UNIVERSAL LINEAR
PARTS MANUAL

AD12175

Revised:03/20/19

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UNIVERSAL LINEAR PARTS MANUAL

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UNIVERSAL LINEAR PARTS MANUAL

UNIVERSAL LINEAR
w/ 8-5/8" Pivot Point

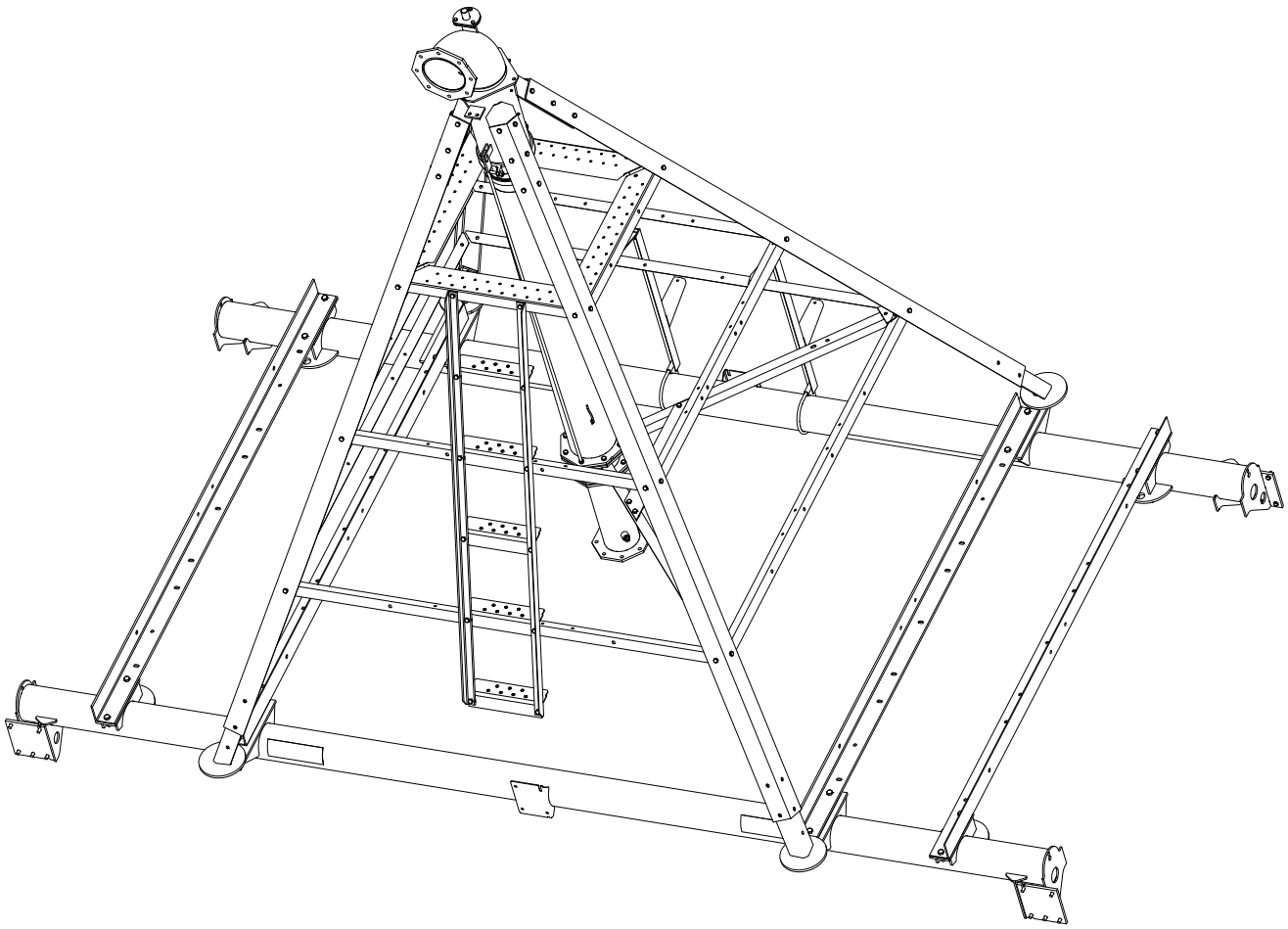
Effective 8/13

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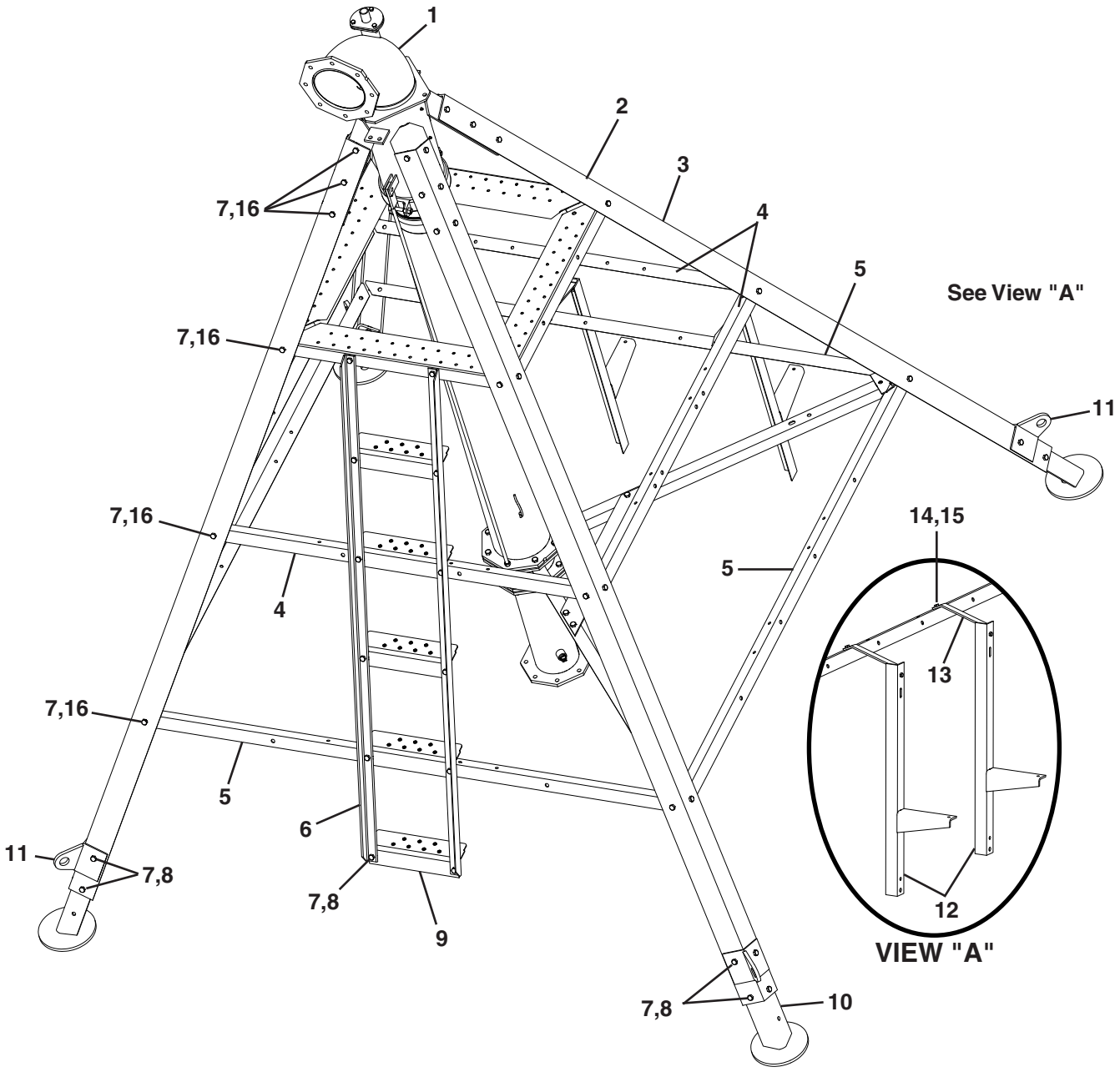
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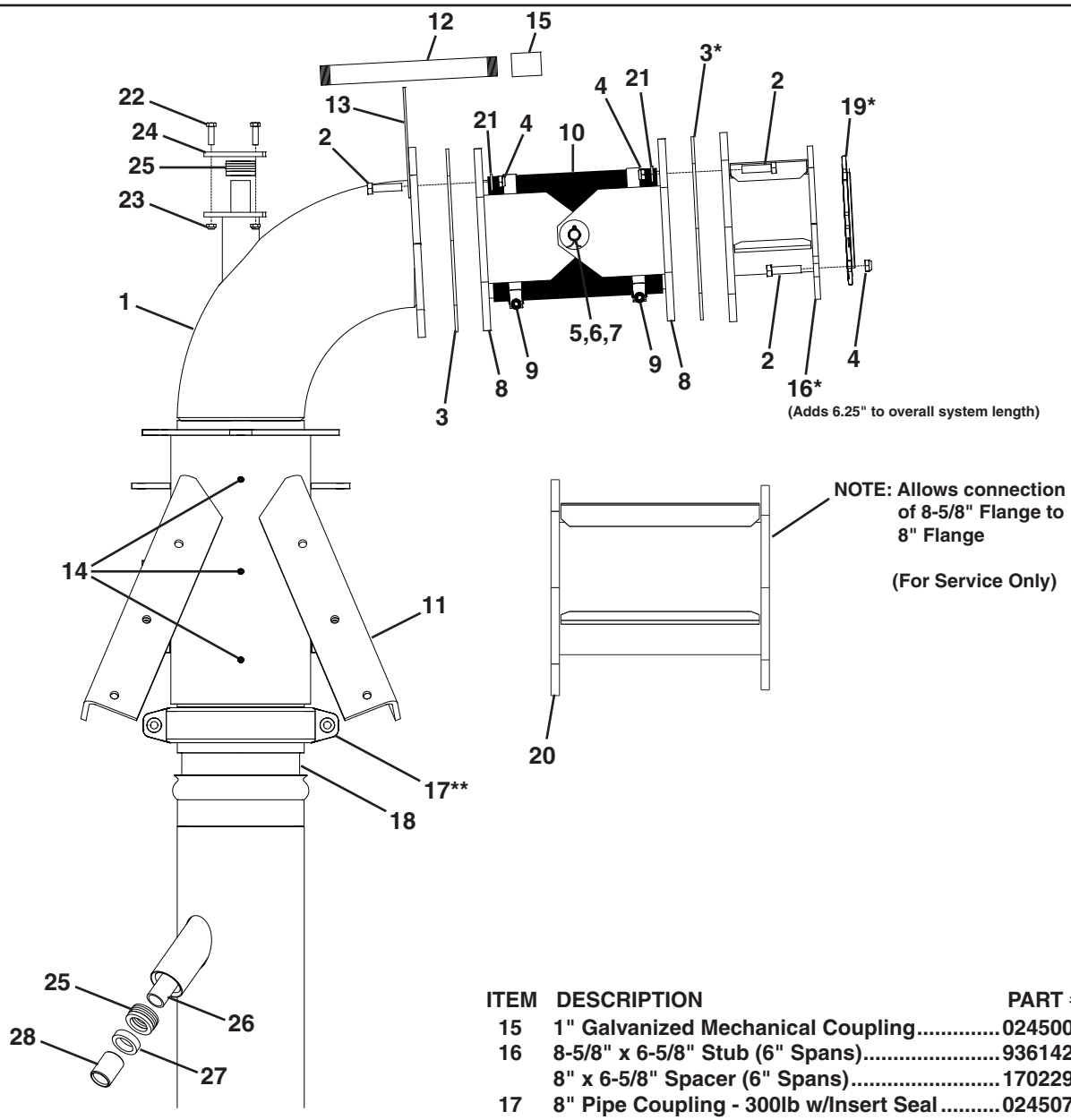
Functional Area	Assembly / Part	Rev# 07-13
Pivot Assembly	8000 Pivot	



ITEM	DESCRIPTION	PART #
1	Pivot Swivel Assembly - 8-5/8" Flange	9361392
2	Upper Pivot Brace	9361386
	Upper Pivot Brace Platform (Optional)	9361548
3	Pivot Leg	9361382
4	Middle Pivot Brace	9361385
5	Bottom Pivot Brace	9361383
6	Ladder Side 82-1/2"	1781354
7	1/2" Lock Nut	0133005
8	1/2" x 1-1/4" Cap Screw	0161027

ITEM	DESCRIPTION	PART #
9	Ladder Step 15"	1781371
10	Pivot Foot Assembly	1704017
11	Attaching Ear Saddle	9361448
12	Control Panel Mounting Bracket	9360794
13	Mounting Bracket	9364324
14	3/8" x 1" Cap Screw	0161045
15	3/8" Lock Nut	0133006
16	1/2" x 1-1/2" Cap Screw	0161026

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ITEM	DESCRIPTION	PART #
1	8-5/8" Swivel Assembly - w/8-58" Flange)	9361392
	8-5/8" Swivel Assm-w/8-5/8" Flange)(Black)	9361418
	8-5/8" Swivel Assembly - w/8" Flange)	9361420
	8-5/8" Swivel Assm-w/8" Flange)(Black)	9361443
2	1/2" x 2" Cap Screw	0161024
3	8-5/8" Gasket - Flat Rubber (Universal)	0996566
4	1/2" Lock Nut	0133005
5	3/4" x 2" Pin	0112037
6	3/4" Flat Washer	0142021
7	1/8" x 1-1/2" Stainless Steel Cotter Pin	0151010
8	Pivot Flex Assembly - 8" & 8-5/8"	9361768
9	8" Flex Joint Clamp	0991147
10	8" Hose	1780265
11	8-5/8" Pivot Bearing	9361394
12	1" x 12" Nipple	0211009
13	Conduit Guide Plate for 8-5/8" Flange	1702429
14	Grease Zerk	0991051

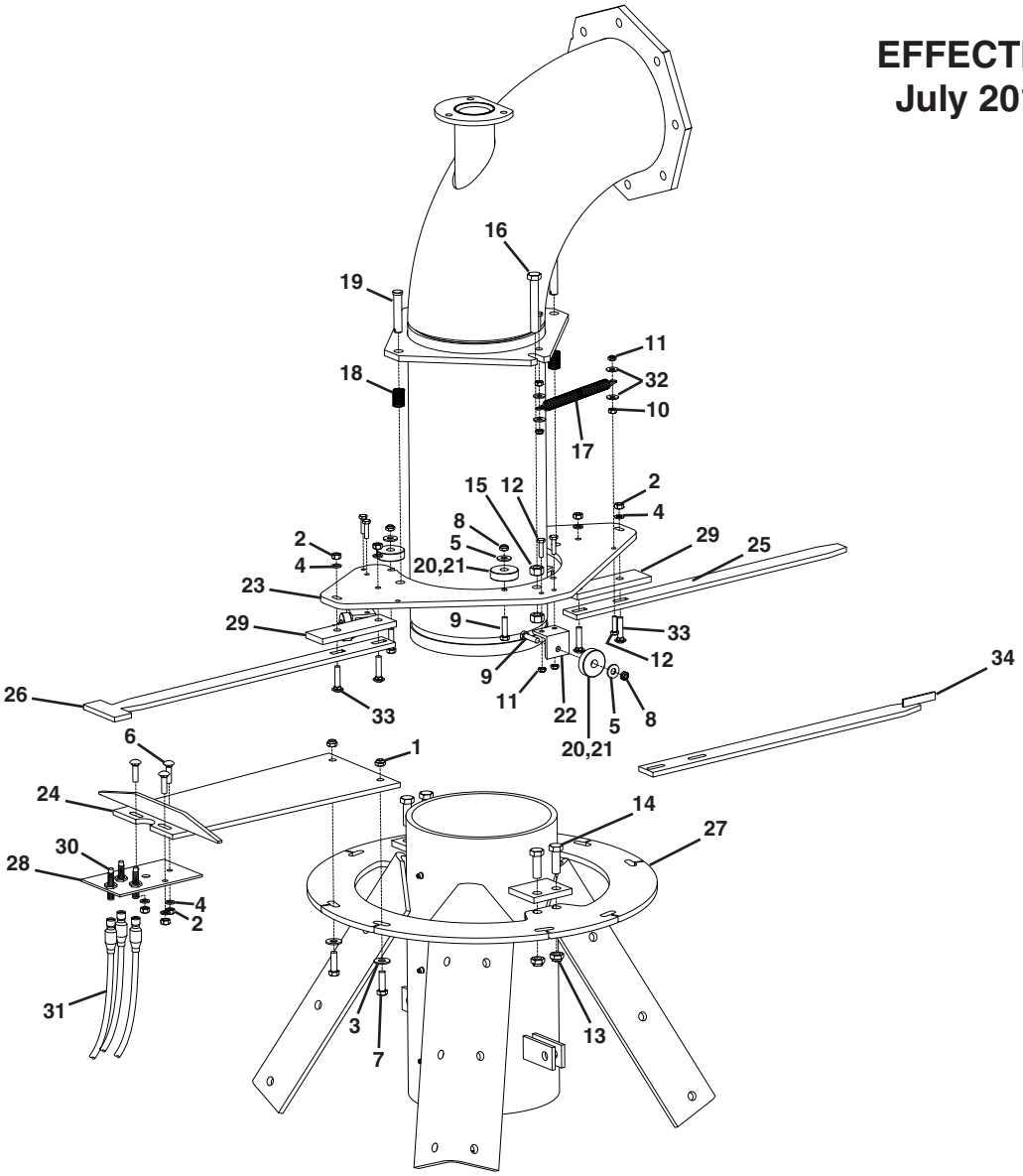
ITEM	DESCRIPTION	PART #
15	1" Galvanized Mechanical Coupling	0245003
16	8-5/8" x 6-5/8" Stub (6" Spans)	9361429
	8" x 6-5/8" Spacer (6" Spans)	1702299
17	8" Pipe Coupling - 300lb w/Insert Seal	0245073
18	8" Riser Nipple - Stainless Steel	9361575
	8" Riser Nipple - Xenoy	9363151
19	6-5/8" Gasket	0991107
20	8" to 8-5/8" Stub (Adds 13" to overall system length)	9361466
21	1/2" Flat Washer	0142025
22	3/8" x 1-1/4" Cap Screw	0161153
23	3/8" Lock Nut	0133006
24	1.38" I.D. Receiver Flange	1781353
25	V-Packing	0254004
26	Collector Ring Support Pipe	9361379
27	Retainer Bushing 1.50" I.D.	1781640
28	1" Coupling	0245061
	8" & 8-5/8" Pivot Flex Assm. Service Pkg	0000C23

* Required with 6" First Pipe.

** 8" Gruvlok Gasket shipped w/item 17 is service part only 0221035

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EFFECTIVE
July 2017

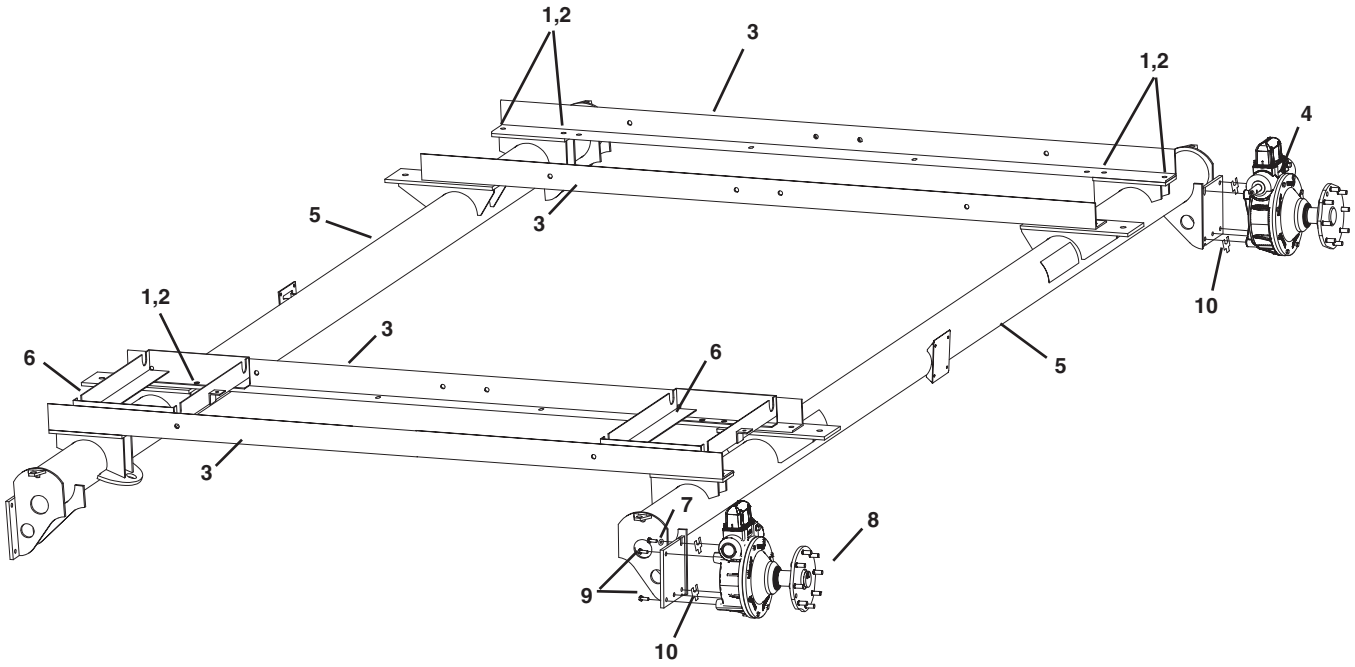


ITEM	DESCRIPTION	PART #
1	3/8" Lock Nut	0133006
2	5/16" Hex Nut	0131019
3	3/8" Flat Washer	0142031
4	5/16" Lock Washer	0141008
5	5/16" Flat Washer	0142017
6	5/16" x 1-1/4" Carriage Bolt	0175013
7	3/8"x1-1/4" Cap Screw	0161153
8	5/16" Lock Nut	0133007
9	5/16" x 1-1/4" Cap Screw	0161051
10	1/4" Hex Nut	0131020
11	1/4" Lock Nut	0133008
12	1/4" x 1" Cap Screw	0161056
13	1/2" Lock Nut	0133005
14	1/2" x 1-1/2" Cap Screw	0161026
15	1/2" Hex Nut	0131015
16	1/2" x 3-1/2" Cap Screw	0161060
17	Universal Linear Spring	0181096
18	Spring EGSO Controls	0181085
19	Clevis Pin 1/2" x 2-1/2"	0993046

ITEM	DESCRIPTION	PART #
20	EGSO Roller	1780192
21	Roller Bushing	1800207
22	EGSO Roller Angle	1780562
23	Universal Roller Plate	9360892
24	Proximity Guide Plate	9332068
25	Proximity Box Tab	9332162
26	Proximity Box Dog Bone	9332161
27	Proximity Control Disk	9332150
28	Proximity Mounting Plate	9310945
29	Proximity Spacer	9332160
30	Proximity Switch	03E2176
31	Proximity Cable - 28' Long	03E2191
32	1/4" Flat Washer	0142022
33	5/16" x 1-1/2 Carriage Bolt	0175031
34	Alignment Bar Assm. - Universal Linear	9332190 *

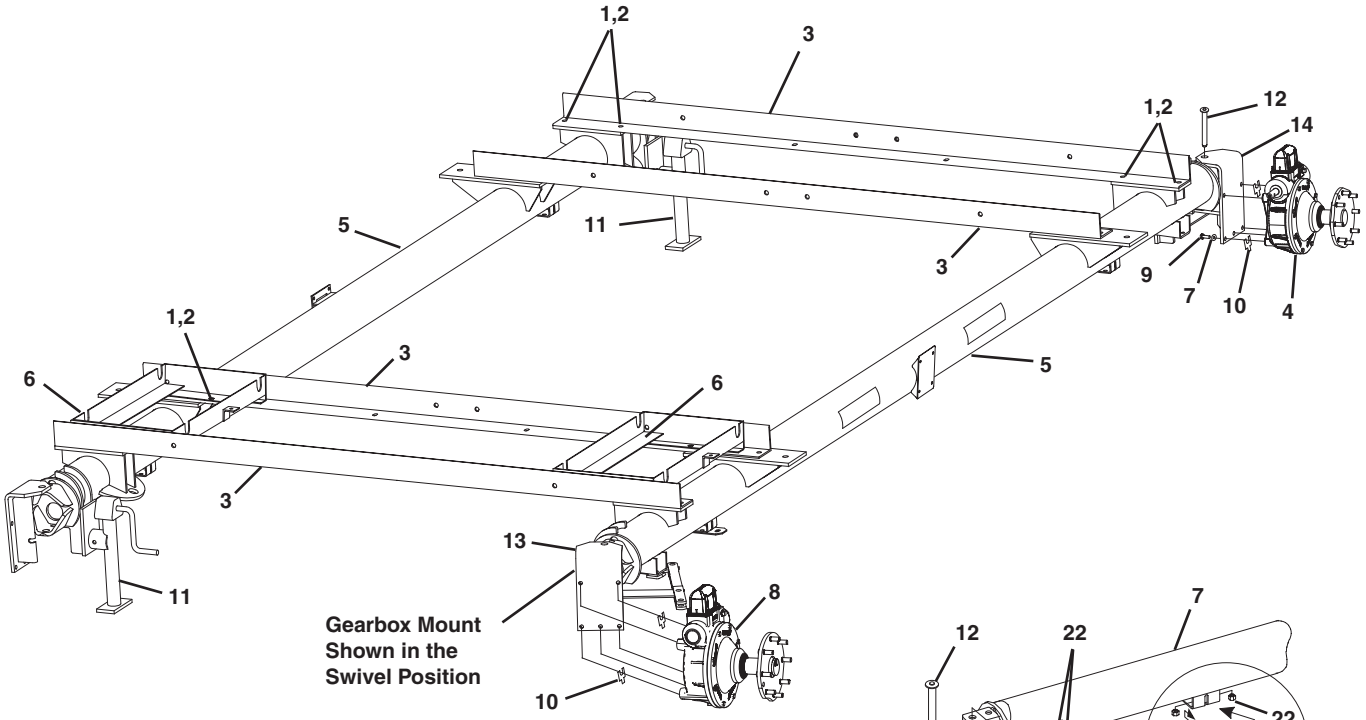
*** NOTE: For AutoPilot Universal Linear replace Item 25 Tab (9332162) & Item 26 Dog Bone (9332161) with Item 34.**

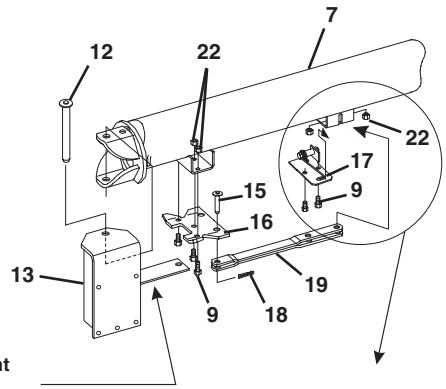
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ITEM	DESCRIPTION	PART #
1	5/8" Lock Nut	0133010
2	5/8" x 2" Cap Screw	0161014
3	Platform Angle	9332026
4	Gearbox - Rear	1701965
	Gearbox - Rear Heavy Duty-Bronze Gear	1732143
5	Basebeam - Universal Linear	9332025
6	Fuel Tank Support	9332030
7	1/2" Flat Washer	0142025
8	Gearbox - Front	1701966
	Gearbox - Front Heavy Duty-Bronze Gear	1732144
9	1/2" x 1-1/4" Cap Screw	0161027
10	Caster - Camber Shim 1/32" (As Required)	0143048
	Caster - Camber Shim 1/8" (As Required)	0143049
	Caster - Camber Shim 5/32" (As Required)	0143050

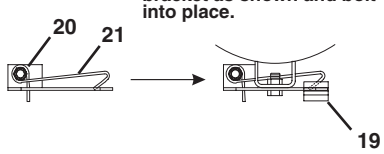
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Latch arm on gearbox mount must seat fully up into latch plate, if it does not, the latch arm should be bent upward to assure it will engage the latch plate fully.

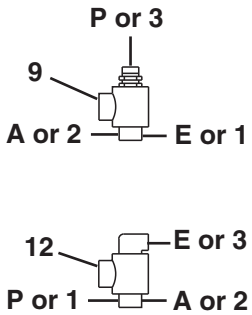
Push carrier with hook through slots in mounting bracket as shown and bolt into place.

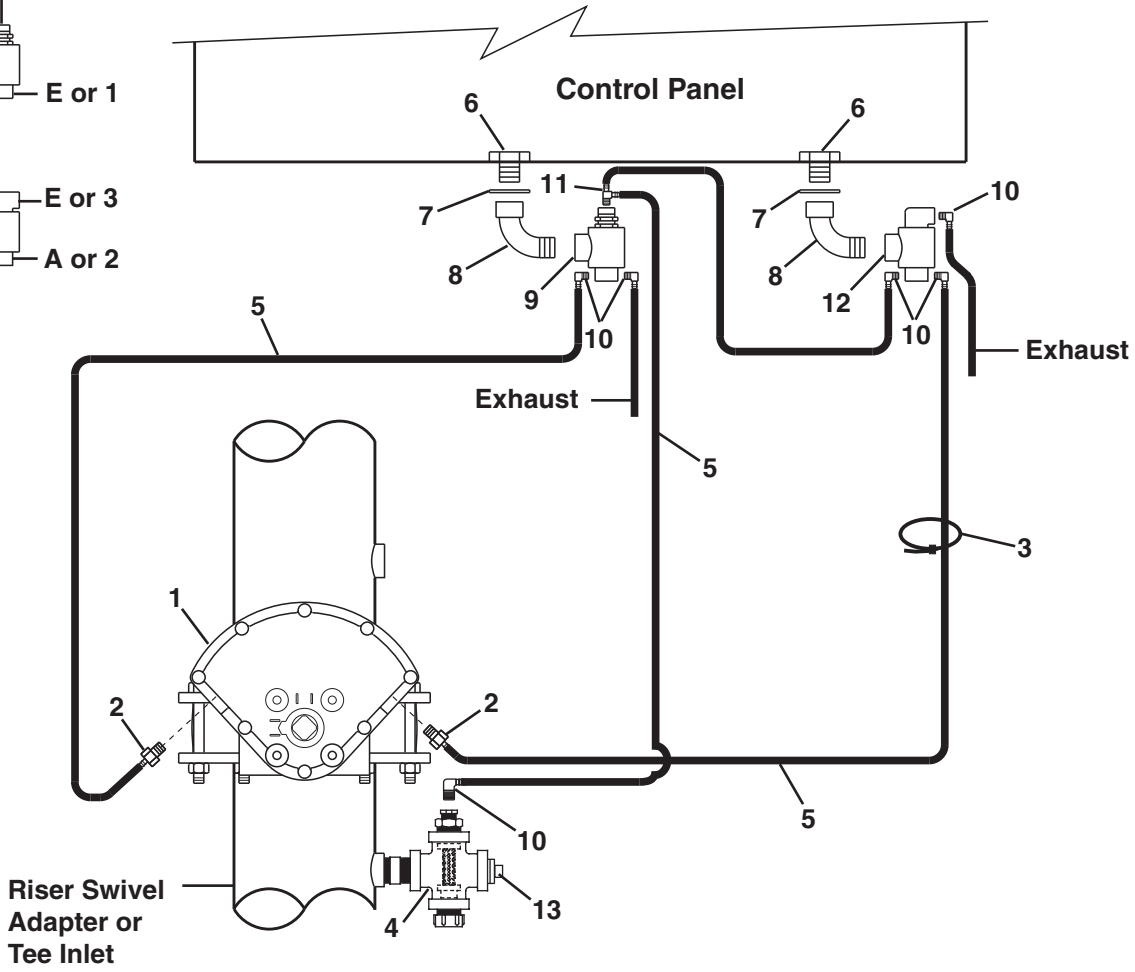


ITEM	DESCRIPTION	PART #
1	5/8" Lock Nut	0133010
2	5/8" x 2" Cap Screw	0161014
3	Platform Angle	9332026
4	Gearbox - Rear	1702761
	Gearbox - Rear Heavy Duty-Bronze Gear	1732836
5	Swivel Basebeam	9332088
6	Fuel Tank Support	9332030
7	1/2" Flat Washer	0142025
8	Gearbox - Front	1702760
	Gearbox - Front Heavy Duty-Bronze Gear	1732835
9	1/2" x 1-1/4" Cap Screw	0161027
10	Caster - Camber Shim 1/32" (As Required)	0143048
	Caster - Camber Shim 1/8" (As Required)	0143049
	Caster - Camber Shim 5/32" (As Required)	0143050
11	Side Crank Jack	0995412
12	Tow Hitch Pin	0995585
13	Gearbox Mount - Front	9360151
14	Gearbox Mount - Rear	9360152
15	3/4" x 2" Pin	0112037
16	Latch Plate	9360160
17	Tow Link Carrier Assembly	9360170
18	1/8" x 1-1/2" Cotter Pin	0151010
19	Tow Link Bar Assm. - Short	9332090
20	1-3/4" 3/4" O.D. Spacer	9360169
21	Tow Link Carrier Spring	0181093
22	1/2" Lock Nut	0133005

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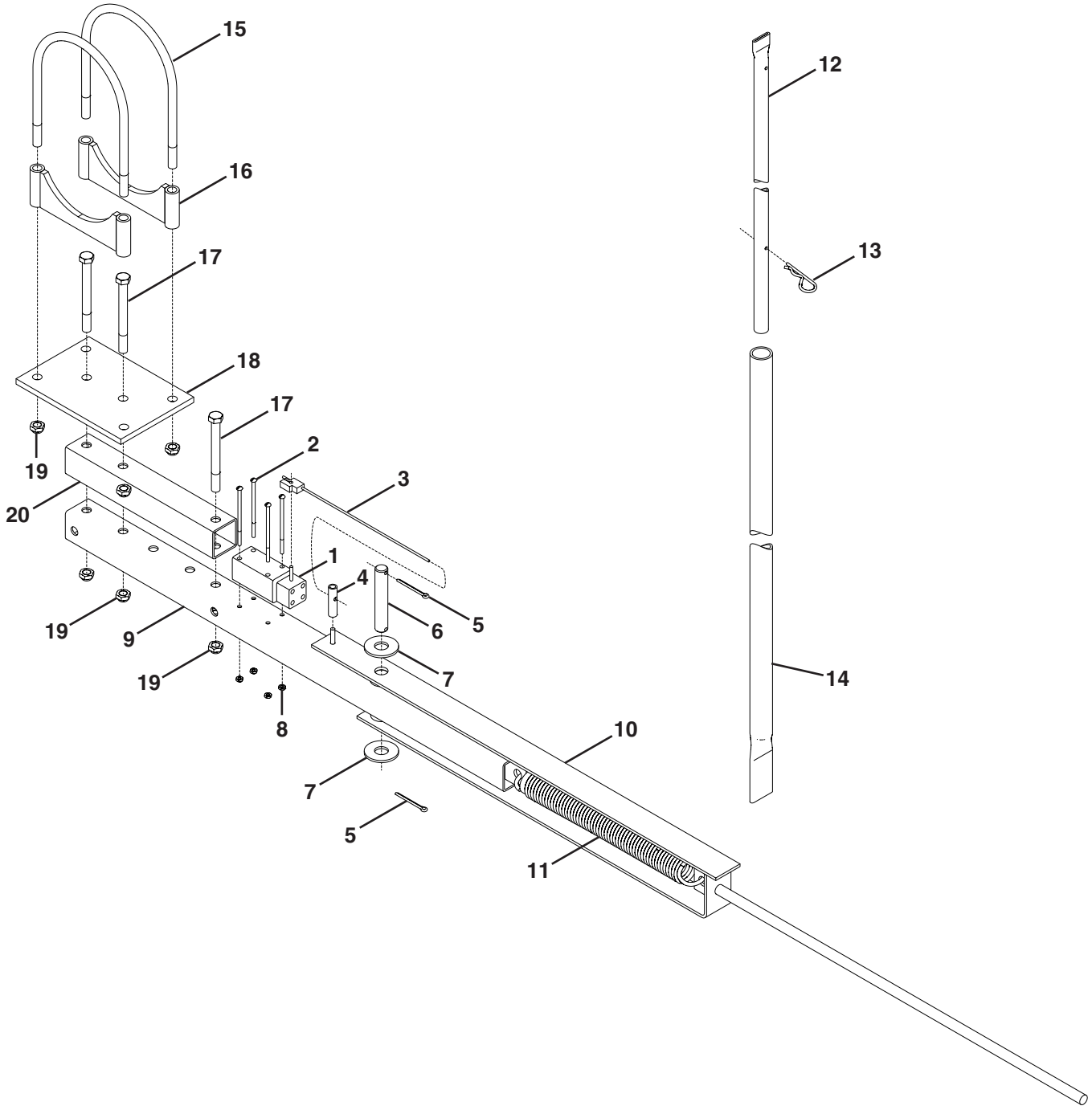
Valve Port
Identification





ITEM	DESCRIPTION	PART #
1	6" Butterfly Valve w/Actuator	0992620
2	1/4" NPT x 1/4" Tube Fitting	0232366
3	Tube Tie Wraps	0314225
4	3/4" Filter Cross	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
5	1/4" x 30' Tube	1740101
6	Rigid Conduit Nipple	0244037
7	3/4" Flat Washer	0142027
8	1/2" Right Elbow Bushed	0241057
9	Solenoid Valve w/Coil (Normally Open)	0232452
10	1/4" Tube x 1/8" NPT Elbow	0232361
11	1/8" NPL x 1/4" x 1/4" Tee	0232367
12	Solenoid Valve w/Coil (Normally Closed)	0232450
13	3/4" Plastic Plug	0246193

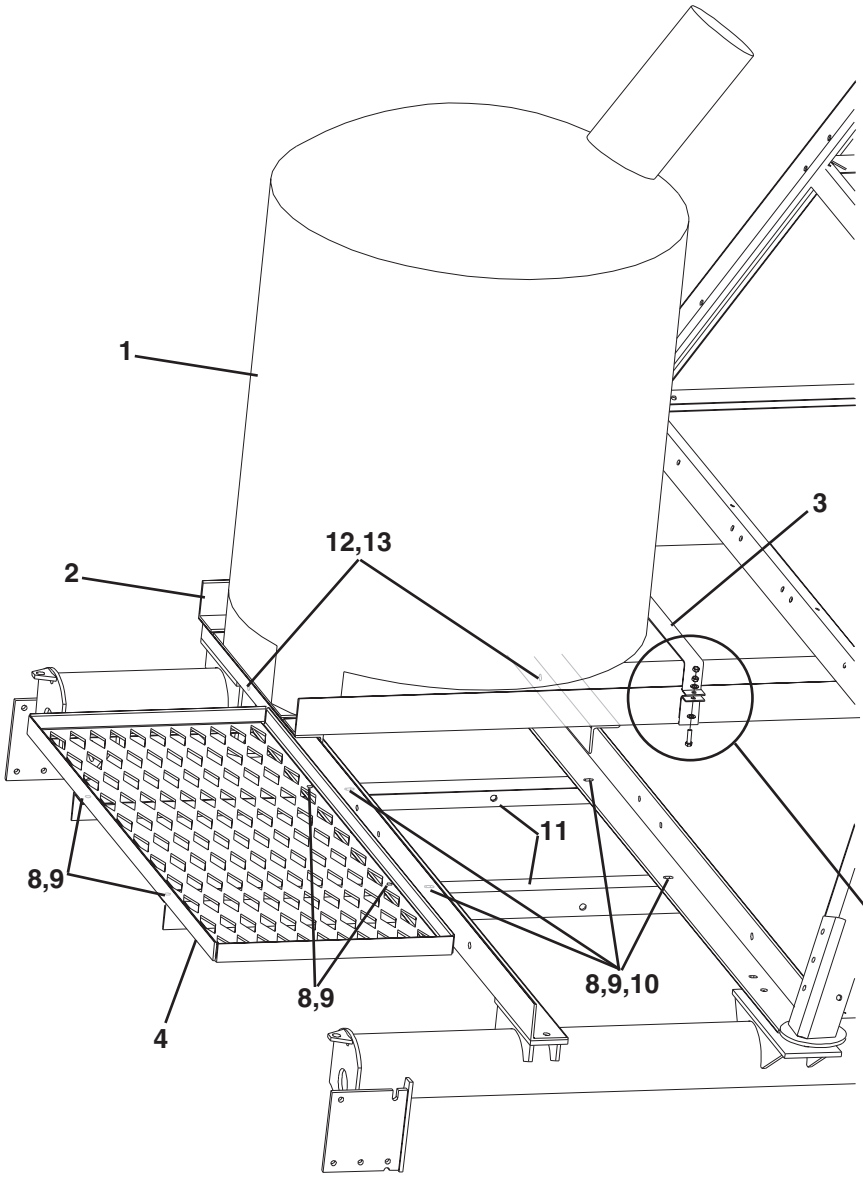
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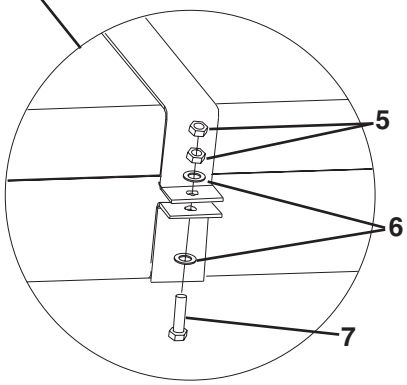
ITEM	DESCRIPTION	PART #
1	Limit Switch Assembly	1811451
2	#10-24 x 4" Round Head Machine Screw	0164166
3	Switch Lever	0315623
4	Pivot Bushing Switch Arm	1732194
5	3/16" x 2" Cotter Pin	0151015
6	Actuator Arm Pin	1732191
7	3/4" Flat Washer	0142021
8	#10 Hex Nut	0131055
9	End of Field Shut-down Arm	1732195
10	Pivoting Arm	1732197

ITEM	DESCRIPTION	PART #
11	Return Spring	0181007
12	Upper Field Stop	1732192
13	5/32" Hair Pin	0181034
14	Lower Field Stop	1732193
15	6-5/8" U-Clamp	1781277
16	6-5/8" Saddle Assembly	1781282
17	1/2" x 5" Cap Screw	0161111
18	Mounting Plate	1732863
19	1/2" Lock Nut	0133005
20	Spacer Tube	9364571

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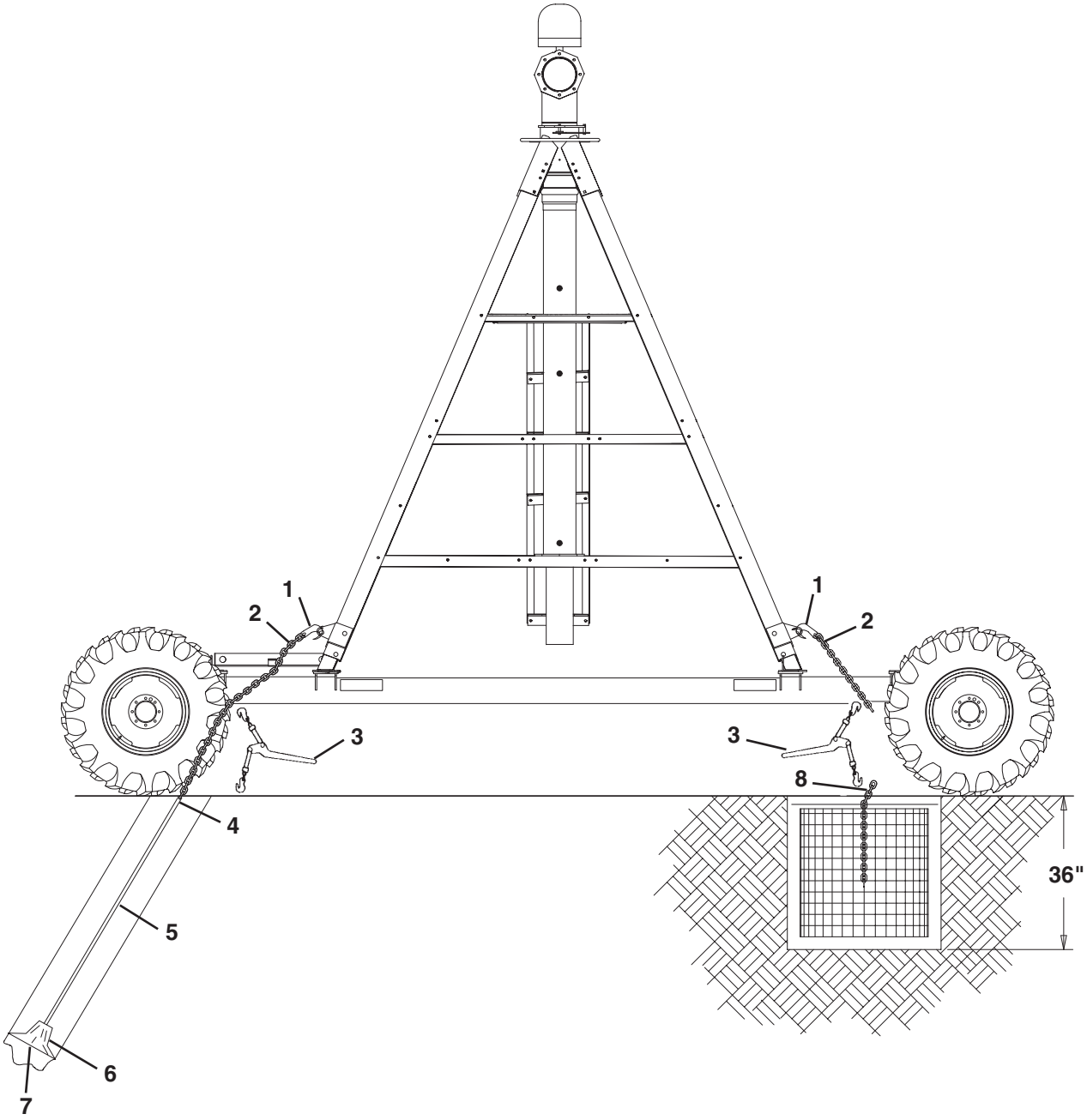


NOTE: Position Fuel Tanks, Fertilizer Tanks and Eng./Gen. Sets to optimally distribute weight over all 4 wheels



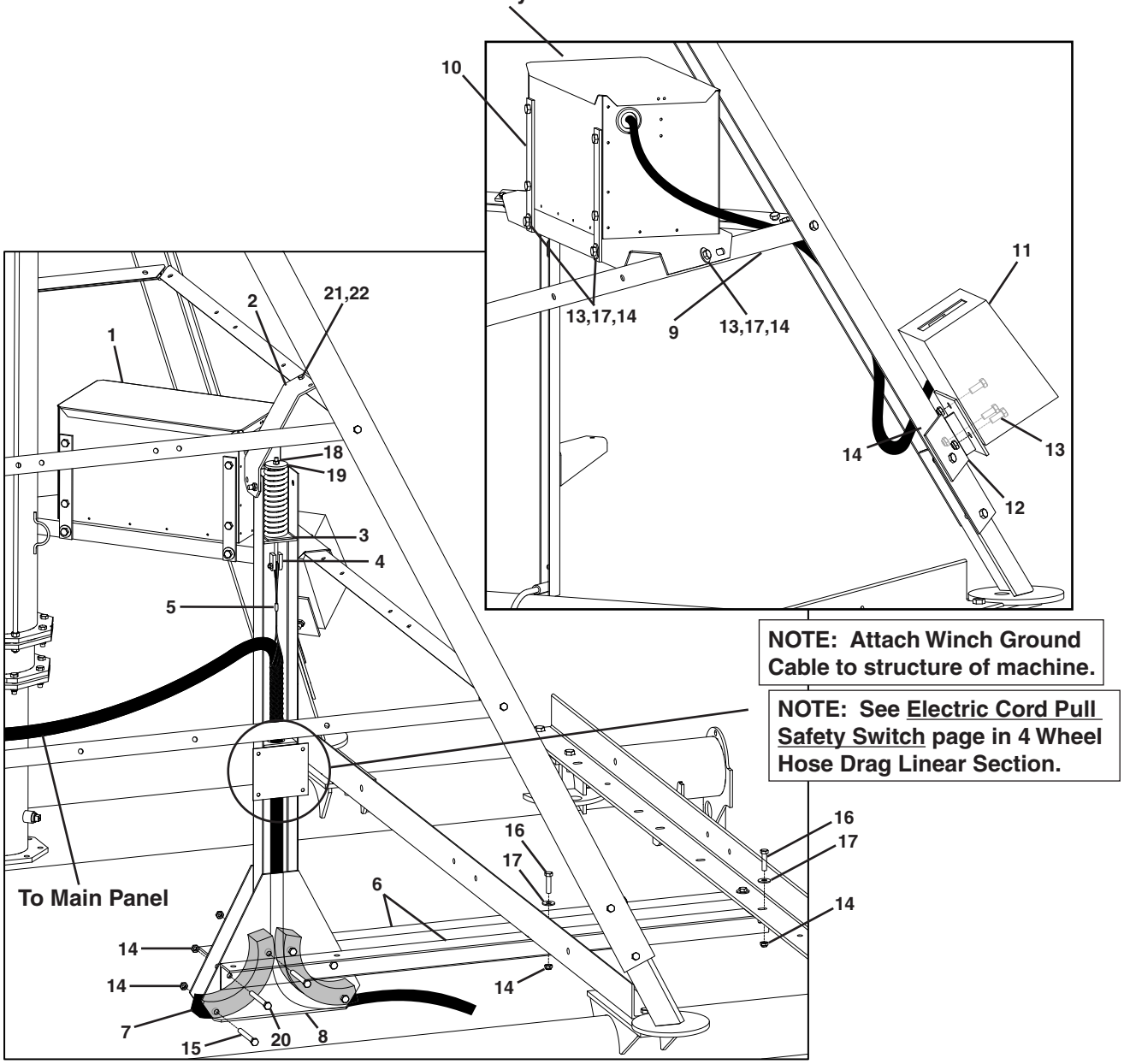
ITEM	DESCRIPTION	PART #
1	Chemigation Unit - 70 Gallon	1K02046
	Chemigation Unit - 110 Gallon	1K02047
	Chemigation Unit - 200 Gallon	1K02048
2	Chemigation Unit Support Platform	9332123
3	Chemigation Unit Tie Down Strap	9332125
4	Maintenance Platform	9330203
5	3/8" Hex Nut	0131018
6	3/8" Flat Washer	0142031
7	3/8" x 1-1/2" Cap Screw	0161042
8	1/2" Lock Nut	0133005
9	1/2" x 2" Cap Screw	0161024
10	1/2" Flat Washer	0142026
11	Maintenance Platform Attachment Angle	9332131
12	5/8" x 1-3/4" Cap Screw	0161088
13	5/8" Lock Nut	0133010

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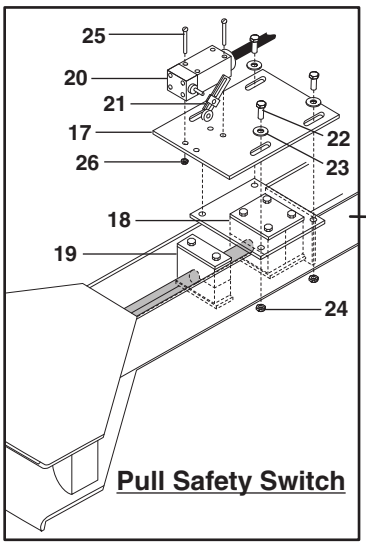
ITEM	DESCRIPTION	PART #
1	Slip Hook	0992731
2	3/8" Binding Chain - 54" Long	0994354
3	3/8" Chain Load Binder	0323050
4	Double Clevis Link	0323047
5	Earth Anchor Rod - 72" Long	1781471
6	Expanding Earth Anchor	0994355
7	3/4" Lock Nut	0133011
8	3/8" Binding Chain - 25" Long	0323060

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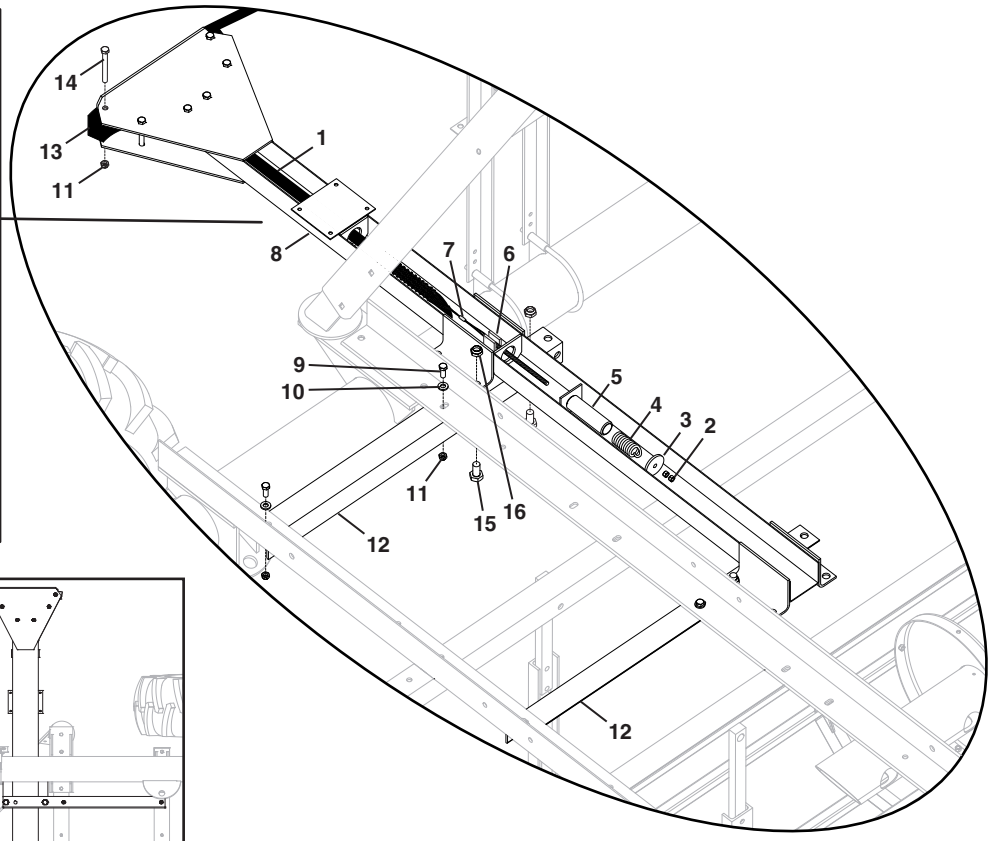


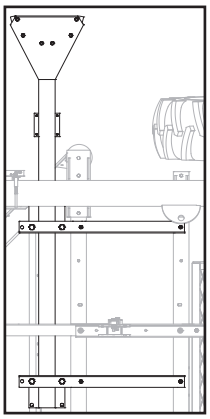
ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Battery Box Assembly	1730127	12	Winch Mounting Plate	9364308
2	Cord Drag Mount Plate	9364323	13	1/2" x 1-1/4" Cap Screw	0161027
3	Spring Guide	1732275	14	1/2" Lock Nut	0133005
4	Spring Adjuster	1732272	15	1/2" x 4-1/2" Cap Screw	0161110
5	Cable Support Grip	0315504	16	1/2" x 2" Cap Screw	0161024
6	Cord Drag Support Angle	9330245	17	1/2" Flat Washer	0142026
7	Bumper	1732258	18	3/8" Hex Nut	0131018
8	Cord DragChannel	9330212	19	Spring Keeper	1732260
9	Battery Tray	9330241	20	1/2" x 5" Cap Screw	0161111
10	Battery Mount Strap	9330236	21	3/8" x 1-1/2" Cap Screw	0161082
11	Double Pull Winch, 12V, 60Amp	0995586	22	3/8" Lock Nut	0133006

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Pull Safety Switch





4 Ga. Mounting
(view from under cart)

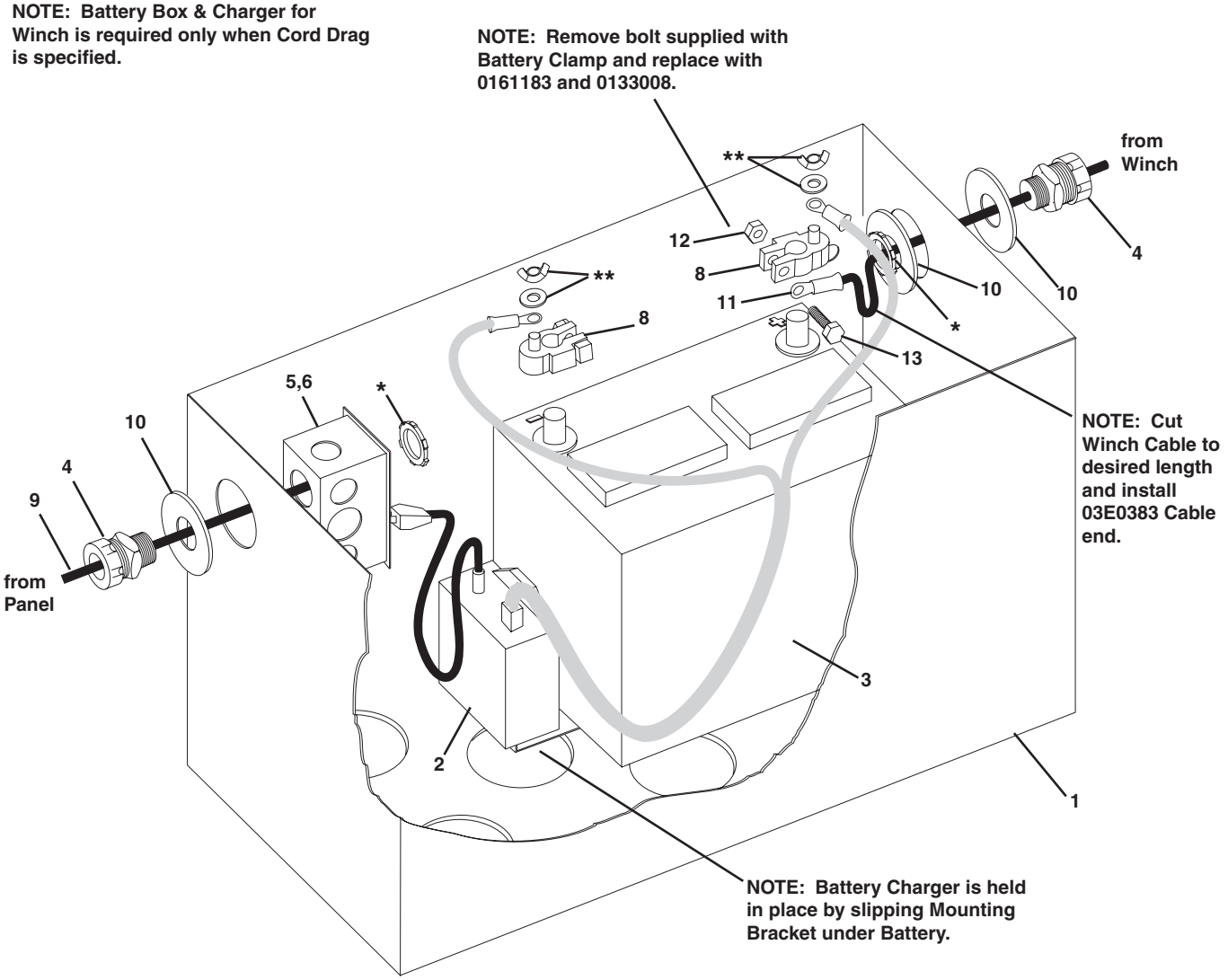
1 Ga. Mounting
(view from under cart)

ITEM	DESCRIPTION	PART #
1	Plug & Cord Assm. (4 Ga.) - 450'	9311942
	Plug & Cord Assm. (1 Ga.) - 450'	9311940
2	3/8" Hex Nut	0131018
3	Spring Keeper	1732260
4	Roll Brake Spring (4 Ga.)	1900139
	Roll Brake Spring (1 Ga.)	0997984
5	Spring Guide (4 Ga.)	1732275
	Spring Guide (1 Ga.)	9363718
6	Spring Adjuster	1732272
7	Cord Grip - Offset Eye - 15" (4 Ga.)	03E2892
	- 18" (1 Ga.)	03E2893
8	Cord Drag Channel Assm. (4 Ga.)	9362538
	Cord Drag Channel Assm. (1 Ga.)	9363719
9	1/2" x 1-1/4" Cap Screw	0161027
10	1/2" Flat Washer	0142025
11	1/2" Lock Nut	0133005
12	Cord Drag Channel Angle Mount	9363945
13	Bumper (4 Ga.)	1732258
	Bumper (1 Ga.)	9363711

ITEM	DESCRIPTION	PART #
14	1/2" x 4-1/2" Cap Screw (4 Ga.)	0161110
	1/2" x 6" Cap Screw (1 Ga.)	0161430
15	3/4" x 1-1/2" Cap Screw	0161196
16	3/4" Lock Nut	0133011
17	Switch Mount (60A Only)	1732262
	Switch Mount - Big	9363734
18	Cord Clamp Large - 60A (4 Ga.)	03E2903
	- 100A & 200A (1 Ga.)	03E2905
19	Cord Clamp Small - 60A (4 Ga.)	03E2902
	- 100A & 200A (1 Ga.)	03E2904
20	Limit Switch Assm.	1811451
21	Adjustable Switch Arm	0315802
22	5/16" x 1" Cap Screw	0161052
23	5/16" Flat Washer	0142017
24	5/16" Lock Nut	0133007
25	#10 x 2-1/2" Round Head Machine Screw	0164083
26	#10 Hex Nut	0131055

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NOTE: Battery Box & Charger for Winch is required only when Cord Drag is specified.

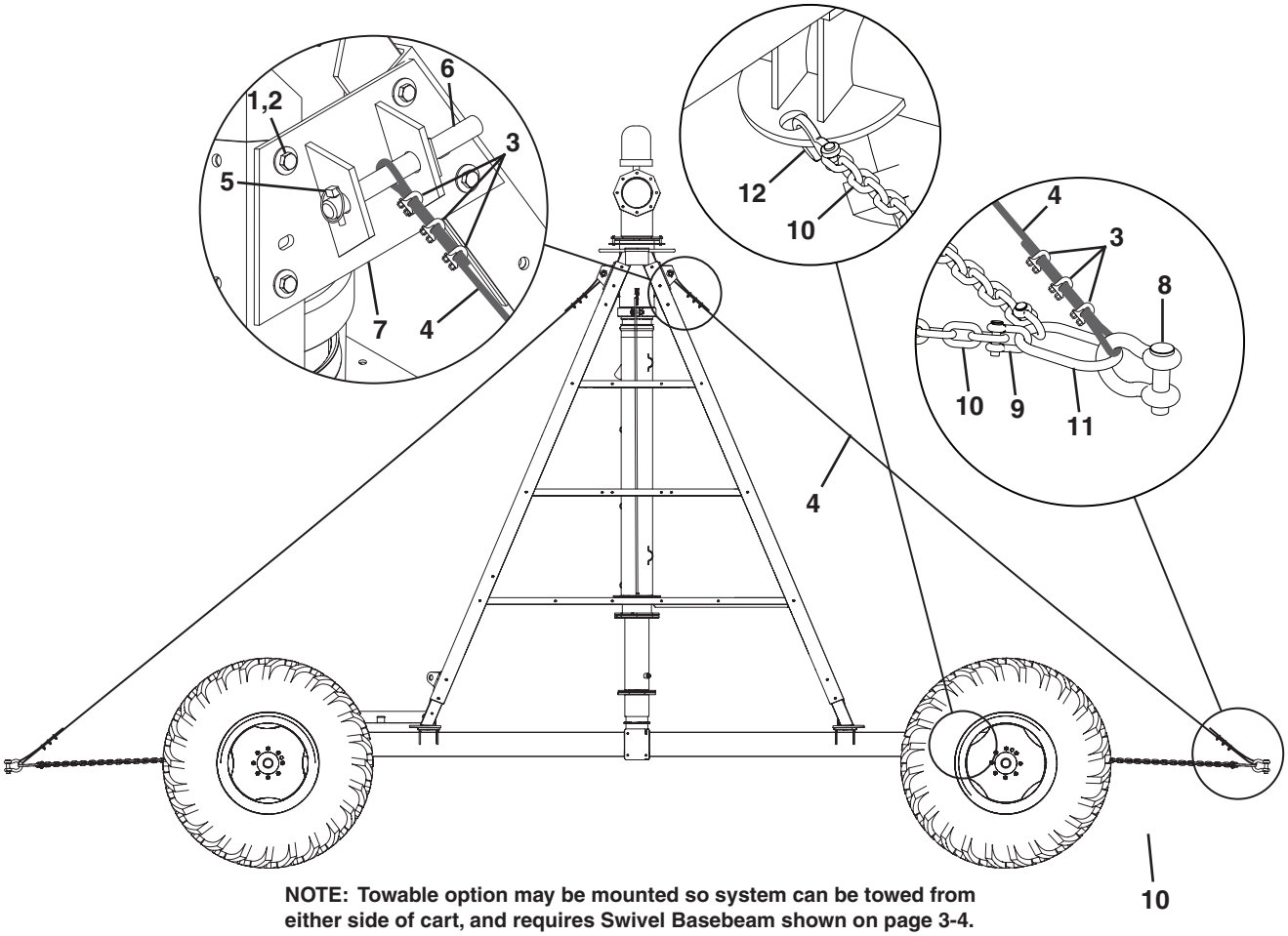


ITEM	DESCRIPTION	PART #
1	Battery Box Assembly	1730127
2	Battery Charge Kit - 12V	03E1932
3	Battery, Group 31M - 12V	0980280
	Battery, Group 24 - OBSOLETE Jun 2017	0993420
4	Cord Connector	0314119
5	Outlet Box	03E1692
6	Duplex Receptacle, 5-15Amps	03E1691
7	Receptacle Cover	03E1693
8	Battery Clamp w/Stud	03E1933
9	Electrical Cable - 4 Cond. 14 Ga., 20' - 6"	1812008
10	1" Valve Washer	0142020
11	1/4" Ring Tongue Terminal	03E0383
12	1/4" Lock Nut	0133008
13	1/4" x 1-1/4" Cap Screw	0161183

* NOTE: Included with Item 4.
** NOTE: Included with Item 7.

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Domestic Use ONLY



NOTE: Towable option may be mounted so system can be towed from either side of cart, and requires Swivel Basebeam shown on page 3-4.

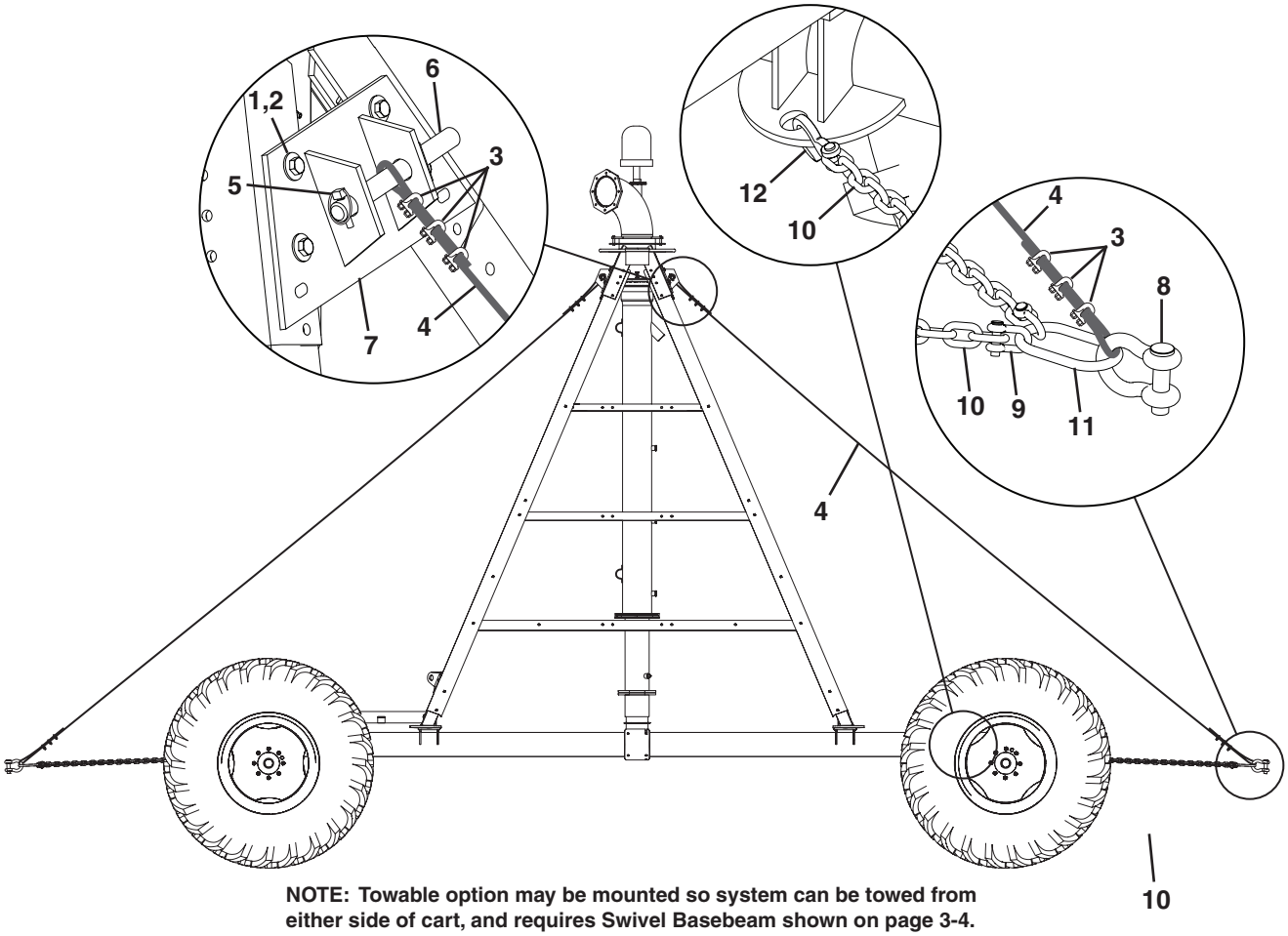
ITEM	DESCRIPTION	PART #
1	1/2" x 2" Cap Screw	0161024*
2	1/2" Flat Washer	0142026*
3	Cable Clamp	0202011
4	Cable - 21' Long	0201031
5	5/16" Quick Pin	0993635
6	Tongue Pin	1703572
7	Swivel Anchor	9364310
8	Anchor Shackle	0991484
9	Chain Shackle	0992947**
10	86.5" Binding Chain	0995662**
11	Oblong Link	0995763**
12	Slip Hook	0992731**

*** NOTE: To secure Cap Screw & Washer use existing 1/2" Lock Nuts...0133005.**

**** NOTE: Items 9-12 come with Chain Towing hardware called out on Hose Ends for Tee Inlet page in this section.**

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NOTE: Towable option may be mounted so system can be towed from either side of cart, and requires Swivel Basebeam shown on page 3-4.

ITEM	DESCRIPTION	PART #
1	1/2" x 2" Cap Screw	0161024*
2	1/2" Flat Washer	0142026*
3	Cable Clamp	0202011
4	Cable - 21' Long	0201031
5	5/16" Quick Pin	0993635
6	Tongue Pin	1703572
7	Swivel Anchor	9364310
8	Anchor Shackle	0991484
9	Chain Shackle	0992947**
10	86.5" Binding Chain	0995662**
11	Oblong Link	0995763**
12	Slip Hook	0992731**

* NOTE: To secure Cap Screw & Washer use existing 1/2" Lock Nuts...0133005.

** NOTE: Items 9-12 come with Chain Towing hardware called out on Hose Ends for Tee Inlet page in Universal Linear section.

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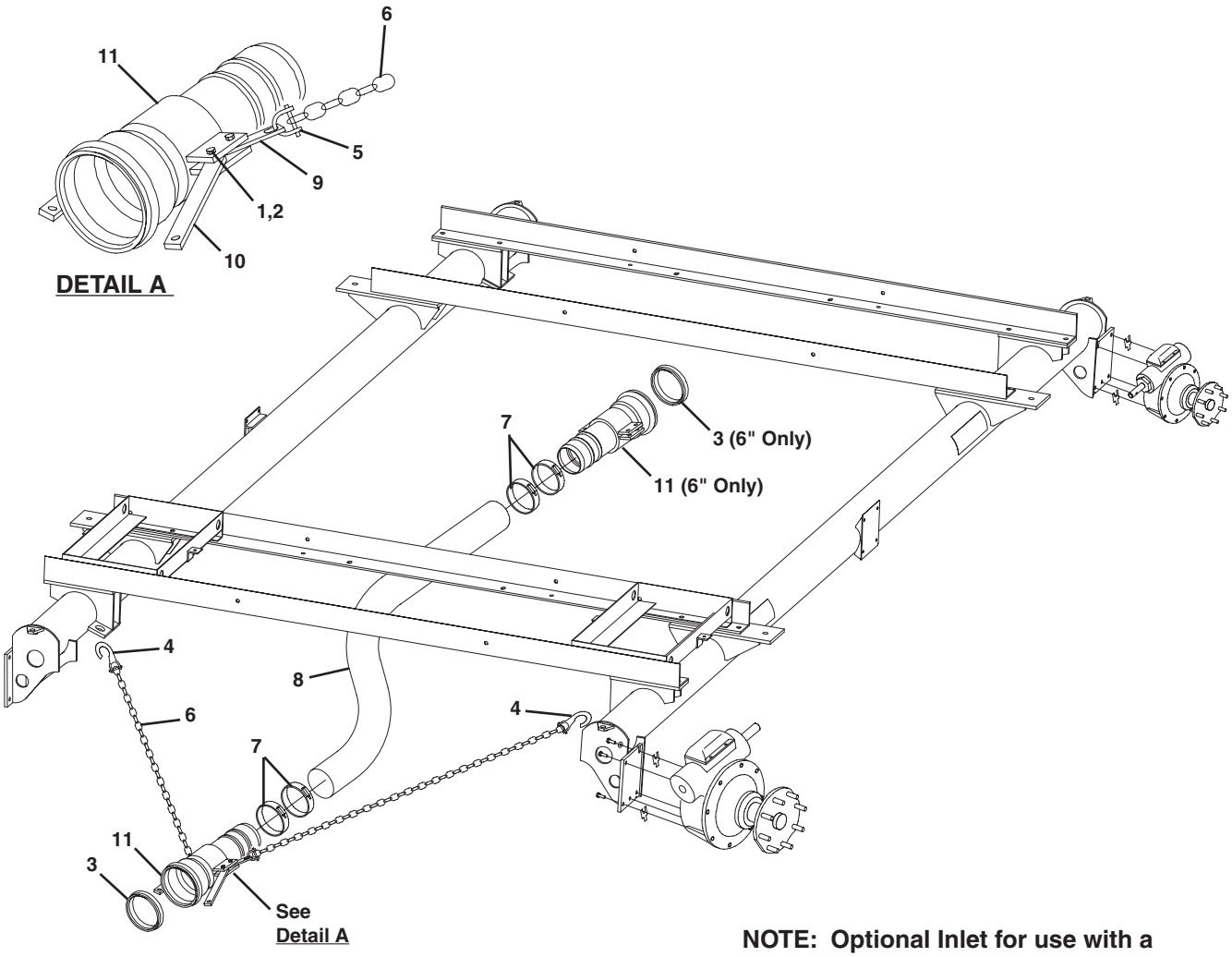
HOSE DRAG

Universal Linear - Effective 6/06

Description	Rev. #	Pg. #
HOSE DRAG		
Hose Ends for Swivel Inlet	06-16	2-3
Riser Pipe & Swivel Inlet	06-15	2-4
Hose Ends for Tee Inlet	06-16	2-5
Riser Pipe & Tee Inlet	07-13	2-6
Automated Universal Linear Swivel Elbow Inlet	04-16	2-7
Automated Universal Linear Inside Swivel Elbow Inlet	06-16	2-8
HOSE OPTIONS		
Automated Universal Linear POLY-Hose Ends - 3" & 4"	07-13	2-9
Automated Universal Linear Hard Hose Inlet	06-16	2-10
5" Hose Connector	07-13	2-11
6”, 4-3/4” & 8” Soft Hose Riser Connection	06-16	2-12
End Cap & Flapper	06-06	2-13
4-3/4” & 6” Poly Pipe Connector	02-19	2-14
4" Poly-Hose End	06-06	2-15
6” SDR 11 & 8” Poly End	06-16	2-16

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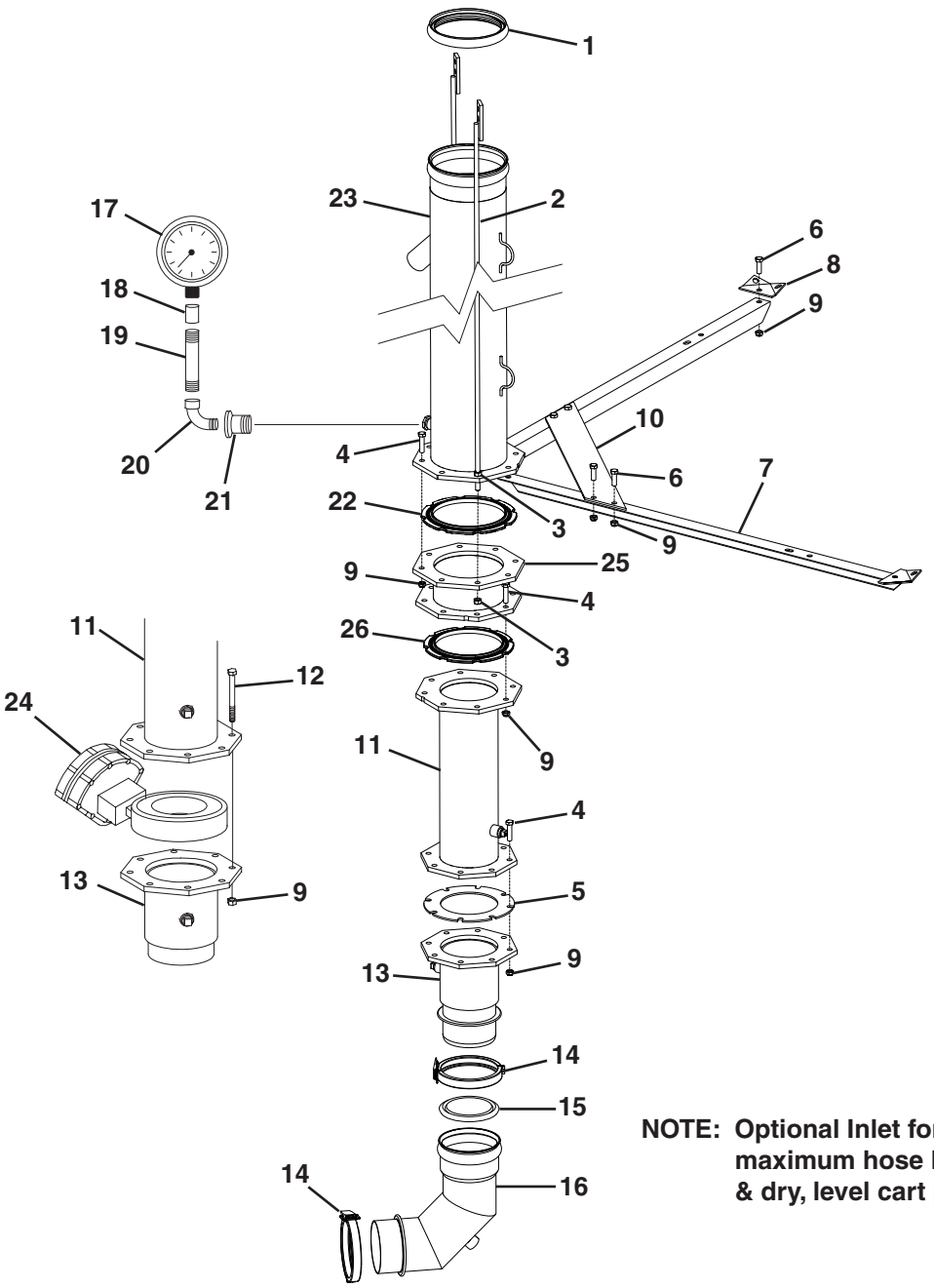


NOTE: Optional Inlet for use with a maximum hose length of 300' & dry, level cart path conditions.

ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 2" Cap Screw	0161024
3	4" Pierce Gasket	0221010
	5" Western Gasket	0221014
	6" Pierce Gasket	0221015
4	Slip Hook	0992731
5	Chain Shackle	0992947
6	Chain - High Test Binding 3/8" x 54 Links	0994354
7	T-Bolt Clamp 5" Hose	0995199
8	Soft Hose 5" I.D. x 120"	0995200
9	Short Strap Adapter	9332034
10	Adapter Strap - 9.38" Long	9332035
	Pull Strap - 15.00" Long	9362642
11	Female Hose Adapter - 4"	9332056
	Female Hose Adapter - 5"	9332078
	Female Hose Adapter - 6"	9332054

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Functional Area	Assembly / Part	Rev# 06-15
Hose Drag	Riser Pipe & Swivel Inlet	

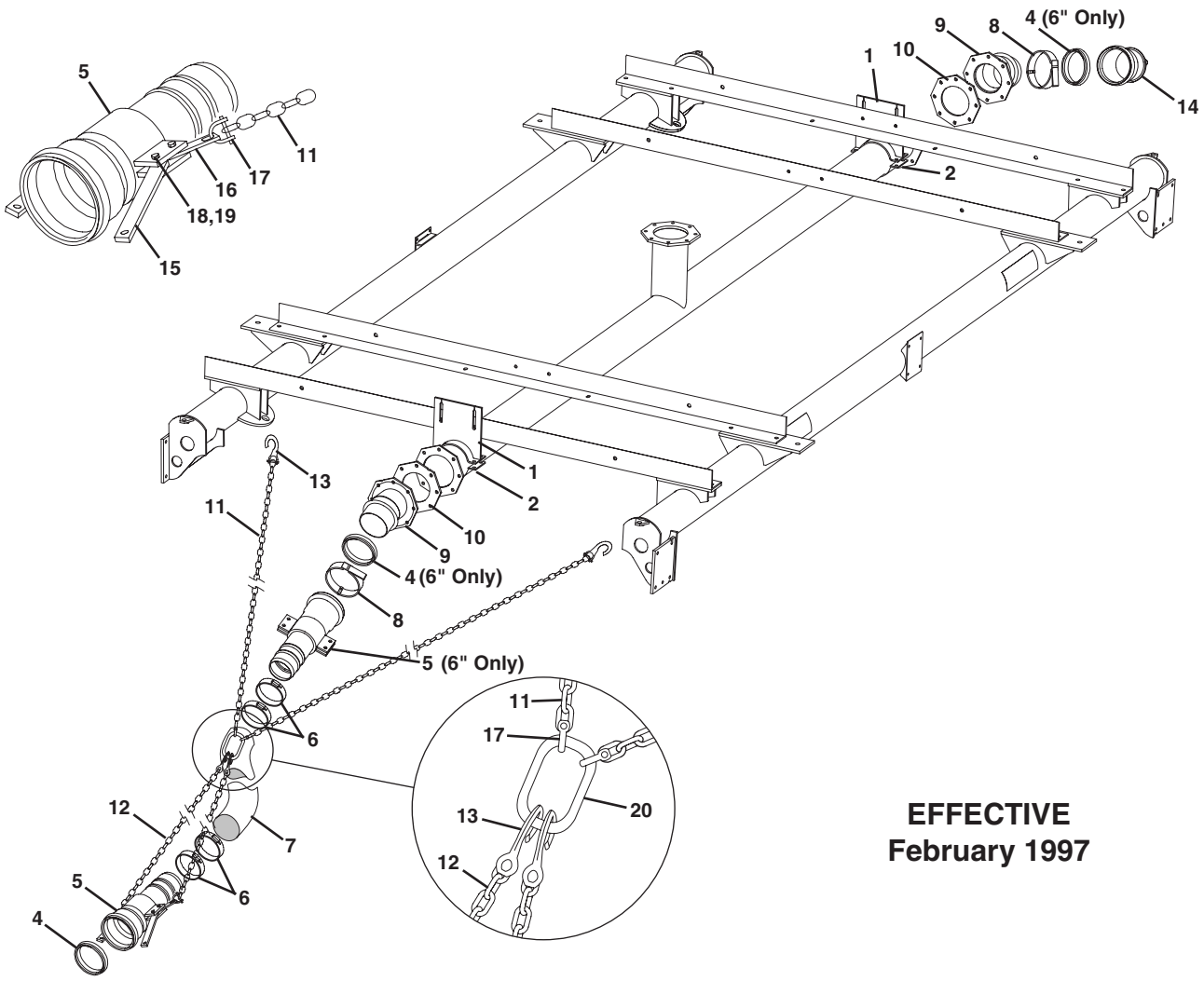


NOTE: Optional Inlet for use with a maximum hose length of 300' & dry, level cart path conditions.

ITEM	DESCRIPTION	PART #
1	8" Gasket (3 Lip)	0221001
2	Tie Rod	9361374
3	1/2" Hex Nut	0131015
4	1/2" x 2" Cap Screw	0161024
5	6" Gasket	1730788
6	1/2" x 1-1/2" Cap Screw	0161026
7	Riser Support	9361586
8	Riser Support Ear	1781375
9	1/2" Lock Nut	0133005
10	Gusset	1701659
11	Riser Pipe Spool	9332031
12	1/2" x 4-1/2" Cap Screw	0161110
13	Riser Swivel Adapter	9332032
14	6" Circle Lock Ring	0992318
15	6" Neoprene Gasket	0221015
16	6" Steel Ring Lock Elbow w/o Gasket	1K01249

ITEM	DESCRIPTION	PART #
17	Pressure Gauge (0-30 PSI)	0231122
	Pressure Gauge-Low Pressure (0-60 PSI)	0232442
	Pressure Gauge (0-100 PSI)	0232501
	Pressure Gauge-High Pressure (1-160 PSI)	0231001
	Pressure Gauge (0-4 BAR)	0231123
	Pressure Gauge (0-8 BAR)	0231124
18	1/4" Coupling	0245008
19	1/4" x 3" Nipple	0211031
20	1/4" x 90° Street Elbow	0241032
21	3/4" x 1/4" Reducer	0244025
22	8-5/8" Gasket	0994500
23	8-5/8" Riser Pipe	9361365
24	6" Butterfly Valve w/Actuator	0992620
25	8" Spool w/8" & 8-5/8" Flange - 4-1/2" Long	9364331
26	8" Pipe Gasket	0992439

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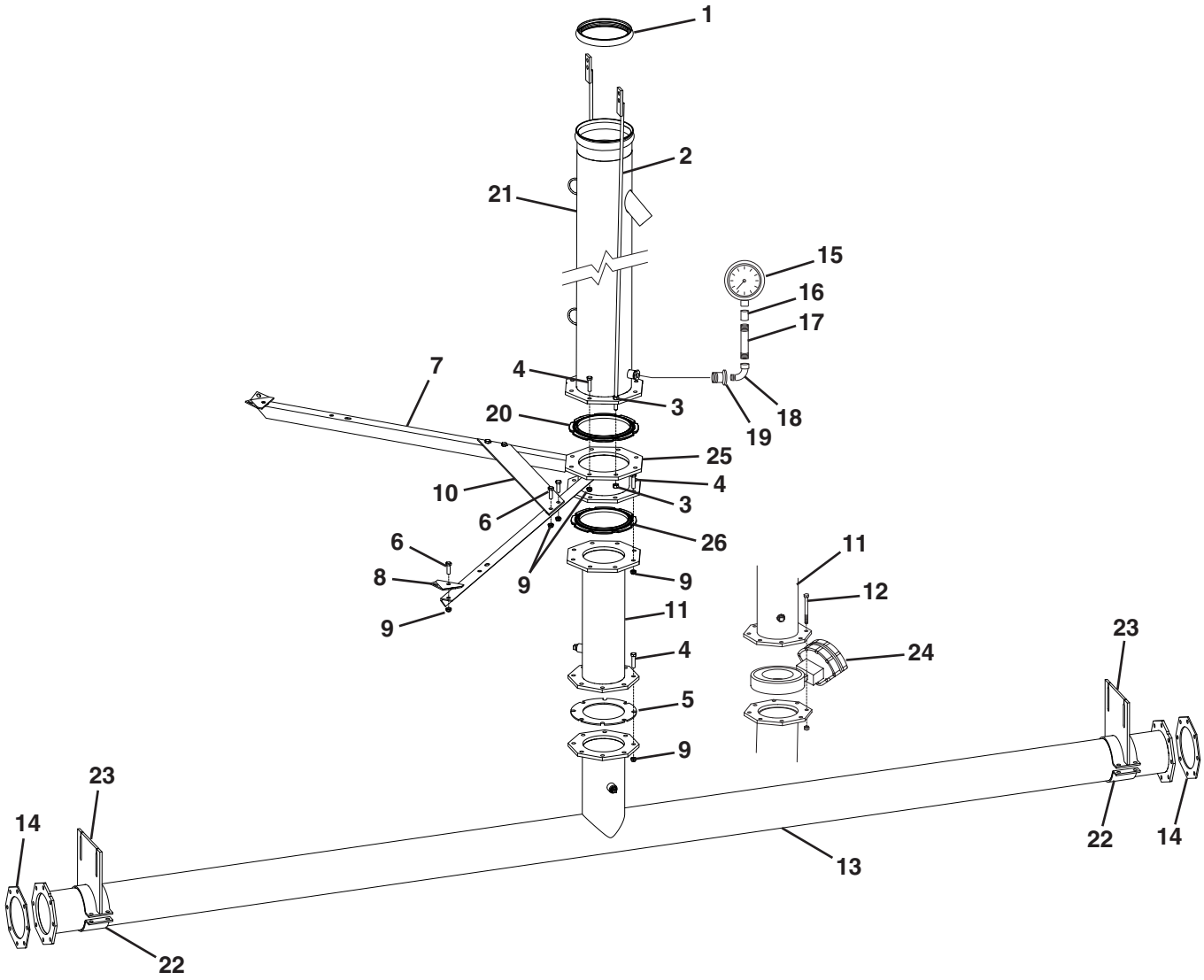


EFFECTIVE
February 1997

ITEM	DESCRIPTION	PART #
1	6-5/8" Half Clamp Assembly	9332095
2	6-5/8" Half Clamp	1700622
3	Tee Inlet	9332093
4	4" Pierce Gasket	0221010
	5" Western Gasket	0221014
	6" Pierce Gasket	0221015
5	Female Hose Adapter - 4"	9332056
	Female Hose Adapter - 5"	9332078
	Female Hose Adapter - 6"	9332054
6	T-Bolt Clamp - 5" Hose	0995199
7	5" Soft Hose - 120" Long	0995200
8	6" Circle Lock Ring	0992318
9	Tee Inlet Water Connection	9360449

ITEM	DESCRIPTION	PART #
10	6-5/8" Flat Gasket	0992211
11	86.5" Binding Chain	0995662
12	54" Binding Chain	0994354
13	Slip Hook	0992731
14	Tee Inlet End Cap	9360447
15	Adapter Strap - 9.38" Long	9332035
	Pull Strap - 15.00" Long	9362642
16	Adapter Strap - Short	9332034
17	Chain Shackle	0992947
18	1/2" Lock Nut	0133005
19	1/2" x 2" Cap Screw	0161024
20	Oblong Link	0995763

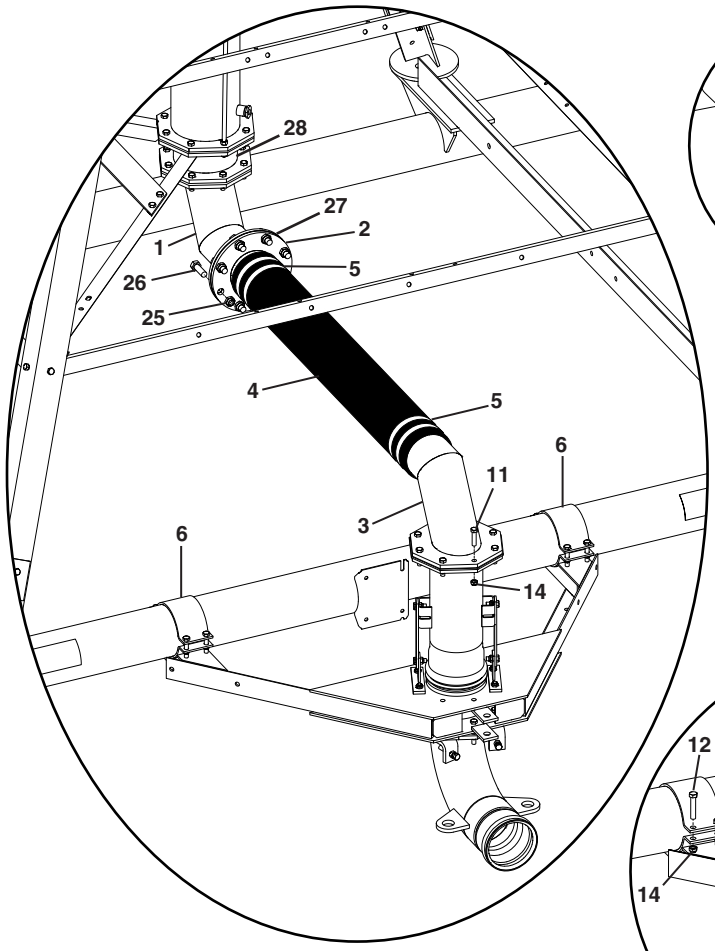
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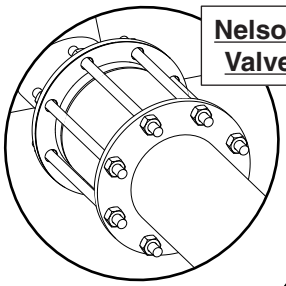


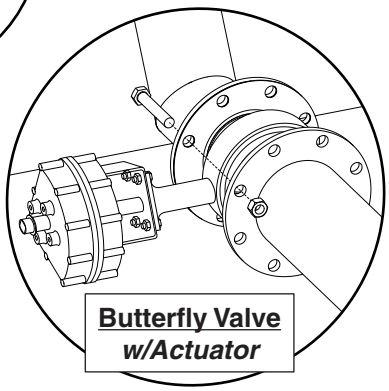
ITEM	DESCRIPTION	PART #
1	8" Gasket (3 Lip)	0221001
	8" Gasket Lubricated (1 Lip)	099P004
2	Tie Rod	9361374
3	1/2" Hex Nut	0131015
4	1/2" x 2" Cap Screw	0161024
5	6" Gasket	1730788
6	1/2" x 1-1/2" Cap Screw	0161026
7	Riser Support	9361586
8	Riser Support Ear	1781375
9	1/2" Lock Nut	0133005
10	Gusset	1701659
11	Riser Pipe Spool	9332031
12	1/2" x 4-1/2" Cap Screw	0161110
13	Tee Inlet	9332093
14	6-5/8" Gasket	0992211
15	Pressure Gauge (0-30 PSI)	0231122
	Pressure Gauge-Low Pressure (0-60 PSI)	0232442
	Pressure Gauge (0-100 PSI)	0232501
	Pressure Gauge-High Pressure (1-160 PSI)	0231001
	Pressure Gauge (0-4 BAR)	0231123
	Pressure Gauge (0-8 BAR)	0231124

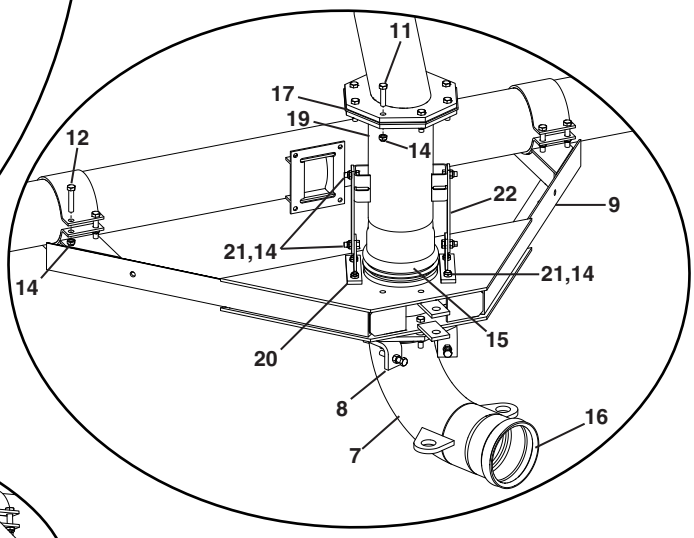
ITEM	DESCRIPTION	PART #
16	1/4" Coupling	0245008
17	1/4" x 3" Nipple	0211031
18	1/4" x 90° Elbow	0241032
19	3/4" x 1/4" Reducer	0244025
20	8-5/8" Plastic Gasket	0994500
21	8-5/8" Riser Pipe	9361365
22	6-5/8" Half Clamp	1700622
23	6-5/8" Half Clamp Assembly	9332095
24	6" Butterfly Valve w/Actuator	0992620
25	8" Spool w/8" & 8-5/8" Flange - 4-1/2" Long	9364331
26	8" Pipe Gasket	0992439

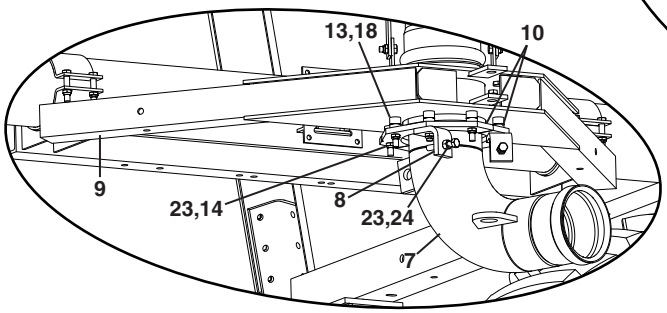
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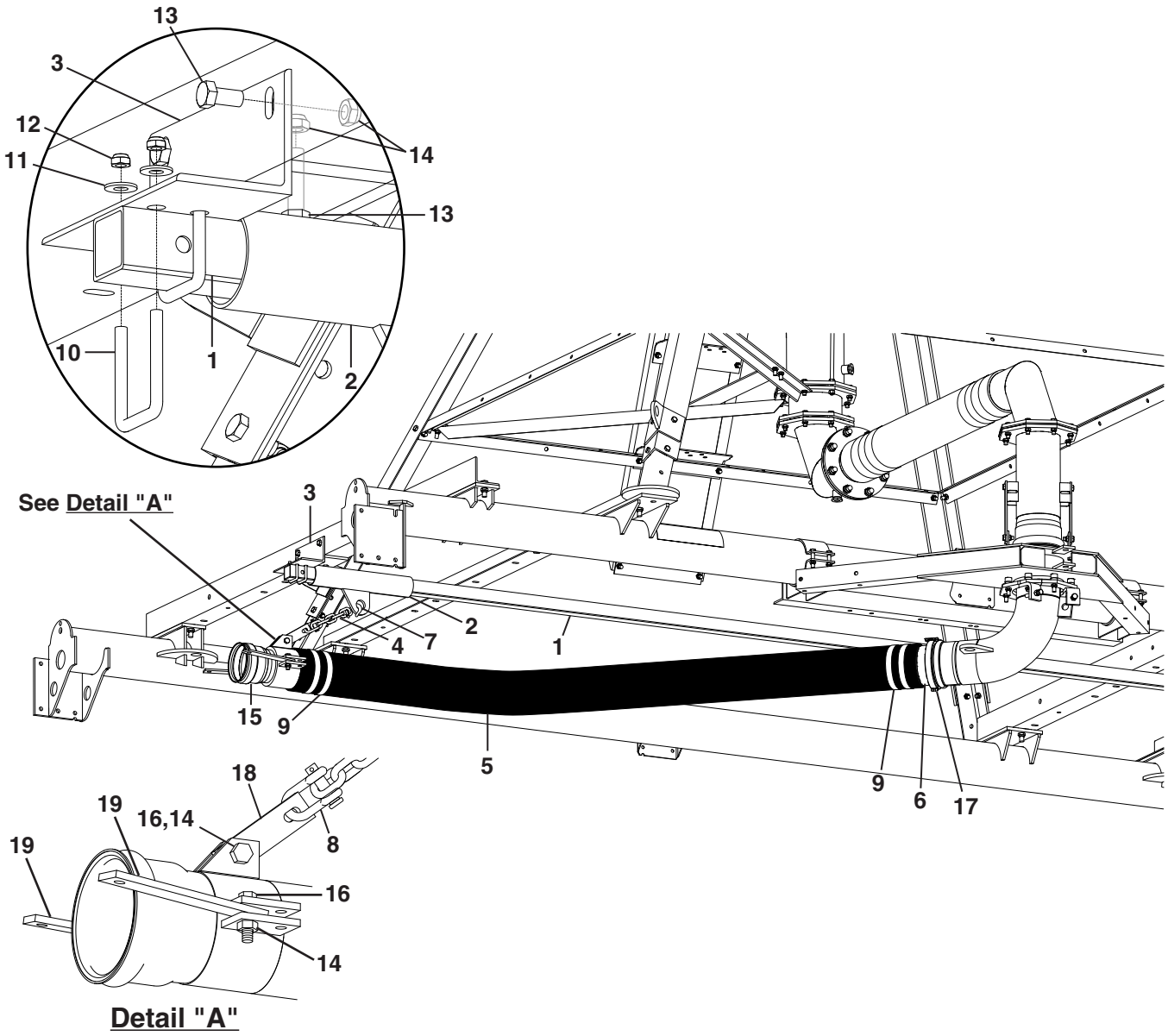




