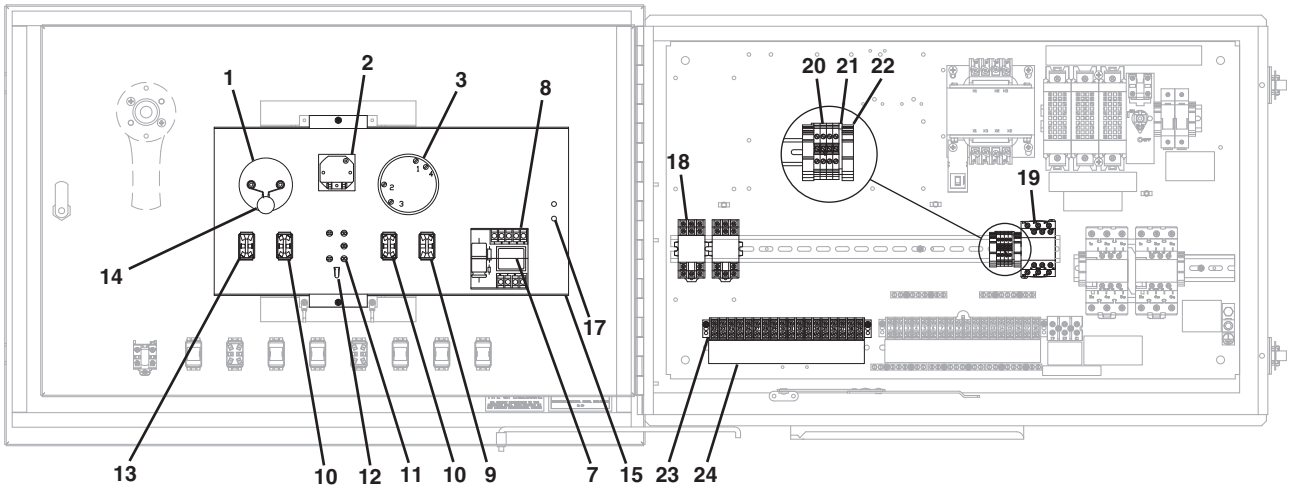
FRONT VIEW OF MODULE INSTALLED









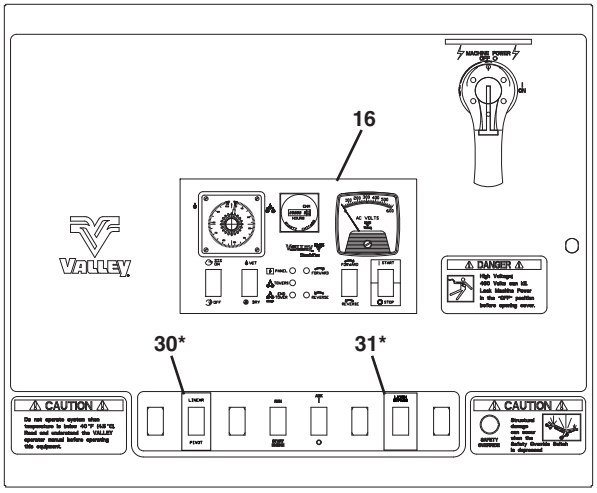


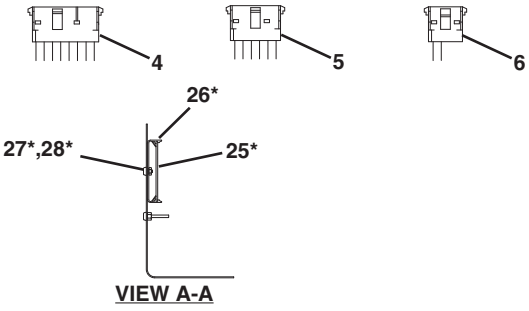
ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
	Vinyl Cap	0314754
2	Hourmeter	03E1562
*3	Solid State Percentage Timer - 60 Sec.	03E1802
4	8 Circuit Cap Assembly	1813144
5	6 Circuit Cap Assembly	1813143
6	4 Circuit Cap Assembly	1813142
7	Cable Tie - 11" Long	0314834
8	Relay	0315559
	3 Second Delay	0315560
	Snap Track	0991422
	#6-32 x 1/4" Machine Screw - Phillips Head	0164207
	#6 Nut	0134027
9	Rocker Switch 2 Tab S.P.D.T. 15A	03E1721
10	Rocker Switch 6 Tab D.P.D.T. 15A	03E1722
11	Indicator Lights (5 Required)	0314595
12	Connector	0315545
13	Rocker Switch - Progressive Circuit D.P. 15A	03E1723

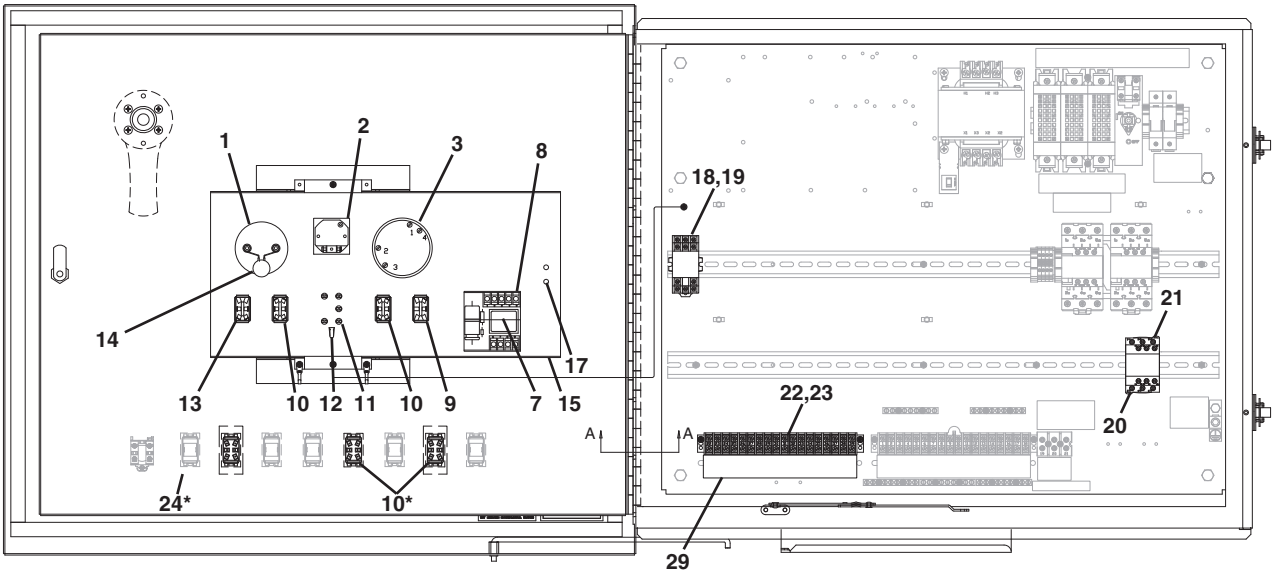
ITEM	DESCRIPTION	PART #
14	Transient Voltage Suppressor 550V	03E2069
15	Mechanical Module Mount Bracket	9310001
16	Mechanical Module Bracket Overlay	03E1567
17	Wire Tie	03E1605
18	Relay - 3PDT 120V AC	0314936
	Relay Socket - 3PDT	03E1650
19	Contactor - 3-Pole 12 Amp	03E2325
	Suppressor	03E3546
20	Terminal Strip - Din Rail	03E2994
	Terminal Jumper - 4-Pole	03E2999
21	Terminal End Cover - Din Rail	03E2995
22	End Stop - Din Rail	03E2996
23	Terminal Strip - 18 Pos.	03E1561
	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
24	Decal - Terminal Strip I.D. Pos. 22-39	0998885
	ClassicPlus Module Assembly	9312035
	Can be modified for a 15, 30 or 120 second range.	

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FRONT VIEW OF MODULE INSTALLED







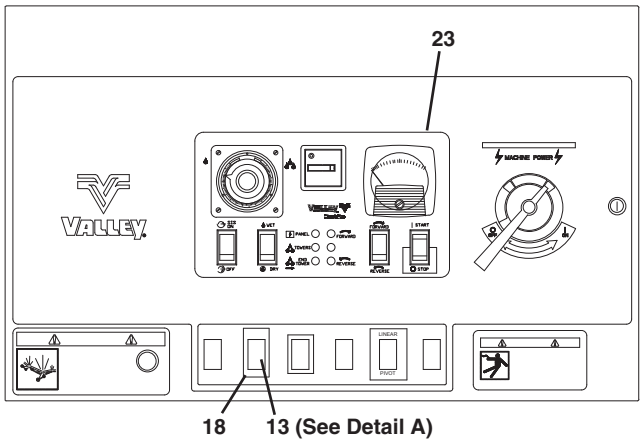
ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
	Vinyl Cap	0314754
2	Hourmeter	03E1562
*3	Solid State Percentage Timer - 60 Sec.	03E1802
4	8 Circuit Cap Assembly	1813144
5	6 Circuit Cap Assembly	1813143
6	4 Circuit Cap Assembly	1813142
7	Cable Tie - 11" Long	0314834
8	Relay	0315559
	3 Second Delay	0315560
	Snap Track	0991422
	#6-32 x 1/4" Machine Screw - Phillips Head	0164207
	#6 Nut	0134027
9	Rocker Switch 2 Tab S.P.D.T. 15A	03E1721
10	Rocker Switch 6 Tab D.P.D.T. 15A	03E1722
11	Indicator Lights (5 Required)	0314595
12	Connector	0315545
13	Rocker Switch - Progressive Circuit D.P. 15A	03E1723
14	Transient Voltage Suppressor 550V	03E2069
15	Mechanical Module Mount Bracket	9310001
16	Mechanical Module Bracket Overlay	03E1567
17	Wire Tie	03E1605
18	Relay - 3PDT 120V AC	0314936

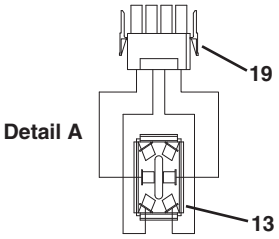
ITEM	DESCRIPTION	PART #
19	Relay Socket - Dinrail Mount 3PDT 11 Pin	03E1650
20	Contactor - 3 Pole 12 Amp 120VAC 60 Hz	03E2325
21	Suppressor	03E3546
22	Terminal Strip - 18 Pos.	03E1561
23	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
24	Rocker Switch DPST - 2 Pos.	03E2757
25	Steering Relay PCB Assm	03E1936
26	Snap Track Mounting Channel - 12" Long	0995899
27	#8x x 5/16" Bolt w/Seal	0164223
28	#8 x 32 UNC Hex Nut	0134023
29	Decal - Terminal Strip 22-39	0998885
30	Decal - Swing Around Linear - OBSOLETED Apr 17	0994576
31	Decal - Latch Bypass - OBSOLETED Apr 17	0997561
	ClassicPlus Module Assembly Can be modified for a 15, 30, 60, or 120 second range.	9312035

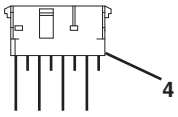
***NOTE: Addiditional Rocker Switches (item 10) along with Rocker Switch (item 18), Swing Around Linear Decal (item 23), Latch Bypass Decal (item 24) & Steering Relay PCB Assm. and its hardware (items 25-28) come with Swing Around Option. For 4 Wheel Linear Swing Around Backpanel parts refer to page 14-17 in this section.**

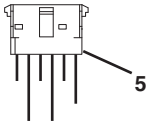
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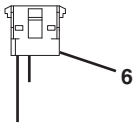
FRONT VIEW OF MODULE INSTALLED

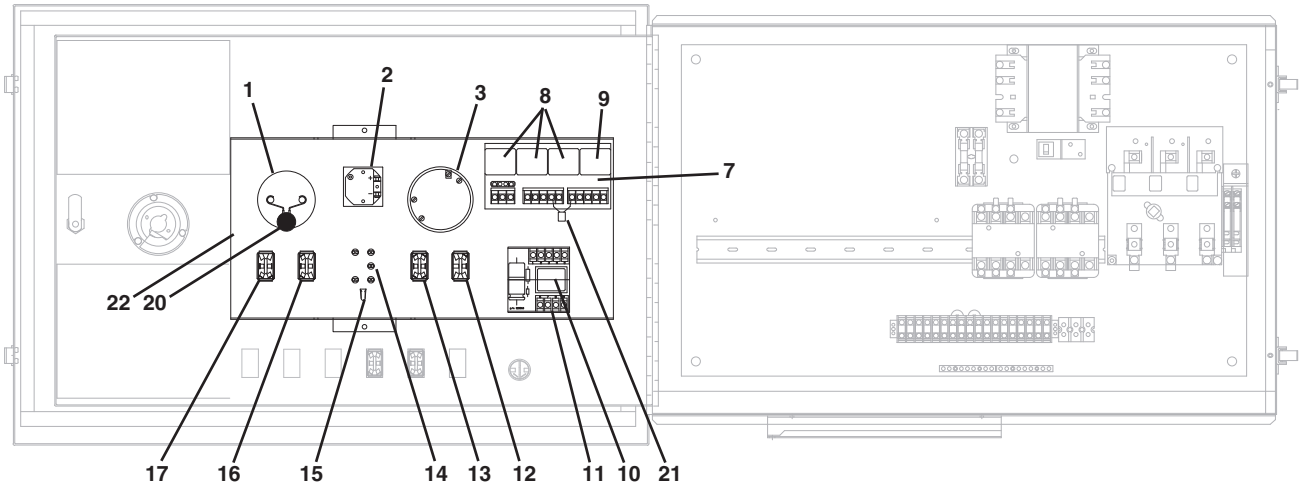












ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
2	Hourmeter	03E1562
3	Percent Timer	03E2035
	*Solid State Percentage Timer - 60 Sec.	03E1802
4	8 Circuit Harness	1814468
5	6 Circuit Cap Assembly	1813143
6	4 Circuit Cap Assembly	1813142
7	Auto Reverse PCB	03E1595
	Snap Track	0991587
	#6-32 Machine Screw - Flat Head	0164109
	#6 Nut	0134027
8	Relay	0314936
	Relay Hold Down Spring	03E1641
9	Relay	0314815
	Relay Hold Down Spring	03E1640
10	Cable Tie	0314834
11	Relay	0315559
	3 Second Delay	0315560
	Snap Track	0991422
	#6-32 Machine Screw - Flat Head	0164109
	#6 Nut	0134027

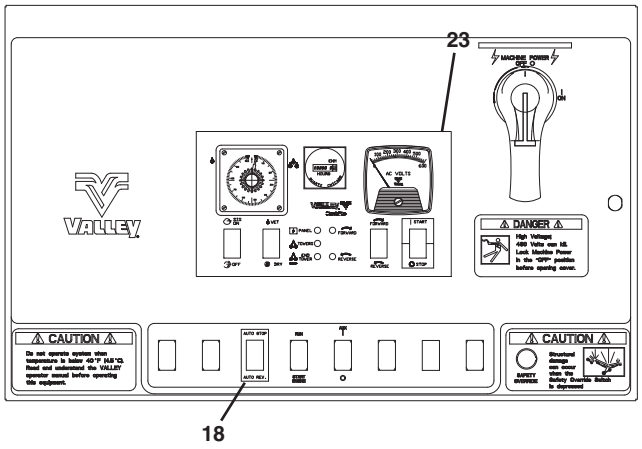
ITEM	DESCRIPTION	PART #
12	Rocker Switch 2 Tab S.P.D.T. 15A	03E1721
13	Rocker Switch 6 Tab D.P.D.T. 15A	03E1722
14	Indicator Lights	0314595
15	Connector	0315545
16	Rocker Switch 3 Tab S.P.D.T. 15A	03E1720
17	Rocker Switch Progressive Circuit	03E1723
18	Decal - A.R.A.S.	0999569
19	A.R.A.S. Harness	1813227
20	Transient Voltage Suppressor 550V	03E2069
21	Suppressor	03E2232
22	Mechanical Module Mount Bracket	9310001
23	Mechanical Module Bracket Overlay	03E1567

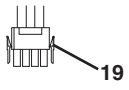
COMPLETE ClassicPlus A.R.A.S. Module Assy **9312036**

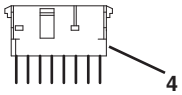
*** NOTE: Can be modified for a 15, 30 or 120 second range.**

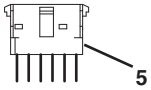
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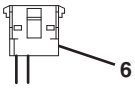
FRONT VIEW OF MODULE INSTALLED

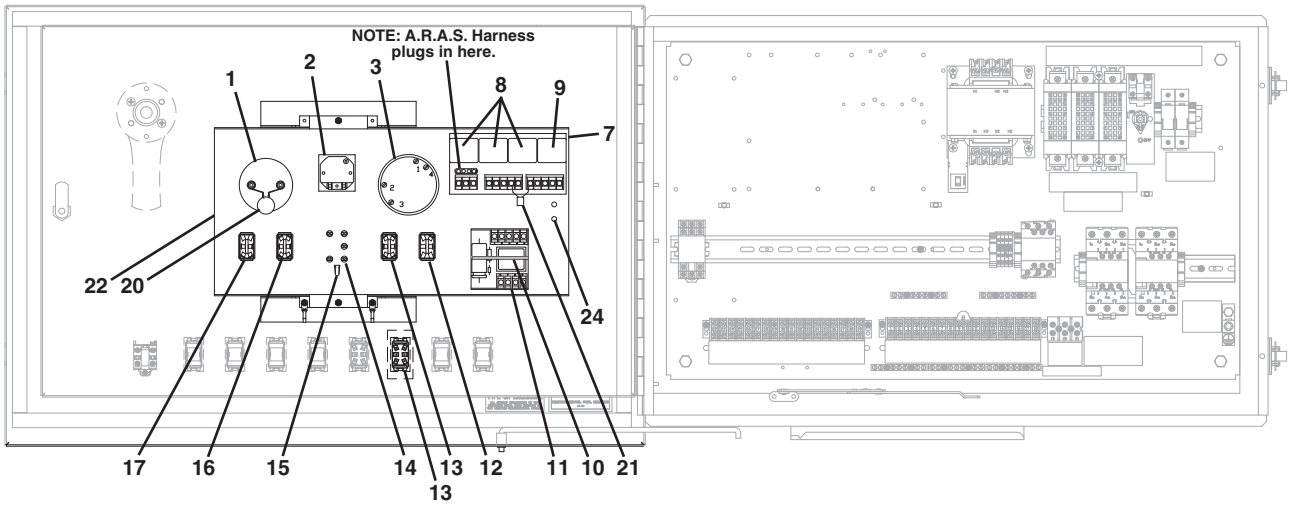












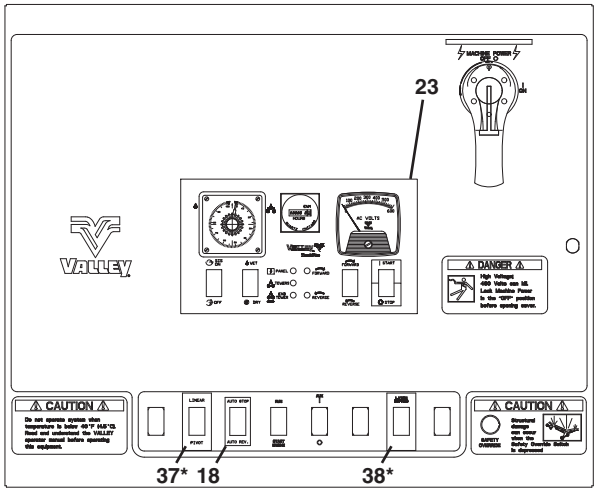
ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
2	Hourmeter	03E1562
* 3	Solid State Percentage Timer - 60 Sec.	03E1802
4	8 Circuit Harness	1814468
5	6 Circuit Cap Assembly	1813143
6	4 Circuit Cap Assembly	1813142
7	Auto Reverse PCB	03E1595
	Snap Track	0991587
	#6-32 x 1/4" Machine Screw - Phillips Head	0164207
	#6 Nut	0134027
8	Relay	0314936
	Relay Hold Down Spring	03E1641
9	Relay	0314815
	Relay Hold Down Spring	03E1640
10	Cable Tie	0314834
11	Relay	0315559
	3 Second Delay	0315560
	Snap Track	0991422
	#6-32 Machine Screw - Flat Head	0164109
	#6 Nut	0134027