ITEM	DESCRIPTION	PART #
1	6" 90° Flanged Inlet	9332248
2	6" Hose Barb Assm. - ANSI Flange	9332222
3	6" Barb Inlet - 90°	9332183
4	Hose - 6" x 42.50" Long	9332247
5	6" Flex Joint Clamp	0991186
6	6-5/8" Half Clamp	1700622
7	6" Groove Lock Elbow	9362602
8	Stop Adjustment Bracket	9362604
9	Lower Elbow Mount Assm. - PRIOR TO Jan 2010	9332196
	Lower Elbow Mount Assm. - EFF. Jan 2010	9332208
10	Half Flange - 8"	9362610
11	1/2" x 2" Cap Screw	0161024
12	1/2" X 2-1/2" Cap Screw	0161023
13	5/8" Bolt Bushing	0192074
14	1/2" Lock Nut	0133005

ITEM	DESCRIPTION	PART #
15	6-5/8" 3-Lip Gasket	0996279
16	6" Pierce Gasket	0221015
17	8" Gasket	0996566
18	7/16" Bolt Bushing	1730525
19	Swivel Coupler, 8" Flange	9363023
20	Hold Down Bracket	9363035
21	1/2" x 1-1/4" Cap Screw	0161027
22	Adapter Strap	9332035
23	1/2" x 3" Cap Screw	0161381
24	1/2" Hex Nut	0131015
25	3/4" x 2-1/4" Cap Screw	0161157
26	3/4" Lock Nut	0133011
27	6" ANSI Gasket	0996639
28	8" Spool w/8" & 8-5/8" Flange - 4-1/2" Long	9364331

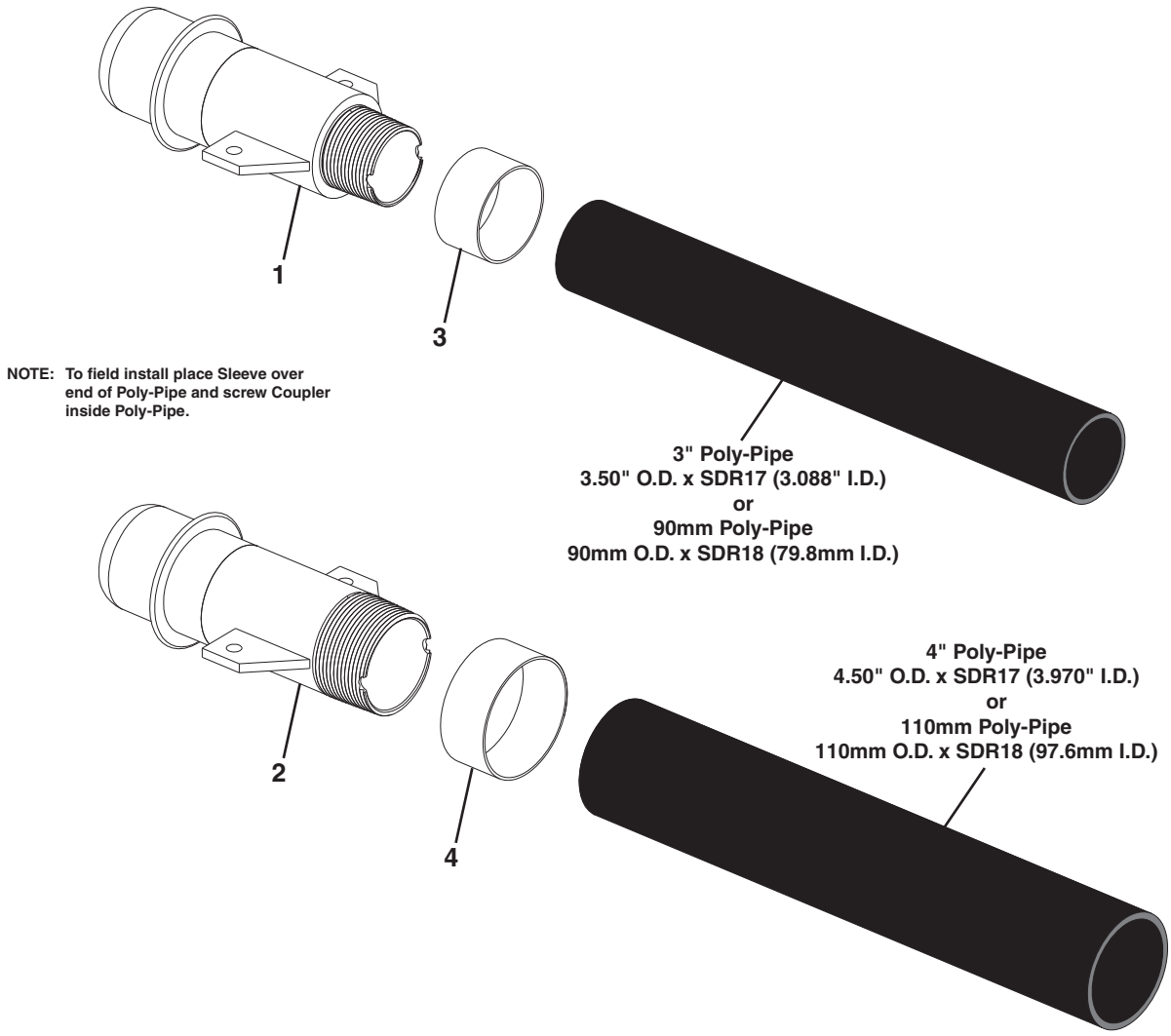
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ITEM	DESCRIPTION	PART #
1	Mounting Beam	1731383
2	Hose Pull Slider Assm.	9332189
3	Slider Mount Assm.	9332188
4	3/8" Binding Chain	0323060
5	Hose - 6" x 94" Long	9332191
6	6" Male Inlet Adapter	9361794
7	Slip Hook	0992731
8	Chain Shackle	0992947
9	6" Flex Joint Clamp	0991186
10	U-Bolt	0176053
11	3/8" Washer	0142031
12	3/8" Lock Nut	0133006

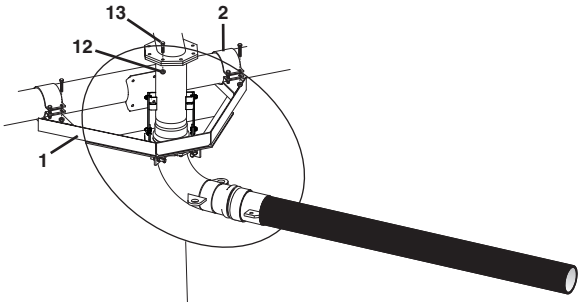
ITEM	DESCRIPTION	PART #
13	1/2" x 1" Cap Screw	0161028
14	1/2" Lock Nut	0133005
15	Female Adapter - 4" to 6"	9332203
	Female Adapter - 5" to 6"	9332202
	Female Adapter - 6" to 6"	9332204
16	1/2" x 2" Cap Screw	0161024
17	6" Circle Lock Ring	0992318
18	Short Adapter Strap	9332034
19	Adapter Strap - 9.38" Long	9332035
	Pull Strap - 15.00" Long	9362642
	Pull Strap - 16.00" Long	9332219

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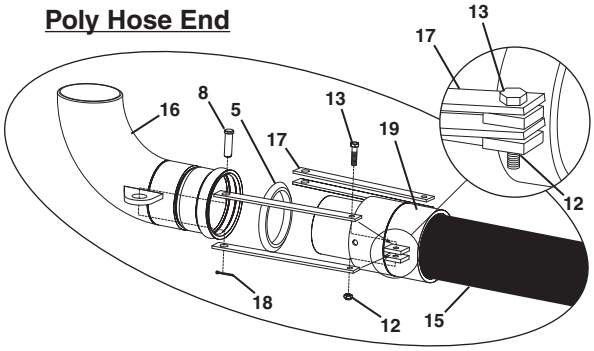


ITEM	DESCRIPTION	PART #
1	3" PE Pipe Fitting x 4" Coupler	9361521
2	4" PE Pipe Fiting x 4" Coupler	9361522
3	3" PE Pipe Sleeve	9361523
4	4" PE Pipe Sleeve	9361524

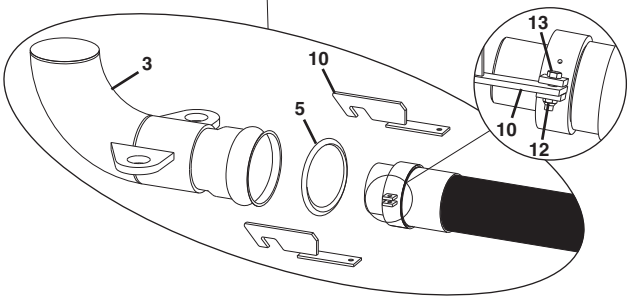
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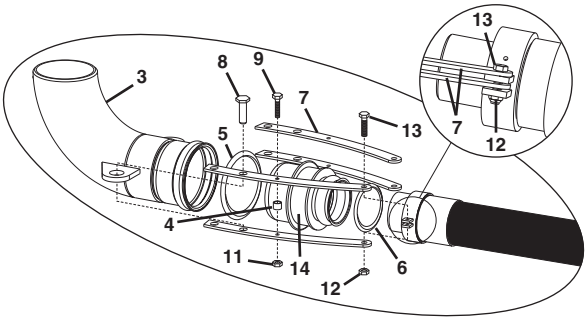


5.563" O.D. SDR11 or
6.625" O.D. SDR11
Poly Hose End

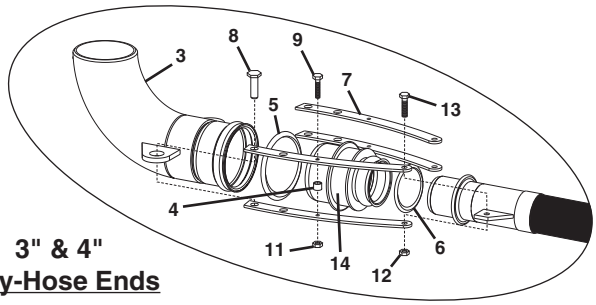


6" Poly-Hose End





4-3/4"
Poly-Hose Ends

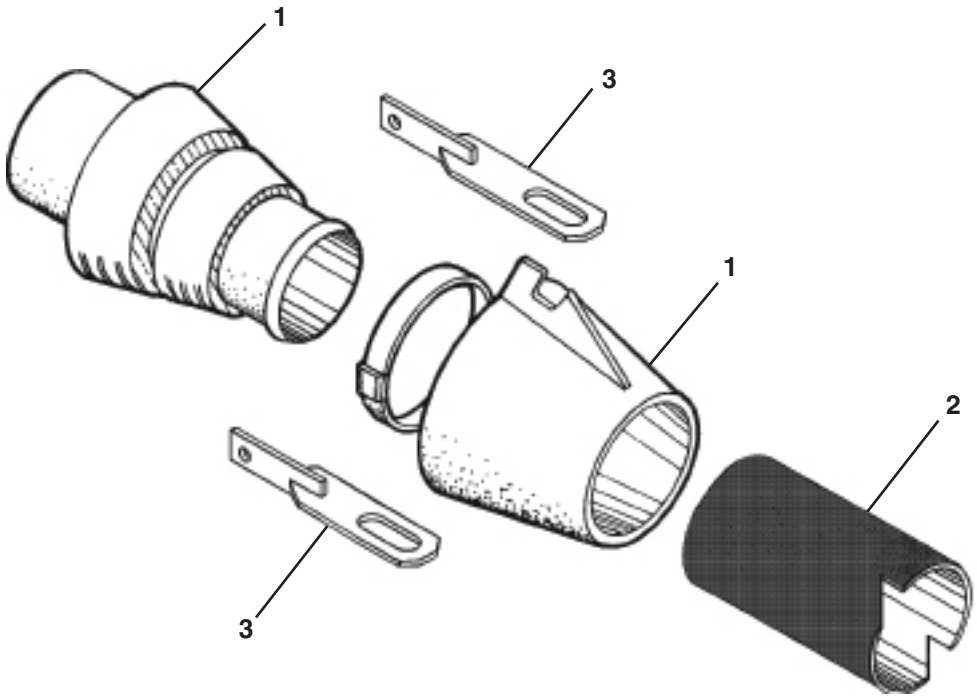


3" & 4"
Poly-Hose Ends

ITEM	DESCRIPTION	PART #
1	Lower Elbow Mount Assembly	9332196
2	6-5/8" Half Clamp	1700622
3	6" Inlet Elbow	9361789
4	Roller Bushing	1800207
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	2 Wheel Hook	9361552

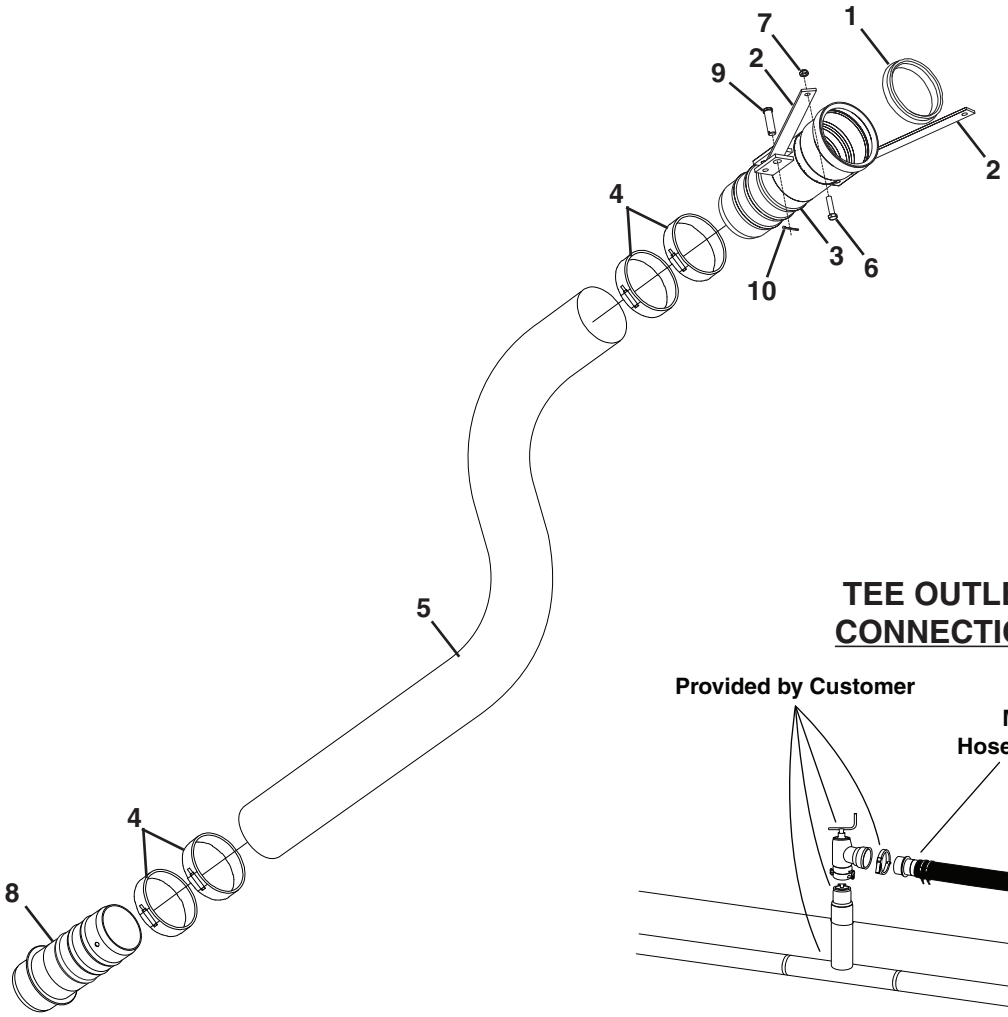
ITEM	DESCRIPTION	PART #
11	5/16" Lock Nut	0133007
12	1/2" Lock Nut	0133005
13	1/2" x 2" Cap Screw	0161024
14	4" to 6" Pierce Adapter	9361924
15	Poly Pipe End - 6" x SDR11	9332223
16	6" Groove Lock Elbow	9362602
17	Pull Strap	9332219
18	1/8" x 1-1/2" Cotter Pin	0151010
19	Pull Ring	9332221

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ITEM	DESCRIPTION	PART #
1	5" Coupler for Hosedrag	0993007
2	5" Soft Hose - 330 Ft.	0993011
3	Soft Hose Latch	9332077

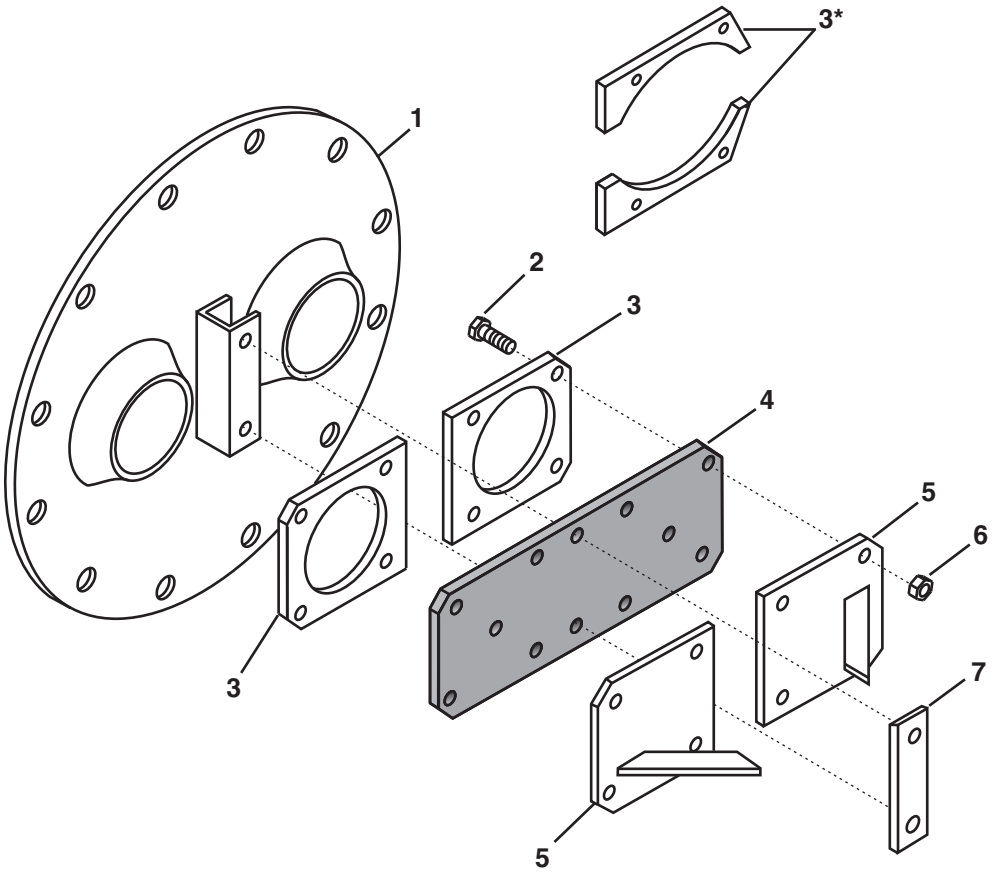
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TEE OUTLET CONNECTION

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

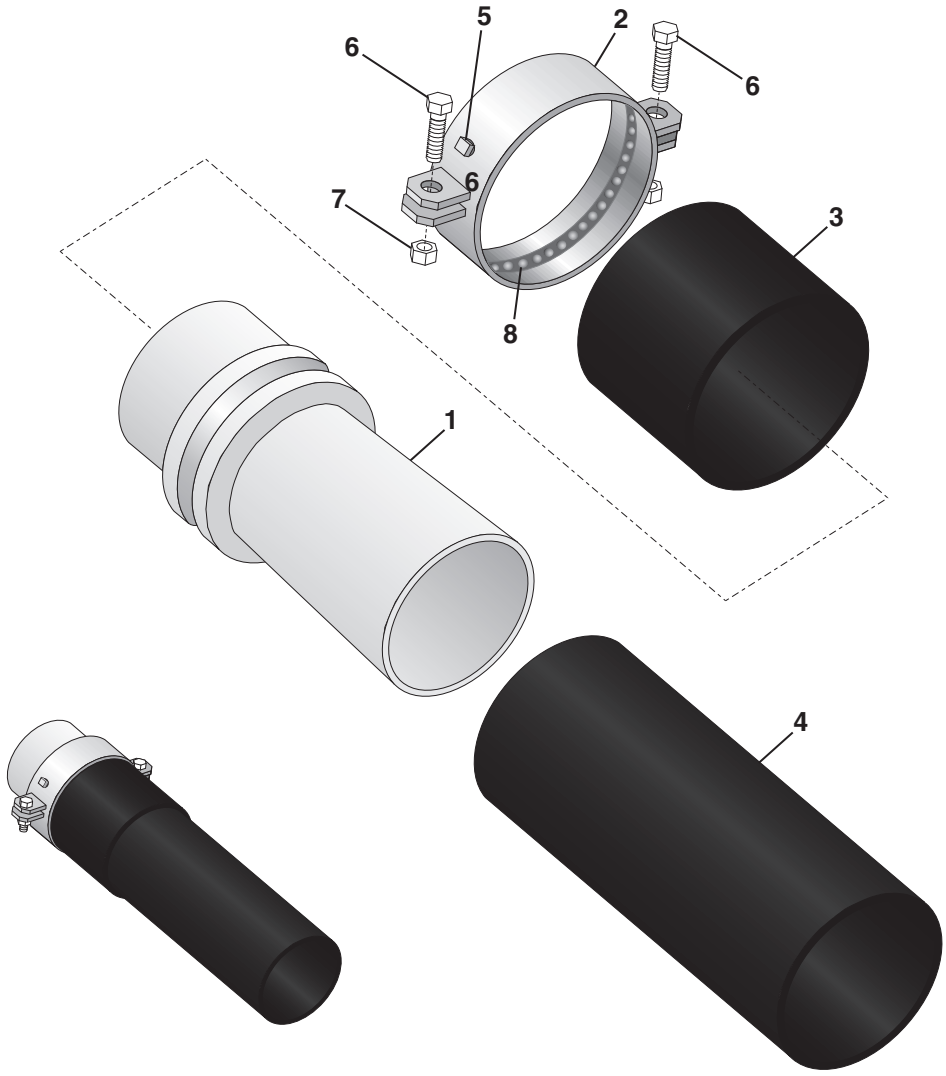
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ITEM	DESCRIPTION	4 3/4" HOSE	6" HOSE
1	End Cap Assembly	1732205	1732139
2	5/16" x 1" Cap Screw	0161052	0161052
3	Flapper Back	1732051	1732132
4	Flapper Gasket	0992332	0992551
5	Flapper Assembly	1732037	1732123
6	5/16" Lock Nut	0133007	0133007
7	Flapper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

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

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ITEM	DESCRIPTION	- 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*

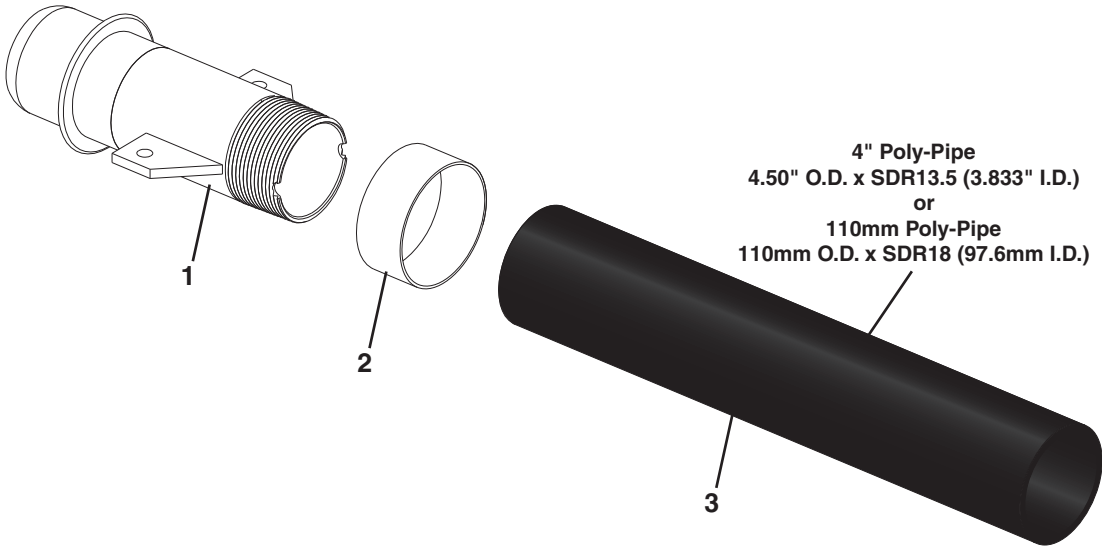
* NOTE: Part DISCONTINUED Dec 2015. Replace with 0992556.

** NOTE: Part OBSOLETED Jan 2018.

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

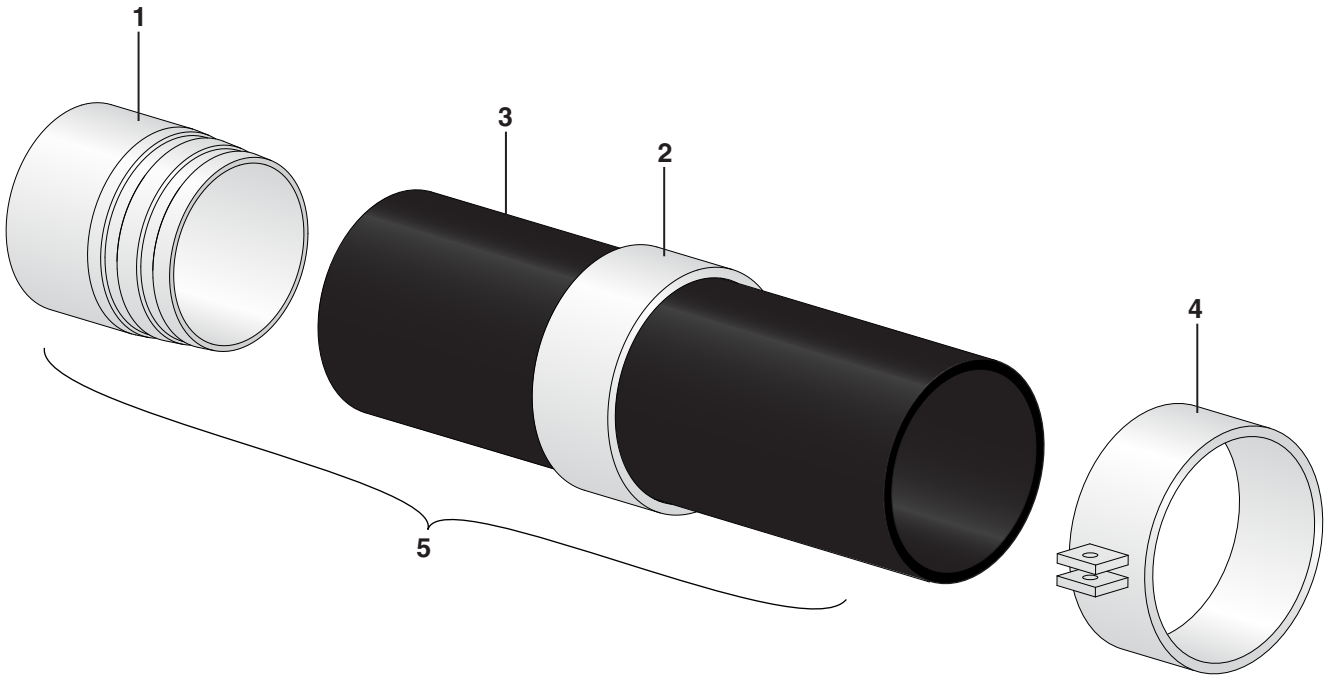
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NOTE: To field install place Sleeve over end of Poly-Pipe and screw Coupler inside Poly-Pipe.



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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EFFECTIVE
Jan 2010

ITEM	DESCRIPTION	8.625" O.D. HOSE (7.549" I.D.)	EFFECTIVE May 2016 6.625" O.D. SDR11 Poly (5.348" I.D.)	5.563" O.D. SDR11 (4.491" I.D.)
1	Poly Pipe End	9362576	9332226	9332250
2	Sleeve - Poly Pipe	9362577	9332224	9332251
3	Poly Pipe 30"	9362556	9332225	0999838
4	Pull Ring Assembly	9362575	9332221	9332253
5	Poly Pipe & Assembly (Incl. Items 1-3)	9362583	9332223	9332254
	39' Poly Pipe	0997119	0997928	0999836

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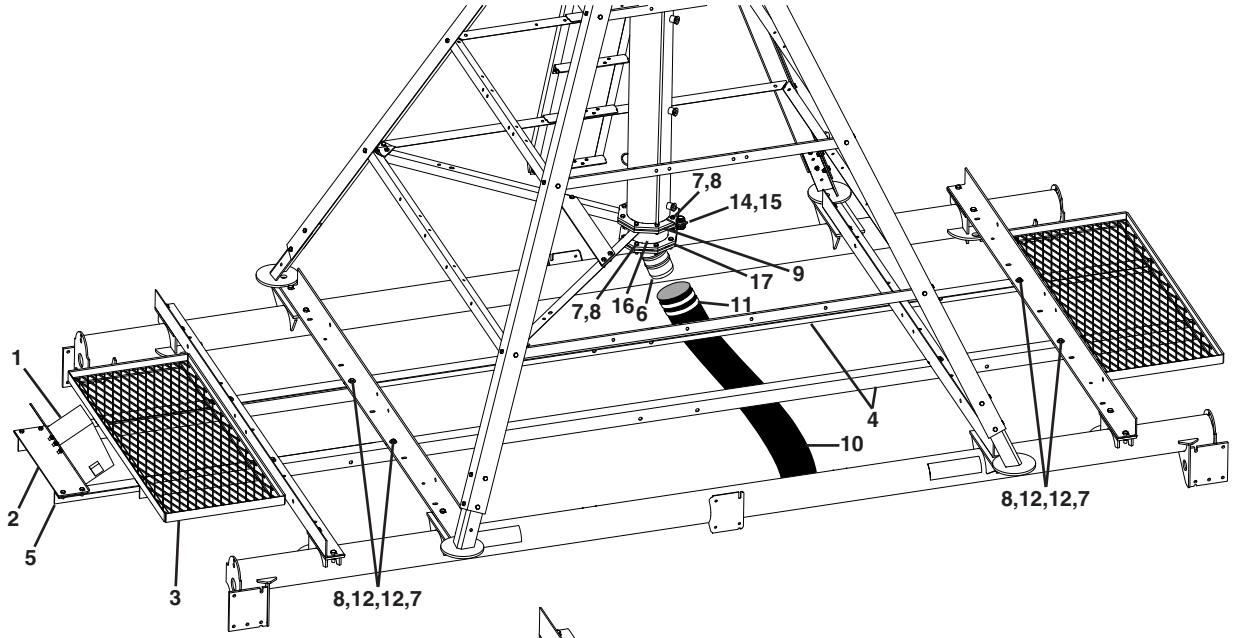
DITCH FEED

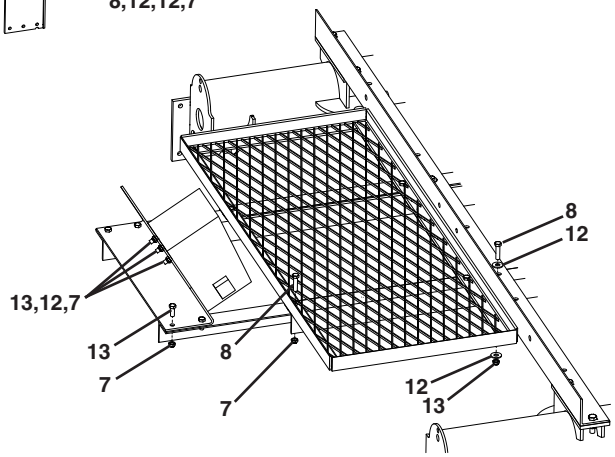
Universal Linear - Effective 6/06

Description	Rev. #	Pg. #
DITCH FEED		
Ditch Straddle Cart	04-16	3-3
Ditch Feed Inlet	07-13	3-4
Ditch Feed Inlet Parts Listing	07-17	3-5
Side Ditch Cart	04-16	3-6
Side Ditch Cart Parts Listing	07-13	3-7
Side Ditch Inlet	07-13	3-8
Single Inlet w/Two Section Frame	06-06	3-9
Self-Cleaning Inlet Spraybars and Plumbing	07-16	3-10
12" Ditch Moveable Dam	06-06	3-11
24" Ditch Moveable Dam	06-06	3-12
Moving Dam Lift	06-06	3-13
OPTIONS		
Power Pedestal Mounting	02-10	3-14
Cable Kit Usage Chart	02-10	3-15

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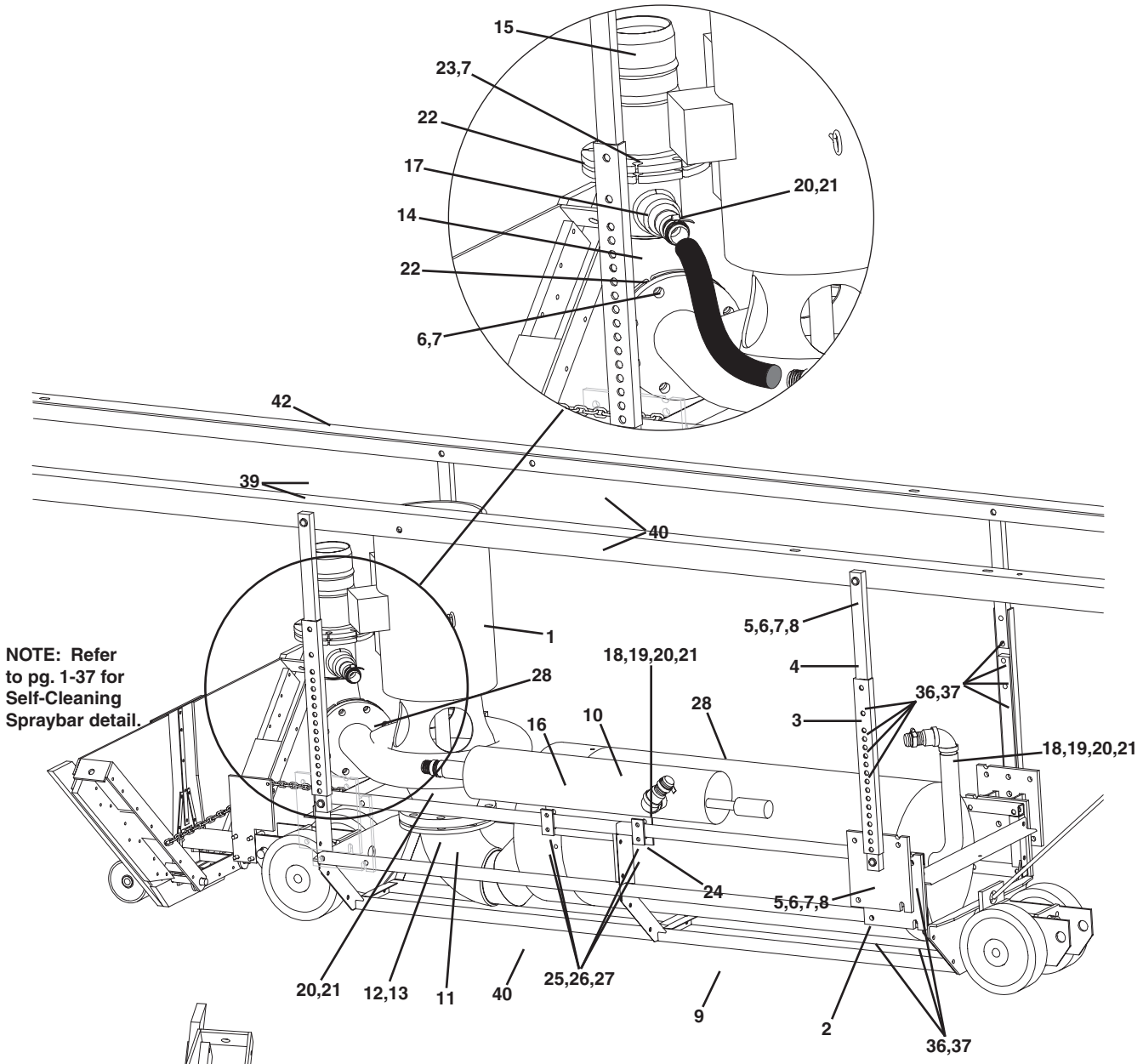
8UL030018
10-18

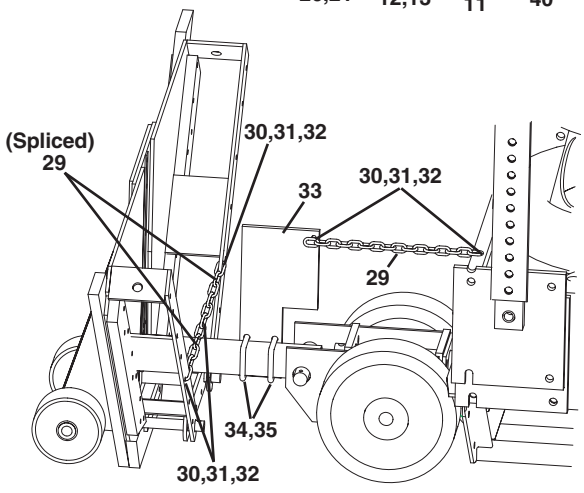




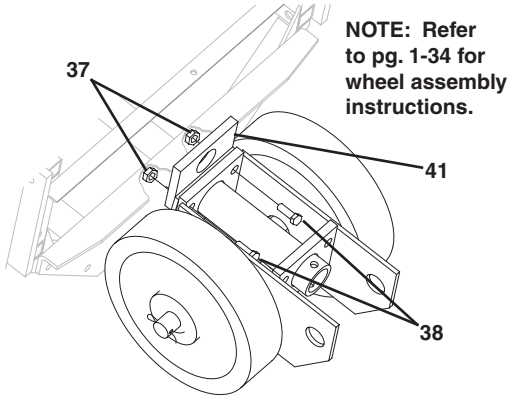
ITEM	DESCRIPTION	PART #
1	Electric Winch - 12V	0995586
2	Winch Mount Plate	9332139
3	Maintenance Platform	9330203
4	Link Attachment Beam	9332106
5	Winch Attachment Angle	9332147
6	8" Pipe to 5" Hose Transition	9332115
7	1/2" Locknut	0133005
8	1/2" x 2" Cap Screw	0161024
9	8-5/8" Pipe Flange Gasket	0994500
10	Soft Hose 5" I.D. x 84"	0995607
11	T-Bolt Clamp 5" Hose	0995199
12	1/2" Flat Washer	0142026
13	1/2" x 1-1/4" Cap Screw	0161027
14	Strain Relief Mount Plate	9332149
15	1" Strain Relief Hub	0314466
16	8" Spool w/8" & 8-5/8" Flange - 4-1/2" Long	9364331
17	8" Pipe Gasket	0992439

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DAM SUPPORT DETAIL

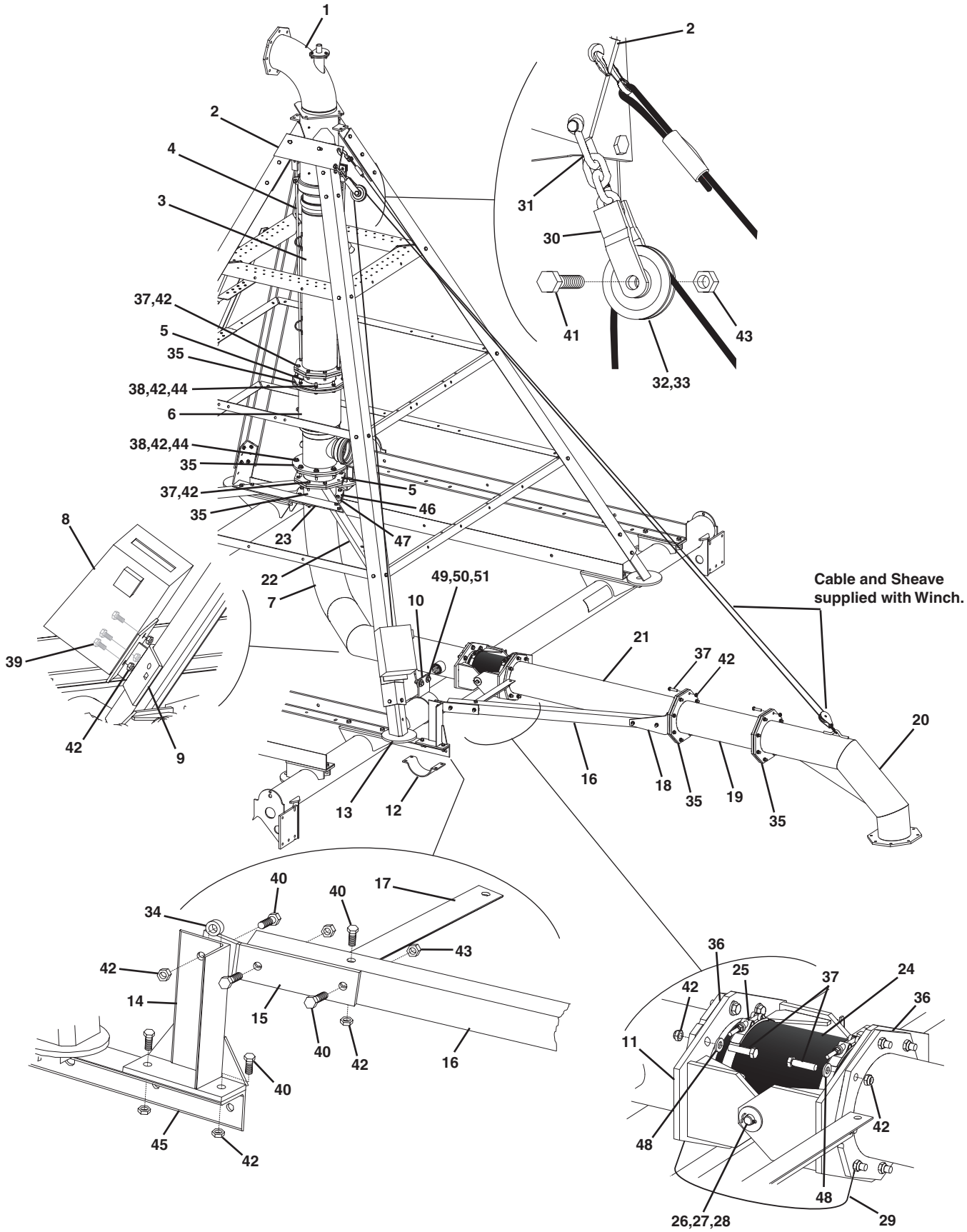


LIFTING TAB ATTACHMENT DETAIL

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ITEM	DESCRIPTION	PART #
1	4RB Pump/Motor Assm. - 10hp/8" Trim, R5 disch	0995588
	4RB Pump/Motor Assm. - 15hp/8.5" Trim, R5 disch	0995693
	4RB Pump/Motor Assm. - 20hp/9" Trim, R5 disch	0995694
	4RB Pump/Motor Assm. - 20hp/9/5" Trim, R5 disch	0995695
	4RB Pump/Motor Assm. - 20hp/10.75" Trim, R5 disch	0998235
	4RB Pump/Motor Assm. - 25hp/10" Trim, R5 disch	0995696
	4RB Pump/Motor Assm. - 25hp/10.5" Trim, R5 disch	0995697
2	Inlet Attachment Stand-off Assembly	9332110
3	Adjustable Link Connector	9332134
4	Link Arm	9332107
5	Link Arm Bushing	9332105
6	5/8" x 2-3/4" Cap Screw	0162015
7	5/8" Lock Nut	0133010
8	5/8" Flat Washer	0142011
9	Frame Section	9330093
10	Rolling Inlet Shroud	9330119
11	6" Gasket	0992278
12	3/4" x 3" Cap Screw	0161007
13	3/4" Lock Nut	0133011
14	4" Elbow Assembly	9332129
15	4" Pipe to 5" Hose Transition Assembly	9332133
16	Self-cleaning Inlet Supply Line Filter	0995486
17	Reducer Bushing, 2" to 1-1/2" NPT	0244030
18	1-1/2" Close Nipple	0211078
19	1-1/2" x 90^{O} Elbow	0241087
20	Hose Barb	0271026
21	1-1/2" Hose Clamp	0271091
22	4" Gasket	1731339
23	5/8" x 2-1/2" Cap Screw	0161011
24	Support Tab	9330094
25	3/8" x 2-1/2" Cap Screw	0161039
26	3/8" Lock Nut	0133006
27	3/8" Flat Washer	0142031
28	1-1/2" Hose x 120"	0995606
29	Dam Support Chain	0323064
30	1/4" x 1" Cap Screw	0161056
31	1/4" Lock Nut	0133008
32	1/4" Flat Washer	0142022
33	Dam Support Arm	9332138
34	3/8" x 2" x 3" U-Bolt	0176053
35	3/8" Lock Nut	0133006
36	1/2" x 2-1/2" Cap Screw	0161023
37	1/2" Lock Nut	0133005
38	1/2" x 2" Cap Screw	0161024
39	T-Bolt Clamp 5" Hose	0995199
40	Center Frame Assembly	9330108
41	Lifting Tab	9332145
42	5" x 84" Soft Hose	0995607

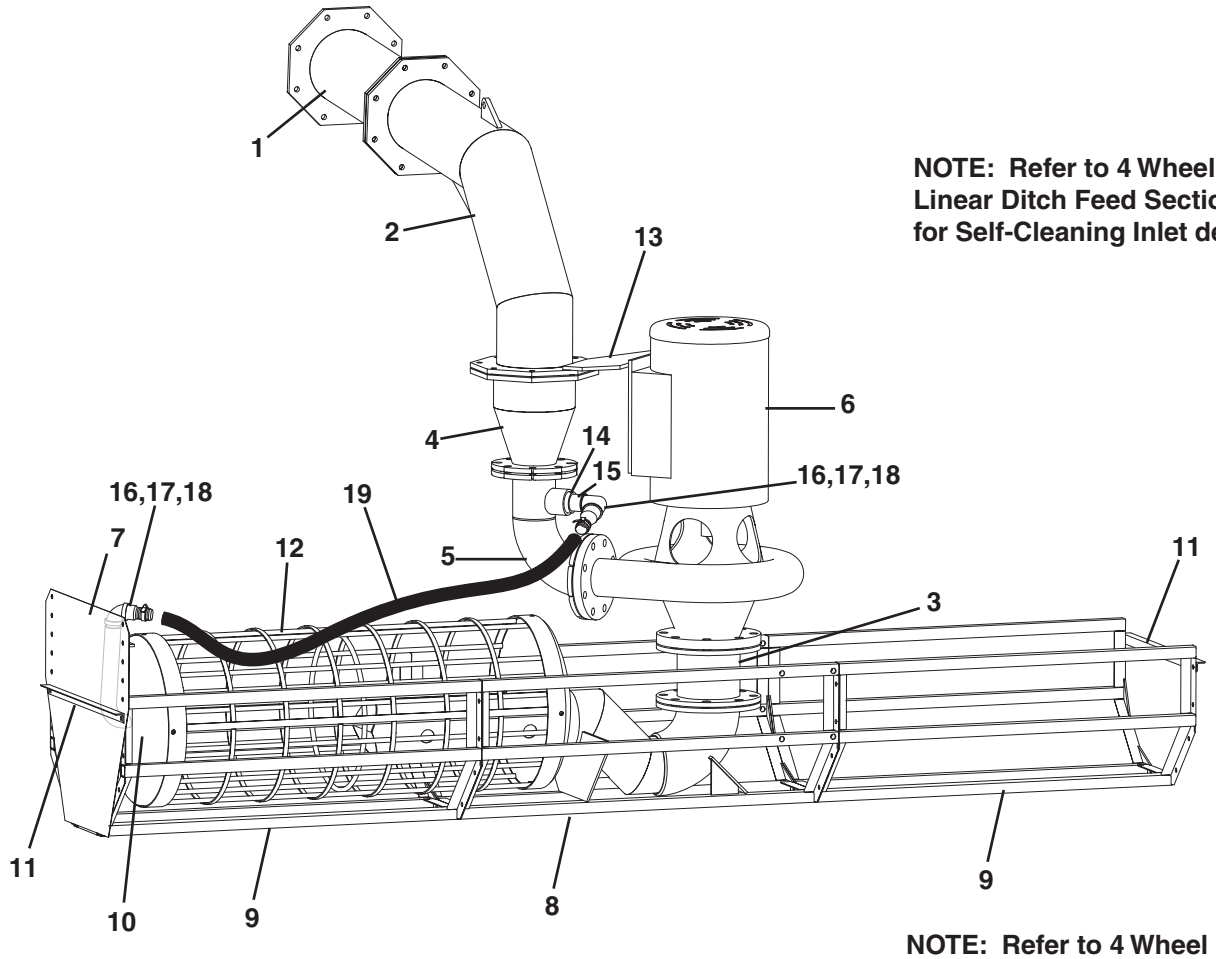
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ITEM	DESCRIPTION	PART #
1	8” Pivot Swivel	9361392
2	Winch Pulley Bracket	9330165
3	8” Riser Pipe - Standard Profile	9361365
	8” Riser Pipe - Low Profile (w/Chem Valve)	9361364
4	Tie Rod - Standard Profile	9361374
	Tie Rod - Low Profile (w/Chem Valve	9361373
5	8” Ansi x 8” Valmont Adaptor Pipe (Chem Valve Option)	9334322
6	8” Check Valve (Chem Valve Option)	0994425
7	8” Ansi Flange Inlet Elbow	9330183
8	Double Pull Winch - 12V, 60Amp	0995586
9	Winch Mounting Plate	9364308
10	Inlet Mounting Bracket	9330186
11	8" & 8-5/8" Pivot Flex Assembly	9361768
12	Clamp - 4” Wide, 6-5/8” Dia	1700622
13	Pivot Foot Assembly	1704017
14	Hinge Bracket Assembly	9330225
15	Brace Hinge	9330228
16	Brace Angle	9330227
17	Brace Knee	9330229
18	Brace Bracket	9330226
19	8” Ansi Flange Spool Pipe - 24” Long	9330180
	8” Ansi Flange Spool Pipe - 40” Long	9330204
20	6” Inlet Pipe Assembly (Ditch Feed)	9330174
21	8” Ansi x 8” Valmont Inlet Pipe	9330178
22	8” Riser Pipe Support	9361586
23	Truss Gusset	1701659
24	8” Hose	1780265
25	8” Flex Joint Clamp	0991147
26	3/4” x 2” Pin	0112037
27	3/4” Flat Washer	0142021
28	1/8” x 1-1/2” Stainless Steel Cotter Pin	0151010
29	Electrical Lead, Green - 10Ga. 42”	1811173
30	Pulley Housing w/Chain	9330219
31	Chain Shackle	0992947
32	Sheave - Plastic	1915646
33	Bushing	0192028
34	Flex Joint Bushing	1730525
35	8” Ansi Gasket	1730786
36	8” & 8-5/8" Universal Rubber Gasket	0996566
37	1/2” x 2” Cap Screw	0161024
38	1/2” x 2-1/2” Cap Screw (w/Chem Valve)	0161023
39	1/2” x 1-1/4” Cap Screw	0161027
40	1/2” x 1-1/2” Cap Screw	0161026
41	5/8” x 2-1/4” Cap Screw	0161010
42	1/2” Lock Nut	0133005
43	5/8” Lock Nut	0133010
44	1/2” Washer (w/Chem Valve)	9330220
45	Hinge Mount	9330221
46	8" Spool w/8" & 8-5/8" Flange - 4-1/2" Long	9364331
47	8" Pipe Gasket	0992439
48	1/2" Flat Washer	0142025
49	5/8" x 1-3/4" Cap Screw	0161088
50	5/8" Flat Washer	0142011
51	5/8" Lock Nut	0133010

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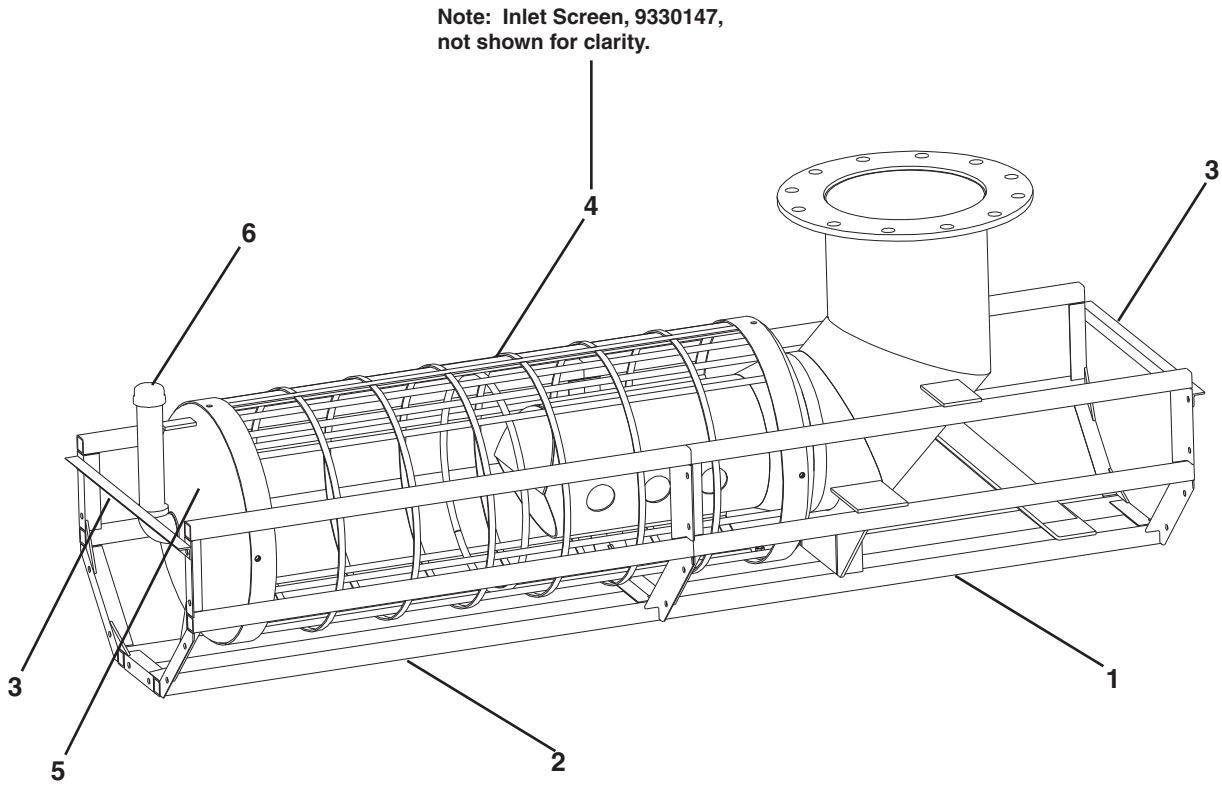
NOTE: Refer to 4 Wheel Linear Ditch Feed Section for Self-Cleaning Inlet detail.

NOTE: Refer to 4 Wheel Linear Ditch Feed Section for Floats and Hardware detail.

ITEM	DESCRIPTION	PART #
1	8" Flange Spool Pipe - 24" Long	9330180
	8" Flange Spool Pipe - 1m Long	9330204
2	8" Inlet Pipe	9330174
3	6" Spool Pipe	9330168
4	8" x 4" Reducer Assembly	1731336
5	4" Elbow Assembly	9332129
6	10HP 4RB Pump 8.0" Trim	0995588
	15HP 4RB Pump 8.5" Trim	0995693
	20HP 4RB Pump 9.0" Trim	0995694
	20HP 4RB Pump 9.5" Trim	0995695
	20HP 4RB Pump 10.75" Trim	0998235
	25HP 4RB Pump 10.0" Trim	0995696
	25HP 4RB Pump 10.5" Trim	0995697
7	Inlet Trash Guard	9330120
8	Center Frame Assembly	9332119

ITEM	DESCRIPTION	PART #
9	Frame Section	9330093
10	Outer End Inlet Bell Assembly	9330070
11	Top Angle	9330088
12	Inlet Frame Assembly (w/Screen)	9330153
	Inlet Screen Only	9330147
13	10HP Motor Bracket	9330235
	15/20HP Motor Bracket	9330217
	25HP Motor Bracket	9330211
14	2" to 1-1/2" Reducer Bushing	0244030
15	1-1/2" Close Nipple	0211078
16	1-1/2" x 90^{O} Elbow	0241087
17	Hose Barb	0271026
18	1-1/2" Hose Clamp	0271091
19	1-1/2" x 6' Hose	9330243

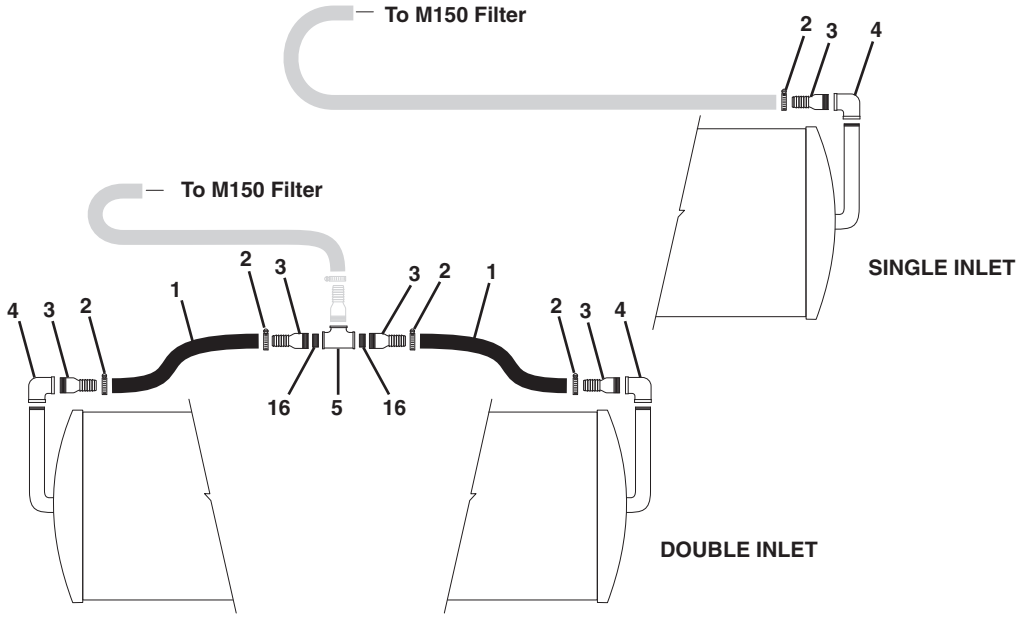
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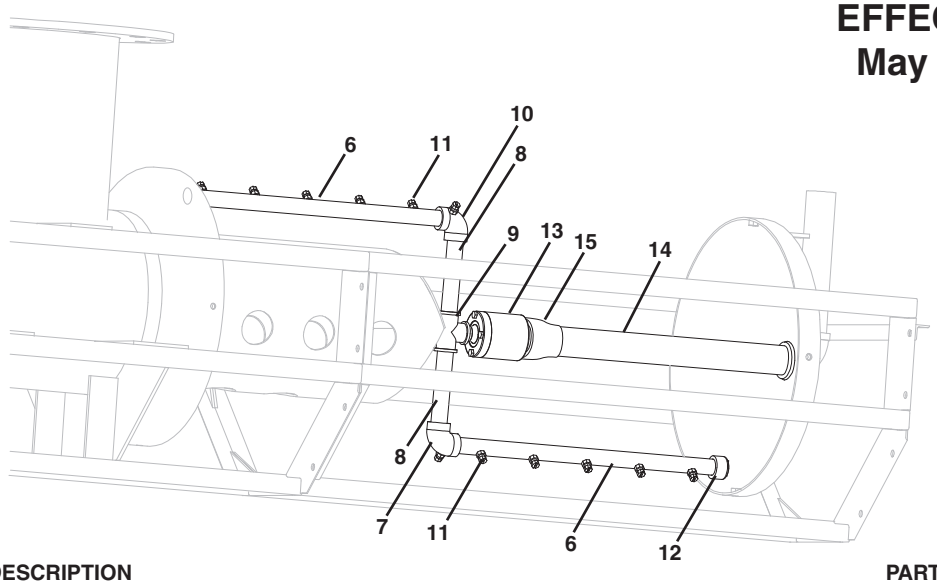
(Non Self-Cleaning Inlet Shown Above)

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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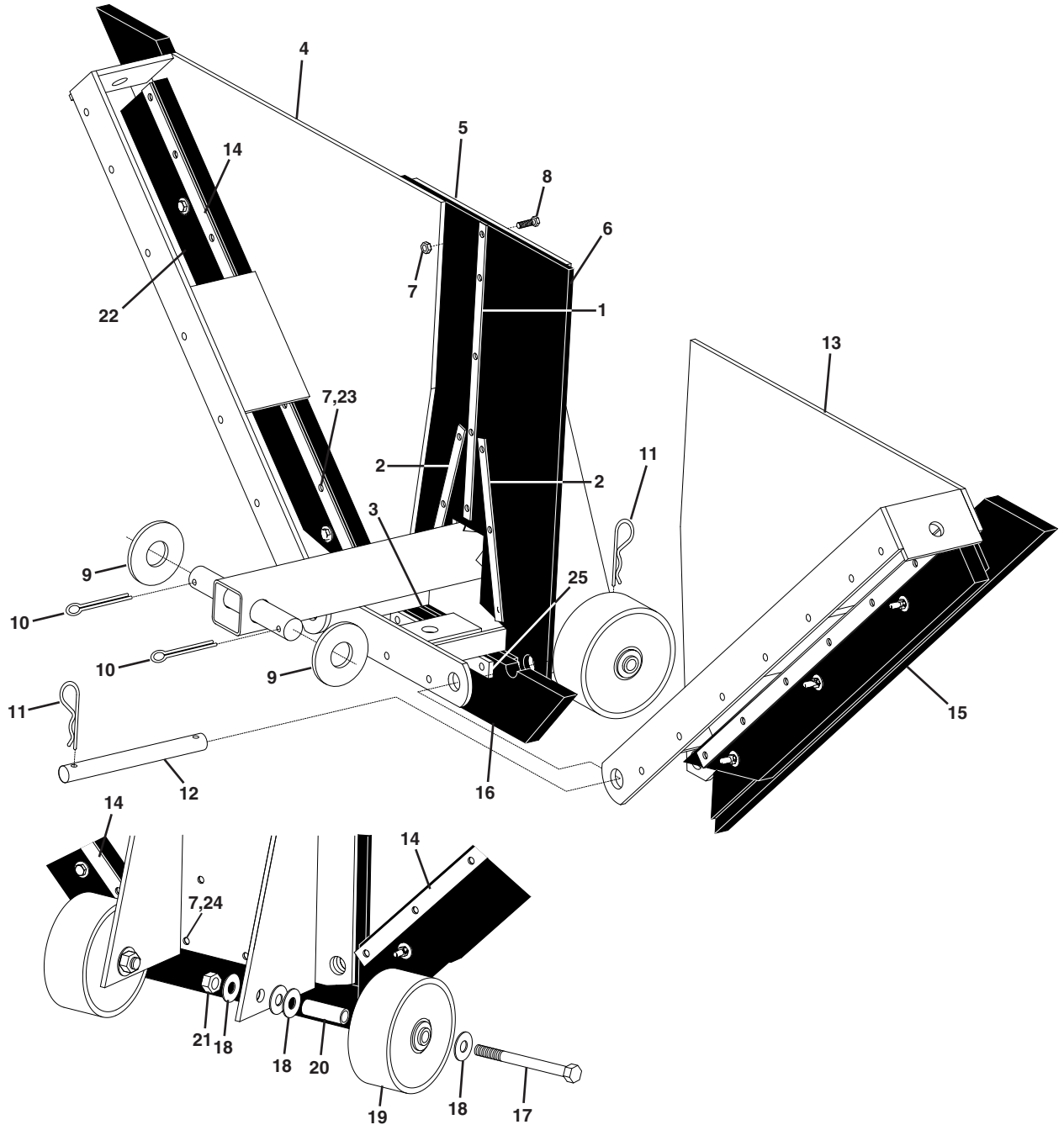
EFFECTIVE
May 2000



ITEM	DESCRIPTION	PART #
1	1-1/2" Contractor Hose - 40' Lg (Double Inlet)	0272037
	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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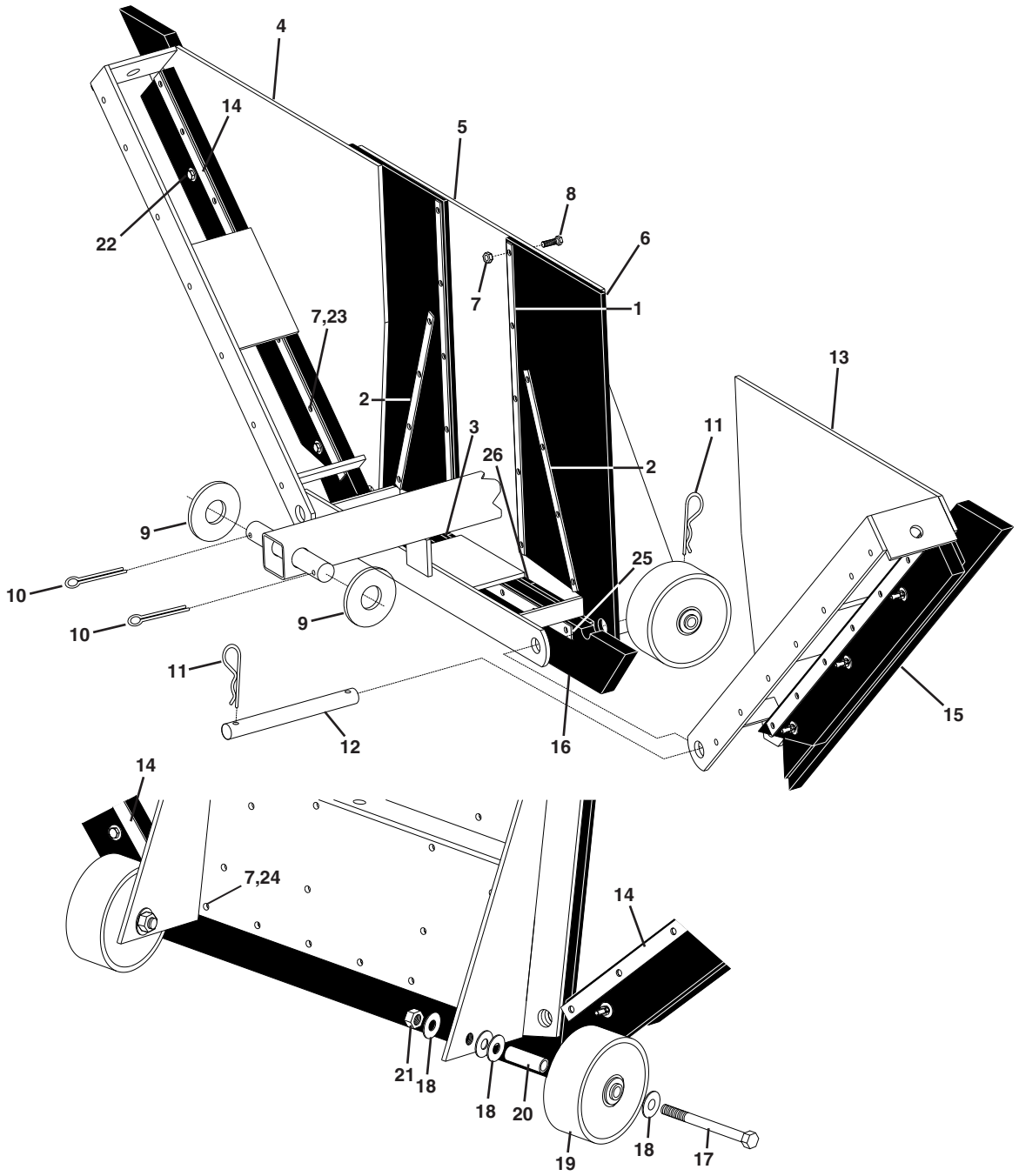
Functional Area	Assembly / Part	Rev# 06-06
Ditch Feed	12" Ditch Moveable Dam	



ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Long Center Tie Down	1730906	14	Wing Tie Down	1730907
2	Short Center Tie Down	1730471	15	R.H. Outer Wing Gasket	1731157
3	Center Gasket	1731164	16	Front Gasket	1731163
4	Left Hand Wing Assemby	1730901	17	1/2" x 4-1/2" Cap Screw	0161110
5	Center Section Assembly	1731251	18	1/2" Flat Washer	0142025
6	Center Section Gasket	1731162	19	Wheel - 5" Dia.	1731240
7	1/4" Hex Nut	0131020	20	Wheel Bushing	1731225
8	1/4" x 1" Cap Screw	0161056	21	1/2" Hex Nut	0133005
9	1" Washer	0142020	22	L.H. Outer Wing Gasket	1731158
10	3/16" x 2" Cotter Pin	0151015	23	1/4" x 2-1/2" Cap Screw	0161054
11	5/32" Hair Pin	0181034	24	1/4" x 2" Cap Screw	0161055
12	Wing Pin	1730467	25	Short Tie Down	1730468
13	Right Hand Wing Assembly	1730903			

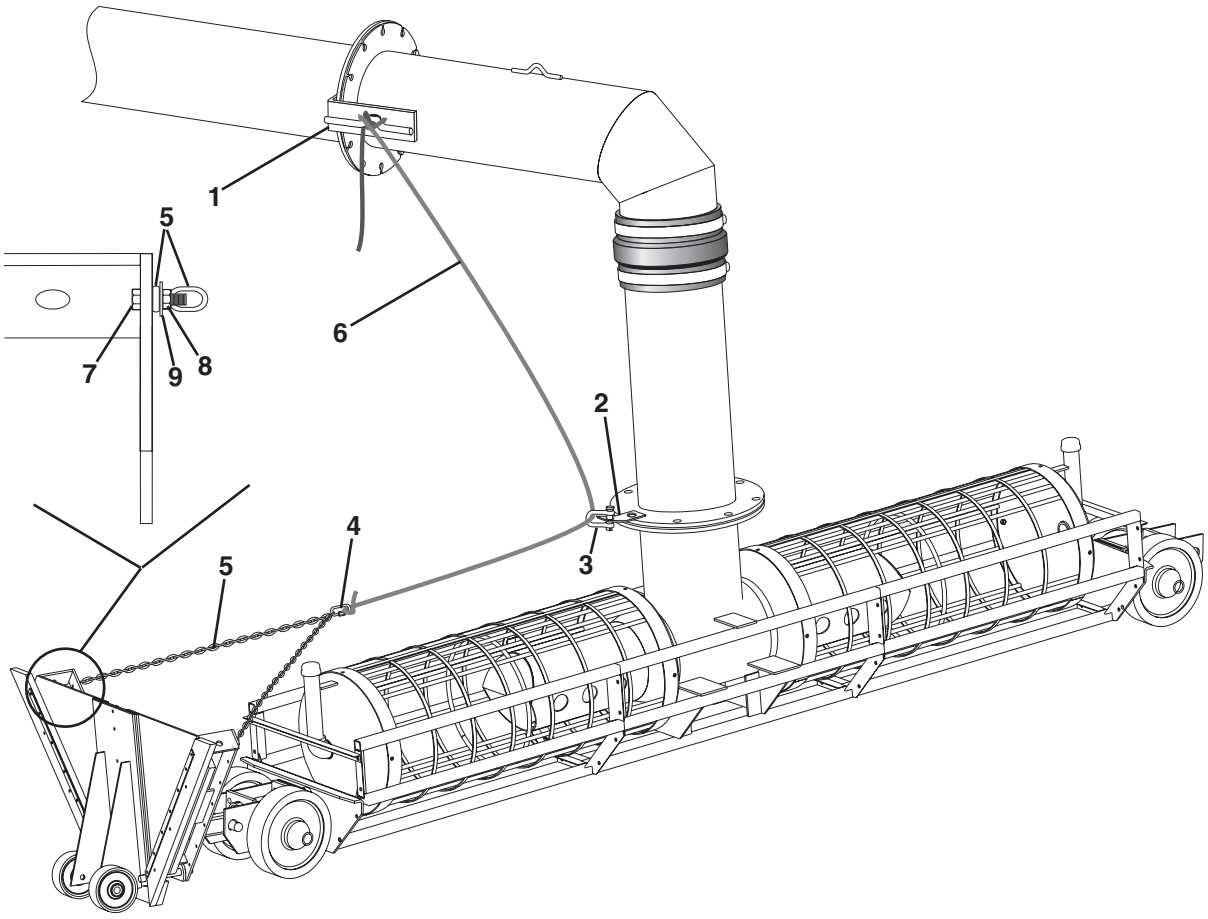
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Functional Area	Assembly / Part	Rev# 06-06
Ditch Feed	24" Ditch Moveable Dam	



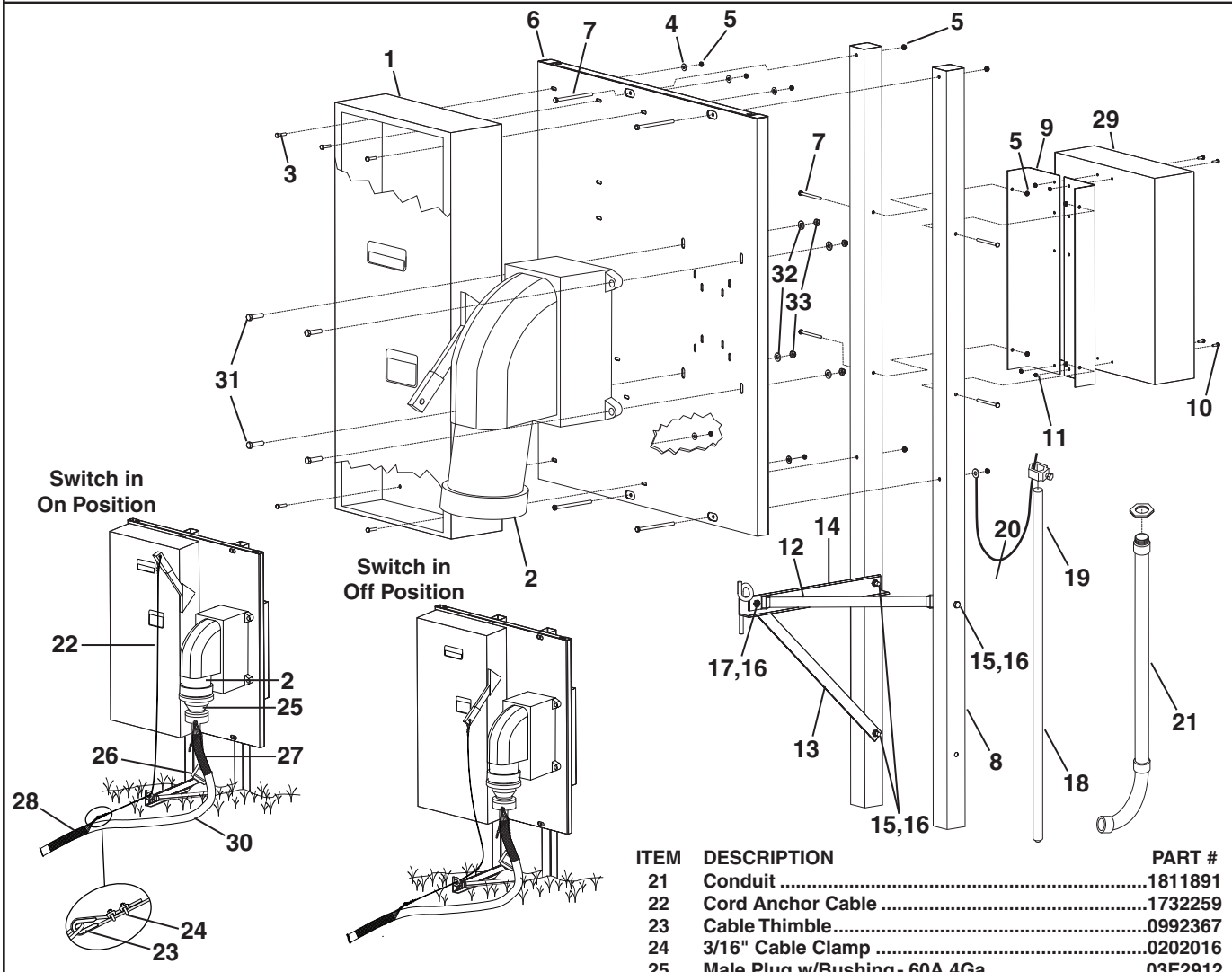
ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Long Center Tie Down	9330039	14	Wing Tie Down	1730907
2	Short Center Tie Down	9330042	15	R.H. Outer Wing Gasket	1731157
3	Center Gasket	9330038	16	Front Gasket	9330044
4	Left Hand Wing Assemby	1730901	17	1/2" x 4-1/2" Cap Screw	0161110
5	Center Section Assembly	9330040	18	1/2" Flat Washer	0142025
6	Center Section Gasket	9330043	19	Wheel - 5" Dia.	1731240
7	1/4" Hex Nut	0131020	20	Wheel Bushing	1731225
8	1/4" x 1" Cap Screw	0161056	21	1/2" Hex Nut	0133005
9	1" Washer	0142020	22	L.H. Outer Wing Gasket	1731158
10	3/16" x 2" Cotter Pin	0151015	23	1/4" x 2-1/2" Cap Screw	0161054
11	5/32" Hair Pin	0181034	24	1/4" x 2" Cap Screw	0161055
12	Wing Pin	1730467	25	Center Tie Down	9330041
13	Right Hand Wing Assembly	1730903	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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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							
		Pedestal		Cart			
Motor Used		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

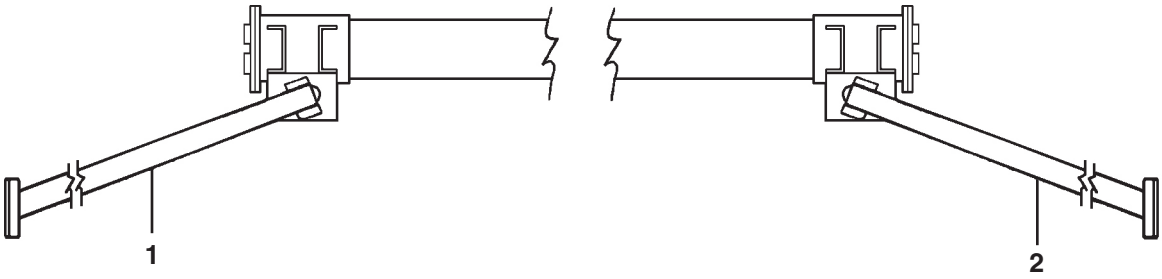
Universal Linear - Effective 1-18

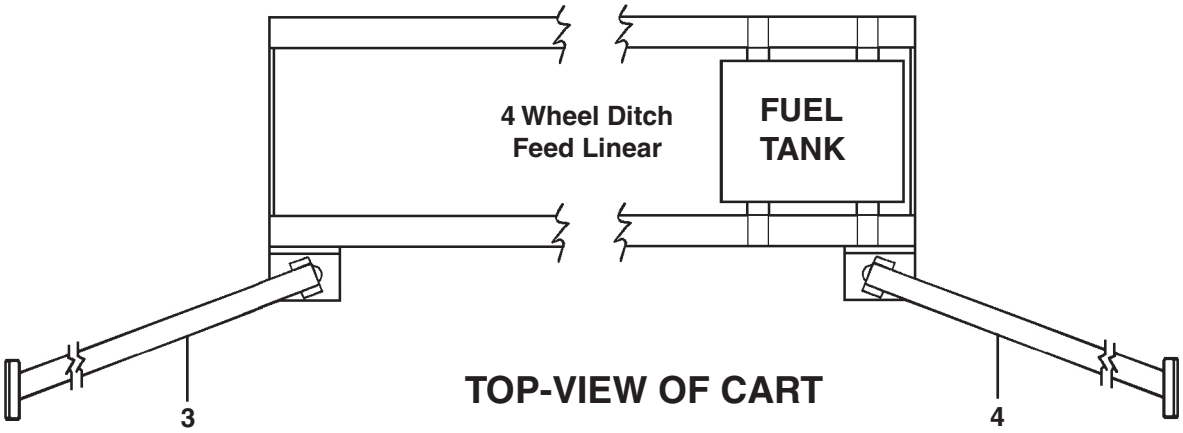
Cable Guidance Box Supports 01-97 4-3
Steering/Safety Box 03-17 4-4
Cable and Posts 01-97 4-5
Guidance Cable and Cable Splices 01-97 4-6
Outside and Inside Cart Guidance 07-13 4-7
Cable and Furrow Guidance 07-13 4-8
Furrow Guidance D / U Mounted
- EFFECTIVE June 01 ..... 01-18 4-9
Below Ground Guidance 05-01 4-10
Below Ground Guidance 12-15 4-11
Furrow Guidance Switch Box 12-17 4-12
Cart Mounted Furrow Guidance 10-02 4-13
Cart Mounted Furrow Guidance (cont'd) 10-02 4-14
Oscillator Enclosure - Below Ground Guidance 05-18 4-15
Solar Powered Oscillator Pedestal 04-19 4-16
Guidance Controls 06-16 4-17
Linear Span Tower Box 09-18 4-18

For older versions of product design refer to "PRIOR TO" pages in corresponding section in 8000/8120 Linear Manual.

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4 Wheel Hose Drag

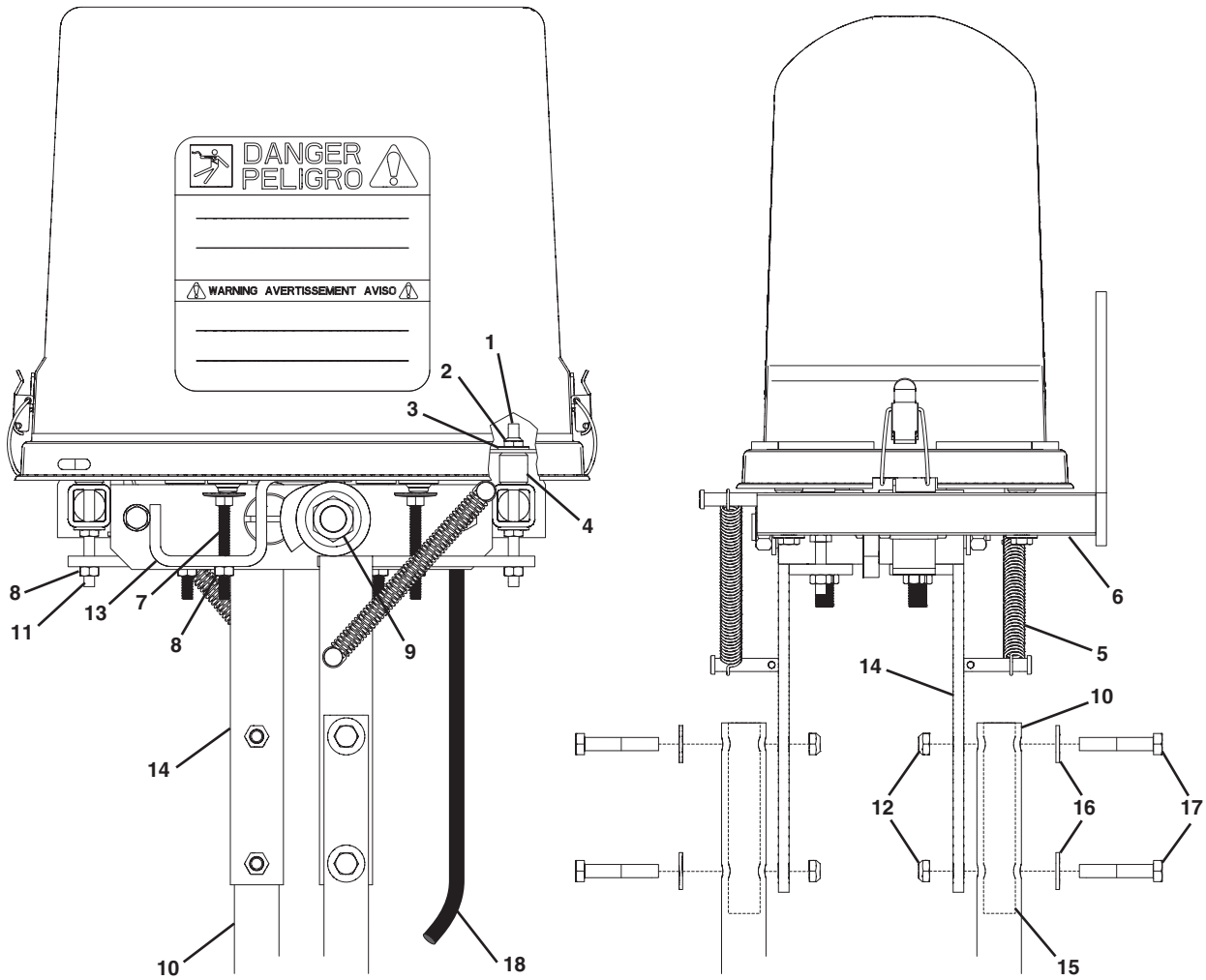




TOP-VIEW OF CART

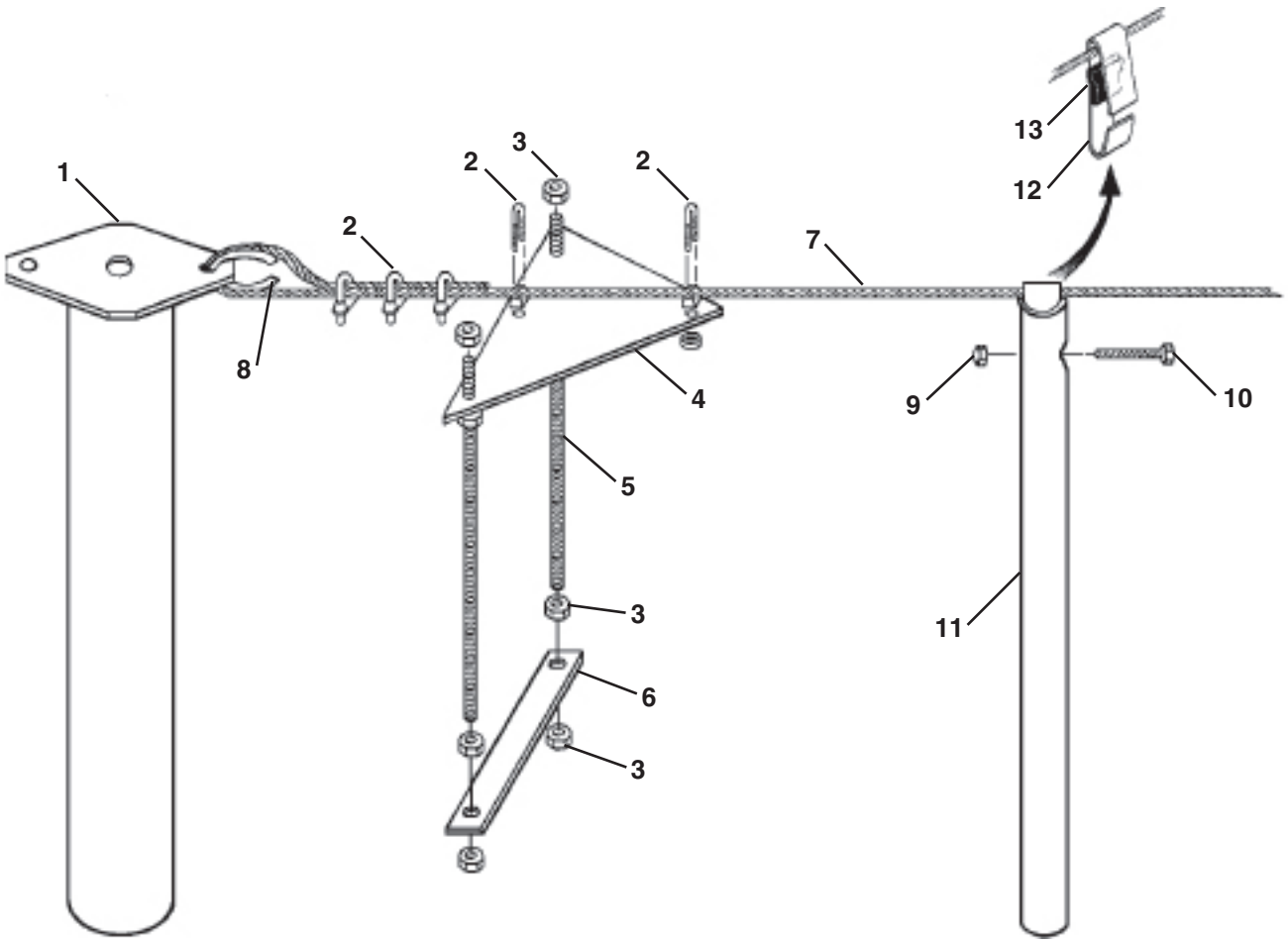
ITEM	DESCRIPTION	PART #
1	Left Guidance Support (4" Hose Drag)	1732080
	Left Guidance Support (6" Hose Drag)	1732138
2	Right Guidance Support (4" Hose Drag)	1732081
	Right Guidance Support (6" Hose Drag)	1732137
3	Long Guidance Support	1730618
4	Short Guidance Support	1730619

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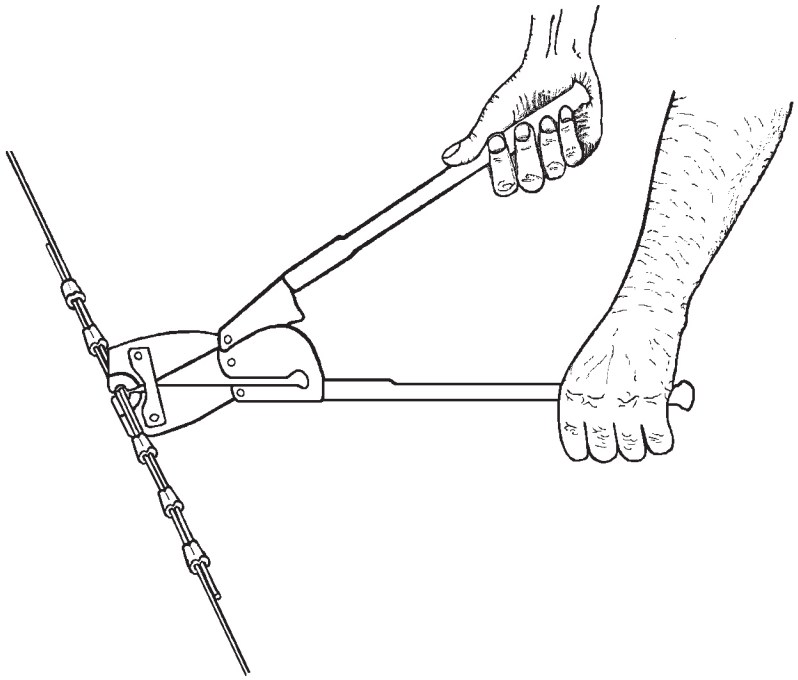
ITEM	DESCRIPTION	PART #
1	1/4" x 2-1/2" Cap Screw	0161054
2	1/4" Lock Nut	0133008
3	1/4" Flat Washer	0142022
4	Spacer Sleeve	1730727
5	Spring	0181089
6	Mounting Bracket Assm.	1730711
7	1/4" x 2-1/2" Elevator Bolt	0164219
8	1/4" Hex Nut	0131020
9	5/8" x 3" Screw - Flat Head	0164138
10	Control Arm Extension	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 1-3/4" Cap Screw	0161095
18	Electrical Cable 11 Cond. 10 Ga. 27' Long	1811641
	Steering Safety Box Assm.	1812244

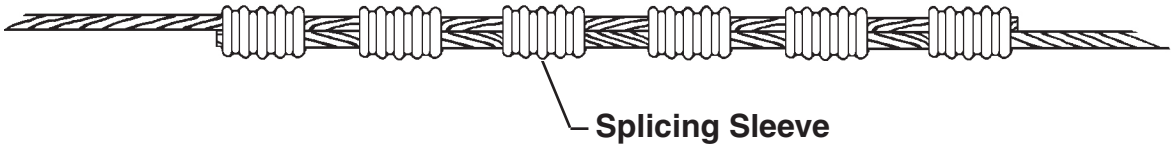
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ITEM	DESCRIPTION	PART #
1	Cable Anchor Post	1732057
2	3/16" Cable Clamp	0202016
3	3/4" Hex Nut	0131008
4	End of Field Stop	1732073
5	Guide Rod 3/4" - 10 NC x 3' Long	0036024
6	Counter Balance	1732072
7	Cable (5,000 Ft.) 3/16 x 1 x 7	0201005
8	3/16" 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

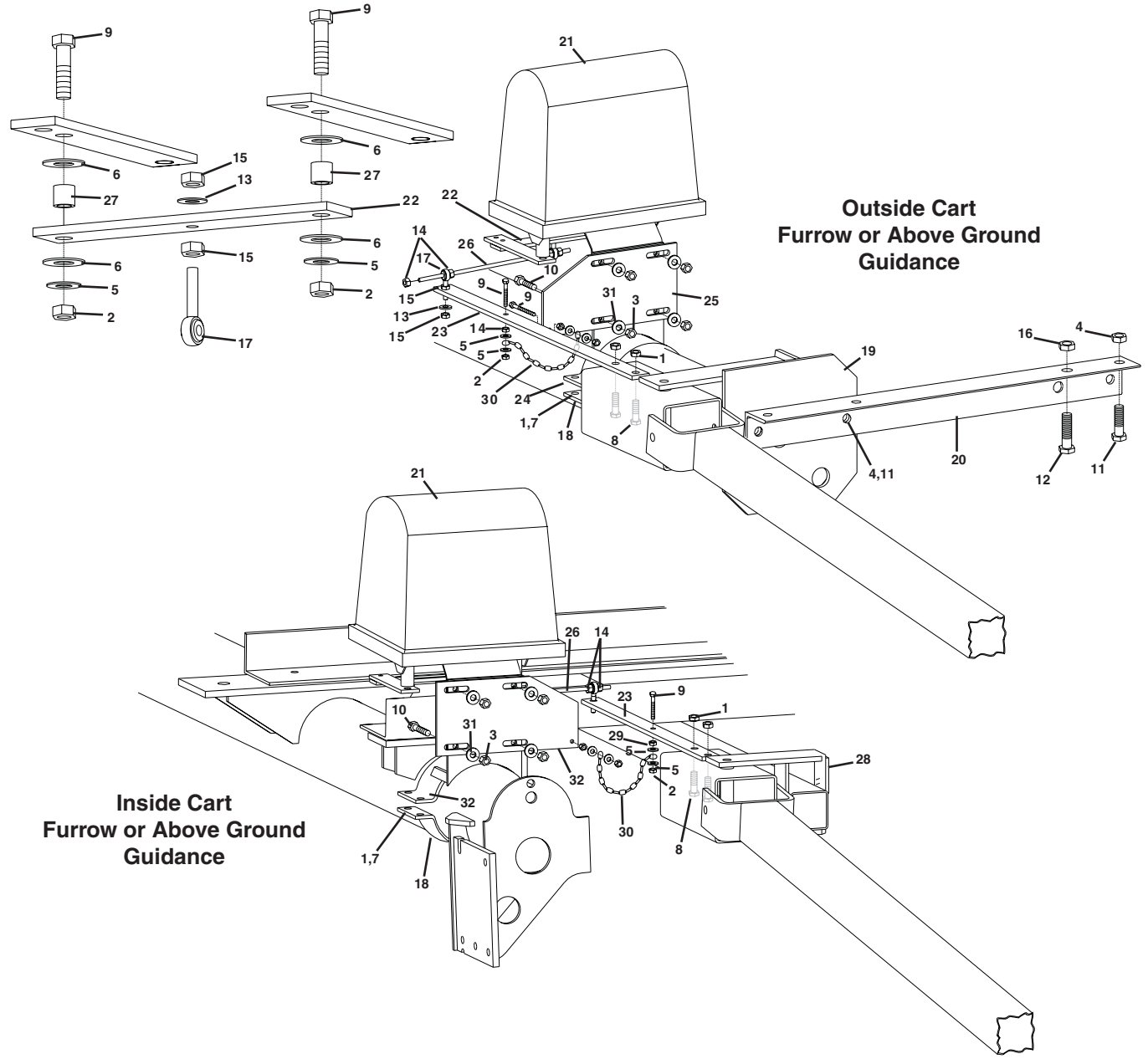
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DESCRIPTION	PART #
2,000' Cable	1730702
500' Cable	1730701
3/16" Splicing Sleeve	0992532

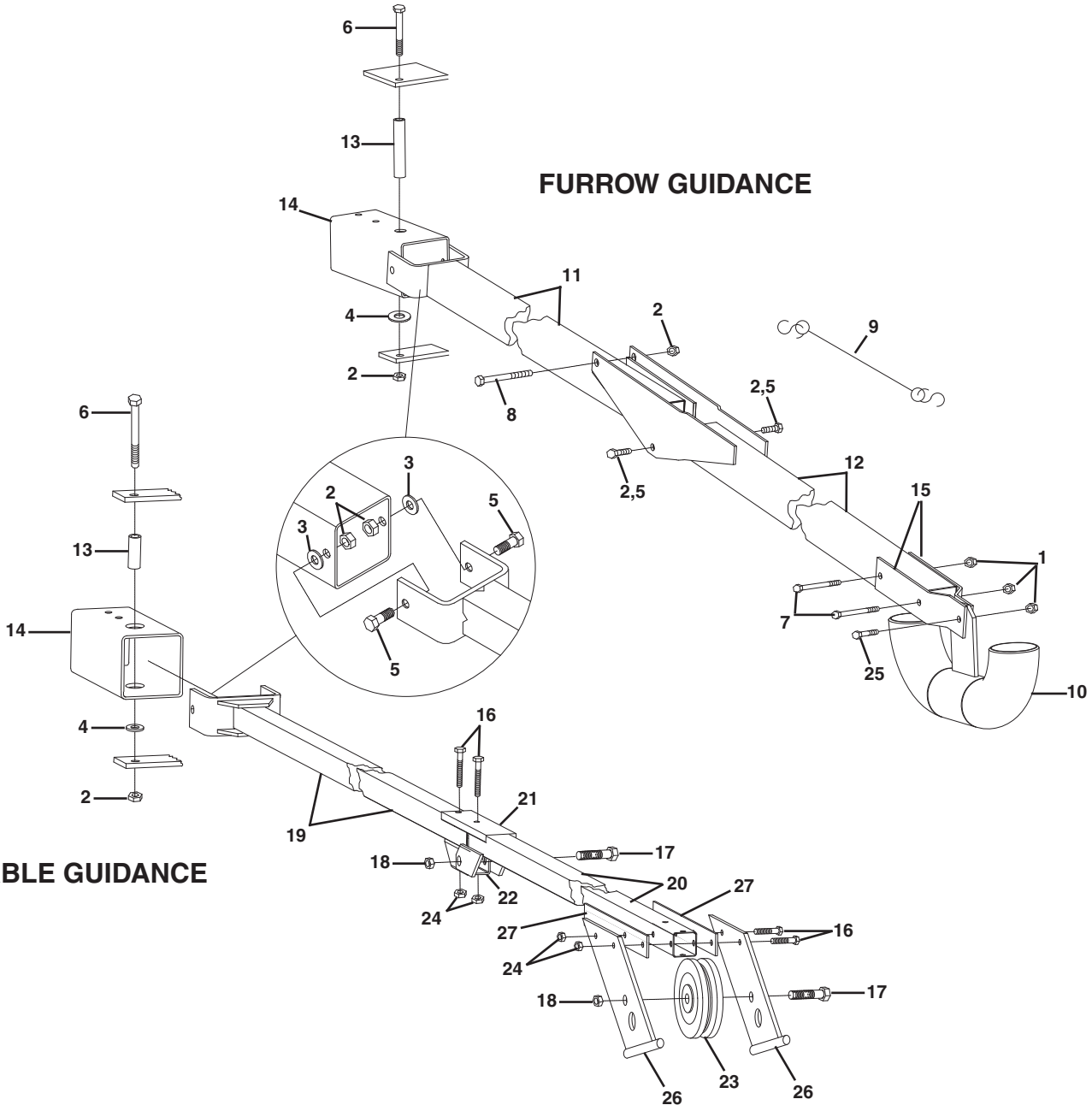
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ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	5/16" Lock Nut	0133007
3	3/8" Lock Nut	0133006
4	5/8" Lock Nut	0133010
5	5/16" Flat Washer	0142017
6	1/2" Flat Washer	0142026
7	1/2" x 2" Cap Screw	0161114
8	1/2" x 1-1/2" Cap Screw	0161026
9	5/16" x 1-1/2" Cap Screw	0161049
10	3/8" x 1-1/4" Cap Screw	0161153
11	5/8" x 1-3/4" Cap Screw	0161088
12	3/4" x 2-1/2" Cap Screw	0161159
13	5/16" Lock Washer	0141008
14	5/16" Hex Nut	0131037
15	5/16" Hex Nut	0131068
16	3/4" Lock Nut	0133011
17	5/16" Ball Joint Rod End	0992984

ITEM	DESCRIPTION	PART #
18	6-5/8" Clamp - 4" Wide	1700622
19	Guidance Tube Furrow Guide	9332028
20	Guidance Tube Sup. Angle - PRIOR TO Jan 2010	9332029
	Guidance Tube Sup. Angle - EFF. Jan 2010	9332231
21	Furrow Guidance Switch Box	1814132
22	Guidance Link	9332163
23	Guidance Arm	9332164
24	Universal Linear Switch Box Mount	9332166
25	Universal Linear Stop Plate	9361293
26	Adjustment Rod	1731735
27	Roller Bushing	1800207
28	Guide Support, Right (Shown)	9330215
	Guide Support, Left	9330214
29	5/16" Hex Nut	0131019
30	Chain, 11 Links	0323065
31	3/8" Flat Washer	0142031
32	Offset Box Mount	9361295