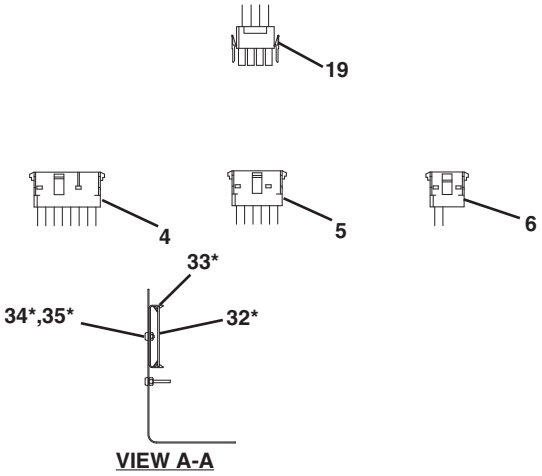
ITEM	DESCRIPTION	PART #
12	Rocker Switch 2 Tab S.P.D.T. 15A	03E1721
13	Rocker Switch 6 Tab D.P.D.T. 15A	03E1722
14	Indicator Lights	0314595
15	Connector	0315545
16	Rocker Switch 3 Tab S.P.D.T. 15A	03E1720
17	Rocker Switch Progressive Circuit	03E1723
18	Decal - A.R.A.S.	0999569
19	A.R.A.S. Harness	1813227
20	Transient Voltage Suppressor 550V	03E2069
21	Suppressor	03E2232
22	Mechanical Module Mount Bracket	9310001
23	Mechanical Module Bracket Overlay	03E1567
24	Wire Tie	03E1605
	ClassicPlus A.R.A.S. Module Assy.	9312036

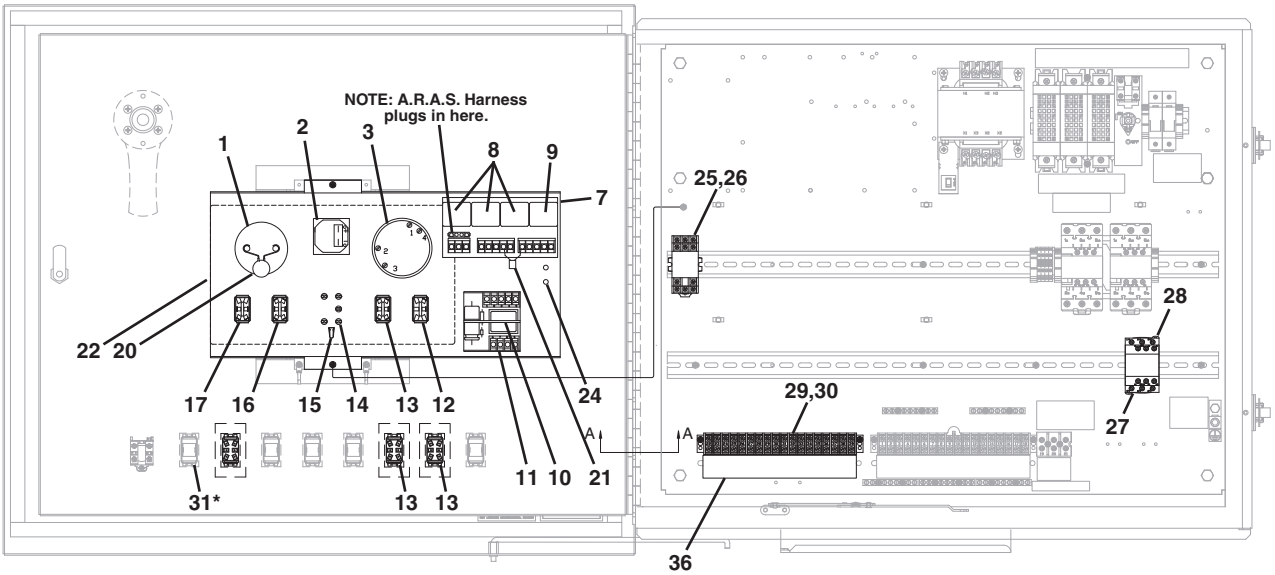
*** NOTE: Can be modified for a 15, 30 or 120 second range.**

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FRONT VIEW OF MODULE INSTALLED





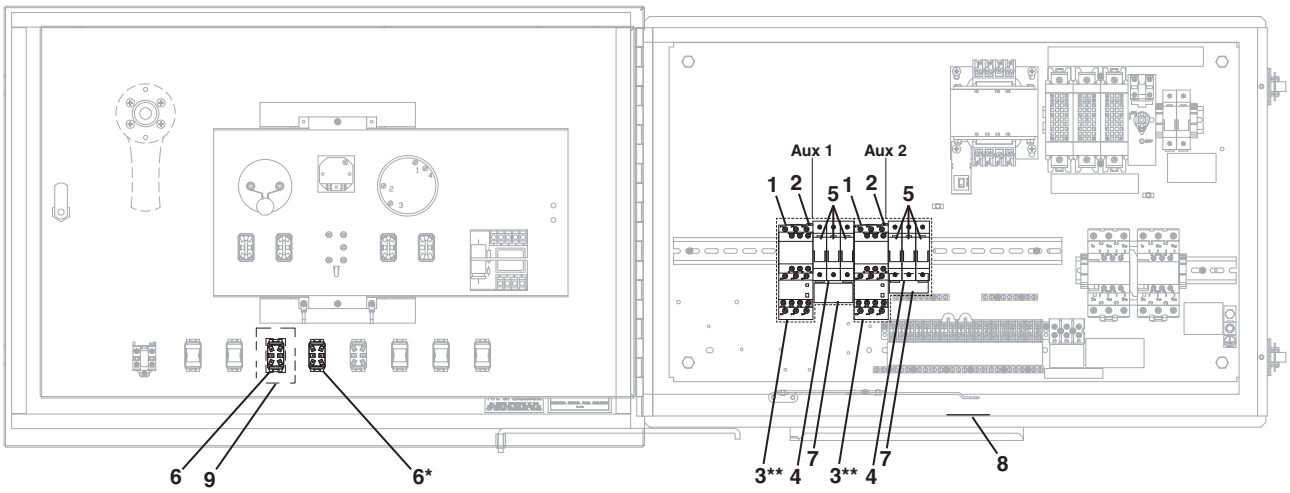


ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
2	Hourmeter	03E1562
*3	Solid State Percentage Timer - 60 Sec.	03E1802
4	8 Circuit Harness	1814468
5	6 Circuit Cap Assembly	1813143
6	4 Circuit Cap Assembly	1813142
7	Auto Reverse PCB	03E1595
	Snap Track	0991587
	#6-32 Machine Screw - Flat Head	0164109
	#6 Nut	0134027
8	Relay	0314936
	Relay Hold Down Spring	03E1641
9	Relay	0314815
	Relay Hold Down Spring	03E1640
10	Cable Tie	0314834
11	Relay	0315559
	3 Second Delay	0315560
	Snap Track	0991422
	#6-32 x 1/4" Machine Screw - Phillips Head	0164207
	#6 Nut	0134027
12	Rocker Switch 2 Tab S.P.D.T. 15A	03E1721
13	Rocker Switch 6 Tab D.P.D.T. 15A	03E1722
14	Indicator Lights	0314595
15	Connector	0315545
16	Rocker Switch 3 Tab S.P.D.T. 15A	03E1720
17	Rocker Switch Progressive Circuit	03E1723
18	Decal - A.R.A.S.	0999569
19	A.R.A.S. Harness	1813227
20	Transient Voltage Suppressor 550V	03E2069

ITEM	DESCRIPTION	PART #
21	Suppressor	03E2232
22	Mechanical Module Mount Bracket	9310001
23	Mechanical Module Bracket Overlay	03E1567
24	Wire Tie	03E1605
25	Relay - 3PDT 120V AC	0314936
26	Relay Socket - Dinrail Mount 3PDT 11 Pin	03E1650
27	Contactor - 3 Pole 12 Amp 120VAC 60 Hz	03E2325
28	Suppressor	03E3546
29	Terminal Strip - 18 Pos	03E1561
30	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
31	Rocker Switch - 2 Position	03E2757
32	Steering Relay PCB	03E1936
33	Snaptrack Mounting Channel - 12" Long	0995899
34	#8 x 5/16" Bolt w/Seal	0164223
35	#8 x 32 UNC Hex Nut	0134023
36	Decal - Terminal Strip 22-39	0998885
37	Decal - Swing Around Linear - OBSOLETED Apr 17	0994576
38	Decal - Latch Bypass - OBSOLETED Apr 17	0997561
	ClassicPlus A.R.A.S. Module Assy.	9312036
	NOTE: Can be modified for a 15, 30 or 120 second range.	

***NOTE: Addiditional Rocker Switches (item 13) along with Rocker Switch (item 31), Swing Around Linear Decal (item 37), Latch Bypass Decal (item 38) & Steering Relay PCB Assm. and its hardware (items 32-35) come with Swing Around Option. For 4 Wheel Linear Swing Around Backpanel parts refer to page 14-17 in this section.**

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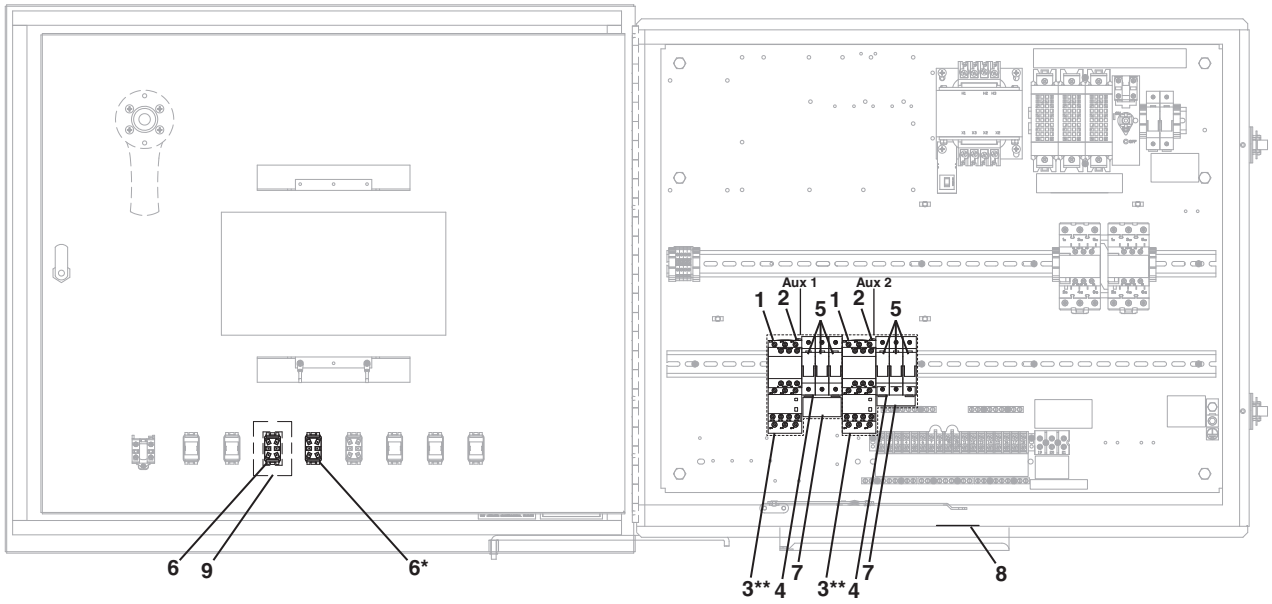
ITEM	DESCRIPTION	PART #
1	Contactor - 3 Pole 12A	03E2325
2	Suppressor	03E3546
3	Overload Relay - 0.63-1.00A	03E2324
	- 1.00-1.60A	03E2323
	- 1.60-2.50A	03E2322
	- 2.50-4.00A	03E2321
	- 4.00-6.00A	03E2320
4	Fuse Block - 3 Pole	03E3443
5	Fuse - 8 Amp 600V Class CC	03E1620
6	Rocker Switch - 6 Tab D.P.D.T.	03E1722
7	Decal - 8 Amp Fuse Replacement	0998946
8	Decal - Auxiliary Control	0994569
9	Decal - Auxiliary 2 On-Off (from Decal Sheet 9310125) (OBSOLETED Apr 2017)	

Auxiliary w/Overload Relay Kit - 0.63-1.00A	KA01612
- 1.00-1.60A	KA01613
- 1.60-2.50A	KA01614
- 2.50-4.00A	KA01615
- 4.00-6.00A	KA01616

*** NOTE: Auxiliary 1**

**** NOTE: Choose the Overload Relay to meet your requirements.**

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ITEM	DESCRIPTION	PART #
1	Contactor - 3 Pole 12A	03E2325
2	Suppressor	03E3546
3	Overload Relay - 0.63-1.00A	03E2324
	- 1.00-1.60A	03E2323
	- 1.60-2.50A	03E2322
	- 2.50-4.00A	03E2321
	- 4.00-6.00A	03E2320
4	Fuse Block - 3 Pole	03E3443
5	Fuse - 8 Amp 600V Class CC	03E1620
6	Rocker Switch - 6 Tab D.P.D.T.	03E1722
7	Decal - 8 Amp Fuse Replacement	0998946
8	Decal - Auxiliary Control	0994569
9	Decal - Auxiliary 2 On-Off (from Decal Sheet 9310125) (OBSOLETED Apr 2017)	
	Auxiliary w/Overload Relay Kit - 0.63-1.00A	KA01612
	- 1.00-1.60A	KA01613
	- 1.60-2.50A	KA01614
	- 2.50-4.00A	KA01615
	- 4.00-6.00A	KA01616

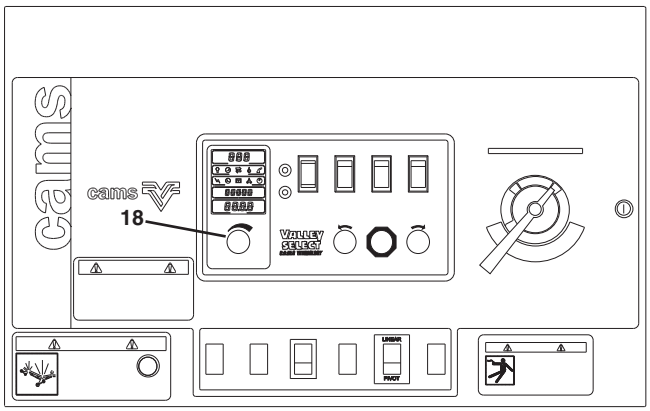
* NOTE: Auxiliary 1

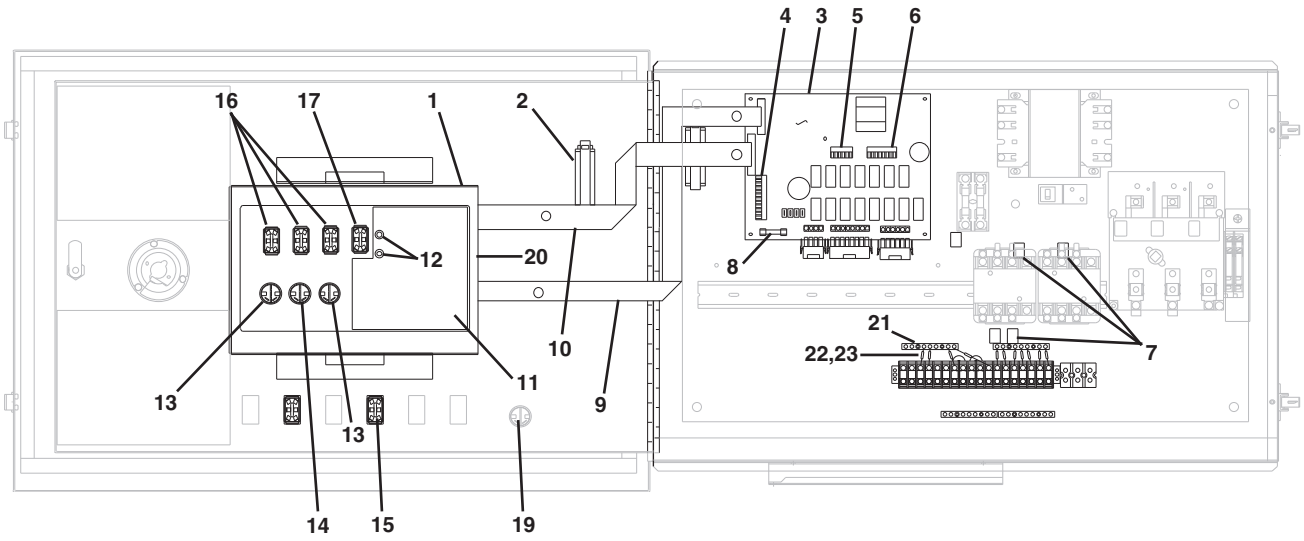
** NOTE: Choose the Overload Relay to meet your requirements.