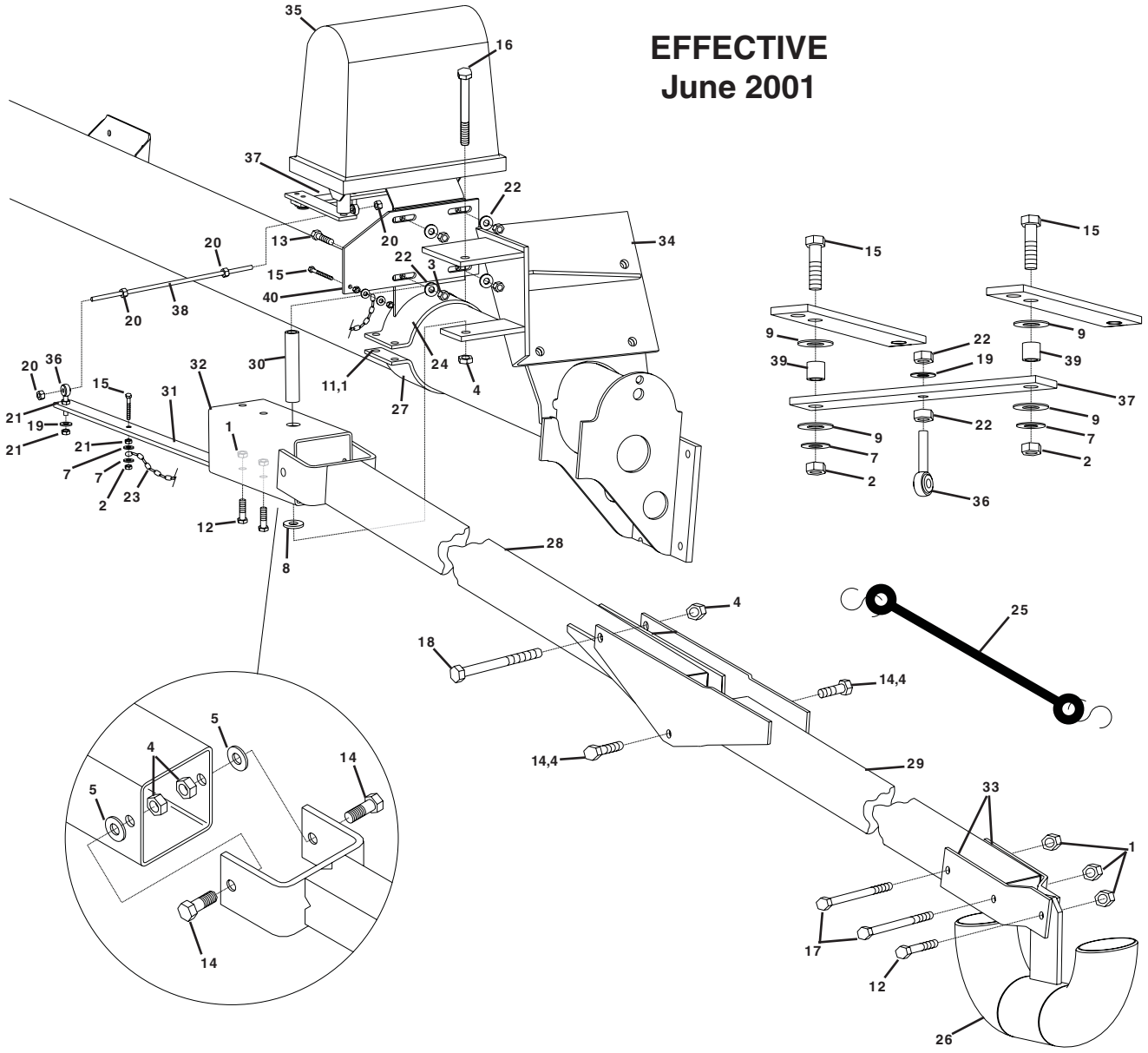
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ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	5/8" Lock Nut	0133010
3	5/8" Flat Washer	0142011
4	1" Flat Washer	0142020
5	5/8" x 1-3/4" Cap Screw	0161088
6	5/8" x 7" Cap Screw	0161104
7	1/2" x 4-1/2" Cap Screw	0161110
8	5/8" x 5-1/2" Cap Screw	0161105
9	Rubber Tie Down	0992327
10	Universal Linear Skid Assm.	9332171
11	Rear Guidance Tube	1732350
12	Front Guidance Tube	1732357
13	Pivot Tube	1732361
14	Swivel Tube	1732369

ITEM	DESCRIPTION	PART #
15	Universal Linear Skid Mount Bar	9332167
16	3/8" x 3-1/2" Cap Screw	0161150
17	3/4" x 3-1/2" Cap Screw	0161062
18	3/4" Lock Nut	0133011
19	Inner Guidance Arm	9330198
20	Outer Guidance Arm	9330197
21	Hinge Stop	9330192
22	Hinge Tube	9330194
23	V-Grooved Wheel	0997315
24	3/8" Lock Nut	0133006
25	1/2" x 1-1/2" Cap Screw	0161026
26	Sideplate Assm.	9330273
27	Spacer	9330274

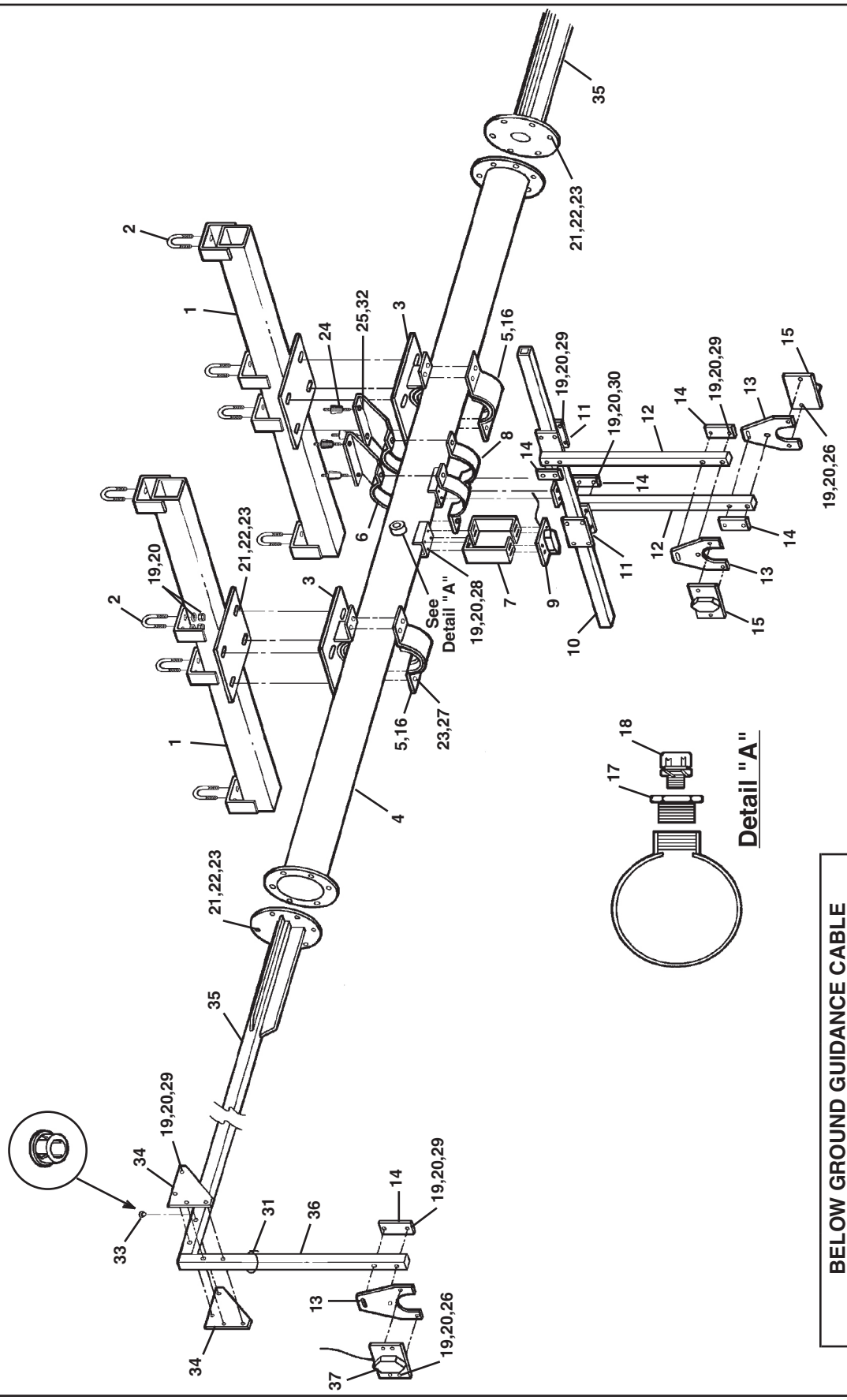
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ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	5/16" Lock Nut	0133007
3	3/8" Lock Nut	0133006
4	5/8" Lock Nut	0133010
5	5/8" Flat Washer	0142011
7	5/16" Flat Washer	0142017
8	1" Flat Washer	0142020
9	1/2" Flat Washer - Wide	0142026
11	1/2" x 2" 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

ITEM	DESCRIPTION	PART #
23	Chain, 11 Links	0323065
24	Universal Linear Switch Box Mount	9332166
25	Rubber Tie Down (for DU Mounted ONLY)	0992327
26	Skid Assembly	9332171
27	Clamp, 4" Wide Galvanized 6-5/8" Dia.	1700622
28	Rear Guidance Tube (DU Mounted ONLY)	1732350
29	Front Guidance Tube (DU Mounted ONLY)	1732357
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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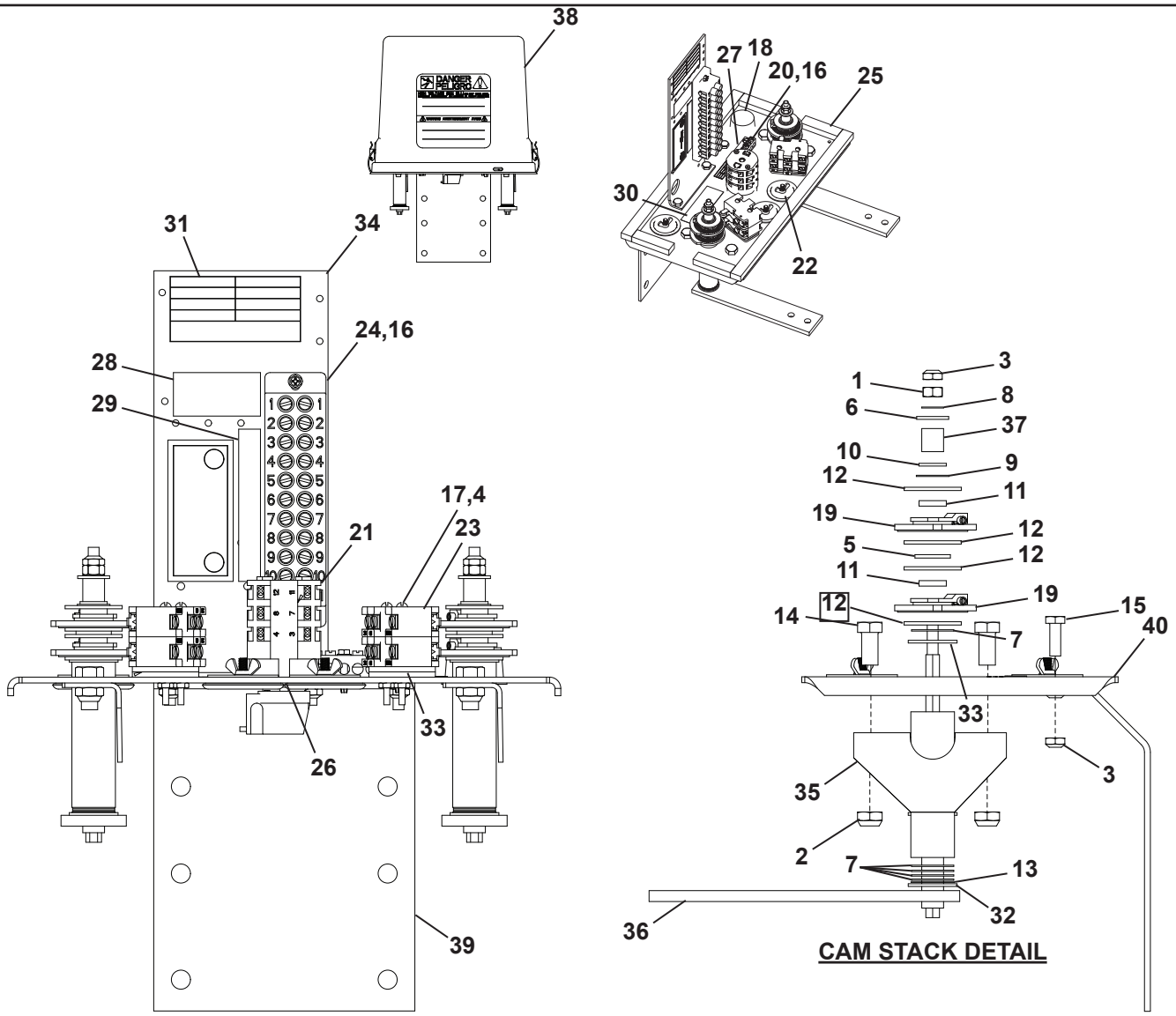
BELOW GROUND GUIDANCE CABLE		
Length	Shielded	Non-Shielded
9,200'	0314964	0314730
11,000'	0314966	0314742
13,000'	0314968	0314786

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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	03M4707
	1200 Hz Antenna	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/30' Lead	03E3836
	1000 Hz Antenna w/30' Lead	03E3831
	1200 Hz Antenna w/30' Lead	03E3832
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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Functional Area	Assembly / Part	Rev# 12-17
Guidance	Furrow Guidance Switch Box	

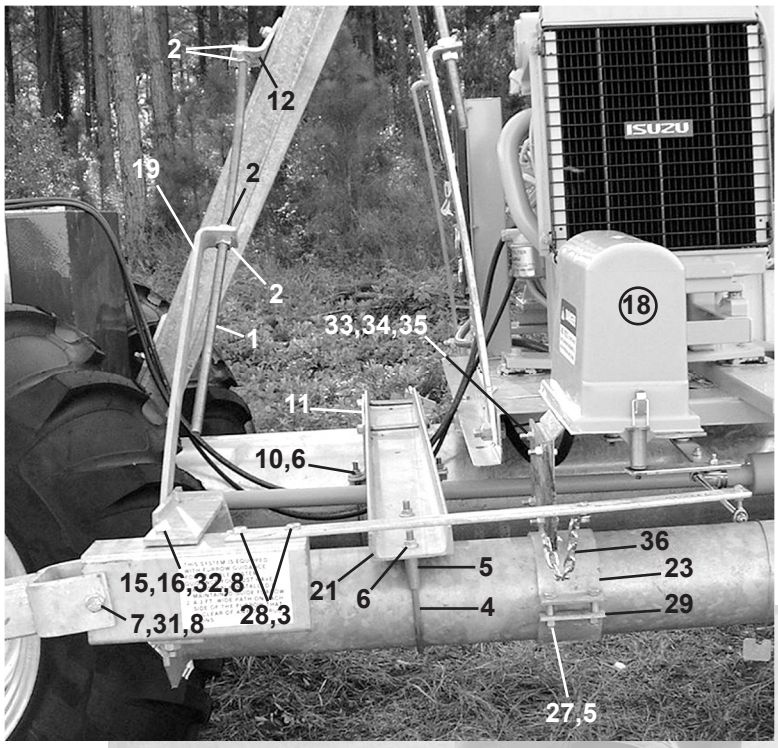


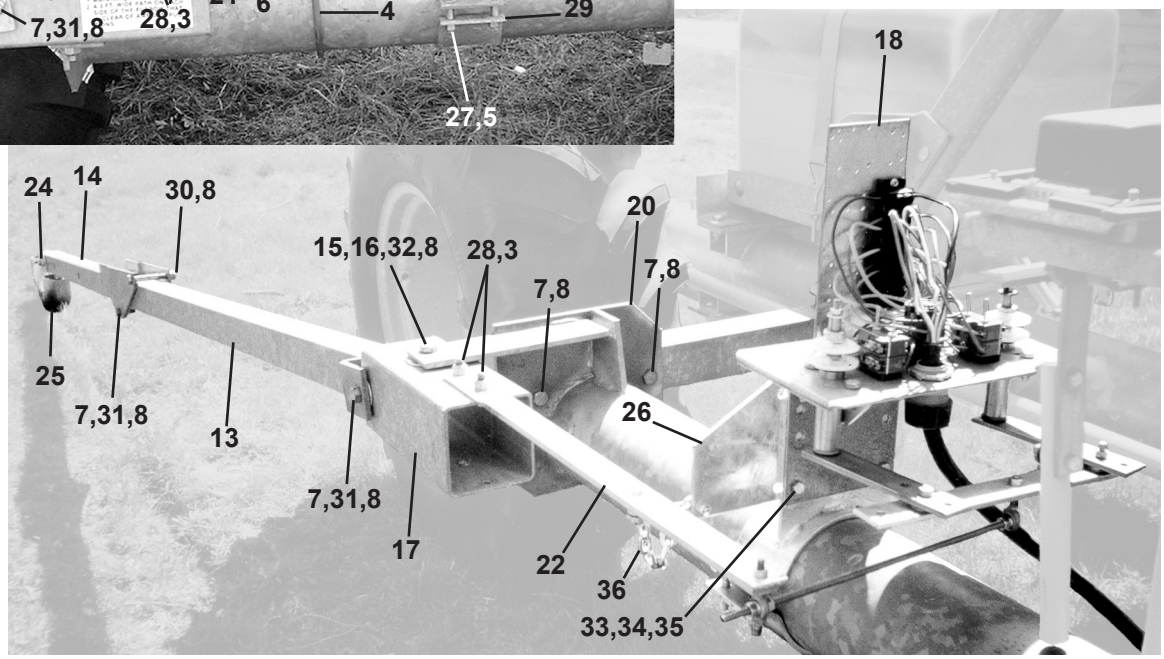
CAM STACK DETAIL

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

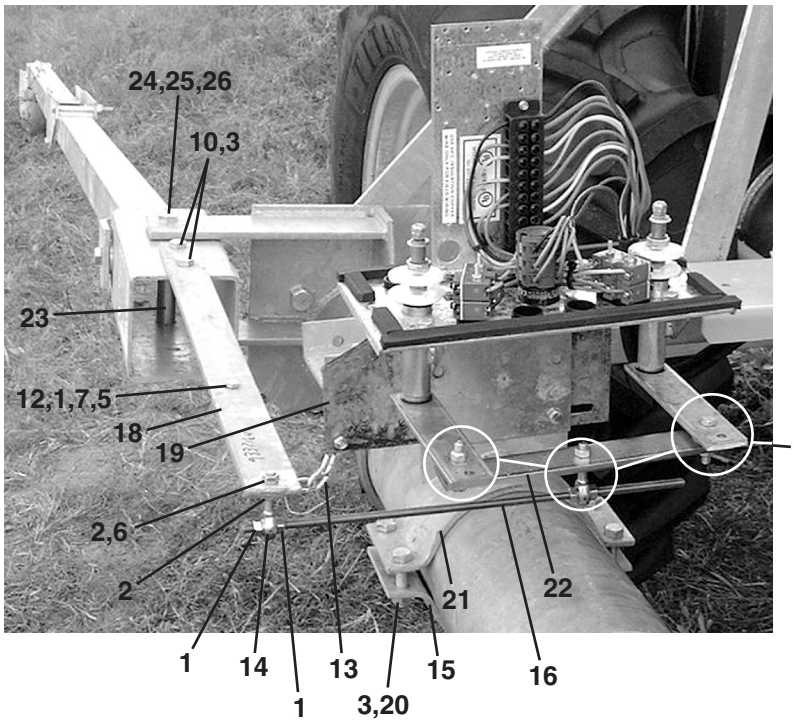
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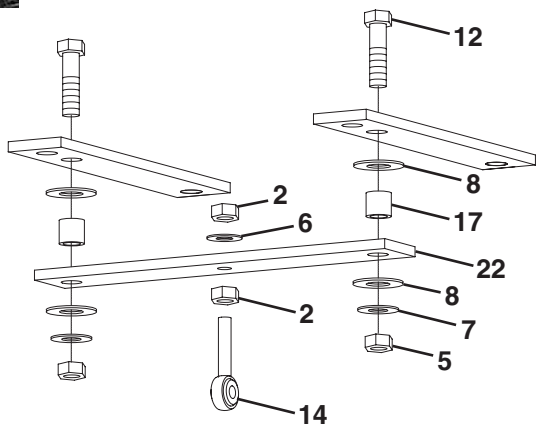




ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	3/4"x 3ft. Rod	0036024	19	Bottom Engine Support	9332012
2	3/4" Hex Nut	0131008	20	Guidance Tube, Furrow Guidance	9332028
3	1/2" Lock Nut	0133005	21	Engine/Generator Mount - Horizontal	9332081
4	6-5/8" U-Clamp	1781277	22	Guidance Arm	9332164
5	6-5/8" Saddle Assm.	1781282	23	Universal Linear Switch Box Mount	9332166
6	1/2" Hex Nut	0131015	24	Universal Linear Skid Mount Bar	9332167
7	5/8" x 1-3/4" Cap Screw	0161088	25	Universal Linear Skid	9332171
8	5/8" Lock Nut	0133010	26	Universal Linear Stop Plate	9361293
9	1/2" x 1-1/4" Cap Screw	0161027	27	1/2" x 2-1/2" Cap Screw	0161023
10	12" U-Bolt	1732254	28	1/2 x 1-1/2" Cap Screw	0161026
11	Mount	1732282	29	6-5/8" Clamp - 4" Wide	1700622
12	Top Mount, Enginge Support	1732327	30	5/8" x 5-1/2" Cap Screw	0161105
13	Rear Guidance Tube Assm.	1732350	31	5/8" Flat Washer	0142011
14	Front Guidance Tube Assm.	1732357	32	1" Flat Washer	0142020
15	5/8" x 7" Cap Screw	0161104	33	3/8" x 1" Cap Screw	0161045
16	Pivot Tube	1732361	34	3/8" Flat Washer	0142031
17	Swivel Tube	1732369	35	3/8" Lock Nut	0133006
18	Furrow Guidance Switch Box	1814132	36	Chain - 11 Links	0323065

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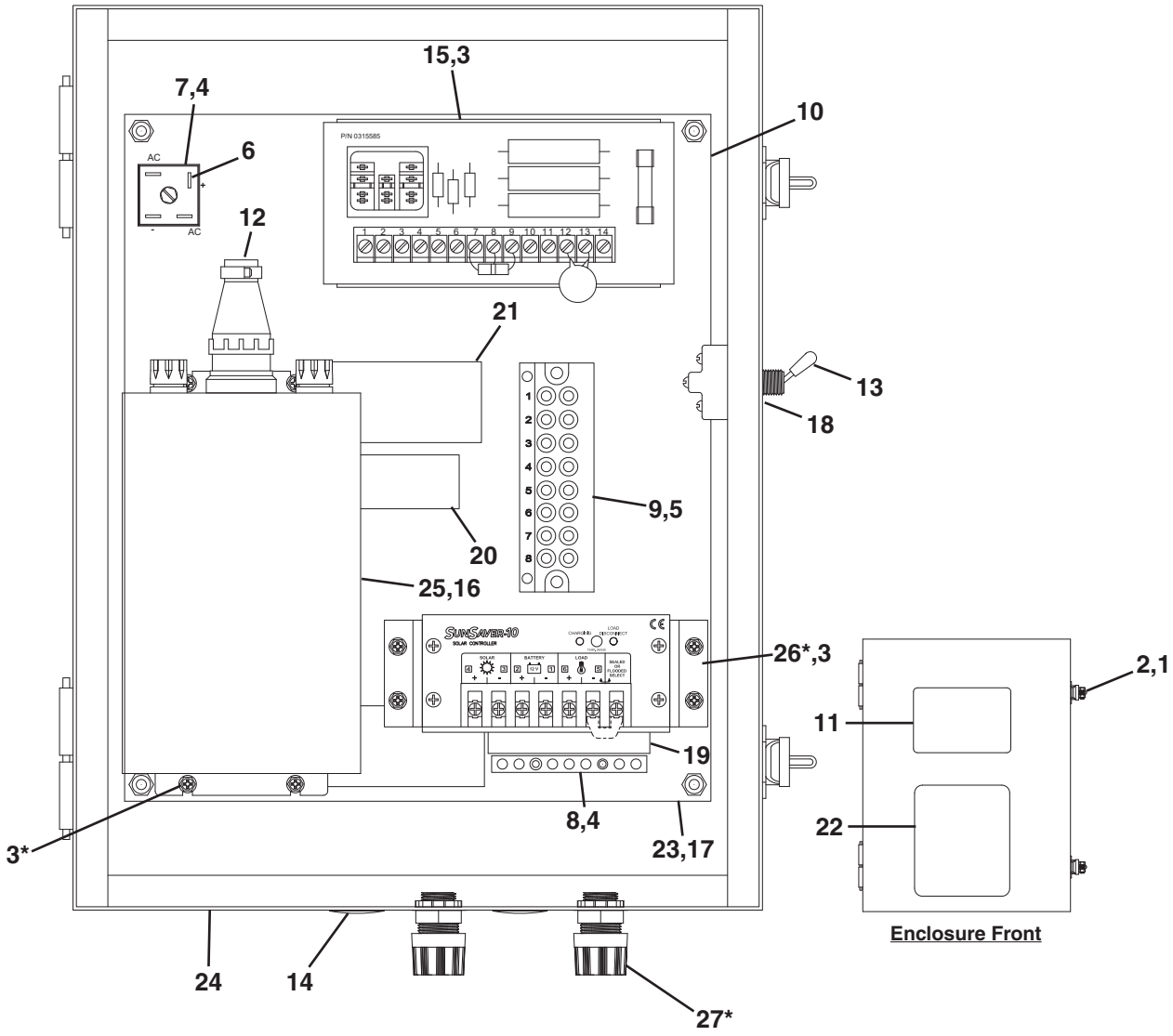




Detail "A"

ITEM	DESCRIPTION	PART #
1	5/16"-18UNC Hex Nut	0131037
2	5/16"-24UNF Hex Nut	0131068
3	1/2" Lock Nut	0133005
4	3/8" Lock Nut	0133006
5	5/16" Lock Nut	0133007
6	5/16" Lock Washer	0141008
7	5/16" Flat Washer	0142017
8	1/2" Flat Washer	0142026
9	3/8" Flat Washer	0142031
10	1/2" x 1-1/2" Cap Screw	0161026
11	3/8" x 1" Cap Screw	0161045
12	5/16" x 1-1/2" Cap Screw	0161049
13	Chain - 11 Links	0323065
14	5/16" Ball Joint Rod End	0992984
15	6-5/8" Clamp - 4" Wide	1700622
16	Adjustment Rod	1731735
17	Roller Bushing	1800207
18	Guidance Arm	9332164
19	Universal Linear Stop Plate	9361293
20	1/2" x 2-1/2" Cap Screw	0161023
21	Universal Linear Switch Box Mount	9332166
22	Guidance Link	9332163
23	Pivot Tube	1732361
24	5/8" Lock Nut	0133010
25	5/8" x 7" Cap Screw	0161104
26	1" Flat Washer	0142020

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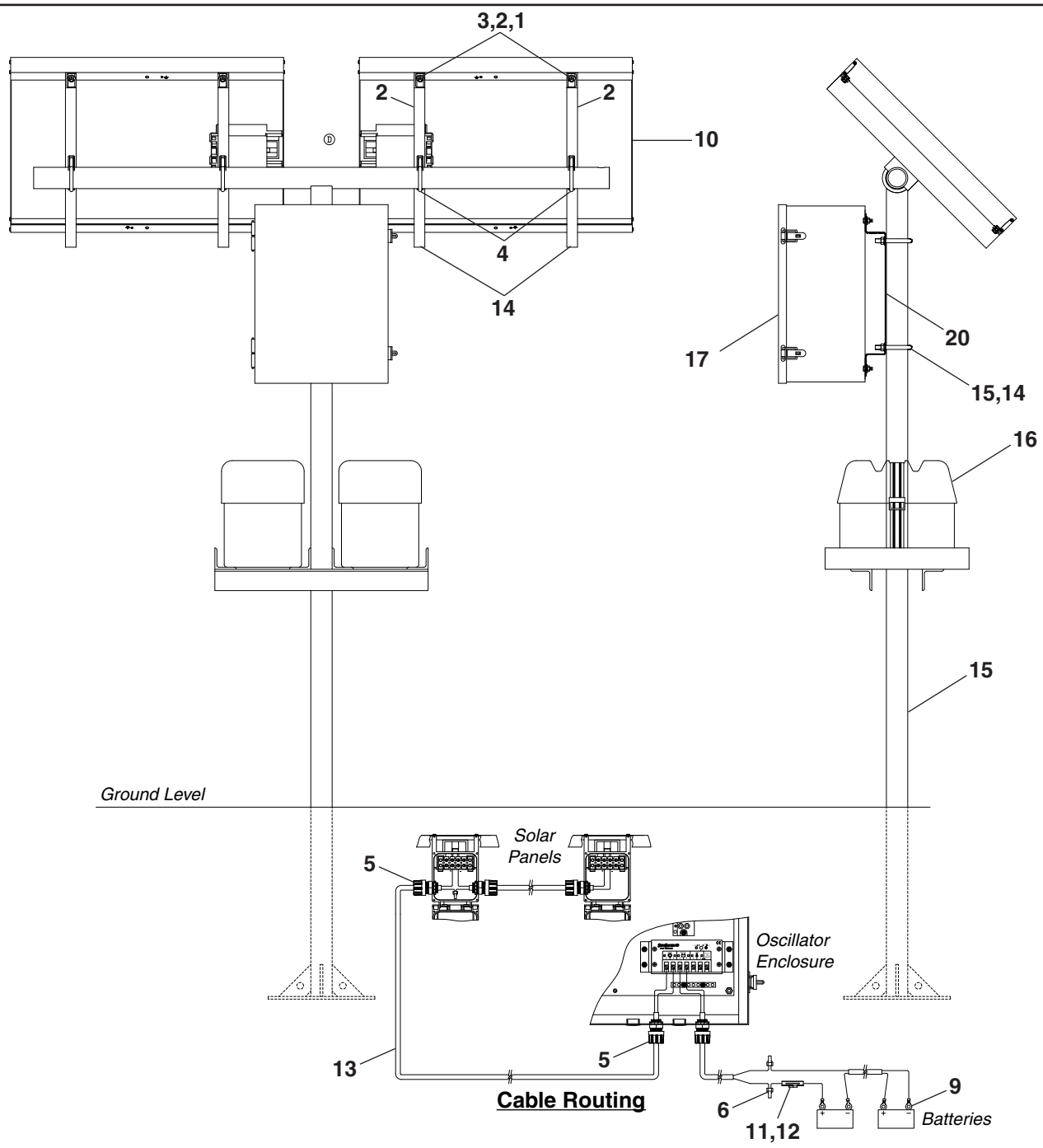


ITEM	DESCRIPTION	PART #
1	1/4" Hex Nut	0131020
2	1/4" x 1/2" Cap Screw	0161059
3	#8 x 1/2" Self Tapping Screw	0161355
4	#8 x 7/8" Self Tapping Screw	0161356
5	#8 x 1-1/4" Self Tapping Screw	0161357
6	Terminal - Female QC .250 Tab 14-16 AWG	0314566
7	Rectifier Bridge	0314894
8	Ground Lug	0315120
9	Terminal 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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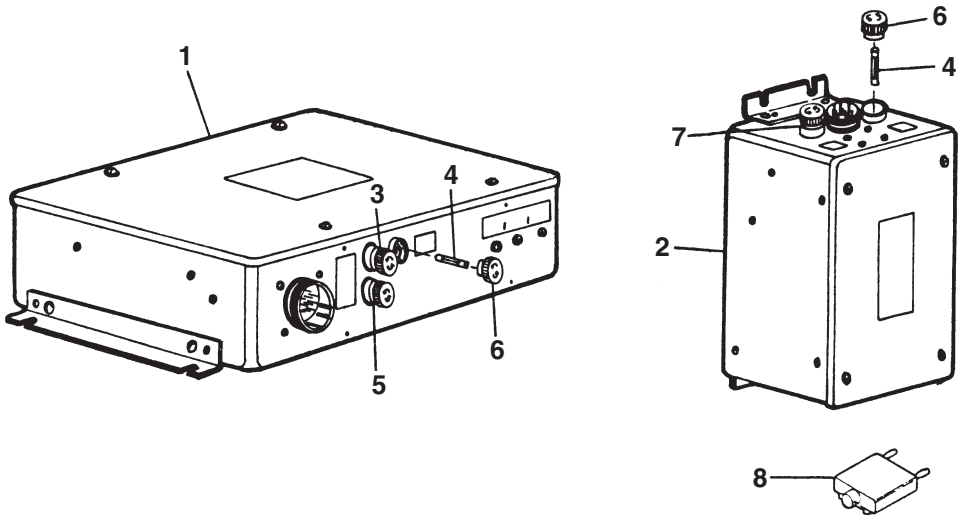
Solar Powered Oscillator Pedestal



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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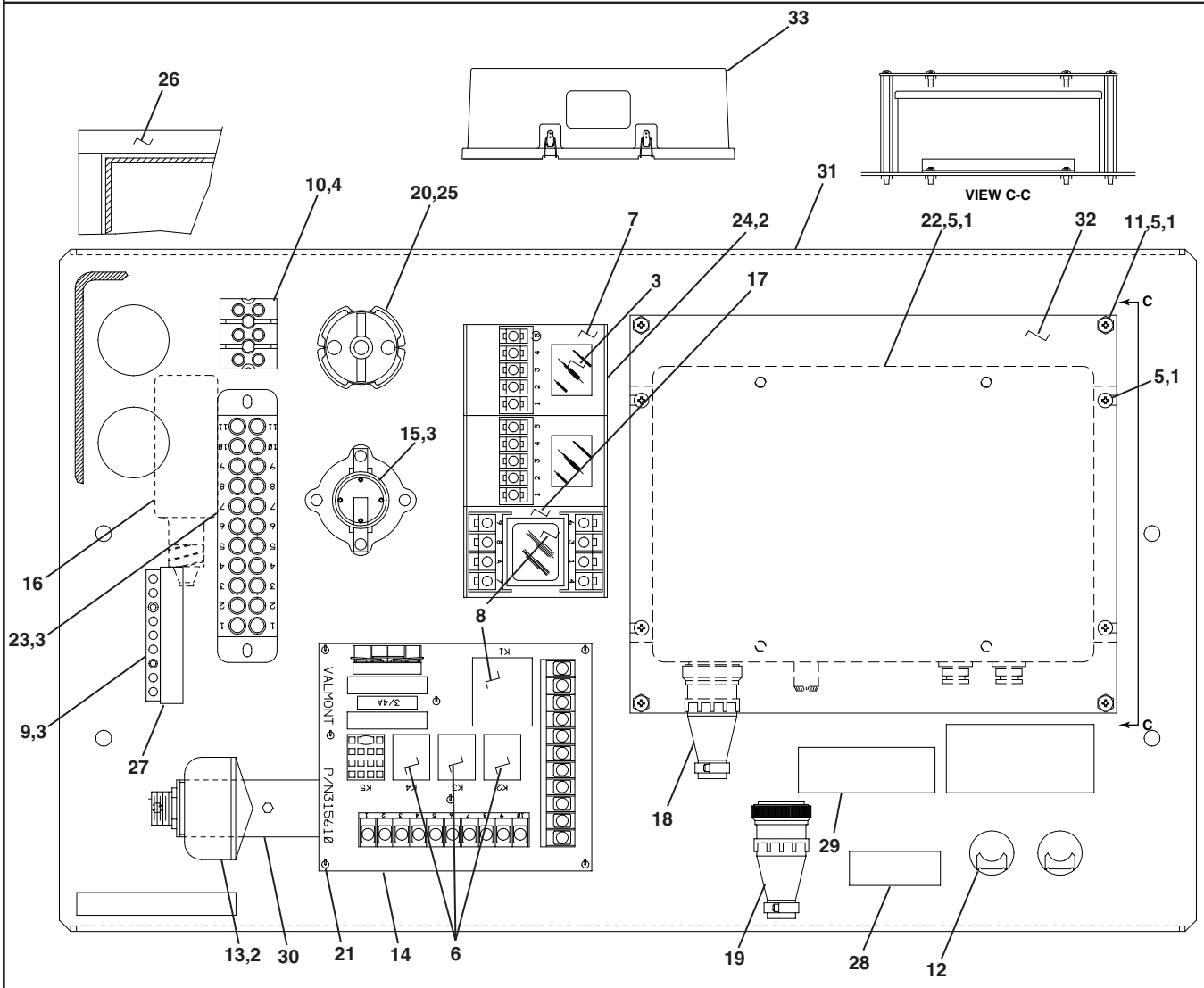
ITEM	DESCRIPTION	PART #
1	Valmont Guidance Receiver (New)	03E1501
	*Rebuilt Guidance Control	03E1546
2	833 Hz Oscillator (New)	03E1845
	*Rebuilt 833 Hz Oscillator	03E1847
	1000 Hz Oscillator (New)	03E1502
	*Rebuilt 1000 Hz Oscillator	03E1543
	1200 Hz Oscillator (New)	03E1503
	*Rebuilt 1200 Hz Oscillator	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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Linear Span Tower Box



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.

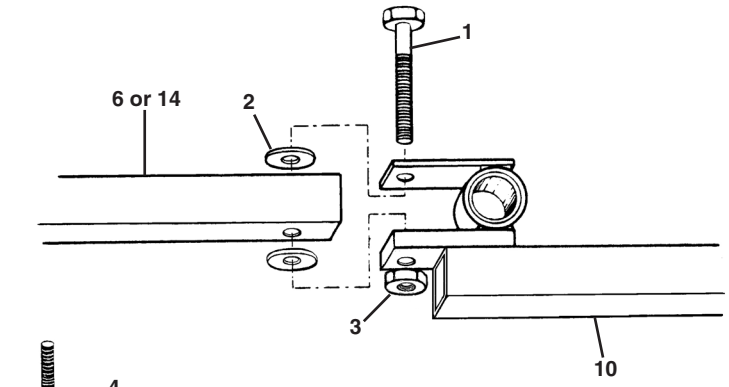
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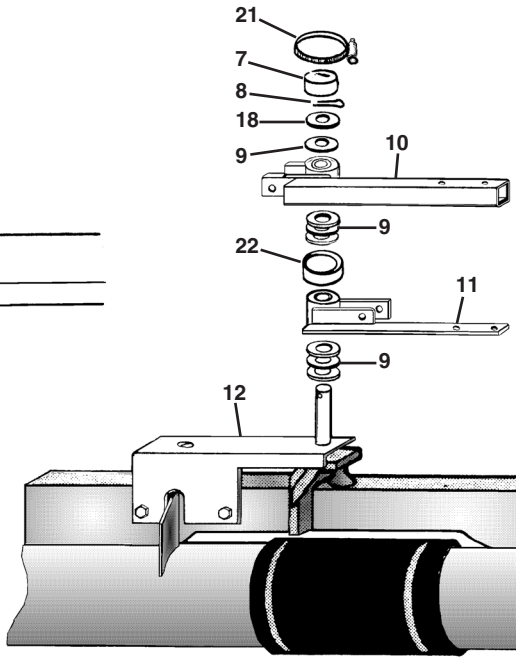
ALIGNMENT

Universal Linear - Effective 1-18

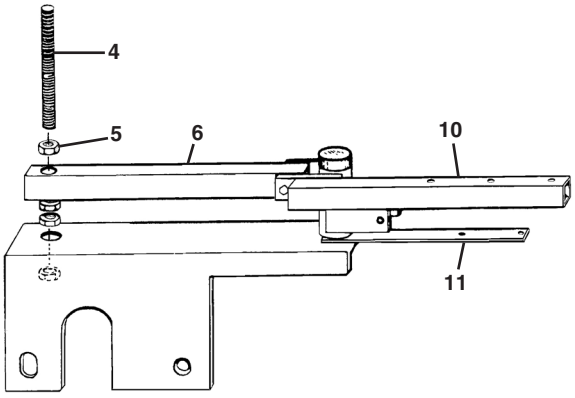
Description	Rev. #	Pg. #
Floating Alignment Controls	01-17	5-3
Control Tower Box Hardware	08-99	5-4
Modified Alignment	04-17	5-5
Single Span Safety Hardware	03-03	5-6
Single Span Safety Hardware (cont'd)	03-03	5-7

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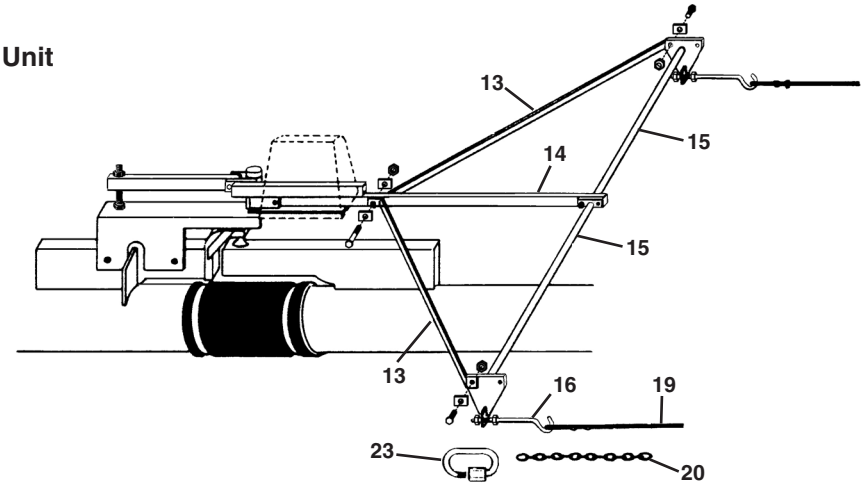




Inner Drive Units



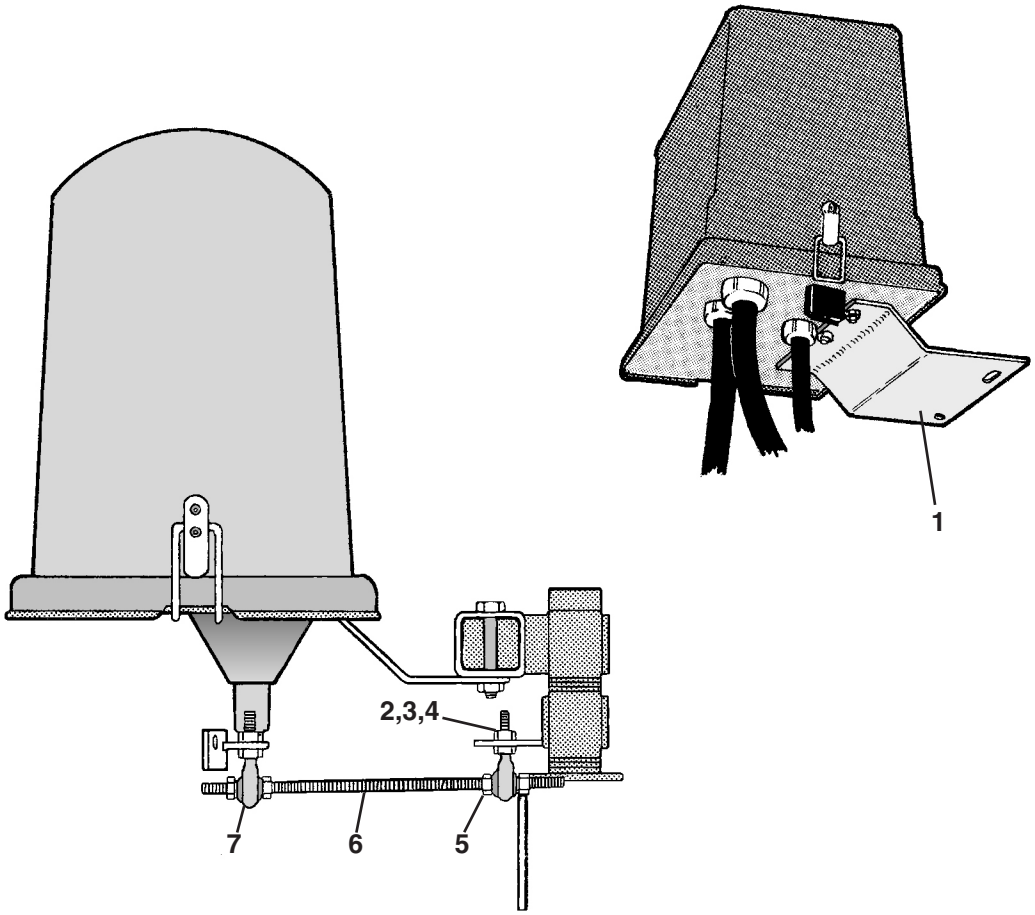
Next to Last Drive Unit



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.	1731300
13	Brace	1730485
14	Alignment Tube	1730571
15	Cable Attachment Assy.	1730572
16	3/8" x 7" Hook Bolt	0161366

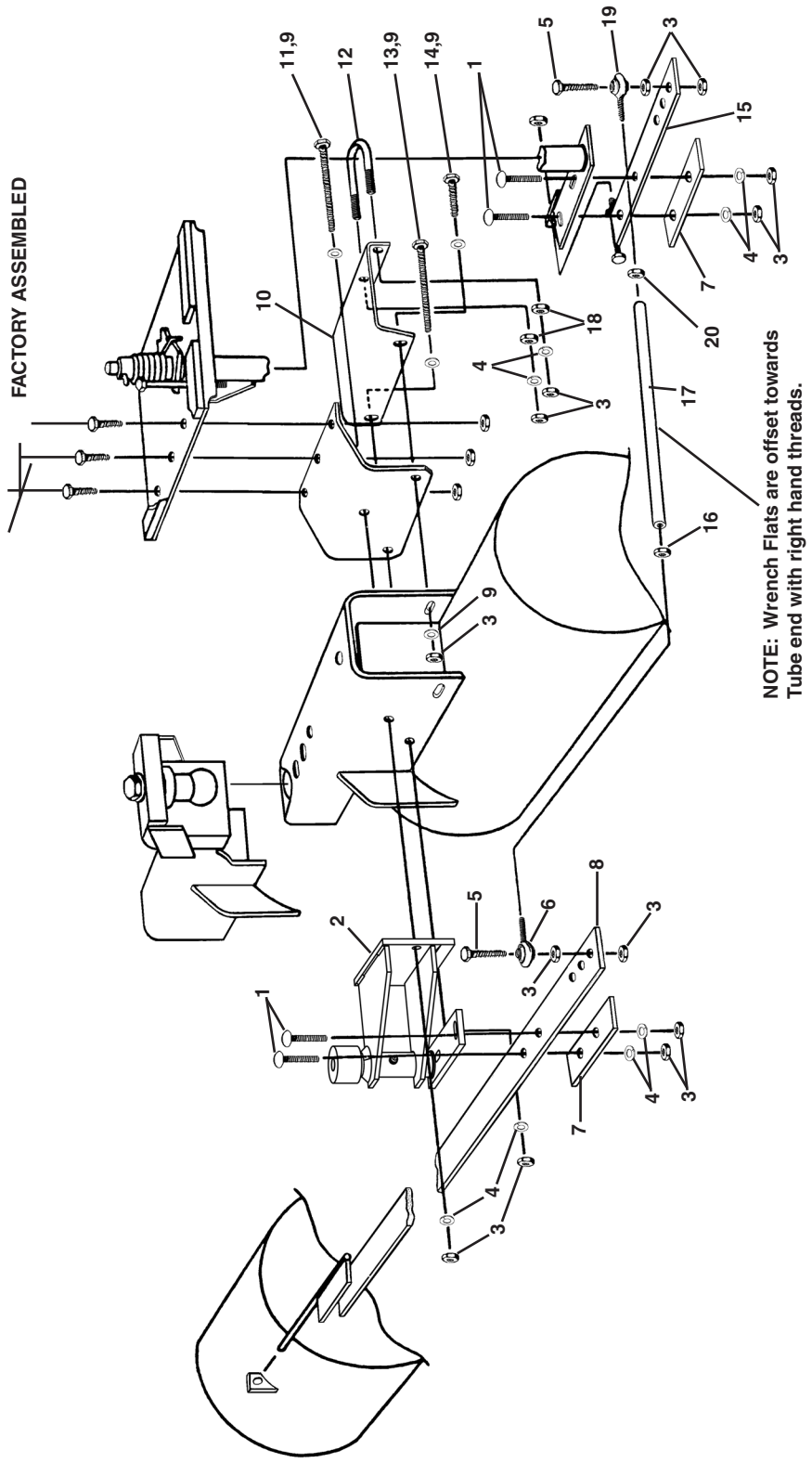
ITEM	DESCRIPTION	S.S.	GALV.
17	Pad	1730478	
18	Stainless Steel Washer	0141067	
19	Alignment Cables		
	115' [29.2m]	9364239	9330036
	135' [34.3m]	9364240	9330008
	140' [35.6m]	9364241	9330037
	142' [36.1m]	9364242	9330248
	157.5' [40.0m]	9364243	9330009
	160' [40.6m]	9364244	1731011
	161' [40.9m]	9364245	9330247
	180' [45.7m]	9364246	1781578
	185' [47.0m]	9364247	9330010
	187' [47.5m]	9364248	1781579
20	Single Transition Chain	1730581	
21	Hose Clamp 1-3/4"	0271064	
22	Bearing Sleeve	0993010	
23	Threaded Chain Connector	0323042	

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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

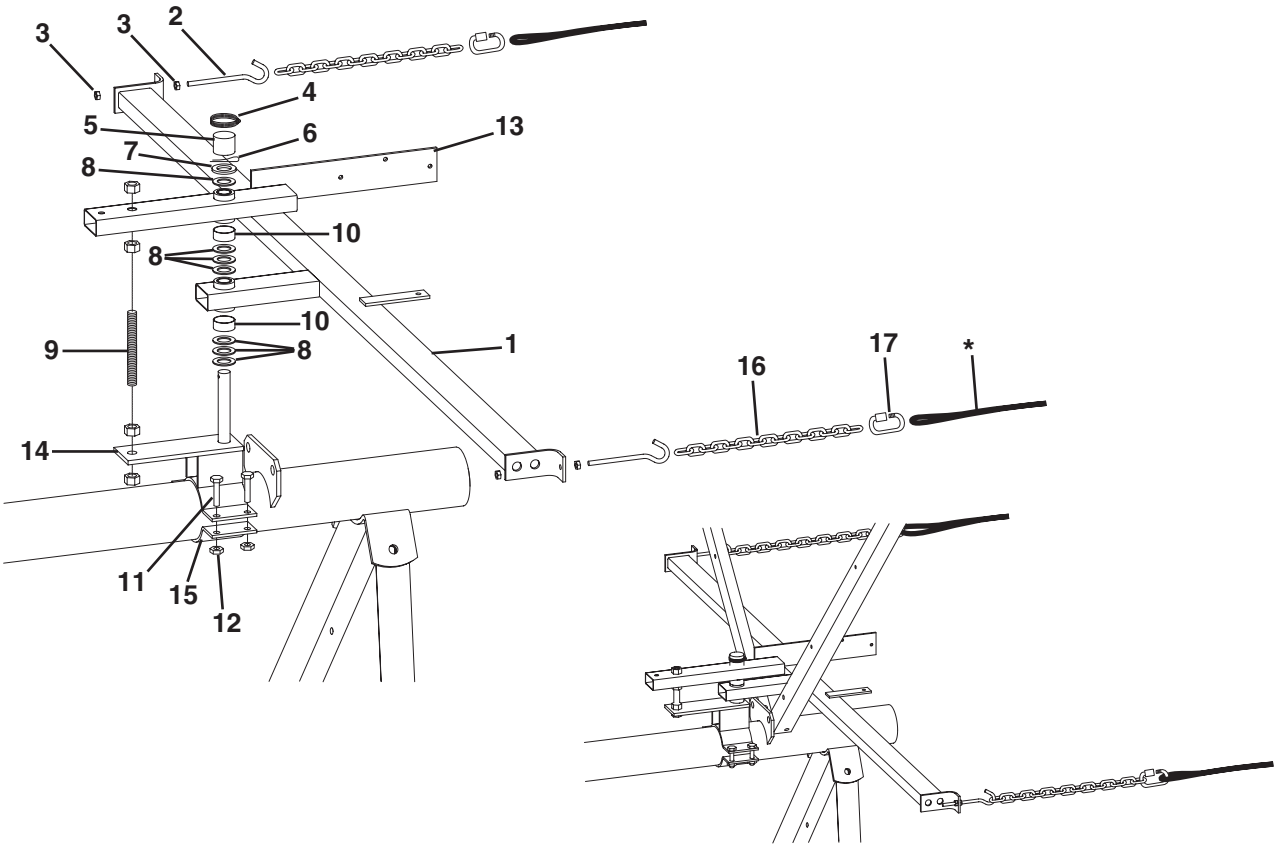
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ITEM	DESCRIPTION	PART #
1	5/16" x 1-1/4" Carriage Bolt	0175013
2	Housing Control Bar Pivot	1703462
3	5/16" Hex Nut	0131019
4	5/16" Lock Washer	0141008
5	5/16" x 2" Cap Screw	0161079
6	5/16" Ball Joint Rod End, R.H.	0992984
	5/16" Ball Joint Rod End, 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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TOWER BOXES

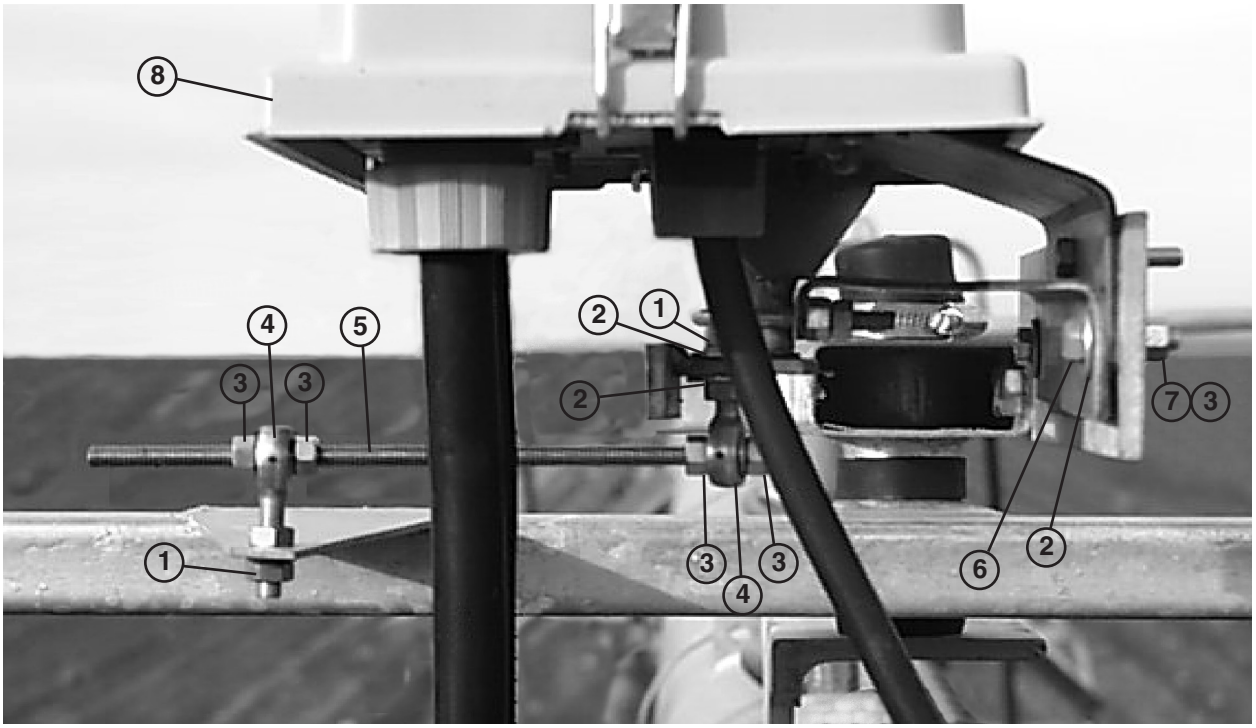
Last Tower Pulse Box (Outer End) 1814216
Span Safety Box (Inner End) 1812805

MODEL 8120 SPANS	
SPAN LENGTH	CABLE PART #
142'	9361052
161'	9361055
180'	9361056
199'	9361059

ITEM	DESCRIPTION	PART #
1	T-Bar - Short w/Bushing	9361043
2	3/8" x 7" Hook Bolt	0161366
3	3/8" - 24 Nut	0131018
4	1-3/4" Hose Clamp	0271064
5	Alignment Bearing Cap	0261033
6	3/16" x 2" Cotter Pin	0151015
7	1" Flat Washer - Stainless Steel	0141067
8	Alignment Washer	1730570
9	Last Tower Stabilizer Stud w/Nuts	9361273
10	Alignment Bearing Sleeve	0993010
11	1/2" x 2-1/2" Cap Screw	0161023
12	1/2" Lock Nut	0133005
13	Last Tower Align. Bar w/Bushing	9361041
14	Alignment Mounting Bracket	9361506
15	Half Clamp (5" Pipe)	9360921
16	Single Transition Chain	1730581
17	Threaded Chain Connector	0323042

*** NOTE: See Cable Charts.**

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ITEM	DESCRIPTION	PART#
1	5/16" - 24 Nut, Stainless Steel	0131068
2	5/16" Flat Washer, Plated	0142017
3	5/16" - 18 Nut, Stainless Steel	0131037
4	5/16" Ball Joint End	0992984
5	Alignment Adjustment Rod, Stainless Steel	1731232
6	5/16" x 1-1/4" Cap Screw	0161051
7	5/16" Lock Washer	0141008
8	Span Safety Box (Inner End)	1812805
	Last Tower Pulse Box (Outer End)	1814216

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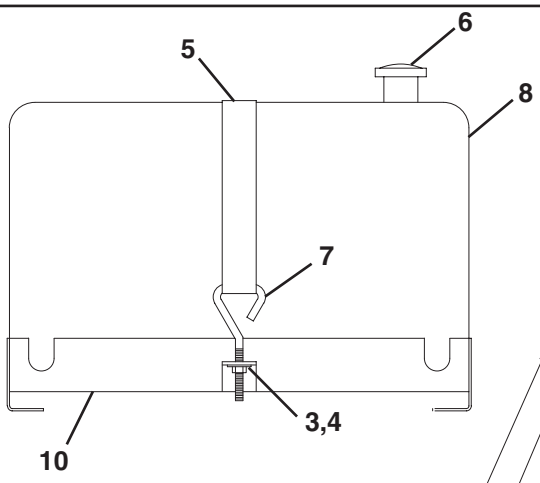
POWER SUPPLY

Universal Linear - Effective 6/06

Description	Rev. #	Pg. #
Engine/Generator Detail	05-15	6-3
Fuel Tank and Fittings	07-13	6-4
200 Gallon Fuel Tank and Accessories	07-13	6-5
Control Panel Mounts	07-13	6-6
Pump Panel Mounts	07-13	6-7
Disconnect Panel Mounts	07-13	6-8
Disconnect Panel Mounts - Ditch Straddle	09-13	6-9
Electrical Cables and Routings (Hose Drag)	07-13	6-10
Electrical Cables and Routings (Ditch Feed)	07-13	6-11
Cornell Pump Parts	06-07	6-12
Cornell Pump Parts	04-17	6-13
Pioneer Pump Parts	04-17	6-14
Pioneer Pump Parts	04-17	6-15
Generators	01-17	6-16
Generator Shields	06-06	6-17
Generator Sheaves	04-07	6-18
Battery Box	07-17	6-19
Battery Box Mount	07-17	6-20
Exhaust Primer	06-06	6-21
Slide Primer	03-07	6-22
Compressed Air Vacuum Pump Primer	11-17	6-23
Engine/Generator Sets	05-17	6-24
Electric Cord Pull Safety Switch	06-06	6-25
Junction Box Pedestal	06-06	6-26
Power Pedestal	04-11	6-27

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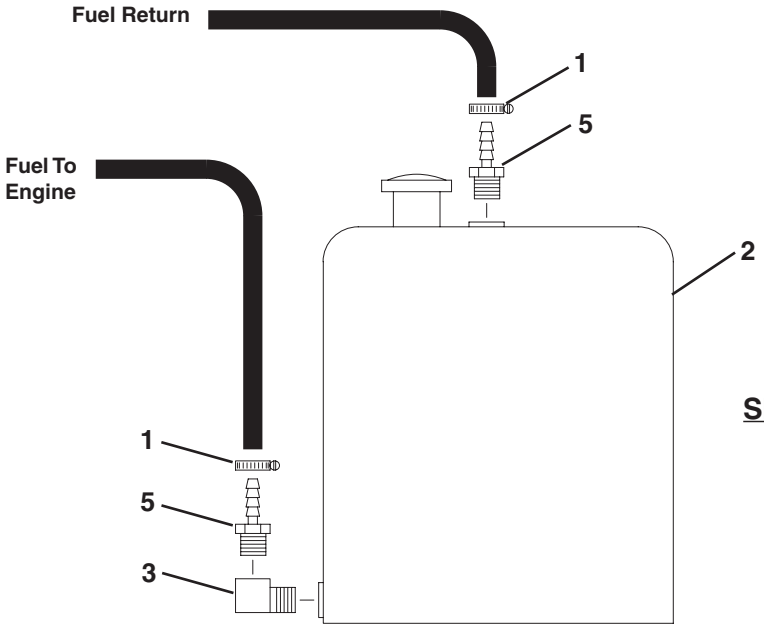


Detail "A"

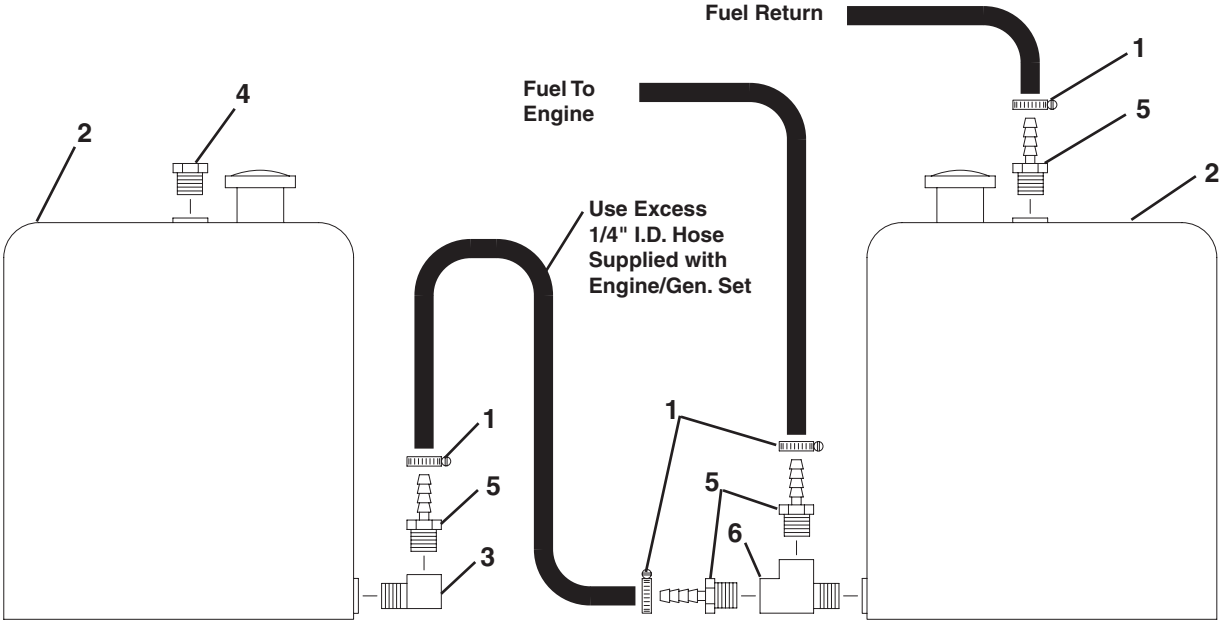
NOTE: Position Fuel Tanks, Fertilizer Tanks and Eng./Gen. Sets to optimally distribute weight over all 4 wheels

ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/2" Cap Screw	0161026
3	3/8" Nylon Lock Nut	Supplied w/Tank
4	3/8" Flat Washer	Supplied w/Tank
5	Hold Down Strap	Supplied w/Tank
6	Cap - Fuel Tank	Supplied w/Tank
7	Strap Hook Bolt	Supplied w/Tank
8	30 Gallon Fuel Tank - Polyethylene	0994938
9	Platform Angle	9332026
10	Fuel Tank Support	9332030

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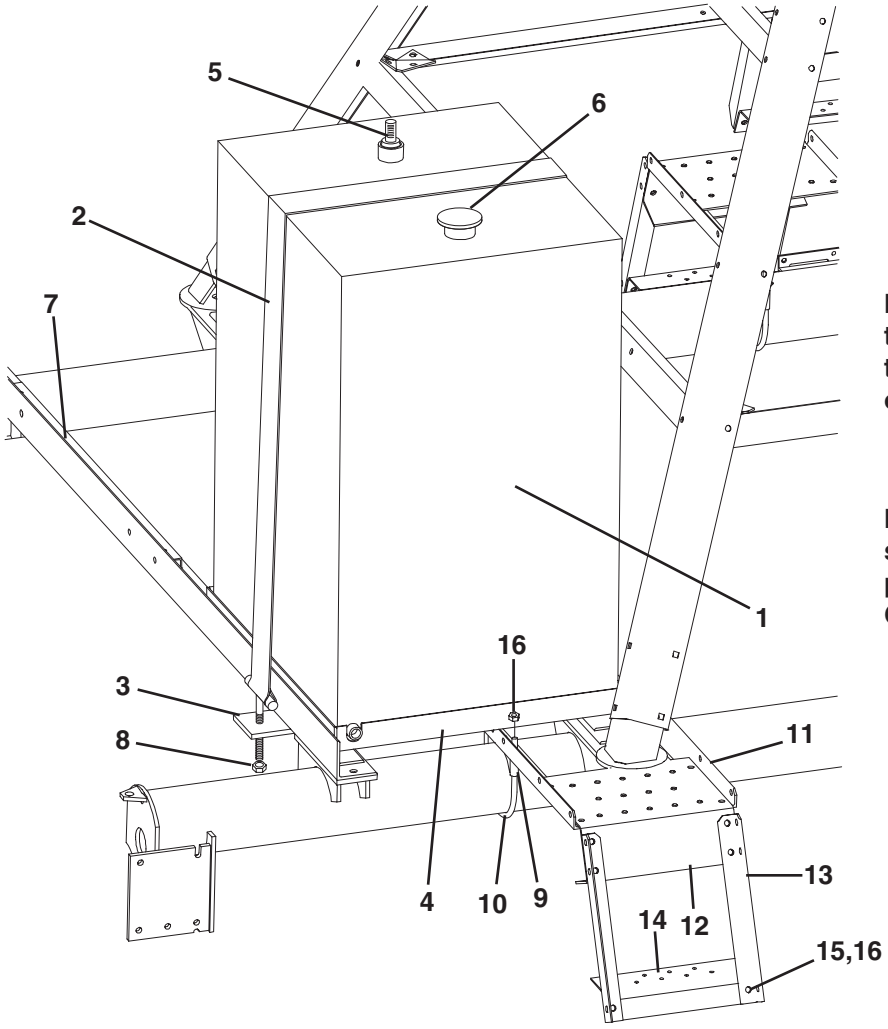
SINGLE FUEL TANK



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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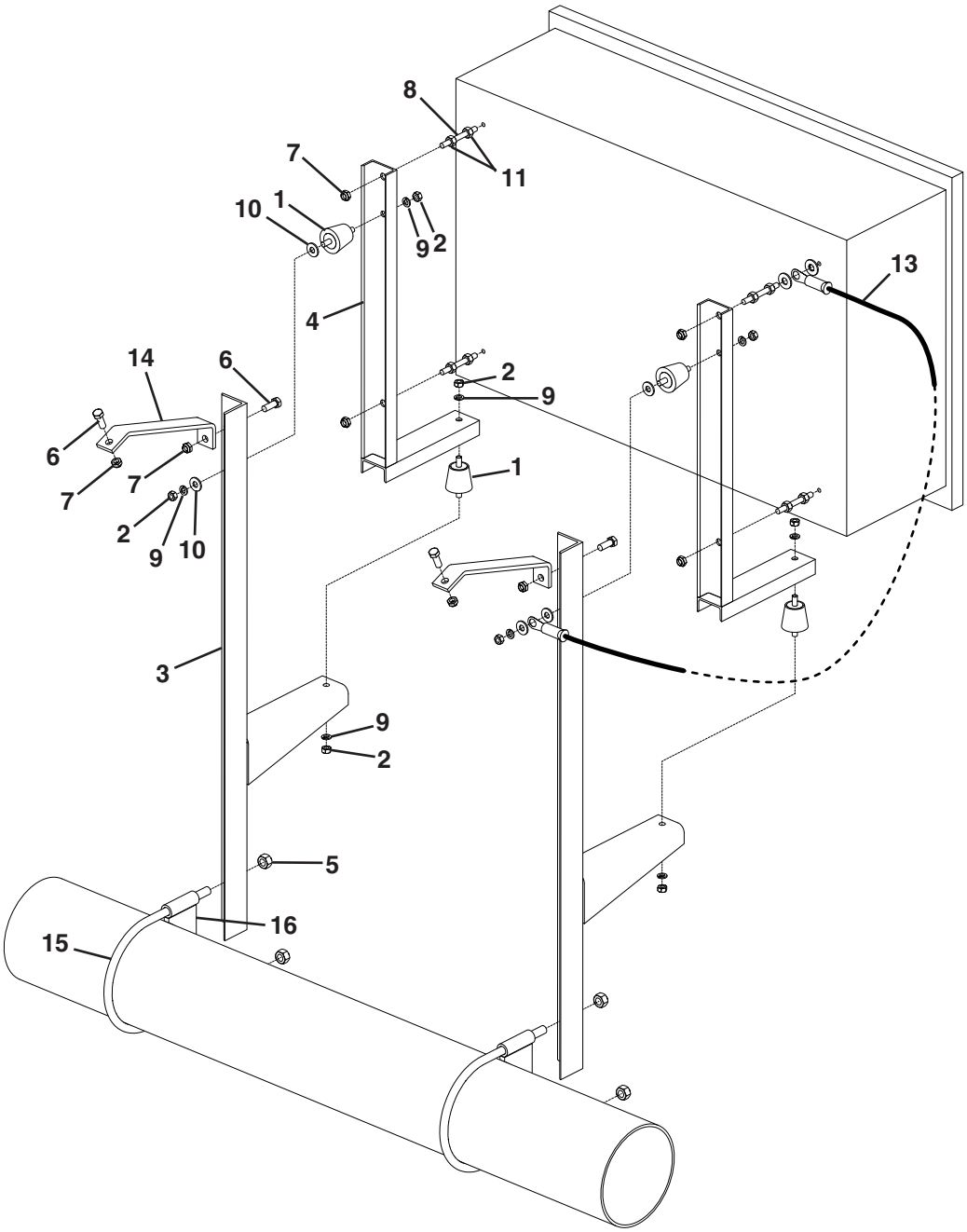


NOTE: Position Fuel Tanks, Fertilizer Tanks and Eng./Gen. Sets to optimally distribute weight over all 4 wheels

NOTE: 200 gal. Fuel Tank should be mounted on opposite end of Cart from Eng./ Gen., if possible.

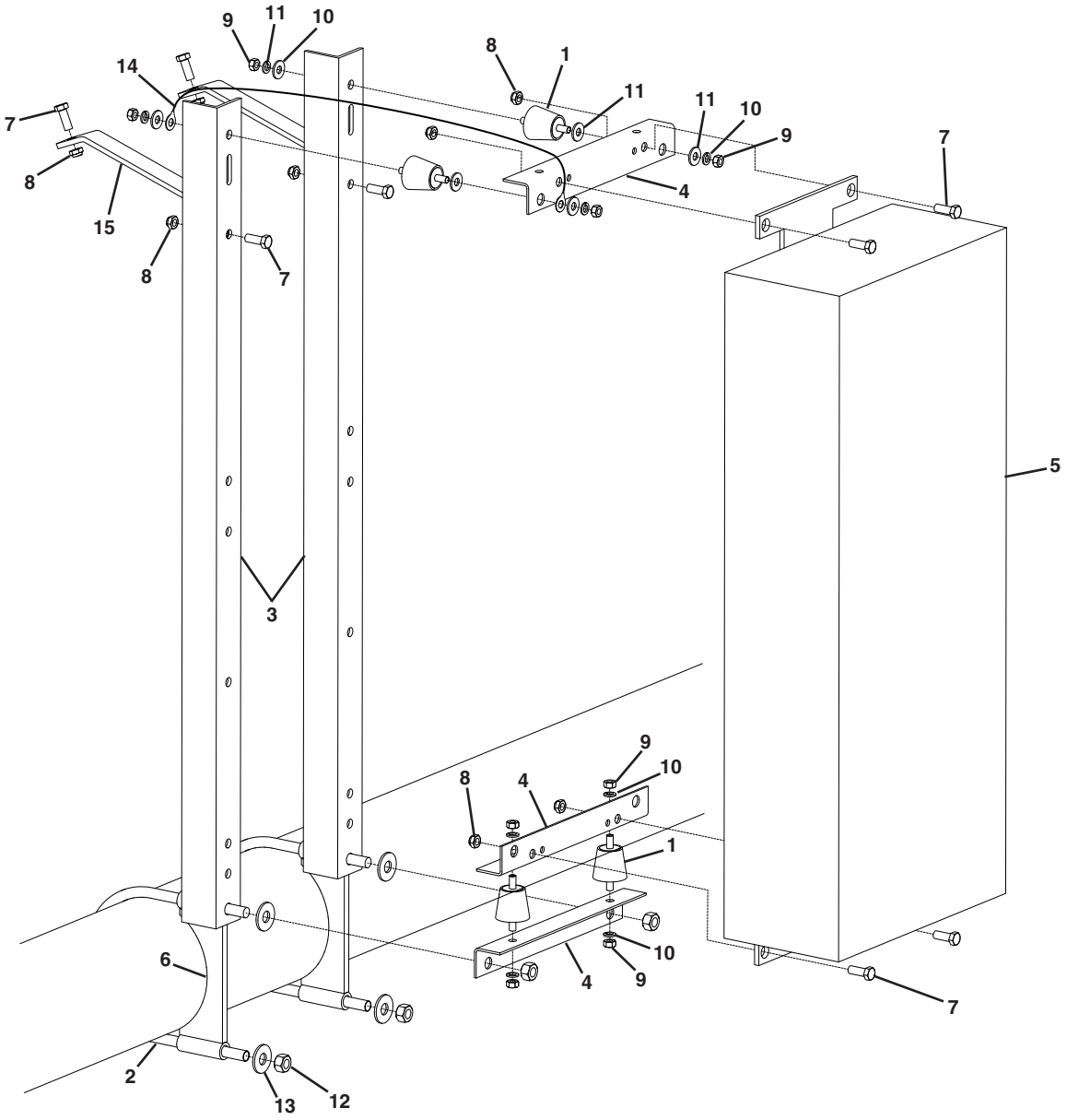
ITEM	DESCRIPTION	PART #
1	200 Gallon Fuel Tank	0995698
2	Tank Strap	1731072
3	Fuel Tank Strap	9330199
4	Fuel Tank Mount	9330190
5	Fuel Gauge	0992765
6	Filler Cap	0992219
7	Engine/Generator Channel	9330230
8	3/8" Lock Nut	0133006
9	Saddle	1781282
10	U-Bolt	1781277
11	Step Angle	9330218
12	Platform	9330205
13	Step Angle	9332027
14	Step	1781371
15	1/2" x 1-1/2" Cap Screw	0161026
16	1/2" Lock Nut	0133005

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ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Rubber Mount	0992239	9	5/16" Lock Washer	0141008
2	5/16" Hex Nut	0131019	10	5/16" Flat Washer	0142017
3	Control Box Mounting Assm.	9360794	11	3/8" Hex Nut	0131018
4	Pivot Box Mount Assembly	1781675	12	3/8" Flat Washer	0142031
5	1/2" Hex Nut	0131015	13	Grounding Jumper	1811101
6	3/8" x 1" Cap Screw	0161045	14	Mounting Bracket	9364324
7	3/8" Lock Nut	0133006	15	6-5/8" U-Clamp	1781277
8	3/8"-16 x 2" S. S. Threaded Rod	0994523	16	6-5/8" Saddle Assembly	1781282

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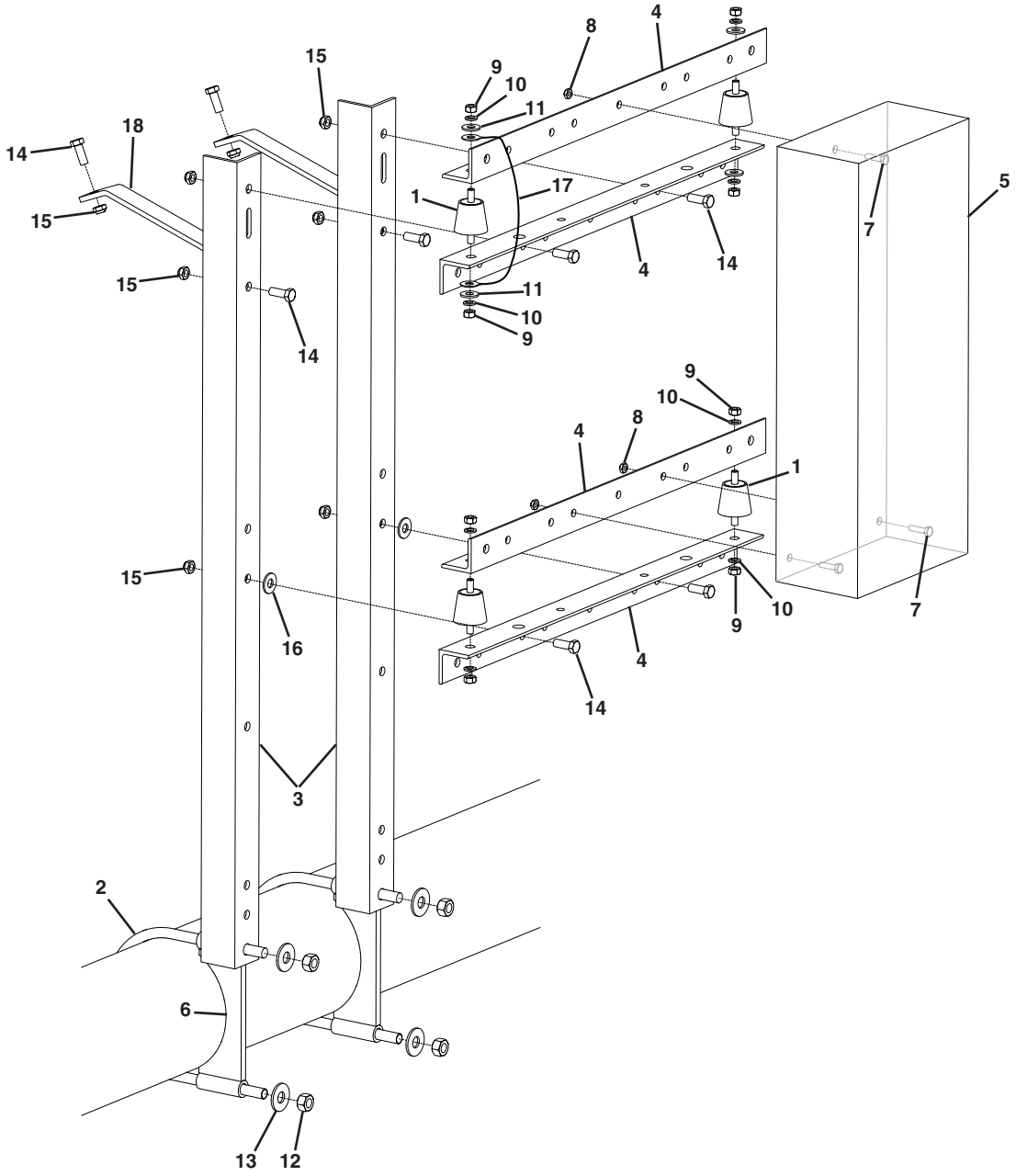


ITEM	DESCRIPTION	PART #
1	Rubber Mount	0992239
2	6-5/8" U-Clamp	1781277
3	Box Mounting Angle	9332124
4	Panel Mounting Angle	9332126
5	Pump Panel, 10 H.P., 480V (120V Control)	9310382
	Pump Panel, 25 H.P., 480V (120V Control)	9310383
6	6-5/8" Saddle Assembly	1781282
7	3/8" x 1" Cap Screw	0161045

ITEM	DESCRIPTION	PART #
8	3/8" Lock Nut	0133006
9	5/16" Hex Nut	0131019
10	5/16" Lock Washer	0141008
11	5/16" Flat Washer	0142017
12	1/2" Hex Nut	0131015
13	1/2" Flat Washer	0142026
14	Grounding Jumper	1811101
15	Mounting Bracket	9364324

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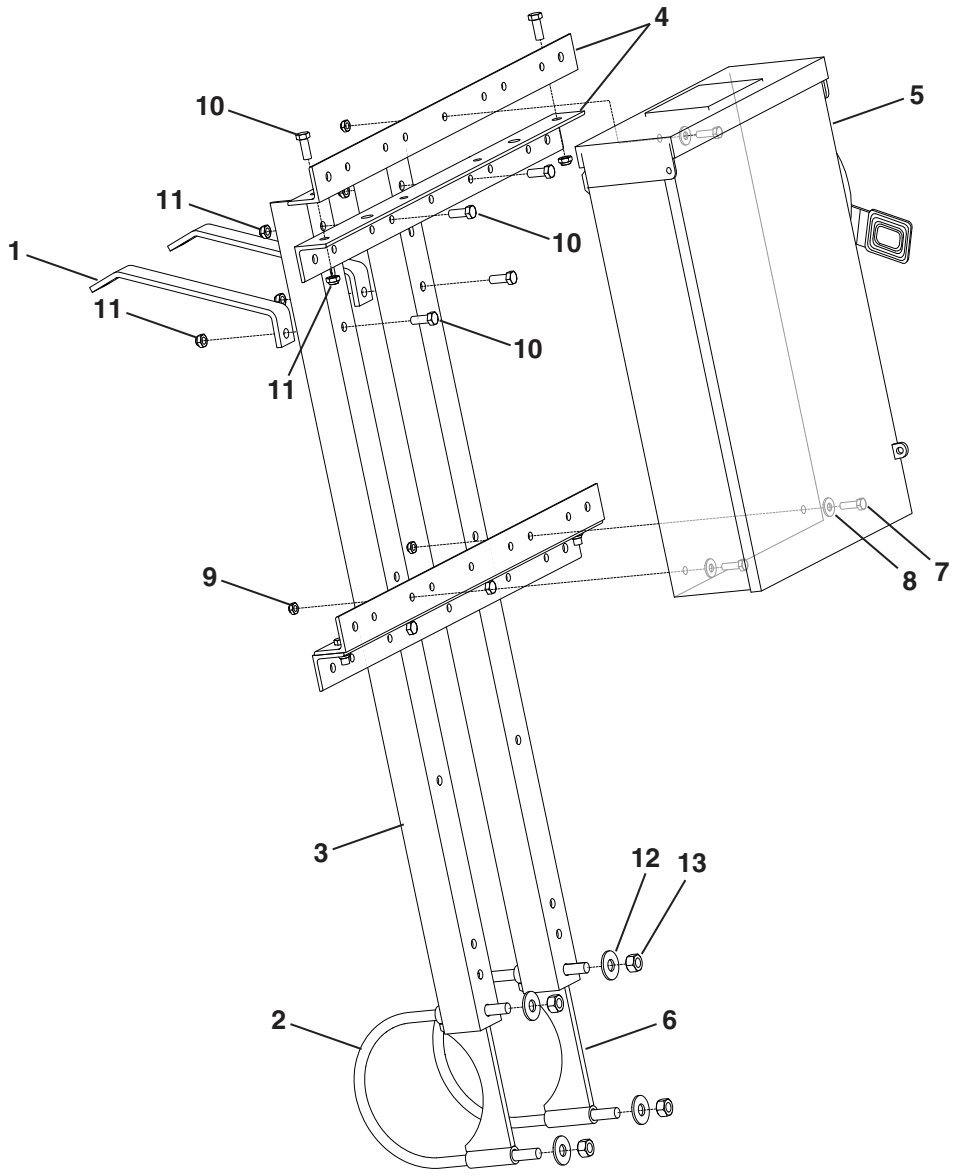
Functional Area	Assembly / Part	Rev# 07-13
Power Supply	Disconnect Panel Mounts	



ITEM	DESCRIPTION	PART #
1	Rubber Mount	0992239
2	6-5/8" U-Clamp	1781277
3	Box Mounting Angle	9332124
4	Panel Mounting Angle	9332126
5	Disconnect Panel 60 Amp	03E2926
	Disconnect Panel 100 Amp	03E2532
6	6-5/8" Saddle Assembly	1781282
7	1/4" x 1" Cap Screw	0161056
8	1/4" Lock Nut	0133008
9	5/16" Hex Nut	0131019

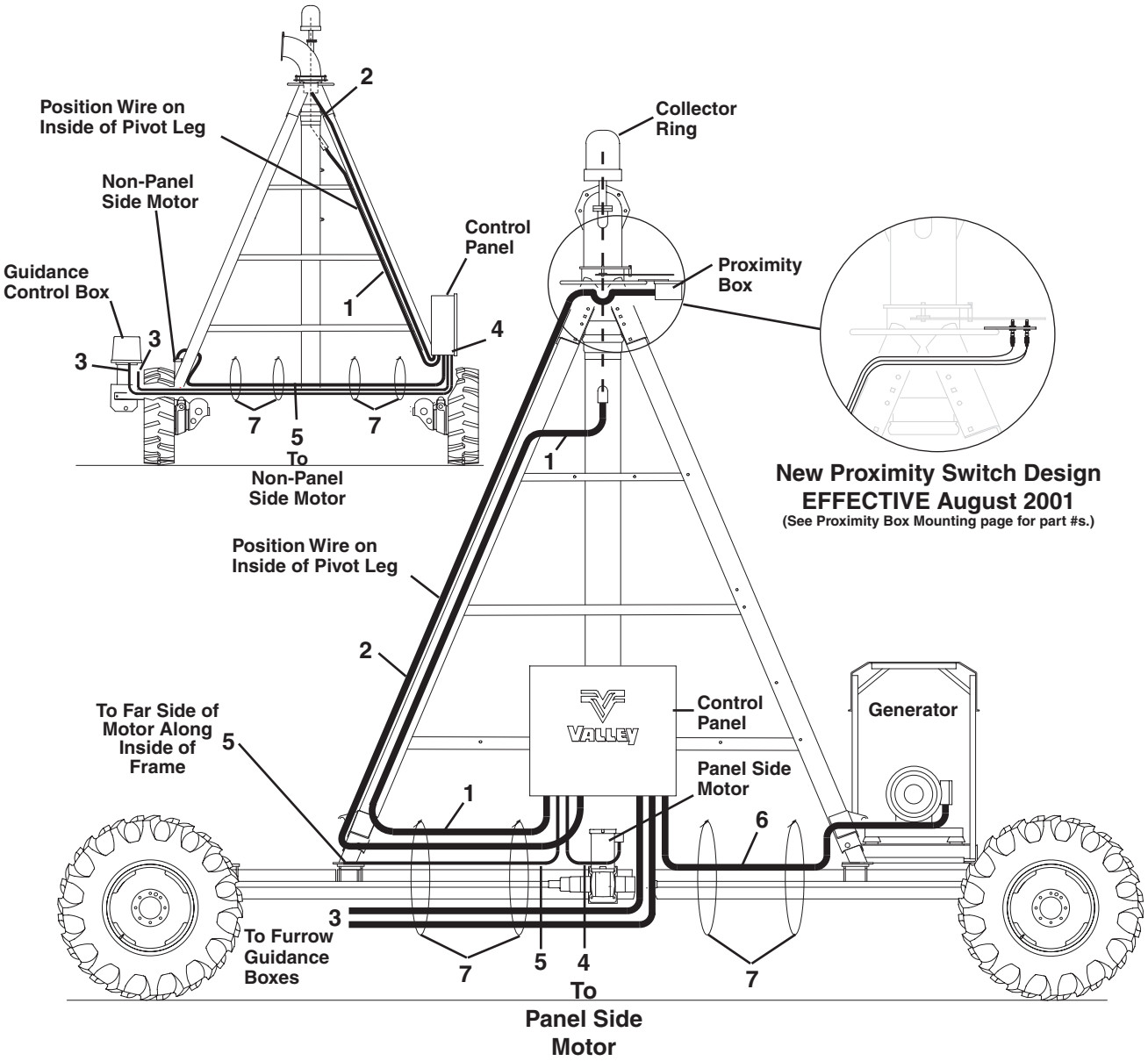
ITEM	DESCRIPTION	PART #
10	5/16" Lock Washer	0141008
11	5/16" Flat Washer	0142017
12	1/2" Hex Nut	0131015
13	1/2" Flat Washer	0142026
14	3/8" x 1" Cap Screw	0161045
15	3/8" Lock Nut	0133006
16	3/8" Flat Washer	0142031
17	Grounding Jumper	1811101
18	Mounting Bracket	9364324

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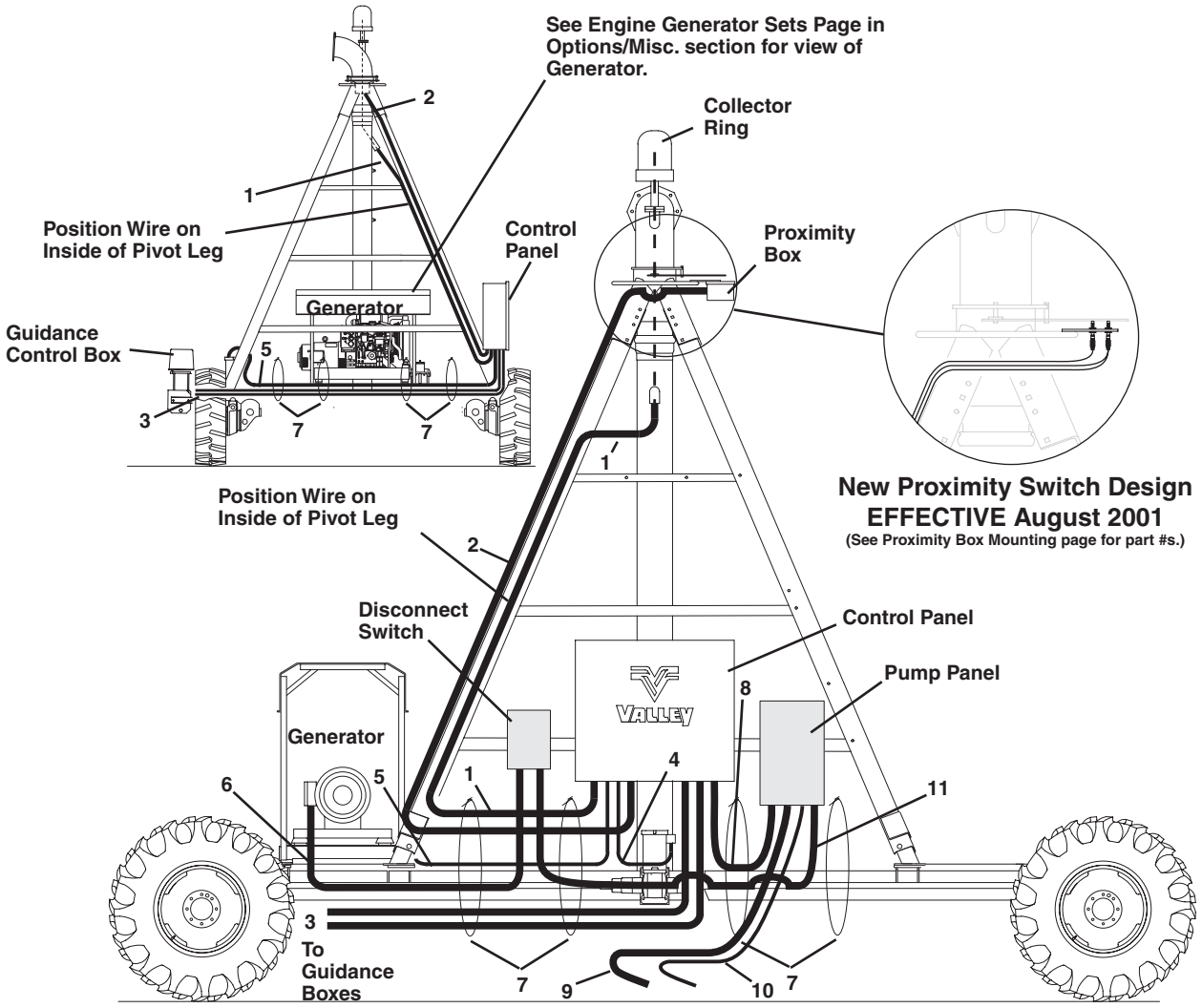
ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Mounting Bracket	9364324	7	5/16" x 1" Cap Screw	0161052
2	6-5/8" U-Clamp	1781277	8	5/16" Flat Washer	0142017
3	Box Mounting Angle	9332038	9	5/16" Lock Nut	0133007
4	Panel Mounting Angle	9363705	10	3/8" x 1" Cap Screw	0161045
5	Disconnect Panel 60 Amp	03E2926	11	3/8" Lock Nut	0133006
	Disconnect Panel 100 Amp	03E2532	12	1/2" Hex Nut	0131015
6	6-5/8" Saddle Assembly	1781282	13	1/2" Flat Washer	0142026

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ITEM	DESCRIPTION	PART #
1	Control Panel to Collector 11 Cond. 12 Ga. - 24' Long	9310266
	Control Panel to Collector 11 Cond. 10 Ga. - 24' Long	1811605
	Control Panel to Collector 12 Cond. 12 Ga. - 24' Long	9310267
	Control Panel to Collector 12 Cond. 10 Ga. - 24' Long	1811446
	Control Panel to Collector 16 Cond. 10 Ga. - 24' Long	9310270
2	Control Panel to Proximity Box 11 Cond. 12 Ga. - 24' Long	9310266
3	Control Panel to Furrow Guidance Control Box 11 Cond. 12 Ga. - 28' Long (2 Req'd)	9310268
4	Control Panel to Motor Lead 4 Cond. 14 Ga. - 7' Long (1 Req'd)	1813774
5	Control Panel to Motor Lead 4 Cond. 14 Ga. - 23' Long (1 Req'd)	1813775
6	Generator to Control Panel Sealtite Conduit - 10.5' Long	1811171
7	Steel Strap - 24" Long	0271021

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ITEM	DESCRIPTION	PART #
1	Control Panel to Collector 11 Cond. 12 Ga. - 24' Long	9310266
	Control Panel to Collector 11 Cond. 10 Ga. - 24' Long	1811605
	Control Panel to Collector 12 Cond. 12 Ga. - 24' Long	9310267
	Control Panel to Collector 12 Cond. 10 Ga. - 24' Long	1811446
	Control Panel to Collector 16 Cond. 10 Ga. - 24' Long	9310270
2	Control Panel to Proximity Box 11 Cond. 12 Ga. - 24' Long	9310266
3	Control Panel to Furrow Guidance Control Box 11 Cond. 12 Ga. - 28' Long (2 Req'd)	9310268
	Control Panel to Cable Guidance Control Box 11 Cond. 12 Ga. - 33' Long (2 Req'd)	9310369
4	Control Panel to Motor Lead 4 Cond. 14 Ga. - 7' Long (1 Req'd)	1813774
5	Control Panel to Motor Lead 4 Cond. 14 Ga. - 23' Long (1 Req'd)	1813775
6	Generator to Disconnect Sealtite Cond. 10 Ga. - 16' Long (15 KW, 20 KW Gen.)	1813584
	Generator to Disconnect Sealtite Cond. 8 Ga. - 16' Long (25 KW Gen.)	1813589
	Generator to Disconnect Sealtite Cond. 6 Ga. - 16' Long (30 KW Gen.)	1813565
	Generator to Disconnect Sealtite Cond. 4 Ga. - 16' Long (40 KW Gen.)	1813573
7	Steel Strap - 24" Long	0271021
8	Pump Panel to Control Panel 4 Cond. 6 Ga., 2 Cond. 14 Ga. - 5' Long	1813592
9	Pump Panel to Pump Motor 4 Cond. 10 Ga.	* 1813567 ** 1813585
	Pump Panel to Pump Motor 4 Cond. 8 Ga.	* 1813586 ** 1813587
	Pump Panel to Pump Motor 4 Cond. 6 Ga.	* 1813608 ** 1813609
10	Pump Panel to Float Switch Box 5 Cond. - 27' Long	03E0355
11	Assm Raceway Disconnect to Pump Panel 8 Ga. (10 H.P. Pump Motor)	1813588
	Assm Raceway Disconnect to Pump Panel 6 Ga. (15 - 20 H.P Pump Motor)	1813599
	Assm Raceway Disconnect to Pump Panel 4 Ga. (25 H.P. Pump Motor)	1813598

NOTE: *20' Straddle Ditch - **35' Side Ditch

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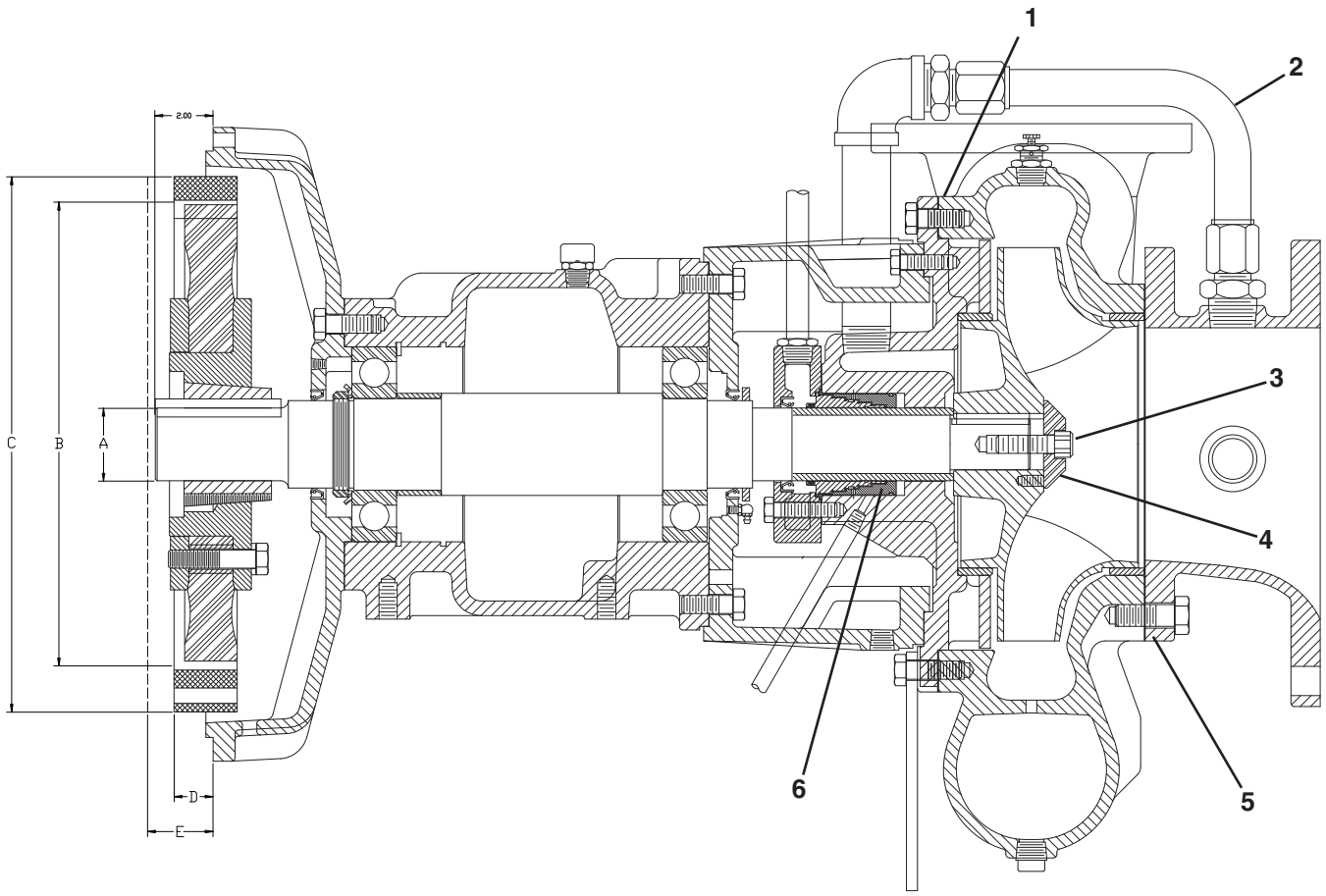
PUMPS						
4RB EM16	5RB EM16	6YB EM16	6YB EM18	6RB EM18	8H EM18	10RB EM18DB
0996542	0996543	0997294	0997213	0996544	0995306	0995504

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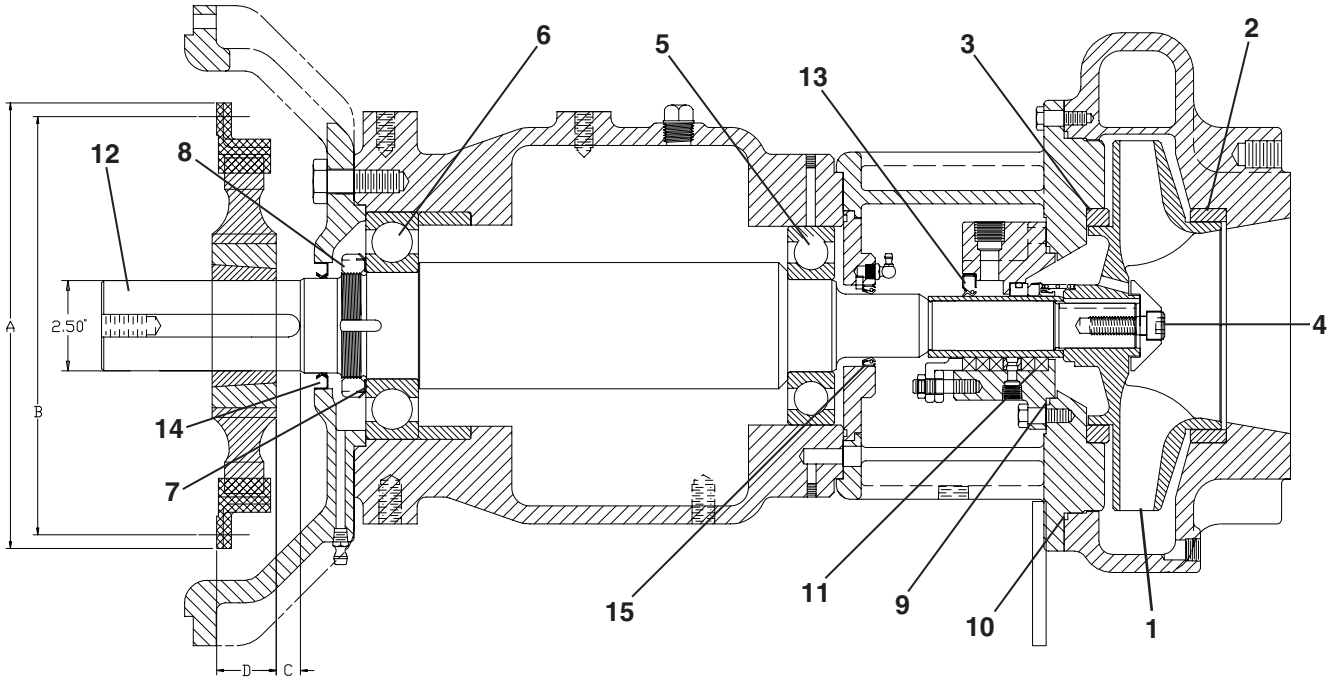
DESCRIPTION	PART #
Pump - 10 x 10 SC1010C14	0996694
Pump - 8 x 6 SC86C14	0997947
Pump - 6 x 6 SC66C14	0996919
Pump - 6 x 4 SC64C10	0996773

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

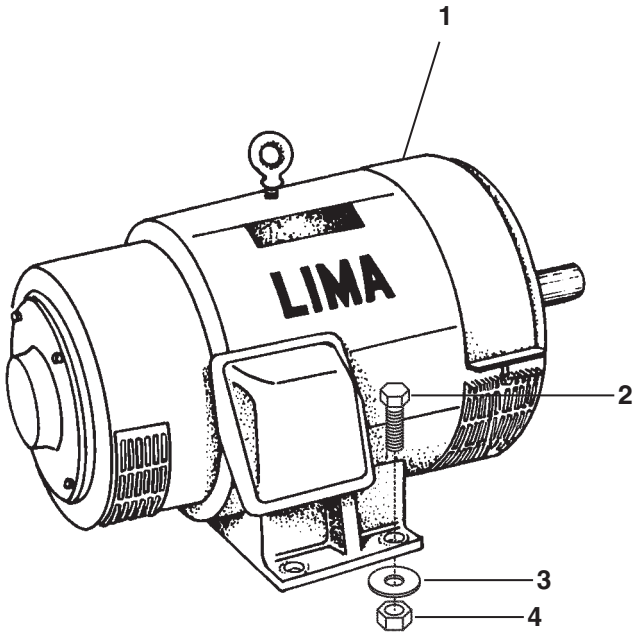
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		SC64C10		SC66C14	
ITEM	**DESCRIPTION**	**PIONEER #**	**VALMONT #**	**PIONEER #**	**VALMONT #**
1	Trimmed Impeller	-	-	-	0997189 OBSOLETED Apr 17
2	Wear Ring	109081453	0996835 OBSOLETED Apr 17	109081769	0997190 OBSOLETED Apr 17
3	Wear Ring	109081454	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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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 Generator - wt. 577 pounds	0314881
	25 KW Lima Generator - wt. 609 pounds	0314886
	30 KW Lima Generator - wt. 634 pounds	0314887
2	5/8" x 1-3/4" Cap Screw	0161088
3	5/8" Flat Washer	0142011
4	5/8" Lock Nut	0133010

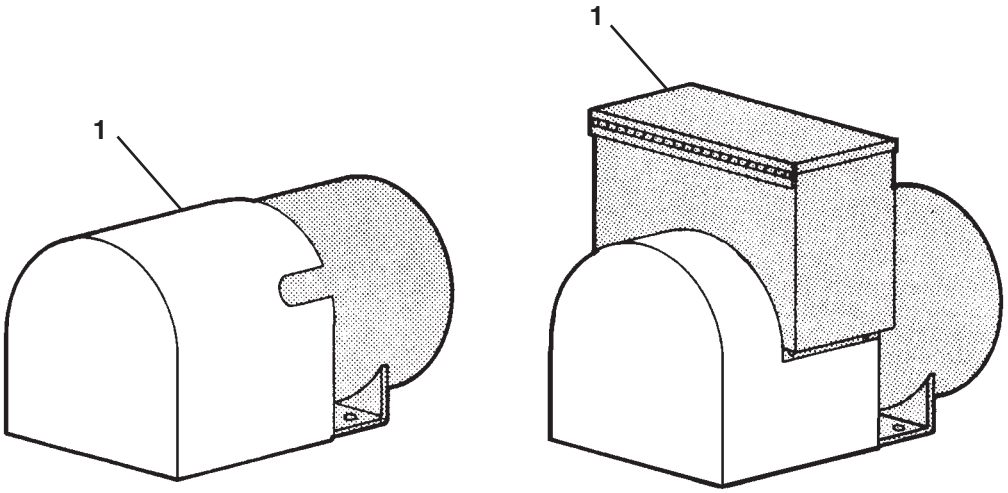
LIMA GENERATOR REPAIR PARTS

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.