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PRIOR to July 2008

FRONT VIEW OF MODULE

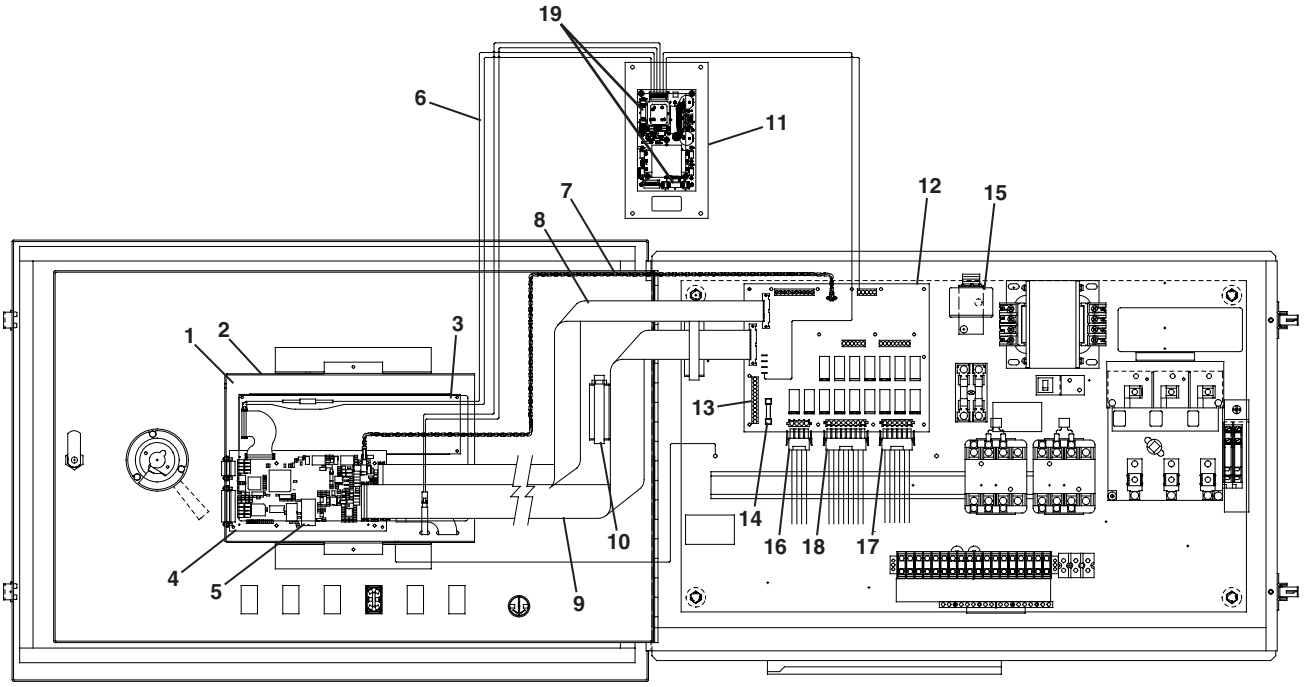




ITEM	DESCRIPTION	PART #
1	Select Module Assm. (Boxed)(OBSOLETE)	KA01329
2	Ribbon Cable Clamp	0315840
3	Relay Board (Boxed)	03E2300
4	Terminal Strip 12 Plug	03E1612
5	Terminal Strip 6 Plug	03E1611
6	Terminal Strip 8 Plug	03E0496
7	Suppressor	0315663
8	2 Amp Fuse	03E1669
9	20 Conductor Ribbon Cable	1813249
10	26 Conductor Ribbon Cable	1812846
11	Select PCB (Boxed)(OBSOLETE)	931K794
12	Push Button Switch (Momentary) (OBSOLETE)	1813358
13	Push Button Switch	03E1679
14	Push Button Switch	03E1564
15	Rocker Switch 6 Tab D.P.D.T. 15A	03E1722
16	Rocker Switch 2 Tab S.P.S.T. 15A	03E1721
17	Rocker Switch 3 Tab S.P.D.T. 15A	03E1720
18	Aluminum Knob -1/4" Shaft	03E1707
19	Switch Pushbutton D.P.D.T.(Safety Override)	03E2224
	Contact Block Only (Service Part)	03E2222
20	Decal-Part Number/Serial Number	03E1884
21	Ground Lug	0315120
22	Transient Voltage Suppressor, 250V	03E1782
23	Insulating Tubing 15/16" Long	03E1788
	Select Module Display Lamp (Service)	03E2226

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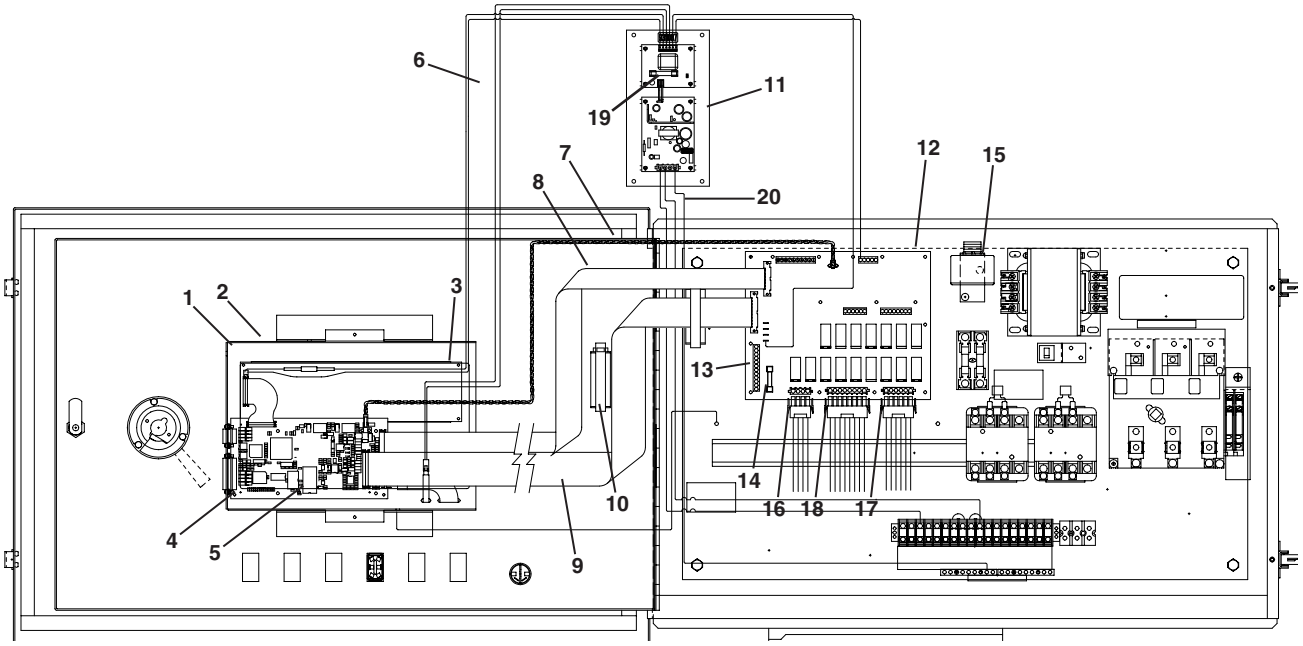
PRIOR TO
May 2007



ITEM	DESCRIPTION	PART #
1	CAMS Pro2 Module Kit w/o Lighted Keypad (In Shipping Box)	KA09546
	CAMS Pro2+ Module Kit (In Shipping Box)	KA01589
2	CAMS Pro2 Keypad w/ Contrast	03E2274
3	4 x 40 LCD Display w/ Backlight & Contrast	03E2275
4	Pro2+ PCB	03E3510
	CAMS Pro2 PCB - DISCONTINUED May 2013	03E2277
5	CAMS Pro2 Real Time Clock	03E2289
6	Backlight Power Supply Harness	9311037
7	CAMS Pro2 Power Harness - 12V	1814255
8	Ribbon Cable Assm. - 20 Position	1813249
9	Ribbon Cable Assm. - 26 Position	1812846
10	Ribbon Cable Clamp	0315840
11	Pro2 Dual Backlight Power Supply	03E2318
12	Select/Pro Relay Board with I/O	03E2300
13	Terminal Strip	03E1612
14	Fuse, 2 Amp - Time Delay - 250V	03E2315
15	Lightning and Surge Arrestor	0315605
	Lightning Arrestor Bracket	1702384
16	4 Circuit Plug, Sockets, Wires	1813160
17	6 Circuit Plug, Sockets, Wires	1813161
18	8 Circuit Plug, Sockets, Wires	1813162
19	3/4 Amp Fuse, 250V	0314824

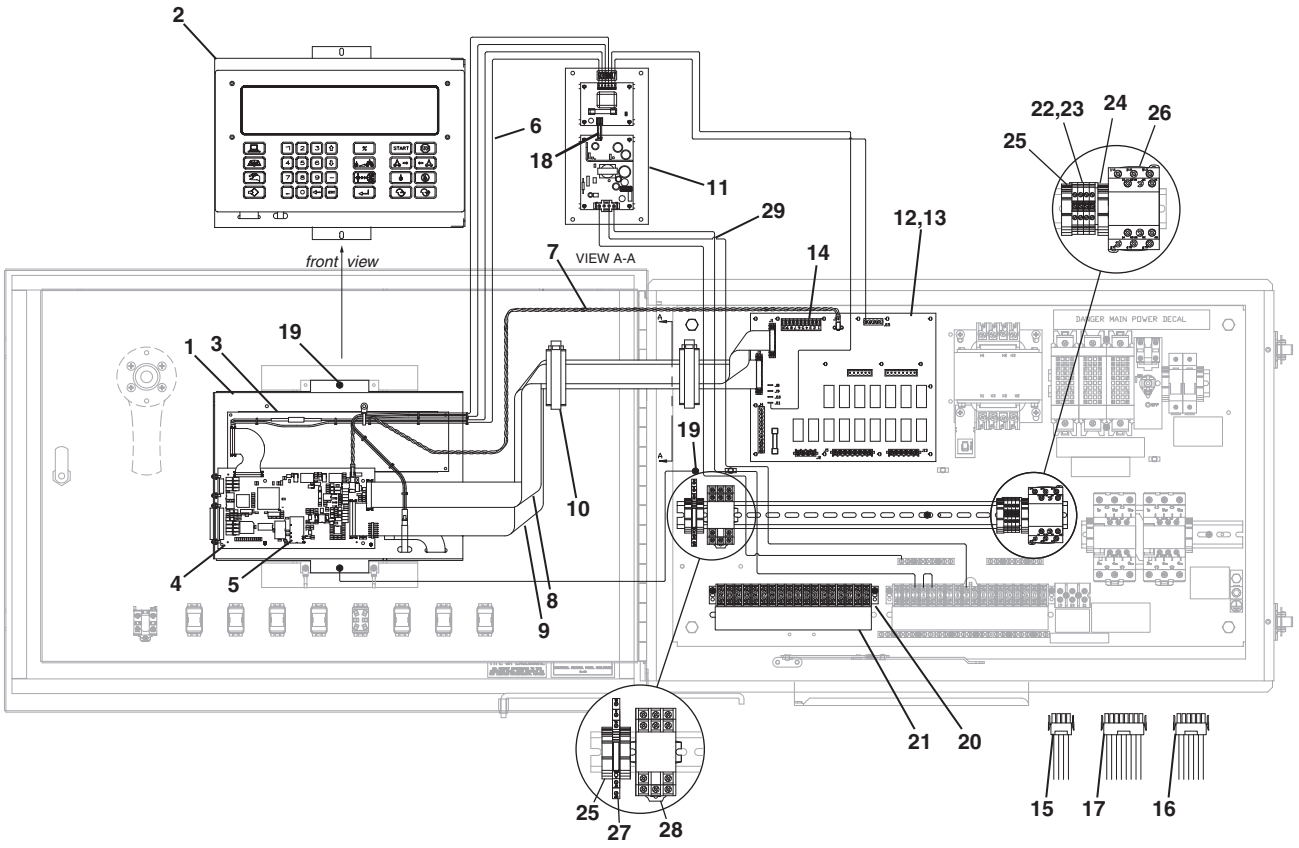
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EFFECTIVE
June 2007



ITEM	DESCRIPTION	PART #
1	AutoPilot Plus Module (In Shipping Box)	KA01591
2	AutoPilot Keypad w/ Contrast	03E2637
3	4 x 40 LCD Display w/ Backlight & Contrast	03E2275
4	Pro2+ PCB	03E3510
5	CAMS Pro2 Real Time Clock	03E2289
6	Backlight Power Supply Harness	9311037
7	CAMS Pro2 Power Harness - 12V	1814255
8	Ribbon Cable Assm. - 20 Position	1813249
9	Ribbon Cable Assm. - 26 Position	1812846
10	Ribbon Cable Clamp	0315840
11	Pro2 Backlight Dual Power Supply	9311087
12	Select/Pro Relay Board with I/O	03E2300
13	Terminal Strip	03E1612
14	Fuse, 2 Amp - Time Delay - 250V	03E2315
15	Lightning and Surge Arrestor	0315605
	Lightning Arrestor Bracket	1702384
16	4 Circuit Plug, Sockets, Wires	1813160
17	6 Circuit Plug, Sockets, Wires	1813161
18	8 Circuit Plug, Sockets, Wires	1813162
19	3/4 Amp Fuse, 250V	0314824
20	Pro2 Backlight Dual Power Supply Harness Assm.	9311781

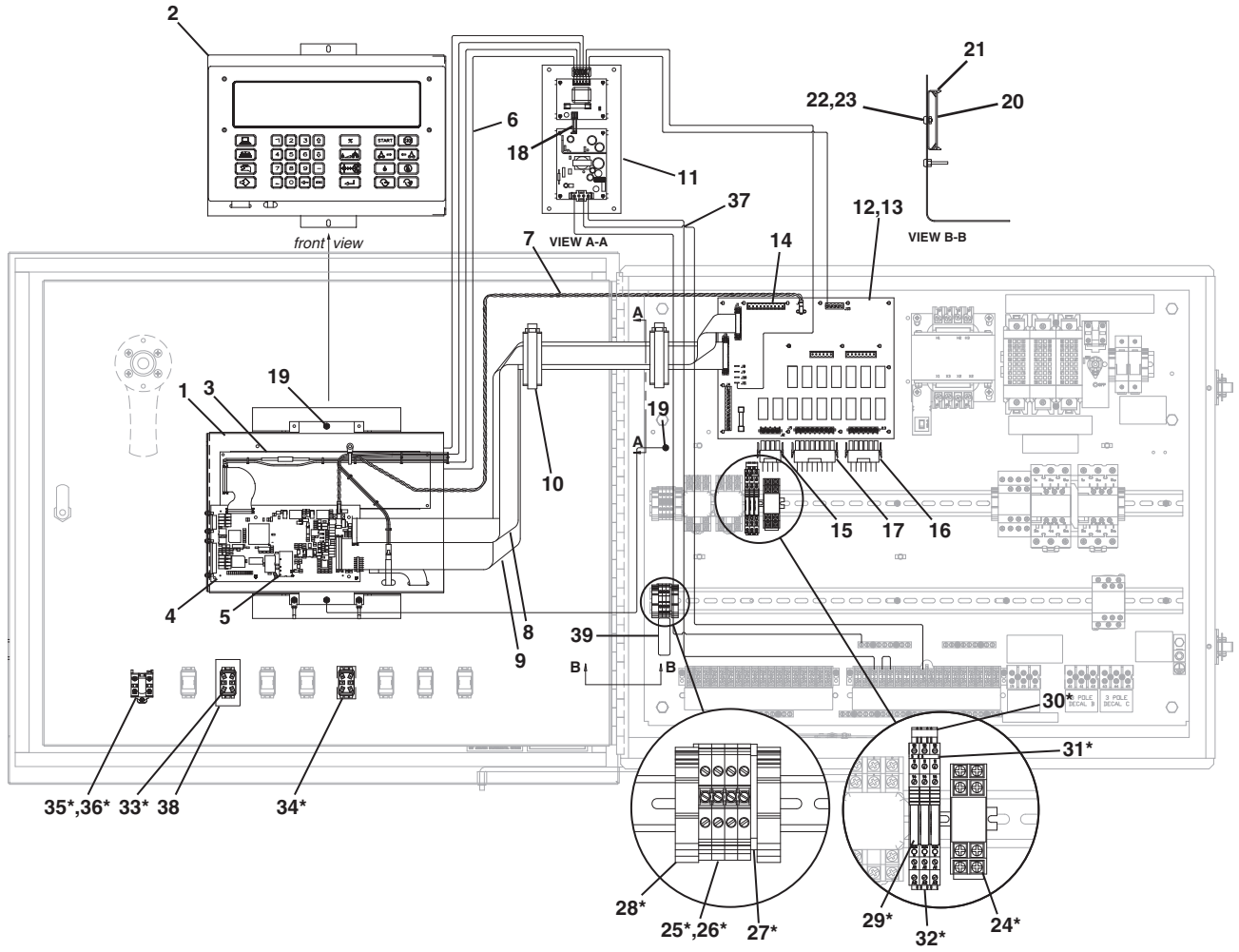
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ITEM	DESCRIPTION	PART #
1	AutoPilot+ Module Kit (In Shipping Box)	KA01591
2	AutoPilot Keypad w/ Contrast	03E2637
3	4 x 40 LCD Display w/ Backlight & Contrast	03E2275
4	Pro2+ PCB	03E3510
	CAMS Pro2 PCB - DISCONTINUED May 2013	03E2277
5	CAMS Pro2 Real Time Clock	03E2289
6	Pro2 Backlight Power Supply Harness	03E2423
7	CAMS Pro2 Power Harness - 12V	1814255
8	Ribbon Cable Assm. - 20 Position	1813249
9	Ribbon Cable Assm. - 26 Position	1812846
10	Ribbon Cable Clamp	0315840
11	Pro2 Backlight Dual Power Supply	9311087
12	Select/Pro Relay Board with I/O (Boxed)	03E2300
13	Snap-In Spacer	03E0412
14	Terminal Strip Plug - 10 Pole	03E1985
15	4 Circuit Plug, Sockets, Wires	1813160
16	6 Circuit Plug, Sockets, Wires	1813161

ITEM	DESCRIPTION	PART #
17	8 Circuit Plug, Sockets, Wires	1813162
18	3/4 Amp Fuse, 250V	0314824
19	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
20	Terminal Strip - 18 Pole	03E1561
	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
21	Decal - Terminal Strip I.D. Pos. 22-39	0998885
22	Terminal Strip - Din Rail	03E2994
23	Terminal Jumper - 4 Pole	03E2999
24	Terminal End Cover - Din Rail	03E2995
25	End Stop - Din Rail	03E2996
26	Contactor - 3 Pole 12A	03E2325
27	Relay w/Suppressor - 120VAC	03E2881
28	Relay - 3PDT 120V AC	0314936
	Relay Socket - 3PDT 10A 300V	03E1650
29	Pro2 Backlight Dual Power Supp. Harness Assm.	9311781

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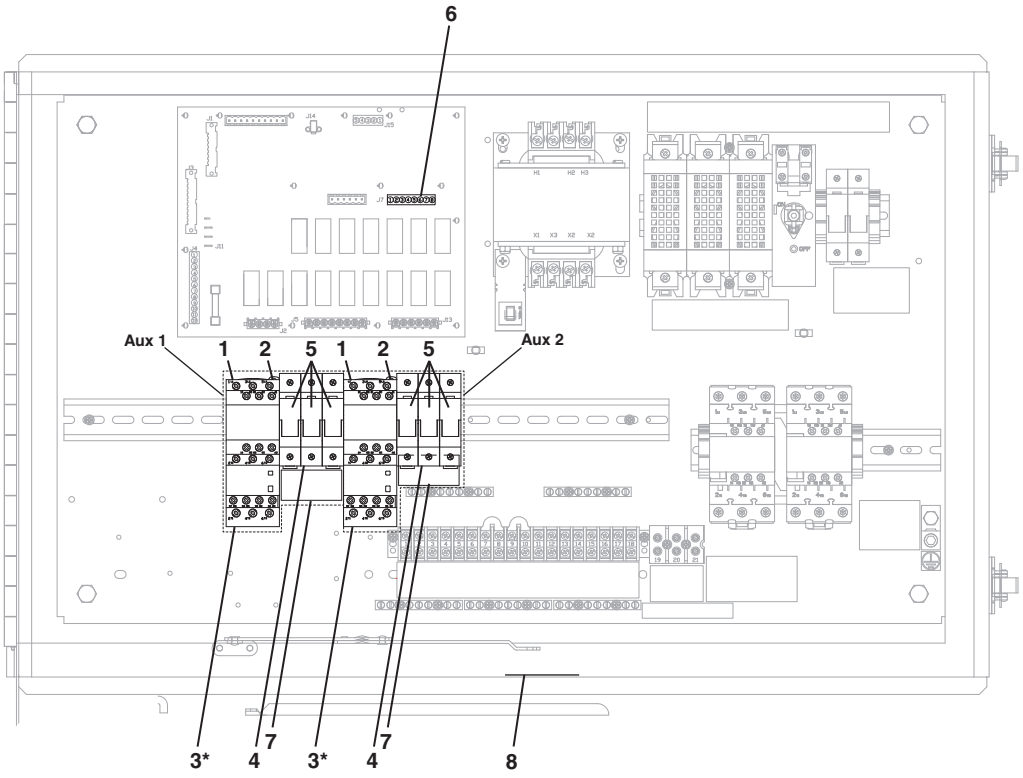