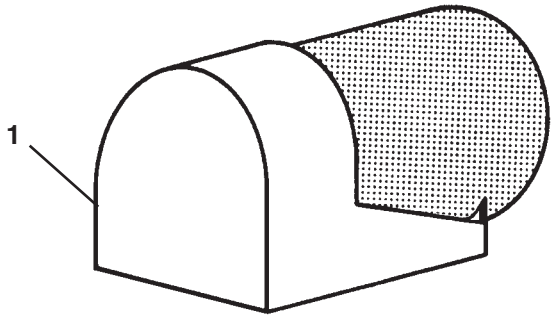
** **NOTE** Repair item for units sold ***after*** mid 1987 - Generators S/N begins with 3264.

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TYPE "A"

TYPE "B"

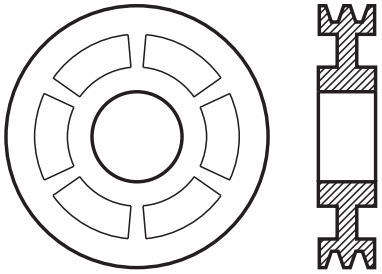


TYPE "C"

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

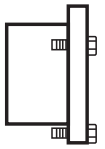
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ITEM 1



2 GROOVE SHEAVE - TYPE 16

ITEM 2

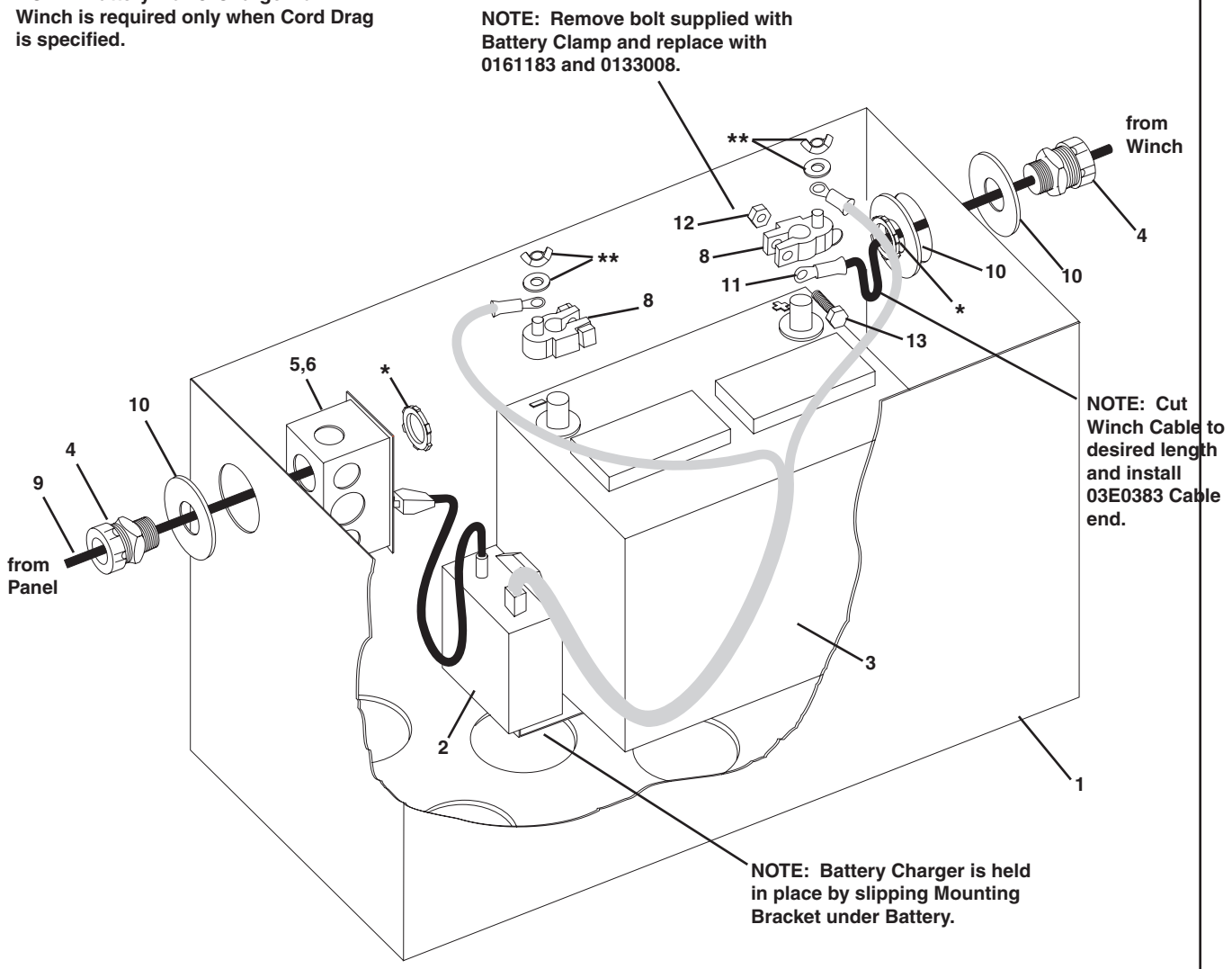


BUSHING WITH
1/2" SQUARE KEY

ITEM	DESCRIPTION	OUTSIDE DIA	PITCH DIA.	TYPE	PART #	
1	Browning 4 Groove Sheave	6.35"	6.0"	13	0993358	
	Browning 4 Groove Sheave	6.55"	6.2"	13	0993359	
	Browning 4 Groove Sheave	6.75"	6.4"	13	0993360	
	Browning 4 Groove Sheave	6.95"	6.6"	13	0993361	"5V"
	Browning 4 Groove Sheave	7.15"	6.8"	13	0993362	
	Browning 4 Groove Sheave	7.35"	7.0"	13	0993363	
	Browning 4 Groove Sheave	7.75"	7.4"	13	0993364	
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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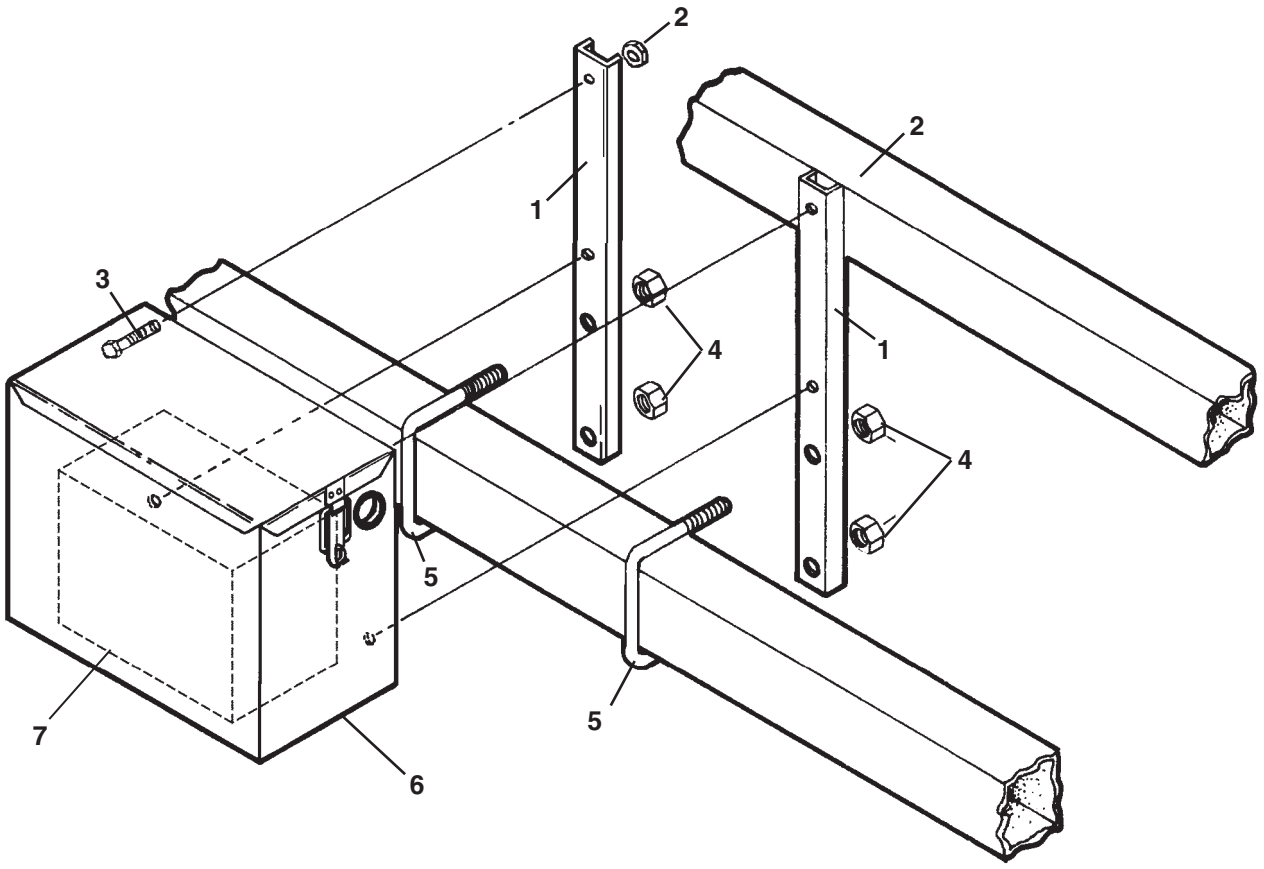
NOTE: Battery Box & Charger for Winch is required only when Cord Drag is specified.



ITEM	DESCRIPTION	PART #
1	Battery Box Assembly	1730127
2	Battery Charge Kit - 12V	03E1932
3	Battery, Group 31M - 12V	0980280
	Battery, Group 24 - OBSOLETE Jun 2017	0993420
4	Cord Connector	0314119
5	Outlet Box	03E1692
6	Duplex Receptacle, 5-15Amps	03E1691
7	Receptacle Cover	03E1693
8	Battery Clamp w/Stud	03E1933
9	Electrical Cable - 4 Cond. 14 Ga., 20' - 6"	1812008
10	1" Valve Washer	0142020
11	1/4" Ring Tongue Terminal	03E0383
12	1/4" Lock Nut	0133008
13	1/4" x 1-1/4" Cap Screw	0161183

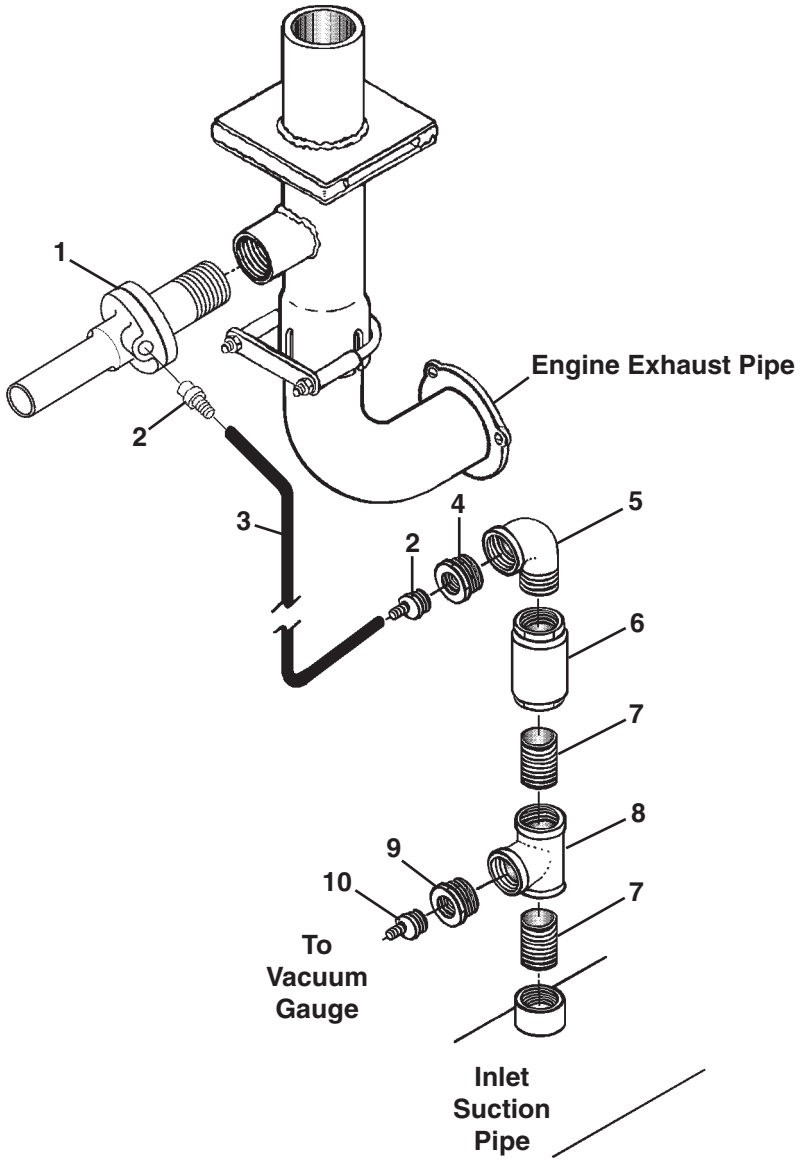
* NOTE: Included with Item 4.
** NOTE: Included with Item 7.

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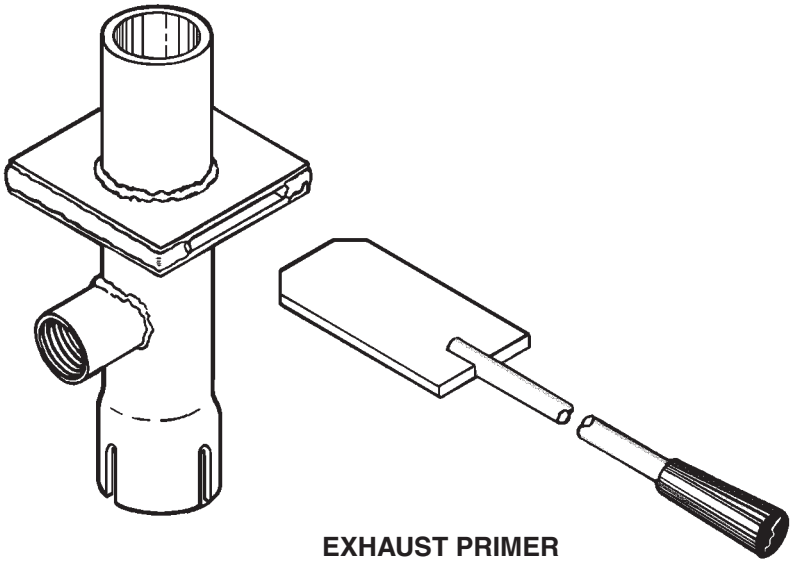
ITEM	DESCRIPTION	PART #
1	Battery Box Mount	1730216
2	1/2" Lock Nut	0133005
3	1/2" x 1-1/4" Cap Screw	0161027
4	3/4" Hex Nut	0131008
5	U-Bolt 3/4" x 7"	0176048
6	Battery Box Assembly	1730127
7	Battery Group 31M - 12V	0980280
	Battery (Group 24 - 625 CCA) - OBSOLETE Jun 2017	0993420
	Battery (Group 31P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

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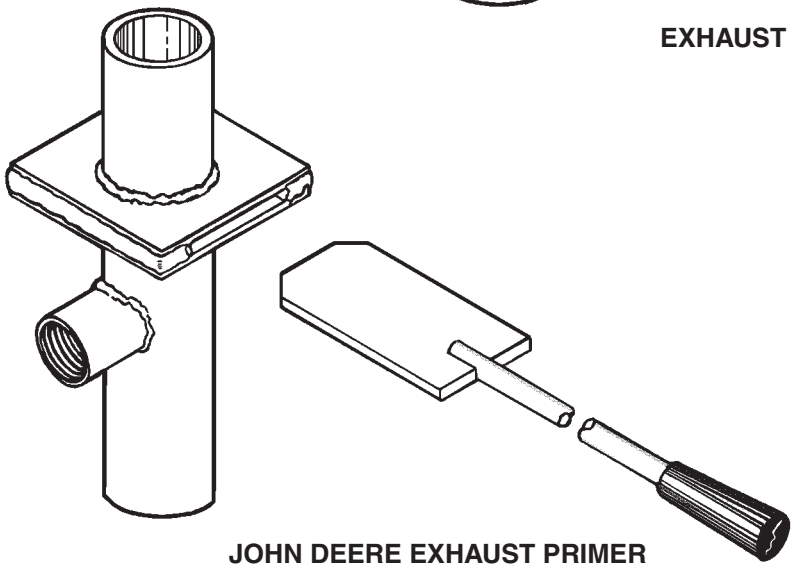


ITEM	DESCRIPTION	PART #
1	Exhaust Primer	0992240
2	3/8" x 3/8" Hose Insert	0270017
3	3/8" I.D. Hose - 14' Long	1731721
4	1" x 3/8" Reducer Bushing	0244019
5	1" x 90° Street Elbow	0241017
6	1" Brass Check Valve	0232404
7	1" x 1-1/2" Close Nipple	0211012
8	1" Tee	0242005
9	1" x 1/4" Reducer Bushing	0244007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

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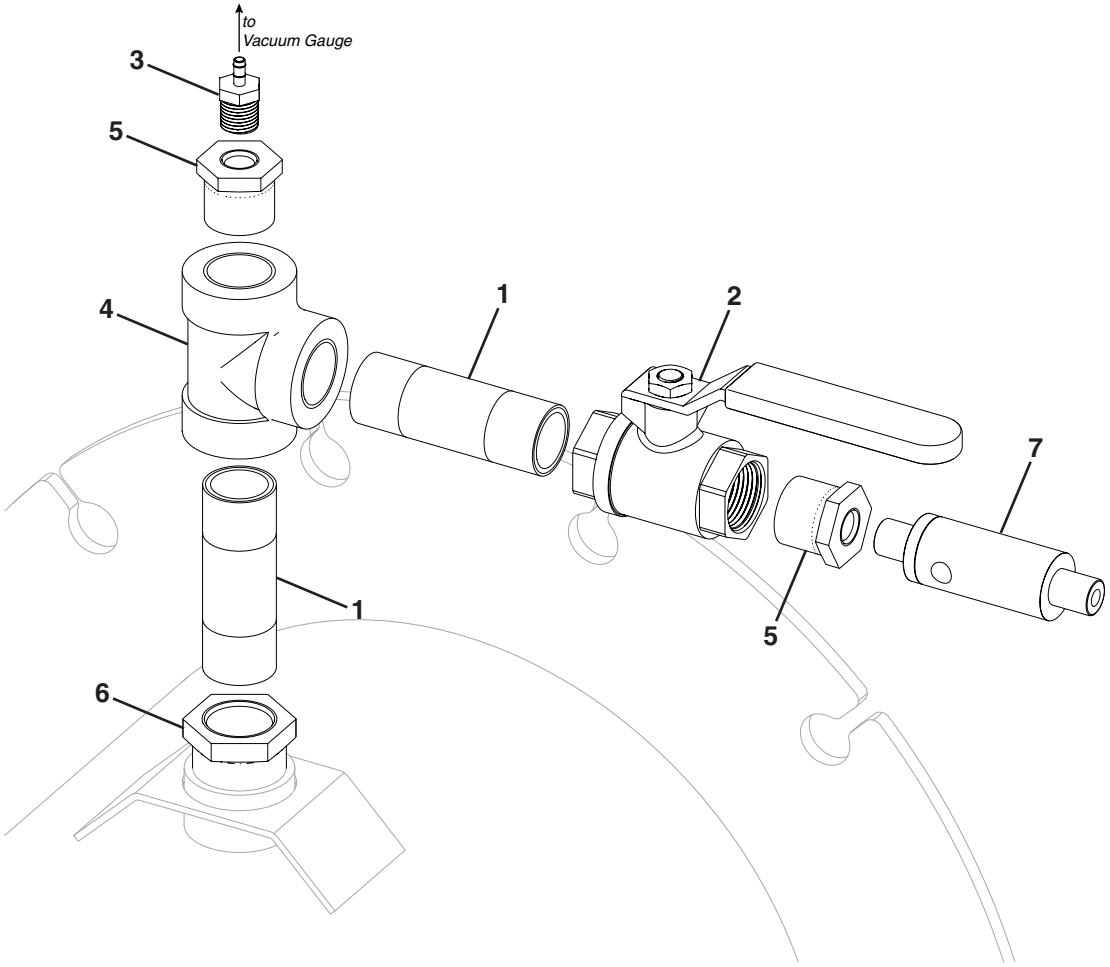
EXHAUST PRIMER



JOHN DEERE EXHAUST PRIMER

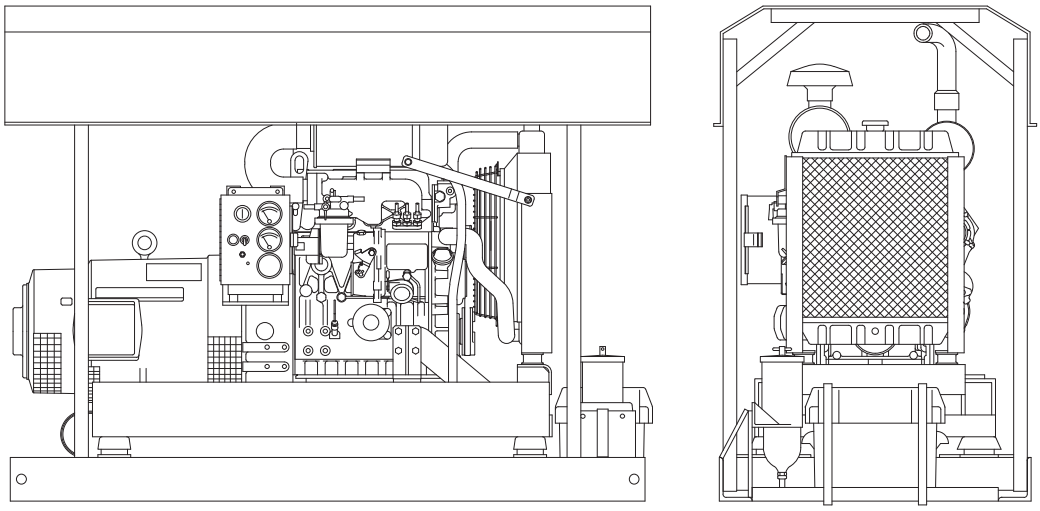
DESCRIPTION	SIZE	PART #
John Deere Exhaust Primer	2.37" I.D. x 2.50" O.D.	0994647 OBSOLETED Mar 17
	2.87" I.D. x 2.50" O.D.	0994648 OBSOLETED Mar 17
	3.87" I.D. x 4.00" O.D.	0994649
Exhaust Primer	2.50" I.D. x 2.50" O.D.	0995404
	2.25" I.D. x 2.25" O.D.	0995406
	3.00" I.D. x 3.00" O.D.	0995407
	4.00"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

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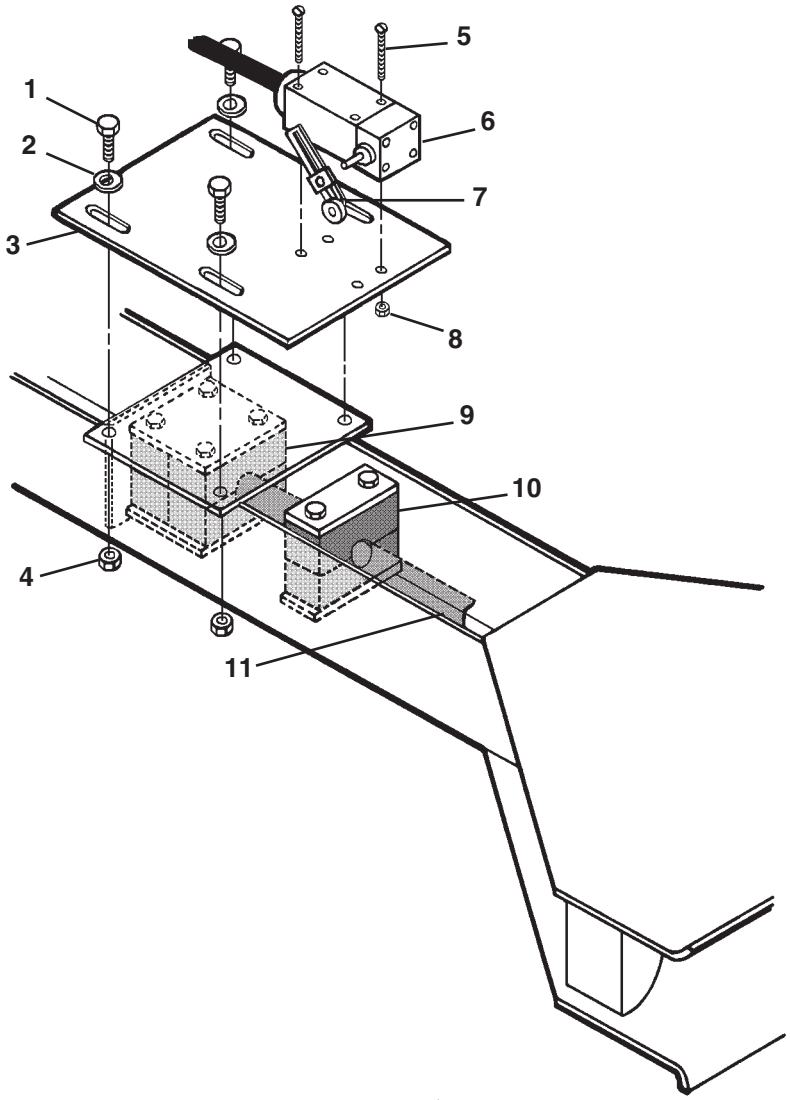
ITEM	DESCRIPTION	PART #
1	3/4" x 3" Nipple - Galvanized	0211055
2	3/4" Ball Valve - Brass Full Throw	0232045
3	1/4" NPT x 1/4" Tube Connector - Brass	0232366
4	3/4" x 3/4" x 3/4" Tee Fitting - Galvanized	0242002
5	3/4" x 1/4" Reducer Fitting - Galvanized	0244025
6	1" x 3/4" Reducer Fitting - Galvanized	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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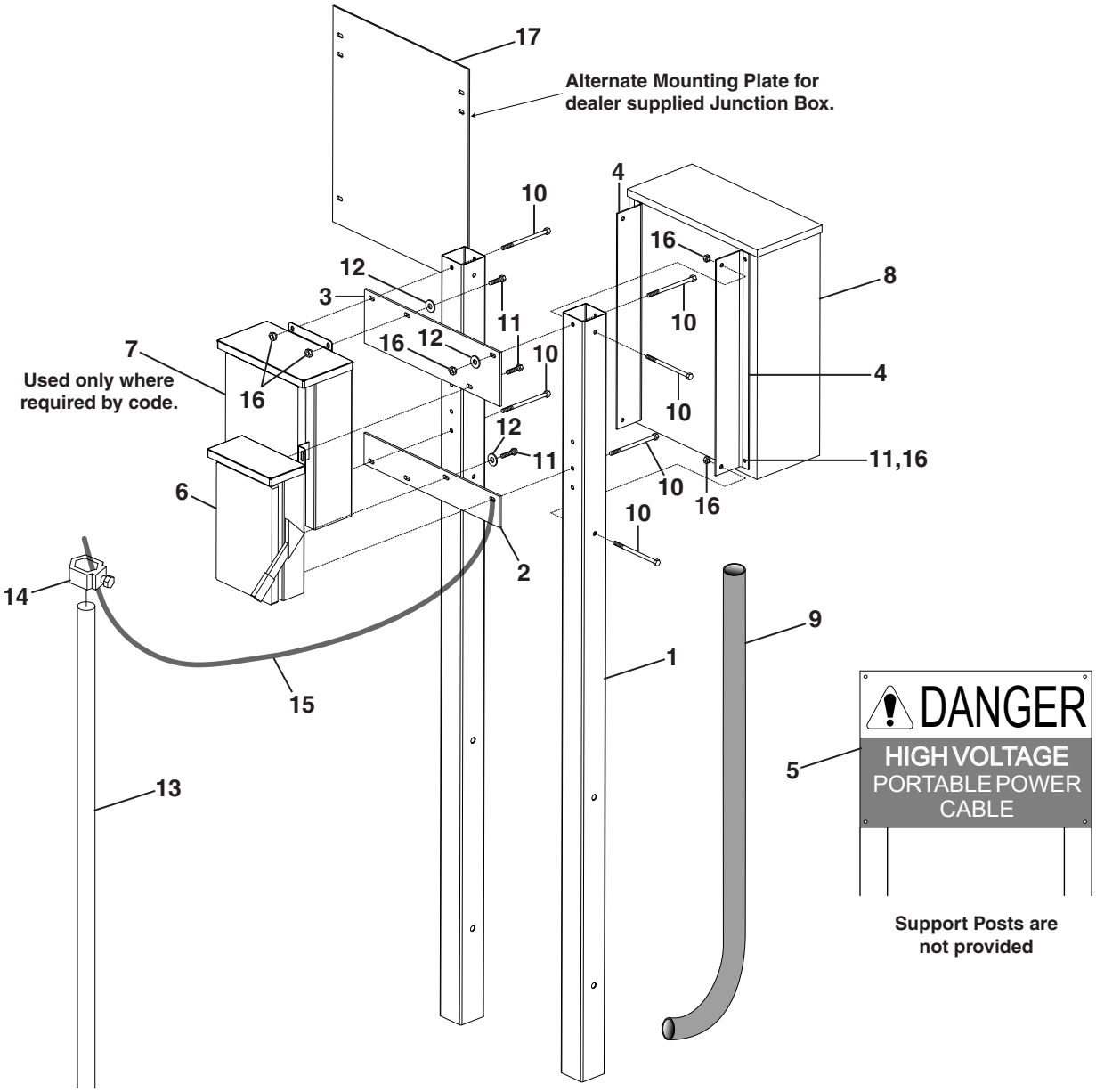
DESCRIPTION	FRAME SIZE	PART #
7.5 KW - Isuzu	Small	0996208
10 KW - Isuzu	Small	0996209
12 KW - Isuzu	Small	0996210
15 KW - Isuzu	Large	0996211
18 KW - Isuzu	Large	0996235
20 KW - John Deere	Large	0996805
25 KW - John Deere	Large	0996806
30 KW - John Deere	Large	0996807
5 KW - Yanmar	Large	0997809
7.5 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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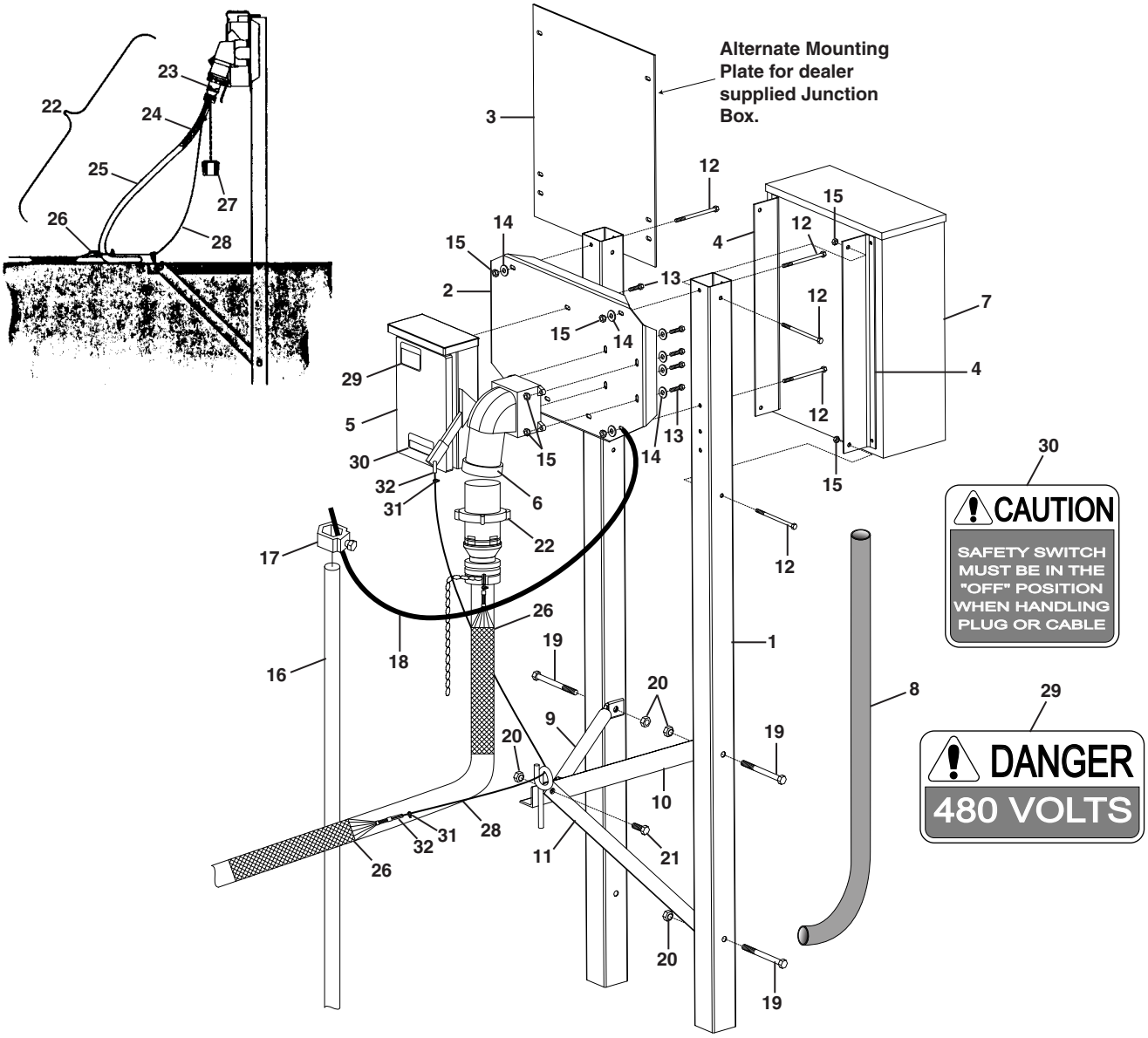
ITEM	DESCRIPTION	PART #
1	5/16" x 1" Cap Screw	0161052
2	5/16" Flat Washer	0142017
3	Switch Mount	1732262
4	5/16" Lock Nut	0133007
5	#10 x 2-1/2" Round Head Machine Screw	0164083
6	Limit Switch Assembly	1811451
7	Adjustable Switch Arm	0315802
8	#10 Hex Nut	0131055
9	Large Cord Block	0315800
10	Small 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
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
16	Ground Rod	0314910
17	Ground Clamp	0314911

ITEM	DESCRIPTION	PART #
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

Universal Linear - Effective 1-18

Description	Rev. #	Pg. #
Truss Package Locations	01-97	7-4
Truss Angle Packages	12-97	7-5
6-5/8" & 8-5/8" Ditch Feed Inlet Pipe	01-97	7-6
10" Ditch Feed Inlet Pipe	01-97	7-7
6-5/8" & 8-5/8" Hose Drag Inlet Pipe	06-17	7-8
Model 8000 Poly Span Hose Drag Inlet Pipe	09-98	7-9

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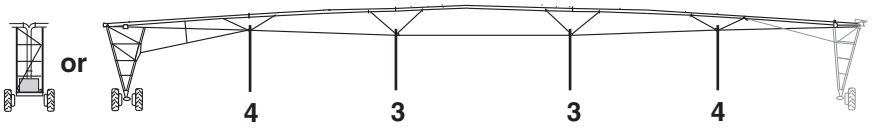
CART SPANS



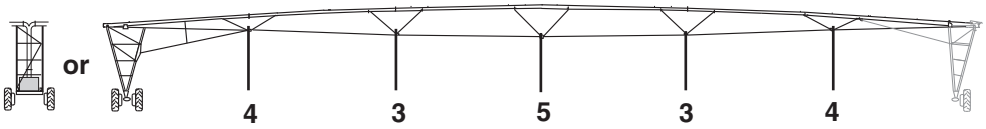
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MODEL 8000

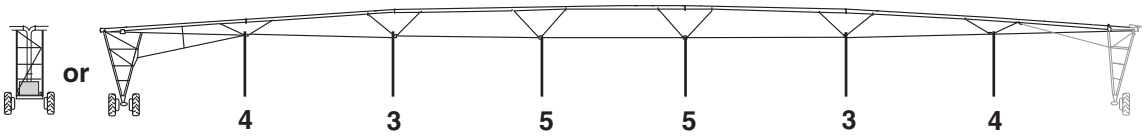
115' Span



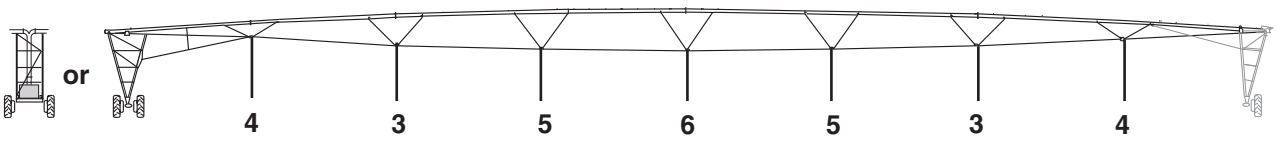
135' & 140' Span



157.5' & 160' Span



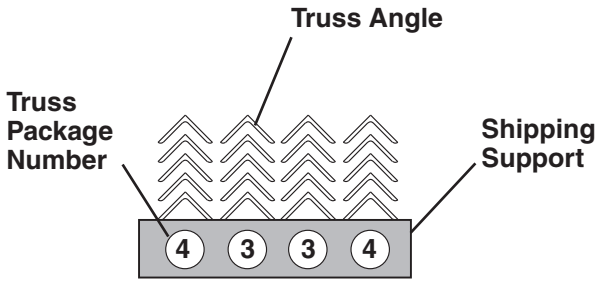
180', 185' & 187' Span



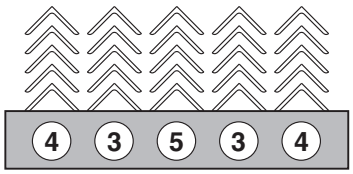
NOTE: All 10" Cart Spans Use Standard 10" Add Span Trussing.

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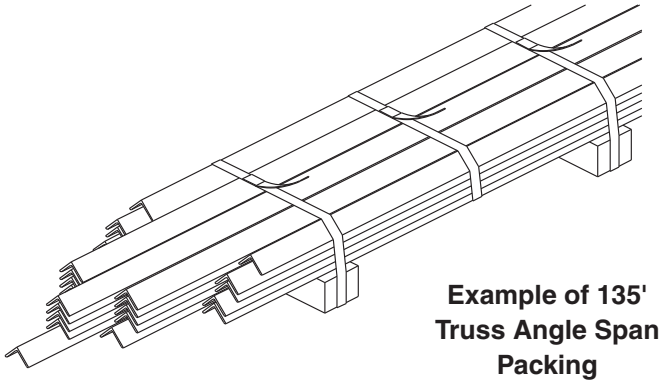
MODEL 8000



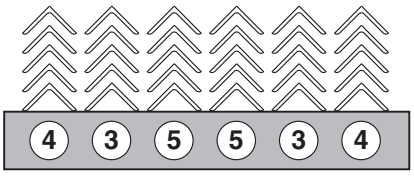
115' Truss Angle Span Pack (KA09117)



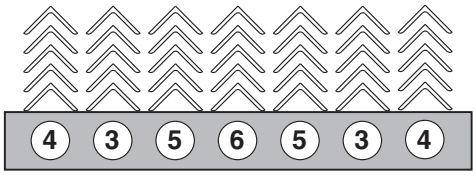
135' & 140' Truss Angle Span Pack (KA09047)



Example of 135' Truss Angle Span Packing



157.5' & 160' Truss Angle Span Pack (KA09050)



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

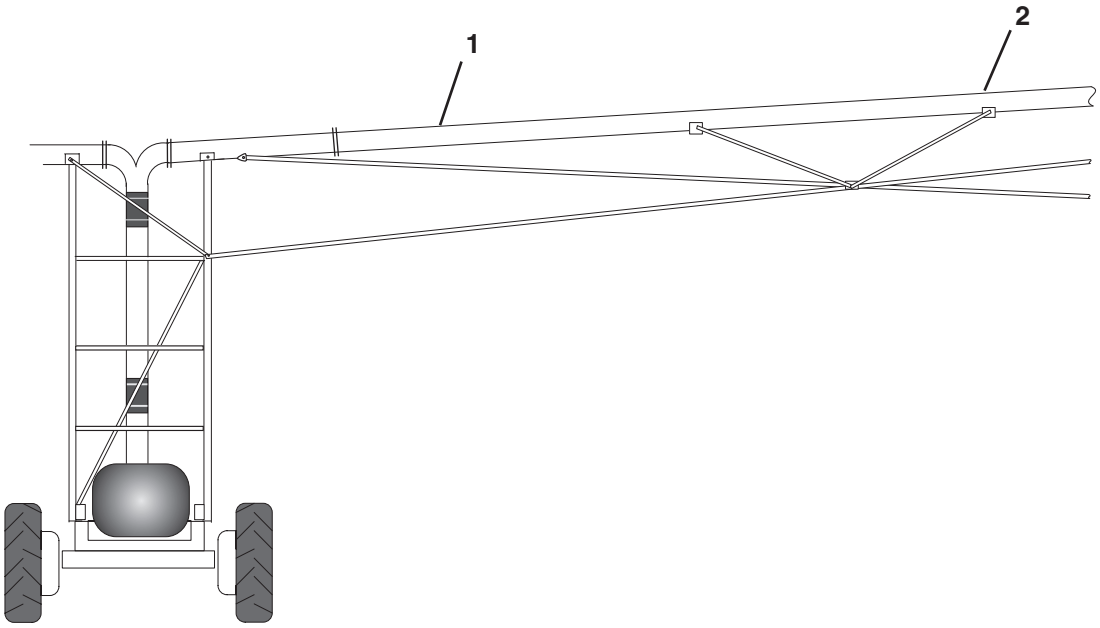
NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

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 8000

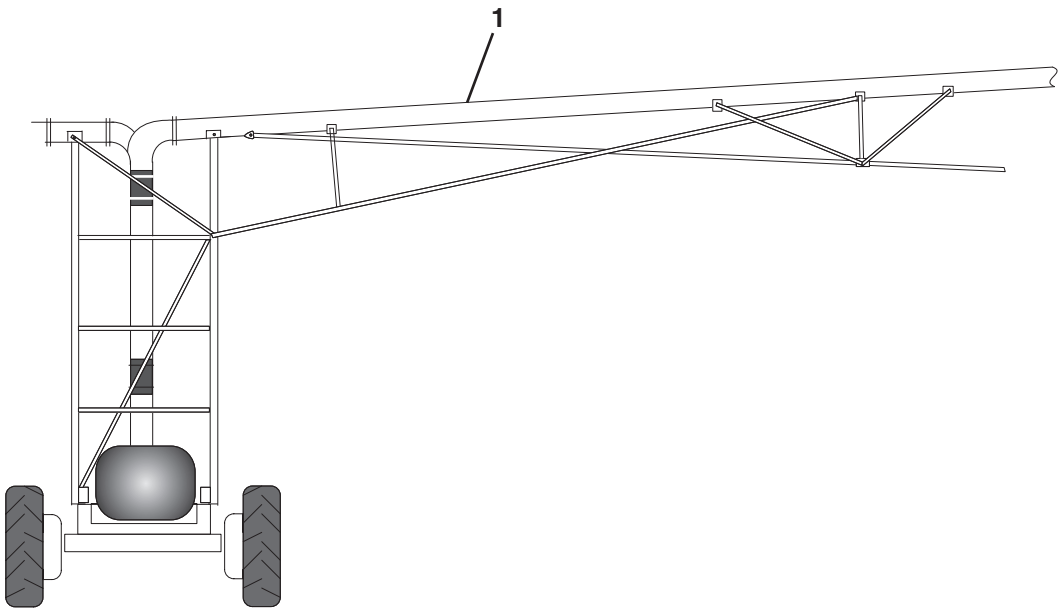


Item	Description	30" Spacing	108" Spacing	90" Spacing
1	6-5/8" Last Pipe (44'-10.75")	9360024	9360016	9360132*
	8-5/8" Transition Pipe (44'-10.75")	9360093	9360088	9360101*
2	6-5/8" Intermediate Pipe (22'-5.28")	-	-	9360124
	8-5/8" Intermediate Pipe (22'-5.28")	-	-	9360094

***22'-5.28" Long Pipe**

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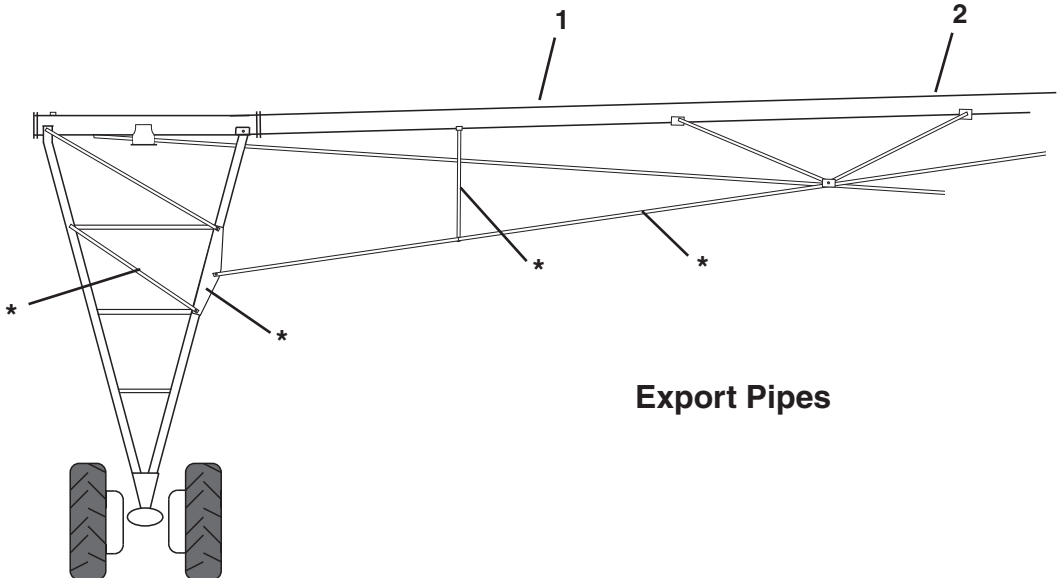
MODEL 8000



Item	Description	Part #
1	10" Transition/Inlet Pipe, 30" Spacing	1781560

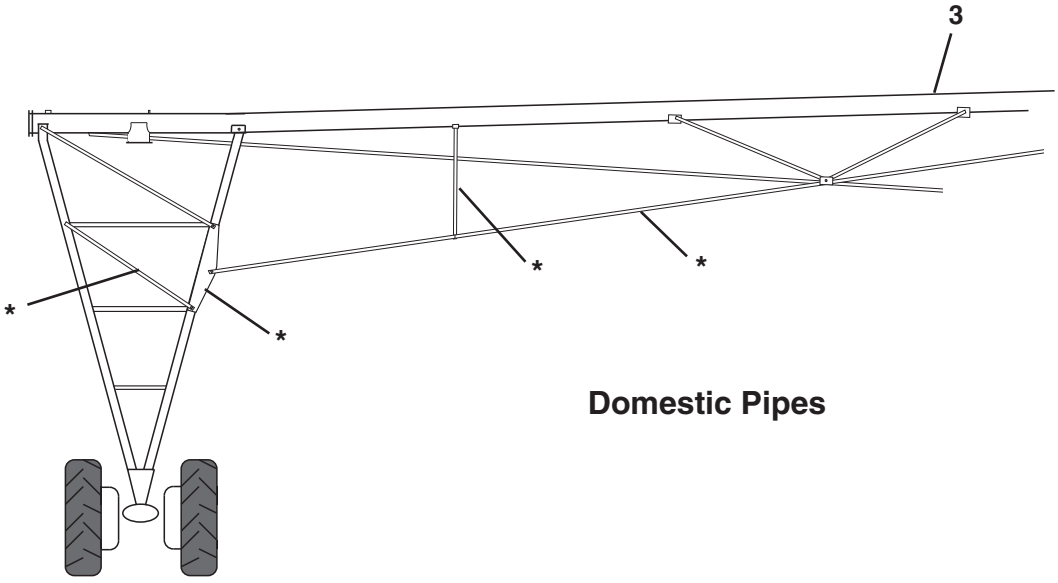
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MODEL 8000



Export Pipes

Item	Description	90" Spacing	30" Spacing
1	6-5/8" Inlet Pipe (22'-5.28")	9332002	9360459
	8-5/8" Inlet Pipe (22'-5.28")	9360417	9361189
2	6-5/8" Intermediate Pipe (22'-5.28")	9360124	9360456
	8-5/8" Intermediate Pipe (22'-5.28")	9360094	9360623



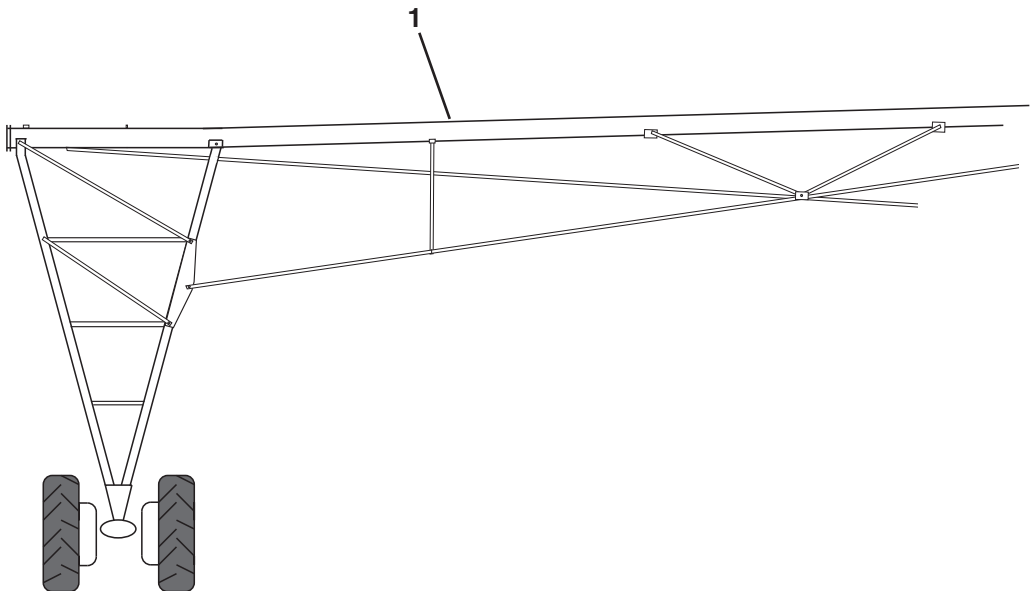
Domestic Pipes

Item	Description	90" Spacing	30" Spacing
3	6-5/8" Inlet Pipe (44'-10.75")	9332178	9332177
	8-5/8" Inlet Pipe (44'-10.75")	9332180	9332179

*** Additional Bracing Used On Swing Around Option Only.**

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MODEL 8000



ITEM	DESCRIPTION	90" SPACING PART#
1	6-5/8" Poly Span Last Pipe (45')	9360383

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CART SPANS - MODEL 8120

Universal Linear - Effective 05/98

Description	Rev. #	Pg. #
Truss Package Locations	01-99	8-4
Truss Angle Packages	01-99	8-5
6-5/8" & 8-5/8" Ditch Feed Inlet Pipe	12-15	8-6
6-5/8" & 8-5/8" Hose Drag Inlet Pipe	12-15	8-7

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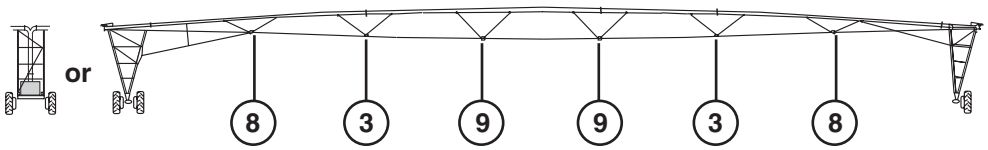
CART SPANS



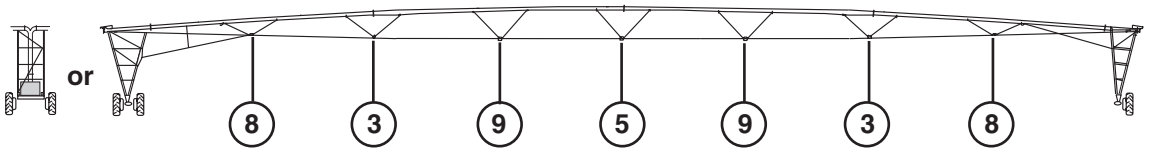
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MODEL 8120

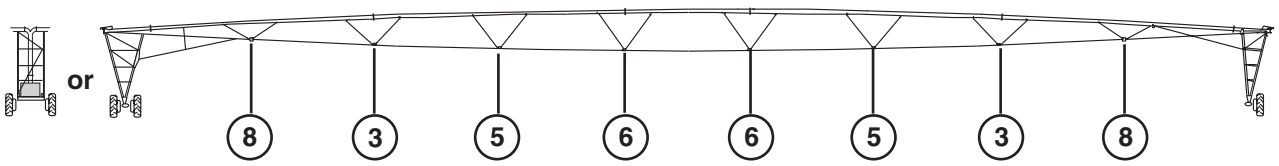
142.3' Span
[43.37M]



161.2' Span
[49.12M]



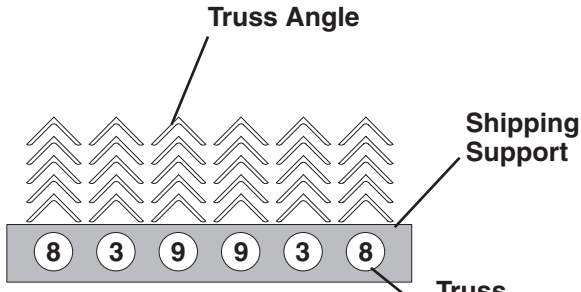
180' Span
[54.88M]



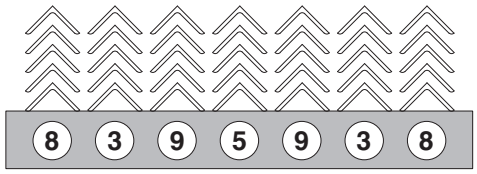
NOTE: **Shown as Center Feed Cart Span. For End Feeds the Cart is placed on the Fixed end of an Add Span.**

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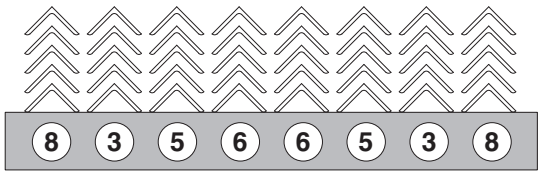
MODEL 8120



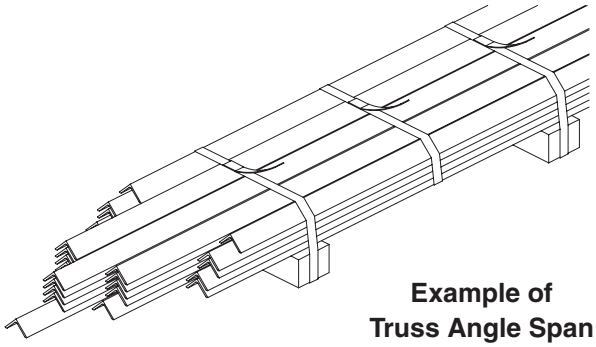
142.3'[43.37M] Truss Angle Span Pack (KA09283)



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



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



Example of Truss Angle Span Packing

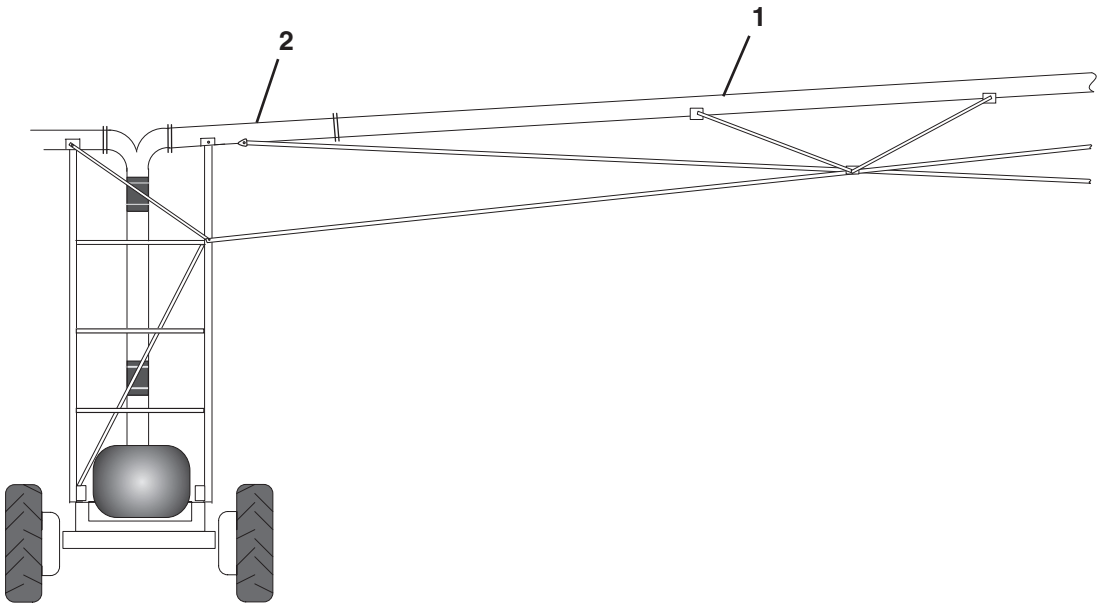
NOTE: Truss Packages listed do not contain required Trapezoid Plates, and Inner & Outer Truss Rod Sockets. THESE PARTS MUST BE ORDERED SEPARATELY.

TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
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" [312.3cm]
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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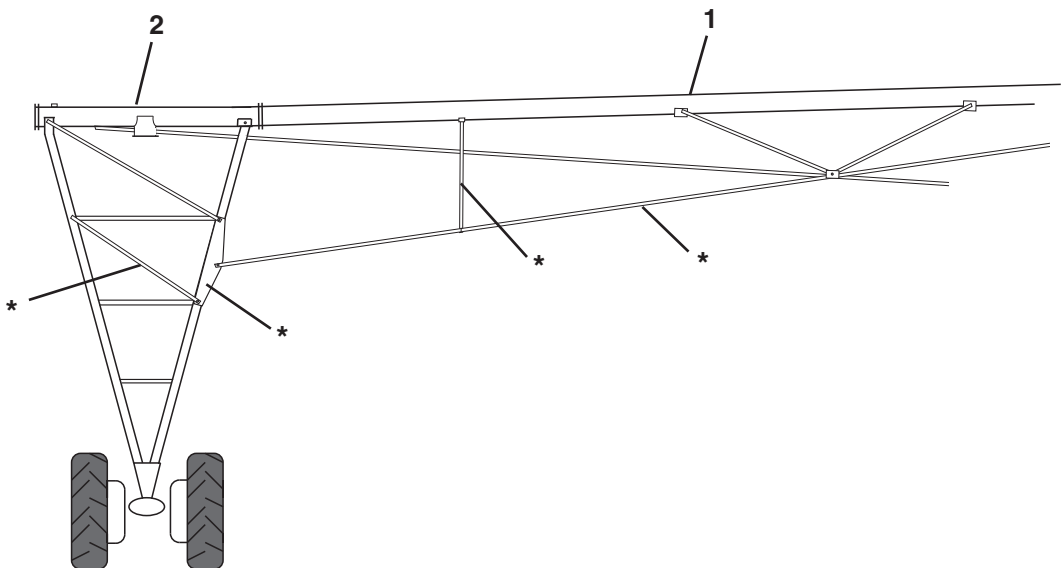
MODEL 8120



Item	Description	113.3"[287.8cm] Spacing	75.5"[191.8cm] Spacing
1	6-5/8" Intermediate Pipe (37'-9.00")[388.6cm]	9360686	9360687
	8-5/8" Intermediate Pipe (37'-9.00")[388.6cm]	9360702	9360703
2	6-5/8" Last Stub Pipe (4'-9.47")[145.9cm]	9360676	9360676
	8-5/8" Cart Stub Pipe (4'-9.50")[146.1cm]	9360801	9360801

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MODEL 8120



Item	Description	113.3"[287.8cm] Spacing	75.5"[191.8cm] Spacing
1	6-5/8" Intermediate Pipe (37'-9.00")[388.6cm]	9360686	9360687
	8-5/8" Intermediate Pipe (37'-9.00")[388.6cm]	9360702	9360703
2	6-5/8" Last Stub Pipe (4'-9.47")[145.9cm]	9360676	9360676
	8-5/8" Hose Drag Stub Pipe (4'-9.50")[146.1cm]	9360695	9360695

Additional Bracing Used On Swing Around Option Only.

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PolySpan® - CART SPANS

Universal Linear - Effective 11/04

Description	Rev. #	Pg. #
Model 8000P		
Truss Package Locations	11-04	9-4
Truss Angle Packages	11-04	9-5
Model 8000 PolySpan Hose Drag Inlet Pipe	08-18	9-6
PolySpan Riser Pipe	12-15	9-7
Model 8120P		
Truss Package Locations	11-04	9-10
Truss Angle Packages	11-04	9-11
6-5/8" & 8-5/8" Hose Drag Inlet Pipe	01-16	9-12
PolySpan Riser Pipe	12-15	9-13

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8UL090018
08-18

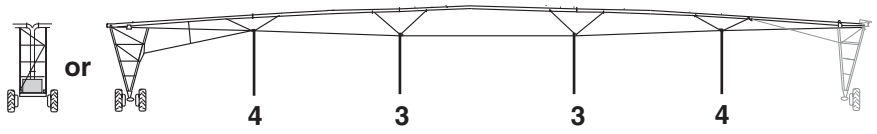
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PolySpan
CART SPANS

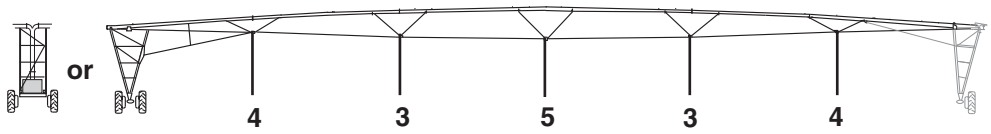


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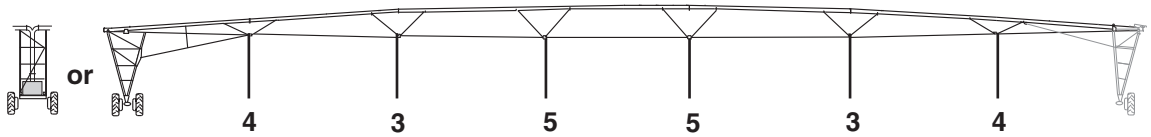
115' Span



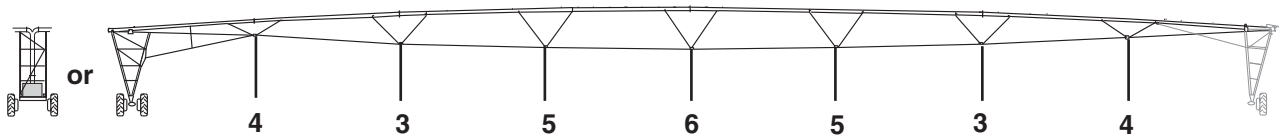
135' & 140' Span



157.5' & 160' Span

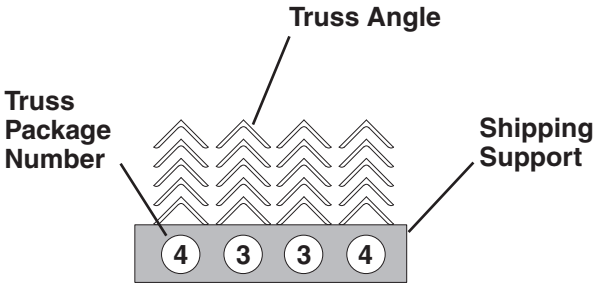


180', 185' & 187' Span

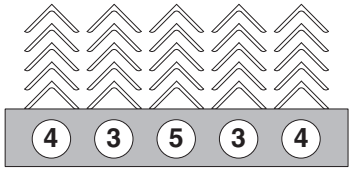


NOTE: All 10" Cart Spans Use Standard 10" Add Span Trussing.

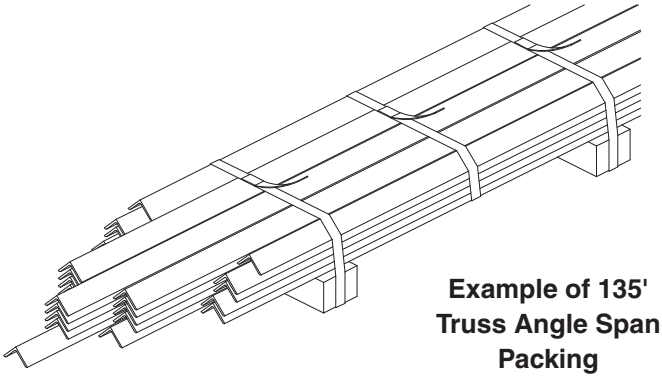
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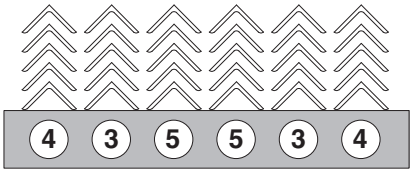
115' Truss Angle Span Pack (KA09117)



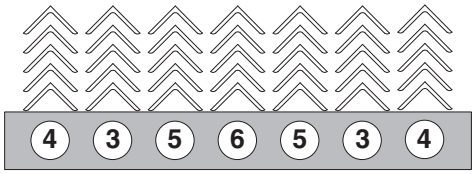
135' & 140' Truss Angle Span Pack (KA09047)



Example of 135' Truss Angle Span Packing



157.5' & 160' Truss Angle Span Pack (KA09050)



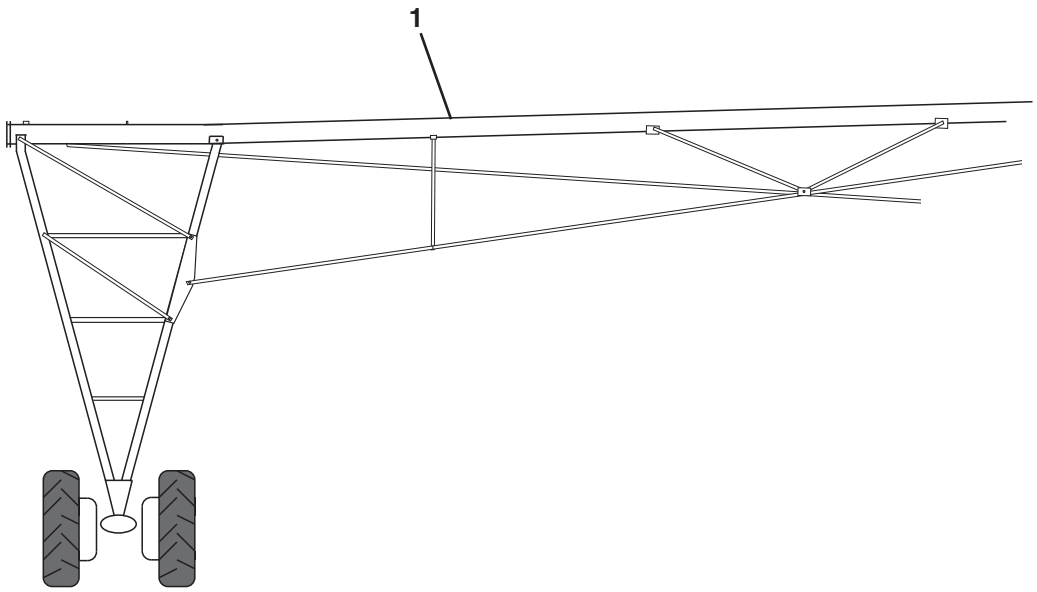
180', 185' & 187' Truss Angle Span Pack (KA09025)

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"

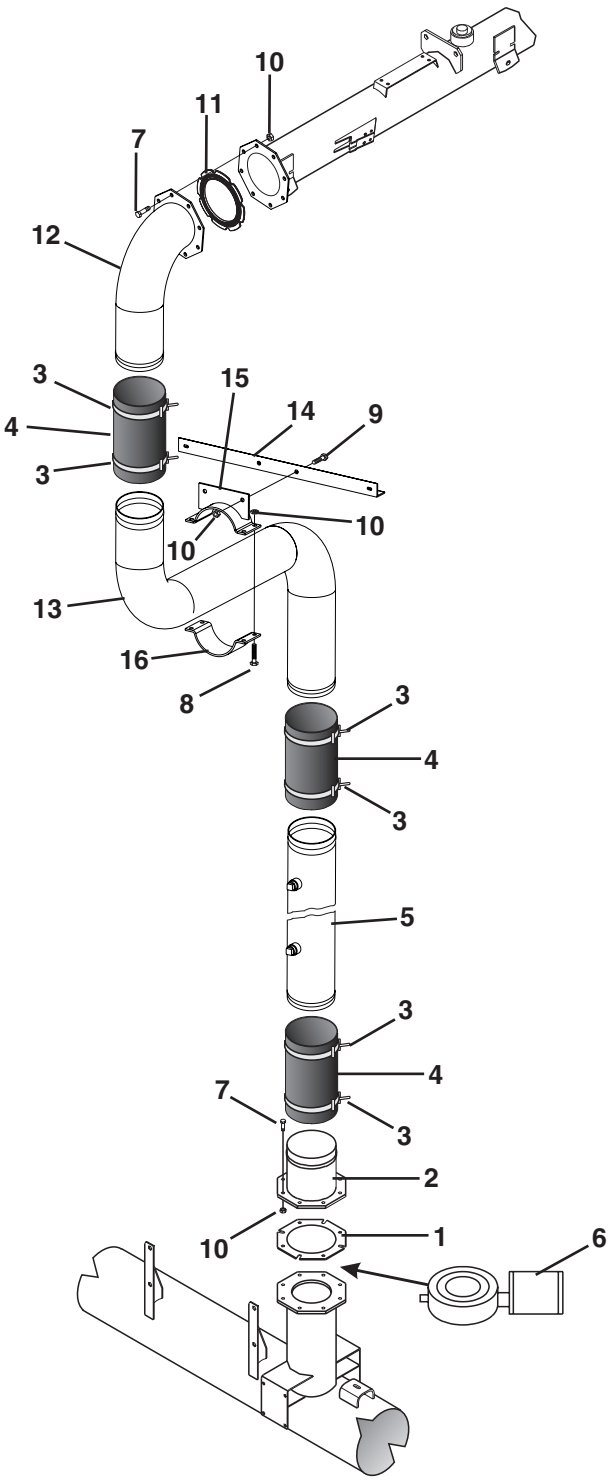
** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.

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ITEM	DESCRIPTION	Prior to 01-06 108" Spacing PART#	Eff. 01-06 108" Spacing PART#	Eff. 08-05 60" Spacing PART#	Prior to 08-05 30" Spacing PART#
1	6-5/8" Poly Span Last Pipe (45')	9361849	9362687	9362477	9361843
2	8-5/8" Poly Span Last Pipe (45')	9361867	9362735	9362485	9361859

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ITEM	DESCRIPTION	PART #
1	8" Rubber Gasket	0996566
2	Discharge Hose Barb	1730145
3	6-5/8" Flex Joint Clamp	0991087
4	6-5/8" Flex Hose	1800318
5	Riser Pipe, Low Profile	9332154
6	6" Butterfly Valve w/Actuator (Optional)	0992620
7	1/2" x 2" Cap Screw	0161024
	1/2" x 4-1/2" Cap Screw (Optional)	0161110*
8	1/2" x 2-1/2" Cap Screw	0161023
9	1/2" x 1-1/4" Cap Screw	0161027

ITEM	DESCRIPTION	PART #
10	1/2" Lock Nut	0133005
11	Gasket	0991107
12	Poly Linear Inlet Elbow Assembly - 6-5/8"	9360853
	Poly Linear Inlet Elbow Assembly - 8-5/8"	9360891
13	Poly Linear Upper Riser Assembly	9360854
14	Linear Cross Support Brace	9360859
15	Poly Linear Upper Riser Support Clamp	9360857
16	Pipe Clamp	1700622

*** USED WITH OPTIONAL 6" SHUTOFF VALVE (Item# 6)**

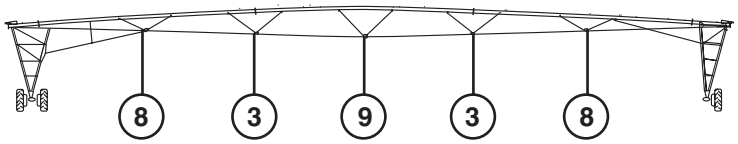
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PolySpan
CART SPANS

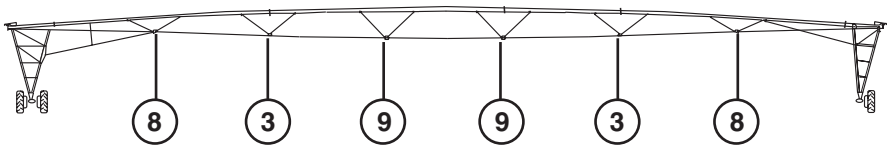


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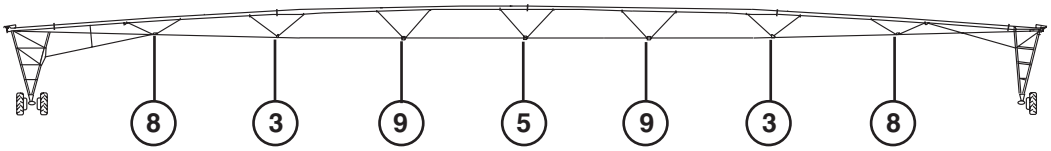
123.4' Span
[37.61M]



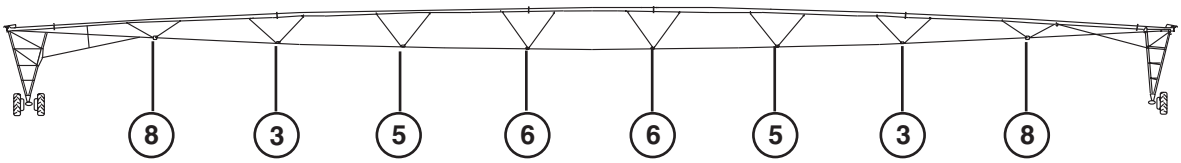
142.3' Span
[43.37M]



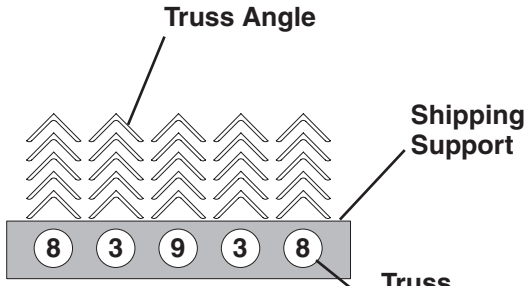
161.2' Span
[49.12M]



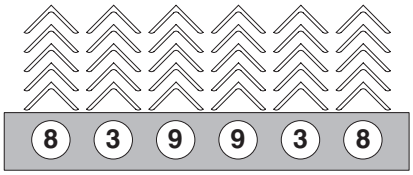
180' Span
[54.88M]



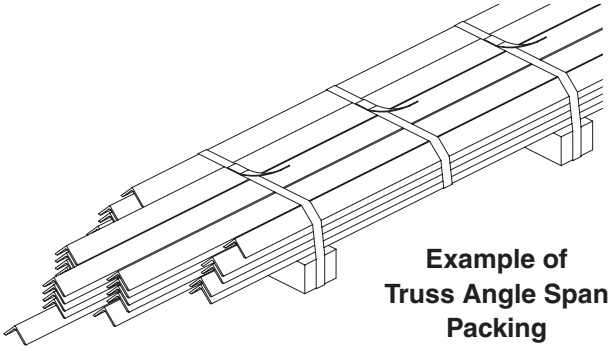
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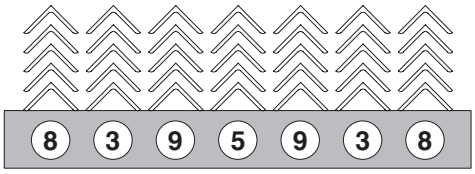
123.4'[37.61M] Truss Angle Span Pack (KA09364)



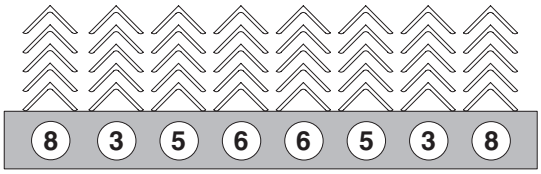
142.3'[43.37M] Truss Angle Span Pack (KA09283)



Example of Truss Angle Span Packing



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



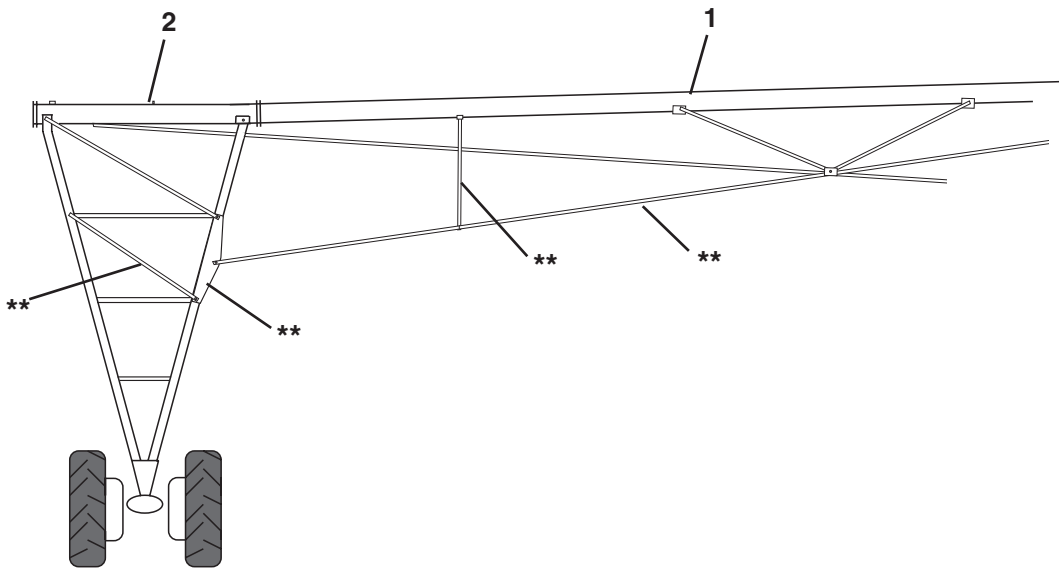
180'[54.88M] Truss Angle Span Pack (KA09288)

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	
	Part #	Overall Length	Part #	Overall Length
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" [312.3cm]
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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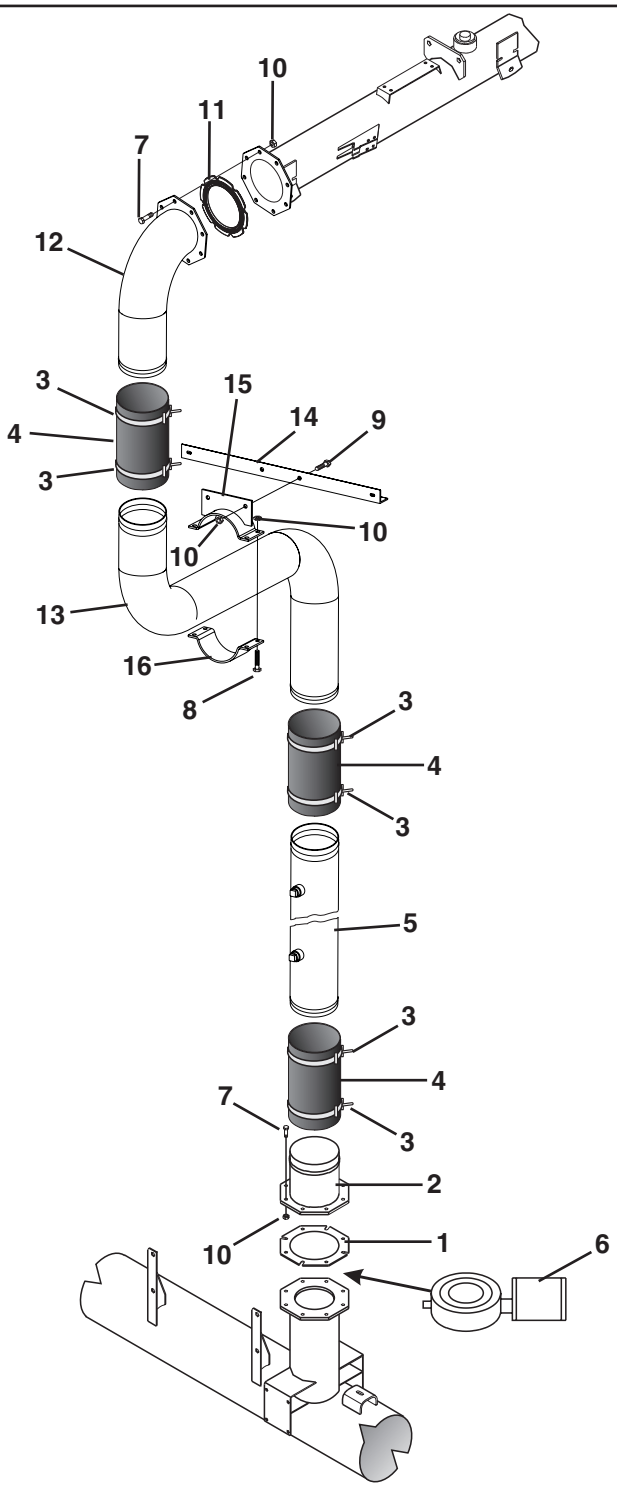


		75.5"[191.8cm]	*38"[96.5cm]
Item	**Description**	**Spacing**	**Spacing**
1	6-5/8" Intermediate Pipe (37'-9.00")[388.6cm]	9360730 OBSOLETED Nov. 2015	9360729 OBSOLETED Nov. 2015
	8-5/8" Intermediate Pipe (37'-9.00")[388.6cm]	9360888 OBSOLETED Nov. 2015	9360887 OBSOLETED Nov. 2015
2	6-5/8" Hose Drag Stub Pipe (4'-9.41")[145.8cm]	9360727 OBSOLETED Nov. 2015	9360727 OBSOLETED Nov. 2015
	8-5/8" Hose Drag Stub Pipe (4'-9.50")[146.1cm]	9360889 OBSOLETED Nov. 2015	9360889 OBSOLETED Nov. 2015

*** Special Order Only (Contact Valley Customer Service)**

**** Additional Bracing Used On Swing Around Option Only.**

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ITEM	DESCRIPTION	PART #
1	8" Rubber Gasket	0991146
2	Discharge Hose Barb	1730145
3	6-5/8" Flex Joint Clamp	0991087
4	6-5/8" Flex Hose	1800318
5	Riser Pipe, Low Profile	9332154
6	6" Butterfly Valve w/Actuator (Optional)	0992620
7	1/2" x 2" Cap Screw	0161024
	1/2" x 4-1/2" Cap Screw (Optional)	0161110*
8	1/2" x 2-1/2" Cap Screw	0161023
9	1/2" x 1-1/4" Cap Screw	0161027
10	1/2" Lock Nut	0133005
11	Gasket	0991107
12	Poly Linear Inlet Elbow Assembly - 6-5/8"	9360853
	Poly Linear Inlet Elbow Assembly - 8-5/8"	9360891
13	Poly Linear Upper Riser Assembly	9360854
14	Linear Cross Support Brace	9360859
15	Poly Linear Upper Riser Support Clamp	9360857
16	Pipe Clamp	1700622

*** USED WITH OPTIONAL 6" SHUTOFF VALVE (Item# 6)**

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ADD & FREESTANDING SPANS - MODEL 8000

Universal Linear - Effective 1-18

Description	Rev. #	Pg. #
6-5/8" Pipe - 30" & 108" Coupler Spacing		
30" & 108" Spacing Truss Package Locations	01-97	10-4
30" & 108" Spacing Truss Angle Packages	12-97	10-5
30" & 108" Spacing Pipe/Truss Rod Locations	01-97	10-6
30" & 108" Spacing Pipes/Truss Rods	01-09	10-7
Sprinkler Coupling Locations	01-97	10-8
Sprinkler Coupling Location Details	01-97	10-9
Assembly Details	01-97	10-10
8-5/8" Pipe - 30" & 108" Coupler Spacing		
Truss Package Locations	01-97	10-12
Truss Angle Packages	12-97	10-13
Pipe/Truss Rod Locations	10-98	10-14
Pipes/Truss Rods	03-08	10-15
Sprinkler Coupling Locations	10-98	10-16
Sprinkler Coupling Location Details	01-97	10-17
Assembly Details	01-97	10-18
10" Pipe - 30" Coupler Spacing		
Truss Package Locations	09-98	10-20
Truss Angle Locations	09-98	10-21
Pipe/Truss Rod Locations	01-97	10-22
Pipes/Truss Rods	03-08	10-23
Sprinkler Coupling Locations	01-97	10-24
Sprinkler Coupling Location Details	01-97	10-25
Assembly Details	01-97	10-26
6-5/8" Export Pipe - 90" Coupler Spacing		
Truss Package Locations	01-97	10-28
Truss Angle Packages	12-97	10-29
Pipe/Truss Rod Locations	01-97	10-30
Pipes/Truss Rods	03-08	10-31
Sprinkler Coupling Locations	01-97	10-32
Sprinkler Coupling Location Details	01-97	10-33
Assembly Details	01-97	10-34
8-5/8" Export Pipe - 90" Coupler Spacing		
Truss Package Locations	01-97	10-36
Truss Angle Packages	12-97	10-37
Pipe/Truss Rod Locations	01-97	10-38
Pipes/Truss Rods	03-08	10-39
Sprinkler Coupling Locations	01-97	10-40
Sprinkler Coupling Location Details	01-97	10-41
Assembly Details	01-97	10-42

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8UL100018
08-18

Description	Rev. #	Pg. #
Pipeline Accessories		
Pipe Drain	02-13	10-44
Flanges & Gaskets	01-97	10-45
Transition Pipes	01-97	10-46
Zero Length Transitions	01-97	10-47
Flex Hose & Hitch Components	08-18	10-48

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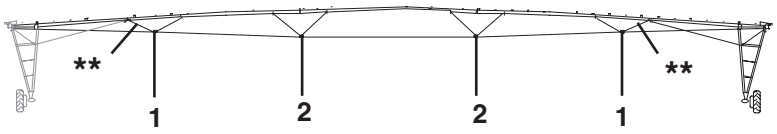
ADD & FREESTANDING SPANS
6-5/8" PIPE
30" & 108" COUPLER SPACING



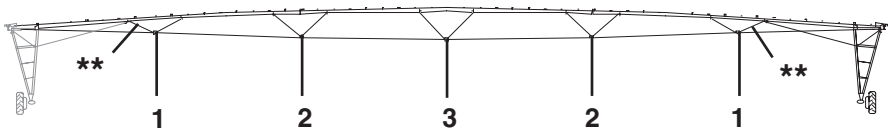
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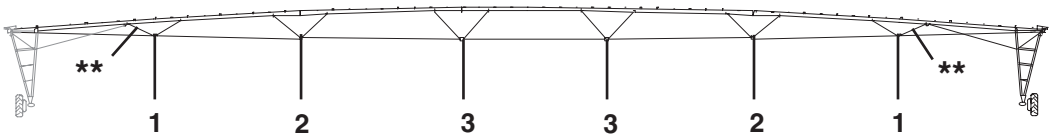
115' Span



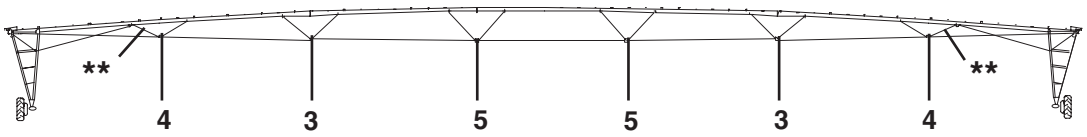
135' & 140' Span



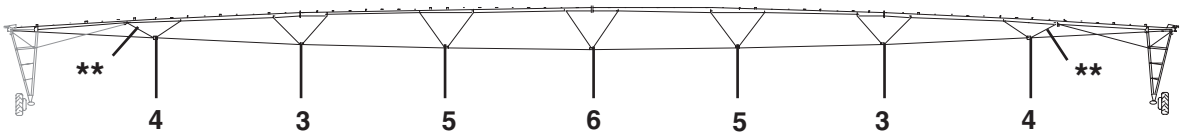
160' Span



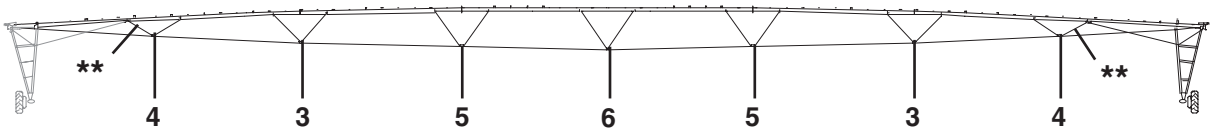
165' Freestanding Span Only



180' Span



185' & 187' Span

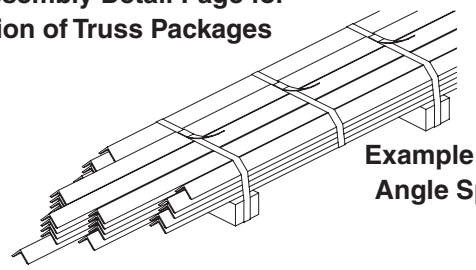


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

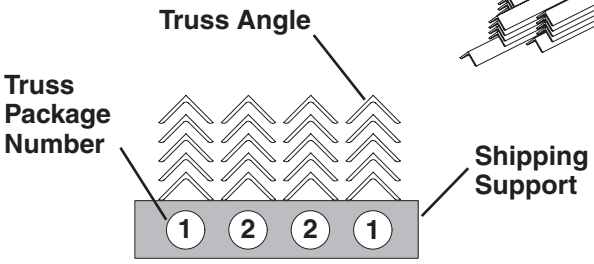
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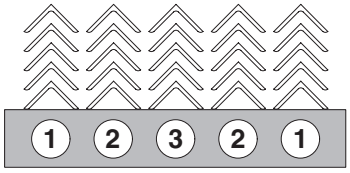
Reference Assembly Detail Page for Exact Location of Truss Packages



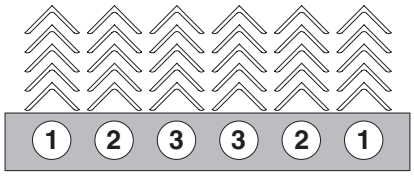
Example of 135' Truss Angle Span Packing



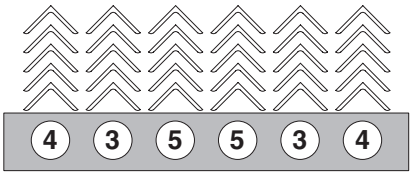
115' Truss Angle Span Pack (KA09116)



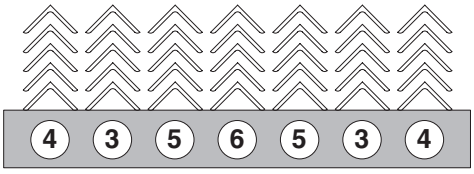
135' & 140' Truss Angle Span Pack (KA09023)



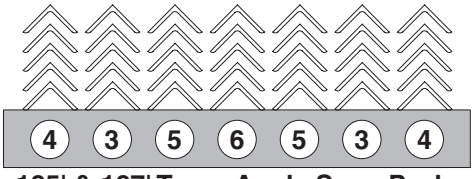
160' Truss Angle Span Pack (KA09024)



165' Truss Angle Span Pack (KA09050)



180' Truss Angle Span Pack (KA09025)



185' & 187' 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.