ITEM	DESCRIPTION	PART #
1	AutoPilot+ Module Kit (In Shipping Box)	KA01591
2	AutoPilot Keypad w/ Contrast	03E2637
3	4 x 40 LCD Display w/ Backlight & Contrast	03E2275
4	Pro2+ PCB	03E3510
	CAMS Pro2 PCB - DISCONTINUED May 2013	03E2277
5	CAMS Pro2 Real Time Clock	03E2289
6	Pro2 Backlight Power Supply Harness	03E2423
7	CAMS Pro2 Power Harness - 12V	1814255
8	Ribbon Cable Assm. - 20 Position	1813249
9	Ribbon Cable Assm. - 26 Position	1812846
10	Ribbon Cable Clamp	0315840
11	Pro2 Backlight Dual Power Supply	9311087
12	Select/Pro Relay Board with I/O (Boxed)	03E2300
13	Snap-In Spacer	03E0412
14	Terminal Strip Plug - 10 Pole	03E1985
15	4 Circuit Plug, Sockets, Wires	1813160
16	6 Circuit Plug, Sockets, Wires	1813161
17	8 Circuit Plug, Sockets, Wires	1813162
18	3/4 Amp Fuse, 250V	0314824
19	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
20	Steering Relay PCB	03E1936
21	Snaptrack Mounting Channel - 12" Long	0995899
22	#8 x 5/16" Bolt w/Seal	0164223

ITEM	DESCRIPTION	PART #
23	#8 x 32 UNC Hex Nut	0134023
24	Relay - DPDT 10A 12VDC	03E2564
	Relay Socket - 2 Pole 10A 300V	03E2107
25	Terminal Strip - Din Rail	03E2994
26	Terminal Jumper - 4 Pole	03E2999
27	Terminal End Cover - Din Rail	03E2995
28	End Stop - Din Rail	03E2996
29	Relay w/Suppressor - 120VAC	03E2881
30	Jumper - Blue	03E2882
31	Jumper - Red	03E2883
32	Jumper - Grey	03E2884
33	Rocker Switch - 2 Pos.	03E2757
34	Rocker Switch DPDT - 15A	03E1722
35	Push Button	03E2438
36	Push Button Base	03E2439
37	Pro2 Backlight Dual Power Supp. Harness Assm.	9311781
38	Decal - Latch Bypass - OBSOLETED Apr 2017	0997561
39	Decal - 3 Position Terminal Block	0997587

***NOTE: Items 24 thru 36 come with 4 Wheel Linear AutoPilot Swing Around Option. For 4 Wheel Linear Swing Around Backpanel parts refer to page 14-17 in this section**

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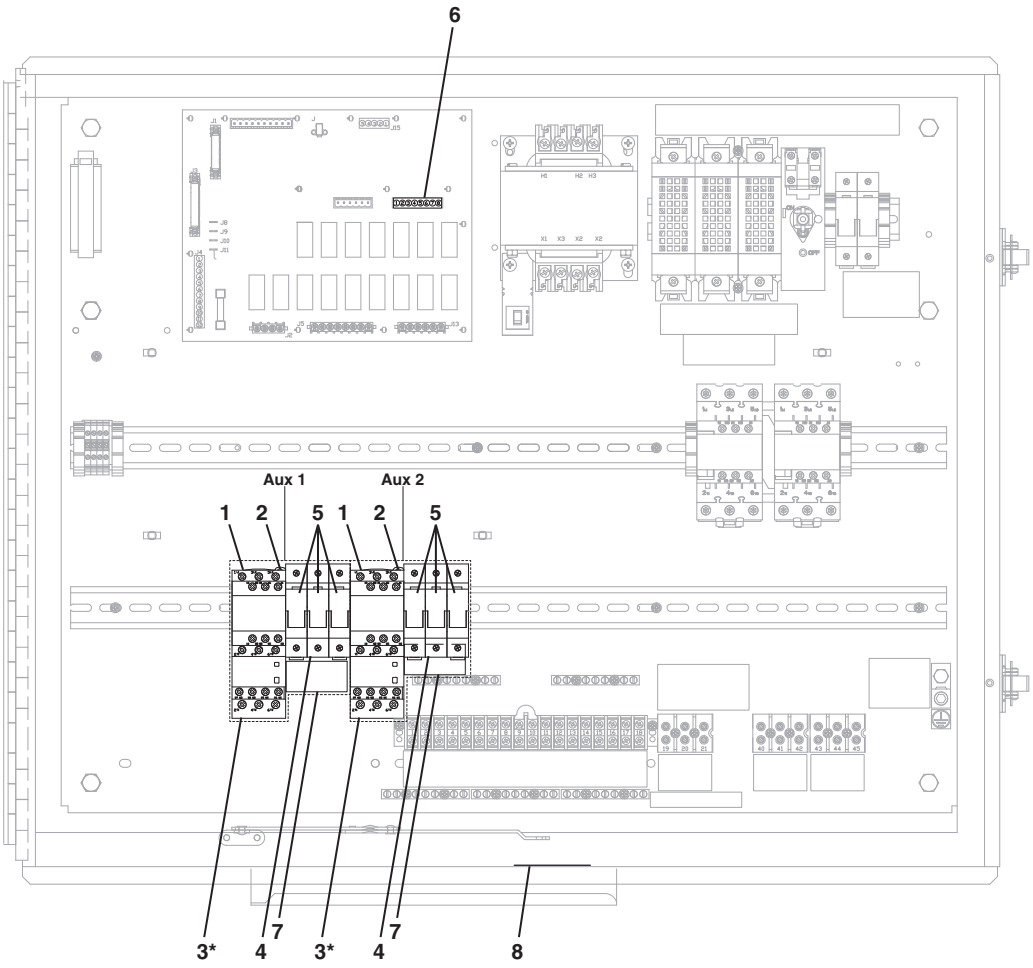


ITEM	DESCRIPTION	PART #
1	Contactor - 3 Pole 12A	03E2325
2	Suppressor	03E3546
3	Overload Relay - 0.63-1.00A	03E2324
	- 1.00-1.60A	03E2323
	- 1.60-2.50A	03E2322
	- 2.50-4.00A	03E2321
	- 4.00-6.00A	03E2320
4	Fuse Block - 3 Pole	03E3443
5	Fuse - 8 Amp 600V Class CC	03E1620
6	Terminal Plug - 8 Pole	03E0496
7	Decal - 8 Amp Fuse Replacement	0998946
8	Decal - Auxiliary Control	0994569

Auxiliary w/Overload Relay Kit - 0.63-1.00A	KA01612
- 1.00-1.60A	KA01613
- 1.60-2.50A	KA01614
- 2.50-4.00A	KA01615
- 4.00-6.00A	KA01616

*** NOTE: Choose the Overload Relay to meet your requirements.**

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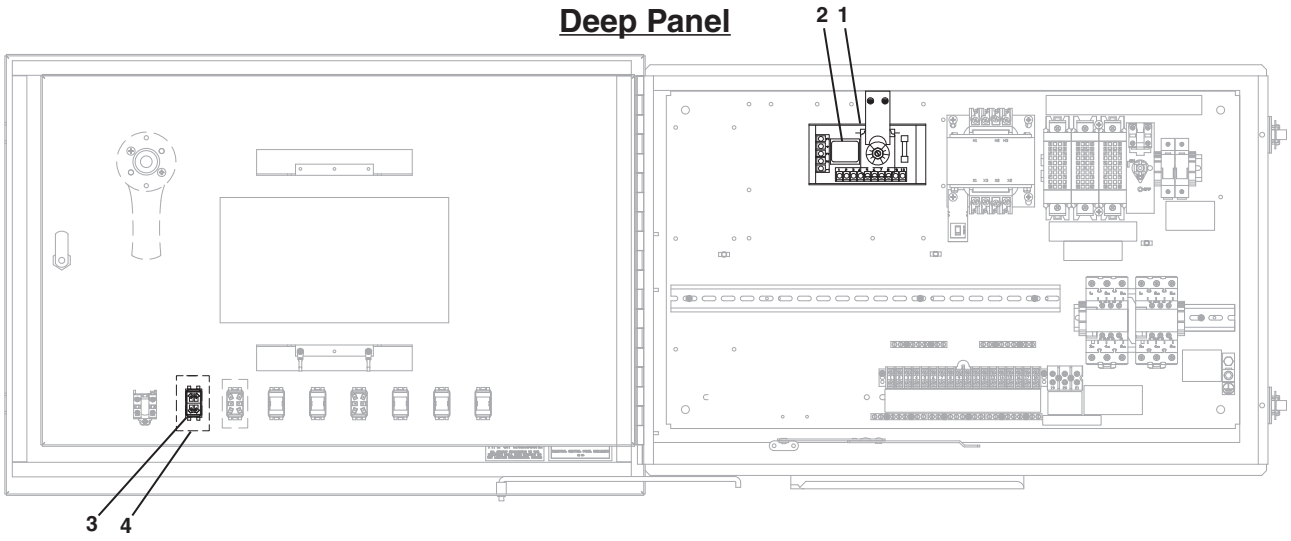
ITEM	DESCRIPTION	PART #
1	Contactor - 3 Pole 12A	03E2325
2	Suppressor	03E3546
3	Overload Relay - 0.63-1.00A	03E2324
	- 1.00-1.60A	03E2323
	- 1.60-2.50A	03E2322
	- 2.50-4.00A	03E2321
	- 4.00-6.00A	03E2320
4	Fuse Block - 3 Pole	03E3443
5	Fuse - 8 Amp 600V Class CC	03E1620
6	Terminal Plug - 8 Pole	03E0496
7	Decal - 8 Amp Fuse Replacement	0998946
8	Decal - Auxiliary Control	0994569

Auxiliary w/Overload Relay Kit - 0.63-1.00A	KA01612
- 1.00-1.60A	KA01613
- 1.60-2.50A	KA01614
- 2.50-4.00A	KA01615
- 4.00-6.00A	KA01616

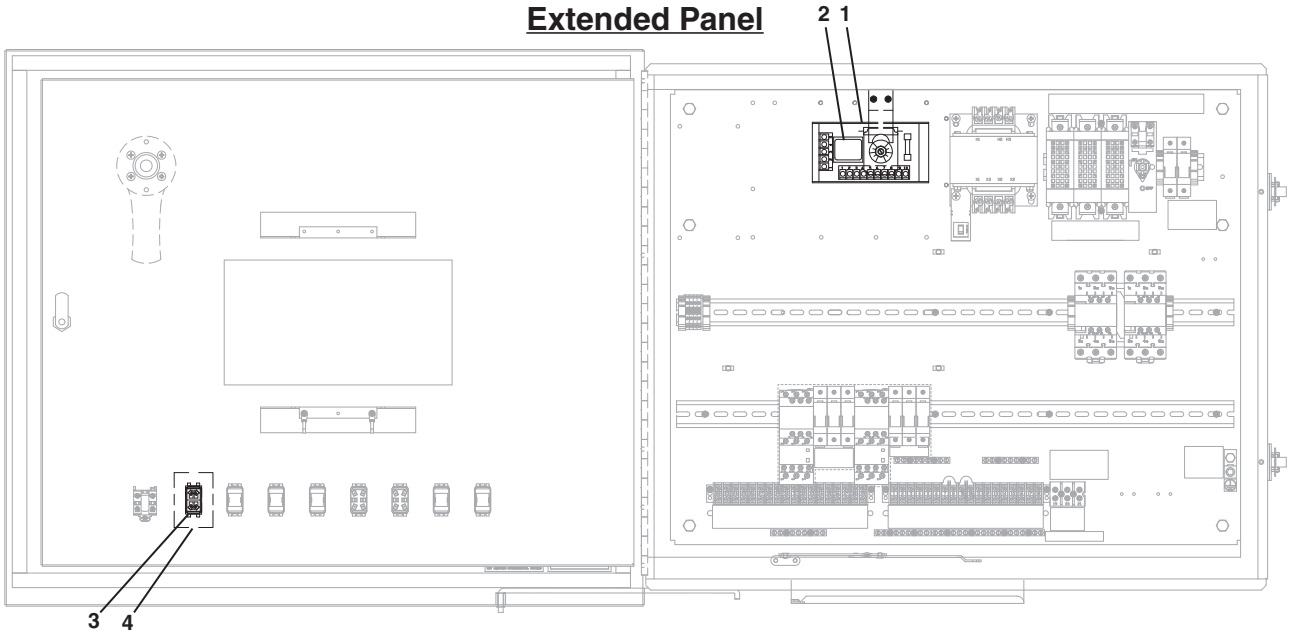
*** NOTE: Choose the Overload Relay to meet your requirements.**

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Deep Panel

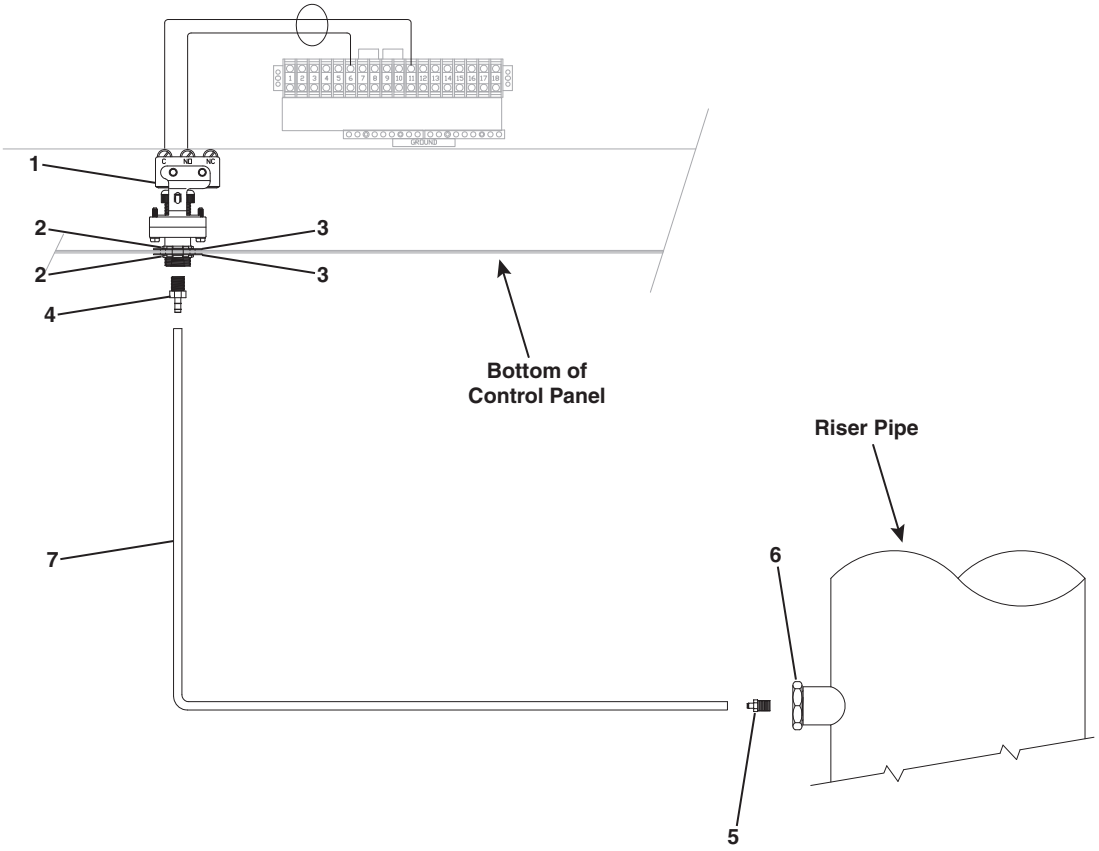


Extended Panel



ITEM		DESCRIPTION	PART #
1	or	Voltage Monitor	0314975
		Adjustable Voltage Monitor - OBSOLETED Feb 2017	03E2731
		Low Voltage Indicator	0315580
		Snaptrack	0991587
		Voltage Monitor Bracket	1702049
		#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
		Warranty Sealant	0315084
2		Relay - 120V AC	0314815
3		Split Panel Light - 125V (Amber/Red)	03E2030
4		Decal - Power/Safety - OBSOLETED Apr 2017	0996010

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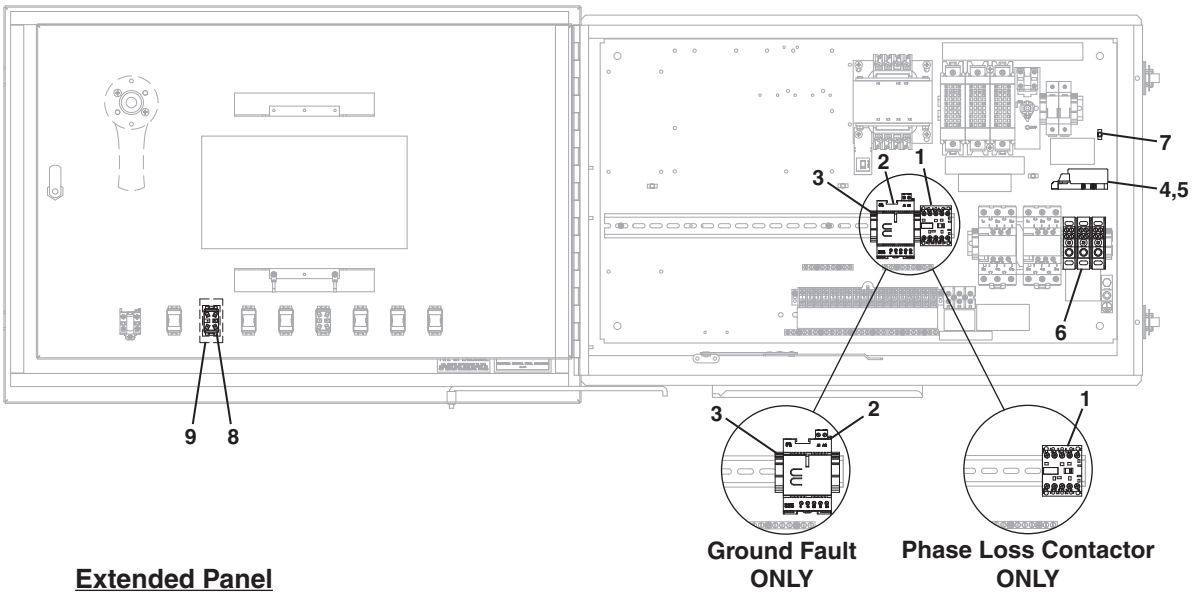


ITEM	DESCRIPTION	PART #
1	Pressure Switch - High Range (3-90 psi)	03E1606
	Pressure Switch - Low Range (.6-15 psi)	0315994
2	1/2" Romax Nut	0314160
3	Reducer Washer - 1.00" to .50"	0143046
4	Connector - Tube to Male Pipe - 1/8" NPT x 1/4" Tubing	0232362 *
5	Connector - 1/4" NPT x 1/4" Tube	0232366 *
6	Reducer - 3/4" x 1/4" Plastic	0244046 *
7	Nylon Tubing - .304" OD x .19" ID x 10' Long	1704093 *