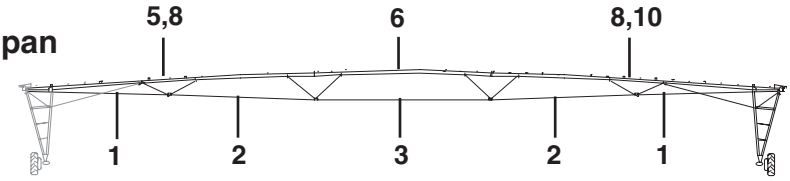
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
1	9360046**	58.42"	9360047	44.69"
	9360073	55.38"	-	-
2	9360048	72.97"	9360049	76.44"
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"

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

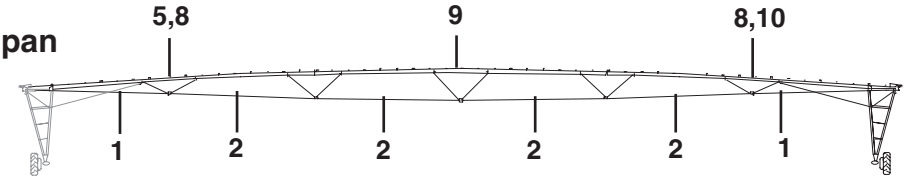
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MODEL 8000

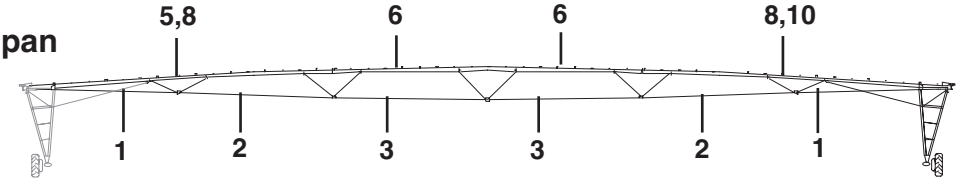
115' Span



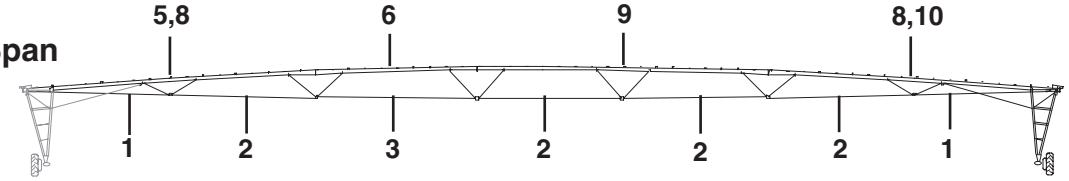
135' Span



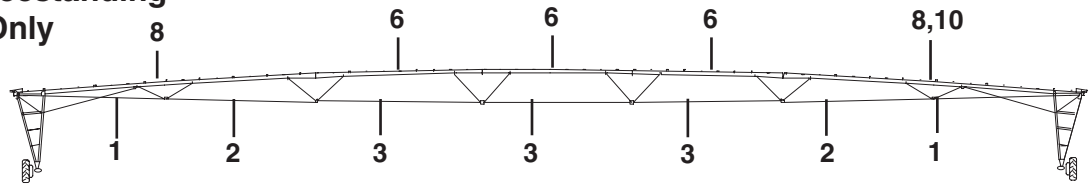
140' Span



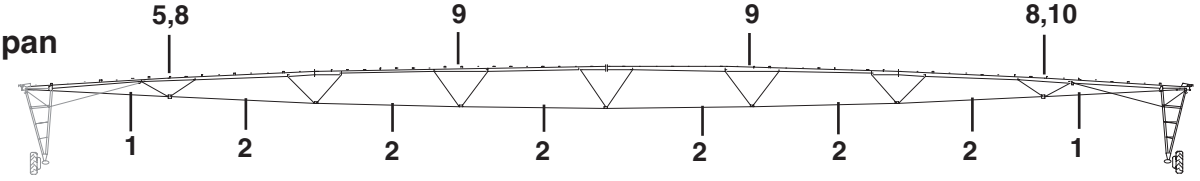
160' Span



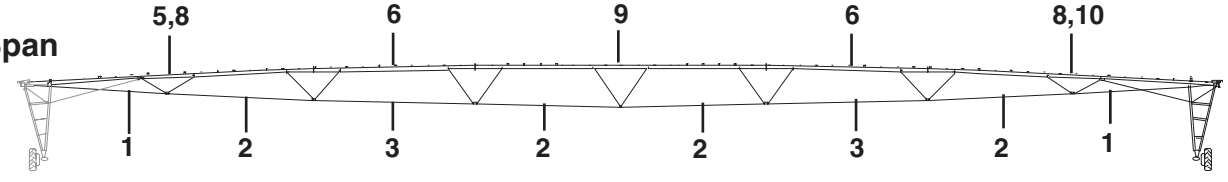
165' Freestanding Span Only



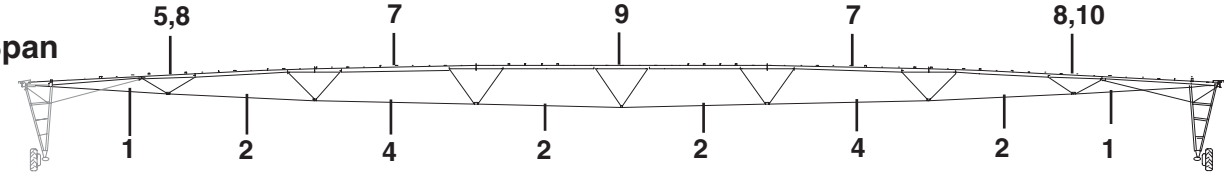
180' Span



185' Span

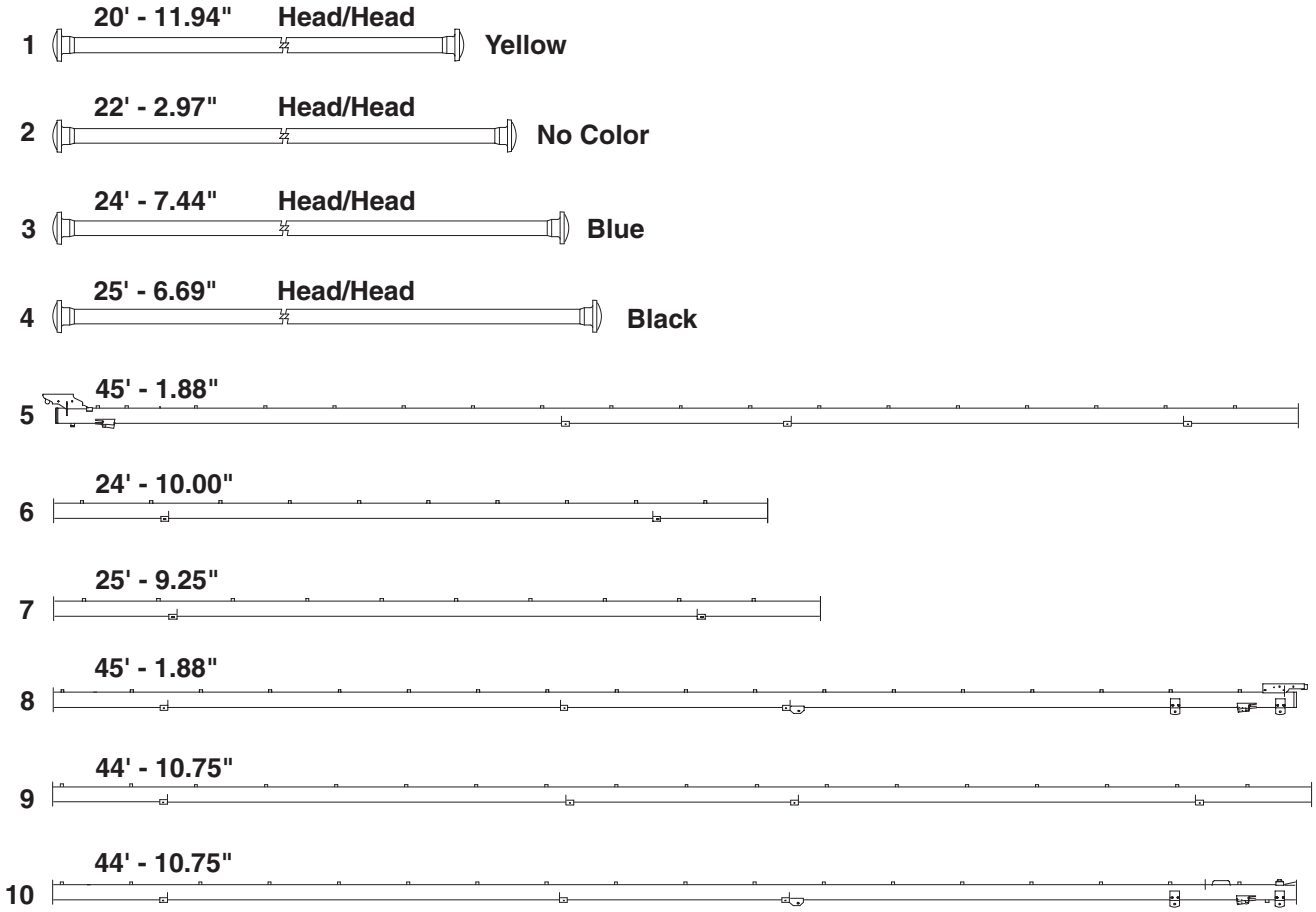


187' Span



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MODEL 8000



Item	Description	Part #	
		30"	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	3/4" Inter. Truss Rod (25'-6.69")	9360063	9360063
5	Swivel Pipe (45'-1.88")	9360022	9360012
6	25' Short Intermediate Pipe (24'-10.00")	9360018	9360004
7	26' Short Intermediate Pipe (25'-9.25")	9360019	-
8	Fixed Pipe (45'-1.88")	9360021	9360010
9	45' Standard Inter. Pipe (44'-10.75")	9360020	9360008
10	Last Pipe (44'-10.75")	9360024	9360016

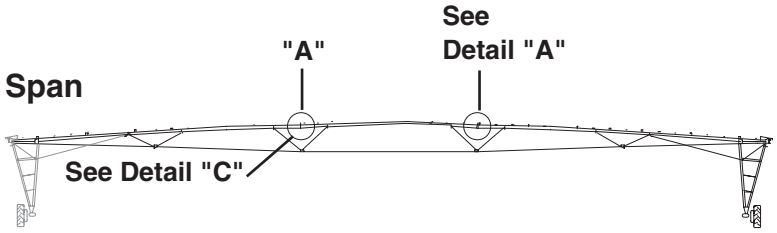
NOTE: Two (2) fixed pipes and drive units are required on all freestanding spans.

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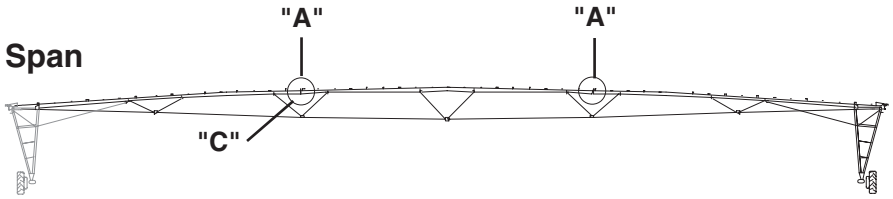
Functional Area	Assembly / Part	Rev# 01-97
6-5/8" Pipe - 30" & 108" Spacing	Sprinkler Coupling Locations	

MODEL 8000

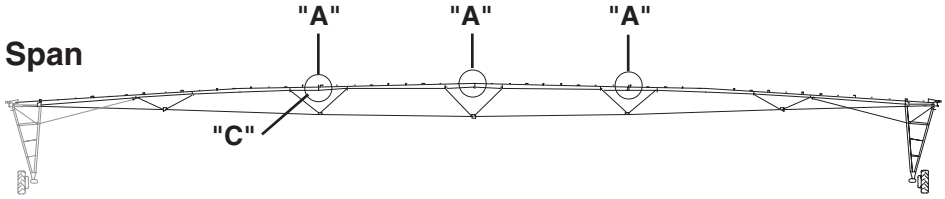
115' Span



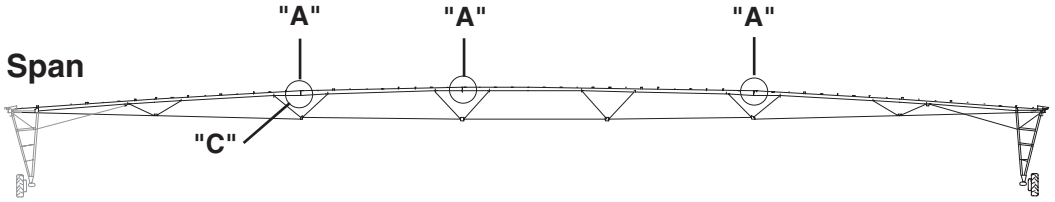
135' Span



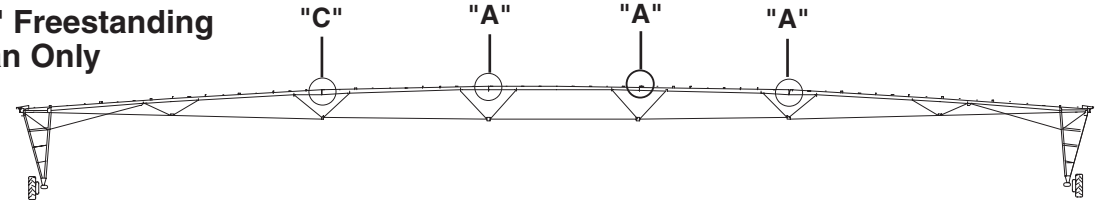
140' Span



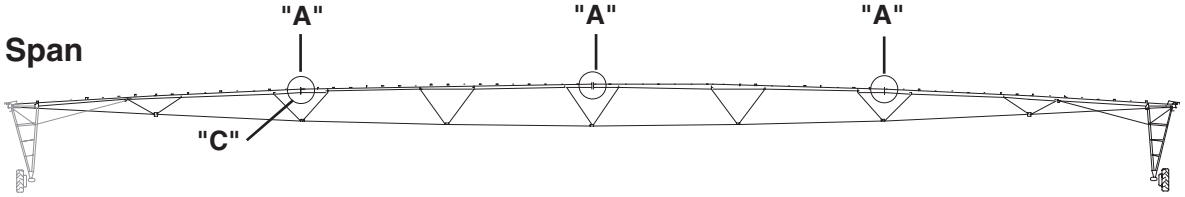
160' Span



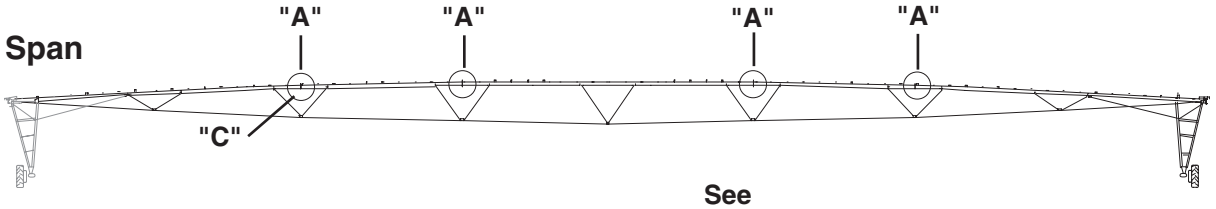
165' Freestanding Span Only



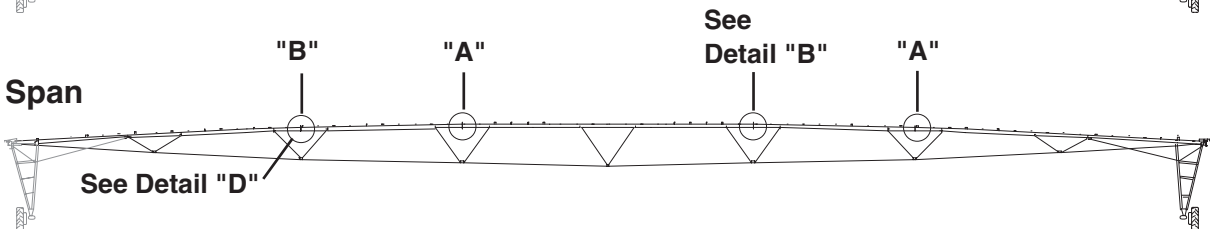
180' Span



185' Span



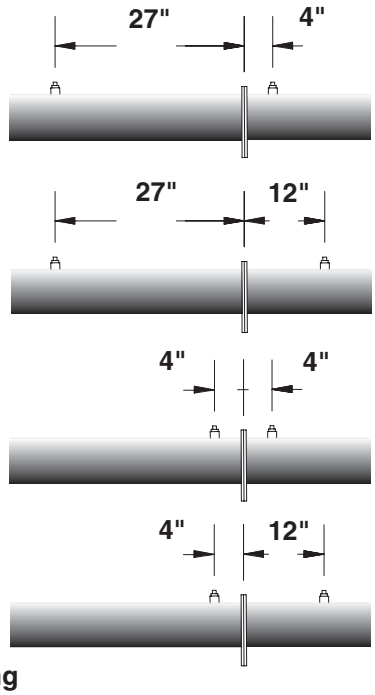
187' Span



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MODEL 8000

30" Spacing Details



Detail "A"

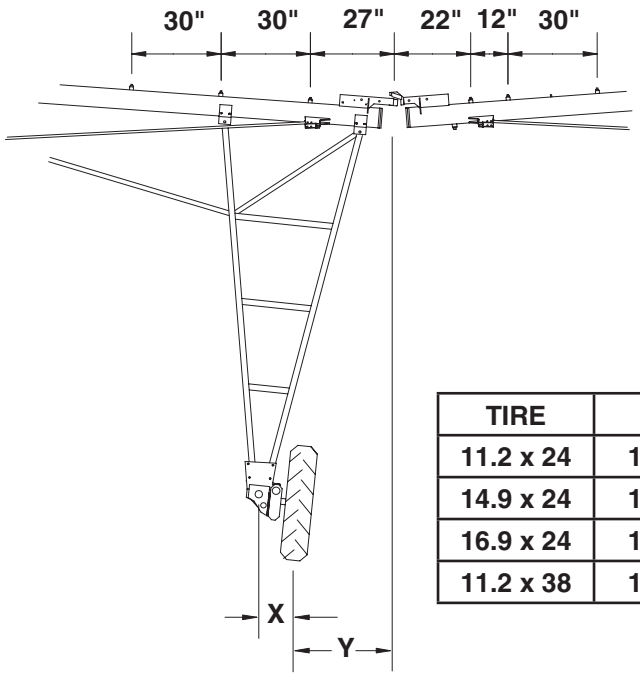
Detail "B"

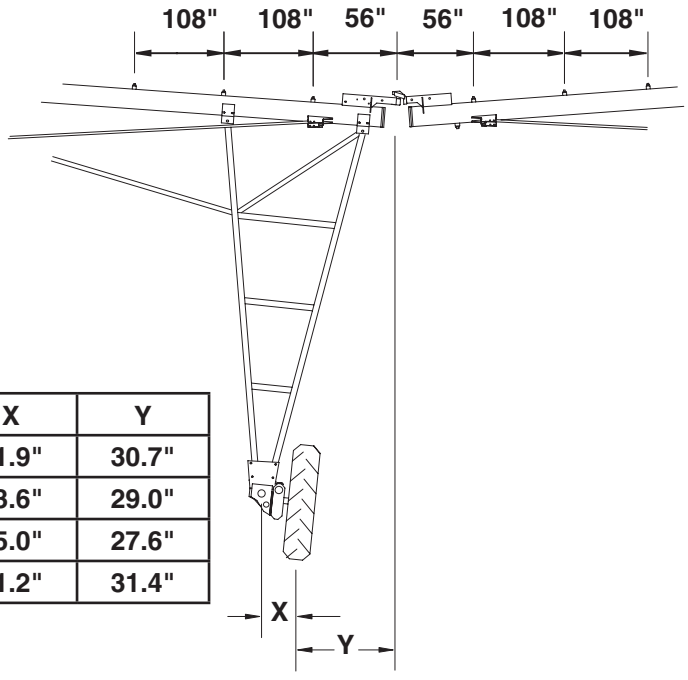
Detail "C"
Freestanding Span Only

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.



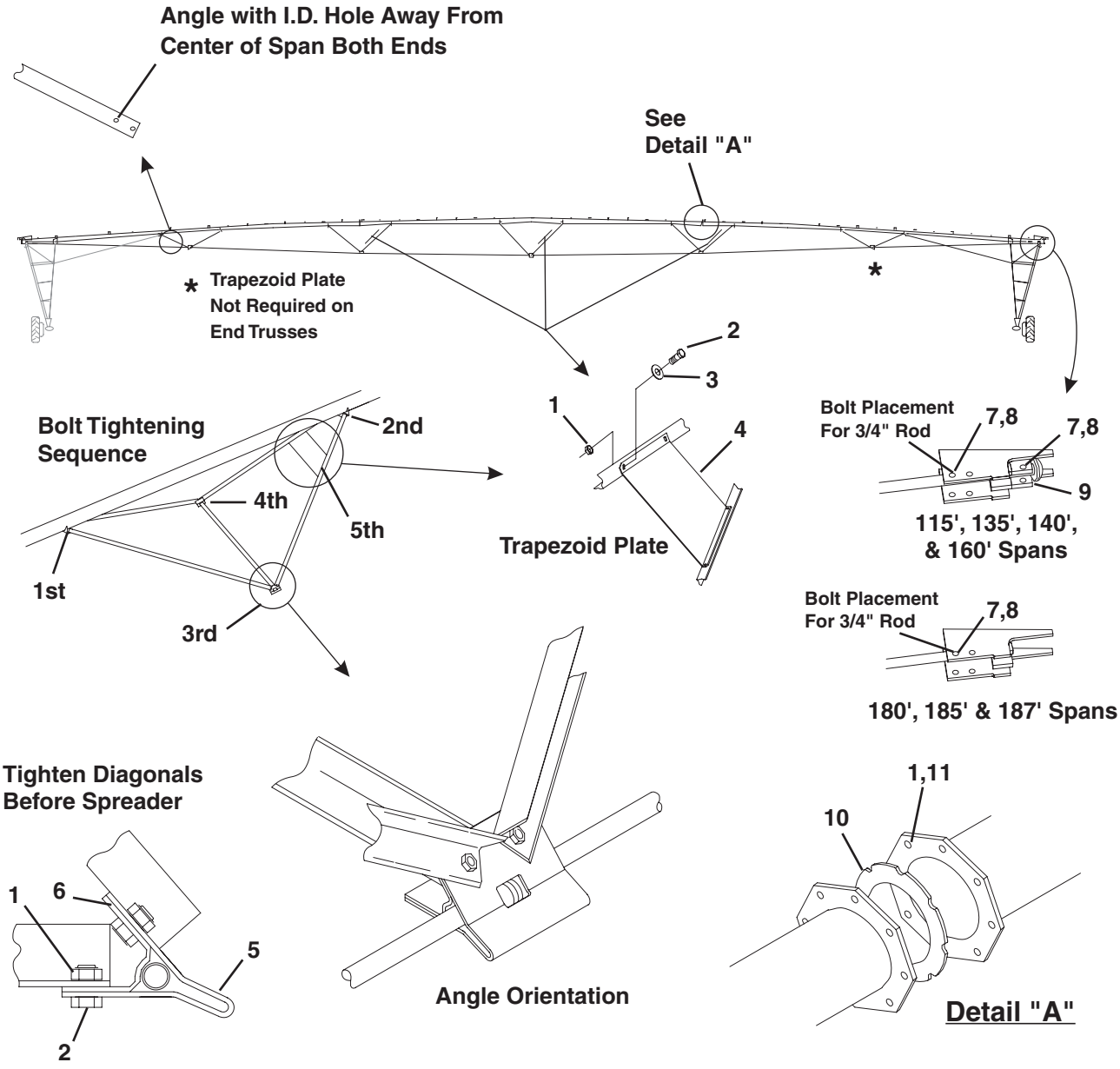


TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

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

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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	Truss Rod Spacer	9360080
10	6-5/8" Gasket	0991107
11	1/2" x 2" Cap Screw	0161024

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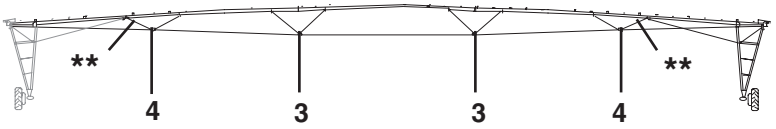
ADD & FREESTANDING SPANS
8-5/8" PIPE
30" & 108" COUPLER SPACING



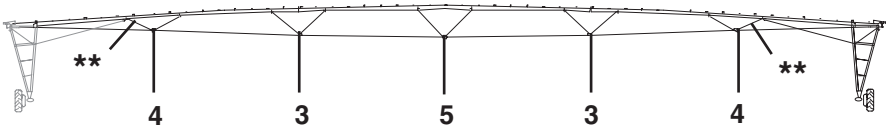
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MODEL 8000

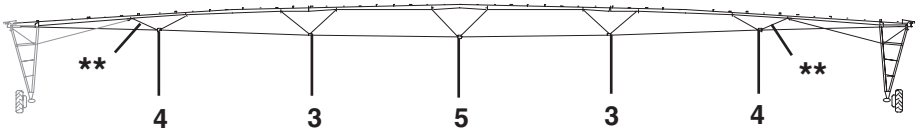
115' Span



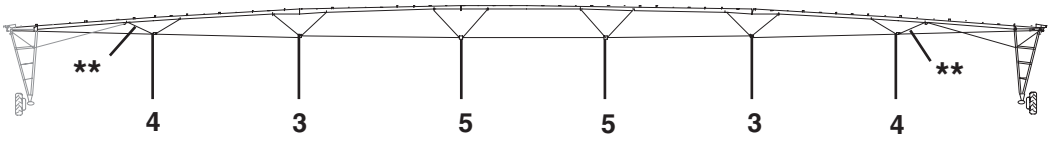
135' Span



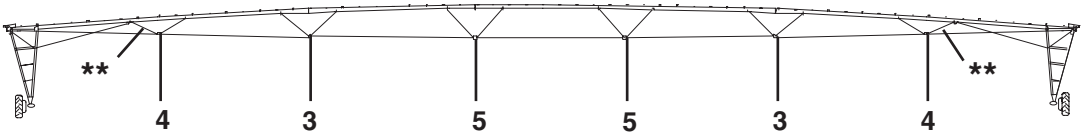
140' Span



160' Span



165' Freestanding Span Only

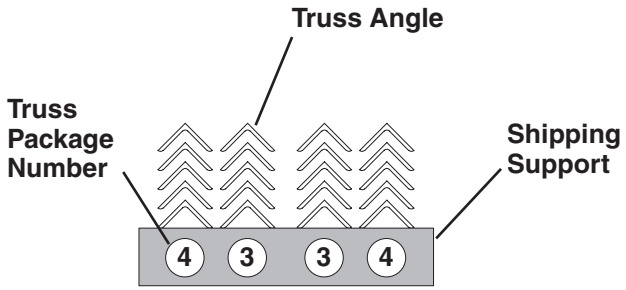


** **NOTE: This is the location of the longer diagonal with the I.D. hole.**

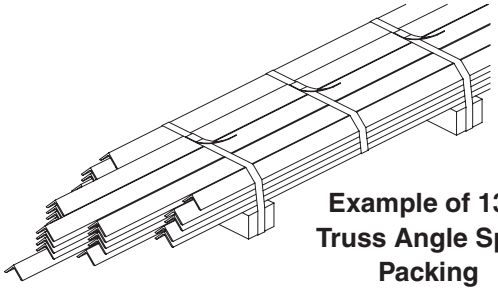
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MODEL 8000

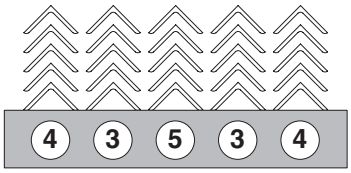
Reference Assembly Detail Page for Exact Location of Truss Packages



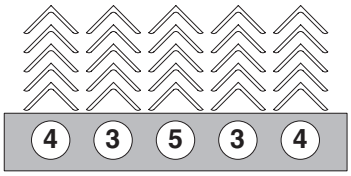
115' Truss Angle Span Pack (KA09117)



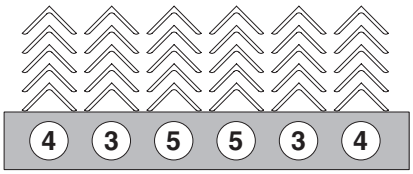
Example of 135' Truss Angle Span Packing



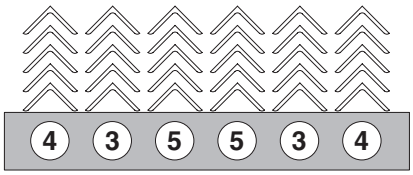
135' Truss Angle Span Pack (KA09047)



140' Truss Angle Span Pack (KA09047)



160' Truss Angle Span Pack (KA09050)



165' Truss Angle Span Pack (KA09050)

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

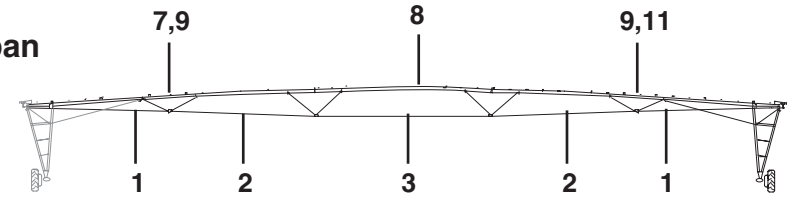
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"

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

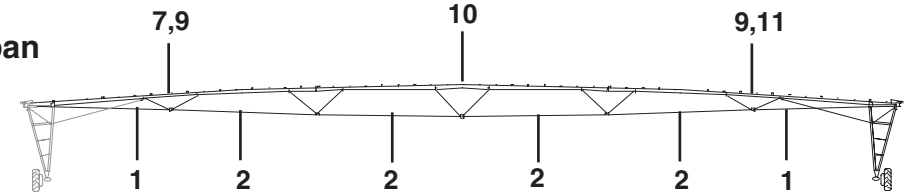
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MODEL 8000

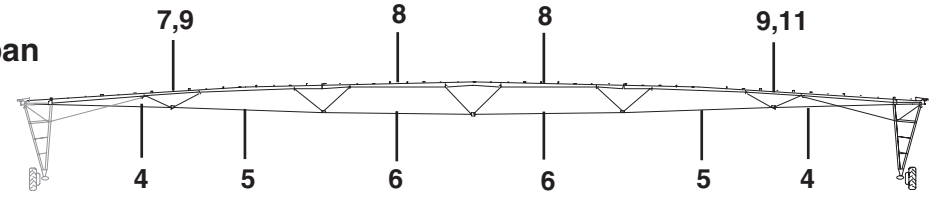
115' Span



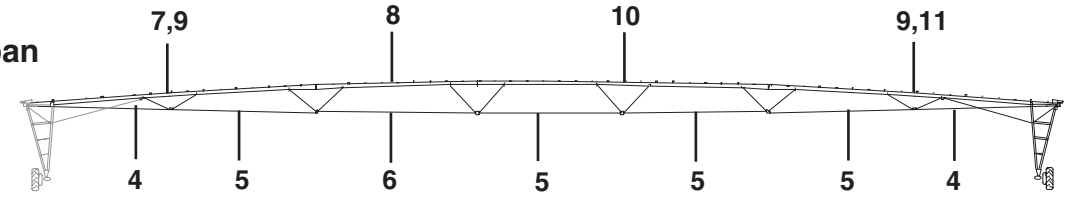
135' Span



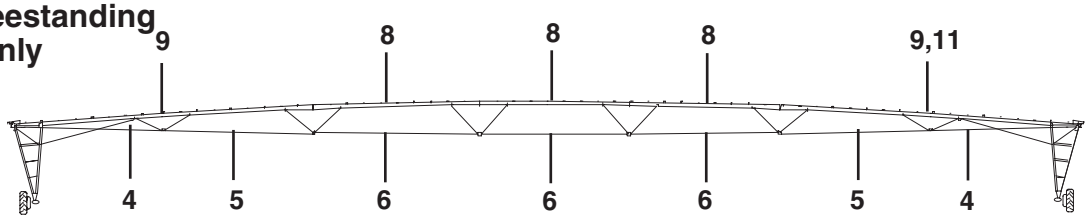
140' Span



160' Span

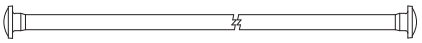


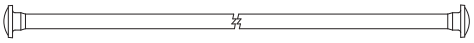
165' Freestanding Span Only

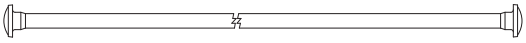


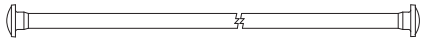
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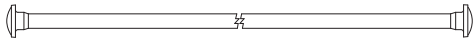
MODEL 8000

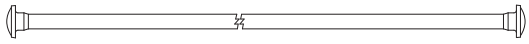
1 **20' - 11.94" Head/Head**  **Yellow**

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

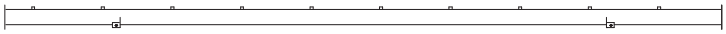
3 **24' - 7.44" Head/Head**  **Blue**

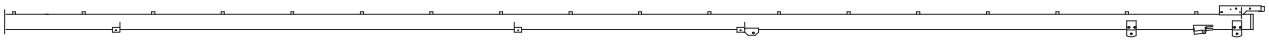
4 **21' - 6.69" Head/Head**  **Orange**

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

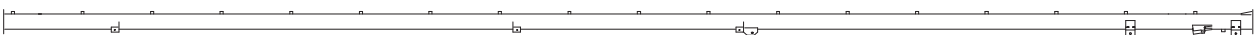
6 **24' - 7.12" Head/Head**  **Green**

7 **45' - 1.88"** 

8 **24'-10.00"** 

9 **45' - 1.88"** 

10 **44' - 10.75"** 

11 **44' - 10.75"** 

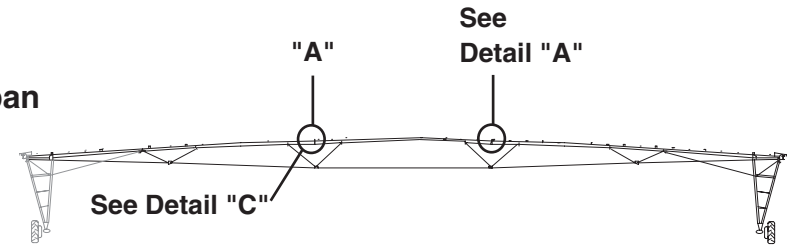
Item	Description	Part # 30"	Part # 108"
1	3/4" Tower Truss Rod (20'-11.94")	9360060	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061	9360061
3	3/4" Intermediate Truss Rod (24'-7.44")	9360062	9360062
4	13/16" Tower Truss Rod (21'-0")	9360064	9360064
5	13/16" Std. Inter. Truss Rod (22'-3.19")	9360065	9360065
6	13/16" Intermediate Truss Rod (24'-7.12")	9360066	9360066
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.

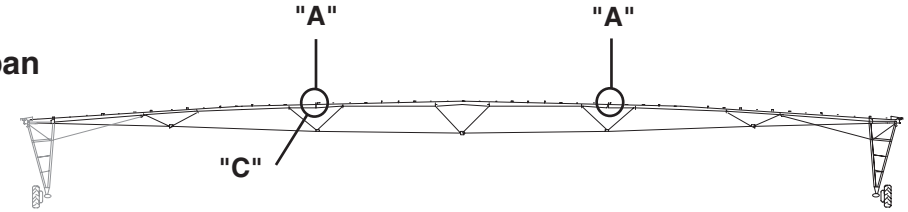
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MODEL 8000

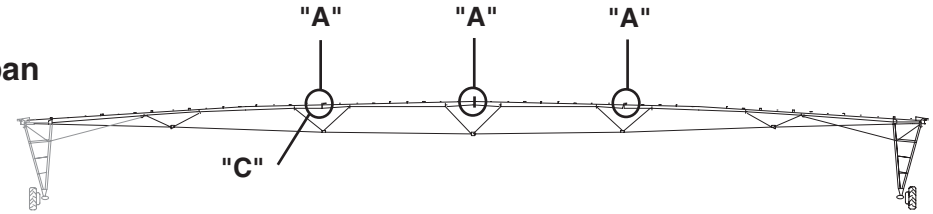
115' Span



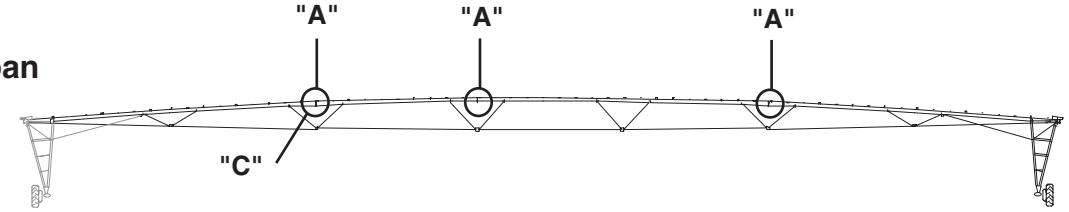
135' Span



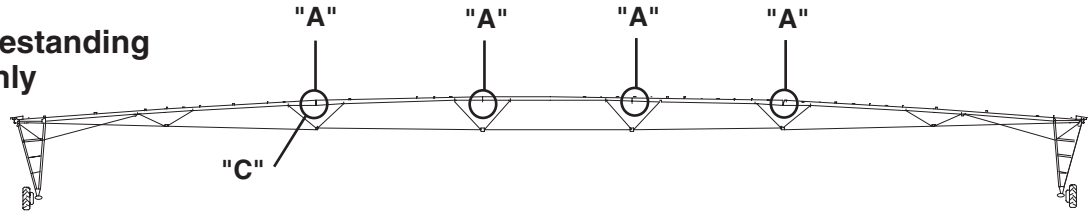
140' Span



160' Span



165' Freestanding Span Only

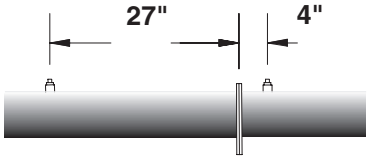


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MODEL 8000

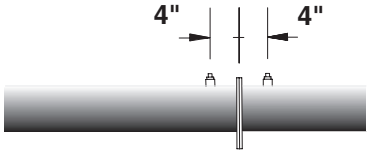
30" Spacing Details

Detail "A"



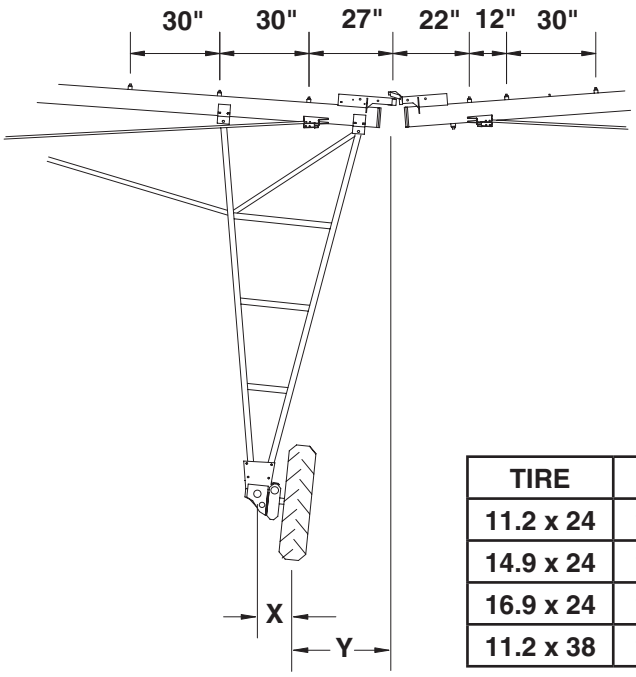
Detail "C"

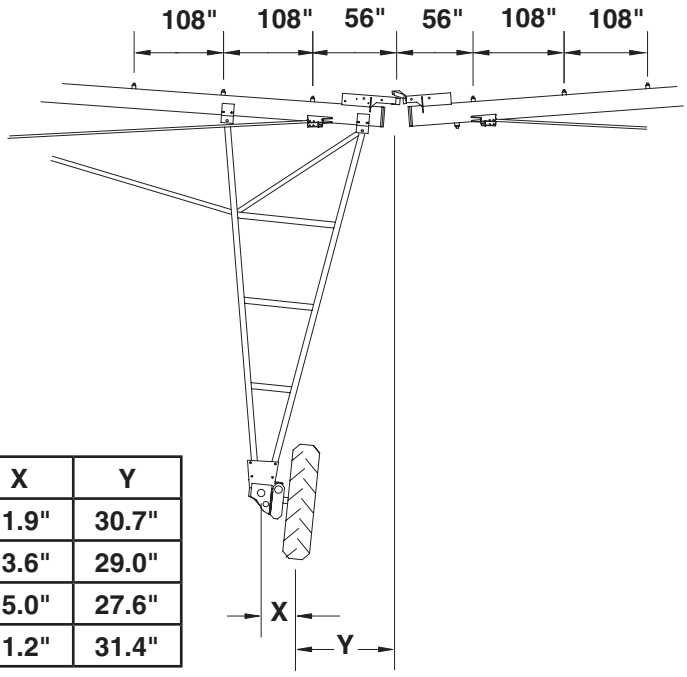
Freestanding Span Only



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.



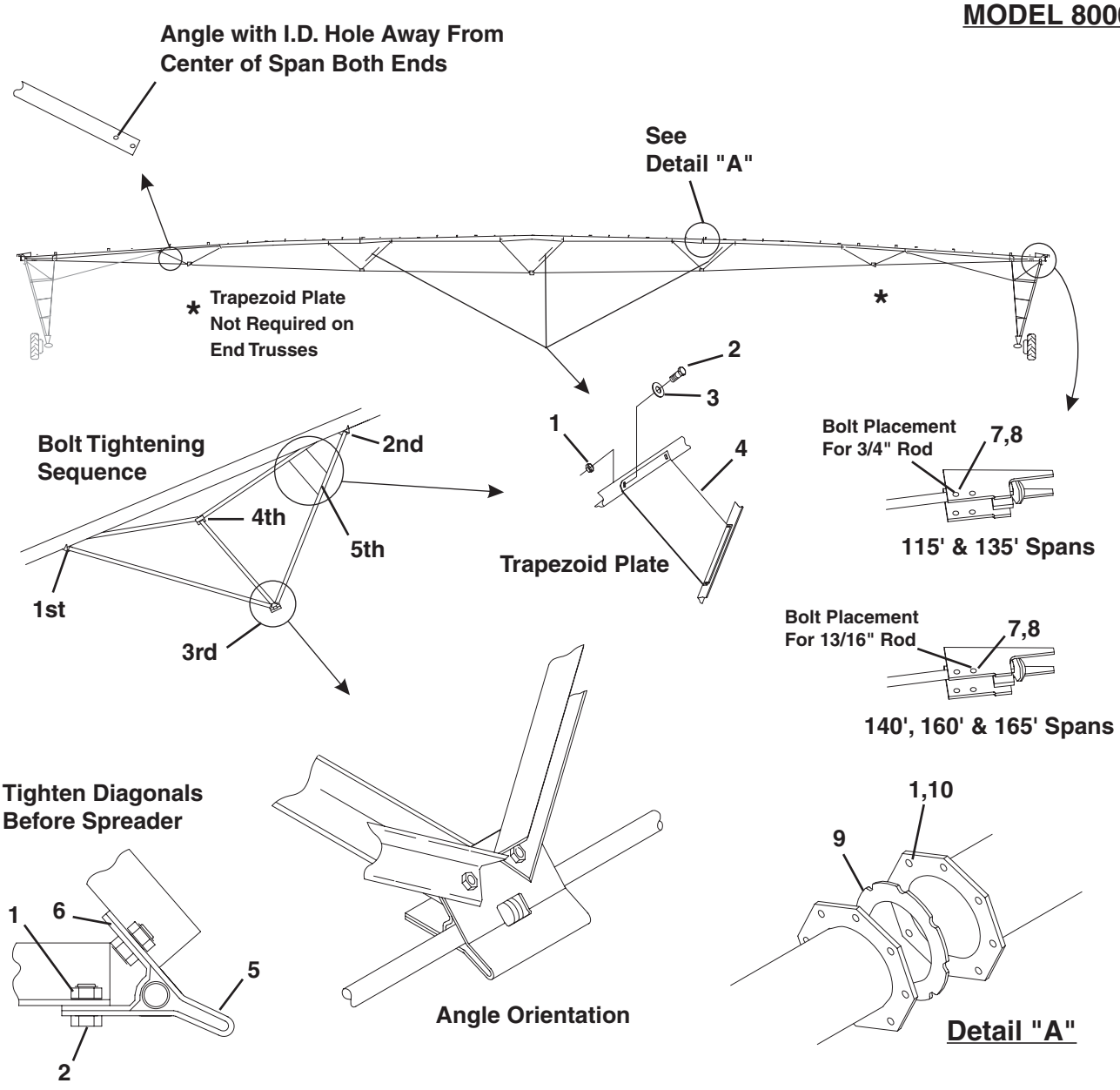


TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

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



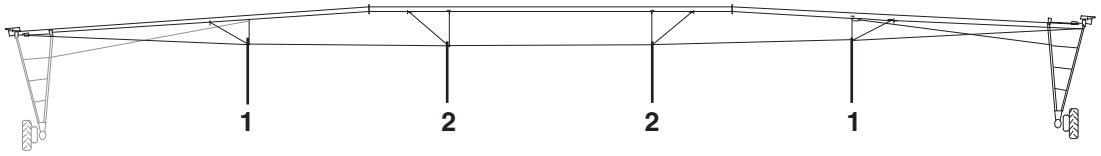
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MODEL 8000

109' Span



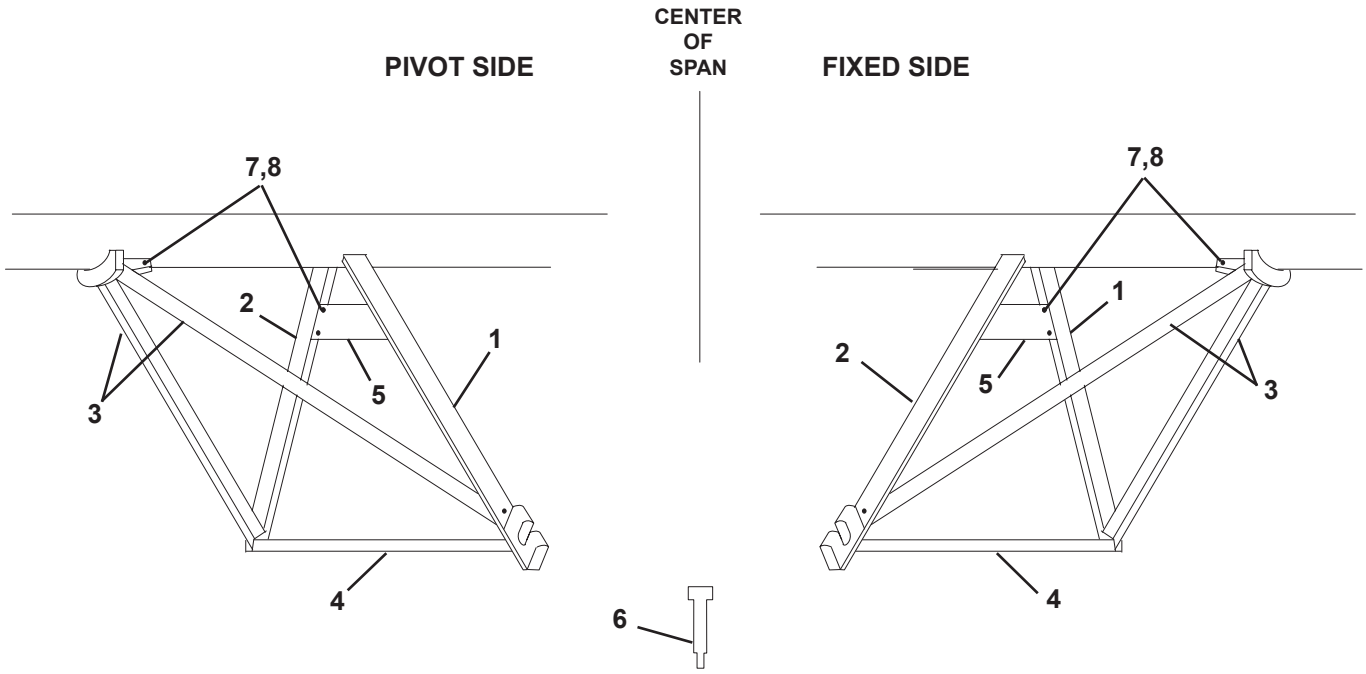
128' Span



Item #	Truss Pkg. #
1	KA00701
2	KA00702

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MODEL 8000



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"

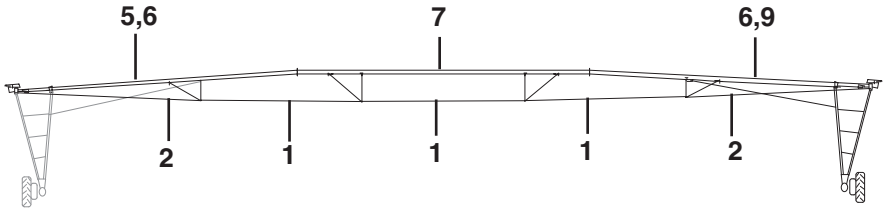
NOTE: All angle dimensions are overall length (end to end).

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

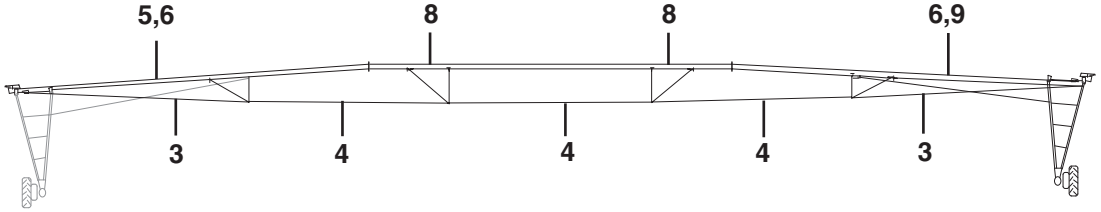
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MODEL 8000

109' Span



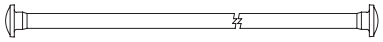
128' Span



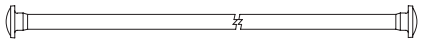
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MODEL 8000

1 **20' - 2.25" Head/Head**



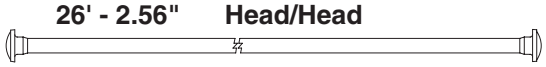
2 **22' - 6.31" Head/Head**



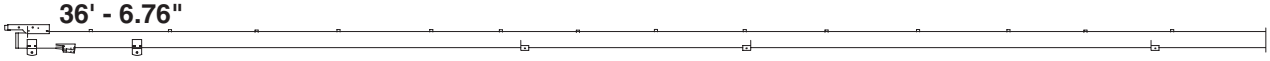
3 **22' - 6.31" Head/Head**



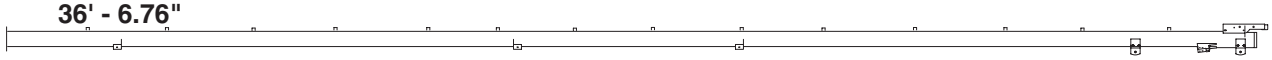
4 **26' - 2.56" Head/Head**



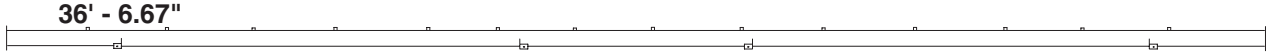
5 **36' - 6.76"**



6 **36' - 6.76"**



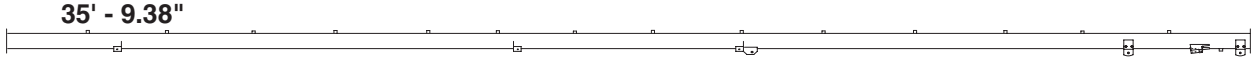
7 **36' - 6.67"**



8 **27' - 3.44"**



9 **35' - 9.38"**



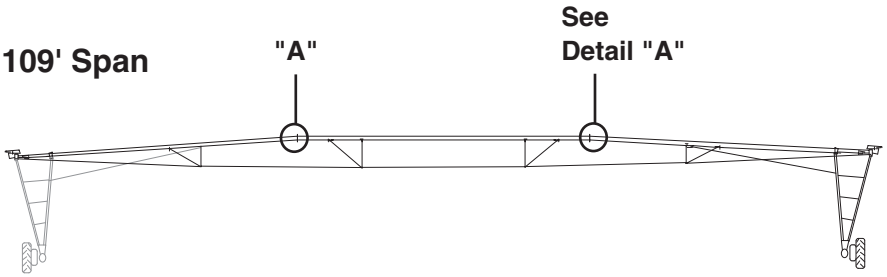
Item	Description	Part #
1	3/4" Intermediate Truss Rod (20'-2.25")	1780434
2	3/4" Tower Truss Rod (22'-6.31")	1780378
3	7/8" Tower Truss Rod (22'-6.31")	1780574
4	7/8" Intermediate Truss Rod (26'-2.56")	1780578
5	Swivel Pipe (36'-6.76")	1781558
6	Fixed Pipe (36'-6.76")	1781559
7	Standard Inter. Pipe (36'-6.67")	1781561
8	Standard Inter. Pipe (27'-3.44")	1781562
9	Transition/Inlet Pipe (35'-9.38")	1781560

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

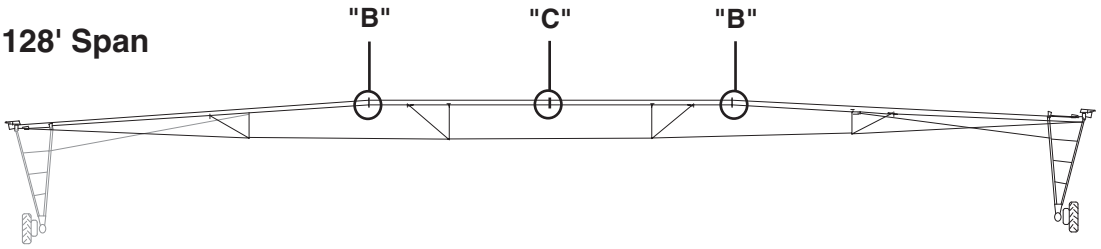
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MODEL 8000

109' Span



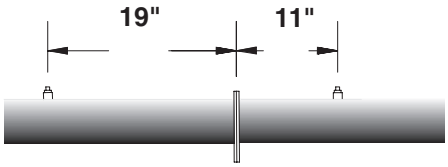
128' Span



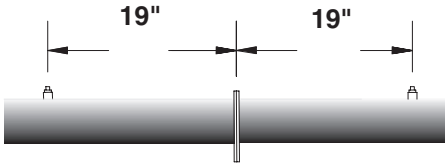
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MODEL 8000

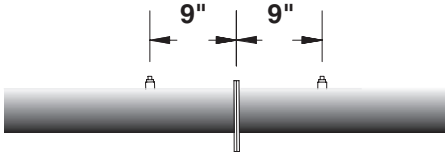
Detail "A"

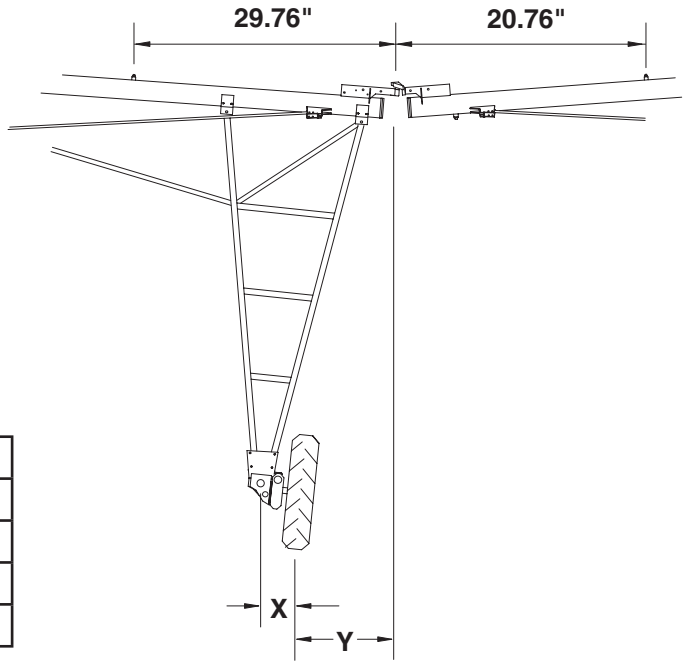


Detail "B"



Detail "C"



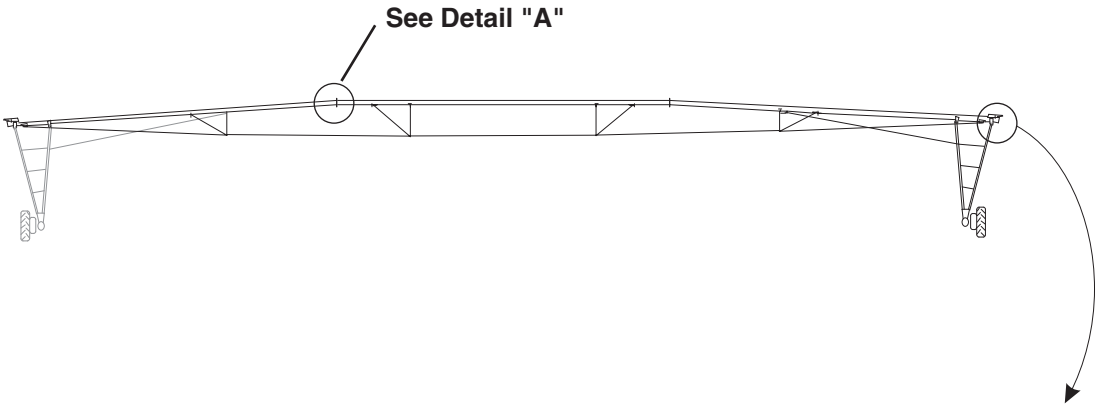


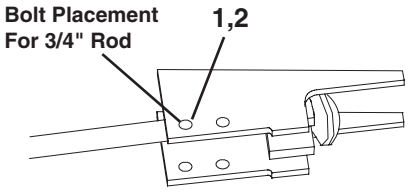
TIRE	X	Y
11.2 x 24	12.4"	30.9"
14.9 x 24	14.1"	29.2"
16.9 x 24	15.5"	27.8"
11.2 x 38	11.8"	31.5"

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

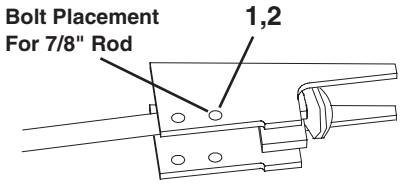
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MODEL 8000

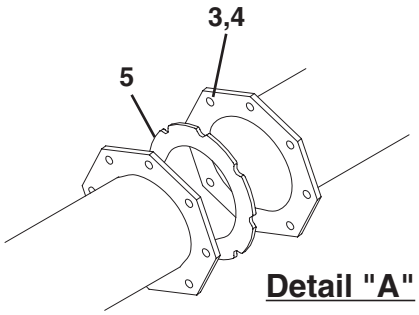




109' Spans



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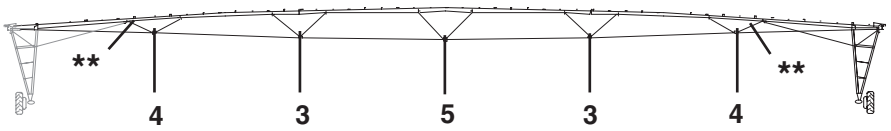
ADD & FREESTANDING SPANS
EXPORT 6-5/8" PIPE
90" COUPLER SPACING



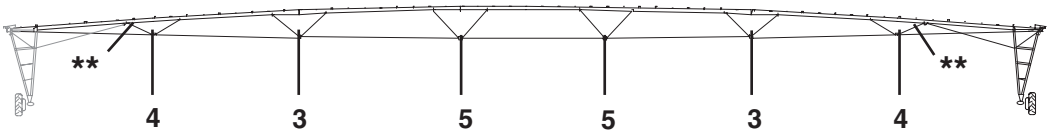
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MODEL 8000

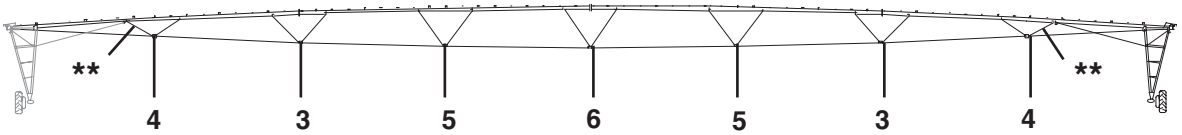
135' Span



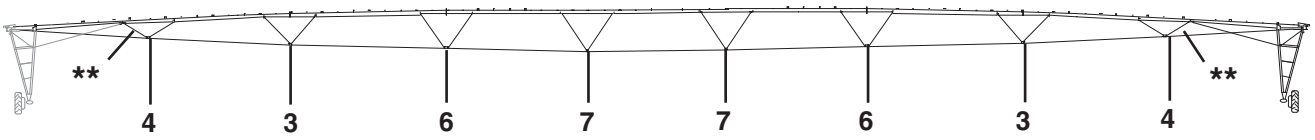
157.5' Span



180' Span



202.5' Span

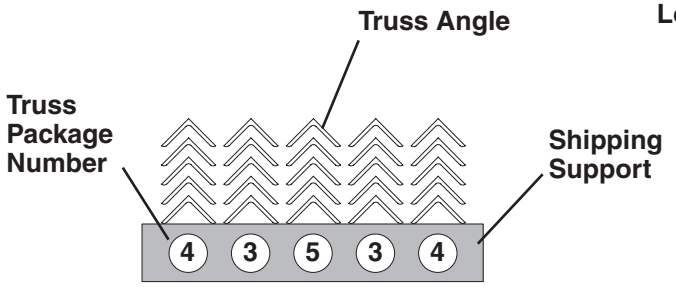


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

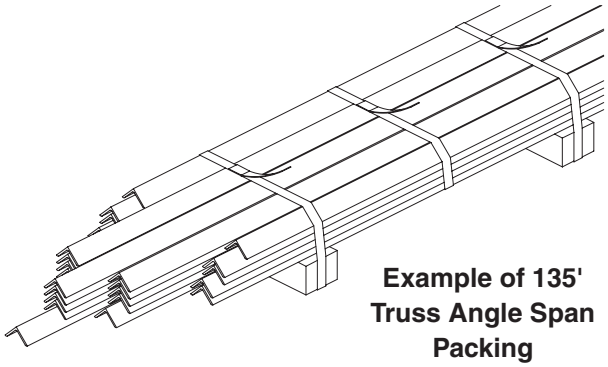
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MODEL 8000

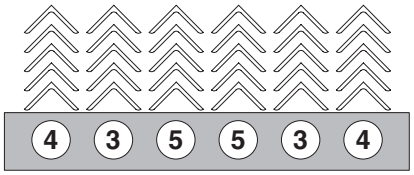
Reference Assembly Detail Page for Exact Location of Truss Packages



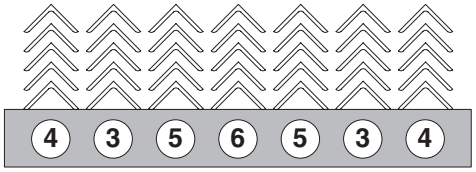
135' Truss Angle Span Pack (KA09047)



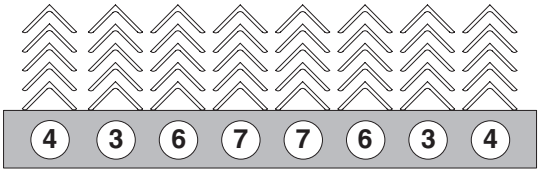
Example of 135' Truss Angle Span Packing



157.5' Truss Angle Span Pack (KA09050)



180' Truss Angle Span Pack (KA09025)



185' & 187' 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.

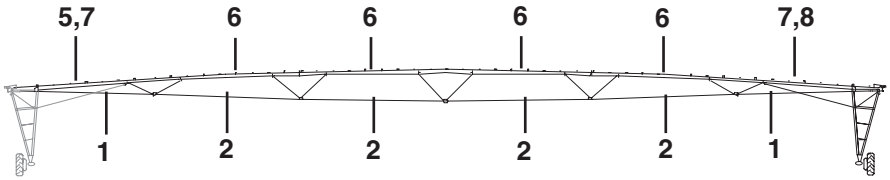
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"
6	9360056	102.56"	9360057	122.94"
7	9360058	112.09"	9360059	136.84"

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

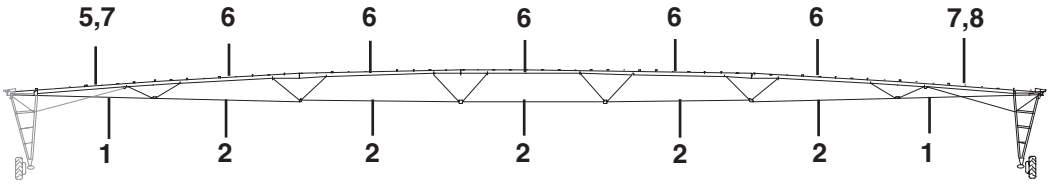
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MODEL 8000

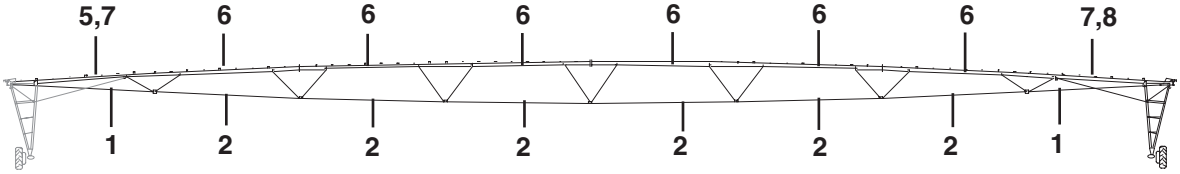
135' Span



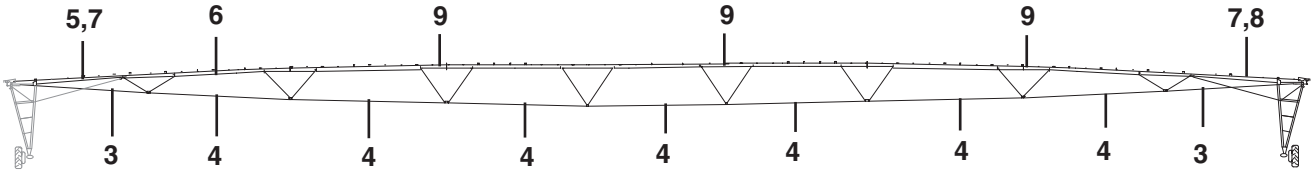
157.5' Span



180' Span



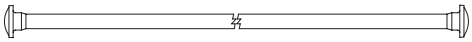
202.5' Span

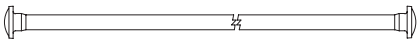


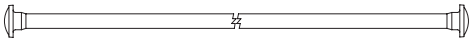
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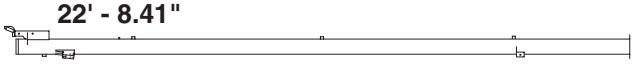
MODEL 8000

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

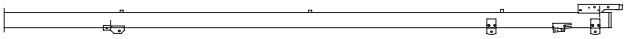
2 **22' - 2.97" Head/Head**  **No Color**

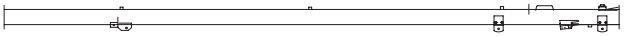
3 **21' - 0.00" Head/Head**  **Orange**

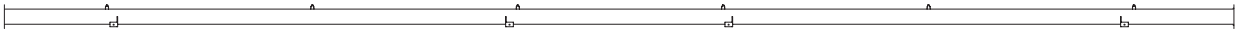
4 **22' -3.19" Head/Head**  **Red**

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

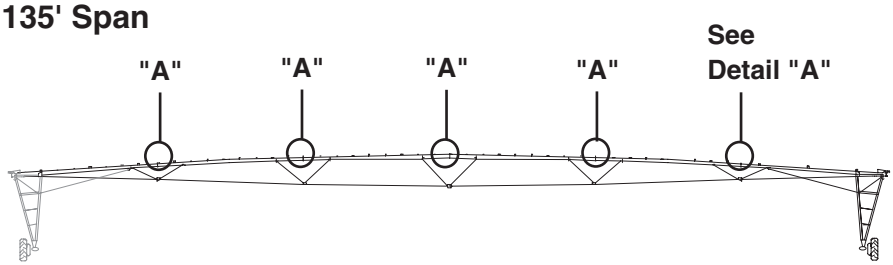
NOTE: Two (2) fixed pipes and drive units are required on all freestanding spans.

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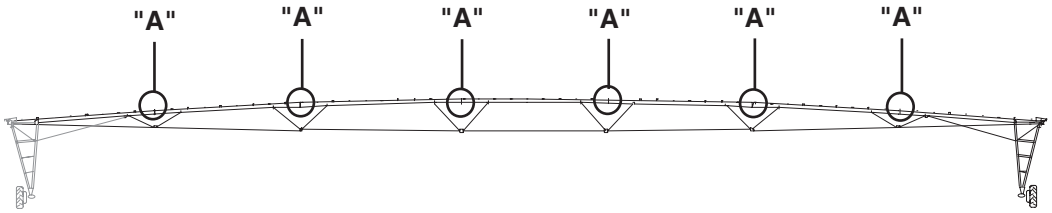
Functional Area	Assembly / Part	Rev# 01-97
6-5/8" Export Pipe - 90" Spacing	Sprinkler Coupling Locations	

MODEL 8000

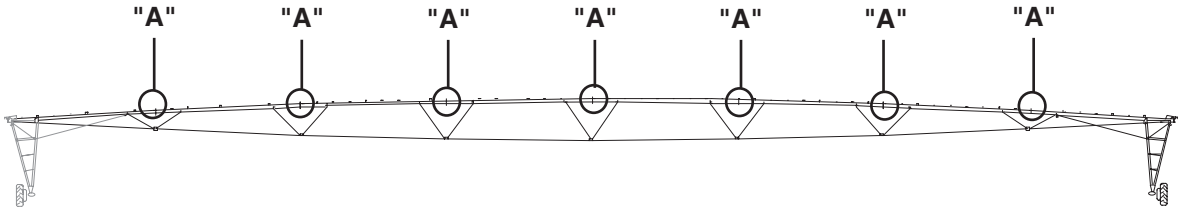
135' Span



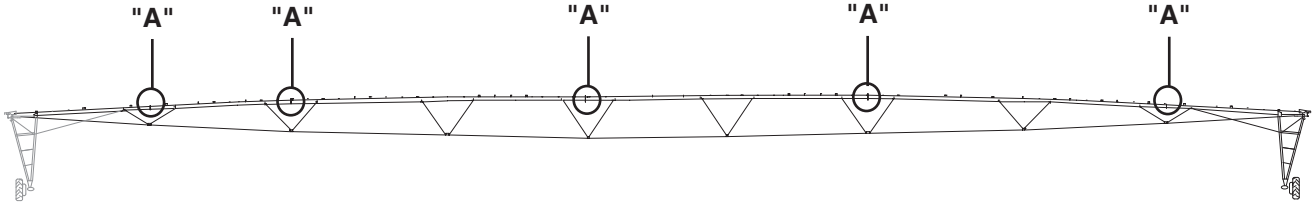
157.5' Span



180' Span



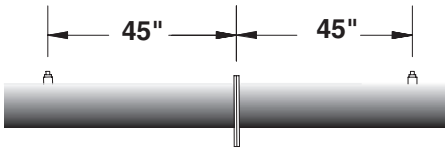
202.5' Span

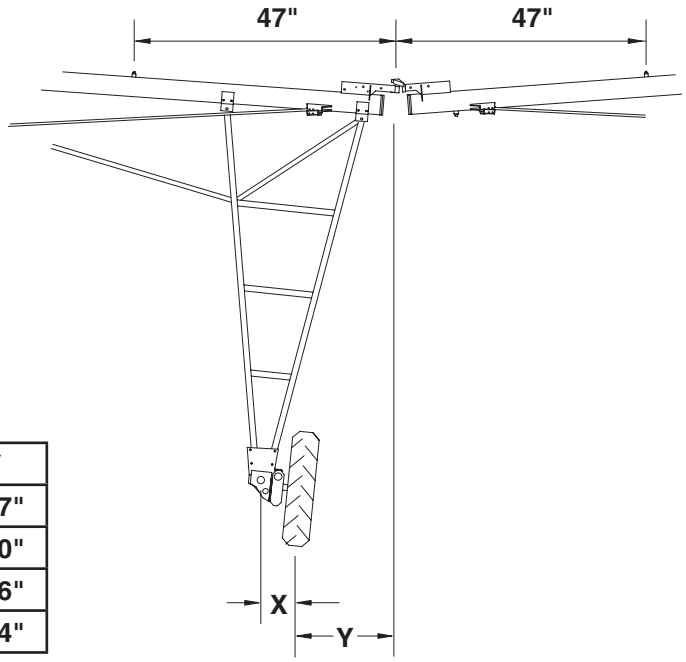


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MODEL 8000

Detail "A"



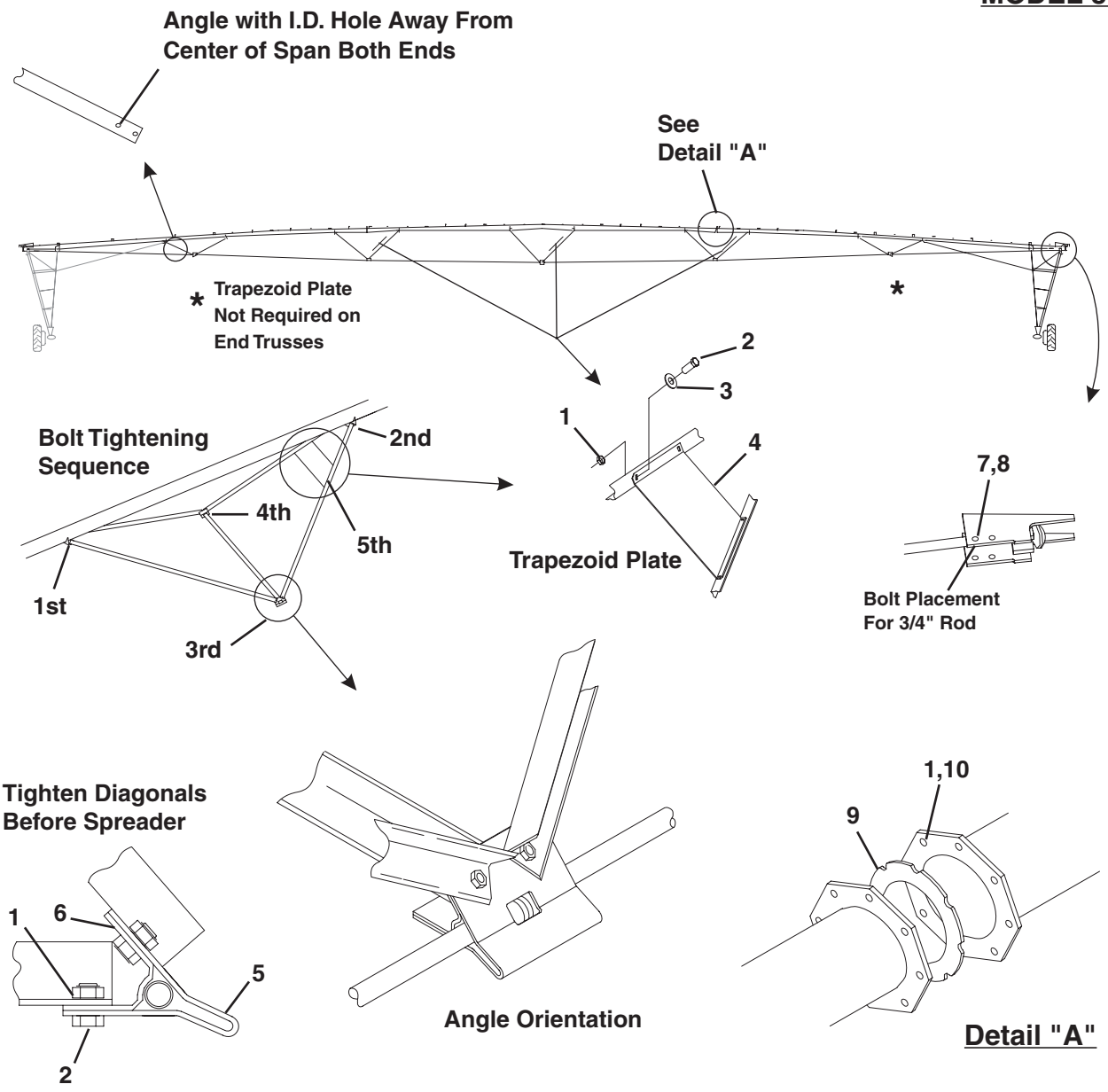


TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

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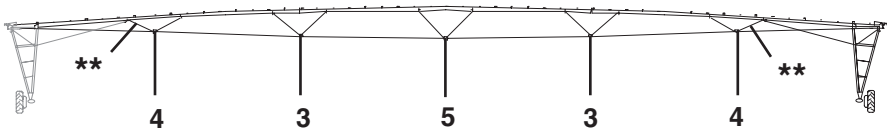
ADD & FREESTANDING SPANS
EXPORT 8-5/8" PIPE
90" COUPLER SPACING



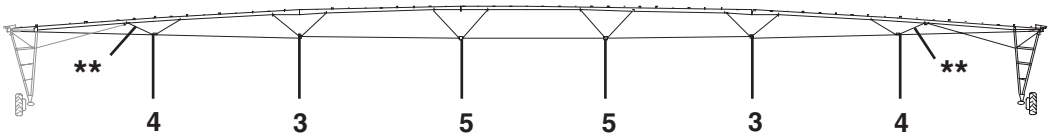
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MODEL 8000

135' Span



157.5' Span

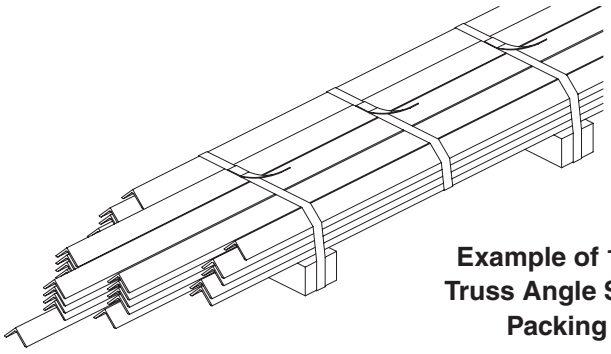


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

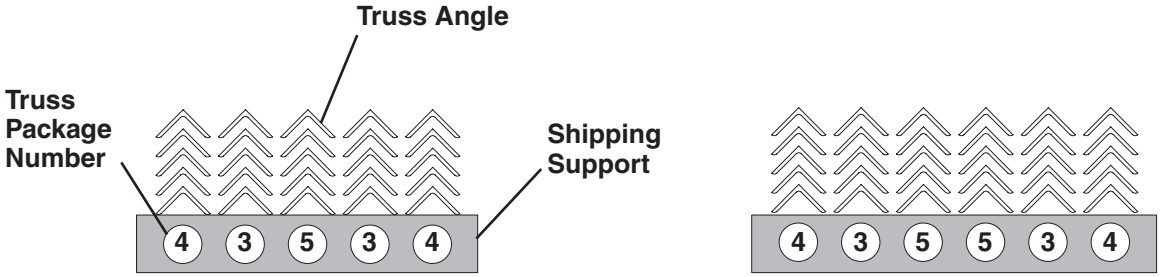
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MODEL 8000

Reference Assembly Detail Page for Exact Location of Truss Packages



Example of 135' Truss Angle Span Packing



135' Truss Angle Span Pack (KA09047)

157.5' Truss Angle Span Pack (KA09050)

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

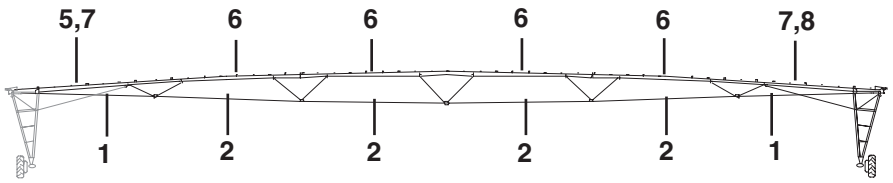
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78"	9360051	92.69"
4	9360052**	61.68"	9360053	52.25"
	9360074	58.81"	-	-
5	9360054	97.25"	9360055	115.03"

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

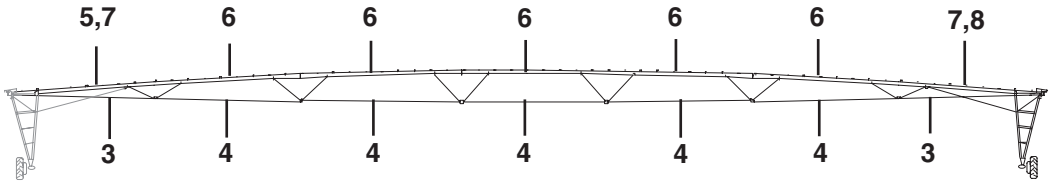
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MODEL 8000

135' Span

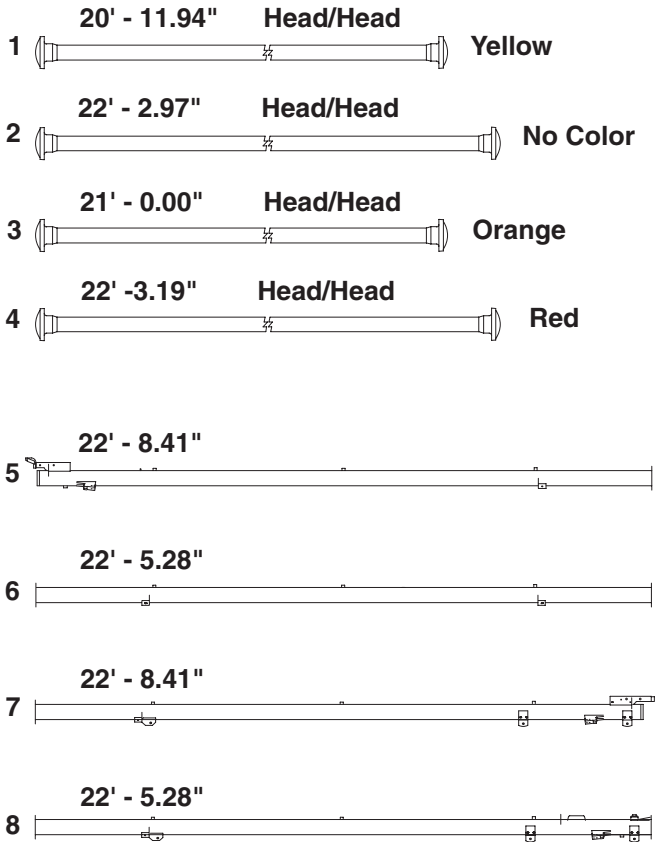


157.5' Span



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MODEL 8000



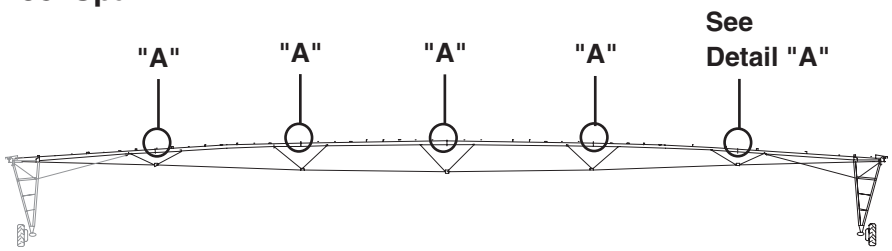
Item	Description	Part #
1	3/4" Tower Truss Rod (20'-11.94")	9360060
2	3/4" Standard Inter. Truss Rod (22'-2.97")	9360061
3	13/16" Tower Truss Rod (21'-0")	9360064
4	13/16" Standard Inter. Truss Rod (22'-3.19")	9360065
5	Swivel Pipe (22'-8.41")	9360098
6	22-1/2' Std. Intermediate Pipe (22'-5.28")	9360094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

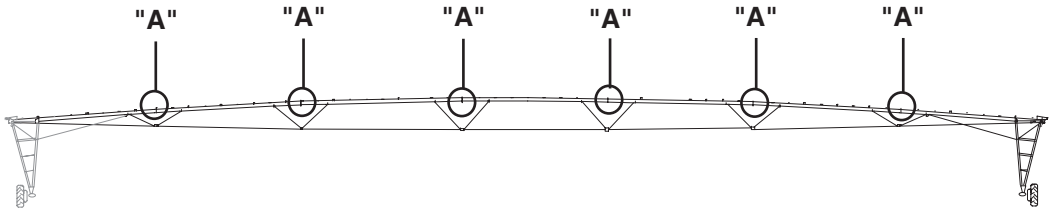
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MODEL 8000

135' Span



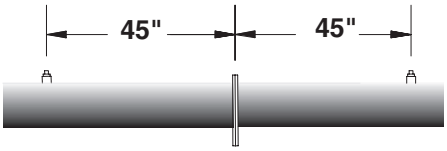
157.5' Span

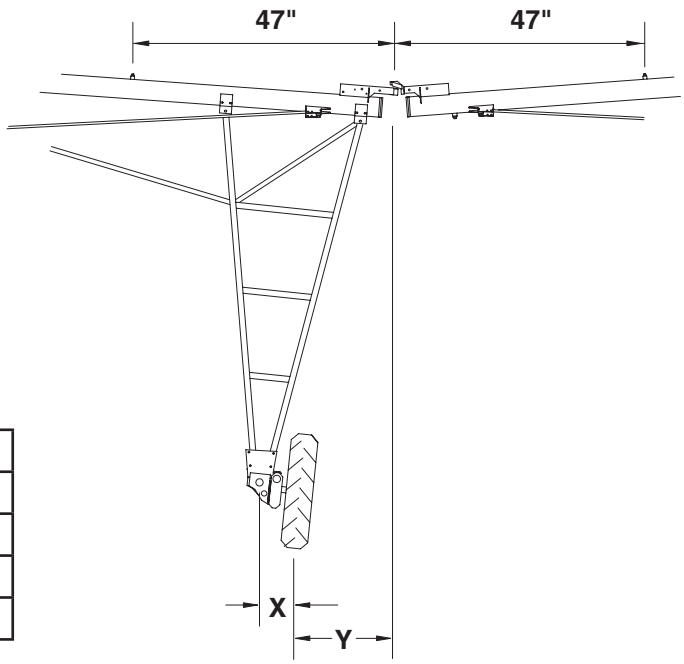


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Detail "A"



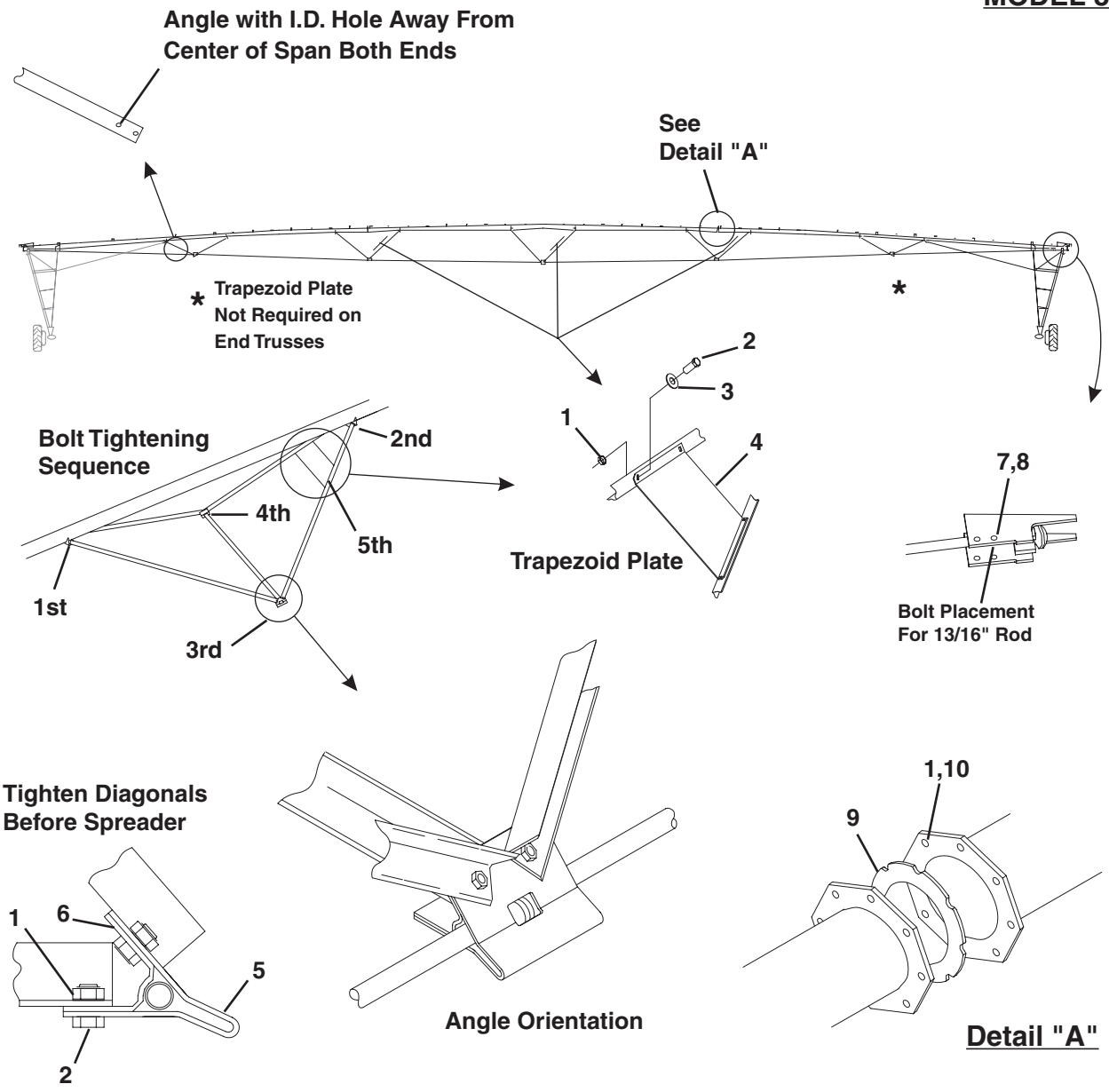


TIRE	X	Y
11.2 x 24	11.9"	30.7"
14.9 x 24	13.6"	29.0"
16.9 x 24	15.0"	27.6"
11.2 x 38	11.2"	31.4"

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

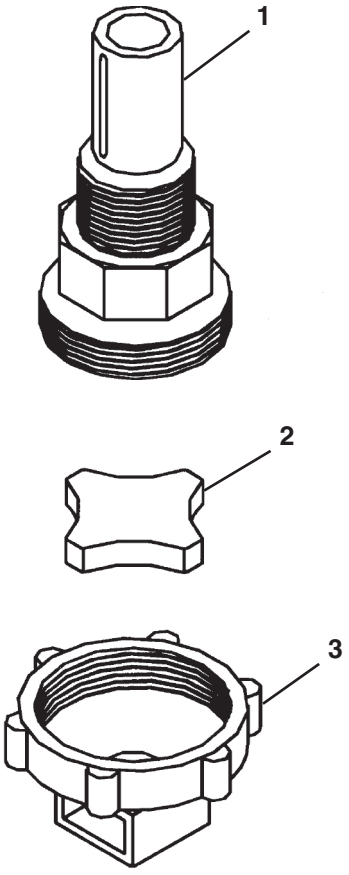
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PIPELINE ACCESSORIES



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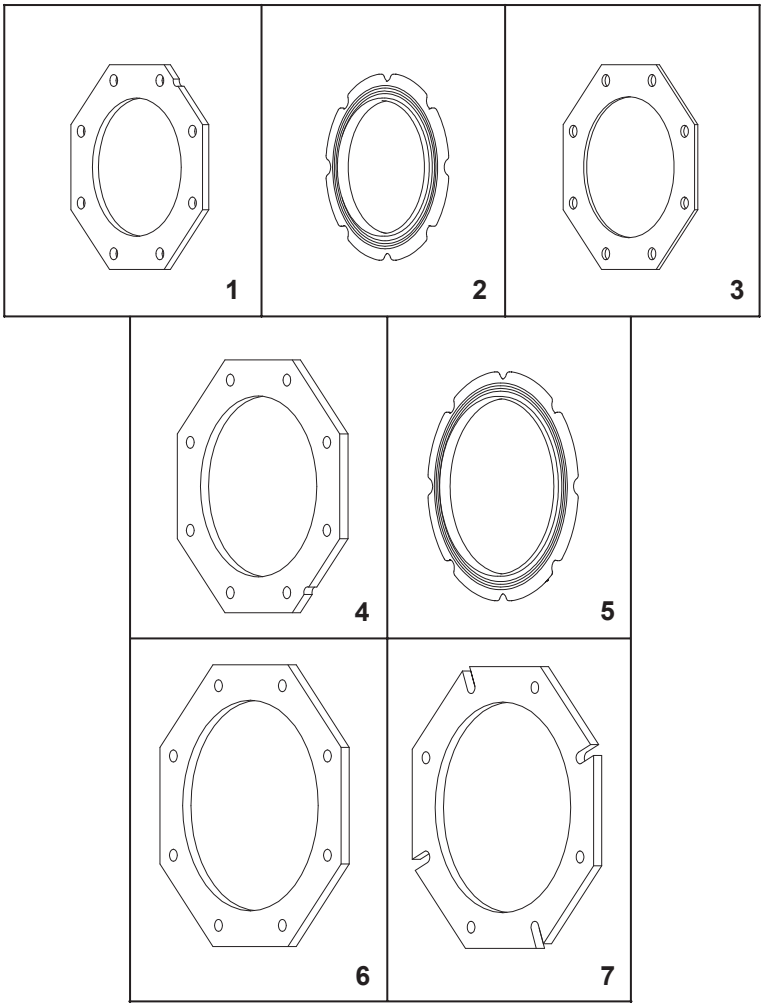
MODEL 8000



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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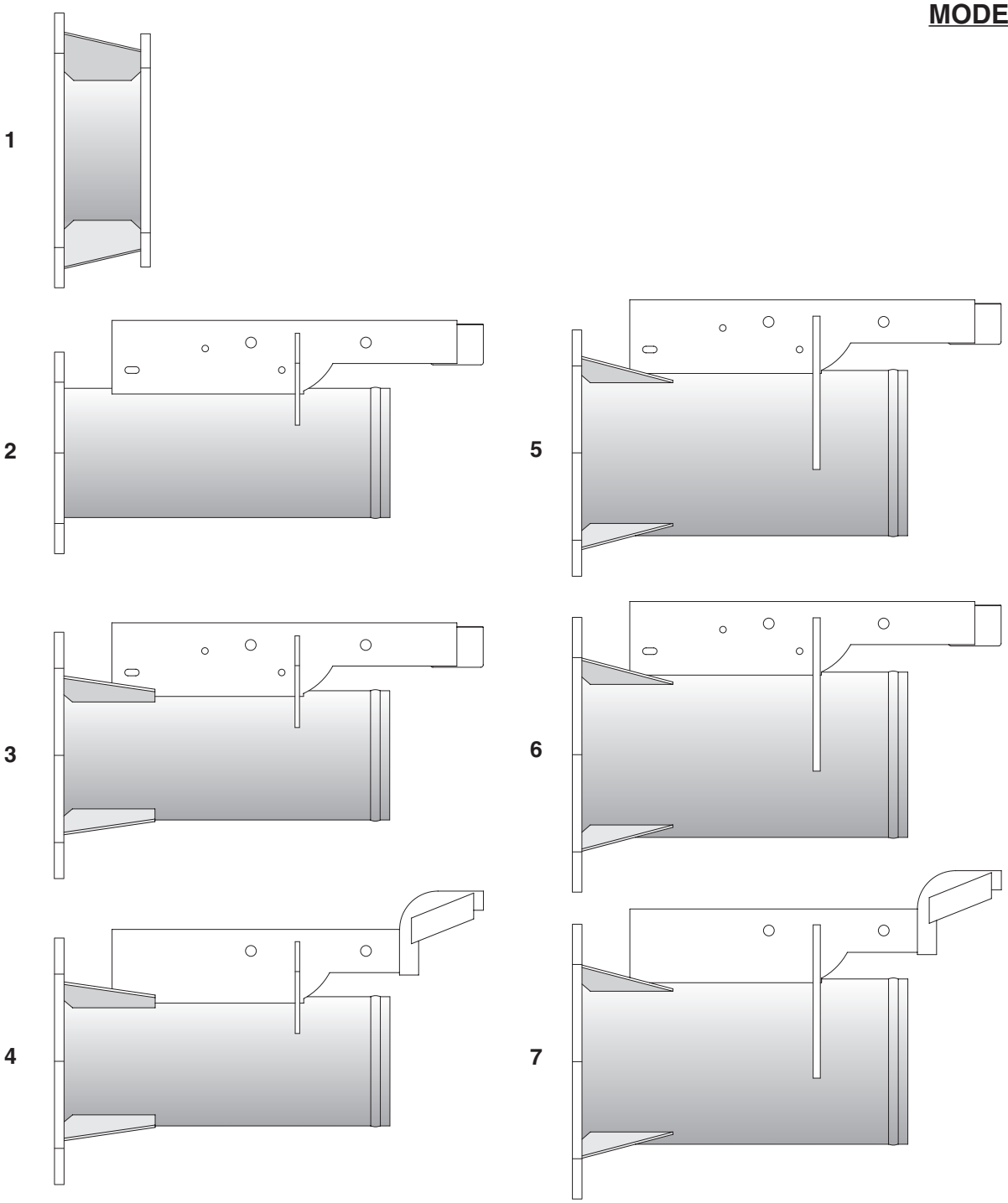
MODEL 8000



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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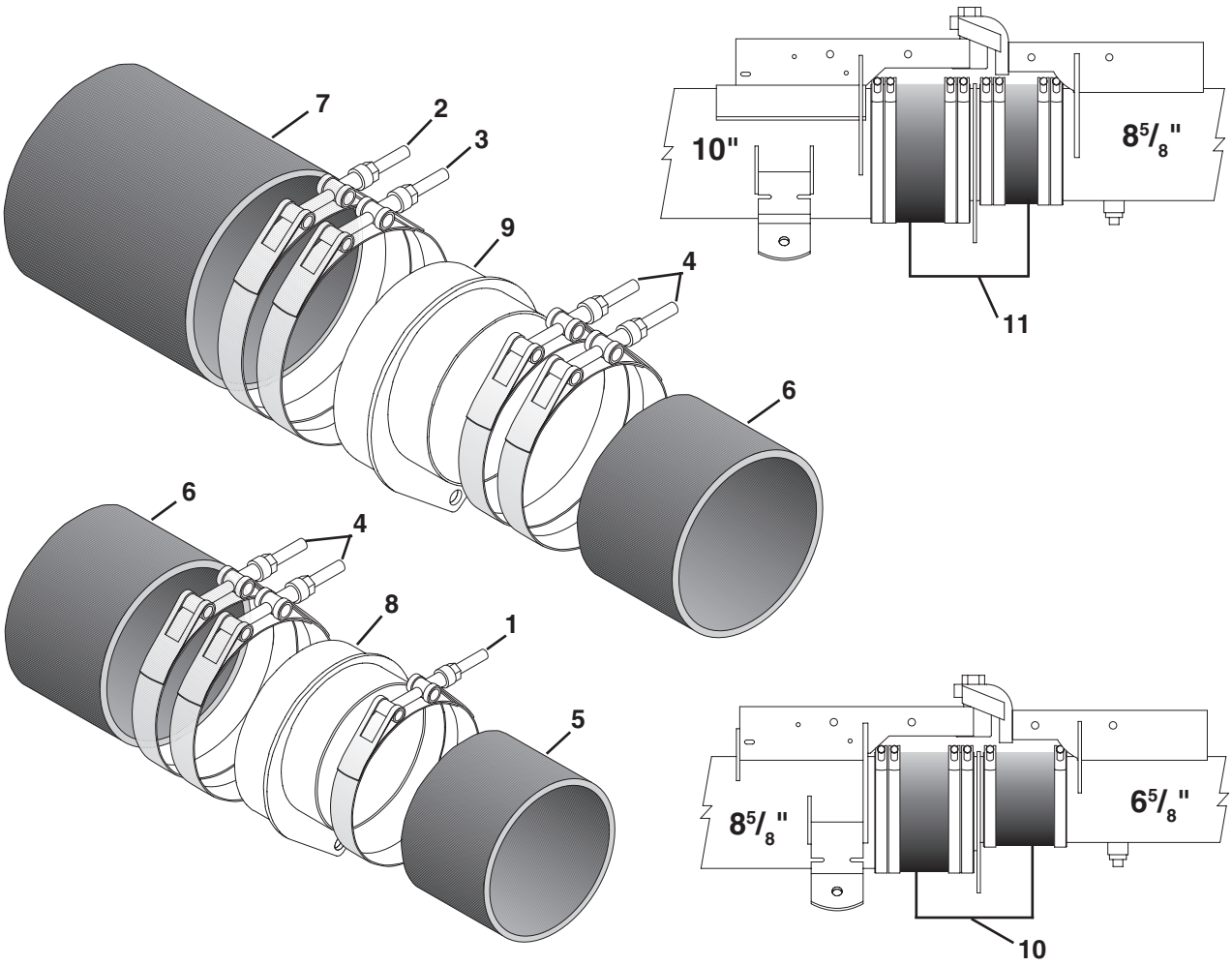
MODEL 8000



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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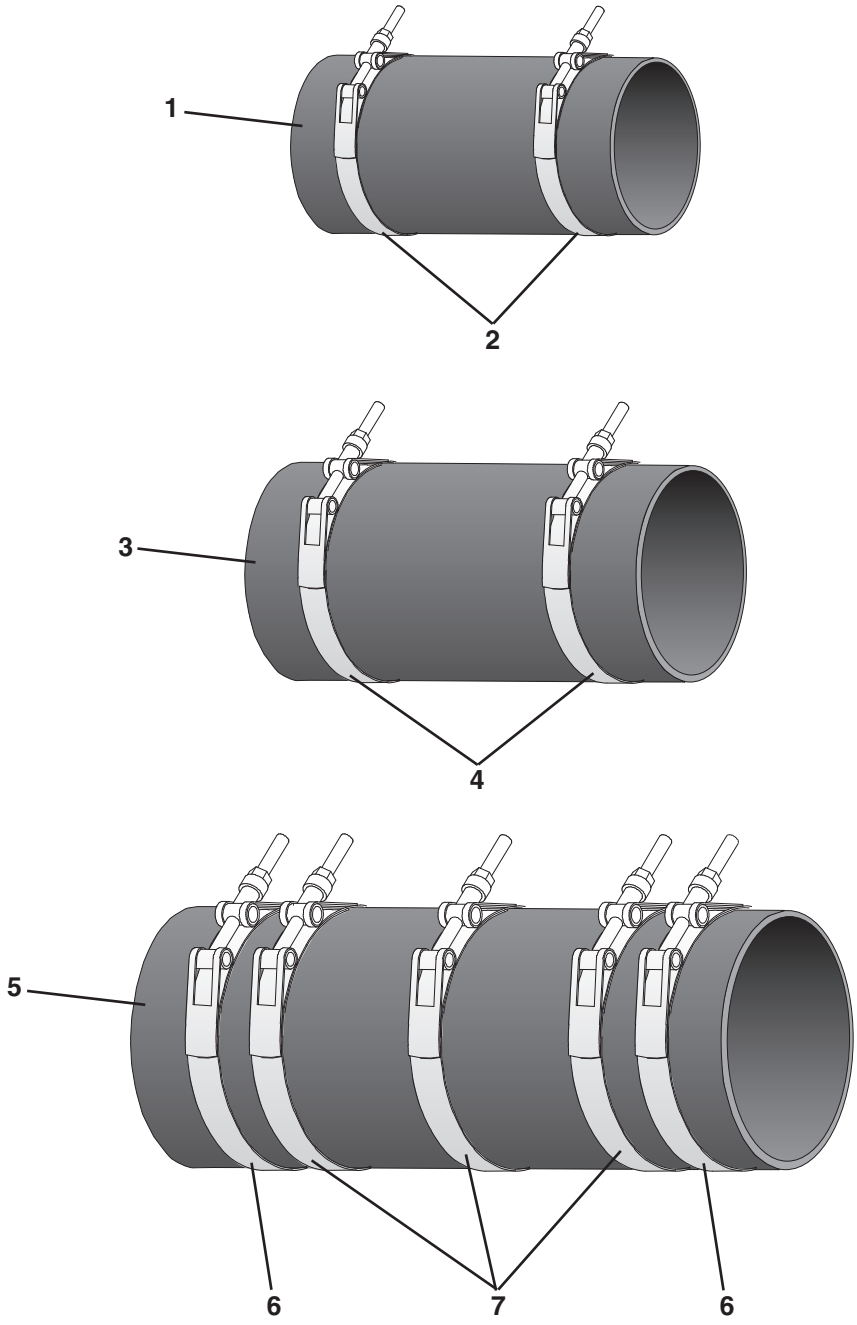
MODEL 8000



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

Universal Linear - Effective 05/98

Description	Rev. #	Pg. #
6-5/8" Pipe - 113.3"[287.8cm] & 75.5"[191.8cm] Coupler Spacing		
Truss Package Locations	08-05	11-4
Truss Angle Packages	08-05	11-5
Pipe/Truss Rod Locations - EFFECTIVE Feb. 2012	10-11	11-6
Pipes/Truss Rods - EFFECTIVE Feb. 2012	12-15	11-7
113.3" Spacing Sprinkler Coupling Locations	01-99	11-8
113.3" Spacing Sprinkler Coupling Location Details	01-99	11-9
75.5" Spacing Sprinkler Coupling Locations	01-99	11-10
75.5" Spacing Sprinkler Coupling Location Details	01-99	11-11
Assembly Details	01-99	11-12
8-5/8" Pipe - 113.3"[287.8cm] & 75.5"[191.8cm] Coupler Spacing		
Truss Package Locations	08-05	11-14
Truss Angle Packages	08-05	11-15
Pipe/Truss Rod Locations - EFFECTIVE Feb. 2012	10-11	11-16
Pipes/Truss Rods - EFFECTIVE Feb. 2012	02-12	11-17
113.3" Spacing Sprinkler Coupling Locations	01-99	11-18
113.3" Spacing Sprinkler Coupling Location Details	01-99	11-19
75.5" Spacing Sprinkler Coupling Locations	01-99	11-20
75.5" Spacing Sprinkler Coupling Location Details	01-99	11-21
Assembly Details	01-99	11-22
5" Pipe - 113.3"[287.8cm] & 75.5"[191.8cm] Coupler Spacing		
Truss Package Locations	05-02	11-24
Truss Angle Packages	05-02	11-25
Pipe/Truss Rod Locations - EFFECTIVE Feb. 2012	10-11	11-26
Pipes/Truss Rods - EFFECTIVE Feb. 2012	02-12	11-27
113.3" Spacing Sprinkler Coupling Locations	05-02	11-28
113.3" Spacing Sprinkler Coupling Location Details	05-02	11-29
75.5" Spacing Sprinkler Coupling Locations	05-02	11-30
75.5" Spacing Sprinkler Coupling Location Details	05-02	11-31
Assembly Details	05-02	11-32
Pipeline Accessories		
Pipe Drain	02-13	11-34
Flanges & Gaskets	03-12	11-35
Flex Hose & Hitch Components	08-18	11-36
Forged Hitch Ball	03-12	11-37

For older versions of product design refer to "PRIOR TO" pages in corresponding section in 8000/8120 Linear Manual.

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MODEL 8120

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

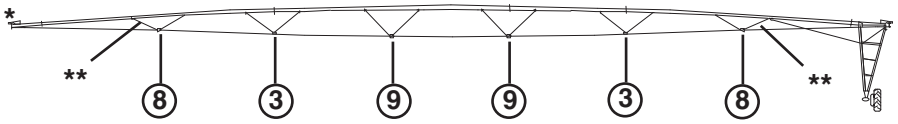


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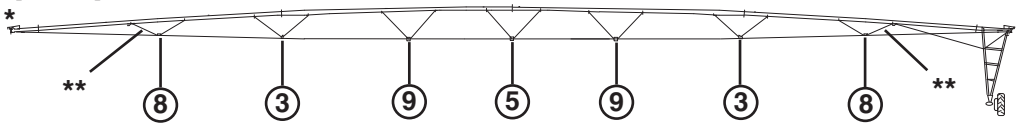
Functional Area	Assembly / Part	Rev# 08-05
6-5/8" Pipe - 113.3" & 75.5" Spacing	Truss Package Locations	

MODEL 8120

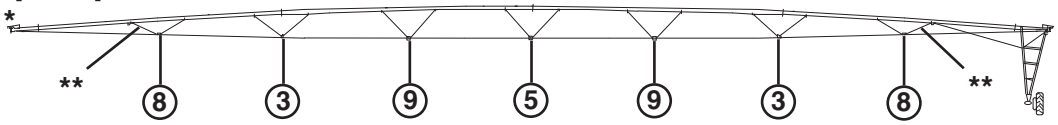
142.3' Span
[43.37m]



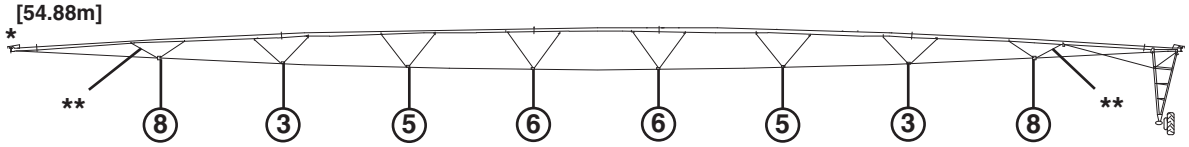
157.5' Span
[48.00m]



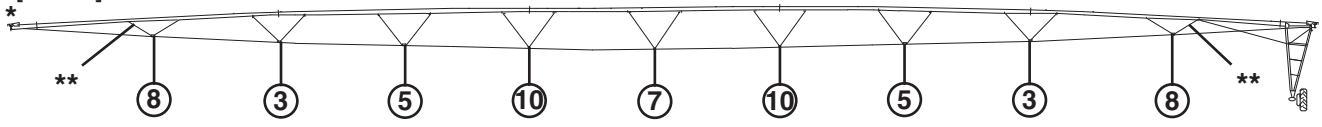
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]



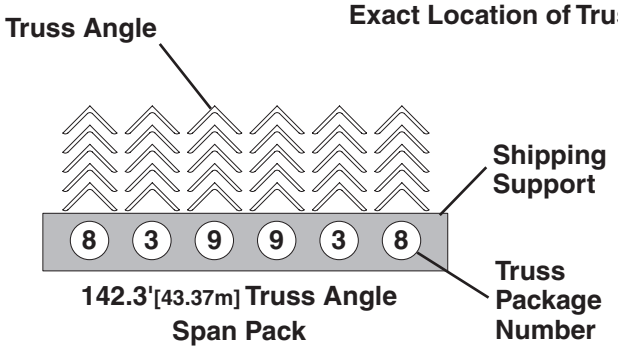
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

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

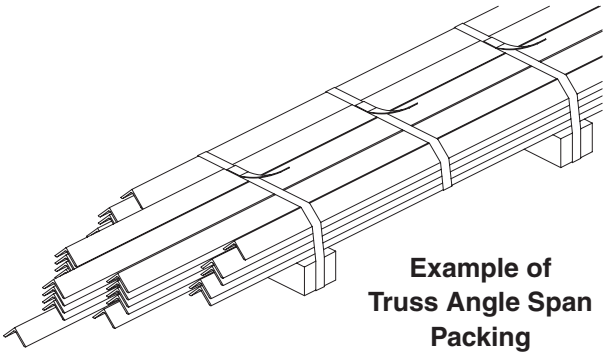
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MODEL 8120

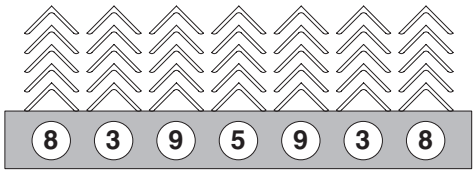
Reference Assembly Detail Page for Exact Location of Truss Packages



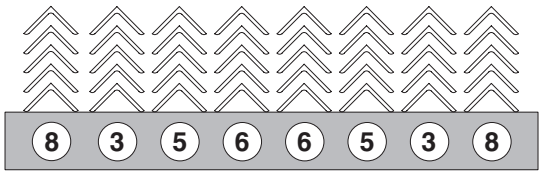
142.3'[43.37m] Truss Angle Span Pack (KA09283)



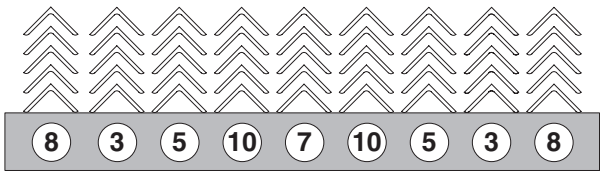
Example of Truss Angle Span Packing



157.5'[48.00m] & 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		Part #	Overall Length	
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"	[312.3cm]
7	9360058	112.09"	[284.7cm]	9360059	136.84"	[347.6cm]
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]
10	9360704	108.50"	[275.6cm]	9360705	131.63"	[334.3cm]

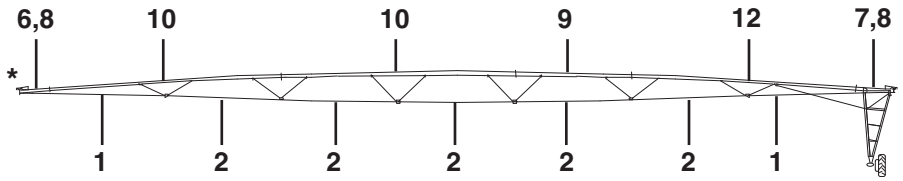
** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.

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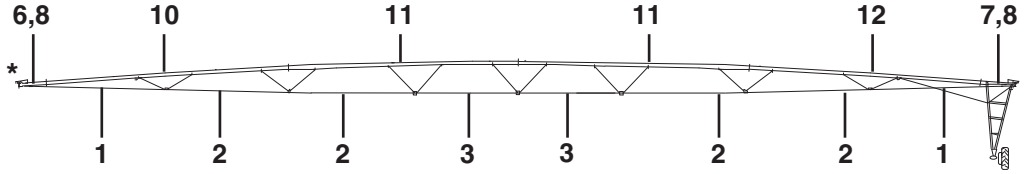
MODEL 8120

EFFECTIVE
February 2012

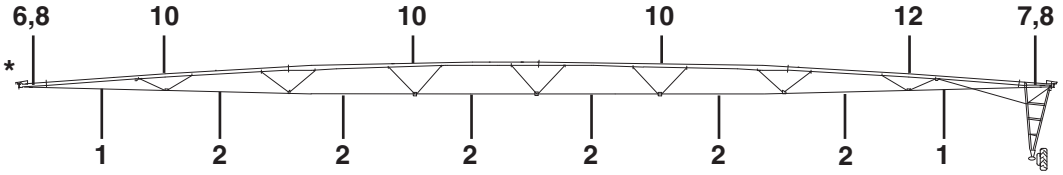
142.3' Span
[43.37m]



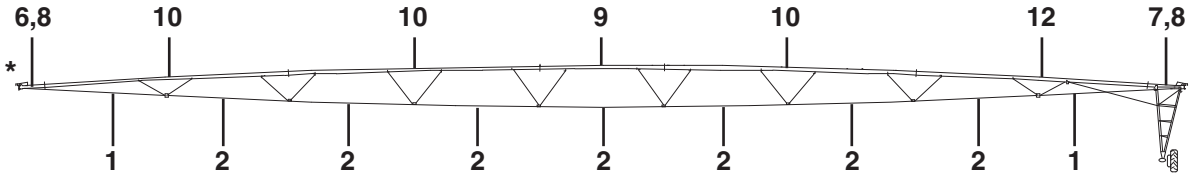
157.5' Span
[48.00m]



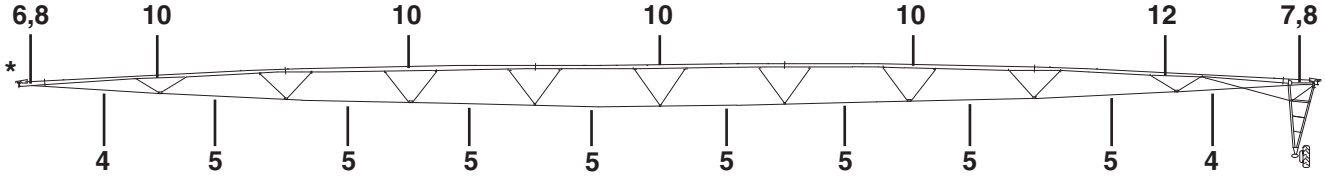
161.2' Span
[49.13m]



180' Span
[54.86m]



198.9' Span
[60.63m]



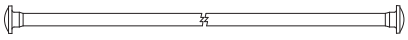
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

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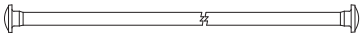
MODEL 8120

EFFECTIVE
February 2012

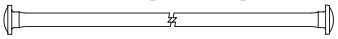
1 **22' - 2.84"[677.8cm] Head/Head** **Purple**



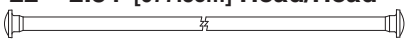
2 **18' - 8.28"[569.7cm] Head/Head** **Gold**



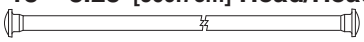
3 **16' - 10.56"[514.5cm] Head/Head**



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



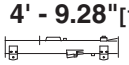
5 **18' - 8.28"[569.7cm] Head/Head** **Flourescent Green**



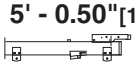
6 **5' - 0.50"[153.7cm]**



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



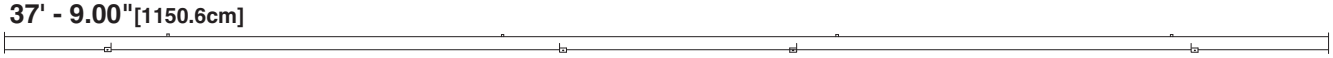
8 **5' - 0.50"[153.7cm]**



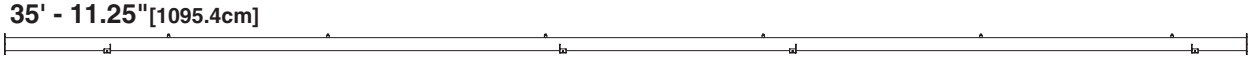
9 **18' - 10.41"[575.1cm]**



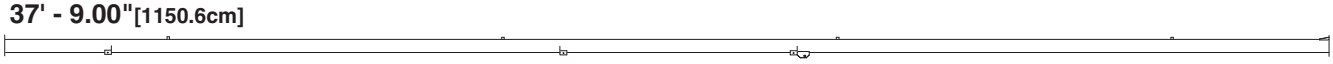
10 **37' - 9.00"[1150.6cm]**



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



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

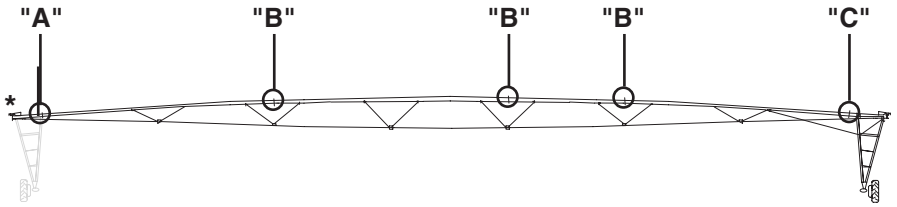


Item	Description	Part #	
1	3/4"[19mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4"[19mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682	
3	3/4"[19mm] Intermediate Truss Rod (16'-10.56")[514.5cm]	9362511	
4	13/16"[20.6mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
5	13/16"[20.6mm] Intermediate 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

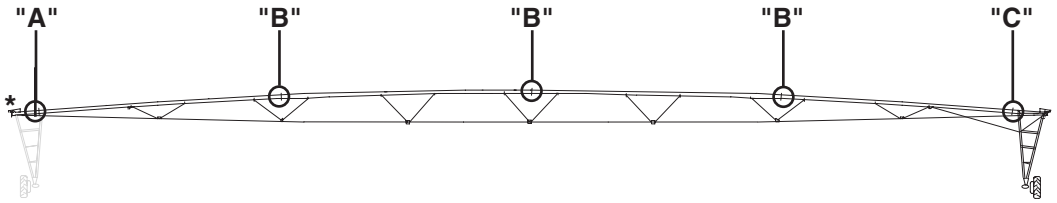
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MODEL 8120

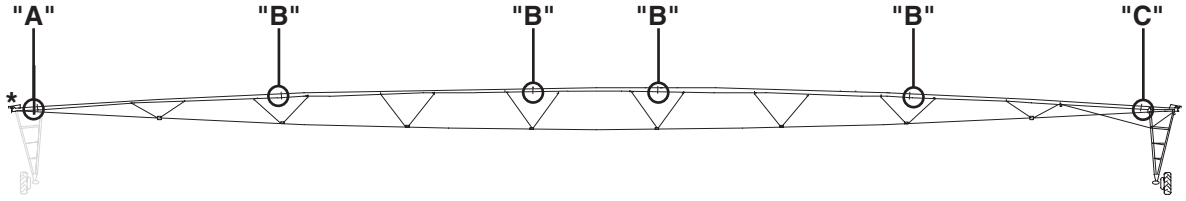
142.3' Span
[43.37m]



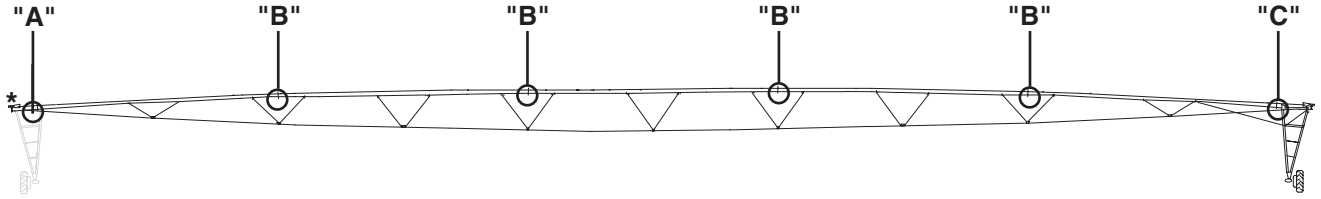
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]

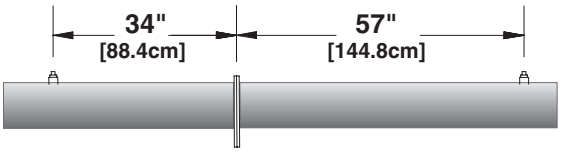


***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

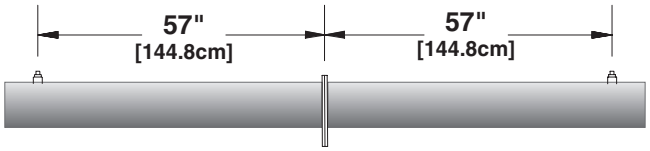
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MODEL 8120

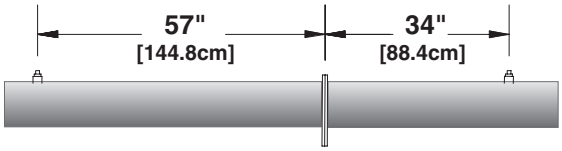
Detail "A"



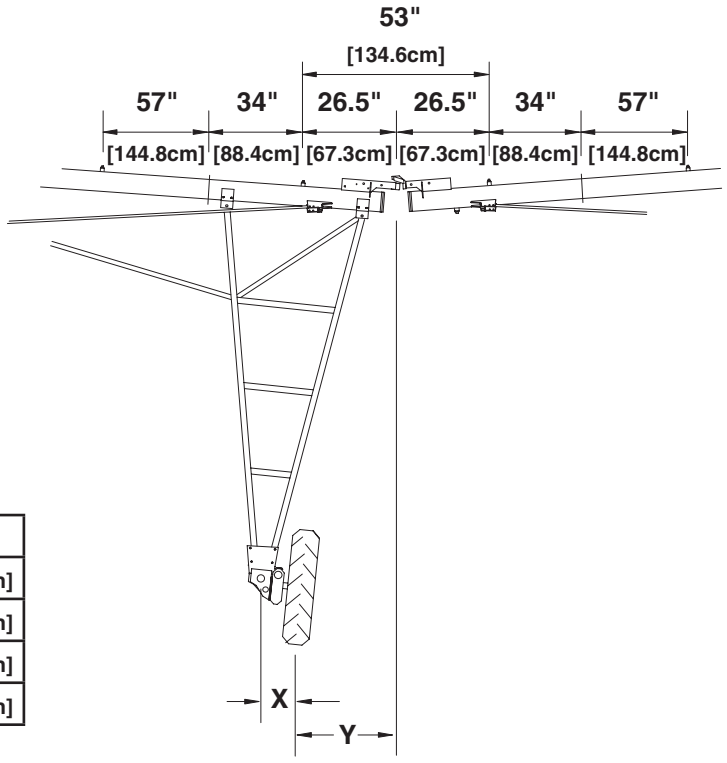
Detail "B"



Detail "C"







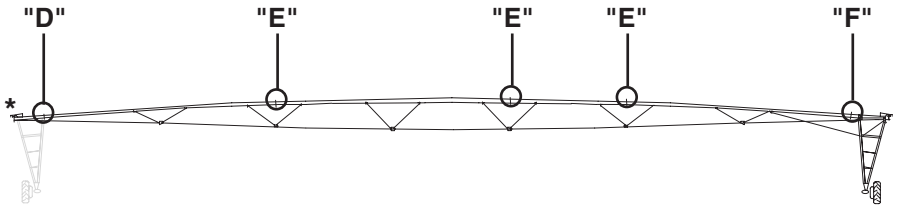
TIRE	X	Y
11.2 x 24	12.4" [31.5cm]	30.9" [78.5cm]
14.9 x 24	14.1" [35.8cm]	29.2" [74.2cm]
16.9 x 24	15.5" [39.4cm]	27.8" [70.6cm]
11.2 x 38	11.8" [30.0cm]	31.5" [80.0cm]

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

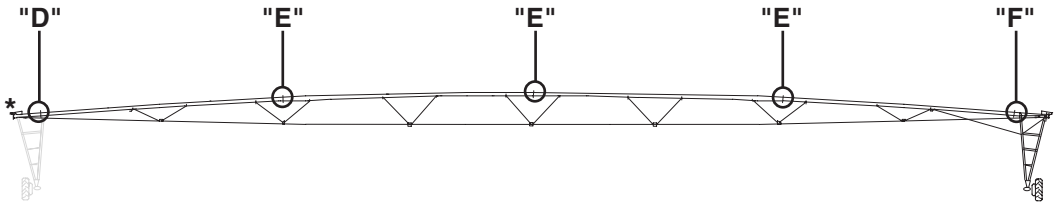
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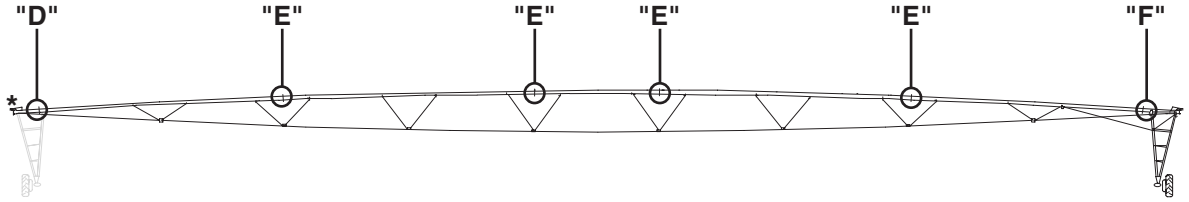
142.3' Span
[43.37m]



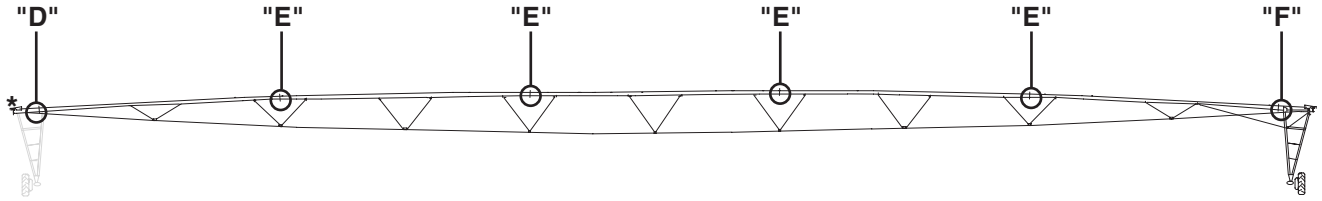
161.2' Span
[49.12m]



180' Span
[54.88m]



198.9' Span
[60.63m]

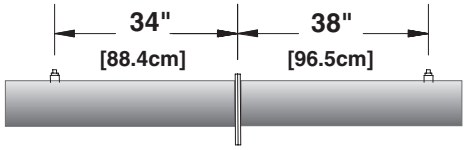


***NOTE: Fixed Stub and Drive Unit are used at ..... both ends of Freestanding Spans.**

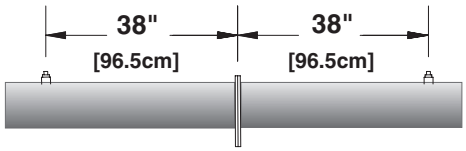
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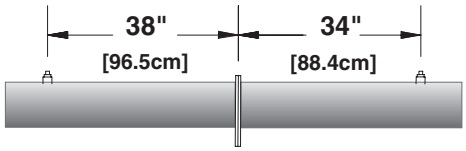
Detail "D"



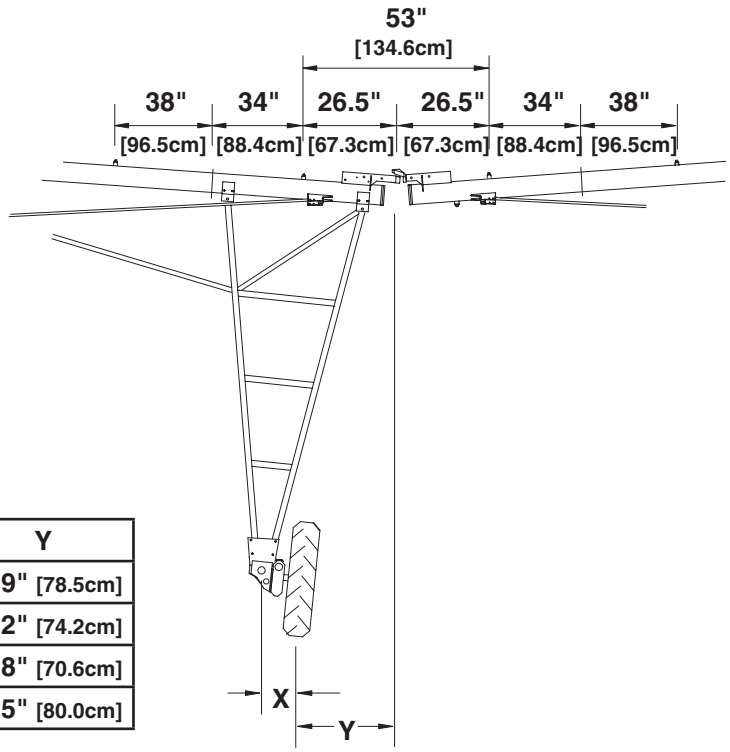
Detail "E"



Detail "F"



PIVOT

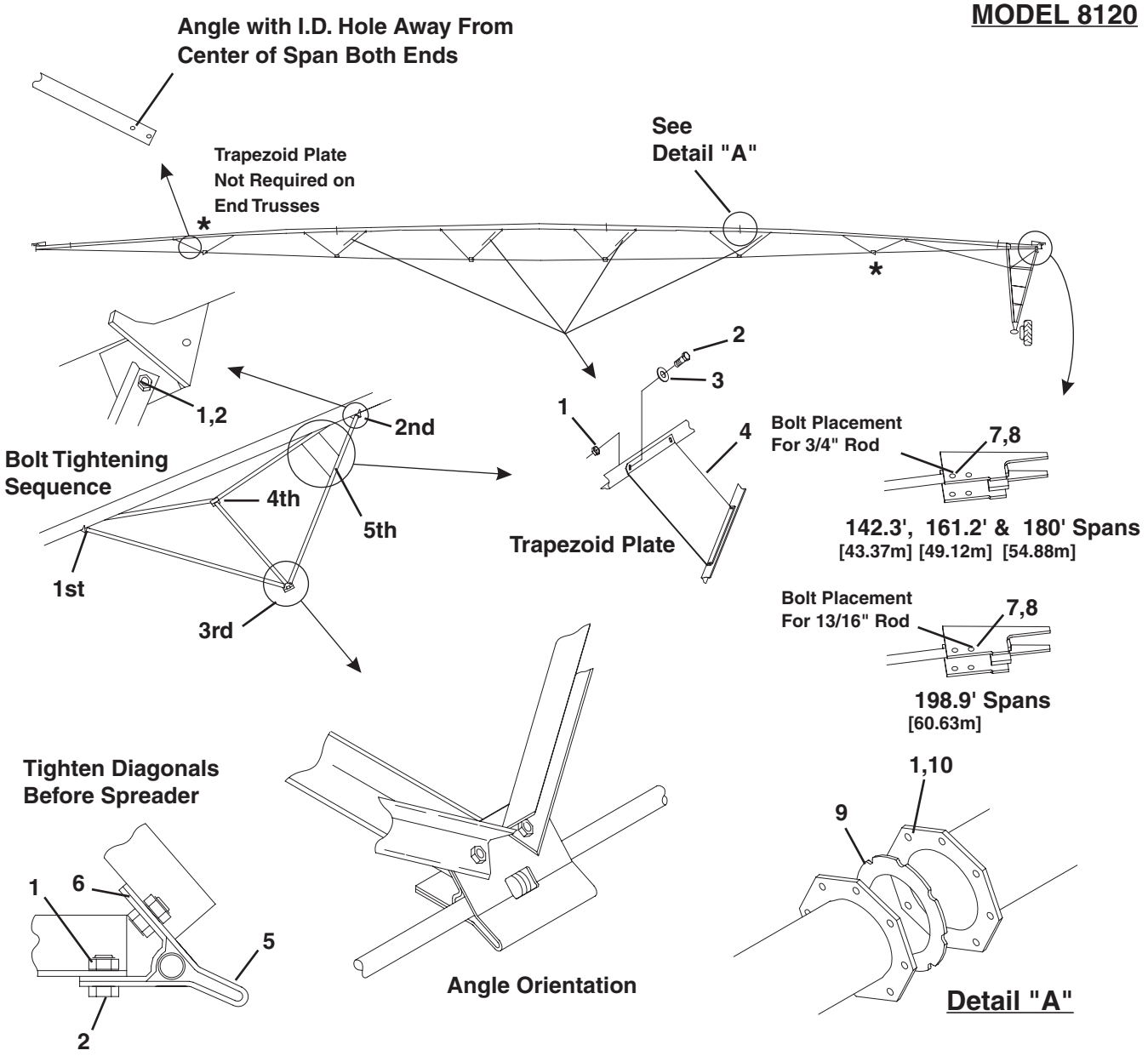


TIRE	X	Y
11.2 x 24	12.4" [31.5cm]	30.9" [78.5cm]
14.9 x 24	14.1" [35.8cm]	29.2" [74.2cm]
16.9 x 24	15.5" [39.4cm]	27.8" [70.6cm]
11.2 x 38	11.8" [30.0cm]	31.5" [80.0cm]

NOTE: The "Y" dimension can vary ±3.0" 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	6-5/8" Gasket	0991107
10	1/2" x 2" Cap Screw	0161024

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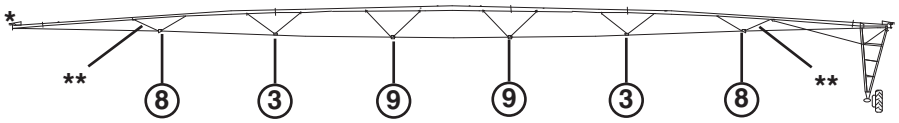
ADD & FREESTANDING SPANS
8-5/8" PIPE
113.3" & 75.5" COUPLER SPACING



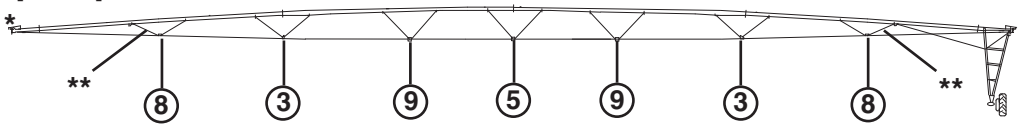
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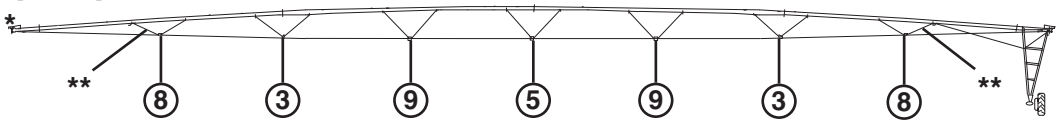
142.3' Span
[43.37m]



157.5' Span
[48.00m]



161.2' Span
[49.12m]



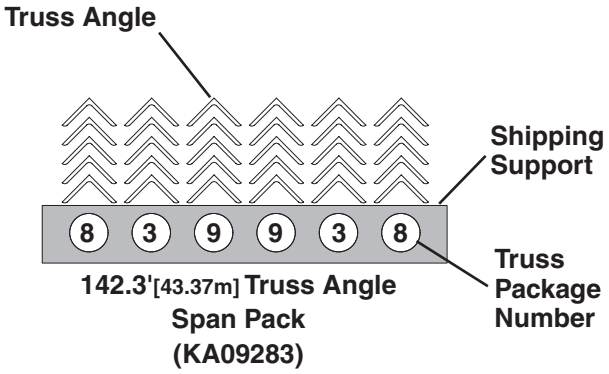
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

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

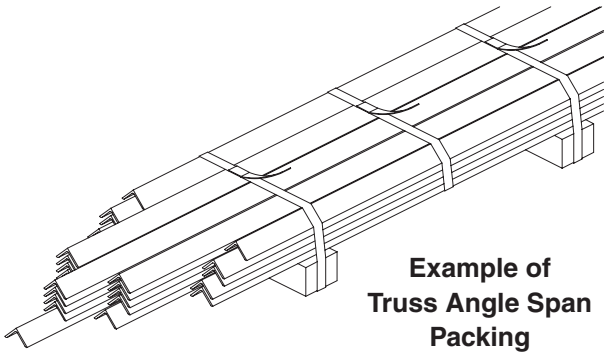
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MODEL 8120

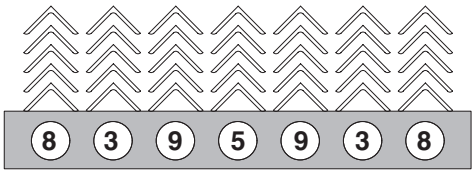
Reference Assembly Detail Page for Exact Location of Truss Packages



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



Example of Truss Angle Span Packing



157.5'[48.00m] & 161.2'[49.12m] Truss Angle Span Pack (KA09285)

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		Overall Length
3	9360050	82.78" [210.3cm]	9360051	92.69" [235.4cm]
5	9360054	97.25" [247.0cm]	9360055	115.03" [292.2cm]
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]

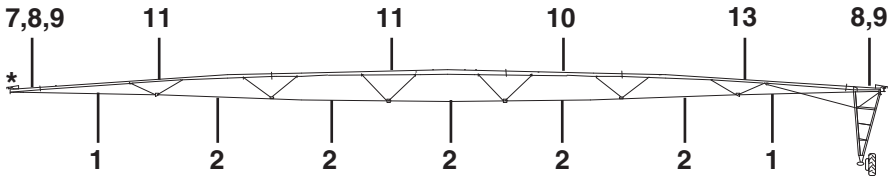
** NOTE: Longer diagonal has I.D. hole and is to be located away from span center.

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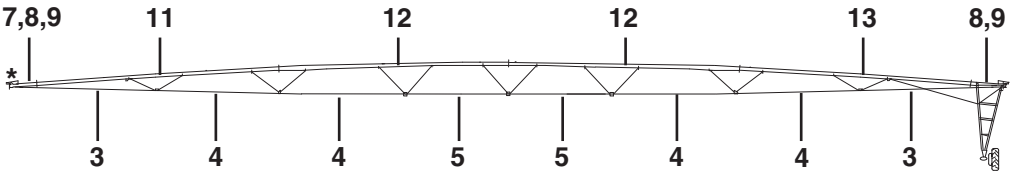
MODEL 8120

EFFECTIVE
February 2012

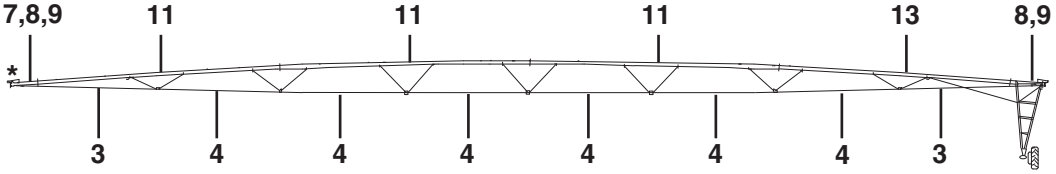
142.3' Span
[43.37m]



157.5' Span
[48.00m]



161.2' Span
[49.12m]



***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.

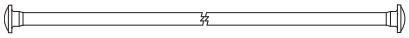
Transition Stub Pipes change from 8-5/8" to 6-5/8" dia. at the Fixed end of the Span when the transition is to the outer end of an End Feed machine or to either end of a Center Feed machine.

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MODEL 8120

EFFECTIVE
February 2012

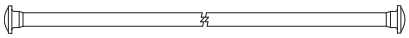
1 **22' - 2.84"[677.8cm] Head/Head Purple**



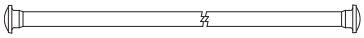
2 **18' - 8.28"[567.7cm] Head/Head Gold**



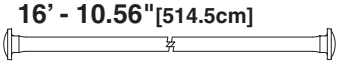
3 **22' - 2.84"[677.8cm] Head/Head Brown**



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



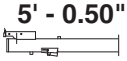
5 **16' - 10.56"[514.5cm]**



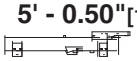
6 **5' - 0.50"[153.7cm] ***



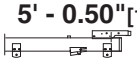
7 **5' - 0.50"[153.7cm]**



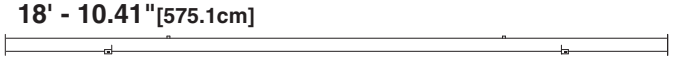
8 **5' - 0.50"[153.7cm] ***



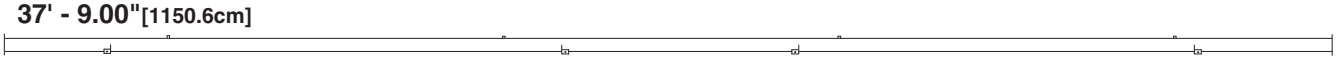
9 **5' - 0.50"[153.7cm]**



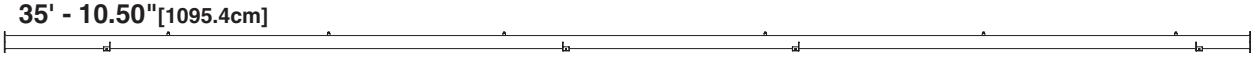
10 **18' - 10.41"[575.1cm]**



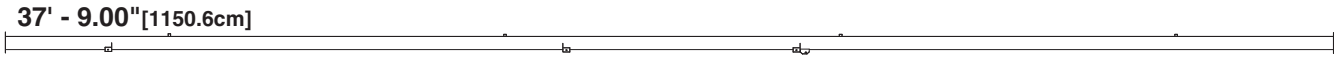
11 **37' - 9.00"[1150.6cm]**



12 **35' - 10.50"[1095.4cm]**



13 **37' - 9.00"[1150.6cm]**



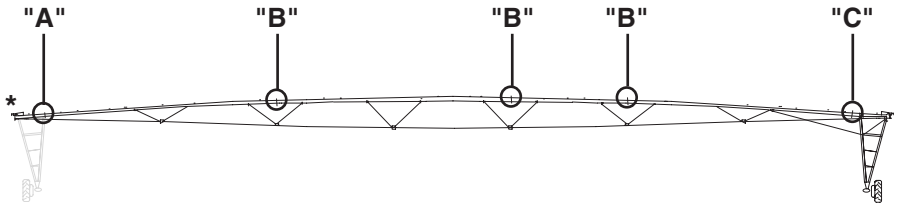
Item	Description	Part #	
1	3/4" Tower Truss Rod (22'-2.84")[677.8cm]	9360683	
2	3/4" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360682	
3	13/16" Tower Truss Rod (22'-2.84")[677.8cm]	9360718	
4	13/16" Intermediate Truss Rod (18'-8.28")[567.7cm]	9360719	
5	13/16" Intermediate Truss Rod (16'-10.56")[514.5cm]	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	
		113"[287.8cm]	75.5"[191.8cm]
10	19' Intermediate Pipe (18'-10.41")[575.1cm]	9360700	9360701
11	38' Intermediate Pipe (37'-9")[1150.6cm]	9360702	9360703
12	36' Intermediate Pipe (35'-10.50")[1095.4cm]	-	9362502
13	38' Tower Pipe (37'-9")[1150.6cm]	9363956	9363957

***NOTE: Transition Stubs consist of 6-5/8" pipe with 8-5/8" Flange.**

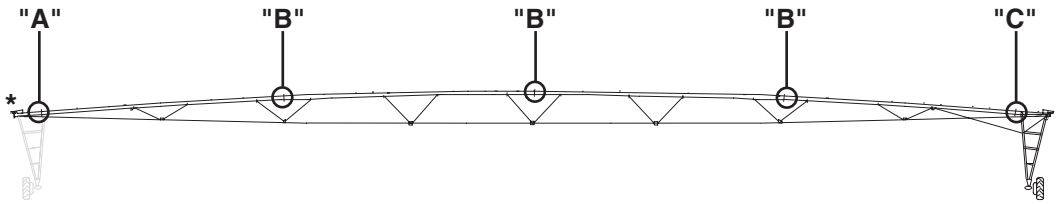
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MODEL 8120

142.3' Span
[43.37m]



161.2' Span
[49.12m]

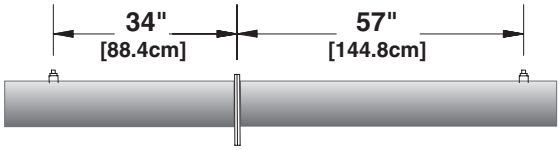


***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

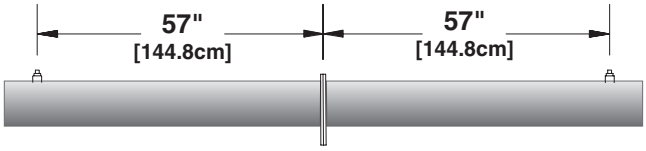
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MODEL 8120

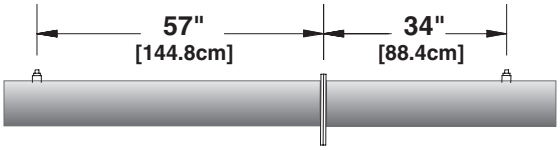
Detail "A"



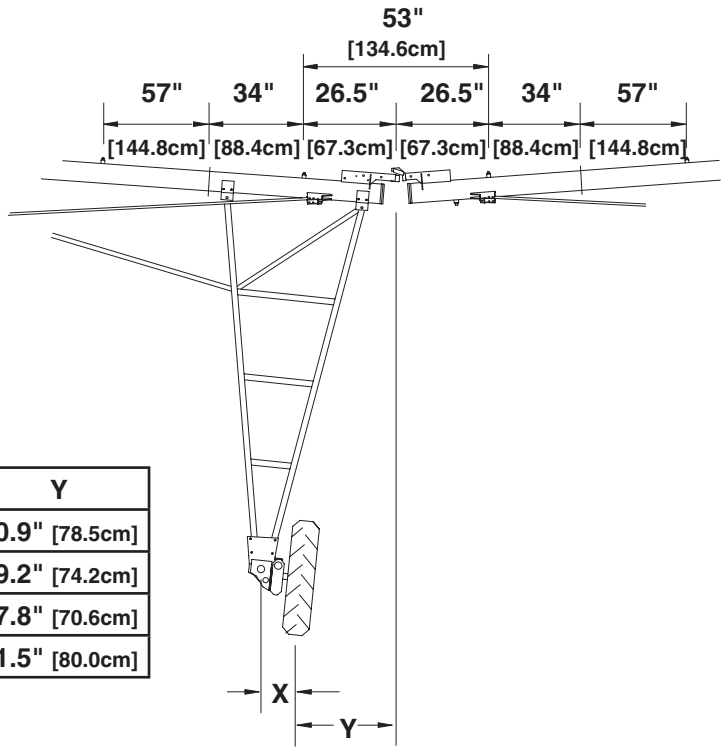
Detail "B"



Detail "C"



PIVOT



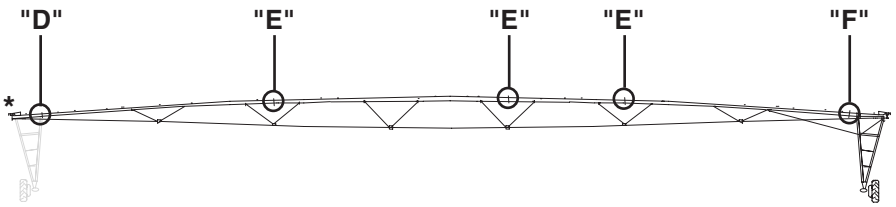
TIRE	X	Y
11.2 x 24	12.4" [31.5cm]	30.9" [78.5cm]
14.9 x 24	14.1" [35.8cm]	29.2" [74.2cm]
16.9 x 24	15.5" [39.4cm]	27.8" [70.6cm]
11.2 x 38	11.8" [30.0cm]	31.5" [80.0cm]

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

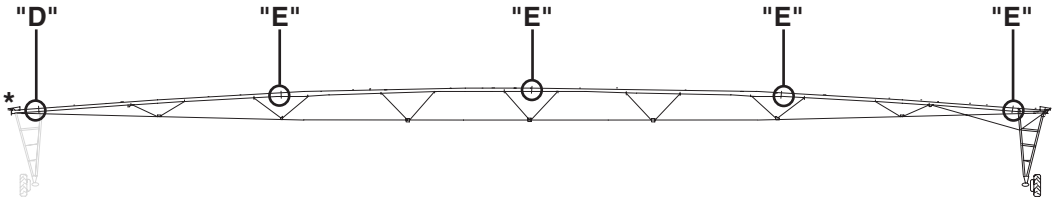
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MODEL 8120

142.3' Span
[43.37m]



161.2' Span
[49.12m]

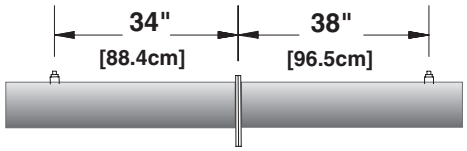


***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

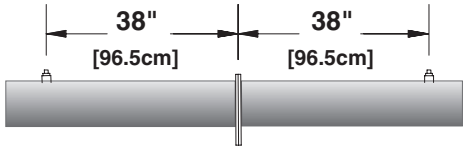
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MODEL 8120

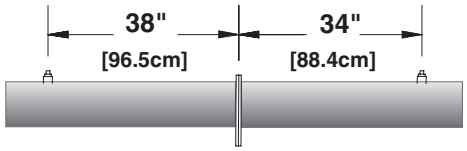
Detail "D"



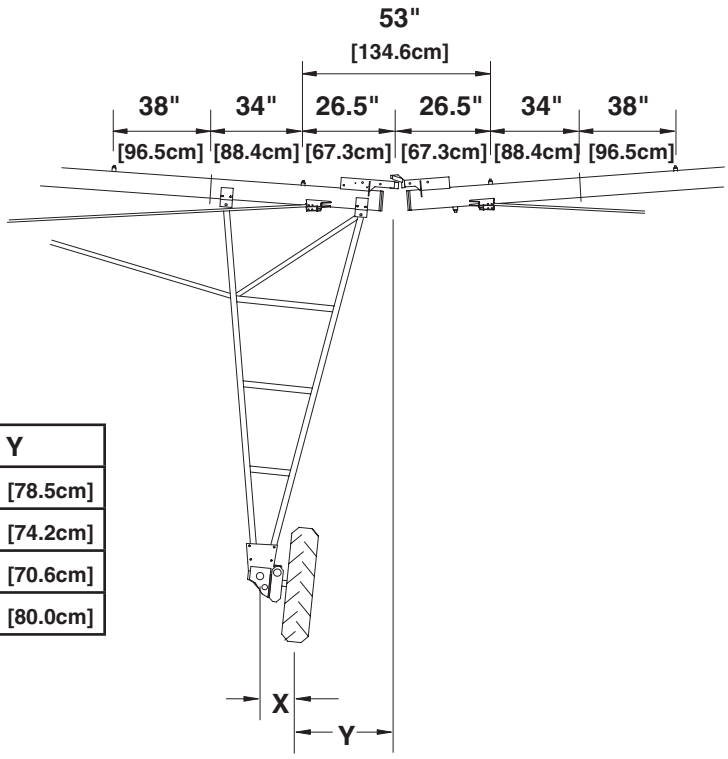
Detail "E"



Detail "F"



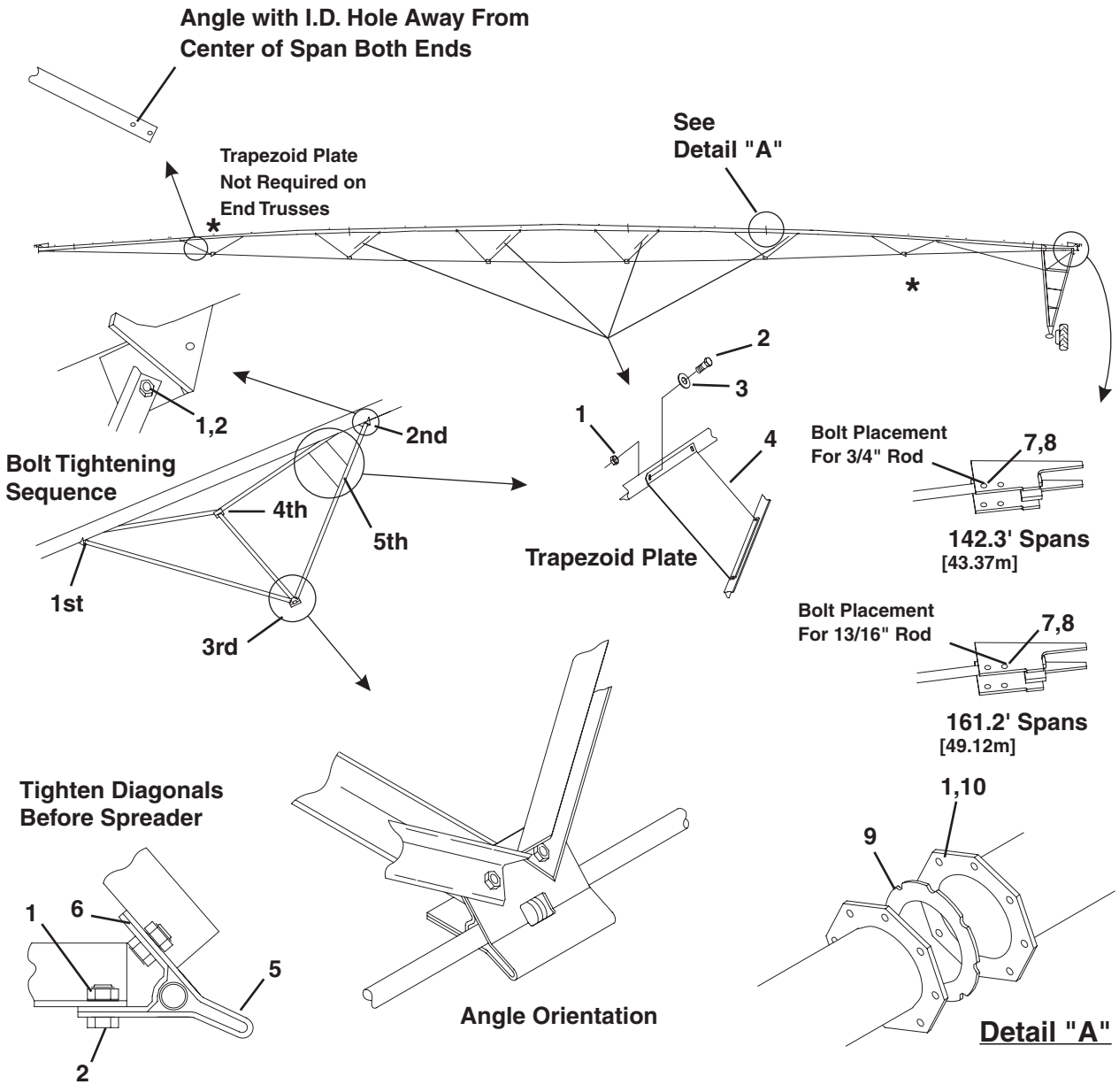
← **PIVOT**



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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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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MODEL 8120

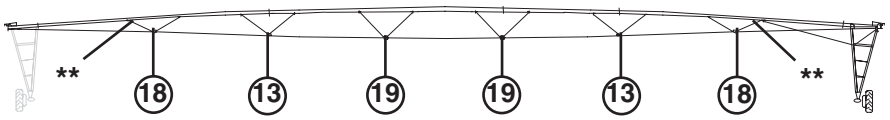
ADD & FREESTANDING SPANS
5" PIPE
113.3[287.8cm]" & 75.5"[191.8cm]
COUPLER SPACING



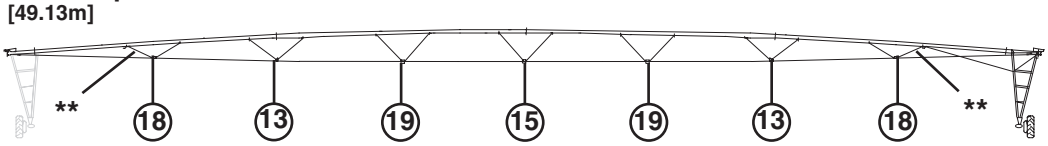
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MODEL 8120

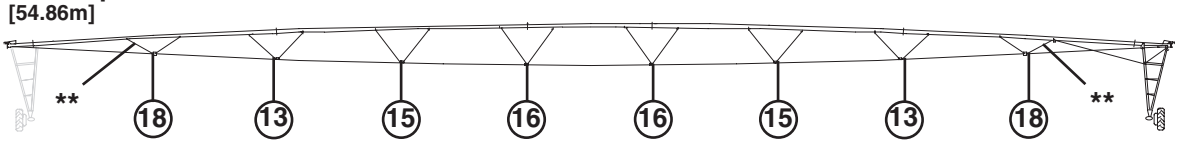
142.3' Span
[43.37m]



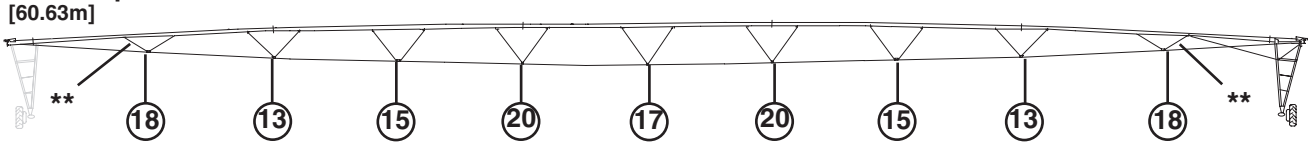
161.2' Span
[49.13m]



180' Span
[54.86m]



198.9' Span
[60.63m]

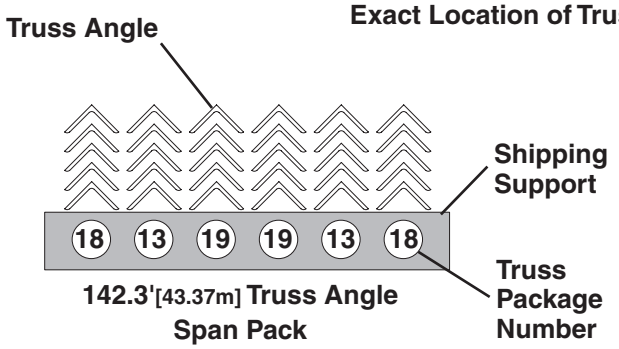


**** NOTE: Location of longer diagonal w/I.D. hole.**

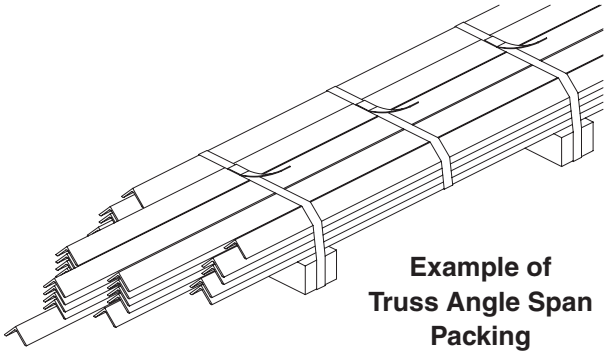
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MODEL 8120

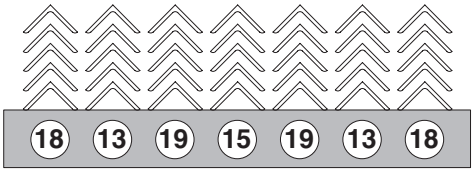
Reference Assembly Detail Page for Exact Location of Truss Packages



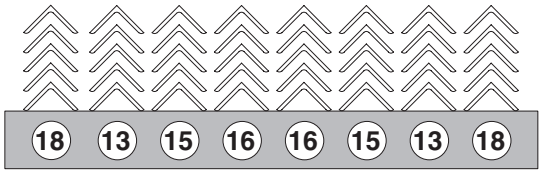
142.3'[43.37m] Truss Angle Span Pack (KA09478)



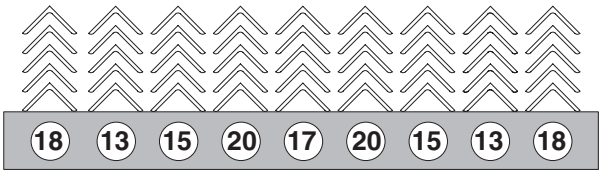
Example of Truss Angle Span Packing



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	Part #	Overall Length
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]

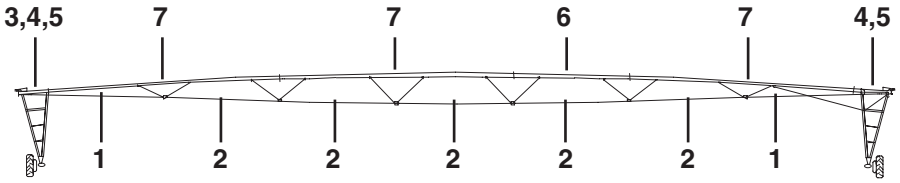
****NOTE: Longer diagonal has I.D. hole and is to be located away from span center.**

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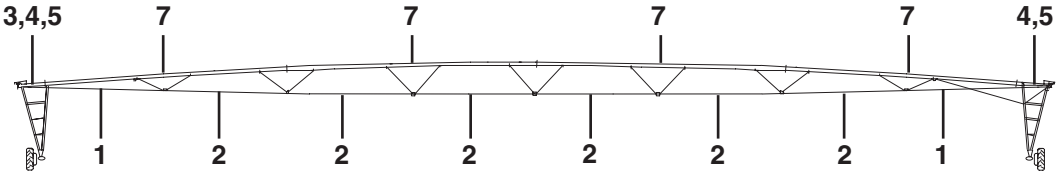
MODEL 8120

EFFECTIVE
February 2012

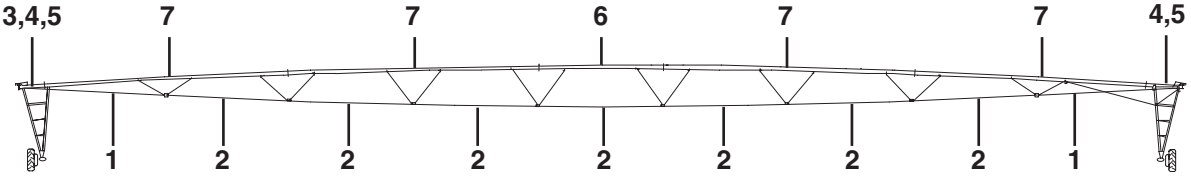
142.3' Span
[43.37m]



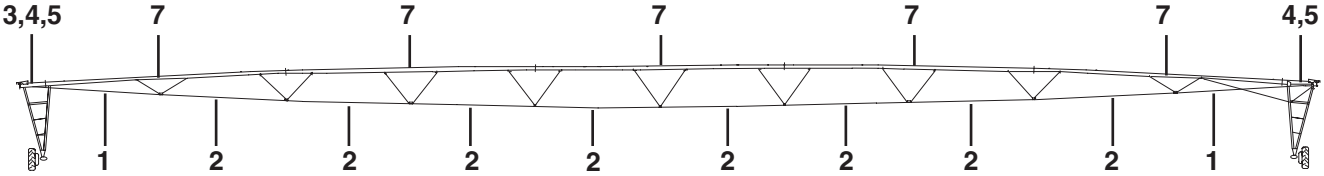
161.2' Span
[49.13m]



180' Span
[54.86m]



198.9' Span
[60.63m]

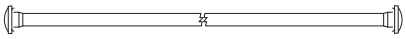


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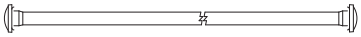
MODEL 8120

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]**



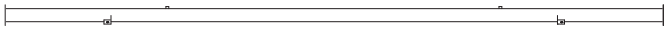
4 **4' - 9.28"[145.5cm]**



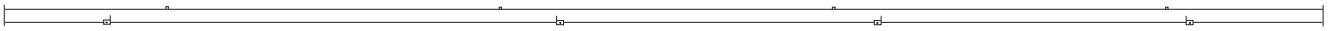
5 **5' - 0.50"[153.7cm]**



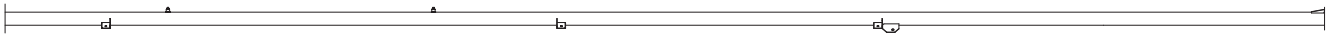
6 **18' - 10.41"[575.1cm]**



7 **37' - 9.00"[1150.6cm]**



8 **37' - 9.00"[1150.6cm]**

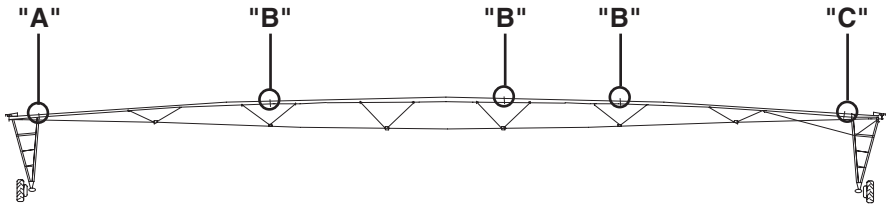


Item	Description	Part # 113"[287.8cm]	Part # 75.5"[191.8cm]
1	3/4"[19mm] Tower Truss Rod (22'-2.84")[677.8cm]	9360683	--
2	3/4"[19mm] Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682	--
3	Swivel Stub Pipe (5'-0.50")[153.7cm]	9360917	--
4	Last Stub Pipe (4'-9.28")[145.5cm]	9360919	--
5	Fixed Stub Pipe (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

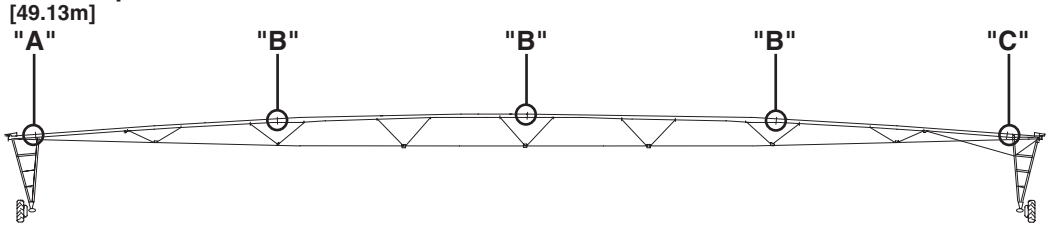
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MODEL 8120

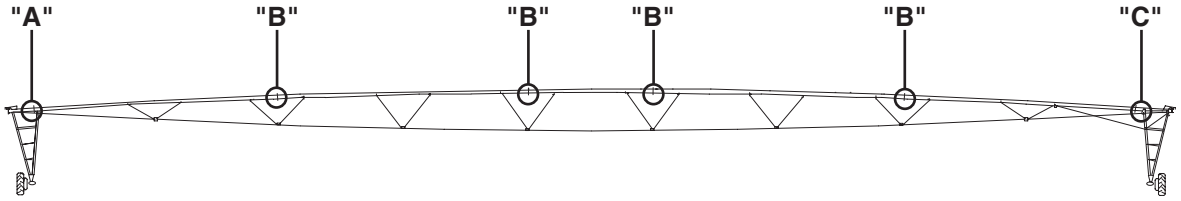
142.3' Span
[43.37m]



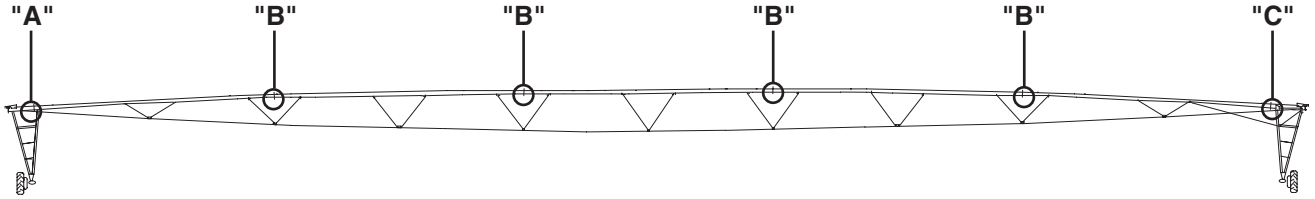
161.2' Span
[49.13m]



180' Span
[54.86m]



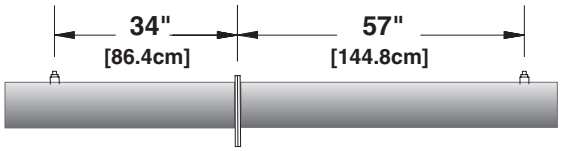
198.9' Span
[60.63m]



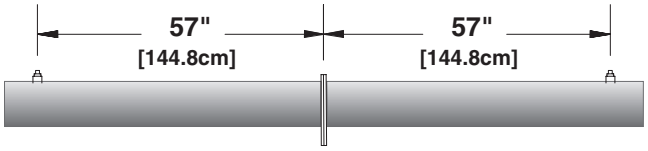
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MODEL 8120

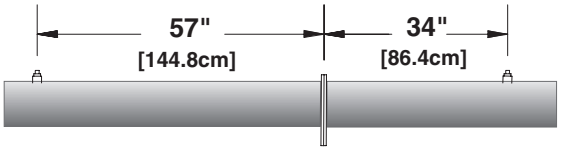
Detail "A"



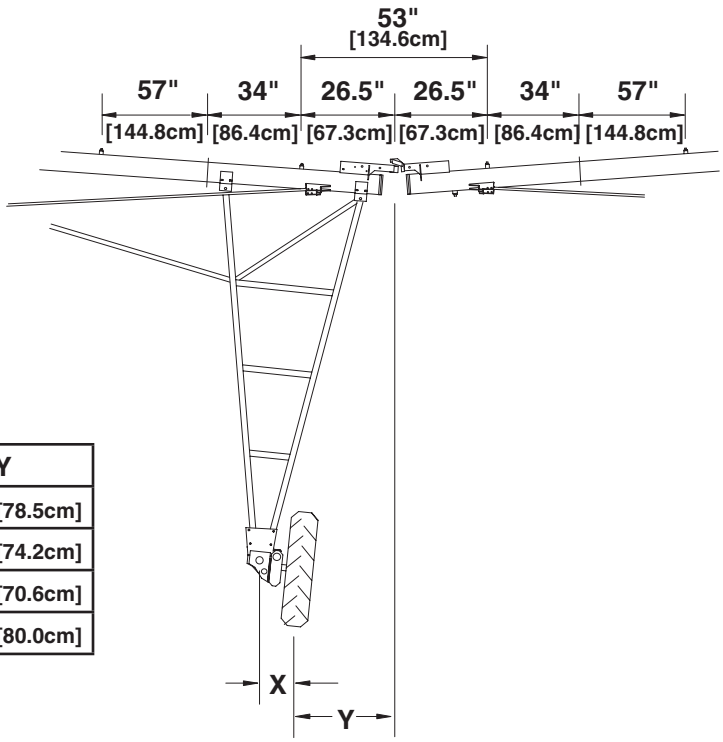
Detail "B"



Detail "C"



PIVOT



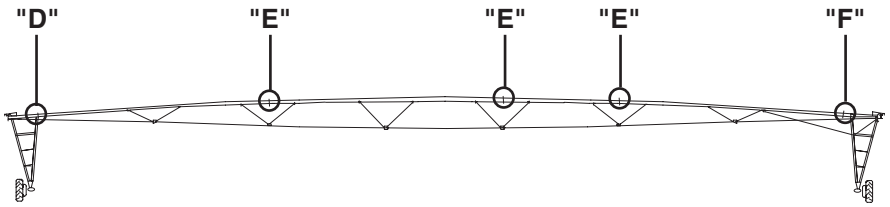
TIRE	X	Y
11.2 x 24	12.4" [31.5cm]	30.9" [78.5cm]
14.9 x 24	14.1" [35.8cm]	29.2" [74.2cm]
16.9 x 24	15.5" [39.4cm]	27.8" [70.6cm]
11.2 x 38	11.8" [30.0cm]	31.5" [80.0cm]

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

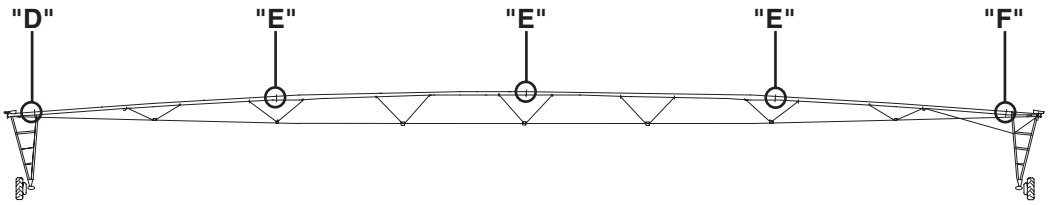
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MODEL 8120

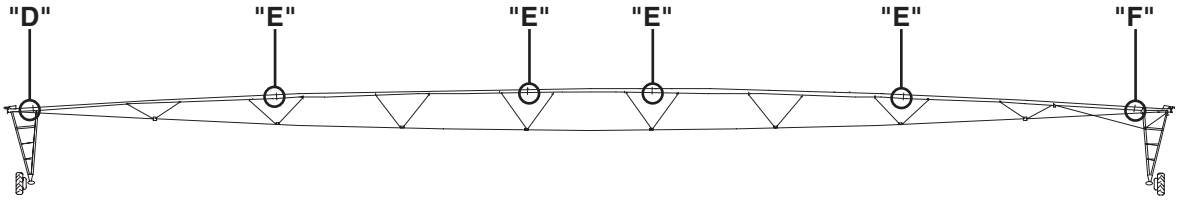
142.3' Span
[43.37m]



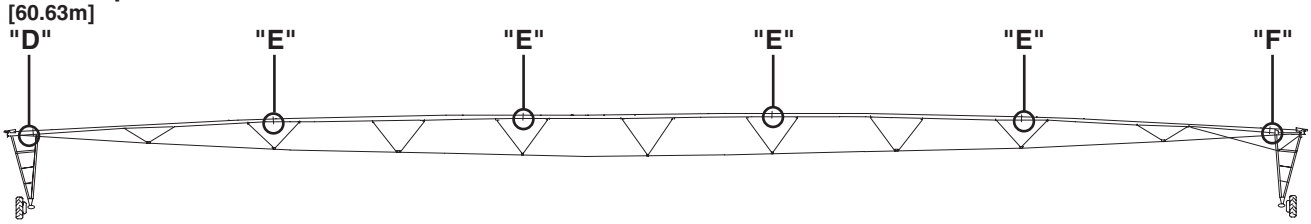
161.2' Span
[49.13m]



180' Span
[54.86m]



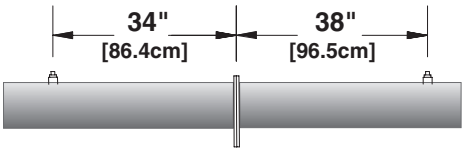
198.9' Span
[60.63m]



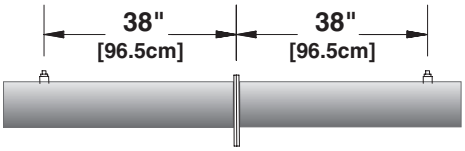
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MODEL 8120

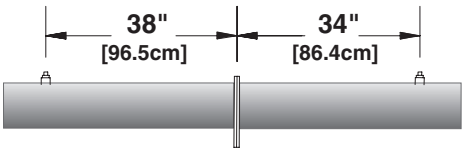
Detail "D"



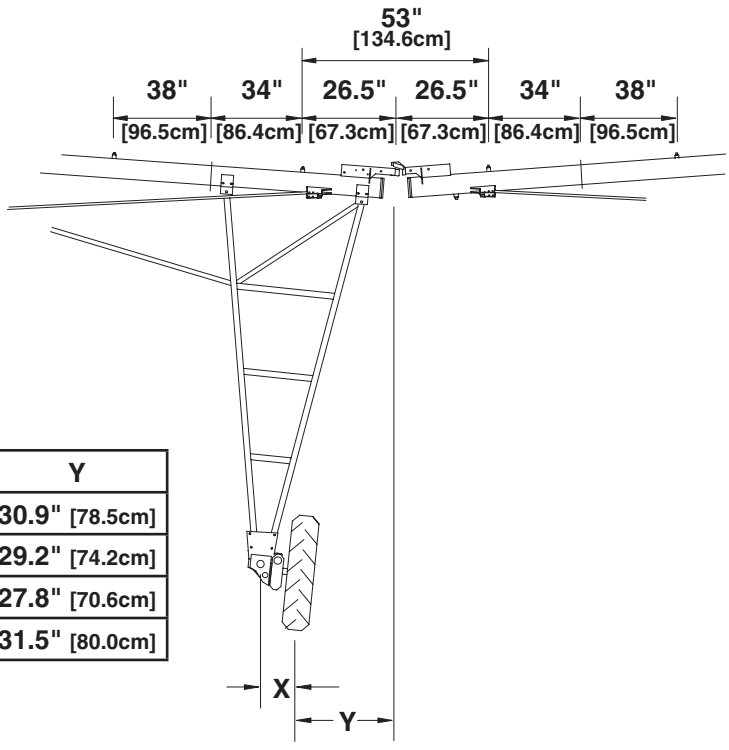
Detail "E"



Detail "F"



PIVOT

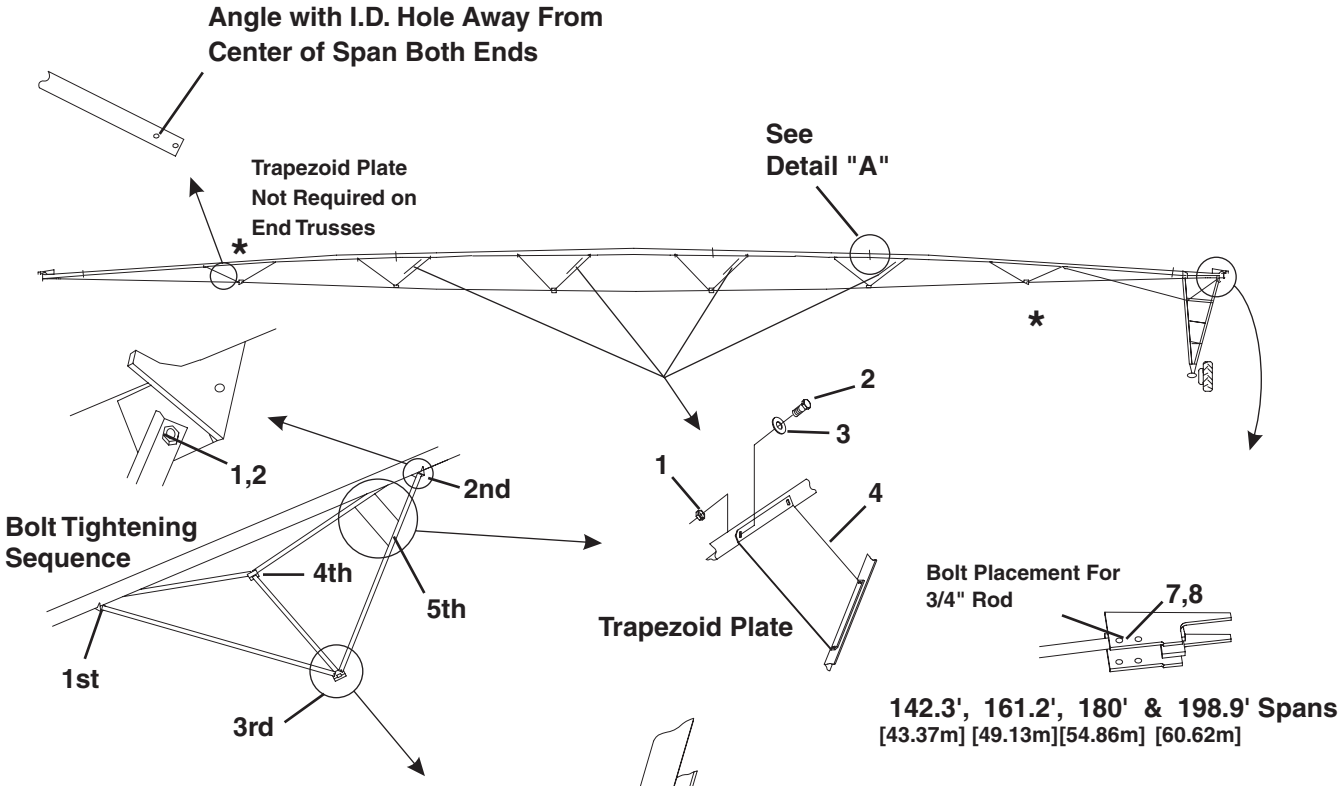


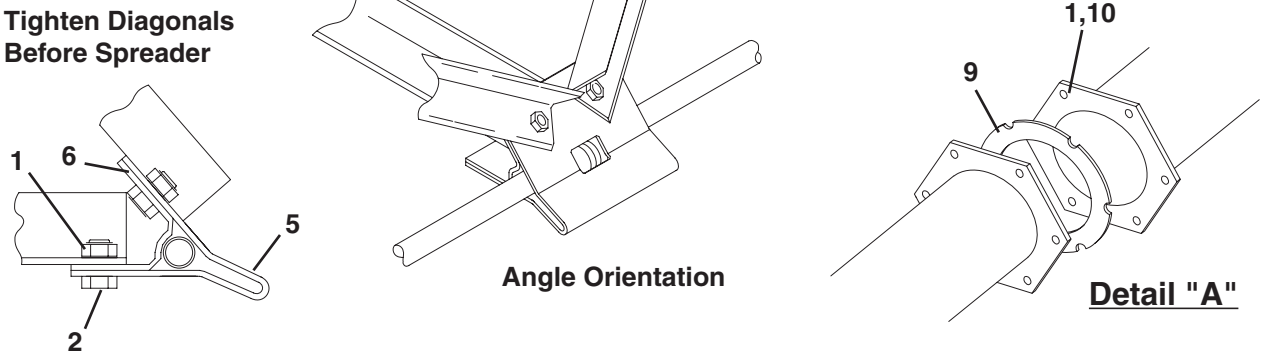
TIRE	X	Y
11.2 x 24	12.4" [31.5cm]	30.9" [78.5cm]
14.9 x 24	14.1" [35.8cm]	29.2" [74.2cm]
16.9 x 24	15.5" [39.4cm]	27.8" [70.6cm]
11.2 x 38	11.8" [30.0cm]	31.5" [80.0cm]

NOTE: The "Y" dimension can vary ±3.0"[76.2mm] 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

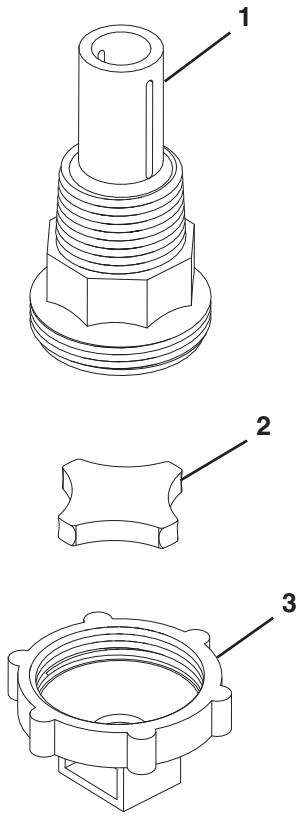
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PIPELINE ACCESSORIES



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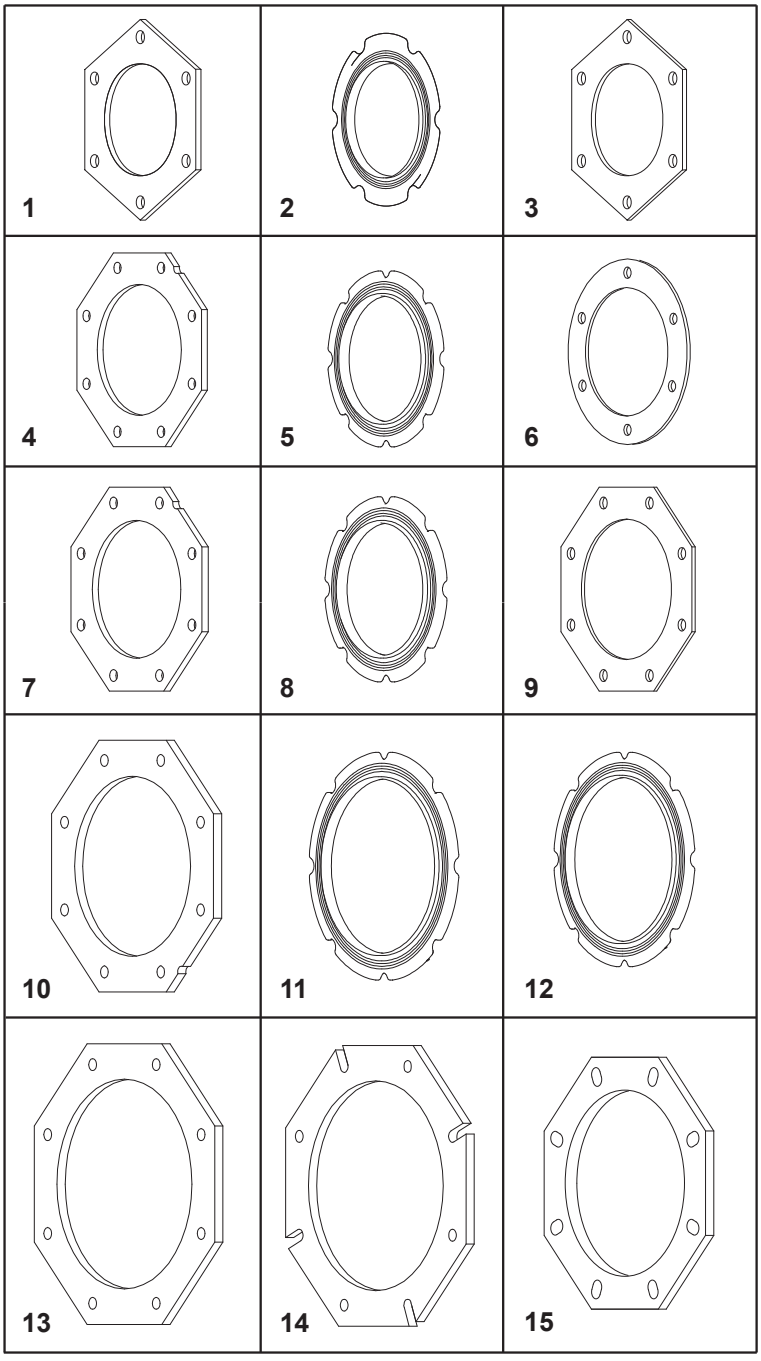
MODEL 8120



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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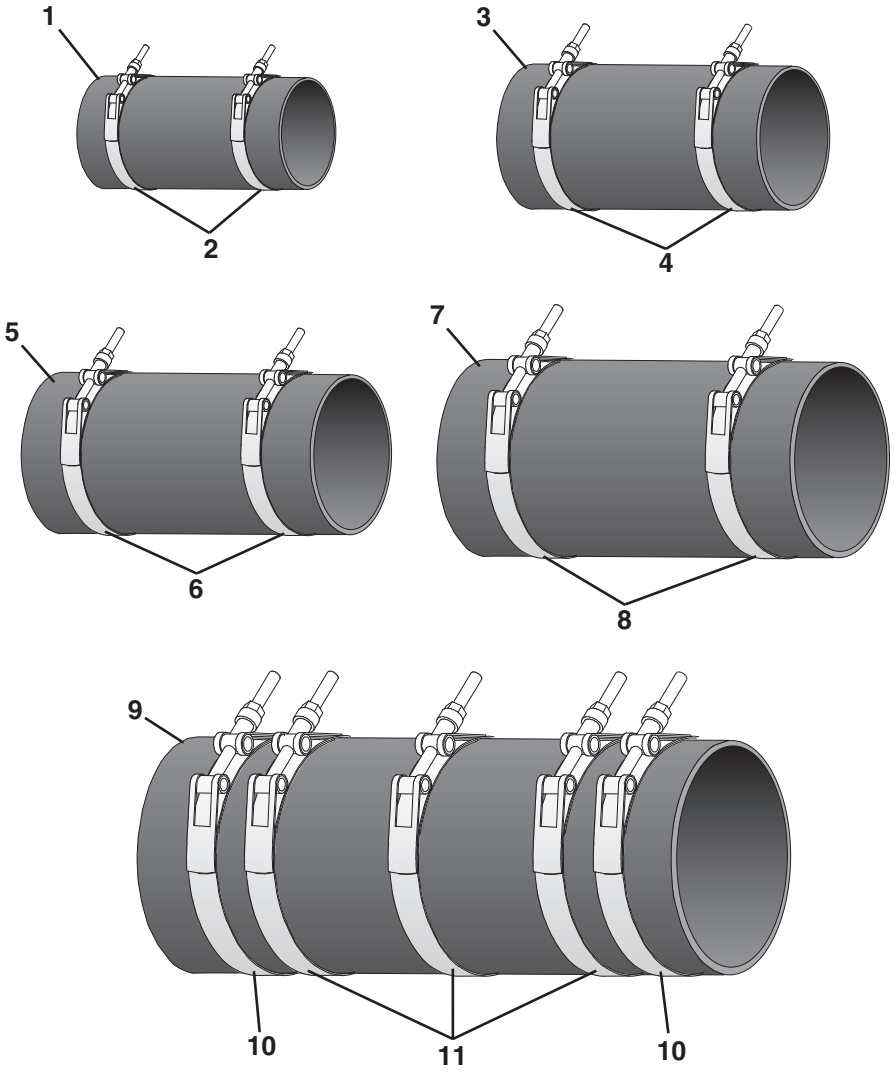
MODEL 8120



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

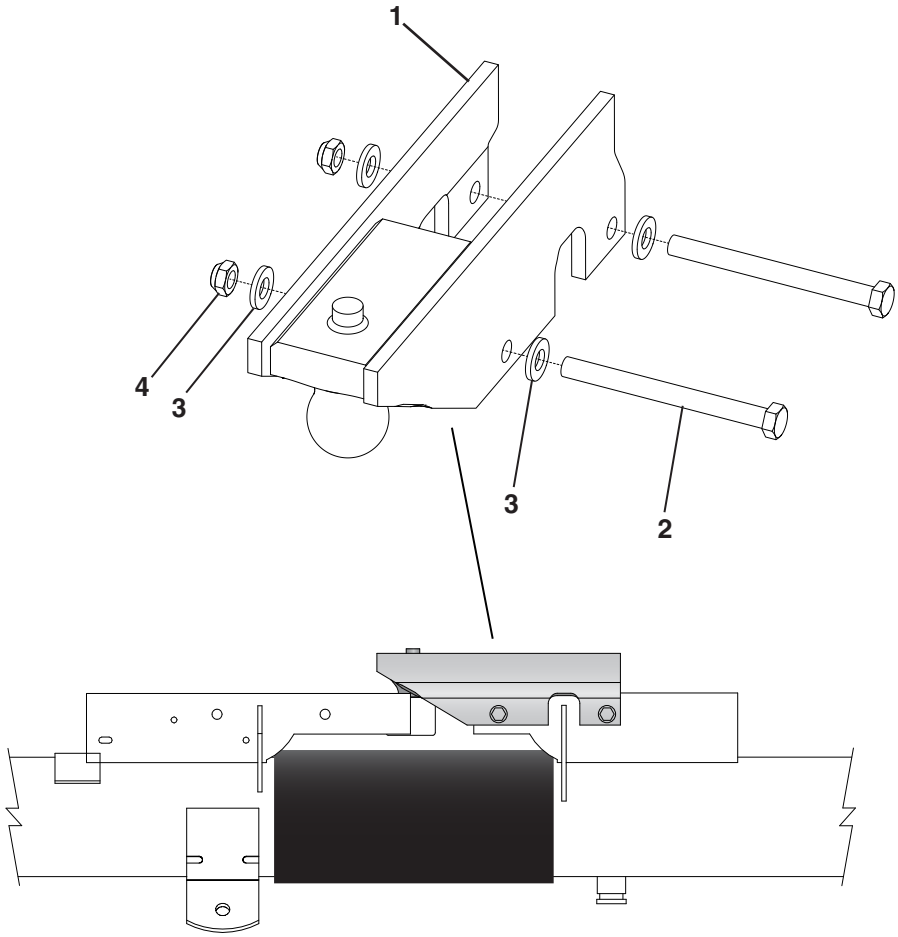


ITEM	DESCRIPTION	PART #
1	5” Flex Hose	0996080
2	5” Flex Joint Clamp	0995199
3	6" Flex Hose	0991187
4	6" Flex Joint Clamp	0991186
5	6-5/8" Flex Hose	1800318
	6-5/8" Flex Boot - Rough Ground	0996389
6	6-5/8" Flex Joint Clamp	0991087
7	8-5/8" Flex Hose	0994520
	8-5/8" Flex Boot - Rough Ground	0996390
8	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

Universal Linear - Effective 1-18

Description	Rev. #	Pg. #
Model 8000P		
6-5/8" Pipe - 30"[76.2cm], 60"[152.4cm] & 108"[274.3cm] Coupler Spacing		
Truss Package Locations	11-04	12-4
Truss Angle Packages	11-04	12-5
Pipe/Truss Rod Locations	11-04	12-6
Pipes/Truss Rods	08-18	12-7
Sprinkler Coupling Locations	11-04	12-8
Sprinkler Coupling Location Details	11-04	12-9
Assembly Details	11-04	12-10
8-5/8" Pipe - 30"[76.2cm], 60"[152.4cm] & 108"[274.3cm] Coupler Spacing		
Truss Package Locations	11-04	12-12
Truss Angle Packages	11-04	12-13
Pipe/Truss Rod Locations	11-04	12-14
Pipes/Truss Rods	08-18	12-15
Sprinkler Coupling Locations	11-04	12-16
Sprinkler Coupling Location Details	11-04	12-17
Assembly Details	11-04	12-18
Transition Details Model 8000P	08-18	12-19
Model 8120P		
6-5/8" Pipe - 75.5"[191.8cm] Coupler Spacing		
Truss Package Locations	08-05	12-22
Truss Angle Packages	08-05	12-23
Pipe/Truss Rod Locations	08-05	12-24
Pipes/Truss Rods	08-18	12-25
Sprinkler Coupling Locations	11-04	12-26
Sprinkler Coupling Location Details	11-04	12-27
38" Spacing Sprinkler Coupling Locations - SPECIAL ORDER ONLY	11-04	12-28
38" Spacing Sprinkler Coupling Location Details - SPECIAL ORDER ONLY	11-04	12-29
Assembly Details	11-04	12-30
8-5/8" Pipe - 75.5"[191.8cm] Coupler Spacing		
Truss Package Locations	08-05	12-32
Truss Angle Packages	08-05	12-33
Pipe/Truss Rod Locations	08-05	12-34
Pipes/Truss Rods	08-18	12-35
Sprinkler Coupling Locations	11-04	12-36
Sprinkler Coupling Location Details	11-04	12-37

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Description	Rev. #	Pg. #
38" Spacing Sprinkler Coupling Locations - SPECIAL ORDER ONLY	11-04	12-38
38" Spacing Sprinkler Coupling Location Details - SPECIAL ORDER ONLY	11-04	12-39
Assembly Details	11-04	12-40
Transition Details Model 8120P	08-18	12-41

MODEL 8000P

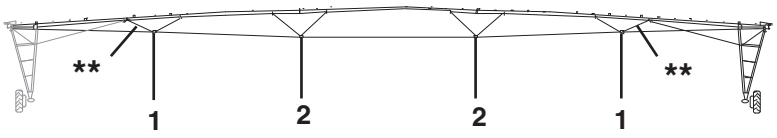
ADD & FREESTANDING PolySpan®
6-5/8" PIPE
30"[76.2cm], 60" [152.4cm] & 108"[274.3cm]
COUPLER SPACING



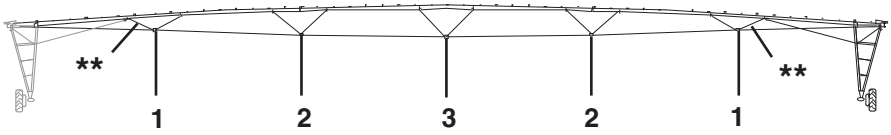
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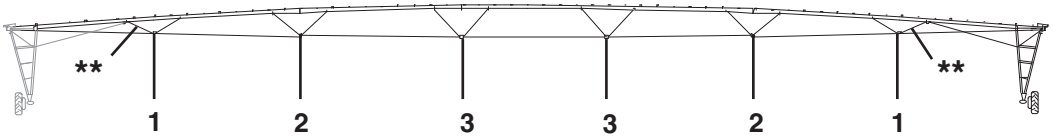
115' Span
[35.05m]



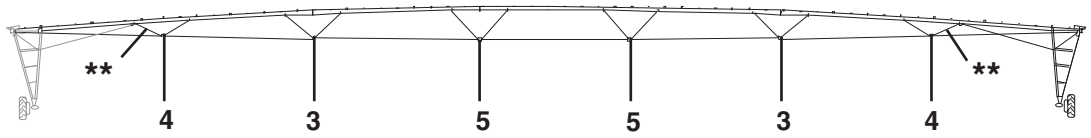
135' & 140' Span
[41.15m] & [42.67m]



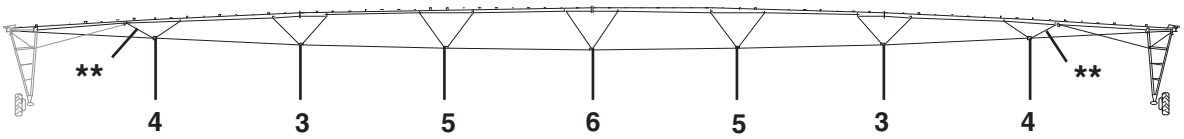
160' Span
[48.77m]



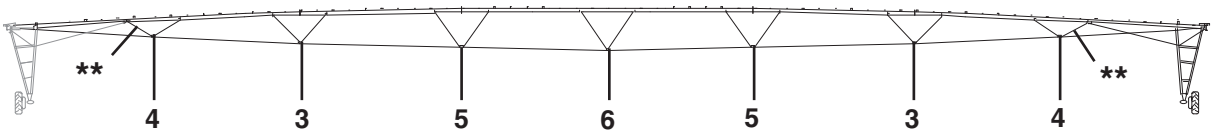
165' Freestanding Span Only
[50.29m]



180' Span
[54.86m]



185' & 187' Span
[56.39m] & [57.00m]

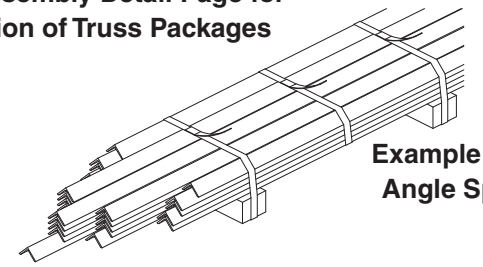


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

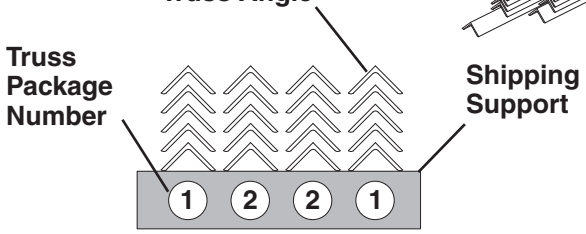
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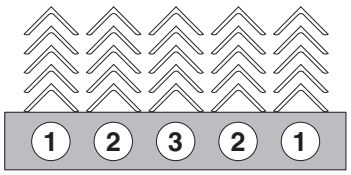
Reference Assembly Detail Page for Exact Location of Truss Packages



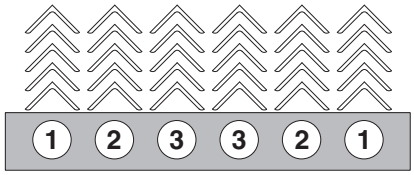
Example of 135' Truss Angle Span Packing



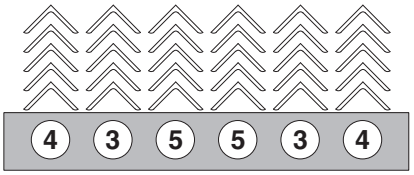
115'[35.05m] Truss Angle Span Pack (KA09116)



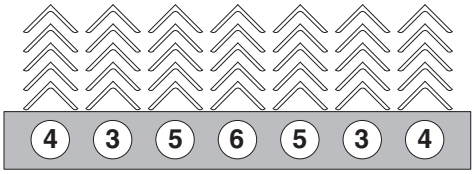
135'[41.15m] & 140'[42.67m] Truss Angle Span Pack (KA09023)



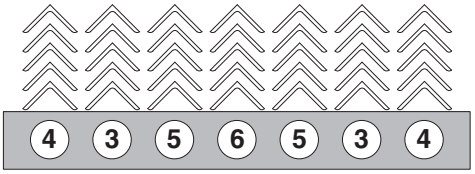
160'[48.77m] Truss Angle Span Pack (KA09024)



165'[50.29m] Truss Angle Span Pack (KA09050)



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



185'[56.39m] & 187'[57.00m] 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.