*1/4" Tubing and Fitting Kit KA09721

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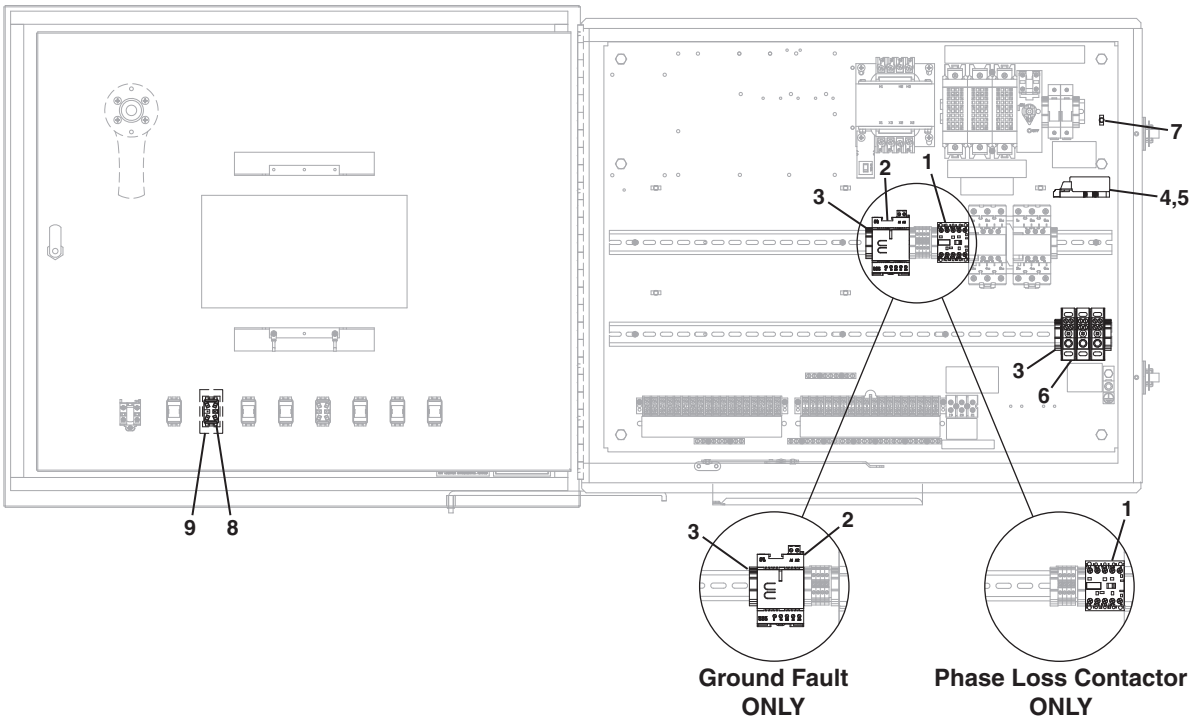
Deep Panel



Ground Fault ONLY

Phase Loss Contactor ONLY

Extended Panel



Ground Fault ONLY

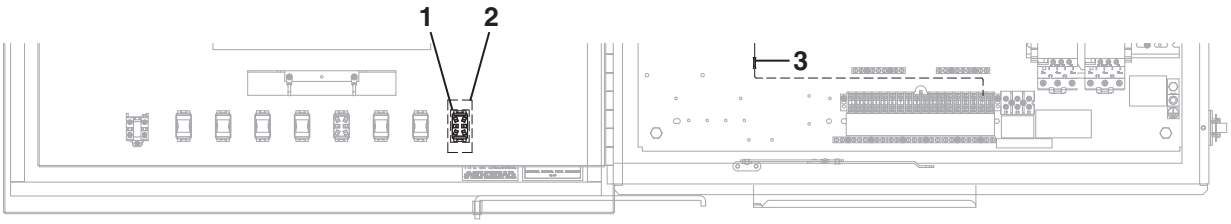
Phase Loss Contactor ONLY

ITEM	DESCRIPTION	PART #
1	Contactor - Phase Loss 480V Coil	03E3536
2	Ground Fault Relay - 110-130V	03E3110 *
3	Din Rail End Stop	03E2996 *
4	Ground Fault Sensor	03E3109 *
5	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355 *
6	Power Distribution Block - 3 Pole	03E3441 *
7	Wire Tie Holder	0994494 *
8	Illuminated Rocker Switch	03E3116 *
9	Decal - Ground Fault Reset/Test - OBSOLETED Apr 2017	0998099 *

*** NOTE: Items used in conjunction with Ground Fault Relay (item 2).**

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NOTE: Same parts used in both Deep & Extended Panels.



End Gun Test / Auto / Off Kit

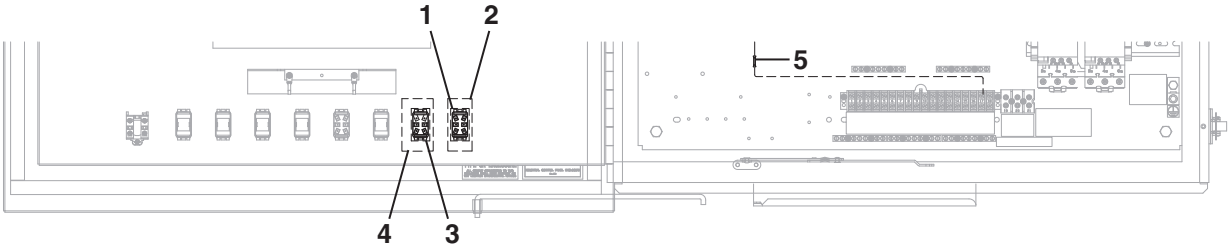
ITEM	DESCRIPTION	PART #
1	Rocker Switch - Progressive Circuit	03E1723
2	Decal - E.G. Test/Auto/Off - OBSOLETED Apr 2017	0994508
3	Butt Splice Wire Connector	03E1266

End Gun Auto / Off / Override On Kit

ITEM	DESCRIPTION	PART #
1	Rocker Switch - On/Off/On	03E1983
2	Decal - E.G. Auto/Off/Override On - OBSOLETED Apr 2017	0997243
3	Butt Splice Wire Connector	03E1266

End Gun Sequence Selection 1 or 2 Kit

ITEM	DESCRIPTION	PART #
1	Rocker Switch - 6 Tab D.P.D.T.	03E1722
2	Decal - End Gun Sequence Selector	0995238
3	Butt Splice Wire Connector	03E1266



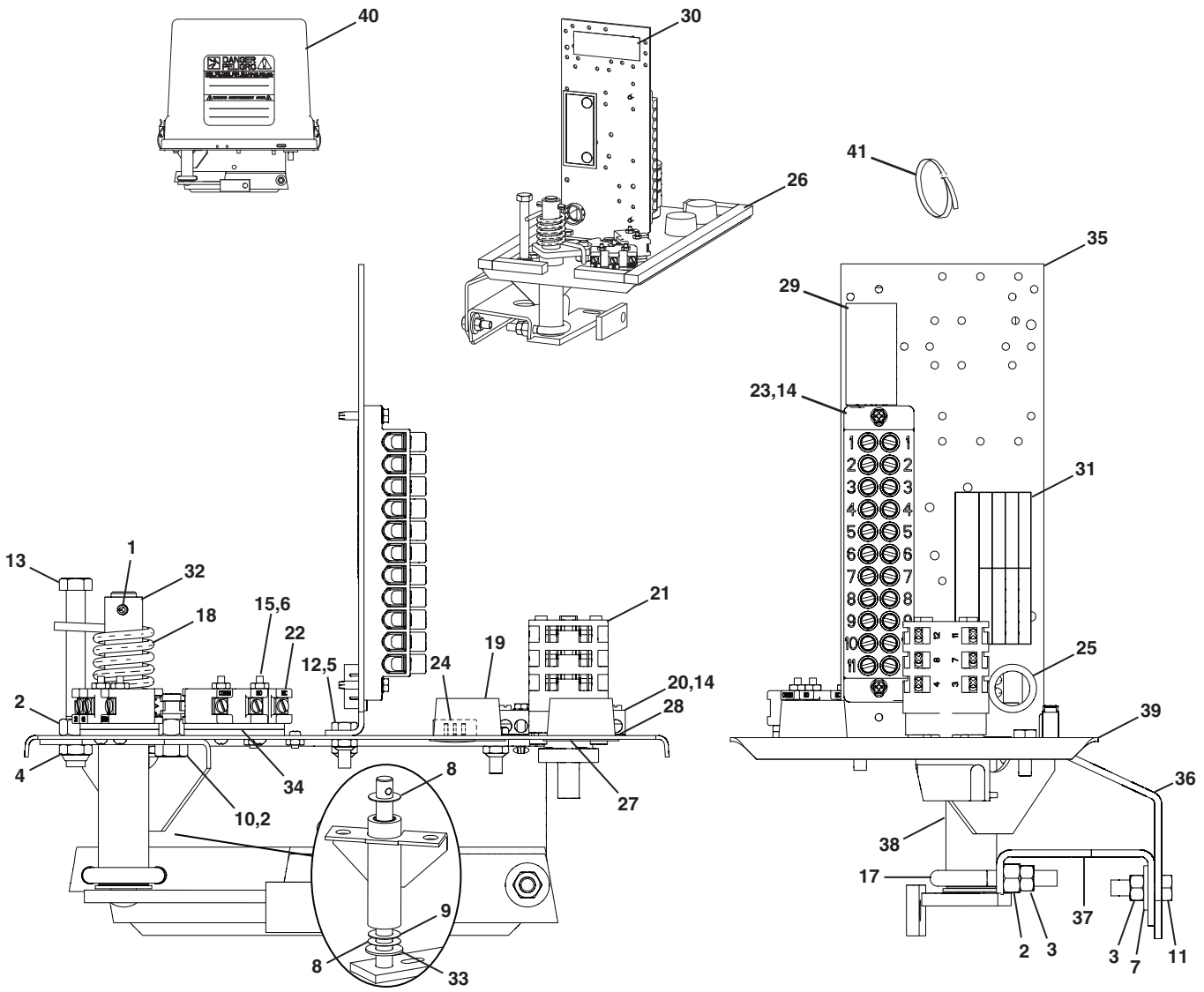
End Gun Sequence / Auto / Test Kit

ITEM	DESCRIPTION	PART #
1	Rocker Switch - 6 Tab D.P.D.T.	03E1722
2	Decal - End Gun Sequence Selector Language Sheet	0999660
3	Rocker Switch - Progressive Circuit	03E1723
4	Decal - E.G. Test/Auto/Off Language Sheet	0999658
5	Butt Splice Wire Connector	03E1266

End Gun Sequence Auto / Off / Override On Kit

ITEM	DESCRIPTION	PART #
1	Rocker Switch - 6 Tab D.P.D.T.	03E1722
2	Decal - End Gun Sequence Selector	0995238
3	Rocker Switch - On/Off/On	03E1983
4	Decal - E.G. Auto/Off/Override On - OBSOLETED Apr 2017	0997243
5	Butt Splice Wire Connector	03E1266

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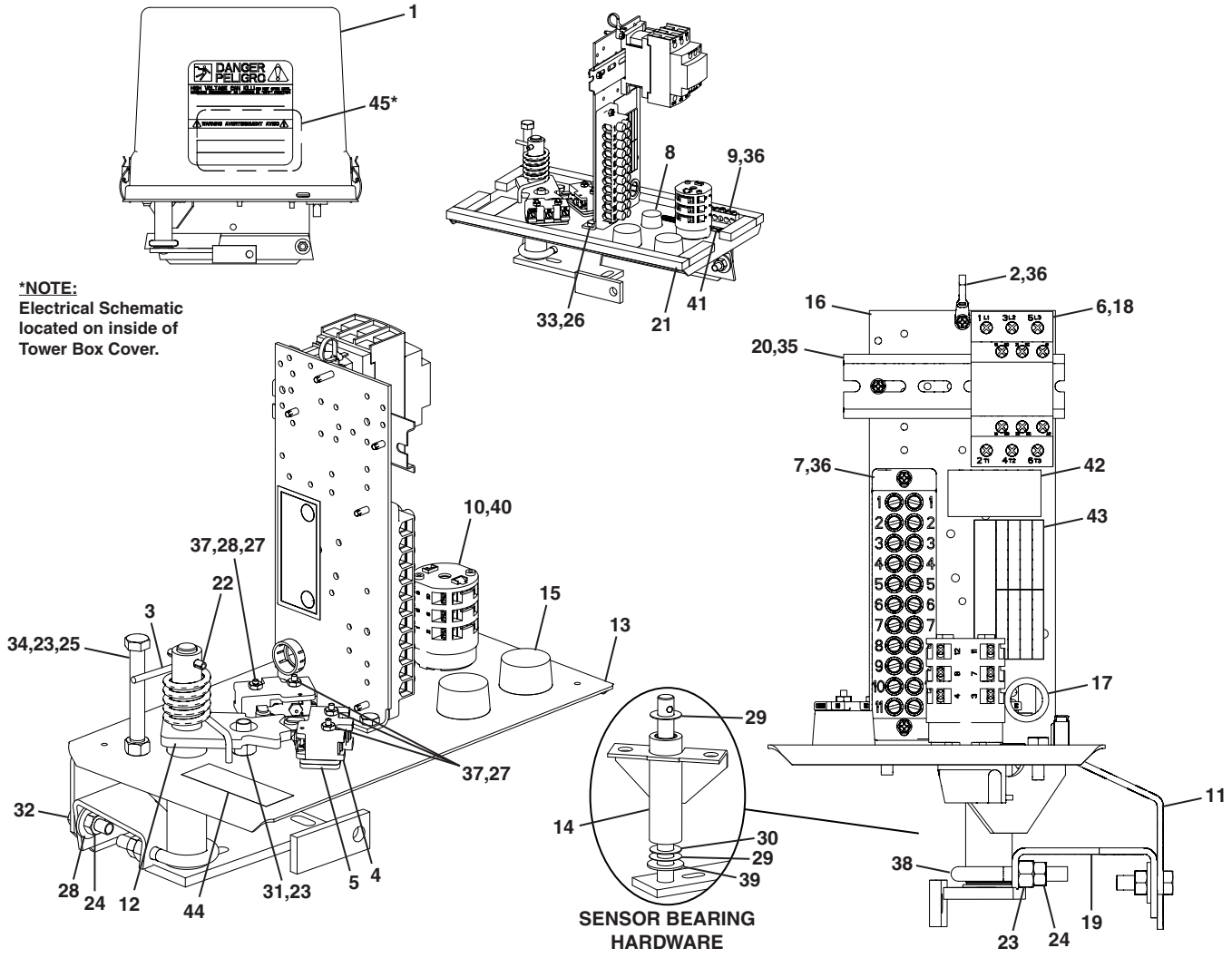


SENSOR BEARING WASHERS

ITEM	DESCRIPTION	PART #
1	3/16" x 1-1/4" Roll Pin	0111017
2	3/8" Hex Nut	0131018
3	5/16" Hex Nut	0131019
4	3/8" Lock Nut	0133006
5	1/4" Lock Nut	0133008
6	#6 Hex Nut	0134027
7	5/16" Flat Washer	0142017
8	Flat Washer .030 x .510 x .968 - Stainless Steel	0143047
9	Flat Washer .010 x .512 x .996 - Stainless Steel	0143066
10	3/8" x 1" Cap Screw	0161045
11	5/16" x 1" Cap Screw	0161052
12	1/4" x 3/4" Cap Screw	0161057
13	3/8" x 3-1/2" Long Cap Screw	0161150
14	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
15	#6 x 1-1/4" Machine Screw - Round Head	0164054
16	#6 x 1/2" Machine Screw - Pan Head Phillips	0164188
17	5/16" U-Bolt	0176049
18	Spring	0181046
19	Caplug 15X	0261010
20	Ground Lug	0315120
21	Disconnect Switch	0315746
22	Micro Switch - Minimum Travel	03E0307

ITEM	DESCRIPTION	PART #
23	Terminal Block	03E1899
24	Snap Button Hole Plug	03E2166
25	Snap Bushing	0992070
26	Gasket Kit	0992071
27	Decal - Disconnect	0992090
28	Decal - Ground	0992925
29	Decal - Power Supply	0994149
30	Decal - 3R Enclosure	0996403
32	Decal - Terminal Block Torque Copper Wire	0998450
33	Switch Pivot Arm Assembly	1701262
34	Sensor Arm Washer	1701269
35	Sensor Base Insulator	1701632
36	Vertical Bracket	1702053
37	Mounting Plate	1702054
38	Sensor Bearing Support Bracket	1702294
39	Sensor Bearing Assembly w/Bushings	1703336
40	Bottom Plate w/3 Microswitched	1703823
41	Electric Tower Box Cover - UL	9311146
42	Wire Tie	0314225
	Centerfeed Tower Box Assm.	1811433

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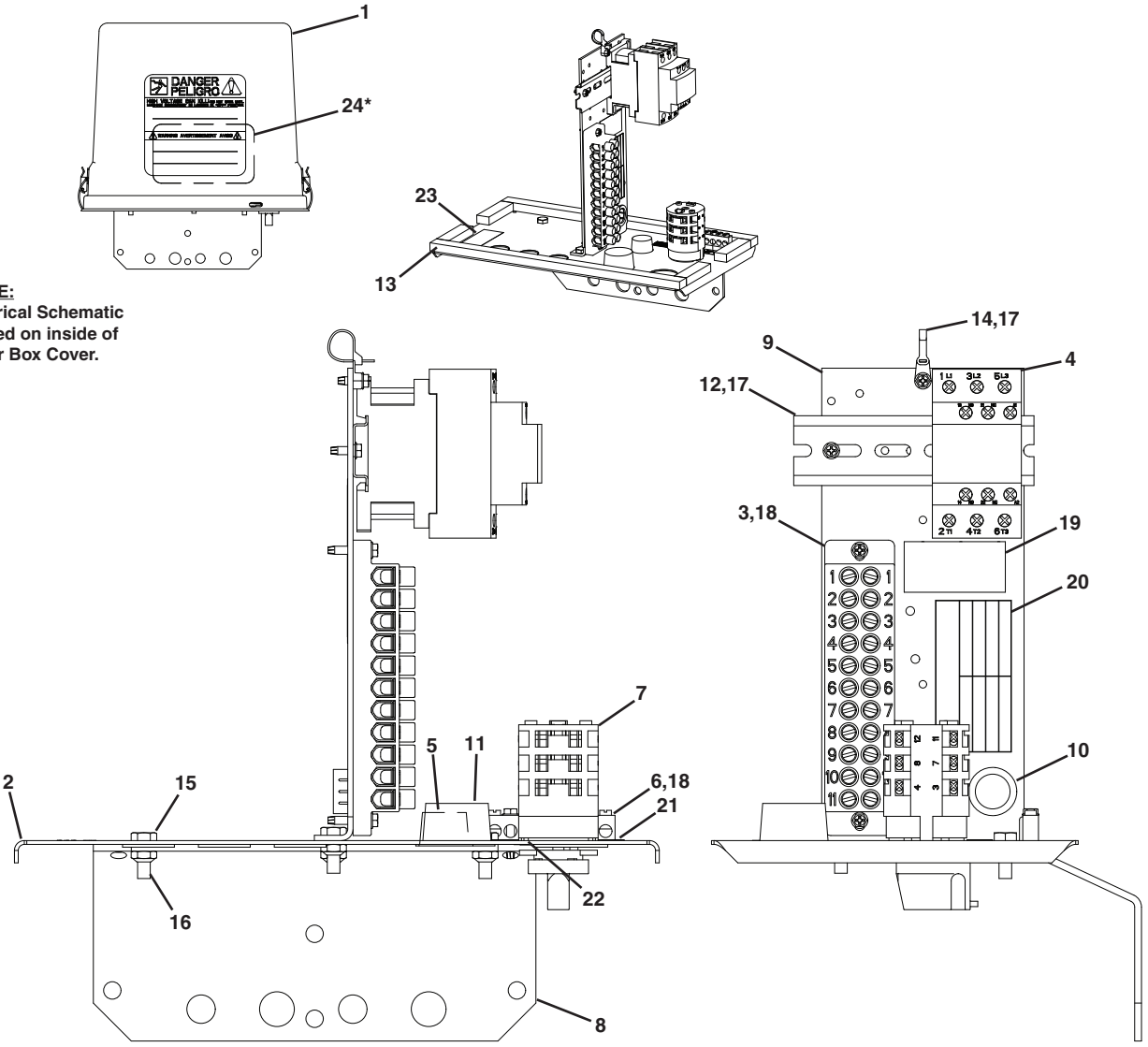
***NOTE:**
Electrical Schematic located on inside of Tower Box Cover.