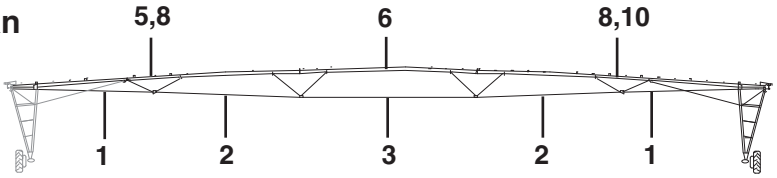
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
1	9360046**	58.42" [148.4cm]	9360047	44.69" [113.5cm]
	9360073	55.38" [140.7cm]	-	-
2	9360048	72.97" [185.3cm]	9360049	76.44" [194.2cm]
3	9360050	82.78" [210.3cm]	9360051	92.69" [235.4cm]
4	9360052**	61.68" [156.7cm]	9360053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

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

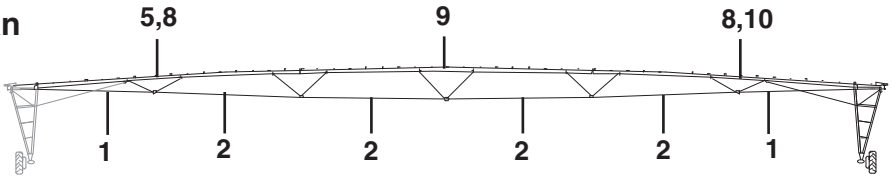
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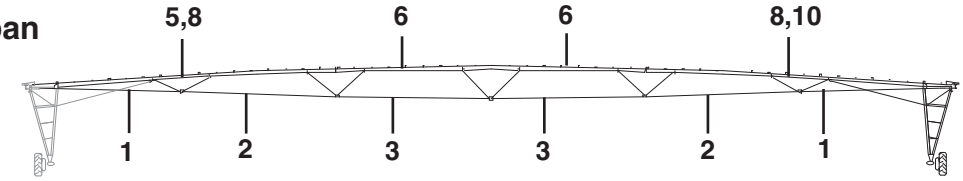
115' Span
[35.05m]



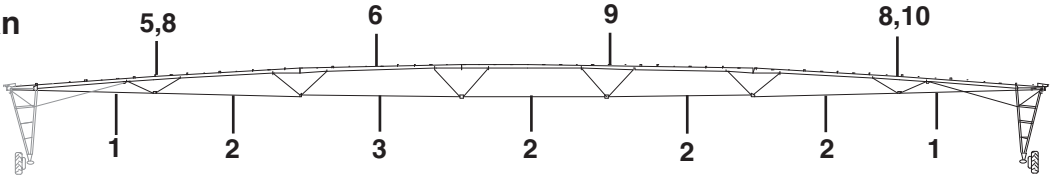
135' Span
[41.15m]



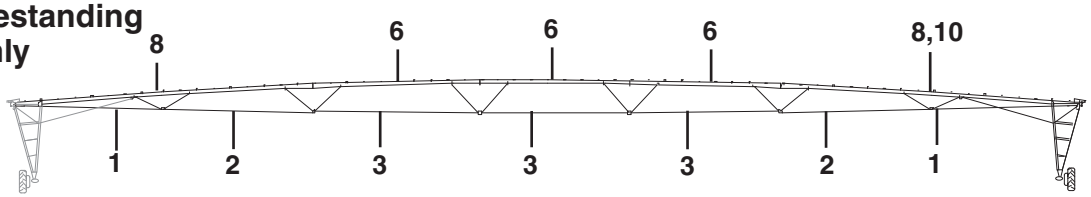
140' Span
[42.67m]



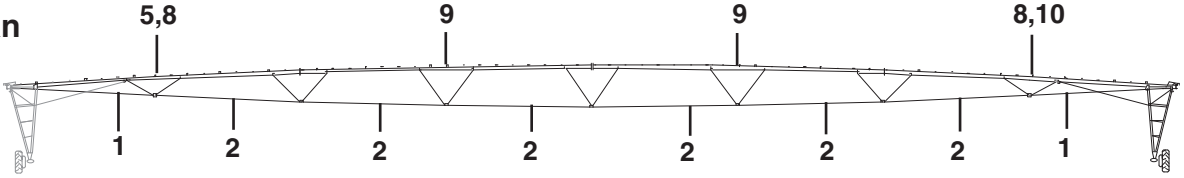
160' Span
[48.77m]



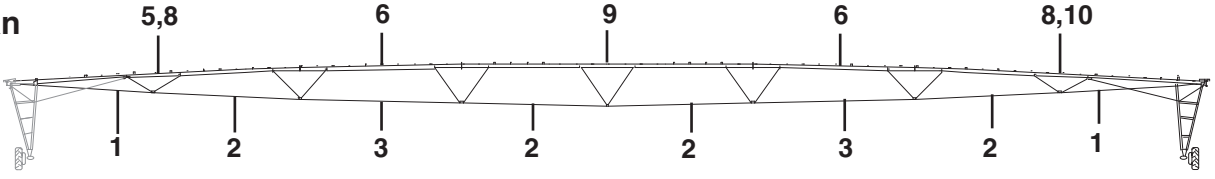
165' Freestanding Span Only
[50.29m]



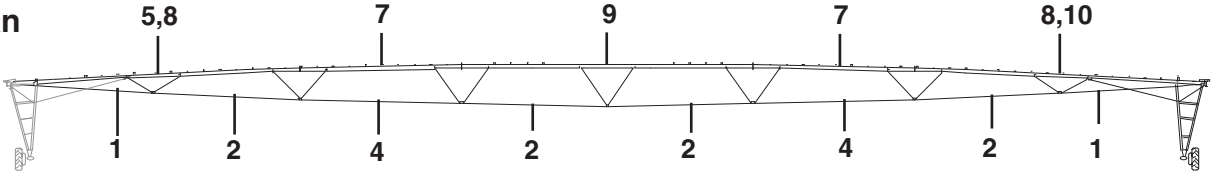
180' Span
[54.86m]



185' Span
[56.39m]



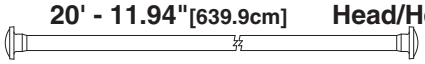
187' Span
[57.00m]



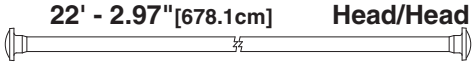
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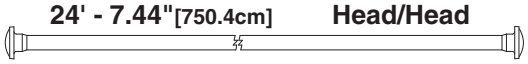
1 **20' - 11.94"[639.9cm] Head/Head Yellow**



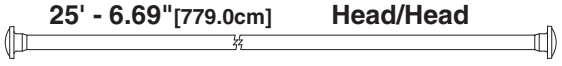
2 **22' - 2.97"[678.1cm] Head/Head No Color**



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



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



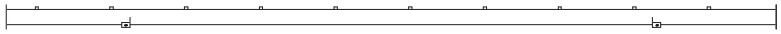
5 **45' - 1.88"[1376.4cm]**



6 **24' - 10.00"[756.9cm]**



7 **25' - 9.25"[785.5cm]**



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



9 **44' - 10.75"[1368.4cm]**



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



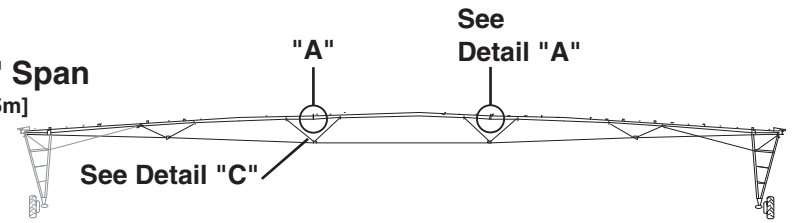
ITEM	DESCRIPTION	Part #	
1	3/4" Tower Truss Rod (20' - 11.94")	9360060	
2	3/4" Standard Intermediate Truss Rod (22' - 2.97")	9360061	
3	3/4" Intermediate Truss Rod (24' - 7.44")	9360062	
4	3/4" Intermediate Truss Rod (25' - 6.69")	9360063	
		Eff. 01-06 108" Spacing	Eff. 08-05 60" Spacing
5	Swivel Pipe	9362683	9362467
6	25' Intermediate Pipe	9362677	9362471
7	26' Intermediate Pipe	-	9362475
8	Fixed Pipe	9362685	9362469
9	45' Intermediate Pipe	9362679	9362473
10	Last Pipe	9362687	9362477

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

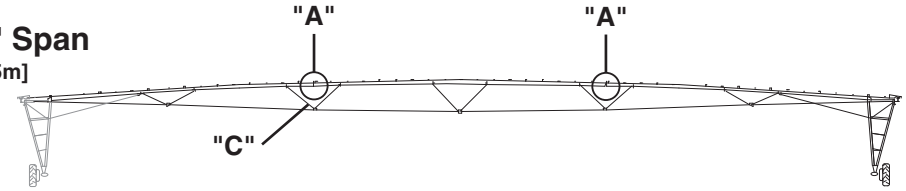
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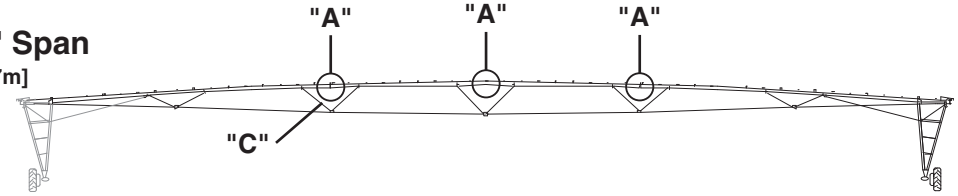
115' Span
[35.05m]



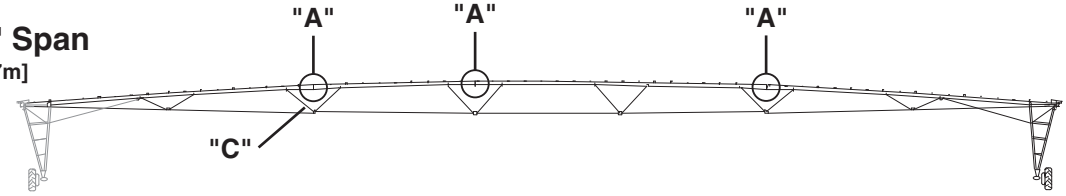
135' Span
[41.15m]



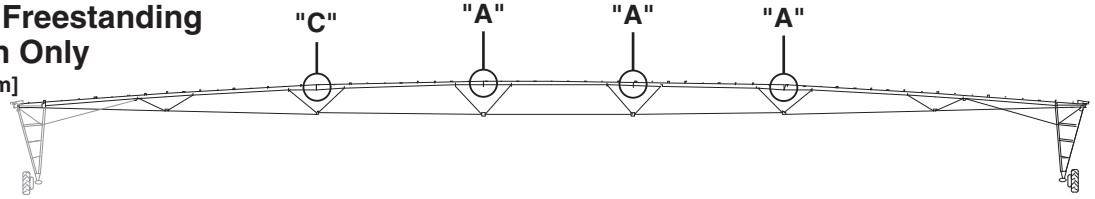
140' Span
[42.67m]



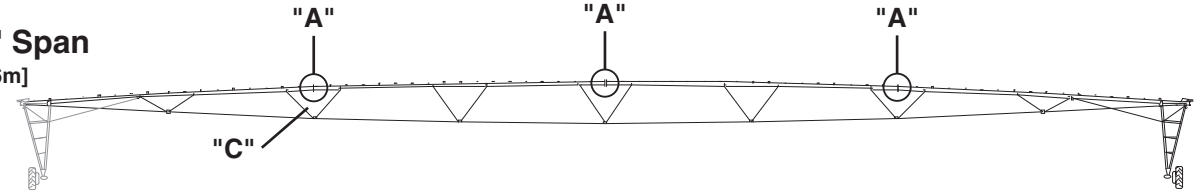
160' Span
[48.77m]



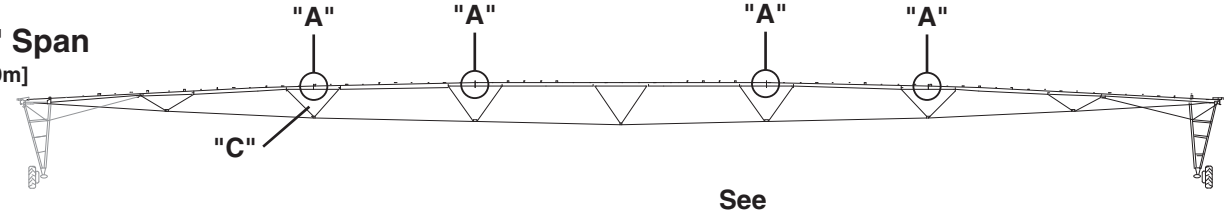
165' Freestanding Span Only
[50.29m]



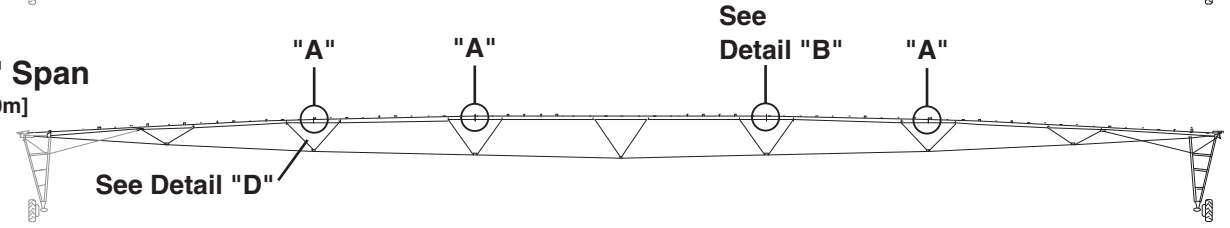
180' Span
[54.86m]



185' Span
[56.39m]



187' Span
[57.00m]

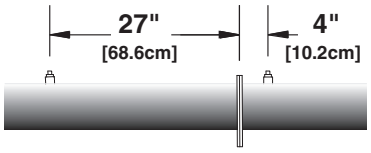


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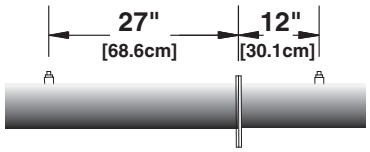
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30" Spacing Details

Detail "A"

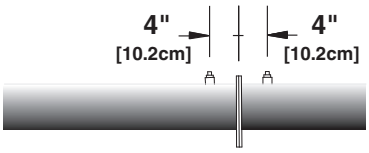


Detail "B"



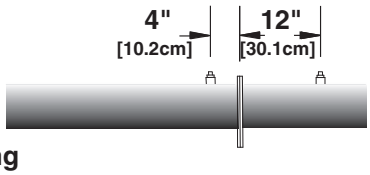
Detail "C"

Freestanding Span Only



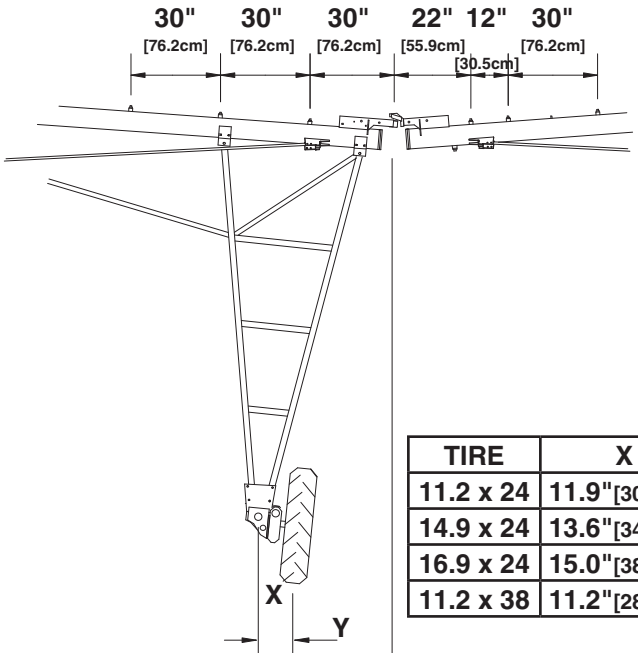
Detail "D"

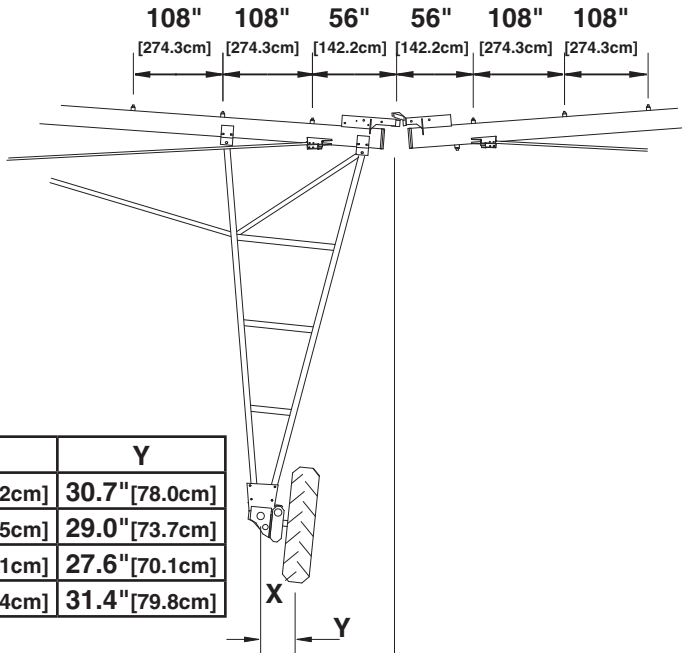
187' Freestanding Span Only



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.



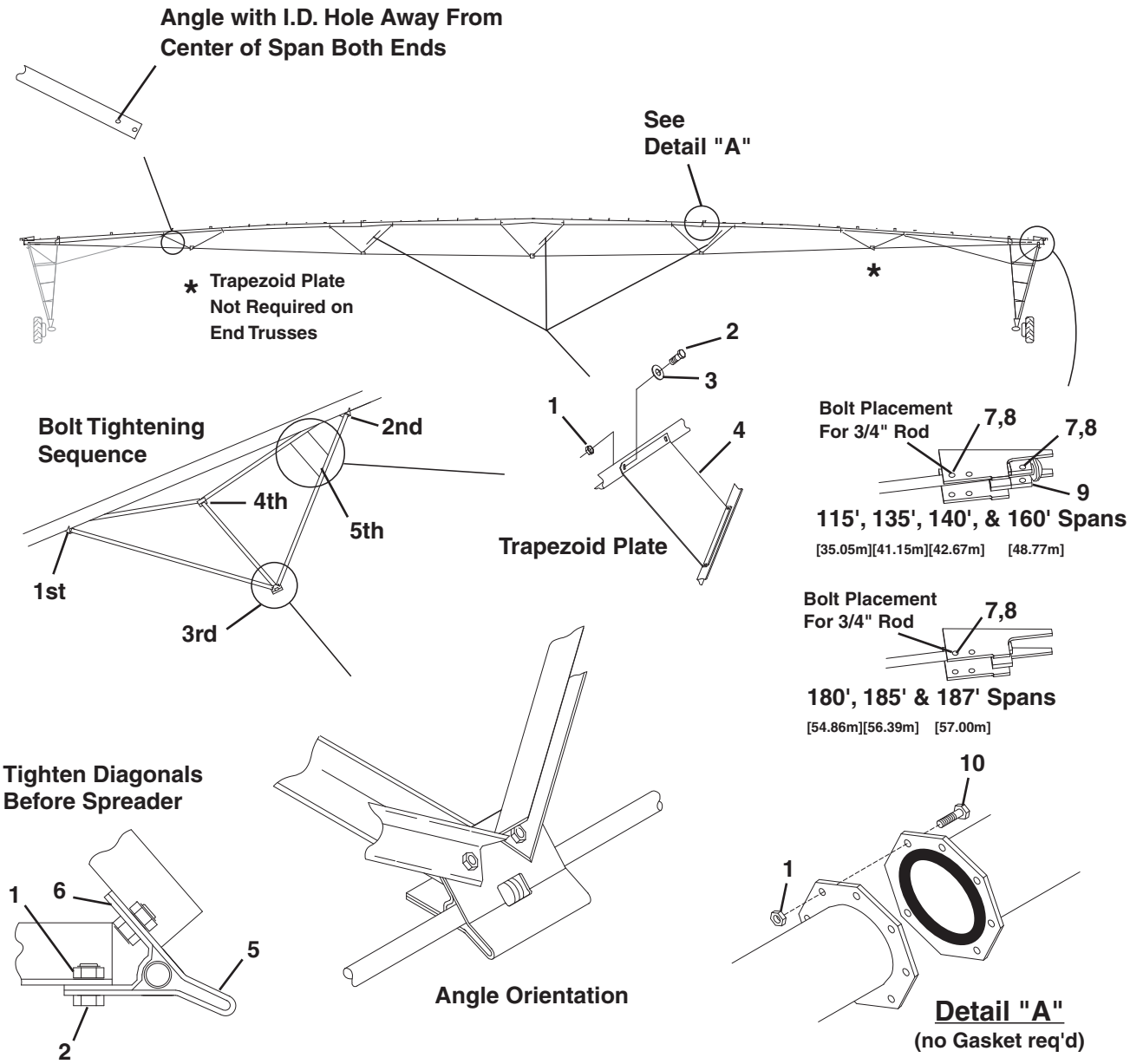


TIRE	X	Y
11.2 x 24	11.9"[30.2cm]	30.7"[78.0cm]
14.9 x 24	13.6"[34.5cm]	29.0"[73.7cm]
16.9 x 24	15.0"[38.1cm]	27.6"[70.1cm]
11.2 x 38	11.2"[28.4cm]	31.4"[79.8cm]

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

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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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MODEL 8000P

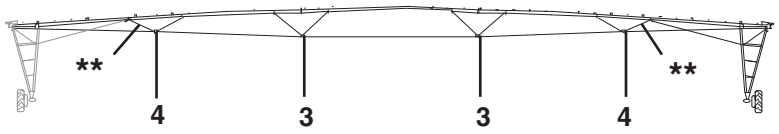
ADD & FREESTANDING PolySpan®
8-5/8" PIPE
30"[76.2cm], 60"[152.4cm] & 108"[274.3cm]
COUPLER SPACING



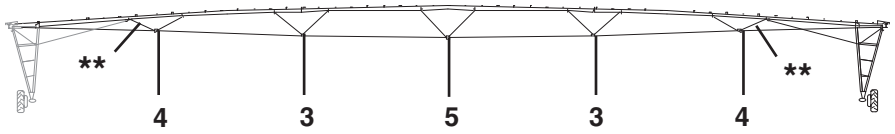
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PolySpan® MODEL 8000P

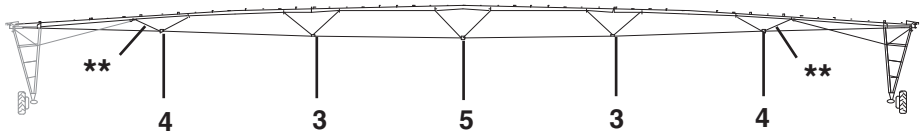
115' Span
[35.05m]



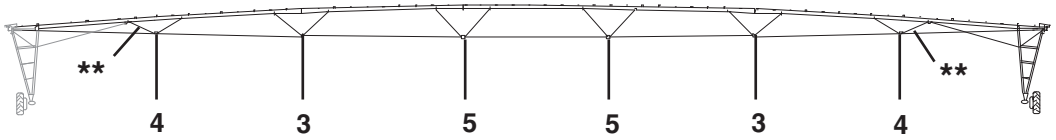
135' Span
[41.15m]



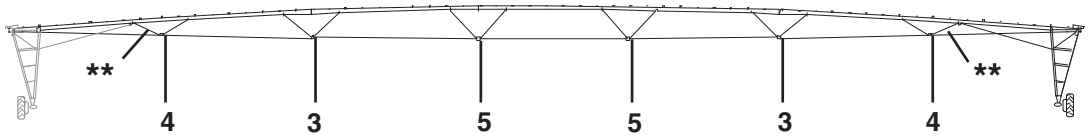
140' Span
[42.67m]



160' Span
[48.77m]



165' Freestanding Span Only
[50.29m]

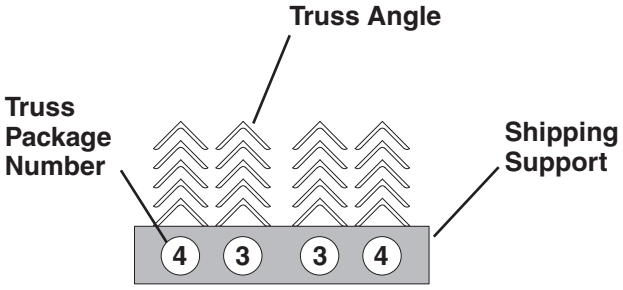


****NOTE: This is the location of the longer diagonal with the I.D. hole.**

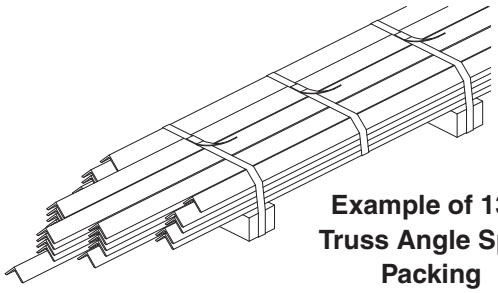
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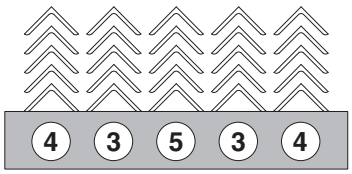
Reference Assembly Detail Page for Exact Location of Truss Packages



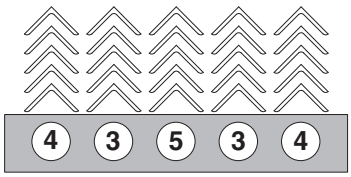
115'[35.05m] Truss Angle Span Pack (KA09117)



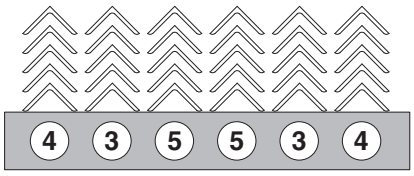
Example of 135' Truss Angle Span Packing



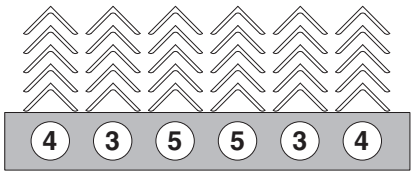
135'[41.15m] Truss Angle Span Pack (KA09047)



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



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



165'[50.29m] Truss Angle Span Pack (KA09050)

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

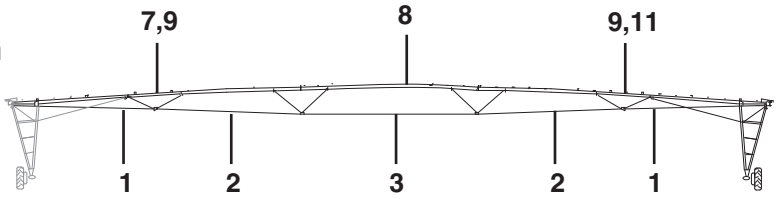
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78" [210.3cm]	9360051	92.69" [235.4cm]
4	9360052**	61.68" [156.7cm]	9360053	52.25" [132.7cm]
	9360074	58.81" [148.6cm]	-	-
5	9360054	97.25" [247.0cm]	9360055	115.03" [292.2cm]

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

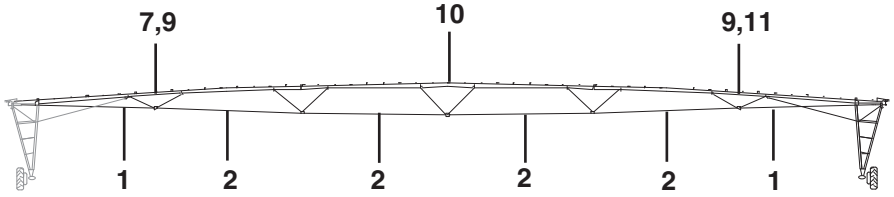
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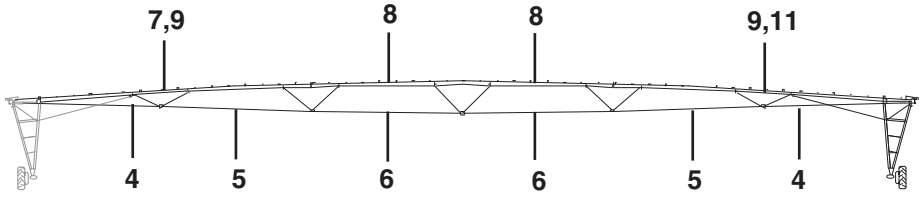
115' Span
[35.05m]



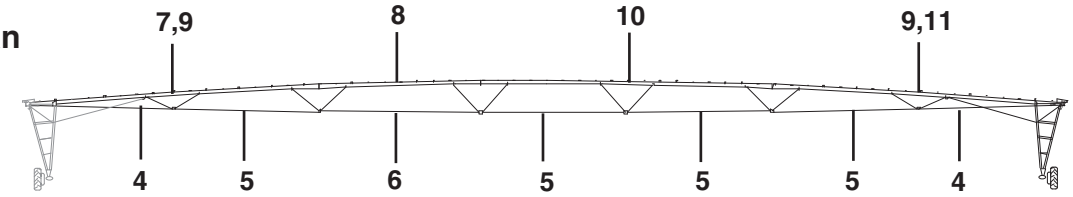
135' Span
[41.15m]



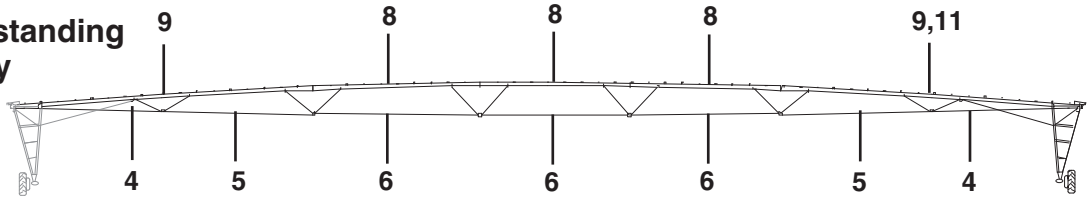
140' Span
[42.67m]



160' Span
[48.77m]



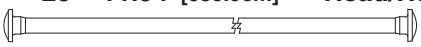
165' Freestanding Span Only
[50.29m]



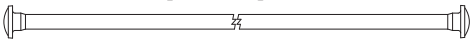
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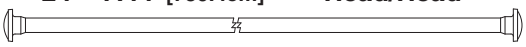
1 **20' - 11.94"[639.9cm] Head/Head Yellow**



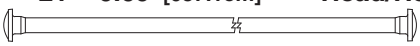
2 **22' - 2.97"[678.1cm] Head/Head No Color**



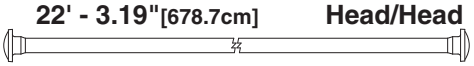
3 **24' - 7.44"[750.4cm] Head/Head Blue**



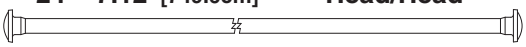
4 **21' - 6.69"[657.1cm] Head/Head Orange**



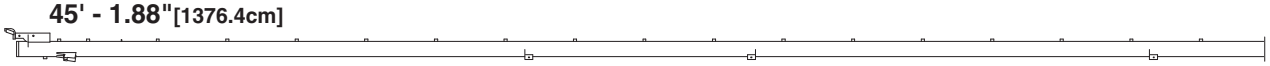
5 **22' - 3.19"[678.7cm] Head/Head Red**



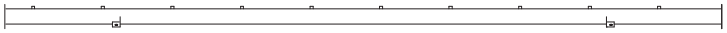
6 **24' - 7.12"[749.6cm] Head/Head Green**



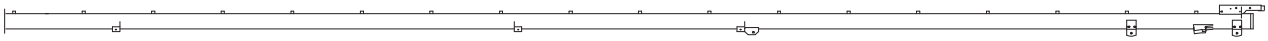
7 **45' - 1.88"[1376.4cm]**



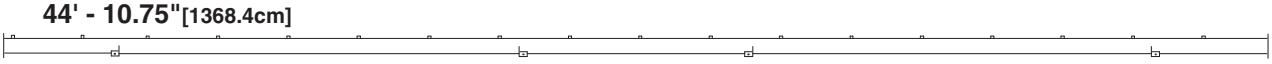
8 **24' - 10.00"[756.9cm]**



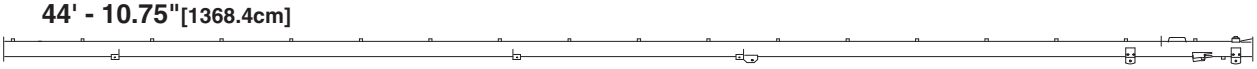
9 **45' - 1.88"[1376.4cm]**



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



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



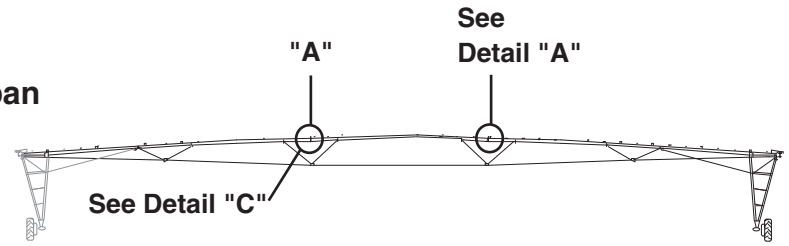
ITEM	DESCRIPTION	Part #	
1	3/4" Tower Truss Rod (20' - 11.94")	9360060	
2	3/4" Standard Intermediate Truss Rod (22' - 2.97")	9360061	
3	3/4" Intermediate Truss Rod (24' - 7.44")	9360062	
4	13/16" Tower Truss Rod (21' - 0")	9360064	
5	13/16" Standard Intermediate Truss Rod (22" - 3/19")	9360065	
6	13/16" Intermediate Truss Rod (24' - 7.12")	9360066	
		Eff. 01-06 108" Spacing	Eff. 08-05 60" Spacing
7	Swivel Pipe (45'-1.88")[1376.4cm]	9362731	9362481
8	25' Intermediate Pipe (24'-10.00")[756.9cm]	9362725	9362487
9	Fixed Pipe (45'-1.88")[1376.4cm]	9362733	9362483
10	45' Intermediate Pipe (44'-10.75")[1368.4cm]	9362727	9362489
11	Transition Pipe (44'-10.75")[1368.4cm]	9362735	9362485

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

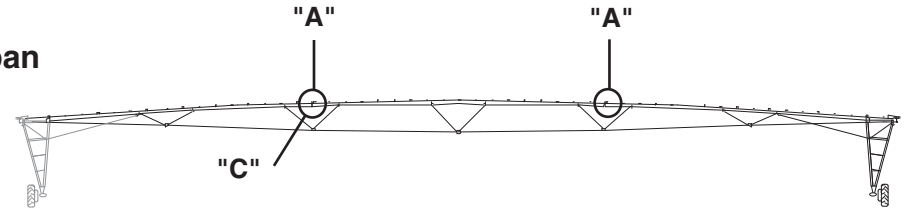
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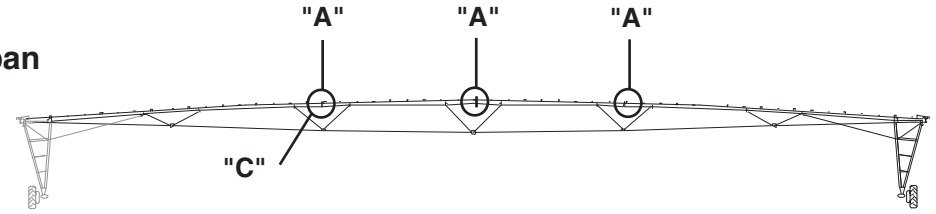
115' Span
[35.05m]



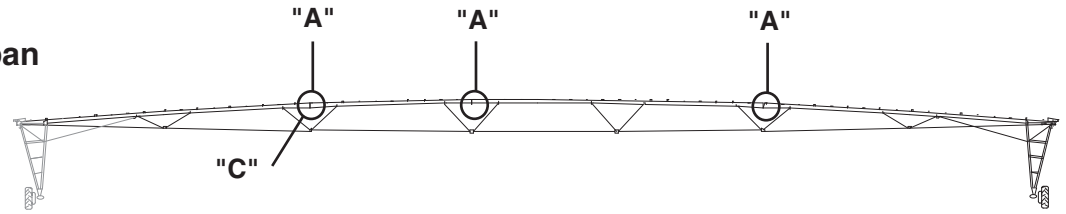
135' Span
[41.15m]



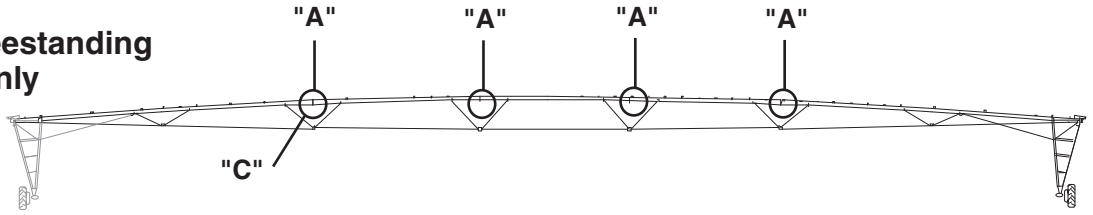
140' Span
[42.67m]



160' Span
[48.77m]



165' Freestanding Span Only
[50.29m]

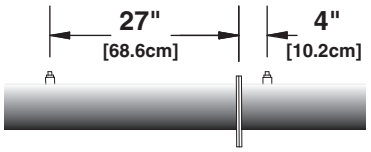


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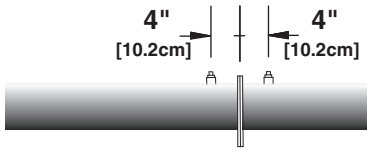
30" Spacing Details

Detail "A"



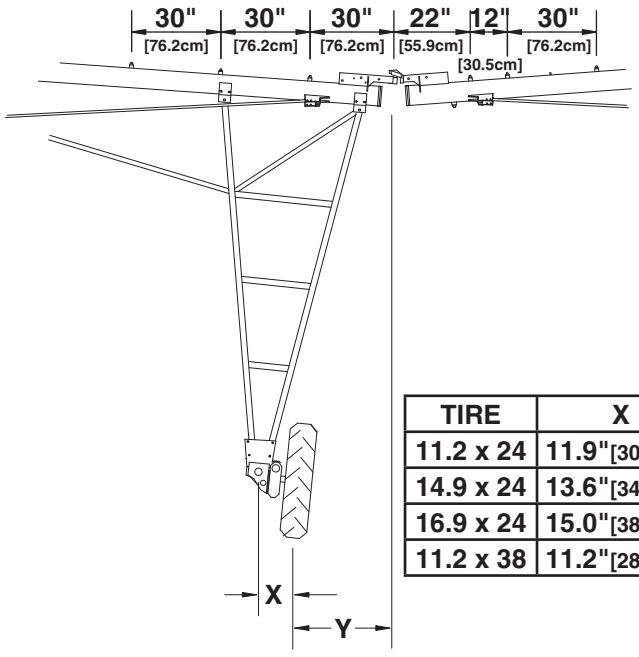
Detail "C"

Freestanding Span Only

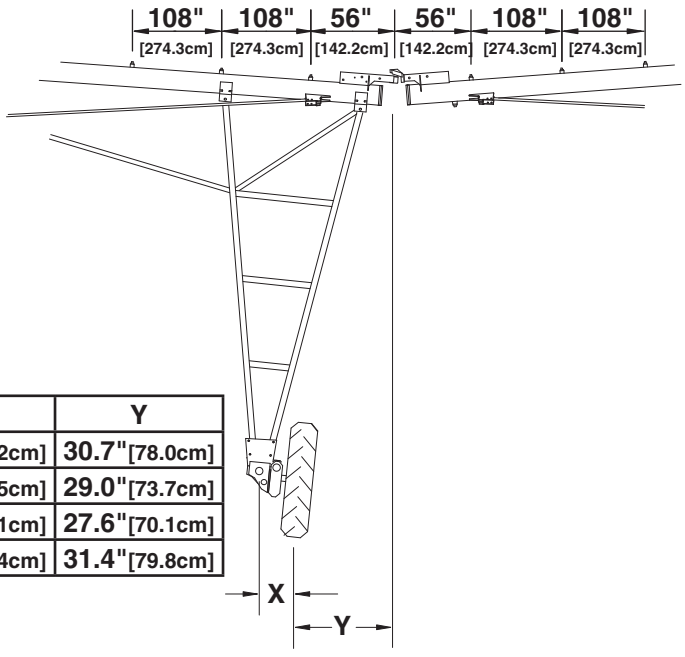


108" Spacing Detail

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



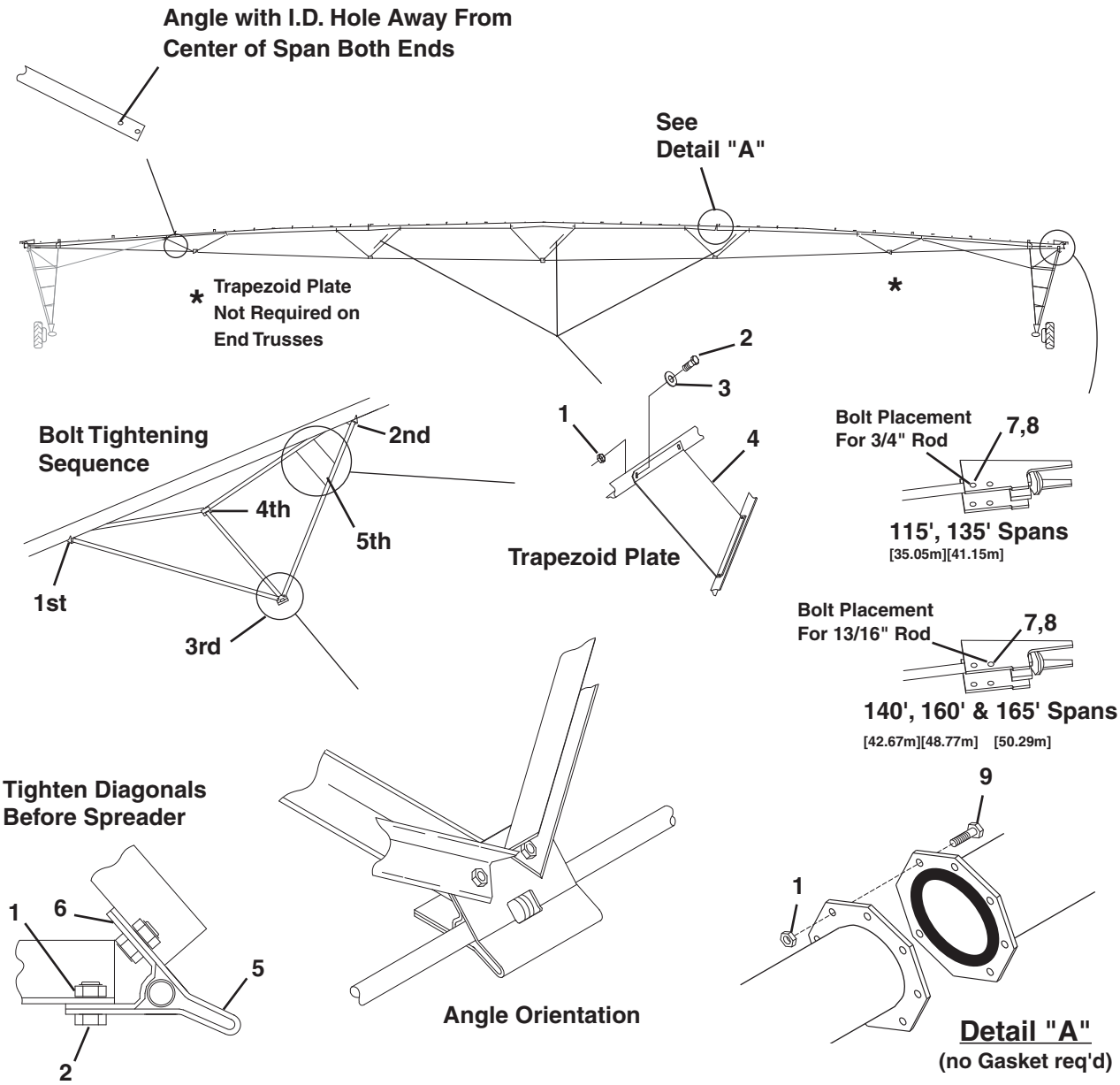
TIRE	X	Y
11.2 x 24	11.9"[30.2cm]	30.7"[78.0cm]
14.9 x 24	13.6"[34.5cm]	29.0"[73.7cm]
16.9 x 24	15.0"[38.1cm]	27.6"[70.1cm]
11.2 x 38	11.2"[28.4cm]	31.4"[79.8cm]



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

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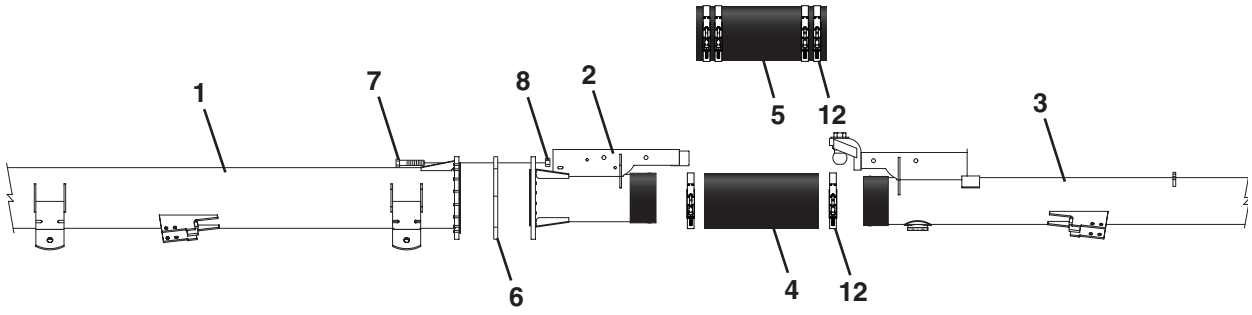
PolySpan® MODEL 8000P



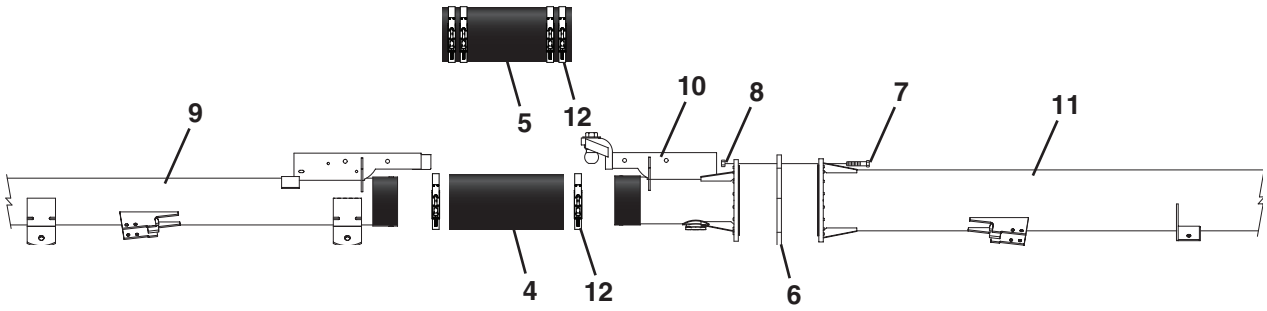
ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2" Cap Screw	0161024

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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. - 16" Long	0995628
5	Flex Boot, 7" I.D. - 20" Long - 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" Inlet Pipe	9361848
10	8-5/8" to 6-5/8" Reverse Transition Pipe	9362757
11	8-5/8" Pivot Pipe	9361864
12	7" Flex Joint Clamp	0995627

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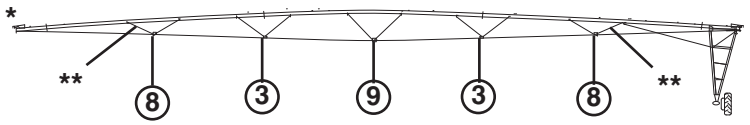
ADD & FREESTANDING PolySpan®
6-5/8" PIPE
75.5"[191.8cm]
COUPLER SPACING



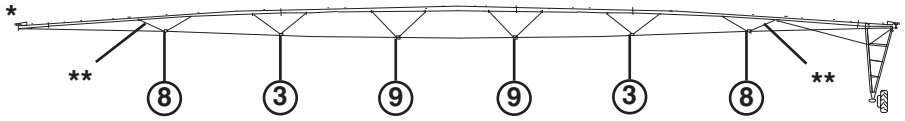
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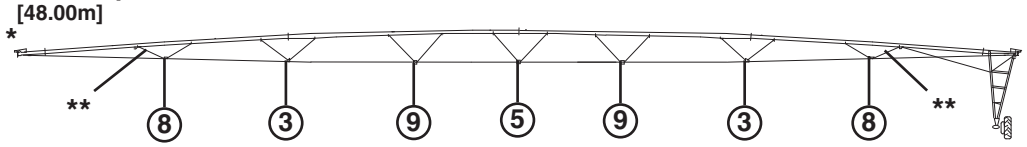
123.4' Span
[37.61m]



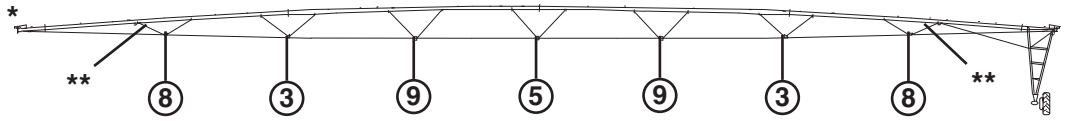
142.3' Span
[43.37m]



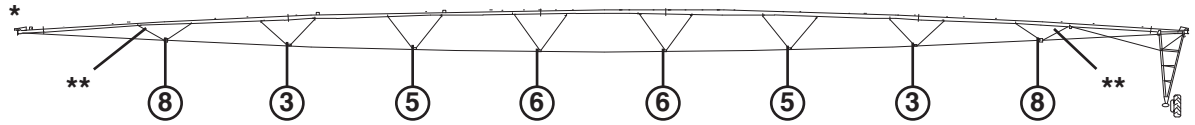
157.5' Span
[48.00m]



161.2' Span
[49.12m]



180' Span
[54.88m]



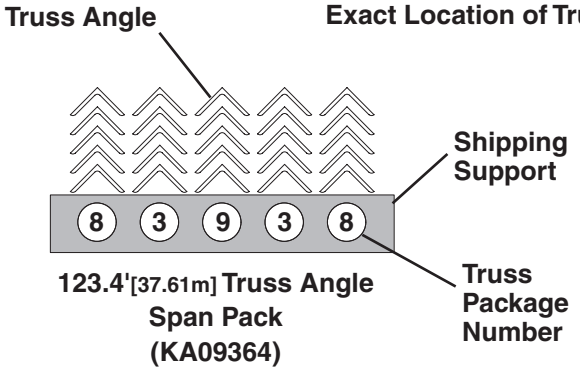
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

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

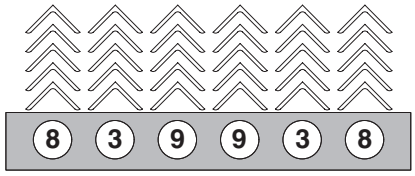
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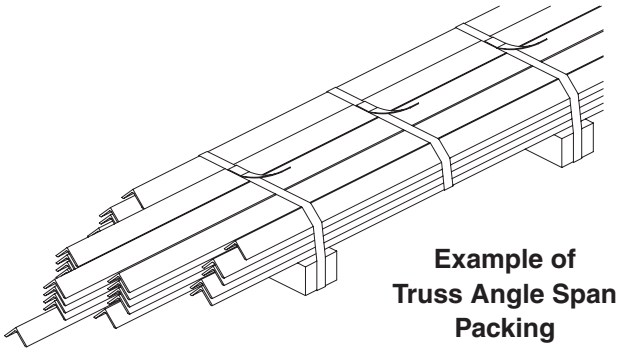
Reference Assembly Detail Page for Exact Location of Truss Packages



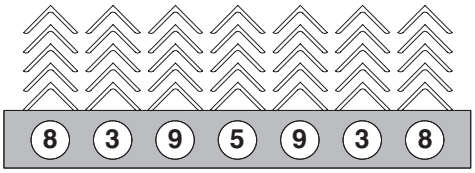
123.4'[37.61m] Truss Angle Span Pack (KA09364)



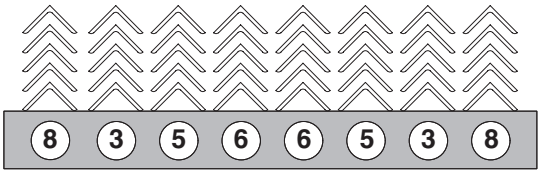
142.3'[43.37m] Truss Angle Span Pack (KA09283)



Example of Truss Angle Span Packing



157.5'[48.00m] & 161.2'[49.12m] Truss Angle Span Pack (KA09285)



180'[54.88m] 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.

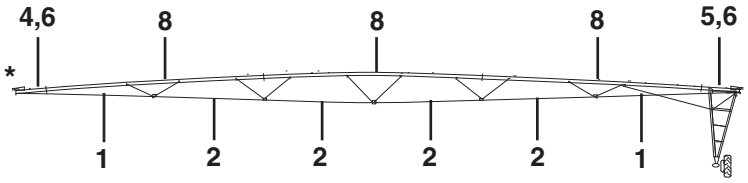
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78" [210.3cm]	9360051	92.69" [235.4cm]
5	9360054	97.25" [247.0cm]	9360055	115.03" [292.2cm]
6	9360056	102.56" [260.5cm]	9360057	122.94" [312.3cm]
8	9360735**	63.36" [160.9cm]	9360736	56.00" [142.2cm]
	9360734	60.67" [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.

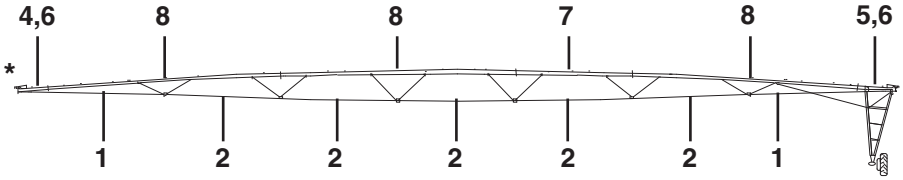
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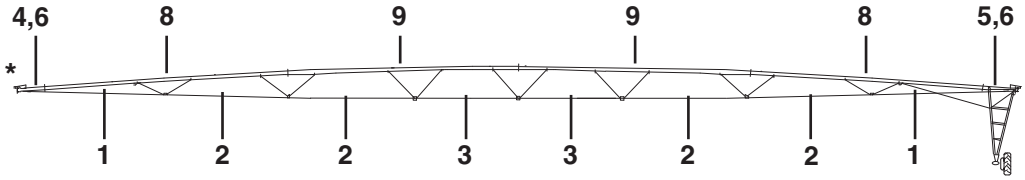
123.4' Span
[37.61m]



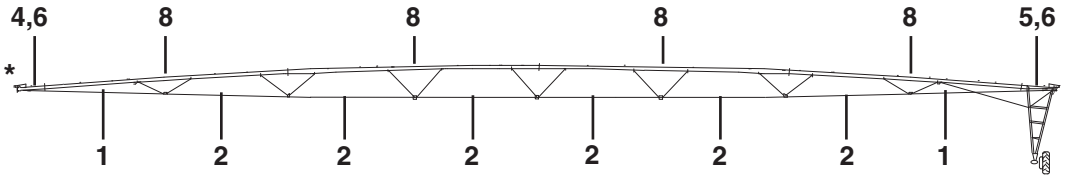
142.3' Span
[43.37m]



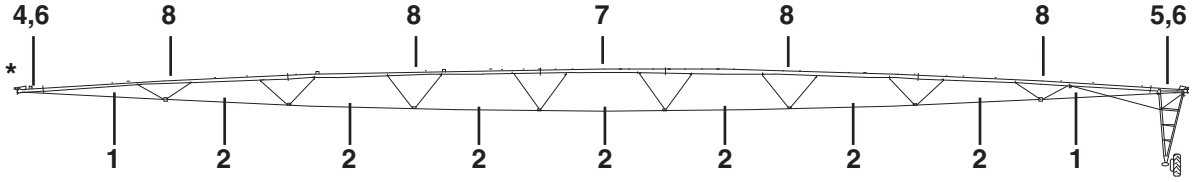
157.5' Span
[48.00m]



161.2' Span
[49.12m]



180' Span
[54.88m]

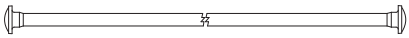


***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

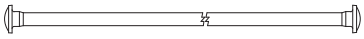
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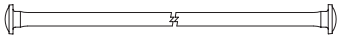
22' - 2.84"[677.8cm] Head/Head

1  **Purple**

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

2  **Gold**

16' - 10.56"[514.5cm]

3 

5' - 0.50"[153.7cm]

4 

4' - 9.28"[145.5cm]

5 

5' - 0.50"[153.7cm]

6 

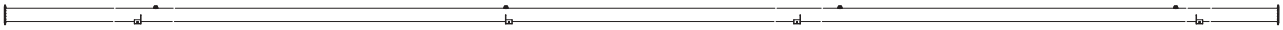
18' - 10.41"[575.1cm]

7 

37' - 9.00"[1150.6cm]

8 

35' - 11.25"[1095.4cm]

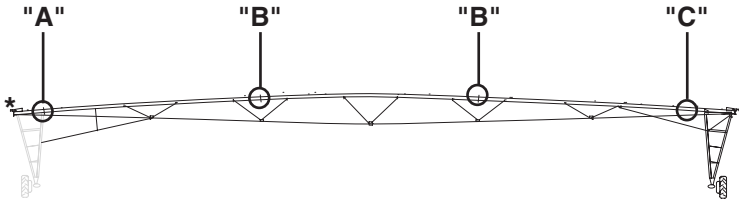
9 

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	Swivel Stub Pipe (5'-0.50")[153.7cm]	9362671
5	Last Stub Pipe (4'-9.28")[145.5cm]	9362673
6	Fixed Stub Pipe (5'-0.50")[153.7cm]	9362675
		75.5"[191.8cm]
7	19' Intermediate Pipe (18'-10.41")[575.1cm]	9362667
8	38' Intermediate Pipe (37'-9.00")[1150.6cm]	9362665
9	36' Intermediate Pipe (35'11.25")[1095.4cm]	9362713

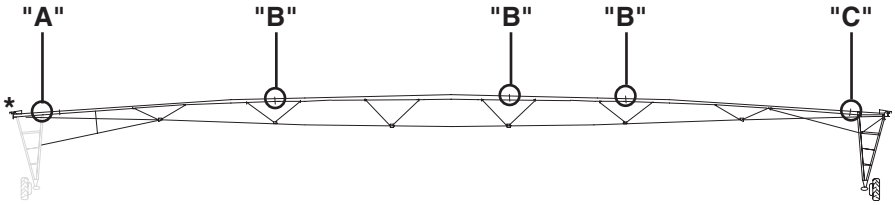
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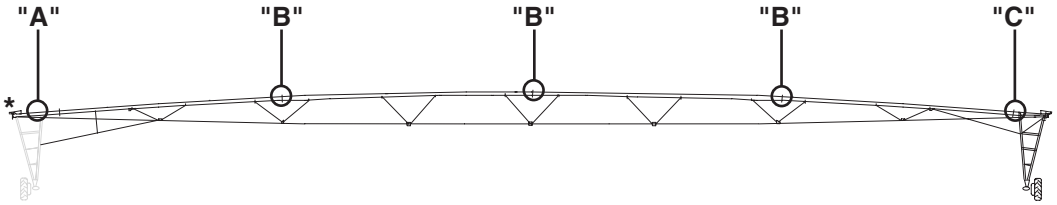
123.4' Span
[37.61m]



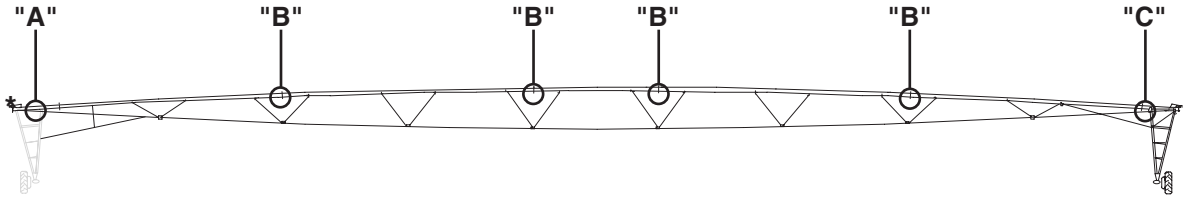
142.3' Span
[43.37m]



161.2' Span
[49.12m]



180' Span
[54.88m]

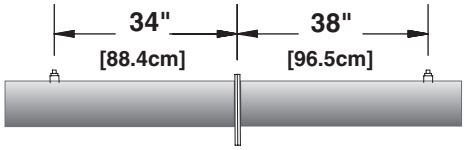


***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

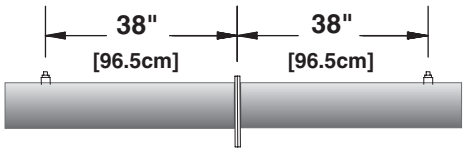
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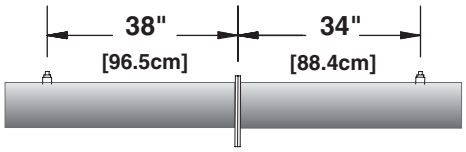
Detail "A"



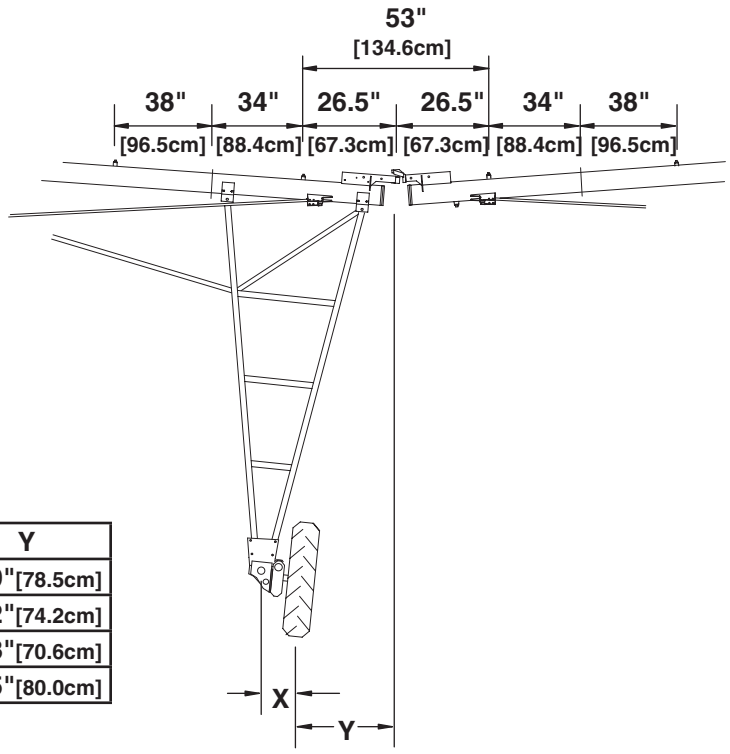
Detail "B"



Detail "C"







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.

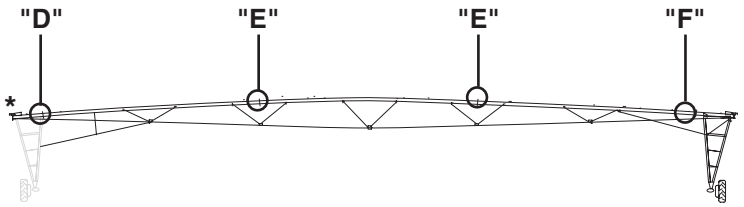
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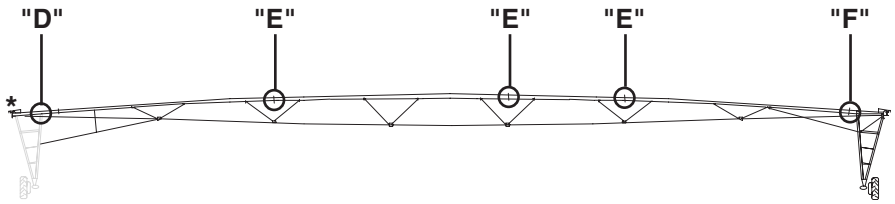
SPECIAL ORDER ONLY

(Contact Valley Customer Service)

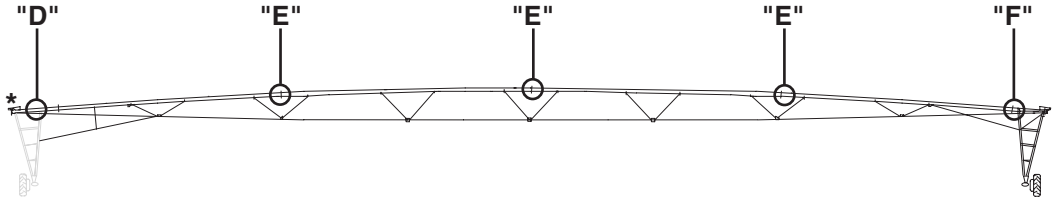
123.4' Span
[37.61m]



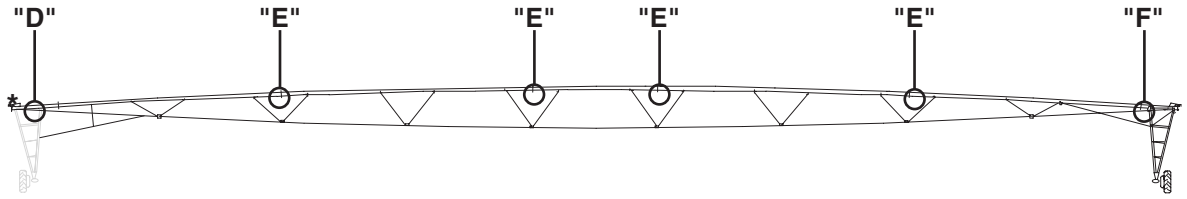
142.3' Span
[43.37m]



161.2' Span
[49.12m]



180' Span
[54.88m]



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

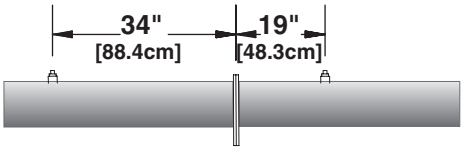
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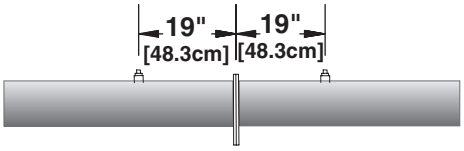
SPECIAL ORDER ONLY

(Contact Valley Customer Service)

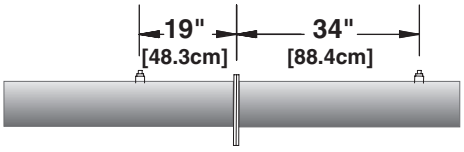
Detail "D"



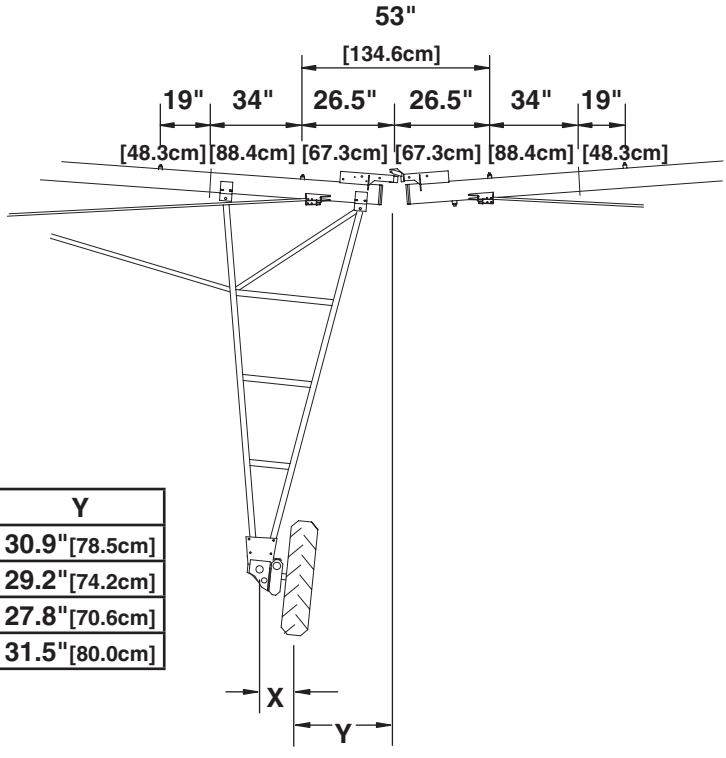
Detail "E"



Detail "F"





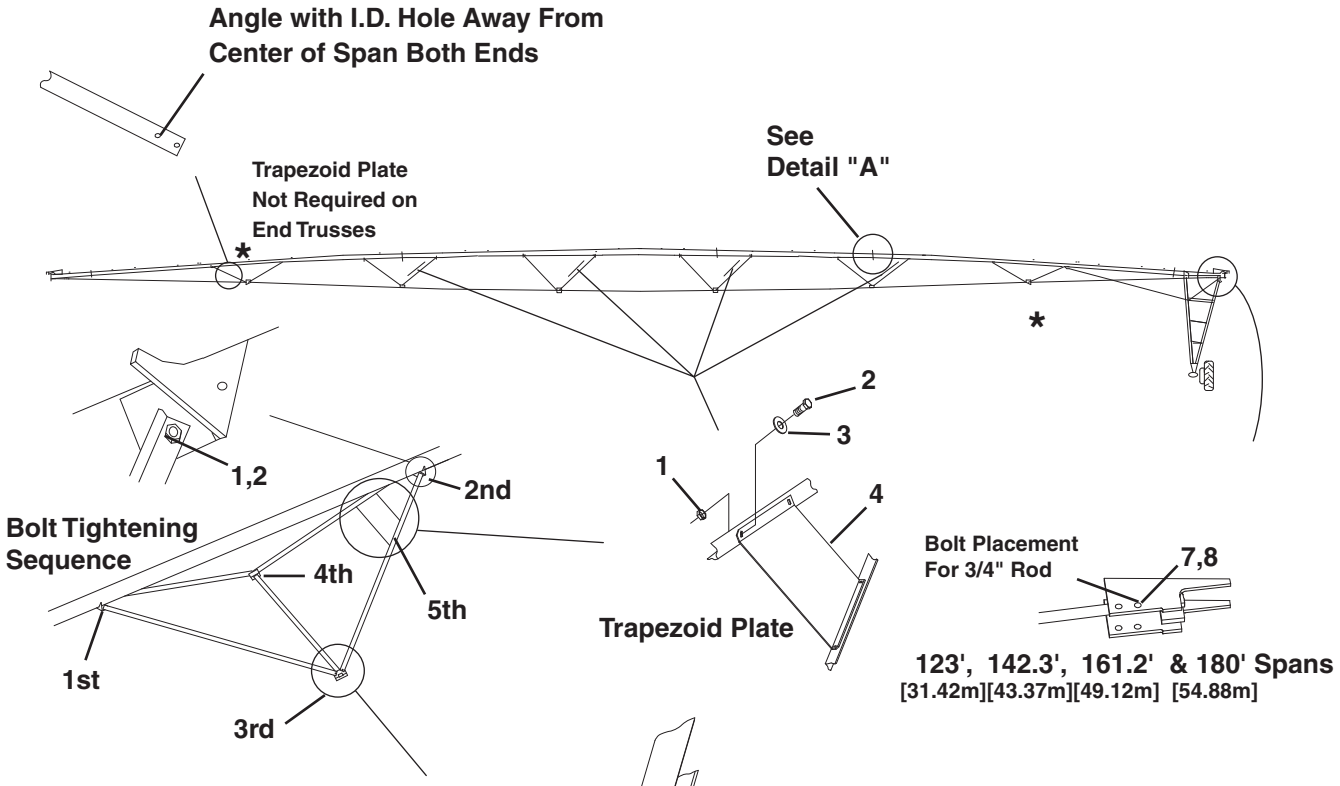


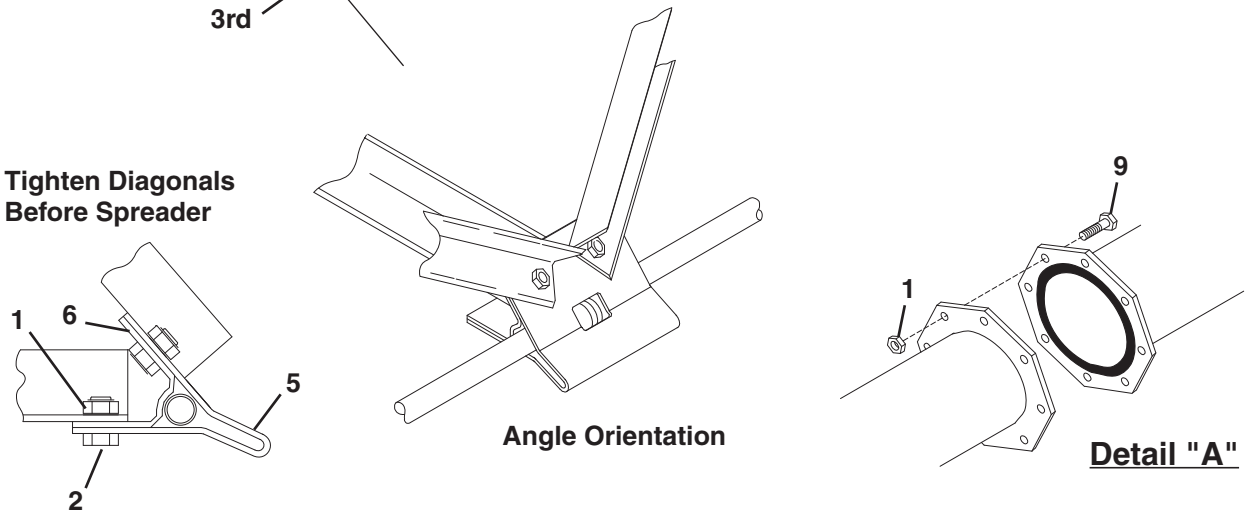
TIRE	X	Y
11.2 x 24	12.4"[31.5cm]	30.9"[78.5cm]
14.9 x 24	14.1"[35.8cm]	29.2"[74.2cm]
16.9 x 24	15.5"[39.4cm]	27.8"[70.6cm]
11.2 x 38	11.8"[30.0cm]	31.5"[80.0cm]

NOTE: The "Y" dimension can vary ±3.0"[76.2cm] 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

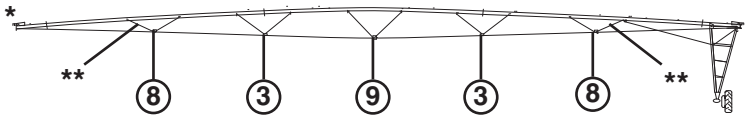
ADD & FREESTANDING PolySpan®
8-5/8" PIPE
75.5"[191.8cm]
COUPLER SPACING



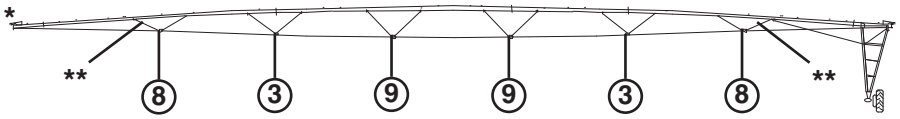
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PolySpan® MODEL 8120P

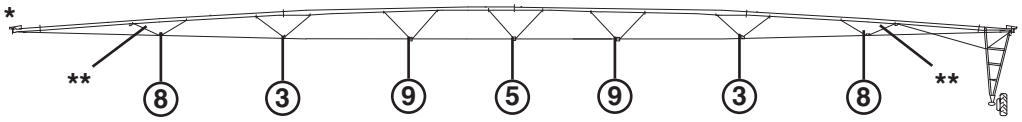
123.4' Span
[37.61m]



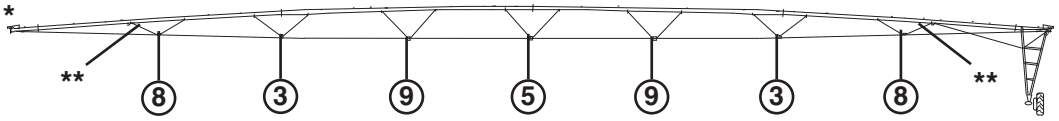
142.3' Span
[43.37m]



157.5' Span
[48.00m]



161.2' Span
[43.37m]



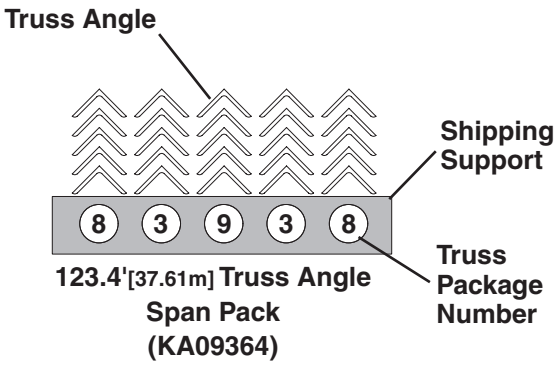
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

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

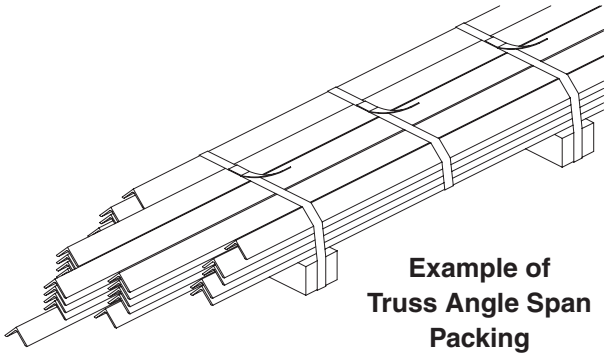
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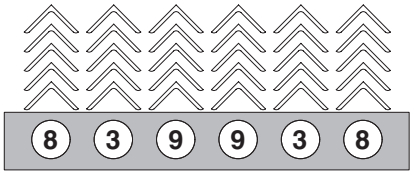
Reference Assembly Detail Page for Exact Location of Truss Packages



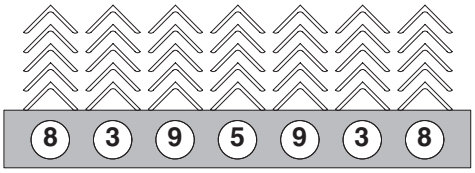
123.4'[37.61m] Truss Angle Span Pack (KA09364)



Example of Truss Angle Span Packing



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



157.5'[48.00m] & 161.2'[49.12m] Truss Angle Span Pack (KA09285)

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

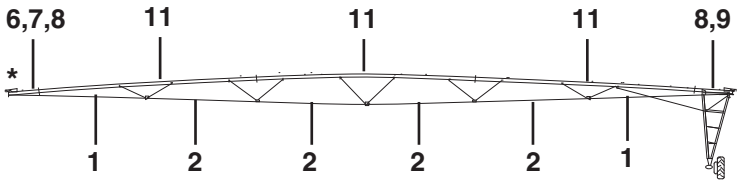
TRUSS PKG #	DIAGONAL		SPREADER	
	Part #	Overall Length	Part #	Overall Length
3	9360050	82.78" [210.3cm]	9360051	92.69" [235.4cm]
5	9360054	97.25" [247.0cm]	9360055	115.03" [292.2cm]
8	9360735**	63.36" [160.9cm]	9360736	56.00" [142.2cm]
	9360734	60.67" [154.1cm]		-
9	9360706	92.71" [235.5cm]	9360707	108.16"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

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

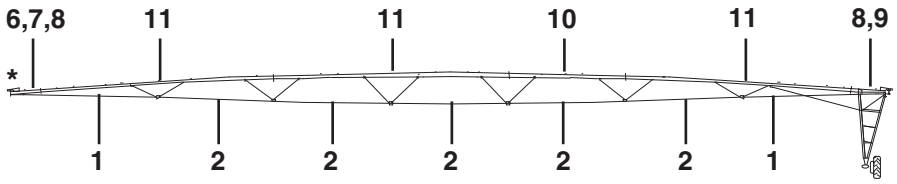
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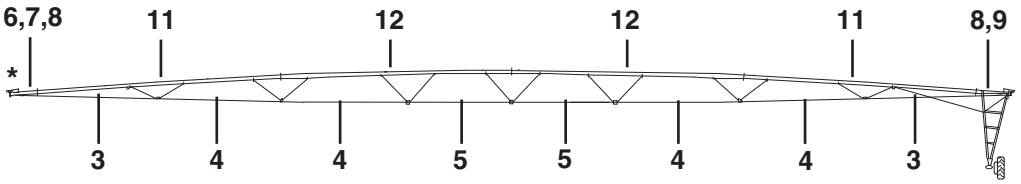
123.4' Span
[37.61m]



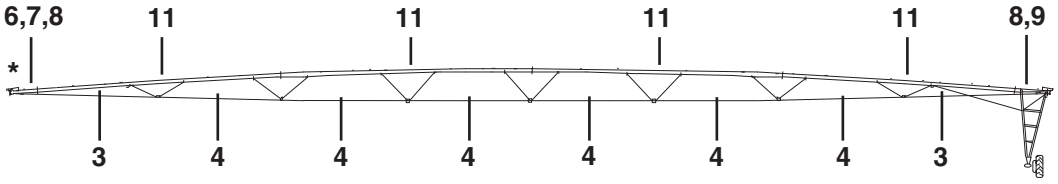
142.3' Span
[43.37m]



157.5' Span
[48.00m]



161.2' Span
[49.12m]



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

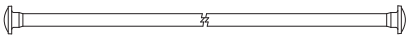
Reverse Transitions change from 8-5/8" to 6-5/8" dia. at the Swivel end of the Span when the transition is between the Cart and the Freestanding Span.

In all other cases the transition occurs at the fixed end of the Span.

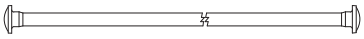
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PolySpan® MODEL 8120P

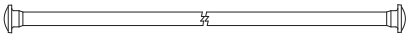
22' - 2.84"[677.8cm] Head/Head

1  **Purple**

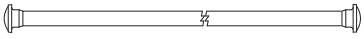
18' - 8.28"[569.7cm] Head/Head

2  **Gold**

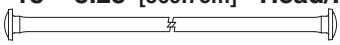
22' - 2.84"[677.8cm] Head/Head

3  **Brown**

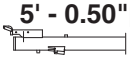
18' - 8.28"[569.7cm] Head/Head

4  **Flourescent Green**

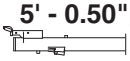
18' - 8.28"[569.7cm] Head/Head

5 

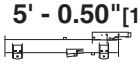
5' - 0.50"[153.7cm] *

6 

5' - 0.50"[153.7cm]

7 

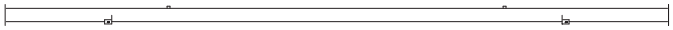
5' - 0.50"[153.7cm] *

8 

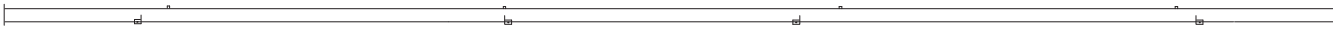
5' - 0.50"[153.7cm]

9 

18' - 10.41"[575.1cm]

10 

37' - 9.00"[1150.6cm]

11 

37' - 9.00"[1150.6cm]

12 

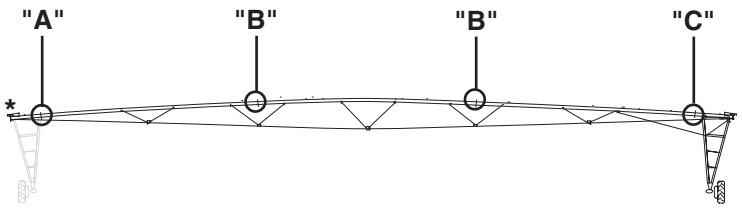
Item	Description	Part #
1	3/4" Tower Truss Rod (22'-2.84")[677.8cm]	9360683
2	3/4" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360682
3	13/16" Tower Truss Rod (22'-2.84")[677.8cm]	9360718
4	13/16" Intermediate Truss Rod (18'-8.28")[569.7cm]	9360719
5	13/16" Intermediate Truss Rod (16'-10.56")[514.5cm]	9362510
*6	Reverse Transition Stub Pipe (5'-0.50")[153.7cm]	9362757
7	Swivel Stub Pipe (5'-0.50")[153.7cm]	9362717
*8	Transition Stub Pipe (5'-0.50")[153.7cm]	9362088
9	Fixed Stub Pipe (5'-0.50")[153.7cm]	9362719
		75.5"[191.8cm]
10	19' Intermediate Pipe (18'-10.41")[575.1cm]	9362723
11	38' Intermediate Pipe (37'-9")[1150.6cm]	9362721
12	36' Intermediate Pipe (35-10.50")[1095.4cm]	9362751

***NOTE: Transition Stubs consist of 6-5/8" pipe with 8-5/8" Flange.**

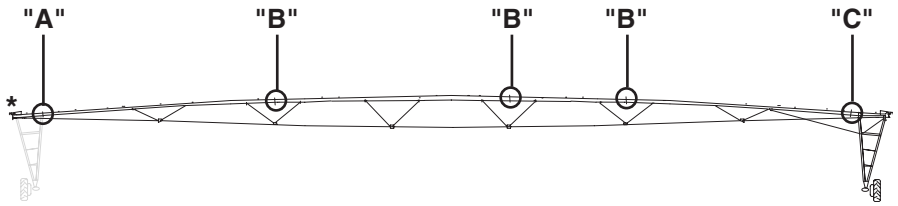
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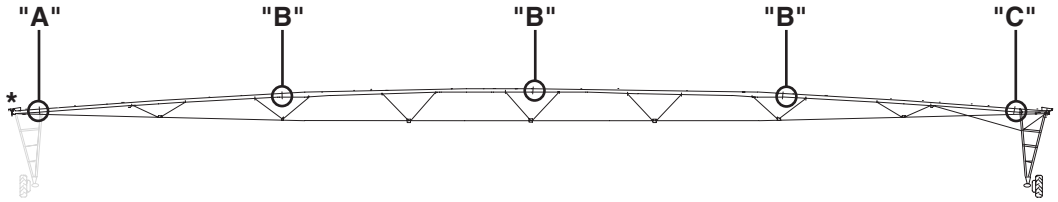
123.4' Span
[37.61m]



142.3' Span
[43.37m]



161.2' Span
[49.12m]

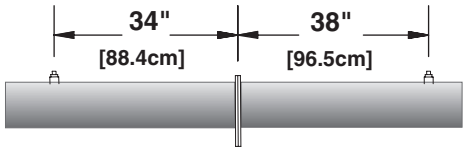


***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

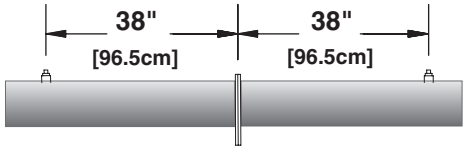
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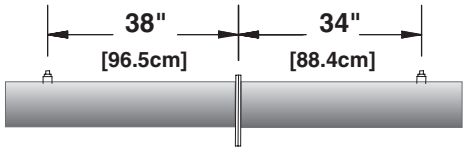
Detail "A"



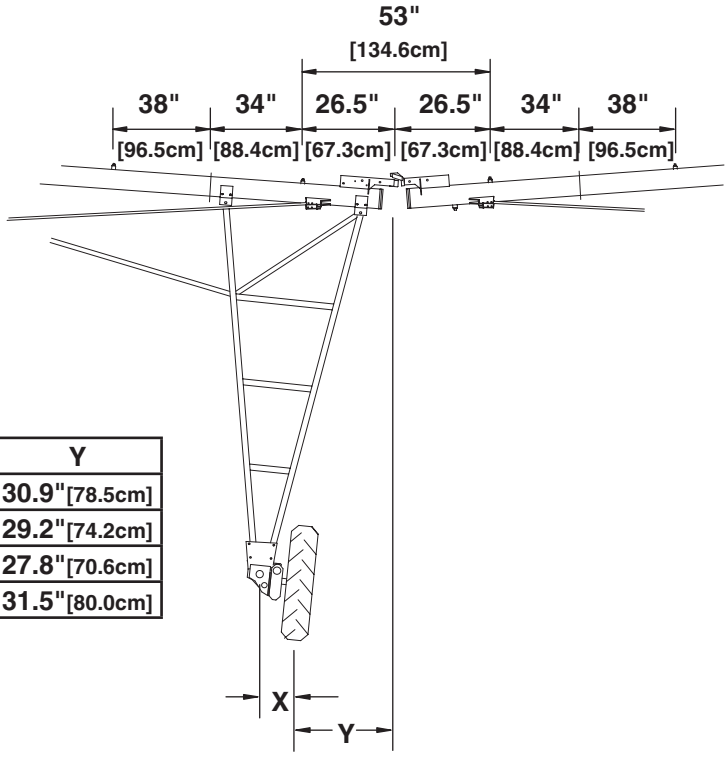
Detail "B"



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.

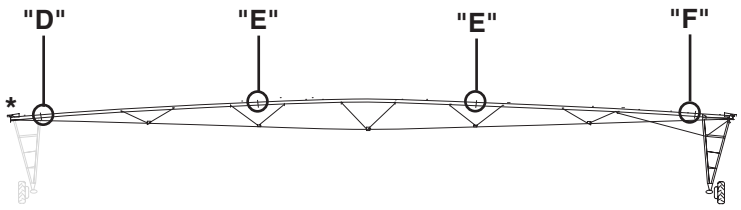
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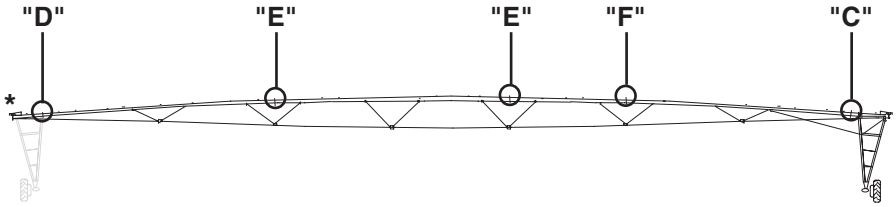
SPECIAL ORDER ONLY

(Contact Valley Customer Service)

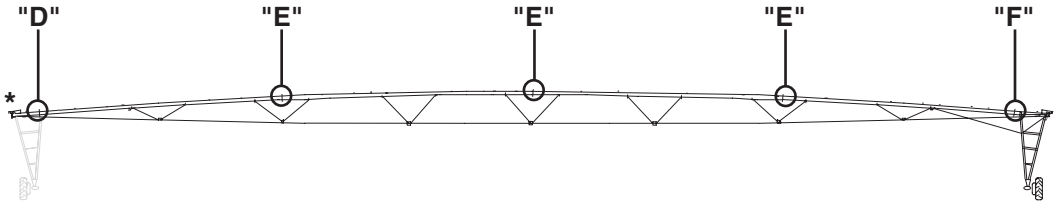
123.4' Span
[37.61m]



142.3' Span
[43.37m]



161.2' Span
[49.12m]



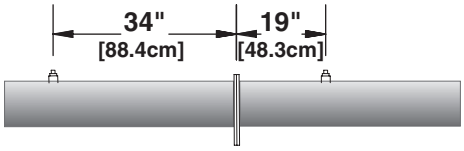
***NOTE: Fixed Stub and Drive Unit are used at both ends of Freestanding Spans.**

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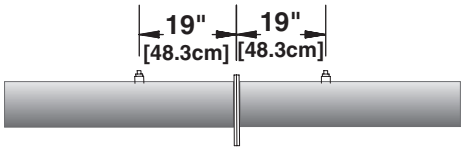
PolySpan® MODEL 8120P

SPECIAL ORDER ONLY
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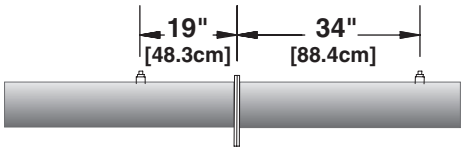
Detail "D"



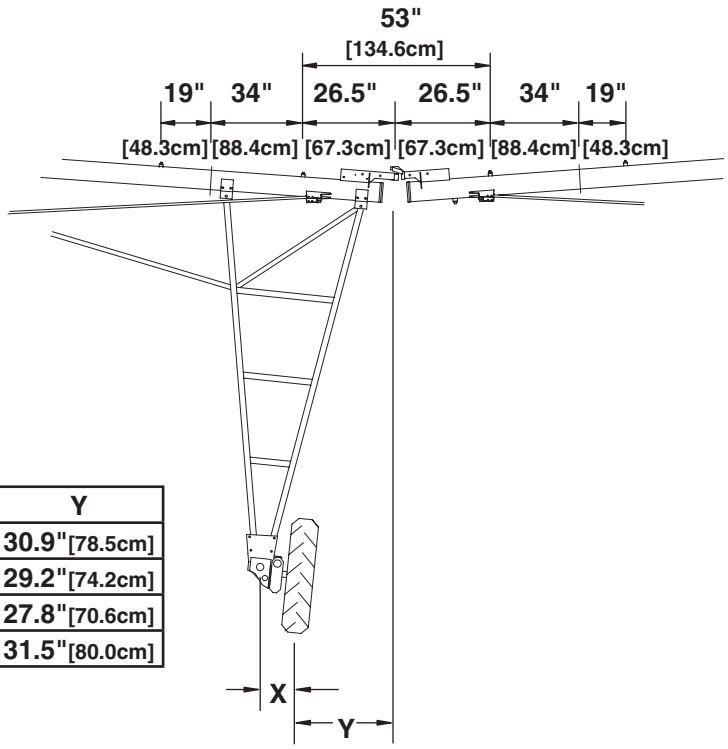
Detail "E"



Detail "F"



PIVOT

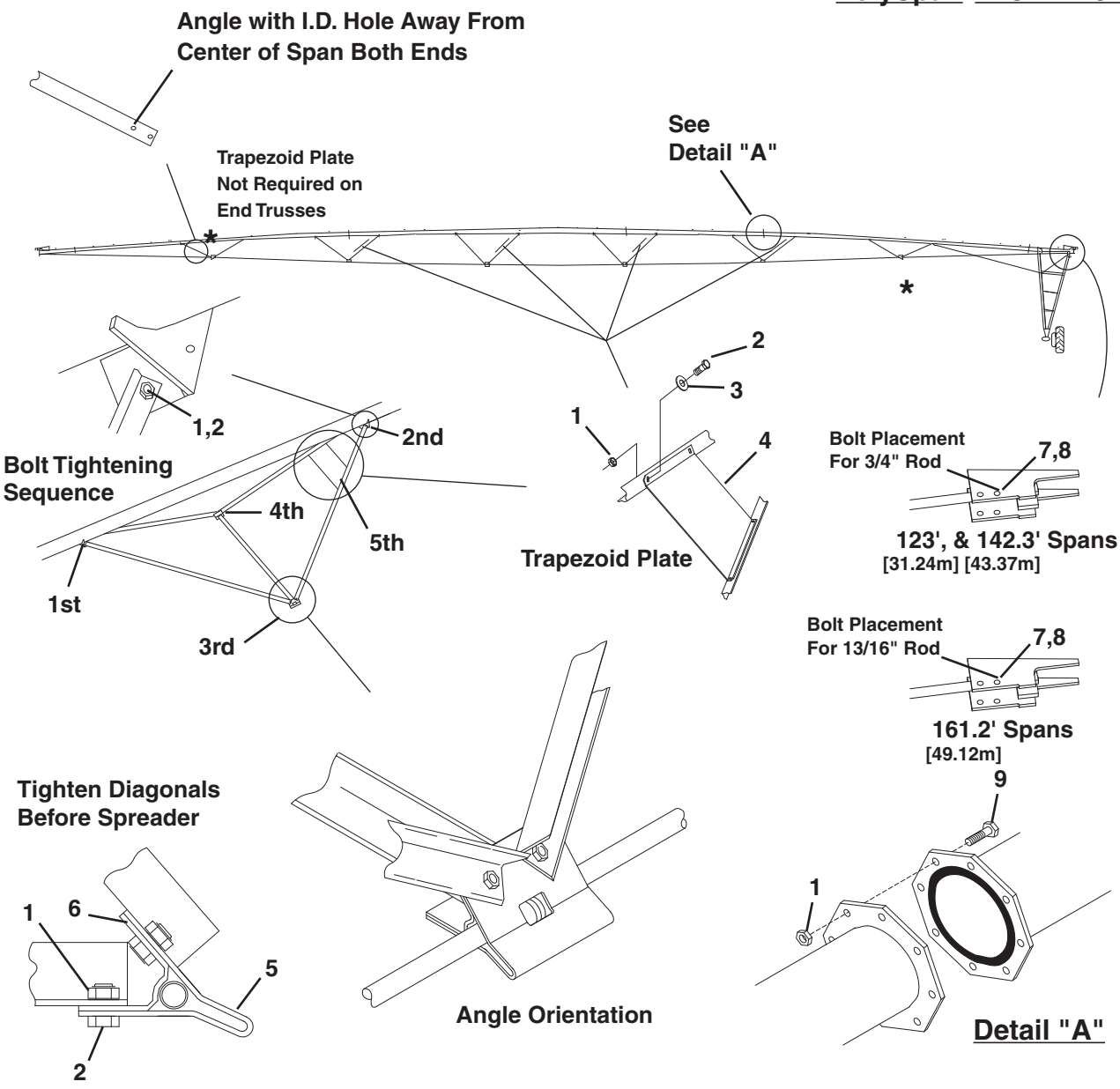


TIRE	X	Y
11.2 x 24	12.4"[31.5cm]	30.9"[78.5cm]
14.9 x 24	14.1"[35.8cm]	29.2"[74.2cm]
16.9 x 24	15.5"[39.4cm]	27.8"[70.6cm]
11.2 x 38	11.8"[30.0cm]	31.5"[80.0cm]

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

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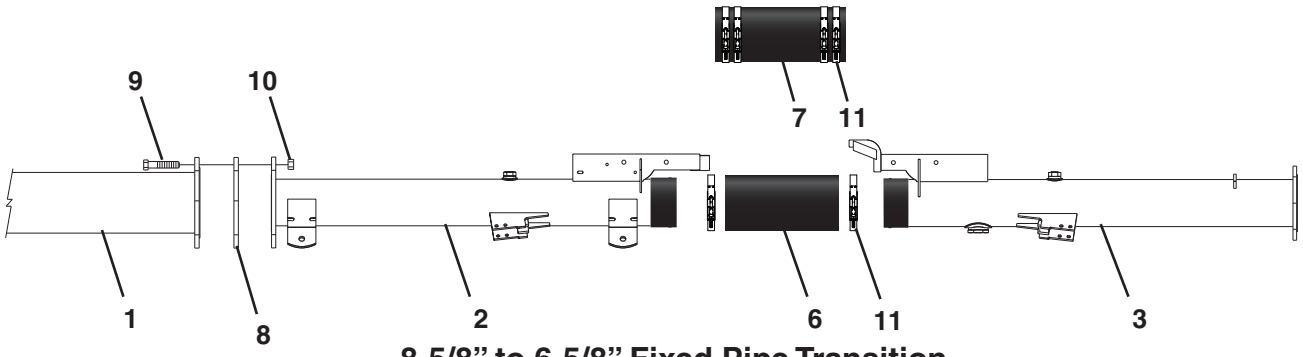
PolySpan® MODEL 8120P



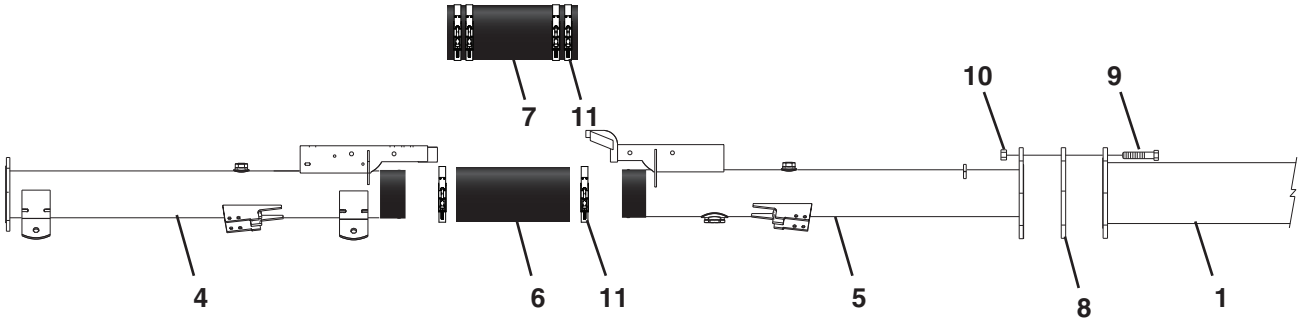
ITEM	DESCRIPTION	PART #
1	1/2" Lock Nut	0133005
2	1/2" x 1-1/4" Cap Screw	0161027
3	1/2" Flat Washer	0142025
4	Trapezoid Plate	9360068
5	Outer Socket	9360069
6	Inner Socket	9360070
7	3/8" Lock Nut	0133006
8	3/8" x 3" Cap Screw	0161037
9	1/2" x 2-1/2" Cap Screw	0161023

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PolySpan® 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
	8-5/8” Intermediate Pipe	9361854
2	8-5/8” to 6-5/8” Fixed Transition Pipe	9362753
	8-5/8” to 6-5/8” Fixed Transition Pipe	9361850
3	6-5/8” Swivel Stub Pipe	9362671
	6-5/8” Swivel Stub Pipe	9361835
4	6-5/8” Fixed Stub Pipe	9362675
	6-5/8” Fixed Stub Pipe	9361836
5	8-5/8” to 6-5/8” Swivel Transition Pipe	9362759
	8-5/8” to 6-5/8” Swivel Transition Pipe	9362094
6	Flex Hose, 7” I.D. - 16" Long	0995628
7	Flex Boot, 7” I.D. - 20" Long - 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" Flex Joint Clamp	0995627

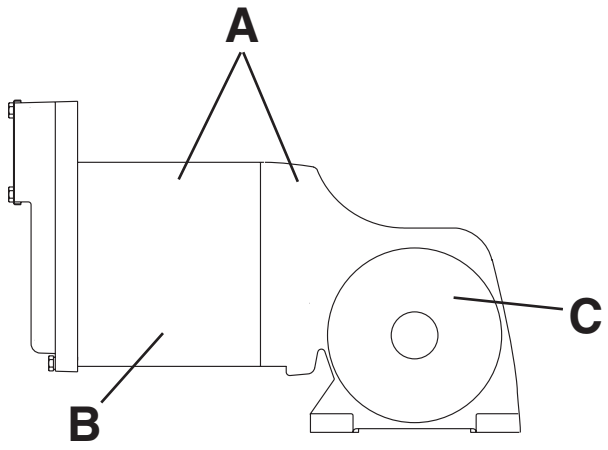
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DRIVE UNIT / DRIVE TRAIN

Universal Linear - Effective 1-18

Description	Rev. #	Pg. #
Gearmotor	11-18	13-3
Gearmotor Repair Parts	11-18	13-4
Emerson Helical Gearmotors	04-15	13-5
Baldor-Omni/Boston Helical Gearboxes	05-16	13-6
Nidec-Omni/Boston Helical Gearmotors	05-16	13-7
Greaseless U-Joint	07-07	13-8
Heavy Duty U-Joint for Four Wheel Hose Drag w/6" Hose	07-13	13-9
Drive Shaft & Shields	01-97	13-10
Valmont Gearbox	08-18	13-11
Double Input Gearbox - Non-Towable	08-18	13-12
Gearboxes	03-12	13-13
Gear Lubrication	10-18	13-14
Tires and Rims	03-18	13-15
Non-Tow Basebeam Gearbox Mounts	04-16	13-16
Standard Profile Drive Unit - EFFECTIVE Feb. 2012	01-19	13-17
Low Profile Drive Unit - EFFECTIVE Feb. 2012	04-16	13-18
High Profile Drive Unit - EFFECTIVE Feb. 2012	01-19	13-19
Ultra High Profile Drive Unit - EFFECTIVE October 98	04-16	13-20
Ultra High Profile Parts List - EFFECTIVE October 98	05-08	13-21
Ultra High Profile Drive Unit - EFFECTIVE October 98 - INTERNATIONAL ONLY	04-16	13-22
Ultra High Profile Parts List - EFFECTIVE October 98 - INTERNATIONAL ONLY	05-08	13-23
Valley Three Wheel Option	04-16	13-24
Valley Three Wheel Option	05-15	13-25

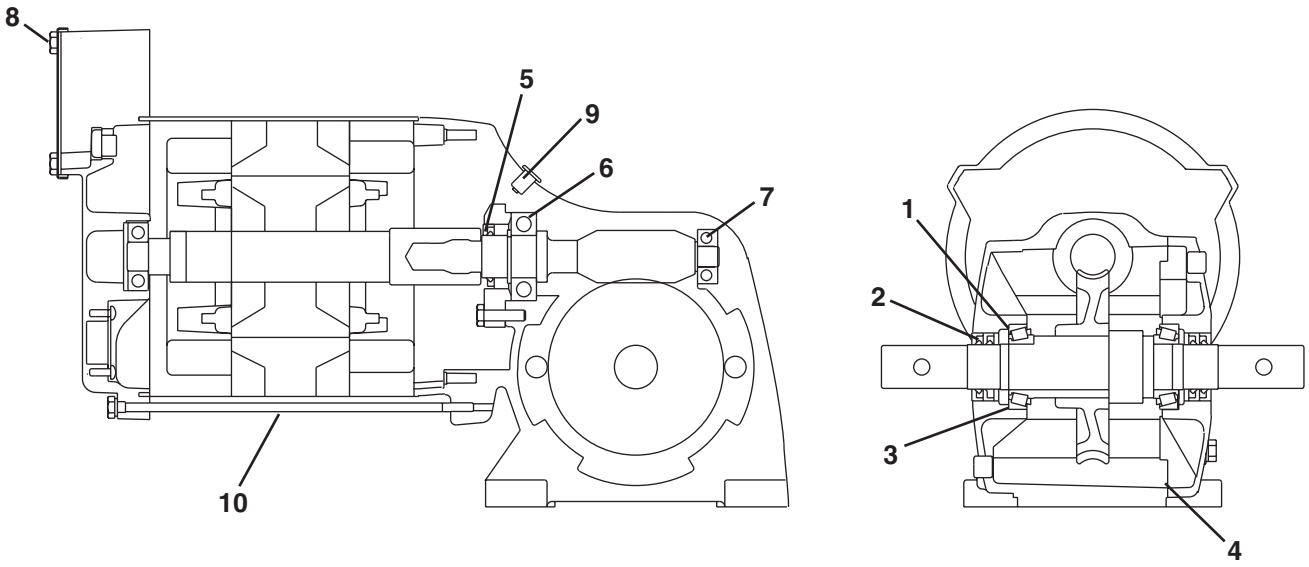
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LINEAR SPANS							
RPM	**DESCRIPTION**	**INHERENT PROTECTED**	**HP**	**RATIO**	**WHERE USED**	**U.S. MOTOR PART #**	**BALDOR PART #**
30	Gearmotor (A) Motor Module (B) Gearbox Module (C)	YES	1	58:1	End Tower Standard Speed	03E2044 03E2045 0314915	03E3865 03E3859 03E3488
37	Gearmotor (A) Motor Module (B) Gearbox Module (C)	YES	1	47:1	Intermediate Tower Standard Speed	03E2039 03E2045 0314916	03E3866 03E3859 03E3490
56	Gearmotor (A) Motor Module (B) Gearbox Module (C)	YES	1.5	31:1	End Tower High Speed	03E2056 03E2046 0314928	03E3867 03E3860 03E3492
68	Gearmotor (A) Motor Module (B) Gearbox Module (C)	YES	1.5	26:1	Intermediate Tower High Speed	03E2040 03E2046 0314922	03E3868 03E3860 03E3494

HEAVY DUTY HOSE DRAG CART							
RPM	**DESCRIPTION**	**INHERENT PROTECTED**	**HP**	**RATIO**	**WHERE USED**	**U.S.MOTOR PART #**	**BALDOR PART #**
30	Gearmotor (A) Motor Module (B) Gearbox Module (C)	YES	1.5	58:1	Hose Drag Cart	N/A 03E2046 0314915	N/A 03E3860 03E3488
37	Gearmotor (A) Motor Module (B) Gearbox Module (C)	YES	1.5	47:1	Hose Drag Cart	N/A 03E2046 0314916	N/A 03E3860 03E3490

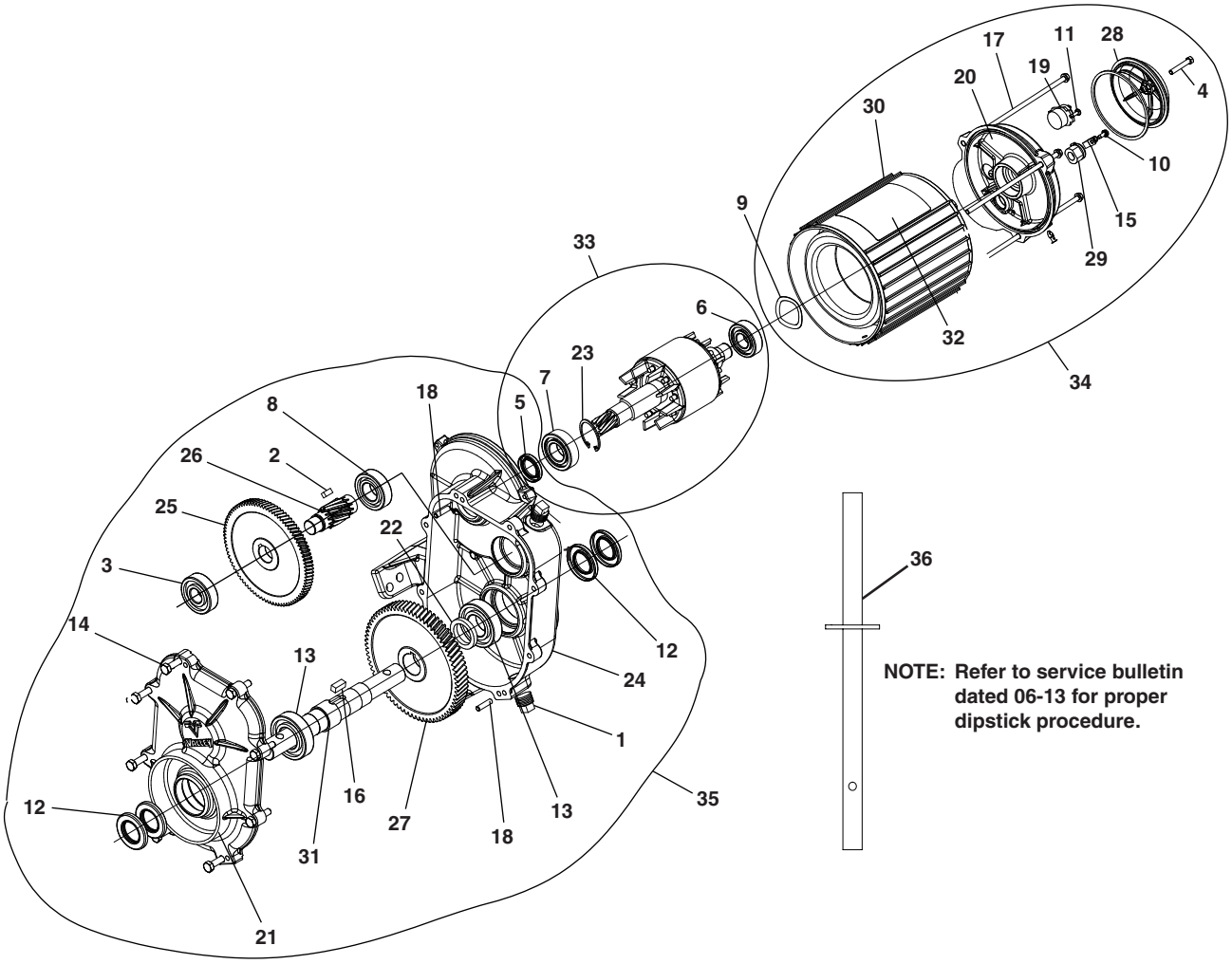
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NOTE: The Worm Shaft And Worm Wheel Are Not Available As Repair Units. If Worn Or Broken, Replace With A Complete Gearbox Assembly.