SENSOR BEARING HARDWARE

ITEM	DESCRIPTION	PART #
1	Electric Tower Box Cover - UL	9311146
2	Harness Tie	0314793
3	Spring	0181046
	Spring - Long Center Pivot Box - OBSOLETED Dec 16	0181082
4	Adjustable Micro-Switch	03E0307
5	Insulator	1701632
6	3 Pole Contactor - 25A 120V (Boxed)	03E3785
7	Terminal Block	03E1899
8	Caplug #12	0261008
9	Grounding Lug	0315120
10	6-Pole Disconnect - Pre-Wired	03E1597
11	Mounting Plate	1702054
12	Switch Pivot Arm Assembly	1701262
13	Bottom Plate	1702055
14	Sensor Bearing Assembly w/Bushings	1703336
15	Caplug #15	0261010
16	Vertical Plate	1702053
17	Snap Bushing	0992070
18	Suppressor	03E3546
19	Sensor Bearing Bracket	1702294
20	Dinrail Mount Channel - 4.75"	9312033
21	Gasket Kit	0992071
22	3/16" x 1-1/4" Roll Pin	0111017
23	3/8" Nut	0131018
24	5/16" Hex Nut	0131019

ITEM	DESCRIPTION	PART #
25	3/8" Lock Nut	0133006
26	1/4" Lock Nut	0133008
27	#6 Hex Nut	0134027
28	#6 Flat Washer .049 x .156 x .375	0142074
29	Washer .030 x .510 x .968 - Stainless Steel	0143047
30	Washer .010 x .512 x .996 - Stainless Steel	0143066
31	3/8" x 1" Cap Screw	0161045
32	5/16" x 1" Cap Screw	0161052
33	1/4" x 3/4" Cap Screw	0161057
34	3/8" x 3-1/2" Long Cap Screw	0161150
35	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
36	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
37	#6 x 1-1/4" Machine Screw - Round Head	0164054
38	5/16" x 1" U-Bolt	0176049
39	Sensor Arm Washer	1701269
40	Decal - Disconnect	0992090
41	Decal - Ground	0992925
42	Decal - Power Supply	0994149
43	Decal - Terminal Block Torque Copper Wire	0998450
44	Decal - 3R Enclosure	0996403
45	Decal - Electrical Schematic	0997153
	Intermediate Tower Box Assm	1812442
	Intermediate Tower Box Assm. (Modified)	1811698

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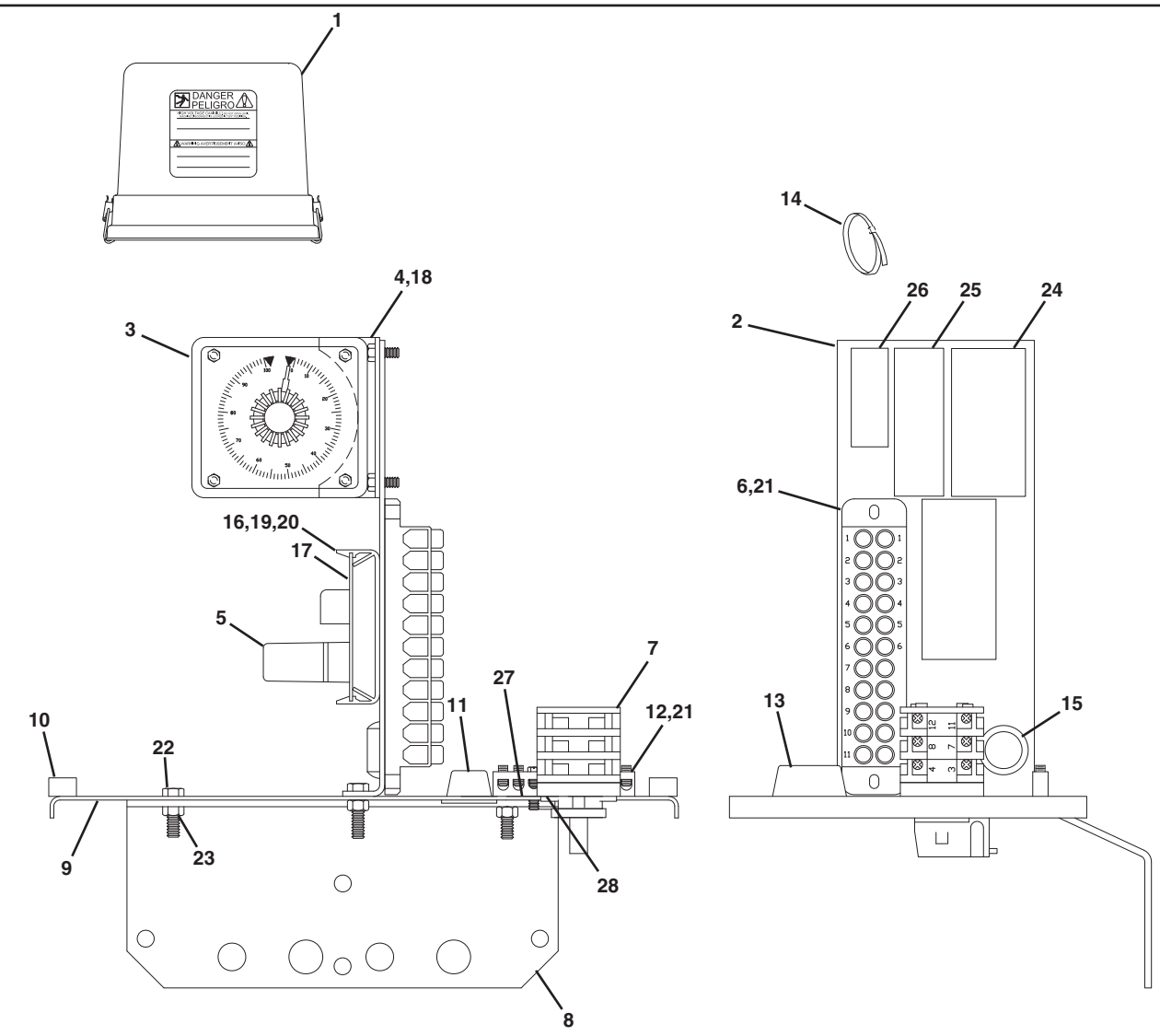


***NOTE:**
Electrical Schematic located on inside of Tower Box Cover.

ITEM	DESCRIPTION	PART #
1	Electric Tower Box Cover - UL	9311146
2	Bottom Plate	1702216
3	Terminal Block	03E1899
4	3 Pole Contactor - 25A 120V (Boxed)	03E3785
5	Caplug #12	0261008
6	Grounding Lug	0315120
7	Disconnect Switch	0315746
8	Mounting Plate	1702054
9	Vertical Plate	1702053
10	Snap Bushing	0992070
11	Caplug #15 (1 Req'd)	0261010
12	Din Rail Mount Channel - 4.75" Long	9312033
13	Gasket Kit	0992071

ITEM	DESCRIPTION	PART #
14	Harness Tie	0314793
15	1/4" x 3/4" Cap Screw	0161057
16	1/4" Lock Nut	0133008
17	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
18	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
19	Decal - Power Supply	0994149
20	Decal - Terminal Block Torque Copper Wire	0998450
21	Decal - Ground	0992925
22	Decal - Disconnect	0992090
23	Decal - 3R Enclosure	0996403
24	Decal - Electrical Schematic	0997152
	COMPLETE Last Tower Box Assm.	**1811363**

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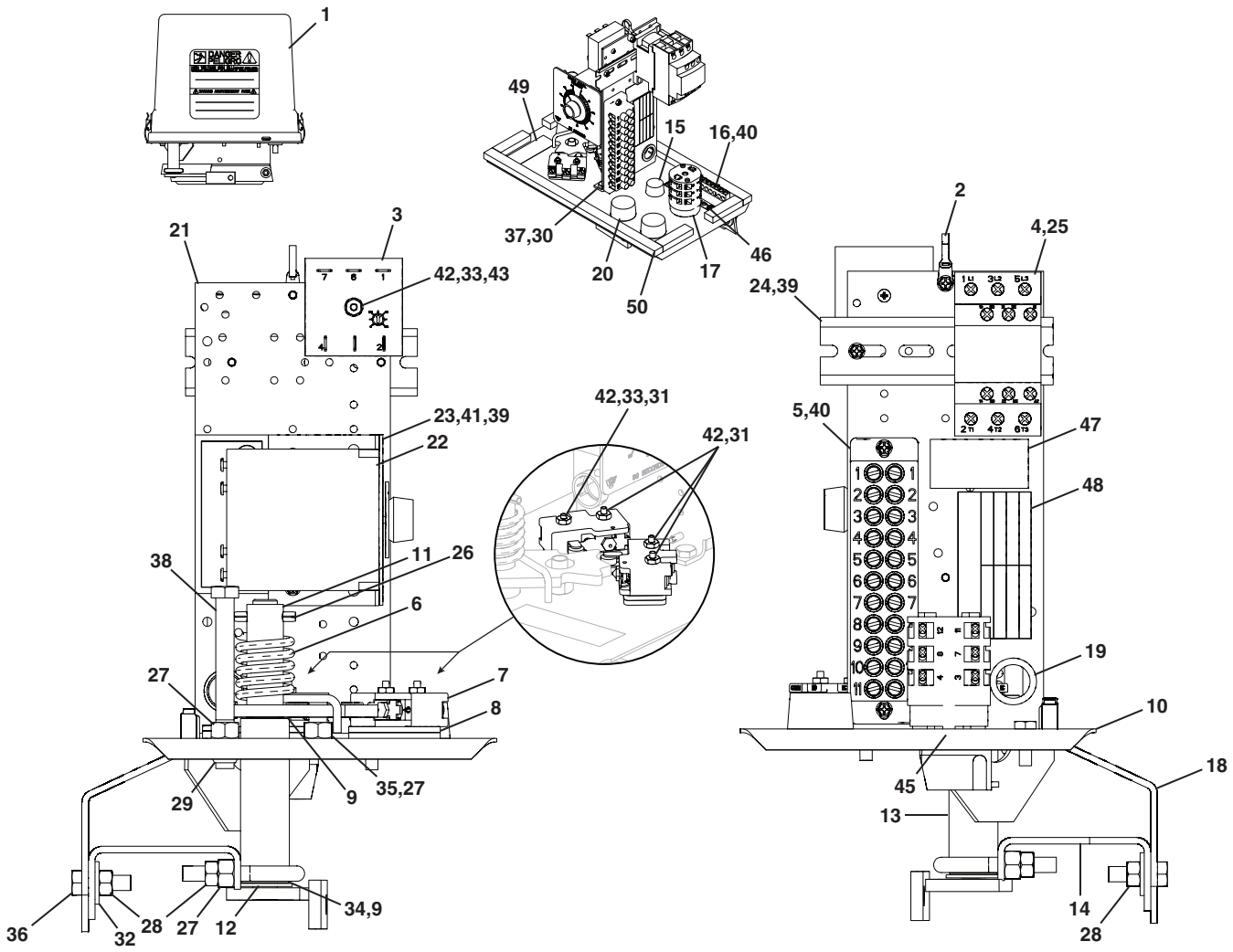


ITEM	DESCRIPTION	PART #
1	Electric Tower Box Cover - UL	9311146
2	Vertical Plate	1702053
3	Percent Timer	03E2035
4	Bracket	1750504
5	4 Pole Relay - 120V	0314610
6	Terminal Block	03E1899
7	Disconnect Switch	0315746
8	Mounting Plate	1702054
9	Bottom Plate	1702216
10	Gasket Kit	0992071
11	Caplug #12	0261008
12	Grounding Lug	0315120
13	Caplug #15	0261010
14	Harness Tie	0314225
15	Snap Bushing	0992070
16	Snaptrack Mounting Channel - 2"	0314833

ITEM	DESCRIPTION	PART #
17	Isolation Relay Board PCB	0314830
18	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
19	#8 x 1/2" Machine Screw - Round Head	0164042
20	#8 Hex Nut	0134023
21	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
22	1/4" x 3/4" Cap Screw	0161057
23	1/4" Lock Nut	0133008
24	Decal - Terminal Torque	0998450
25	Decal - 3R Enclosure	0996403
26	Decal - Circuit Supply UL	0994149
27	Decal - Ground	0992925
28	Decal - Dicsonnect	0992090
	Slowdown Timer Box Assm.	1811757

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Functional Area	Assembly / Part	Rev# 10-18
Electrical	Central Pulse Tower Box	

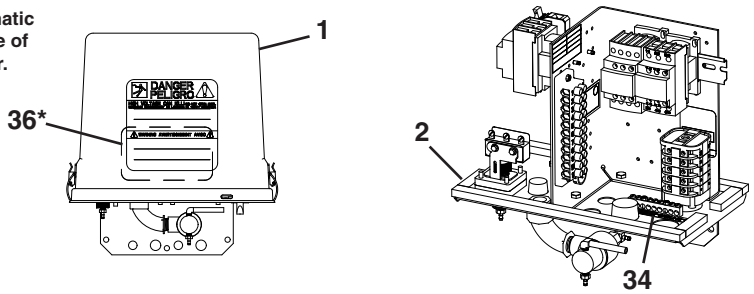


ITEM	DESCRIPTION	PART #
1	Electric Tower Box Cover - UL	9311146
2	Harness Tie	0314793
3	Overwatering Delay Timer	03E3232
4	3 Pole Contactor - 25A 120V (Boxed)	03E3785
5	Terminal Block	03E1899
6	Spring	0181046
7	Micro Switch	03E0307
8	Insulator	1701632
9	Washer .030 x .510 x .968 - Stainless Steel	0143047
10	Bottom Plate	1702055
11	Switch Pivot Arm Assembly	1701262
12	Washer - Plastic	1701269
13	Sensor Bearing Assembly w/Bushings	1703336
14	Sensor Bearing Bracket	1702294
15	Caplug #12	0261008
16	Grounding Lug	0315120
17	6-Pole Disconnect - Pre-Wired	03E1597
18	Mounting Plate	1702054
19	Snap Bushing	0992070
20	Caplug #15 (2 Req'd)	0261010
21	Vertical Plate	1702053
22	Percent Timer	03E2695
23	Percent Timer Bracket	1750504
24	Din Rail Mount Channel - 4.75" Long	9312033
25	Suppressor	03E3546
26	3/16" x 1-1/4" Roll Pin	0111017

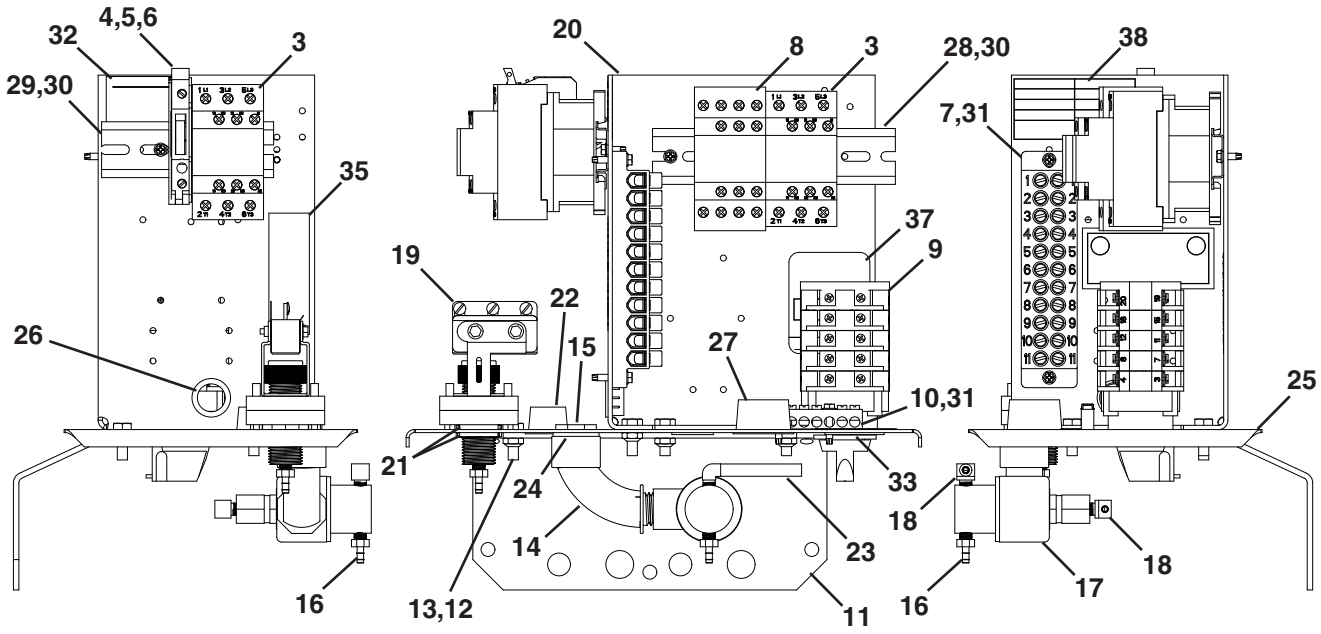
ITEM	DESCRIPTION	PART #
27	3/8" Hex Nut	0131018
28	5/16" Hex Nut	0131019
29	3/8" Lock Nut	0133006
30	1/4" Lock Nut	0133008
31	#6 Hex Nut	0134027
32	5/16" Flat Washer	0142017
33	#6 Flat Washer	0142074
34	Washer .010 x .512 x .996 - Stainless Steel	0143066
35	3/8" x 1" Cap Screw	0161045
36	5/16" x 1" Cap Screw	0161052
37	1/4" x 3/4" Cap Screw	0161057
38	3/8" x 3-1/2" Long Cap Screw	0161150
39	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
40	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
41	#8 Hex Nut w/External Tooth Washer	0134059
42	#6 x 1-1/4" Phillips Head Screw - Round Head	0164054
43	#6 Hex Nut w/External Tooth Washer	0134058
44	U-Bolt - 5/16" x 1" x 2-3/16"	0176049
45	Decal - Disconnect	0992090
46	Decal - Ground	0992925
47	Decal - UL Power Supply	0994149
48	Decal - Terminal Block Torque Copper Wire	0998450
49	Decal - 3R Enclosure	0996403
50	Decal - Gasket Kit	0992071
	Central Pulse Tower Box Assm	1811432

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***NOTE:**
Electrical Schematic located on inside of Tower Box Cover.



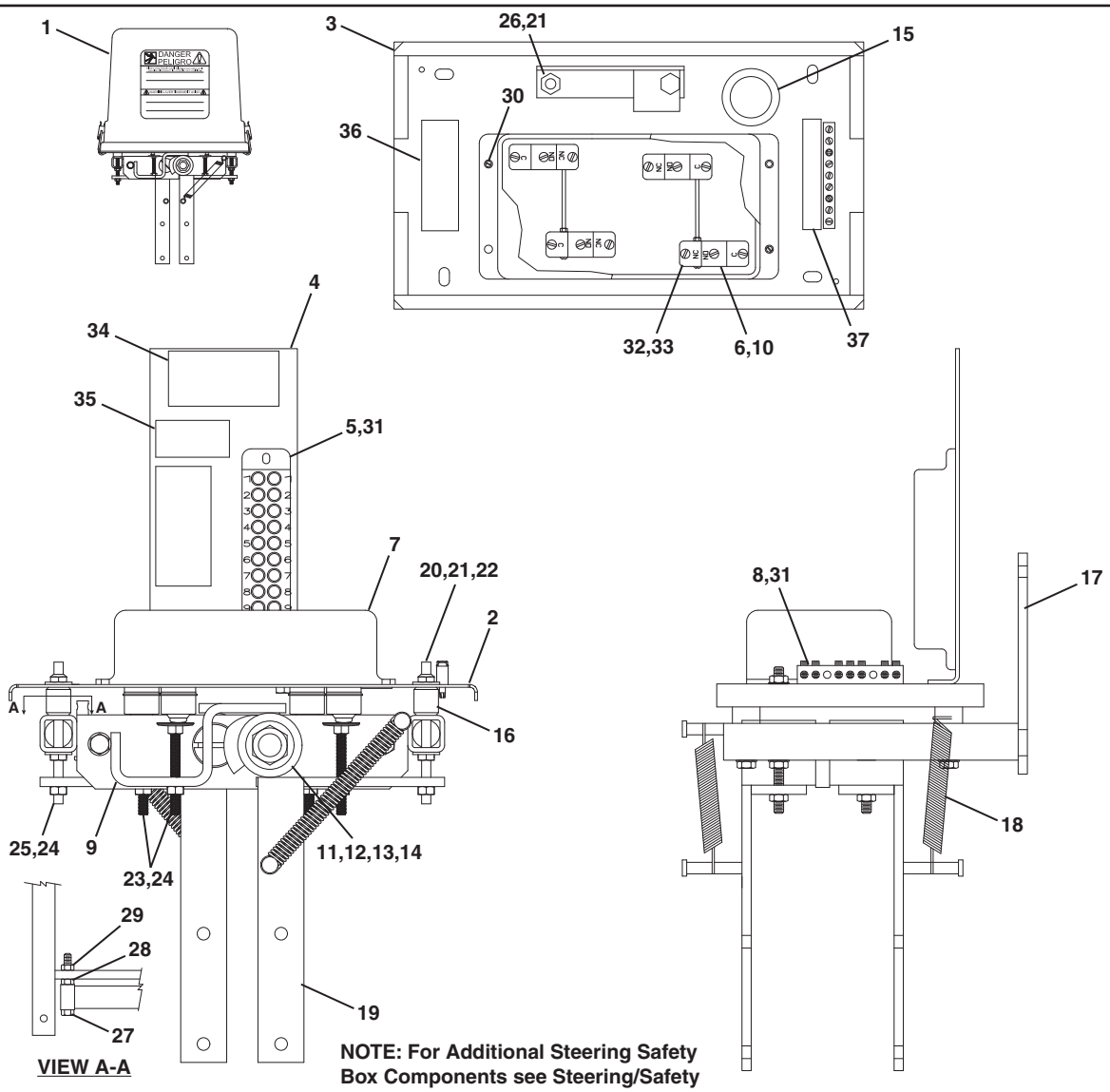
ELECTRICAL FUSING NOTE:
5 H.P. & 7.5 H.P. Booster Pumps require one KA00763 Fusing Kit per Drive Unit & one KA00233 per Corner System.



ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Gasket Kit	0992071
3	3 Pole Contactor - 25A 120V (Boxed)	03E3785
4	Fuse - 1.5A	0314858
5	Fuse Block - Din Rail Mount	03E2997
6	Fuse Block Cover	03E2998
7	Terminal Block, 600V	03E1899
8	4 Pole Contactor - 40A 120V	03E3542
9	Disconnect Switch	0314540
10	Grounding Lug	0315120
11	Mounting Plate	1702054
12	1/4" Lock Nut	0133008
13	1/4" x 3/4" Cap Screw	0161057
14	1/2" Bushed Elbow	0241057
15	1/2" Conduit Nipple - Rigid	0244037
16	1/4" MFL Connector - Tube to Male Pipe	0232362
17	Solenoid Valve w/Coil - 120V 60 Cycle NO	0232452
18	Elbow Fitting - Tube to Male Pipe	0232361
19	Pressure Switch	0315994
20	Plate - Booster Pump Control	1702392

ITEM	DESCRIPTION	PART #
21	1/2" Romax Nut	0314160
22	Caplug #12	0261008
23	Nylon Tubing - .304 O.D. x 500'	0272050
24	Flat Washer (OPTIONAL)	0142075
25	Bottom Plate	1702391
26	Snap Bushing	0992070
27	Caplug #15x	0261010
28	Din Rail Mount Channel - 6.00" Long	9310608
29	Din Rail Mount Channel - 4.25" Long	9312350
30	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
31	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
32	Decal - End Gun Fuse, 1.5A	03E1500
33	Decal - Disconnect	0992090
34	Decal - Ground	0992925
35	Decal - 3R Enclosure	0996403
36	Decal - Electrical Schematic	0997151
37	Decal - Electrical Specifications	0997164
38	Decal - Terminal Block Torque Copper Wire	0998450
	Booster Pump Box Assm.	1811602

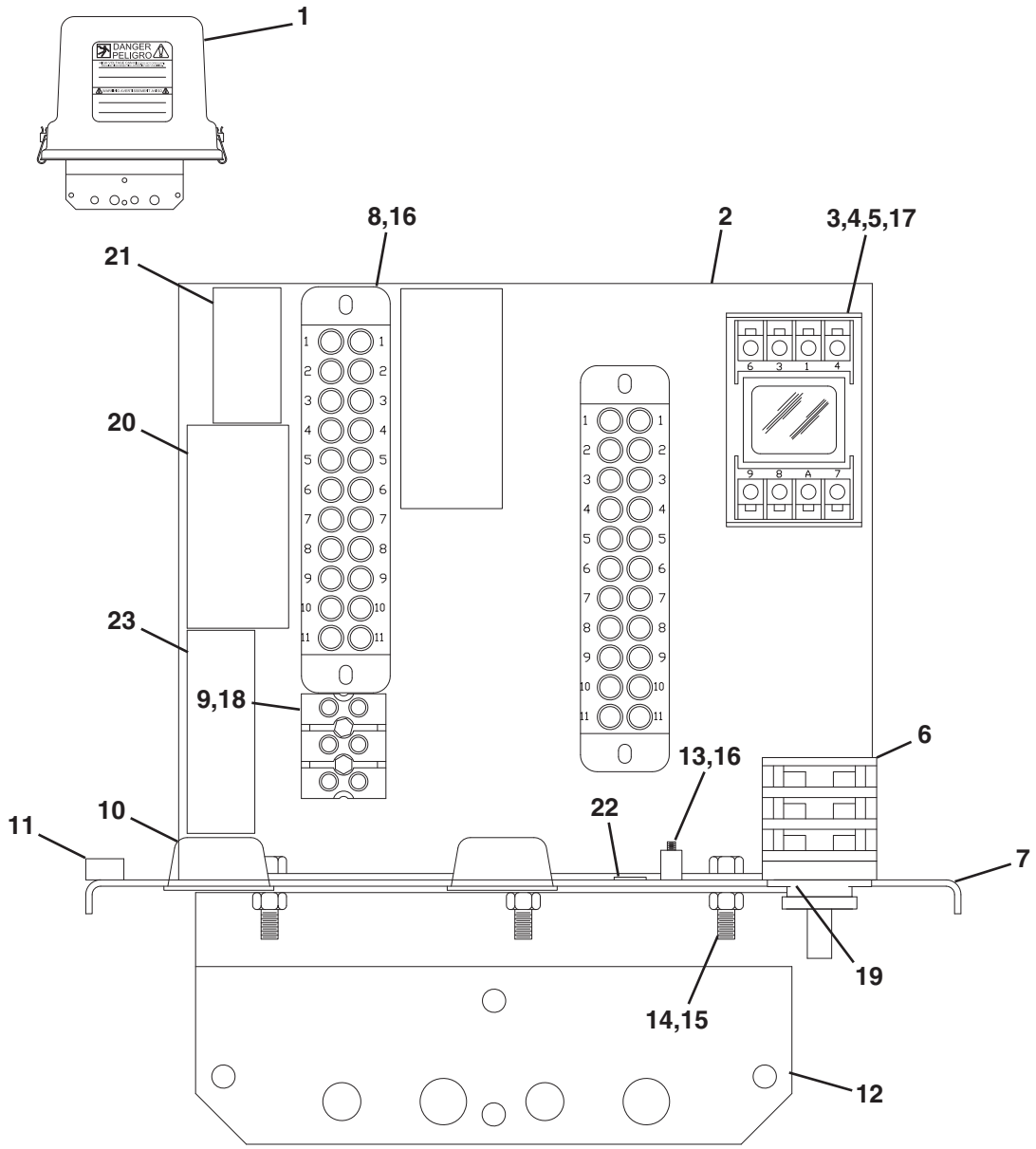
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NOTE: For Additional Steering Safety Box Components see Steering/Safety Box Pg. in Guidance Section.

ITEM	DESCRIPTION	PART #
1	Electrical Tower Box Cover - UL	9311146
2	Bottom Plate	1730729
3	Gasket Kit	0992071
4	Vertical Plate	1702053
5	Terminal Block	03E1899
6	Overtravel Plunger Switch w/o Roller	03E2031
7	Switch Shield	0992550
8	Grounding Lug	0315120
9	Paddle Safety Switch Assm.	1731351
10	Boot w/Spring Assm.	03E2032
11	Spacer Bushing	1730537
12	5/8" x 3" Screw - Flat Head	0164138
13	5/8" Flat Washer	0142034
14	5/8" Jam Nut	0134044
15	15X Caplug	0261010
16	Sleeve Spacer	1730727
17	Guidance Box Mounting Bracket Assm.	1730711
18	Spring	0181089
19	Control Arm Sub Assm.	1731464
20	1/4" x 2-1/2" Cap Screw	0161054
21	1/4" Lock Nut	0133008
22	1/4" Flat Washer	0142022
23	1/4" x 2-1/2" Elevator Bolt	0164219
24	1/4" Hex Nut	0131020
25	1/4" x 1-1/4" Cap Screw - Full Thread	0161392
26	1/4" x 1/2" Cap Screw	0161059
27	5/16" x 2-1/2" Cap Screw	0161123
28	5/16" Hex Nut	0131019
29	5/16" Lock Nut	0133007
30	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
31	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
32	#6 x 2-3/4" Machine Screw - Round Head.	0164133
33	#6 Hex Nut	0134027
34	Decal - Terminal Torque	0998450
35	Decal - UL Circuit Supply	0994147
36	Decal - 3R Enclosure	0996403
37	Decal - Ground	0992925
	Steering/Safety Box Assy. (Prior to'87)	1811640
	Steering/Safety Box Assy. (Eff. '89)	1812244
	Repair Pkg. for Steering/Safety Switch w/o Roller	0000D99

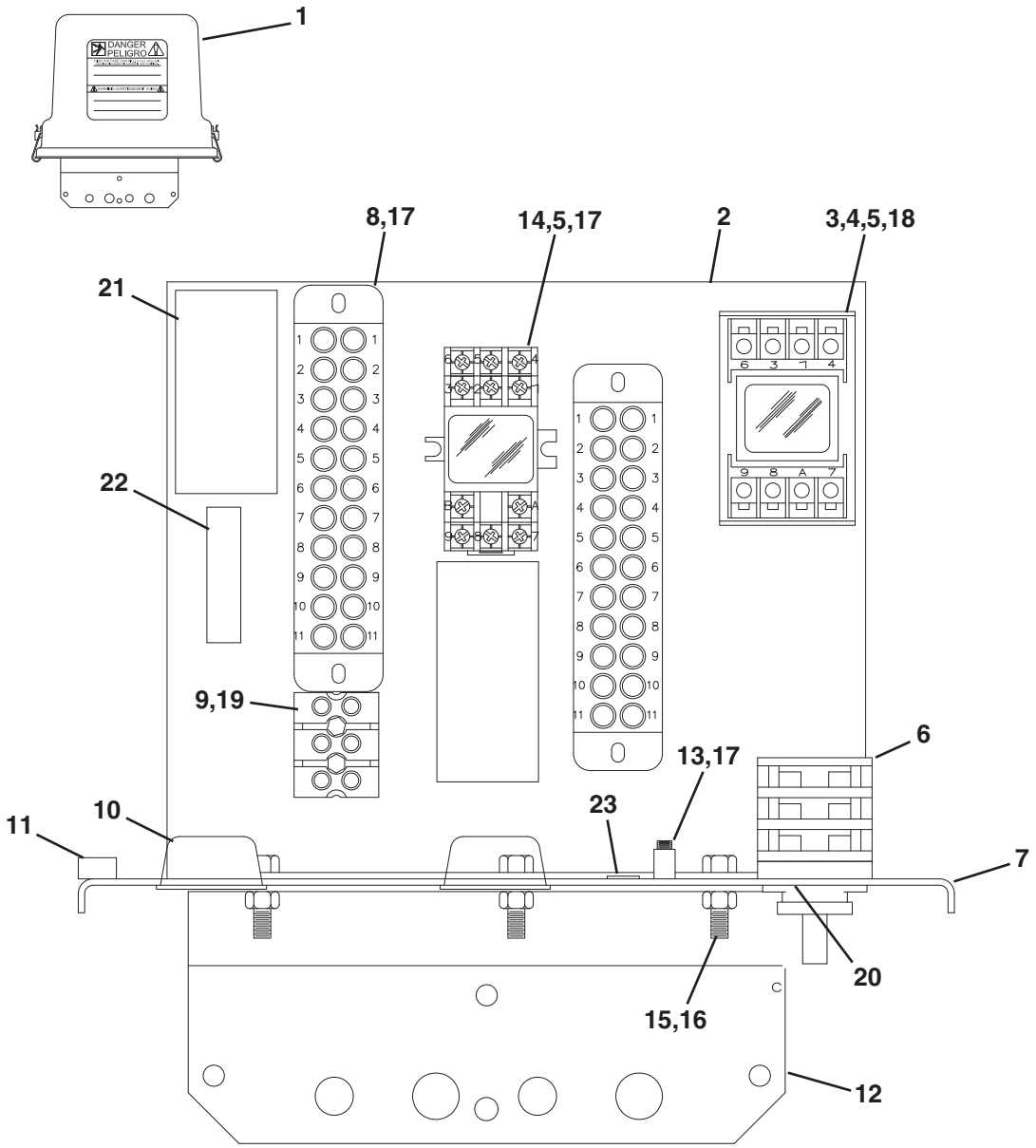
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ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Mounting Plate	1702364
3	Snaptrack	0314833
4	Relay Socket	0315688
5	Relay	0314936
6	Disconnect Switch	0315746
7	Bottom Plate	1703024
8	Terminal Block	03E1899
9	Terminal Strip	0315121
10	Caplug #15 (4 Req'd)	0261010
11	Gasket Kit	0992071
12	Mounting Plate	1702054
13	Grounding Lug	0315120

ITEM	DESCRIPTION	PART #
14	1/4" x 3/4" Cap Screw	0161057
15	1/4" Lock Nut	0133008
16	#8 x 7/8 Self-Tapping Screw - Phillips Head	0161356
17	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
18	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
19	Decal - Disconnect	0992090
20	Decal - Terminal Block Torque Copper Wire	0998450
21	Decal - UL Circuit Supply	0994147
22	Decal - Ground	0992925
23	Decal - 3R Enclosure	0996403
	Furrow GuidanceTower Box Assm.	1812050

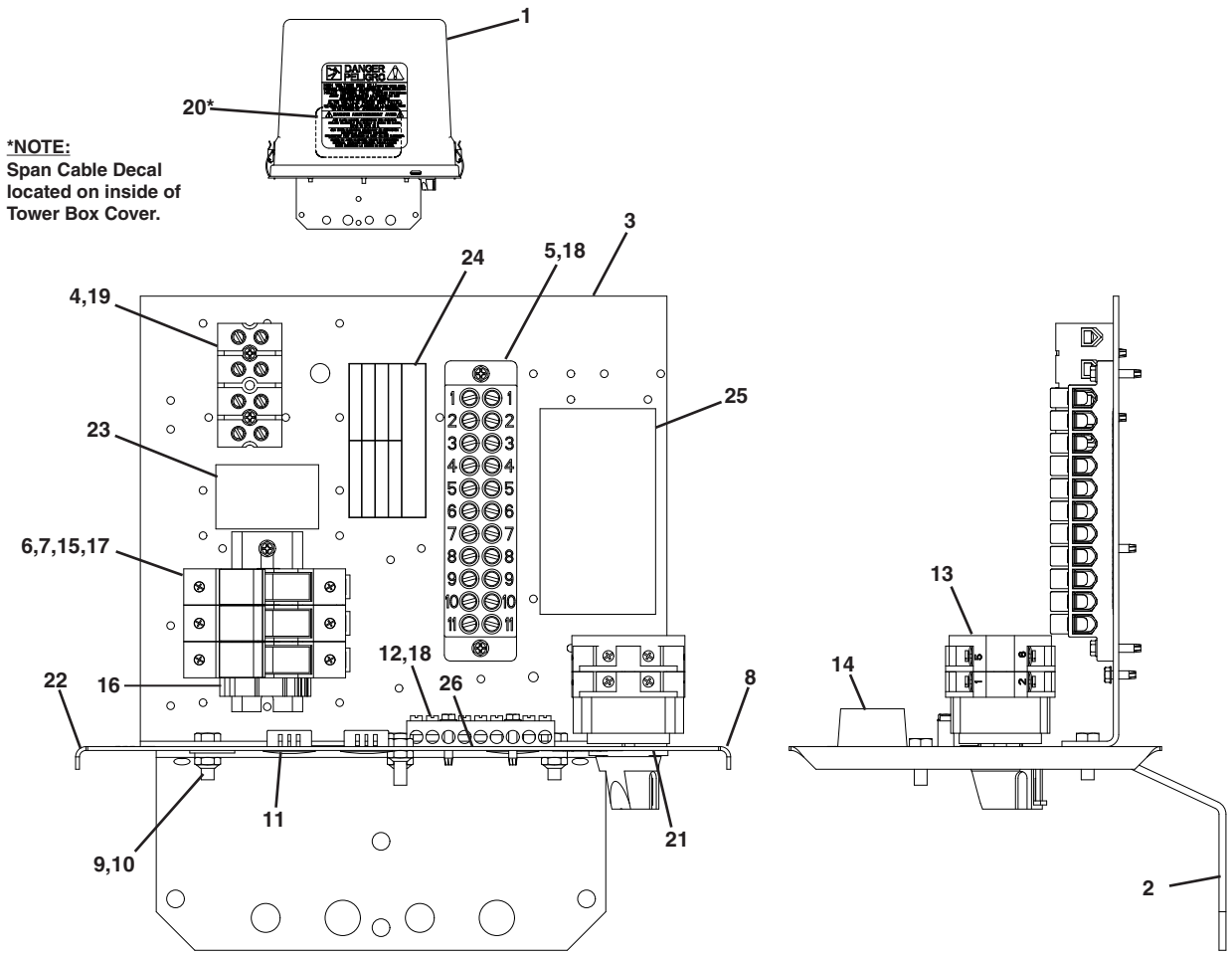
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ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Mounting Plate	1702364
3	Snaptrack	0314833
4	Relay Socket	0315688
5	Relay	0314936
6	Disconnect Switch	0315746
7	Bottom Plate	1703024
8	Terminal Block	03E1899
9	Terminal Strip	0315121
10	Caplug #15 (4 Req'd)	0261010
11	Gasket Kit	0992071
12	Mounting Plate	1702054
13	Grounding Lug	0315120

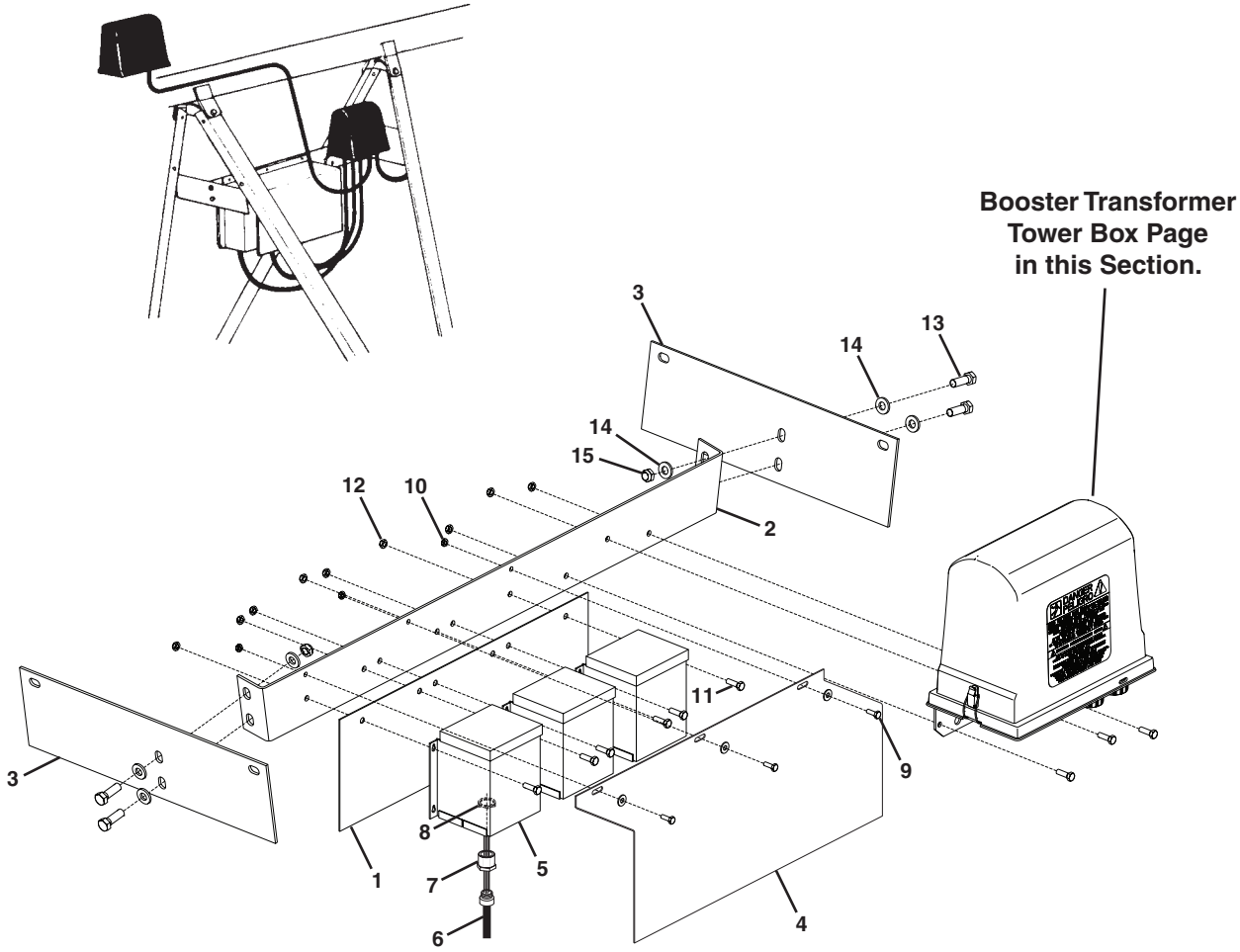
ITEM	DESCRIPTION	PART #
14	Relay Socket	03E1650
15	1/4" x 3/4" Cap Screw	0161057
16	1/4" Lock Nut	0133008
17	#8 x 7/8 Self-Tapping Screw - Phillips Head	0161356
18	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
19	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
20	Decal - Disconnect	0992090
21	Decal - Terminal Block Torque Copper Wire	0998450
22	Decal - UL Circuit Supply	0994147
23	Decal - Ground	0992925
	Furrow Guidance Swing Around Twr. Box Assm.	1812903

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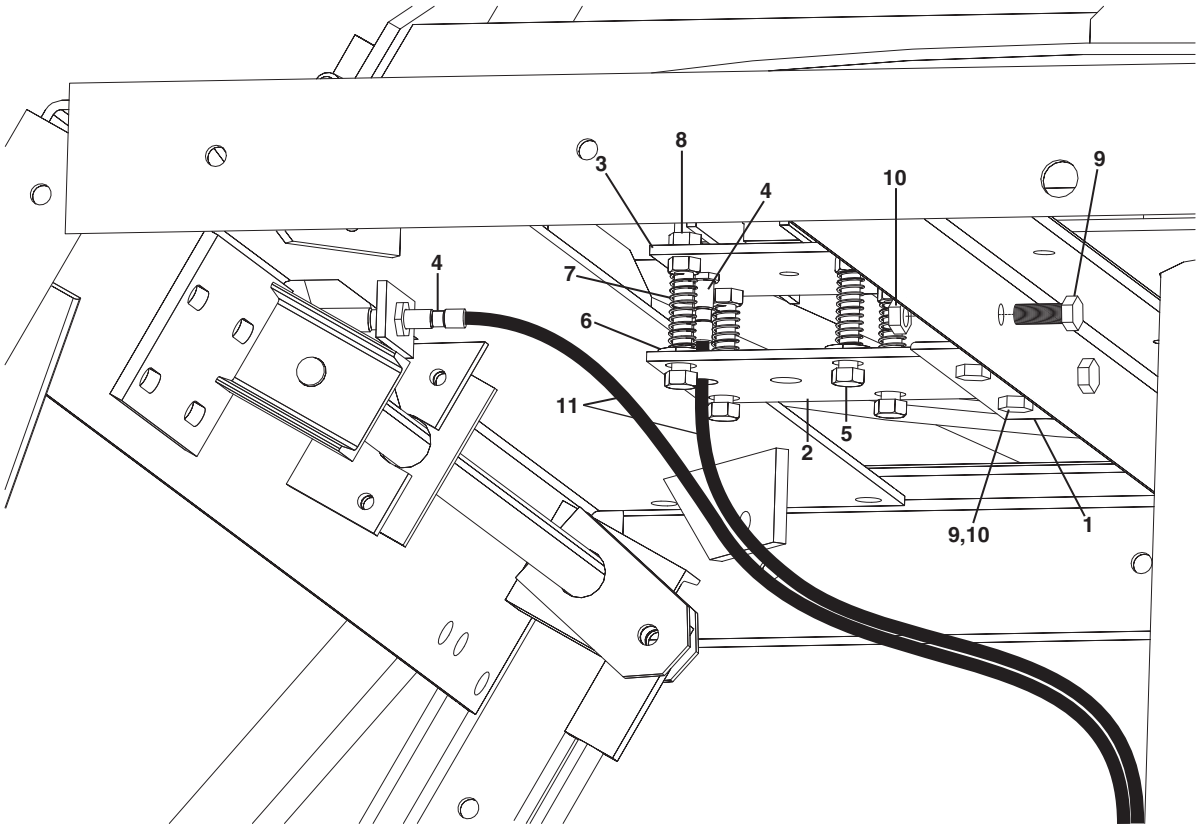
ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Mounting Plate	1702054
3	Vertical Plate	1702364
4	Terminal Block	0315571
5	Terminal Block	03E1899
6	Fuse Block - 3 Pole	03E3443
7	30 Amp, 600 Volt Fuse	03E1738
8	Bottom Plate	1703644
9	1/4" x 3/4" Cap Screw	0161057
10	1/4" Lock Nut	0133008
11	Snap Button Plug (3 Req'd)	03E2166
12	Grounding Lug	0315120
13	Disconnect Switch	03E0338
14	Caplug #15 (2 Req'd)	0261010
15	Din Rail - 3.50" Long	9311122
16	Din Rail End Stop	03E2996
17	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
18	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
19	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
20	Decal - Span Cable Transition/Booster Transformer Fuse	0997274
21	Decal - Disconnect	0992090
22	Decal - 3R Enclosure	0996403
23	Decal - Tower Box Fuse Size	03E1648
24	Decal - Terminal Torque Copper Wire	0998450
25	Decal - 30 Amp Industrial Control Panel Specs.	0998351
26	Decal - Ground	0992925
27	Casket Kit (Not Shown)	0992071
	Transformer Control Tower Box Assm.	1811700

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ITEM	DESCRIPTION	PART #
1	Transformer Back Cover	1702588
2	Transformer Mounting Bracket	1702590
3	Transformer Side Mount Bracket	1702589
4	Transformer Front Cover	1702587
5	500 VA Transformer	03E2175
6	Transformer Raceway Cable	1811703
7	3/4" x 1/2" Reducer	0244029
8	3/4" NPT Romax Lock Nut	0315132
9	1/4" x 3/4" Hex Head Cap Screw	0161057
10	1/4" Lock Nut	0133008
11	5/16" x 1" Cap Screw	0161052
12	5/16" Lock Nut	0133007
13	1/2" x 1-1/2" Cap Screw	0161026
14	1/2" Flat Washer	0142025
15	1/2" Lock Nut	0133005

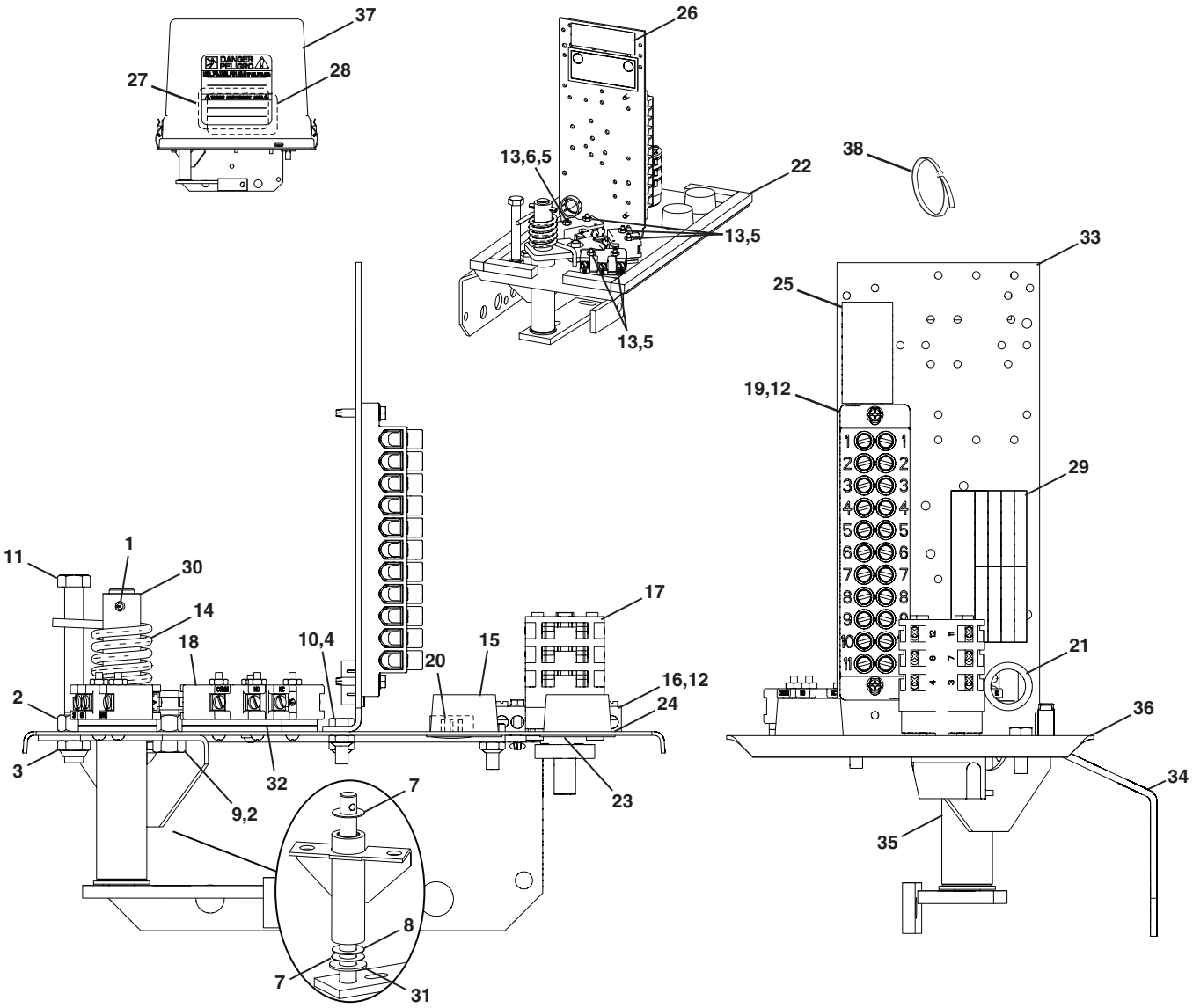
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ITEM	DESCRIPTION	PART #
1	Proximity Mount Angle	9363218
2	Proximity Base Plate	9363224
3	Proximity Mount Assm.	9363246
4	Proximity Switch	03E2176
5	1/2" x 3-1/2" Cap Screw	0161060
6	1/2" Flat Washer	0142025
7	E.G.S.O. Spring	0181085
8	1/2" Hex Nut	0131015
9	1/2" x 1-1/4" Cap Screw	0161027
10	1/2" Lock Nut	0133005
11	Proximity Cable UL - 9m Long	03E2191

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Functional Area	Assembly / Part	Rev# 12-17
Electrical	Side Load Safety Sensor Box	

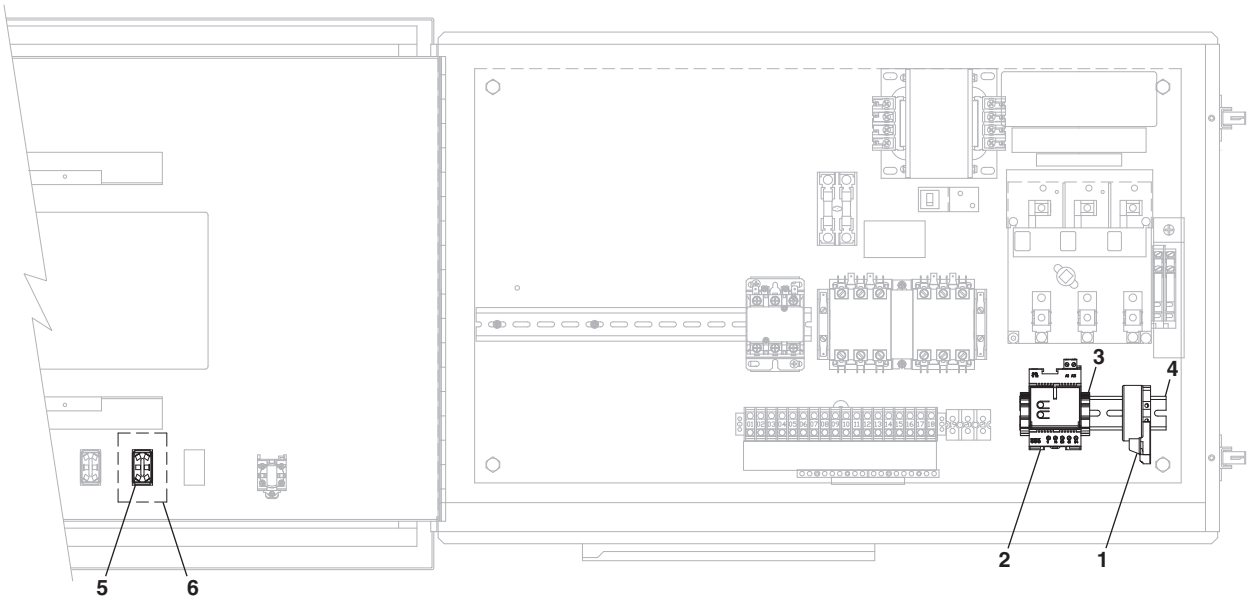


SENSOR BEARING WASHERS

ITEM	DESCRIPTION	PART #
1	3/16" x 1-1/4" Roll Pin	0111017
2	3/8" Hex Nut	0131018
3	3/8" Lock Nut	0133006
4	1/4" Lock Nut	0133008
5	#6 Hex Nut	0134027
6	#6" Flat Washer	0142074
7	Flat Washer .030 x .510 x .968 - Stainless Steel	0143047
8	Flat Washer .010 x .512 x .996 - Stainless Steel	0143066
9	3/8" x 1" Cap Screw	0161045
10	1/4" x 3/4" Cap Screw	0161057
11	3/8" x 3-1/2" Long Cap Screw	0161150
12	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
13	#6 x 1-1/4" Machine Screw - Round Head	0164054
14	Spring	0181046
15	Caplug 15X	0261010
16	Ground Lug	0315120
17	Disconnect Switch	0315746
18	Micro Switch - Minimum Travel	03E0307
19	Terminal Block	03E1899
20	Snap Button Hole Plug	03E2166

ITEM	DESCRIPTION	PART #
21	Snap Bushing	0992070
22	Gasket Kit	0992071
23	Decal - Disconnect	0992090
24	Decal - Ground	0992925
25	Decal - UL Circuit Supply	0994147
26	Decal - 3R Enclosure	0996403
27	Decal - Field Wiring	0997627
28	Decal - Field Adjustment	0997628
29	Decal - Terminal Block Torque Copper Wire	0998450
30	Switch Pivot Arm Assembly	1701262
31	Sensor Arm Washer	1701269
32	Sensor Base Insulator	1701632
33	Vertical Bracket	1702053
34	Mounting Plate	1702054
35	Sensor Bearing Assembly w/Bushings	1703336
36	Bottom Plate w/3 Microswitches	1703823
37	Electric Tower Box Cover - UL	9311146
38	Wire Tie	0314225
	Side Load Sensor Box Assm	1814706

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ITEM	DESCRIPTION	PART #
1	Ground Fault Sensor	03E3109
2	Ground Fault Relay	03E3110
3	Din Rail End Stop	03E2996
4	Din Rail Mount - 5" Long	9310693
5	Illuminated Rocker Switch	03E3116
6	Ground Fault Reset/Test Switch Decal - OBSOLETED Apr 2017	0998099

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