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

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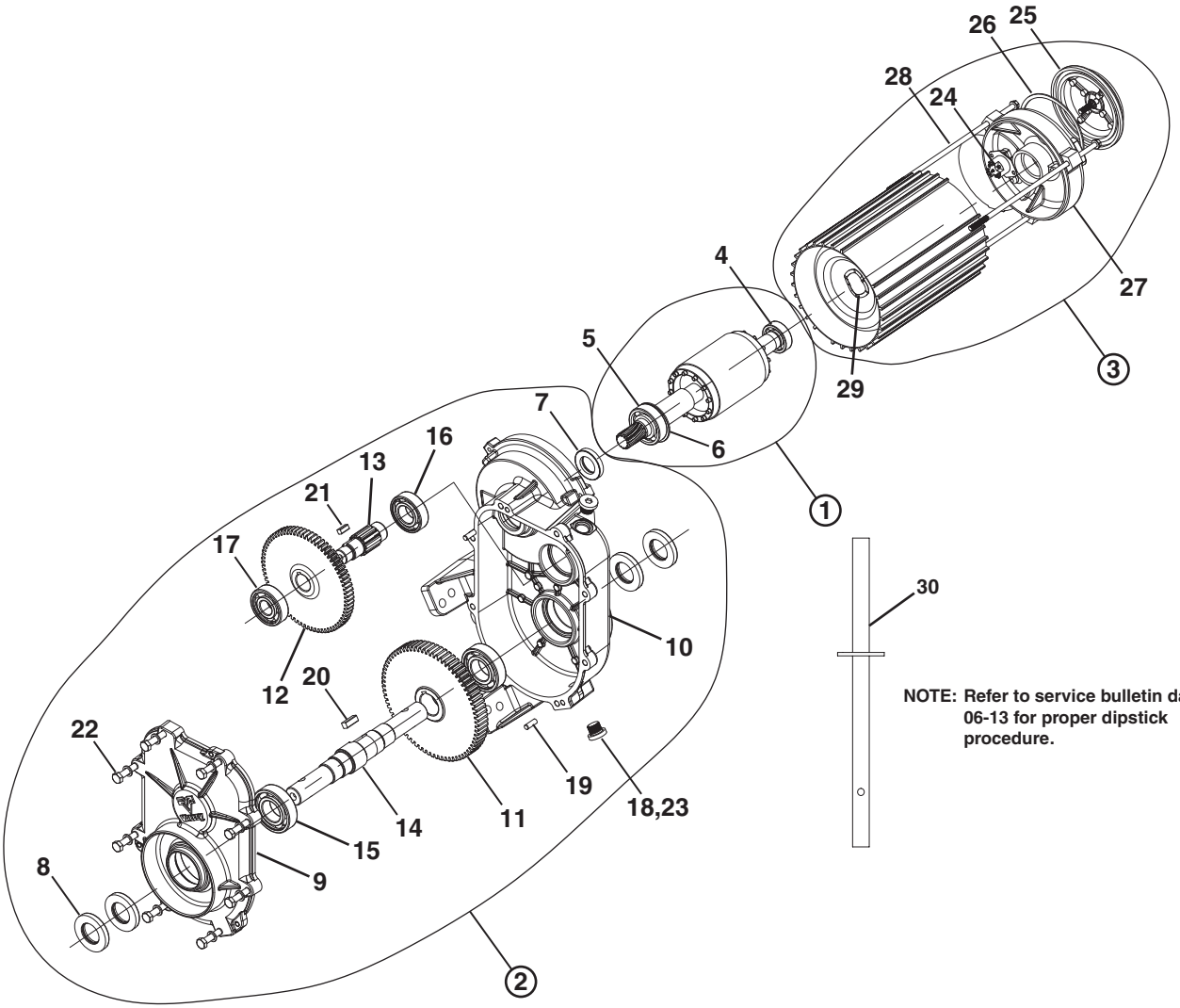
NOTE: Refer to service bulletin dated 06-13 for proper dipstick procedure.

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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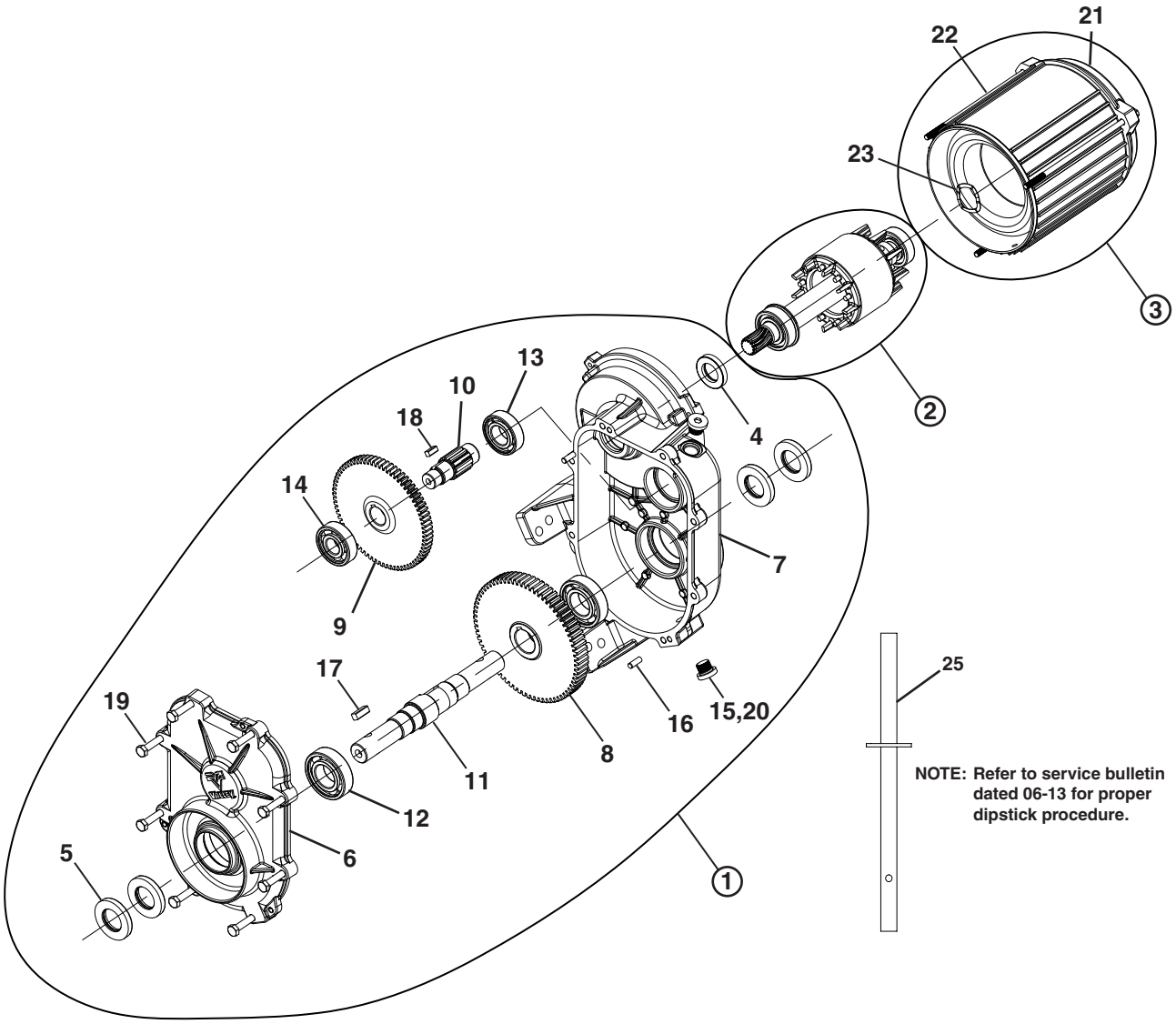


NOTE: Refer to service bulletin dated 06-13 for proper dipstick procedure.

ITEM	DESCRIPTION	PART #
1	Rotor Assm w/(2 Brgs & Seal) - 34 RPM	03E2309
	Rotor Assm w/(2 Brgs & Seal) - 68 RPM	03E2310
2	Helical Gearbox Assembly (34 & 68 RPM)	03E2465
3	Stator Module Assembly - 34 RPM (Service)	03E2839
	Stator Module Assembly - 68 RPM (Service)	03E2840
4	Snap Ring	0257020
5	Rotor Bearing - 6203	03E3040
6	Rotor Bearing - 6205	03E3041
7	Input Seal	0318175
8	Output Seal	0318176
9	Cover	03E2946
10	Housing	03E3001
11	Gear - Low Speed - 73T	03E3002
12	Gear - High Speed - 86T	03E3003
13	Pinion - Low Speed - 11T	03E3004
14	Gear Shaft - Low Speed	03E3005
15	Gear Bearing - 6206	03E3006
16	Gear Bearing - 6205	03E3007
17	Gear Bearing - 6304	03E3008

ITEM	DESCRIPTION	PART #
18	Gear Flange Plug	03E3009
19	Gear Dowel Pin	03E3010
20	8 x 7 x 23.5 Gear Key	03E3011
21	6 x 6 x 12.7 Gear Key	03E3012
22	M8 x 1.25 x 30 Bolt	03E3014
23	O-Ring	0997874
24	Thermal - TPMYJ38AO - 1.2 / 34 RPM	03E3042
	Thermal - TPMYJ42WO - .6 / 68 RPM	03E3043
25	Lid	03E3044
26	Gasket	03E3045
27	Endplate	03E3046
28	Through Bolt	03E3047
29	Wavy Washer	03E3057
30	Helical Center Drive Dipstick	0998886
	34 RPM Gearbox Assembly	
	Gearbox and Electric Motor Module	03E2468
	68 RPM Gearbox Assembly	
	Gearbox and Electric Motor Module	03E2469

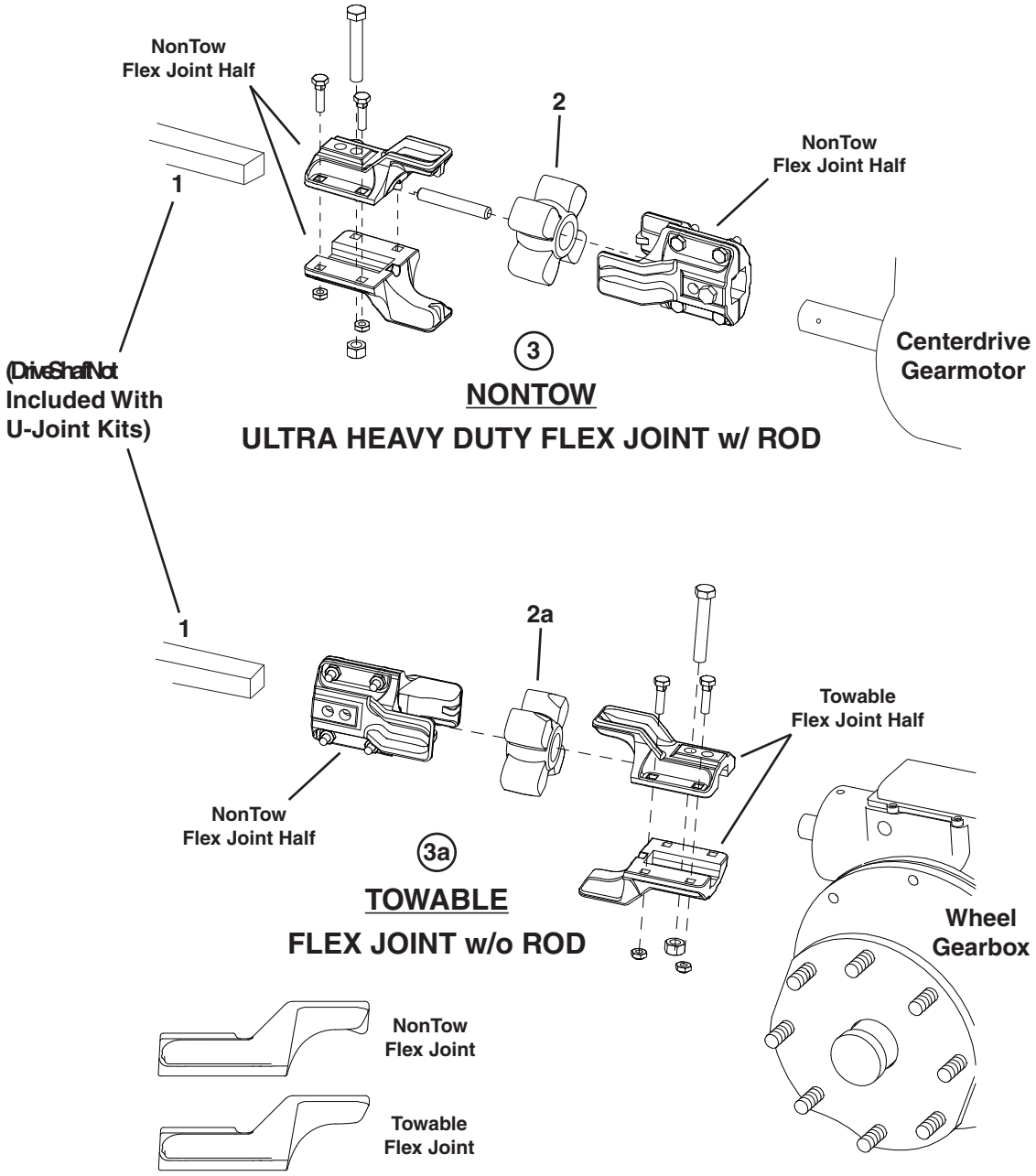
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ITEM	DESCRIPTION	PART #
1	Helical Gearbox Assembly (34 & 68 RPM)	03E2465
2	Rotor Assm w/(2 Brgs & Snap Ring) - 34 RPM (Serv)	03E3581
	Rotor Assm w/(2 Brgs & Snap Ring) - 68 RPM (Serv)	03E3586
3	Stator Module Assembly - 34 RPM (Service)	03E3582
	Stator 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

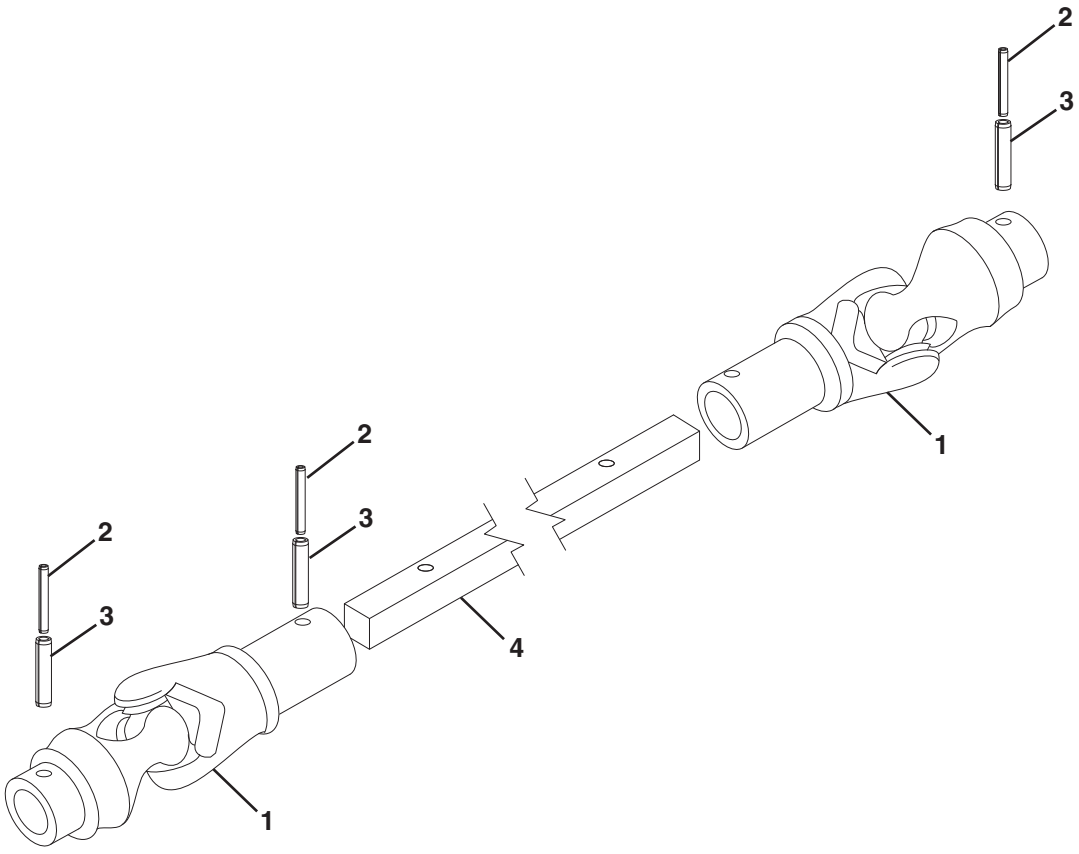
ITEM	DESCRIPTION	PART #
16	Gear Dowel Pin	03E3010
17	8 x 7 x 23.5 Gear Key	03E3011
18	6 x 6 x 12.7 Gear Key	03E3012
19	M8 x 1.25 x 30 Bolt	03E3014
20	O-Ring	0997874
21	Lid/Gasket	03E2156
22	Cap Screw - Stator	03E1759
23	Wavy Washer	03E1754
24	Thermal - 34 RPM (not shown)	03E1760
	Thermal - 68 RPM (not 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.)	9361714
2	NonTow Flex Joint Heavy Duty Insert	0996201
2a	Towable Flex Joint Heavy Duty Insert (w/ chamfer)	0997424
3	Ultra Heavy Duty Flex Joint Kit w/ Rod - 7/8" Sq. x 1" Round (NonTow)	KA01300
3a	Flex Joint Kit w/o Rod - 7/8" Sq. x 1" Round (Towable)	KA01375
	COMPLETE Flex Joint "Squex" Head Bolt Kit	KA01312

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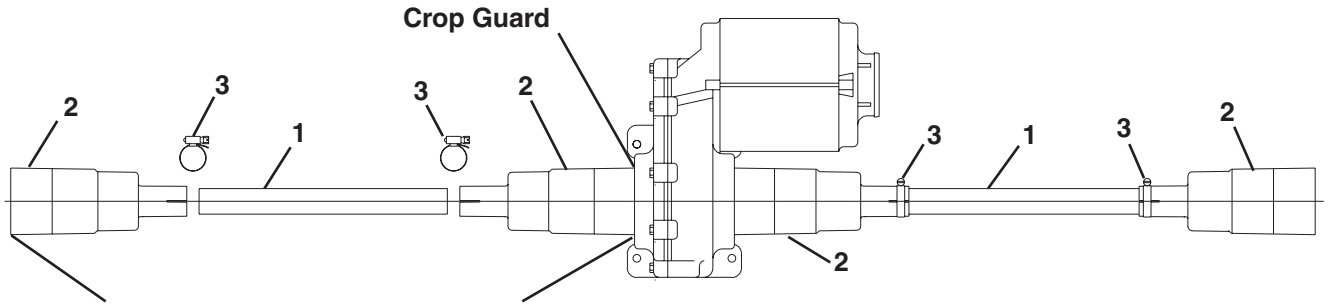


Used on Hose Drag Equipped with 6" Hose

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	Drive Shaft 7/8" Sq. x 60.12" Long	1702215

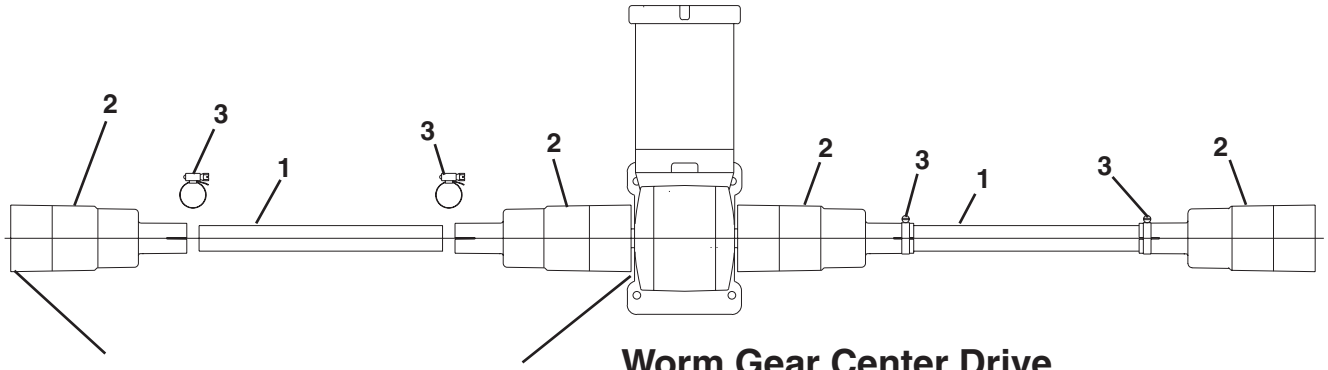
COMPLETE U-Joint & Drive Shaft Assembly.....1701385

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NOTE: Install shields inside crop guard with 1/8" gap between shield and gear-boxes/center drive. Shield assemblies should rotate freely over drive shaft and u-joints.

Helical Gear Center Drive

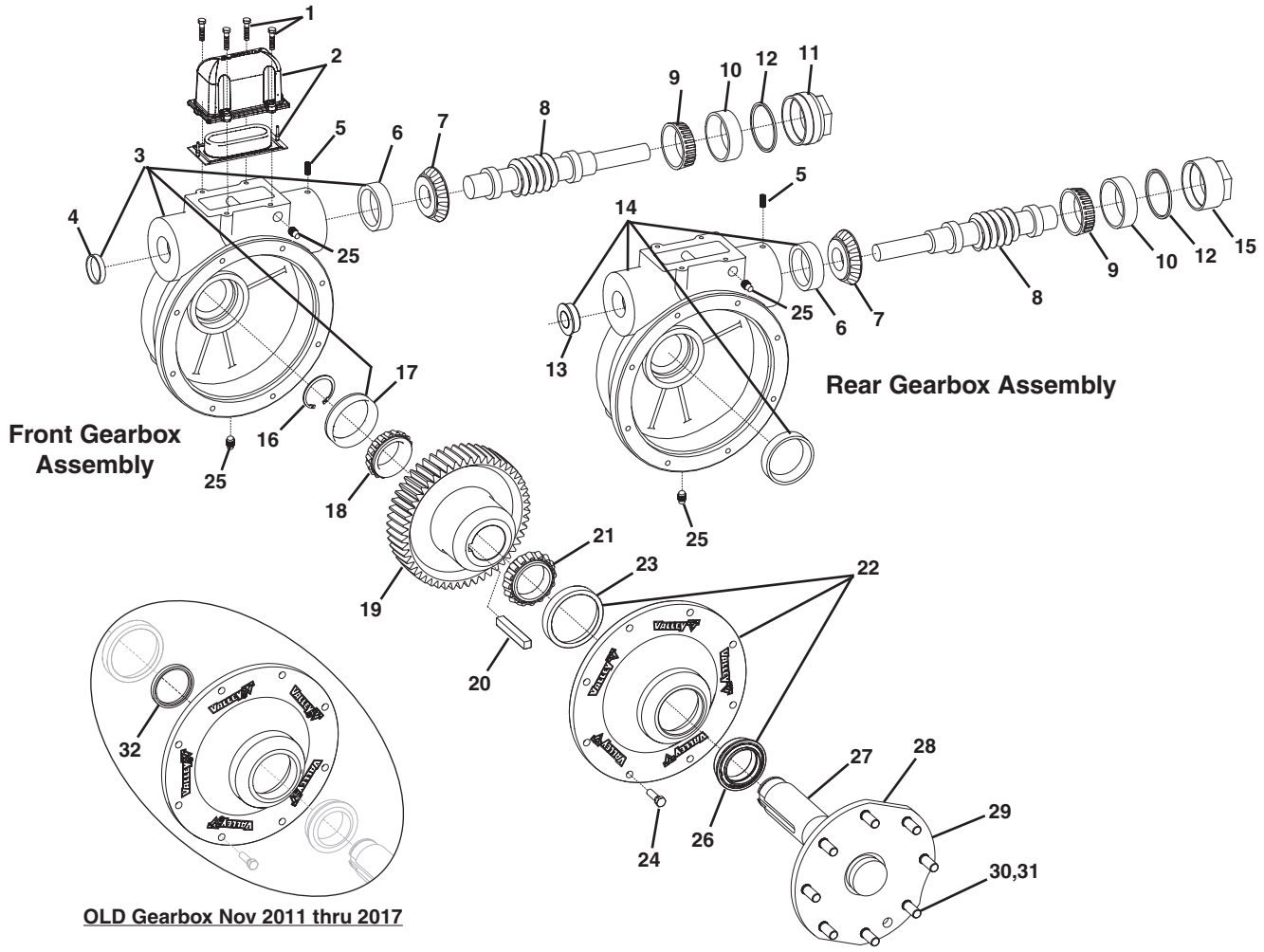


NOTE: Install Shields with 1/8" gap between shield and gearboxes/center drive. Shield Assemblies should rotate freely over drive shaft and u-joints.

Worm Gear Center Drive

ITEM	DESCRIPTION	PART #
1	Shield - 40.62" Long (Low Profile Add Span D.U.)	0992716
	Shield - 55.38" Long (4 Wheel Hose Drag Cart & Std. Profile Add Span D.U.)	0992715
	Shield - 60.44" Long (4 Wheel Ditch Feed Linear Cart)	0992718
	Shield - 76.31" Long (Universal Linear Cart & High Profile Add Span D.U.)	0992717
2	Shield - 11.75" Long	1702614
3	Clamp-Stainless Steel	0271013

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OLD Gearbox Nov 2011 thru 2017

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 *

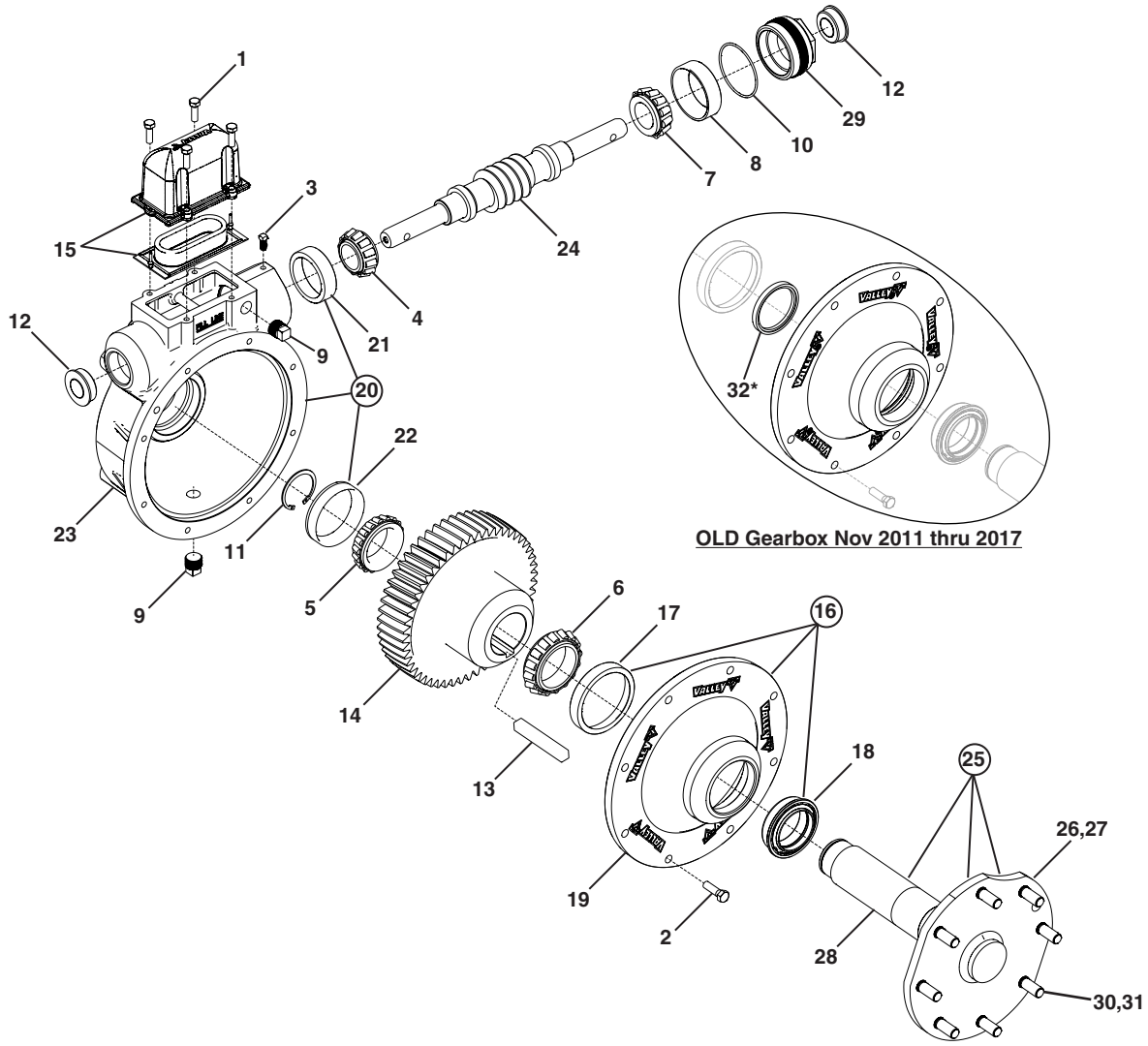
COMPLETE Front Gearbox Assembly	1701966
COMPLETE Rear Gearbox Assembly	1701965

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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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 #)
0996213	REAR TOWABLE	Omni Towable, Disengaging Worm	White w/Black Letteriing (Part #)
0996214	FRONT TOWABLE	Omni Towable, Disengaging Worm	White w/Black Letteriing (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**	

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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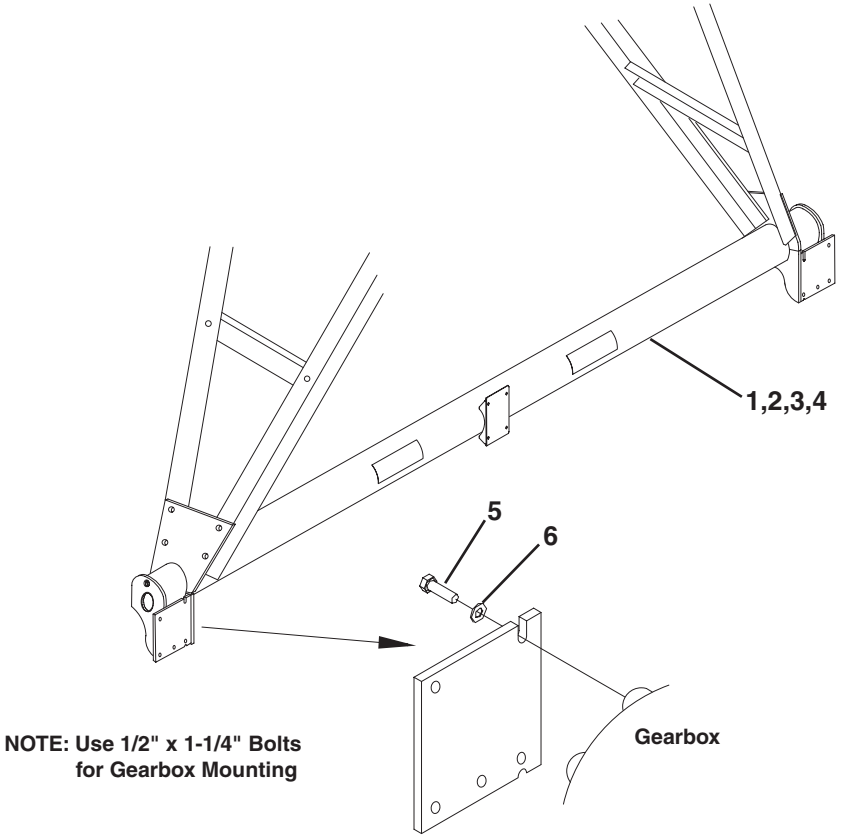
Description		Front Assm.	Rear Assm.	Tube	Rim	Tire	Operating Pressure (PSI)	Offset (Inches)	Valve Stem
New Tubeless	TITAN	1700168	1700167	-	1702357	0991257	34	1.62	0991282
11.2 x 24	FIRESTONE	1704039	1704038	-	1702357	0996656	34	1.62	0991282
New W/Tube	TITAN	1703608	1703609	0991290	1702357	0991257	34	1.62	-
11.2 x 24	FIRESTONE	1704040	1704041	0991290	1702357	0996656	34	1.62	-
Hi-Float	TITAN	1701103	1701104	-	1702348	0991256	18*	0.5[1]	0991282
14.9 x 24	FIRESTONE	1704026	1704027	-	1702348	0996552	18*	0.5[1]	0991282
Hi-Float w/Tube	TITAN	1703788	1703787	0991175	1702348	0991256	18*	0.5[1]	-
14.9 x 24	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	TITAN	1703335	1703335	0991175	1702348	0993242	18*	0.5[1]	-
14.9 x 24	FIRESTONE	9363129	9363129	0991175	1702348	0997324	18*	0.5[1]	-
Hi-Float non-Directional w/Tube 14.9 x 24		1704163	1704163	0991175	1702348	0997900	18	0.5	-
Hi-Float non-Directional Tubeless 14.9 x 24		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	TITAN	1703715	1703714	-	1703723	0994214	23	1.72	0991282
11.2 x 38	FIRESTONE	1703851	1703850	-	1703723	0996658	23	1.72	0991282
w/Tube	TITAN	1703743	1703744	0994215	1703723	0994214	23	1.72	-
11.2 x 38	FIRESTONE	1703852	1703853	0994215	1703723	0996658	23	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 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	-
* Radial Tubeless 12.4R38 138B *	FIRESTONE	9364746	9364747	-	1703723	0980054	15	1.72	0991282
* Radial w/Tube 12.4R38 138B *	FIRESTONE	9364744	9364745	0994215	1703723	0980054	15	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.
Not Used for Cart.

*** Pressure may be decreased to 16 psi for flotation.**
[1] Effective November 2005

*** * Domestic ONLY.**
International ONLY.

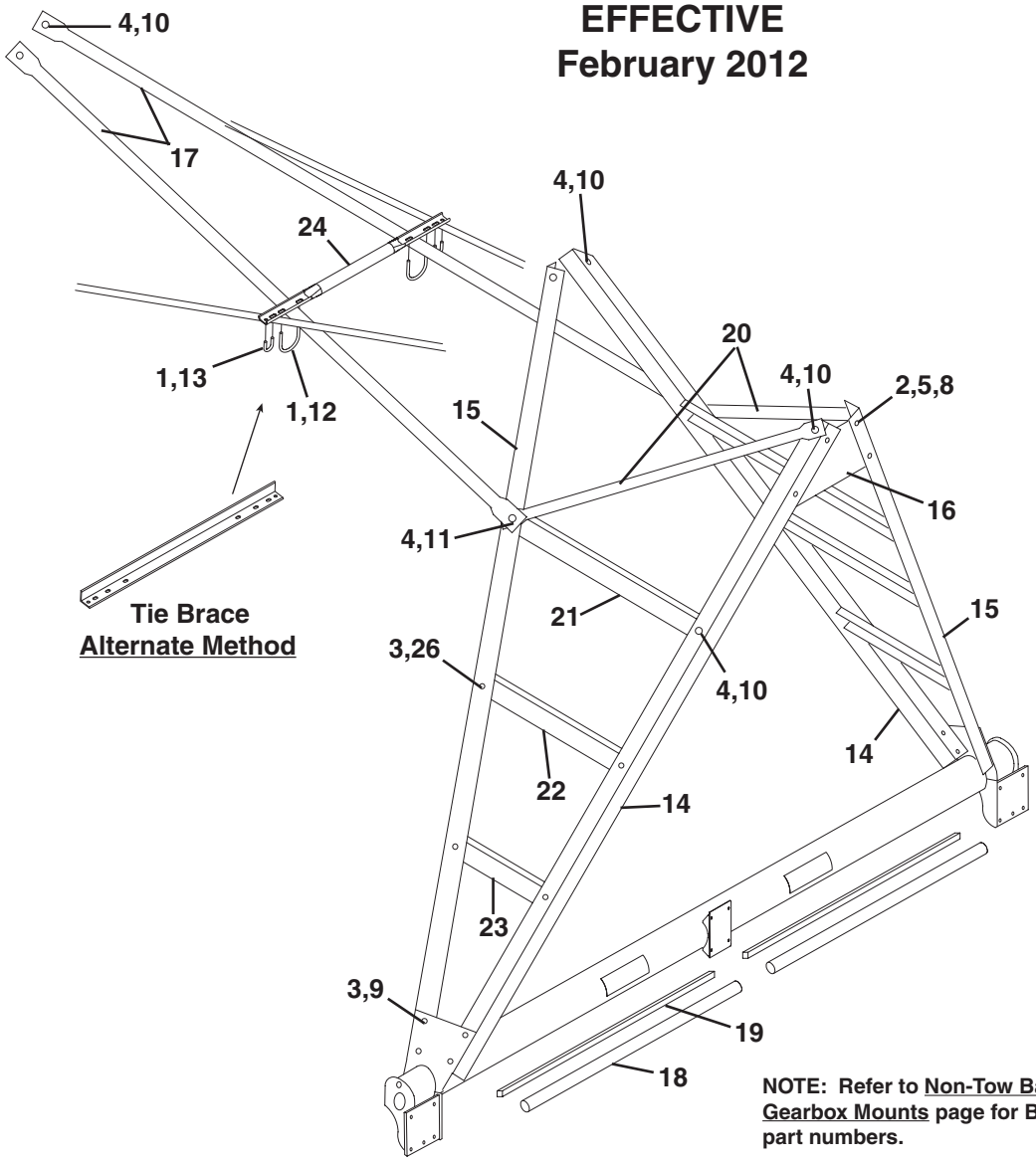
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ITEM	DESCRIPTION	PART #
1	Non-Tow Basebeam Standard Profile	1780995
2	Non-Tow Basebeam Low Profile	1781000
3	Non-Tow Basebeam High Profile	1781001
4	Non-Tow Basebeam Ultra High Profile	9360189
5	1/2" x 1-1/4" Cap Screw	0161027
6	1/2" Flat Washer	0142025

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EFFECTIVE
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NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

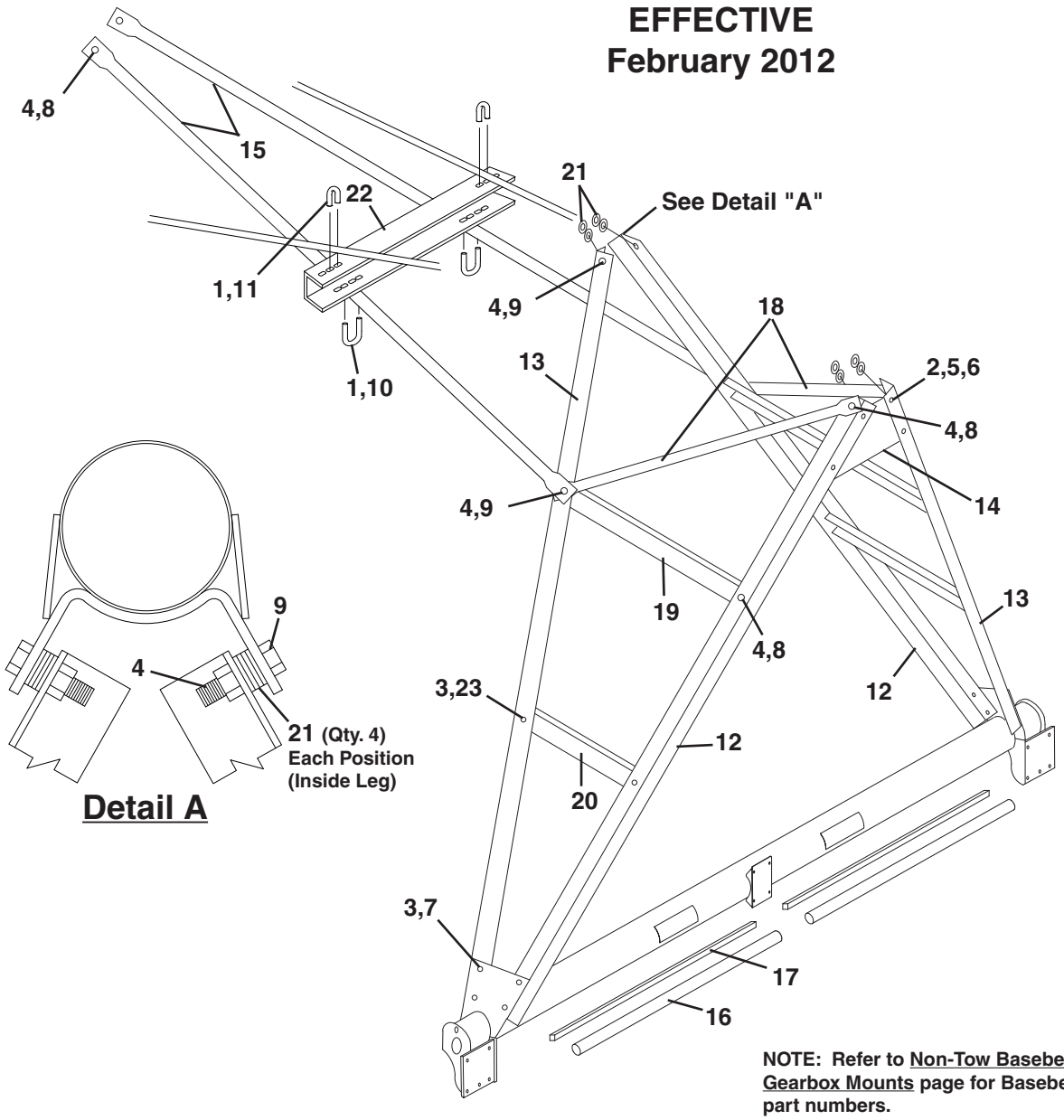
ITEM	DESCRIPTION	PART #
1	3/8" Flange Nut	0134055
2	1/2" Lock Nut	0133005
3	5/8" Lock Nut	0133010
4	3/4" Lock Nut	0133011
5	1/2" Flat Washer	0142025
6	1/2" x 1-1/4" Cap Screw	0161027
9	5/8" x 1-3/4" Cap Screw	0161088
10	3/4" x 1-3/4" Cap Screw	0161139
11	3/4" x 2-1/2" Cap Screw	0161159
12	3/8" x 4" x 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	
	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
25	5/8" x 1-1/4" Cap Screw	0161379

(**) - These items are located in KA09390
(***) - 5" Items for Model 8120.

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NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

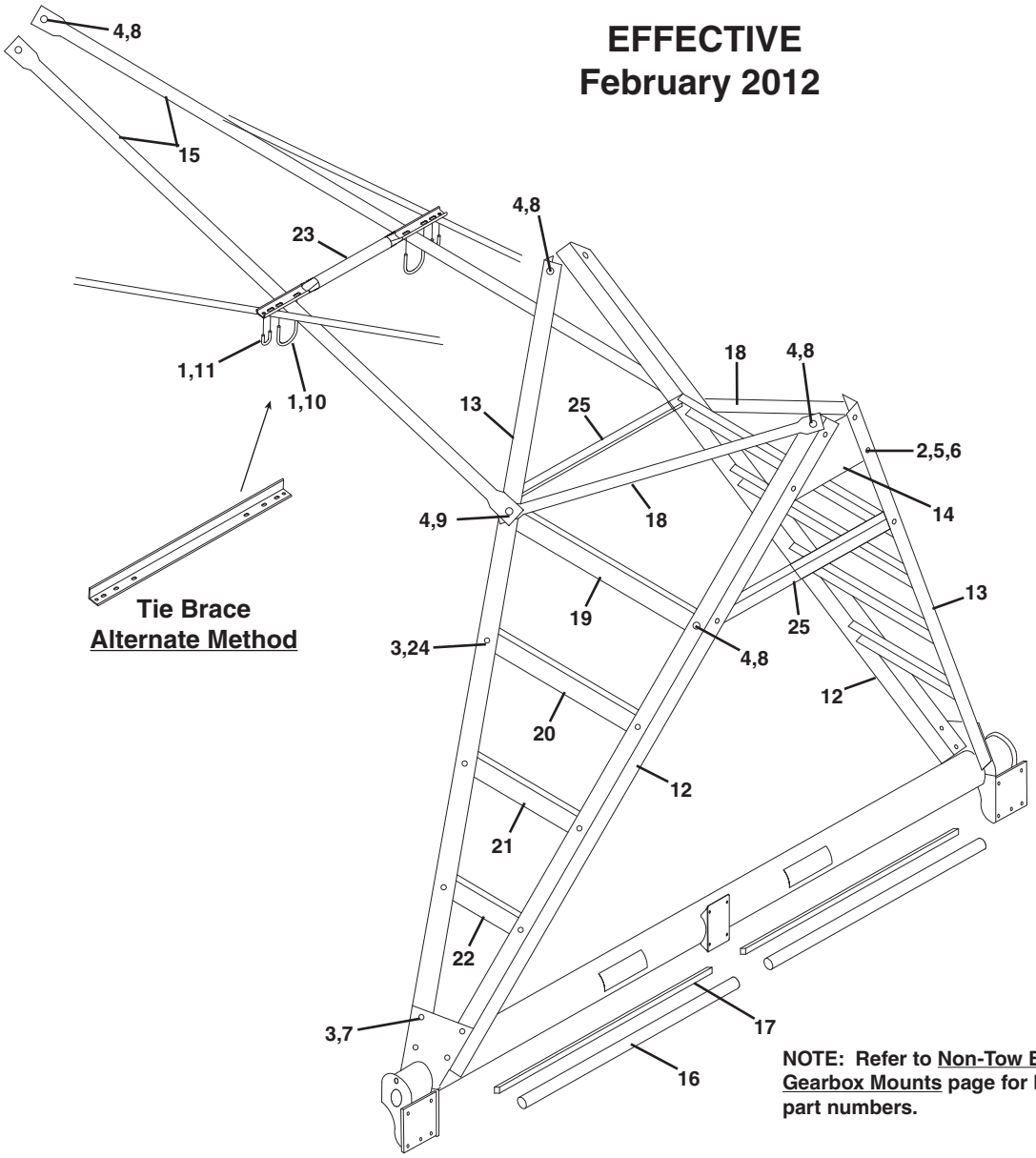
ITEM	DESCRIPTION	PART #
1	3/8" Flange Nut	0134055
2	1/2" Lock Nut	0133005
3	5/8" Lock Nut	0133010
4	3/4" Lock Nut	0133011
5	1/2" Flat Washer	0142025
6	1/2" x 1-1/4" Cap Screw	0161027
9	5/8" x 1-3/4" Cap Screw	0161088
10	3/4" x 1-3/4" Cap Screw	0161139
11	3/4" x 2-1/2" Cap Screw	0161159
12	3/8" x 4" x 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
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

ITEM	DESCRIPTION	PART #
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	5/8" x 1-1/4" Cap Screw	0161379

(*)- These items are located in KA09339.
(**)- 5" Items for Model 8120.

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February 2012



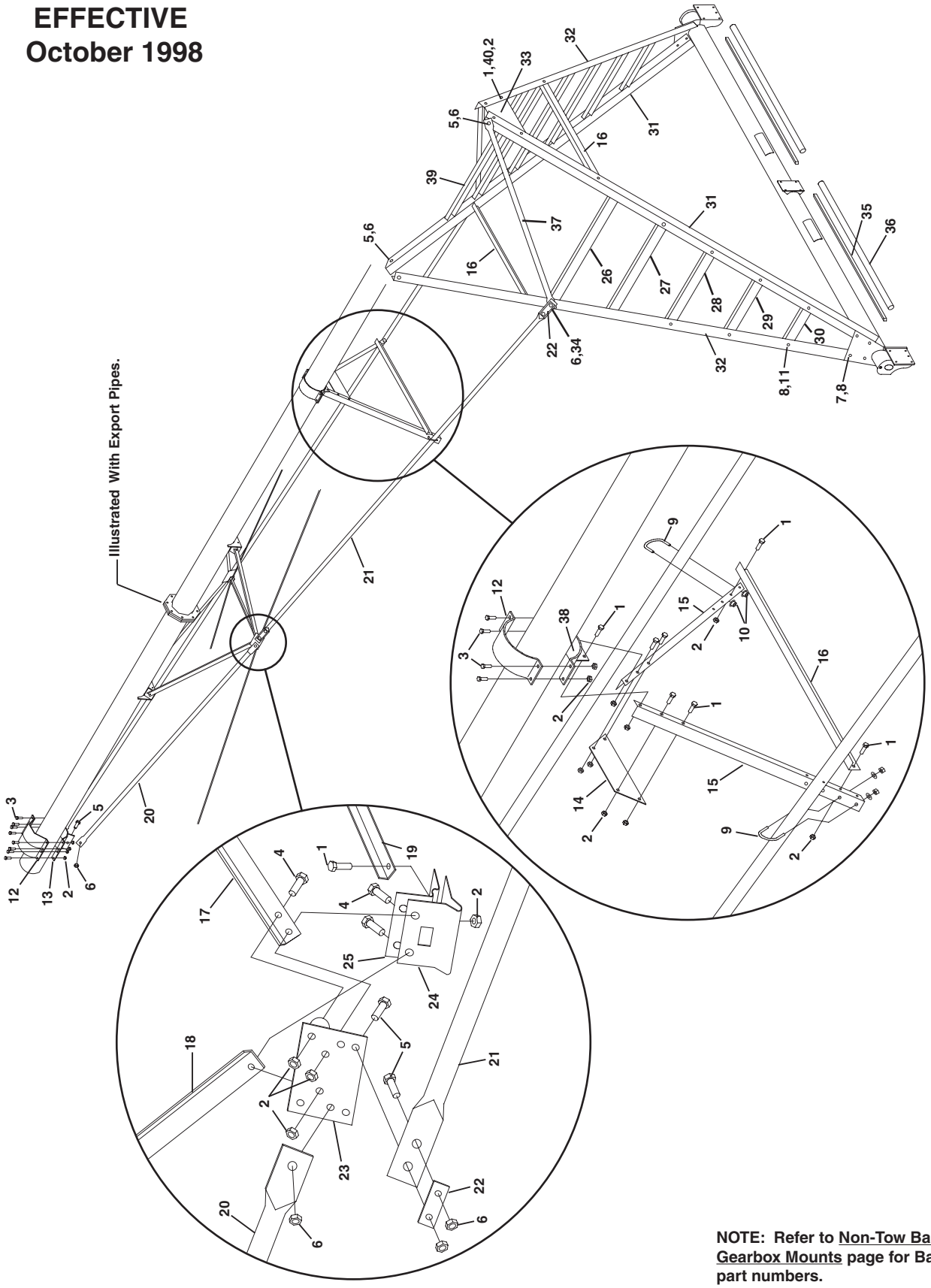
NOTE: Refer to Non-Tow Basebeam Gearbox Mounts page for Basebeam part numbers.

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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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

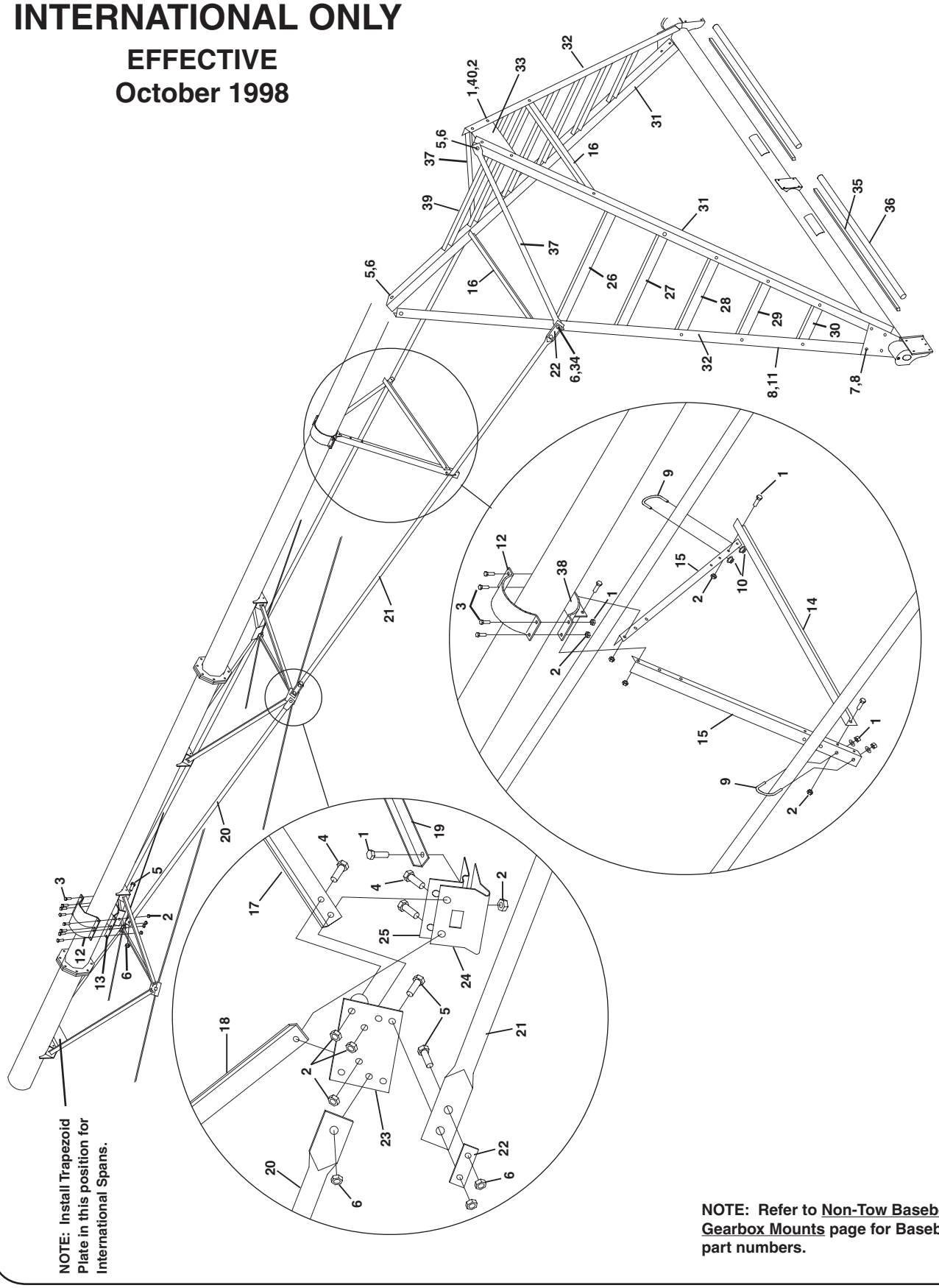
*** NOTE:** Longer Diagonal has I.D. and is to be located away from Span Center.

**** 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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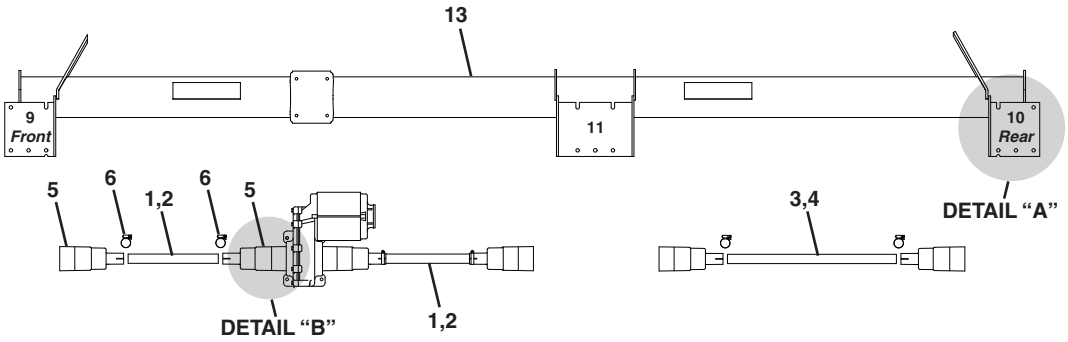
INTERNATIONAL ONLY
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October 1998

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

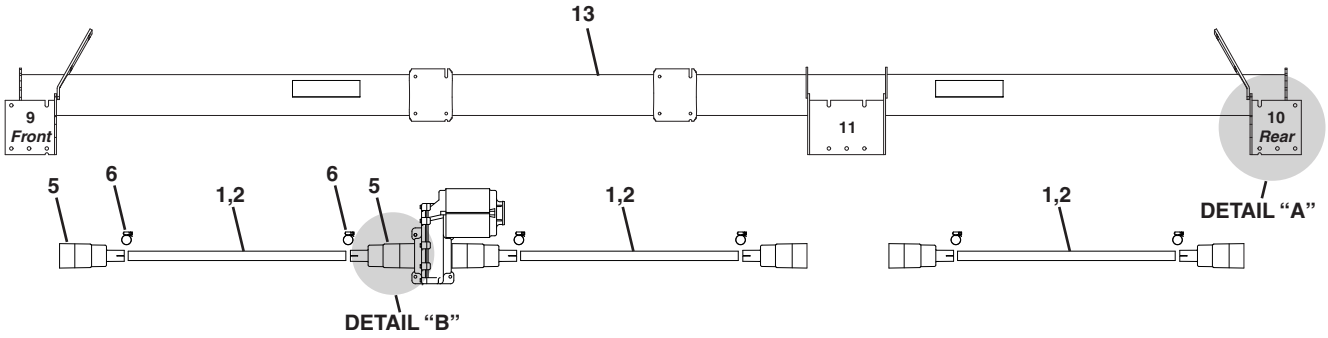
*** NOTE: Longer Diagonal has I.D. and is to be located away from Span Center.**

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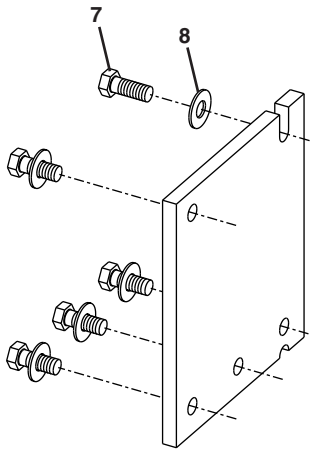


STANDARD PROFILE

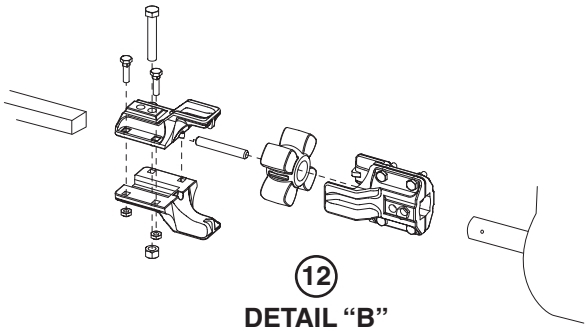


HIGH PROFILE

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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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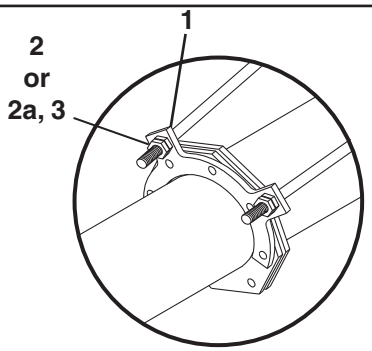
OVERHANGS

Universal Linear - Effective 1-18

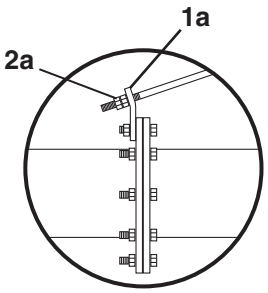
Description	Rev. #	Pg. #
Back Cables & Accessories - EFFECTIVE April 10	04-10	14-3
Overhang Cable Chart	01-08	14-4
6-5/8" - Model 8000		
2.5'[.76m] Overhang	12-08	14-5
9'[2.74m] Overhang - EFFECTIVE May 98	11-15	14-6
18'[5.49m] Overhang - EFFECTIVE May 98	11-15	14-7
27'[8.23m] Overhang - EFFECTIVE May 98	11-15	14-8
36'[10.97m] Overhang - EFFECTIVE May 98	11-15	14-9
36'[10.97m] Heavy Duty - EFFECTIVE May 98	01-14	14-10
45'[13.72m] Overhang	07-14	14-11
54'[16.46m] Overhang - EFFECTIVE May 98	01-14	14-12
64'[19.50m] Overhang - EFFECTIVE May 98	01-14	14-13
73'[22.25m] Overhang	07-14	14-14
82'[24.99m] Overhang - EFFECTIVE May 98	01-14	14-15
Sign Mounting	07-10	14-16
5" - Model 8120		
No Overhang	03-04	14-17
19.2'[5.84m] Overhang	11-15	14-18
28.5'[8.68m] Overhang	11-15	14-19
55.9'[17.04m] Overhang	02-13	14-20
74'[22.56m] Overhang	02-13	14-21
Sign Mounting	07-18	14-22

For older versions of product design refer to "PRIOR TO" pages in corresponding section in 8000/8120 Linear Manual.

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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)	Overall Cable Length (cm)	Heavy Duty Back Cable	Overall Length (in)	Overall Length (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

Overhang Length (ft)	Model	Last Span Length (ft)	Last Span Length (m)	Overall Cable Length (in)	Overall Cable Length (cm)	Heavy Duty Back Cable 5/16" - 82'	Heavy Duty Back Cable 9/32"	Overall Length (in)	Overall Length (cm)
36'HD,54',64'	8000	115'	35.1	815.50"	2071.4	9360746	9361987	816.00"	2072.6
36'HD,54',64'	8000 & 800E	135'	41.1	1051.12"	2669.8	9360745	9361989	1051.77"	2671.5
36'HD,54',64'	8000	140'	42.7	1107.50"	2813.1	9360744	9361990	1108.18"	2814.8
36'HD,54',64'	8120	142'	43.3	-	-	9360714	9361998	1162.72"	2953.3
36'HD,54',64'	800E	157.5'	48.0	1316.62"	3344.2	9360743	9361991	1317.43"	3346.3
36'HD,54',64'	8000	160'	48.8	1345.12"	3416.6	9360742	9361992	1345.95"	3418.7
36'HD,54',64'	8120	161'	49.1	-	-	9360715	9361999	1386.45"	3521.6
36'HD,54',64'	8000 & 800E	180'	54.9	1583.12"	4021.1	9360741	9361993	1584.11"	4023.6
36'HD,54',64'	8120	180'	54.9	-	-	9360716	9362000	1610.80"	4091.4
36'HD,54',64'	8000	185'	56.4	1640.12"	4165.9	9360740	9361994	1641.13"	4168.5
36'HD,54',64'	8000	187'	57.0	1662.12"	4221.8	9360739	9361995	1663.15"	4224.4
36'HD,54',64'	8120	199'	60.7	-	-	9360717	9362001	1835.50"	4662.2
36'HD,54',64'	800E	202.5'	61.7	1850.12"	4699.3	9360738	9361996	1851.26"	4702.2
36'HD,54',64'	8000	205'	62.5	1878.62"	4771.7	9360737	9361997	1879.79"	4774.7

NOTE: For PolySpan & 5", Overhang is 1 ft. longer than shown in chart because of Stub used.

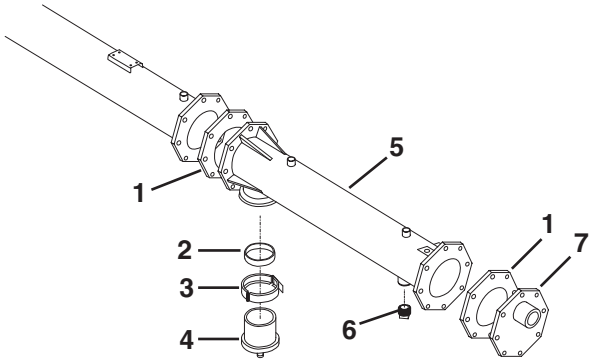
NOTE: 9/32" or 5/16" Cables can be used in place of 1/4" Cables if replaced in pairs.

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MODEL 8000 OVERHANG CABLE CHART

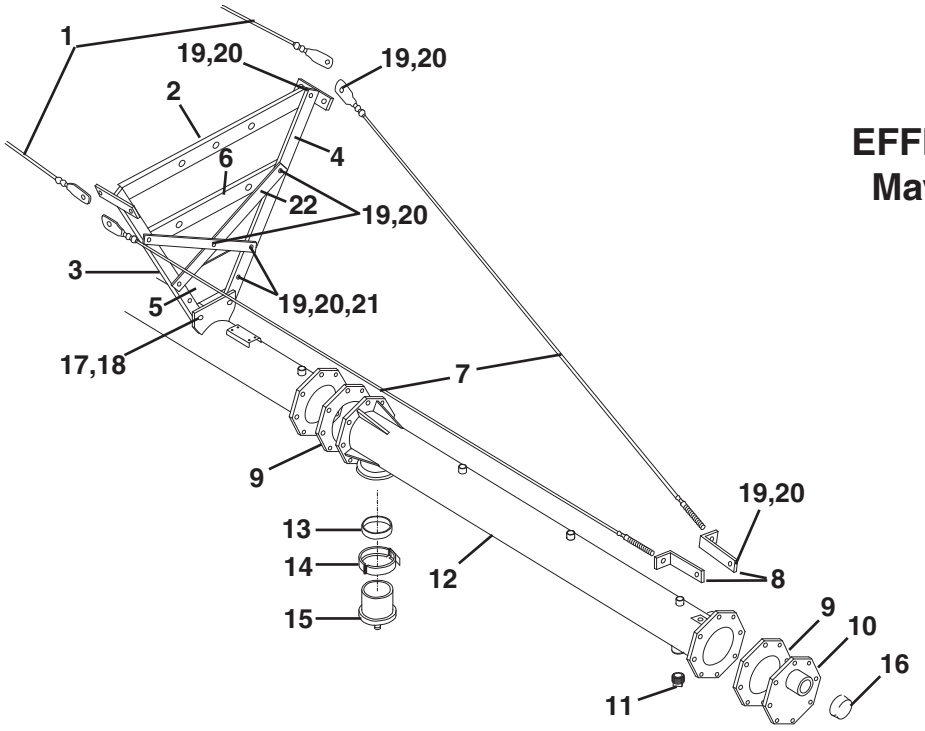
Overhang Length	Inner Cable	Middle Cable	Outer Cable	Down Cable	Spreader Cable
2.5' [.76m]	–	–	–	–	–
9' [2.74m]	–	–	9360316 12'-3.00" [3.73m]	–	–
18' [5.49m]	1780200 20'-10.75" [6.37m]	–	–	–	–
27' [8.23m]	1780201 30'-1.25" [9.18m]	–	–	–	–
36' [10.97m]	1780200 20'-10.75" [6.37m]	–	1780202 38'-7.75" [11.78m]	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]
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]
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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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

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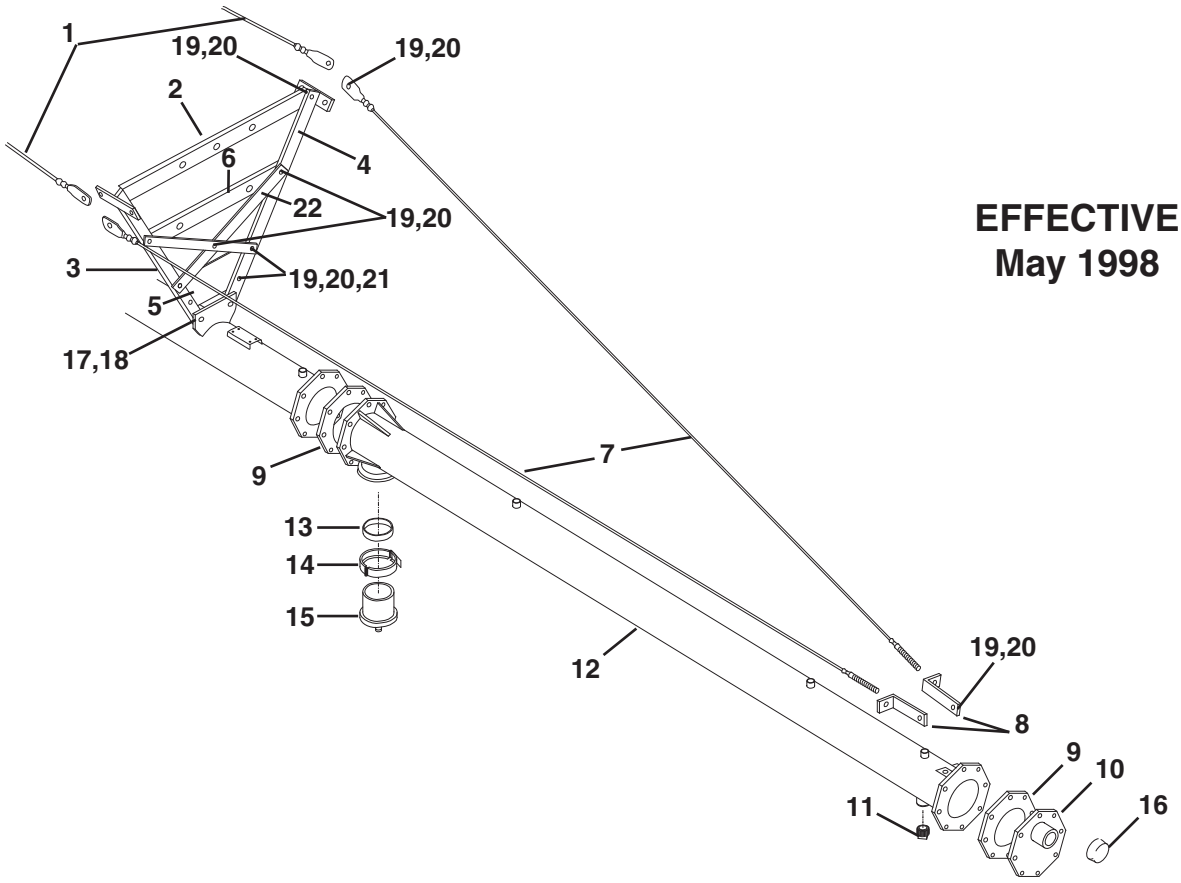


EFFECTIVE
May 1998

ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228*
3	L.H. Overhang Truss	9360044*
4	R.H. Overhang Truss	9360045*
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*

* COMPLETE Overhang Truss Kit KA01187

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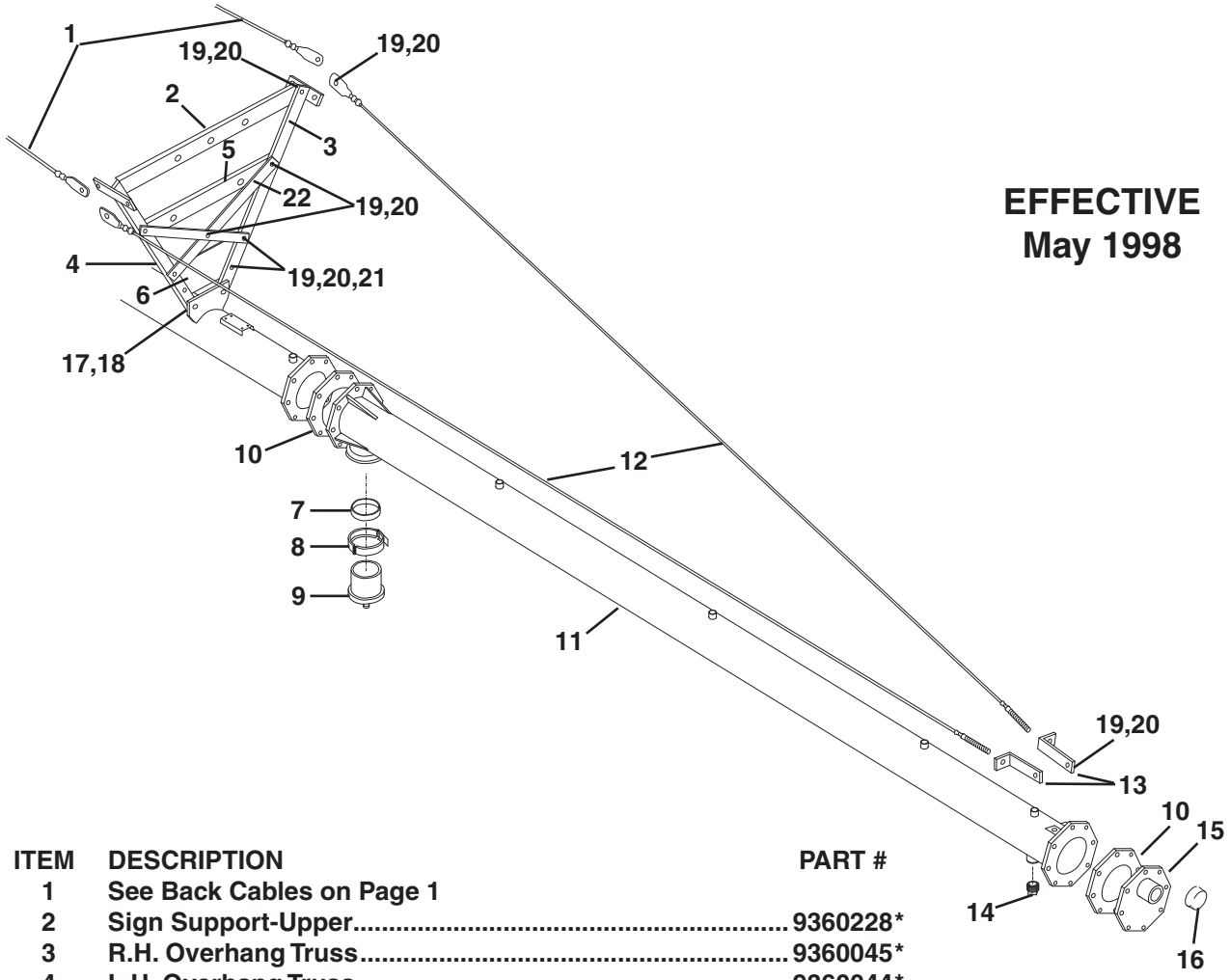


EFFECTIVE
May 1998

ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228*
3	L.H. Overhang Truss	9360044*
4	R.H. Overhang Truss	9360045*
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*

*** COMPLETE Overhang Truss Kit KA01187**

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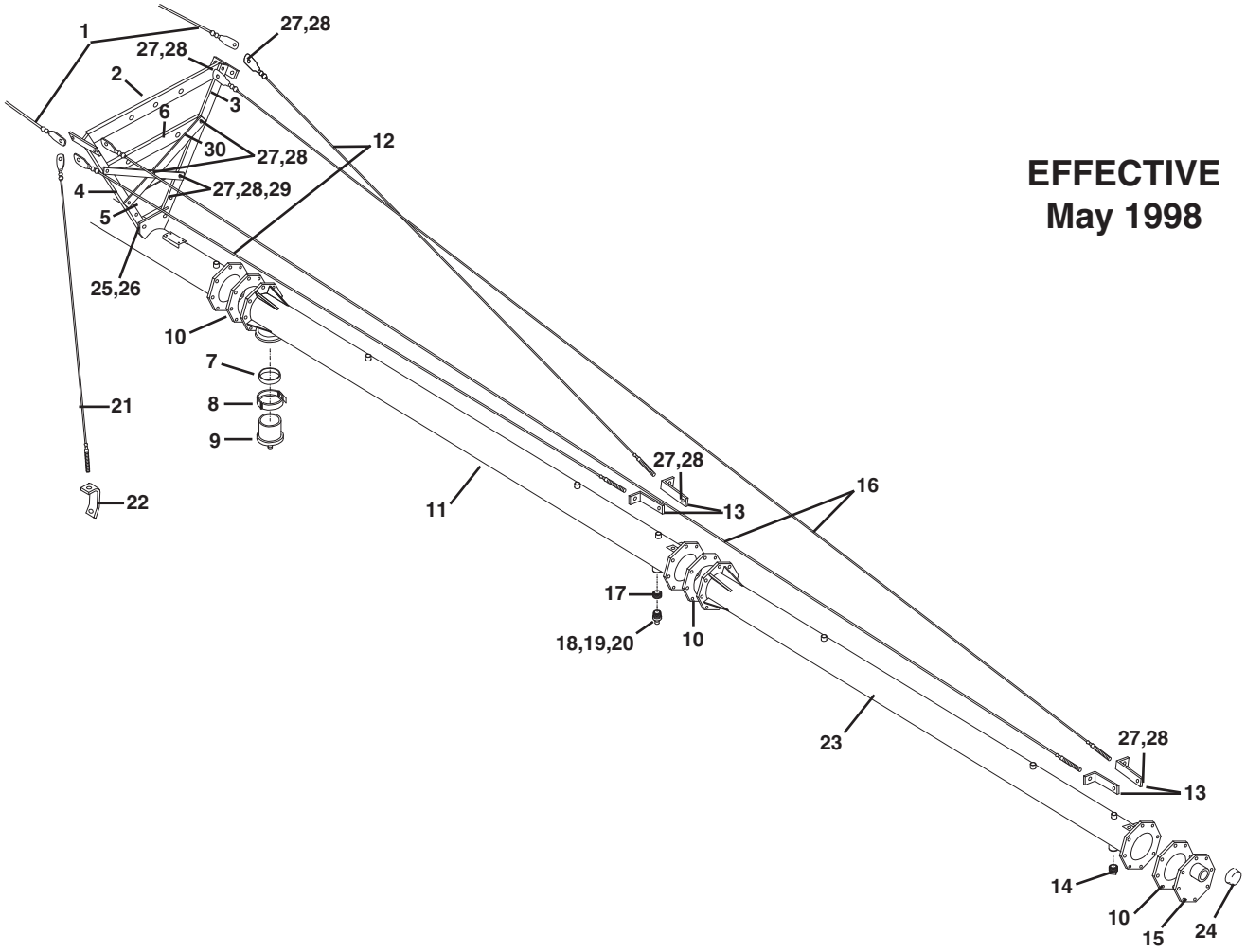


EFFECTIVE
May 1998

ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228*
3	R.H. Overhang Truss	9360045*
4	L.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*

*COMPLETE Overhang Truss Kit KA01187

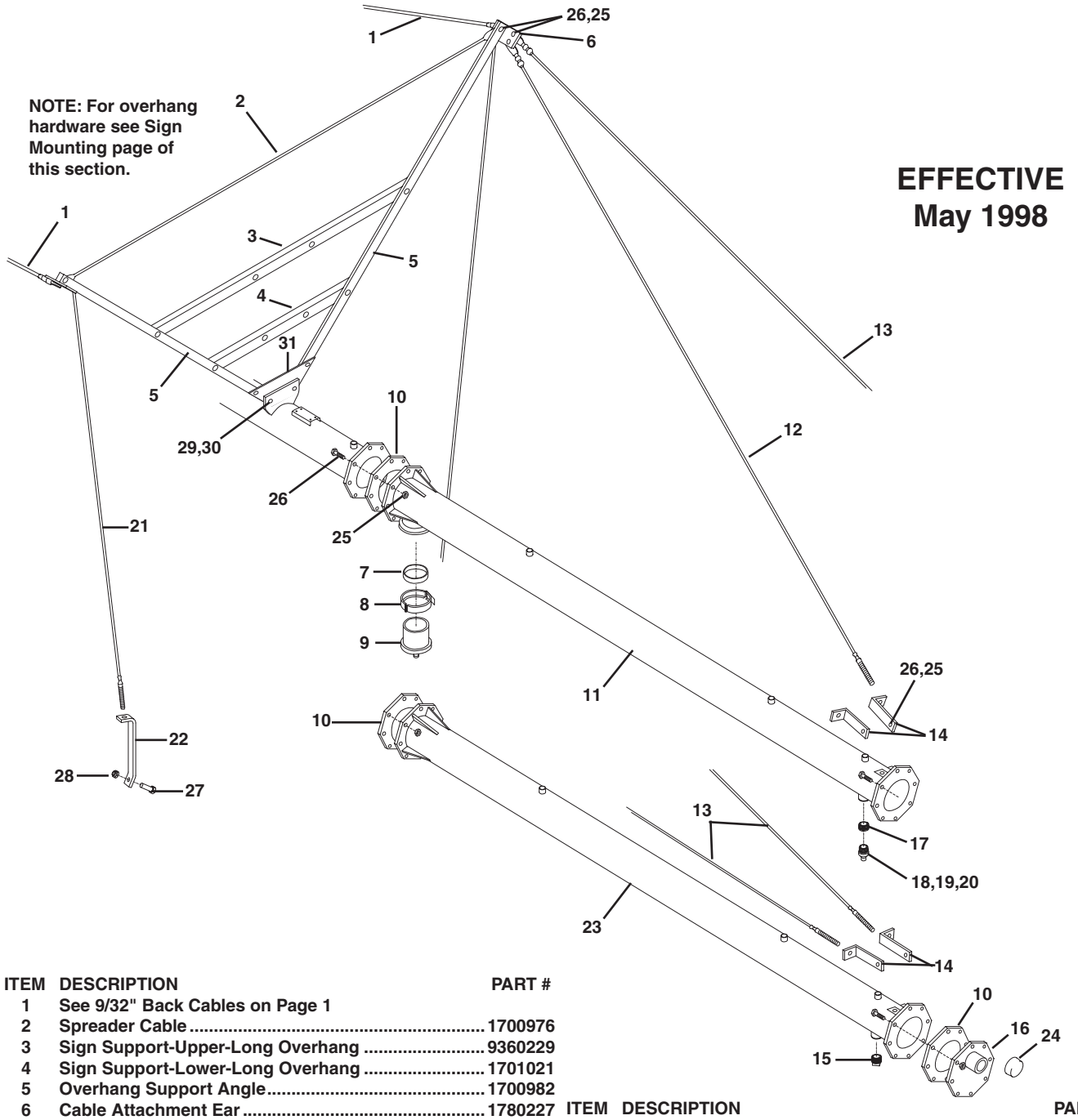
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EFFECTIVE
May 1998

ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228*
3	R.H. Overhang Truss	9360045*
4	L.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] Spac.	9360647
	18'[5.49m]-4" Dia. O.H. Pipe 30"[76.2cm] Spac.	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*
	* COMPLETE O/H Truss Kit	KA01187

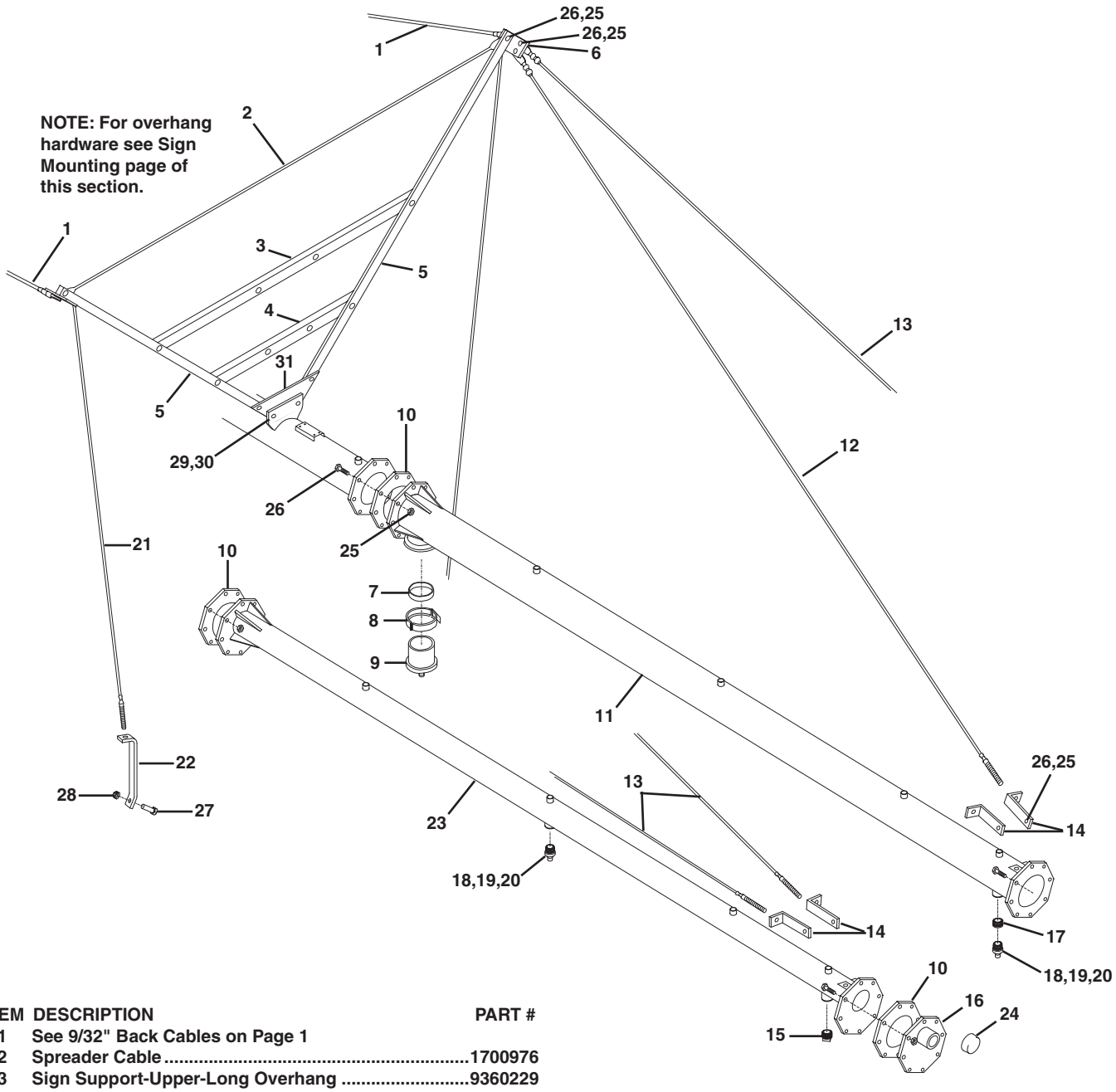
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ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling 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
20	Lower Drain Body	0232004

ITEM	DESCRIPTION	PART #
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" Lock Nut	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

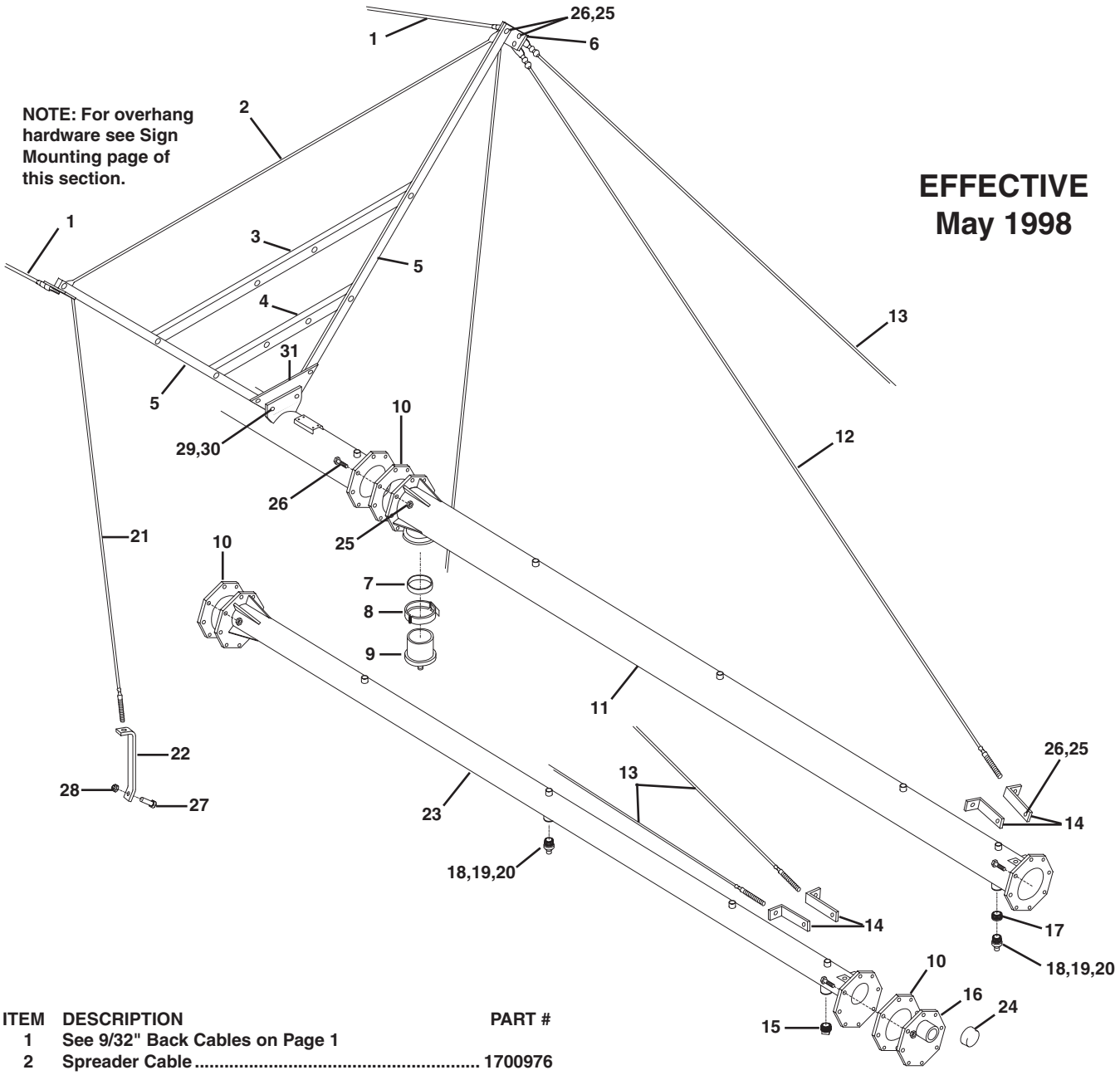
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ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling 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

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 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

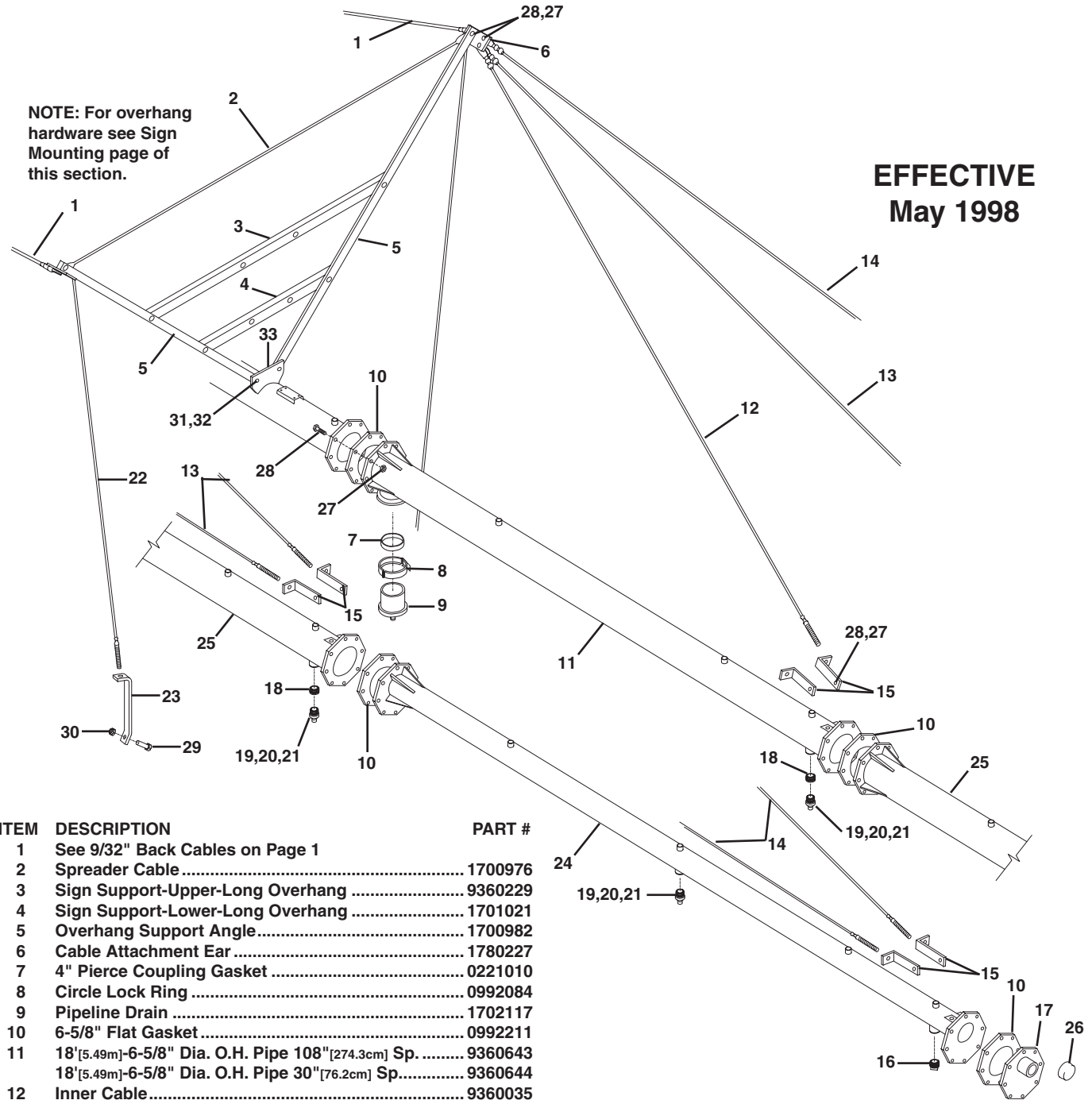
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ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling 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
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 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	3/4" x 1-3/4" Cap Screw	0161139
30	3/4" Lock Nut	0133011
31	Trapezoid Plate	9363792

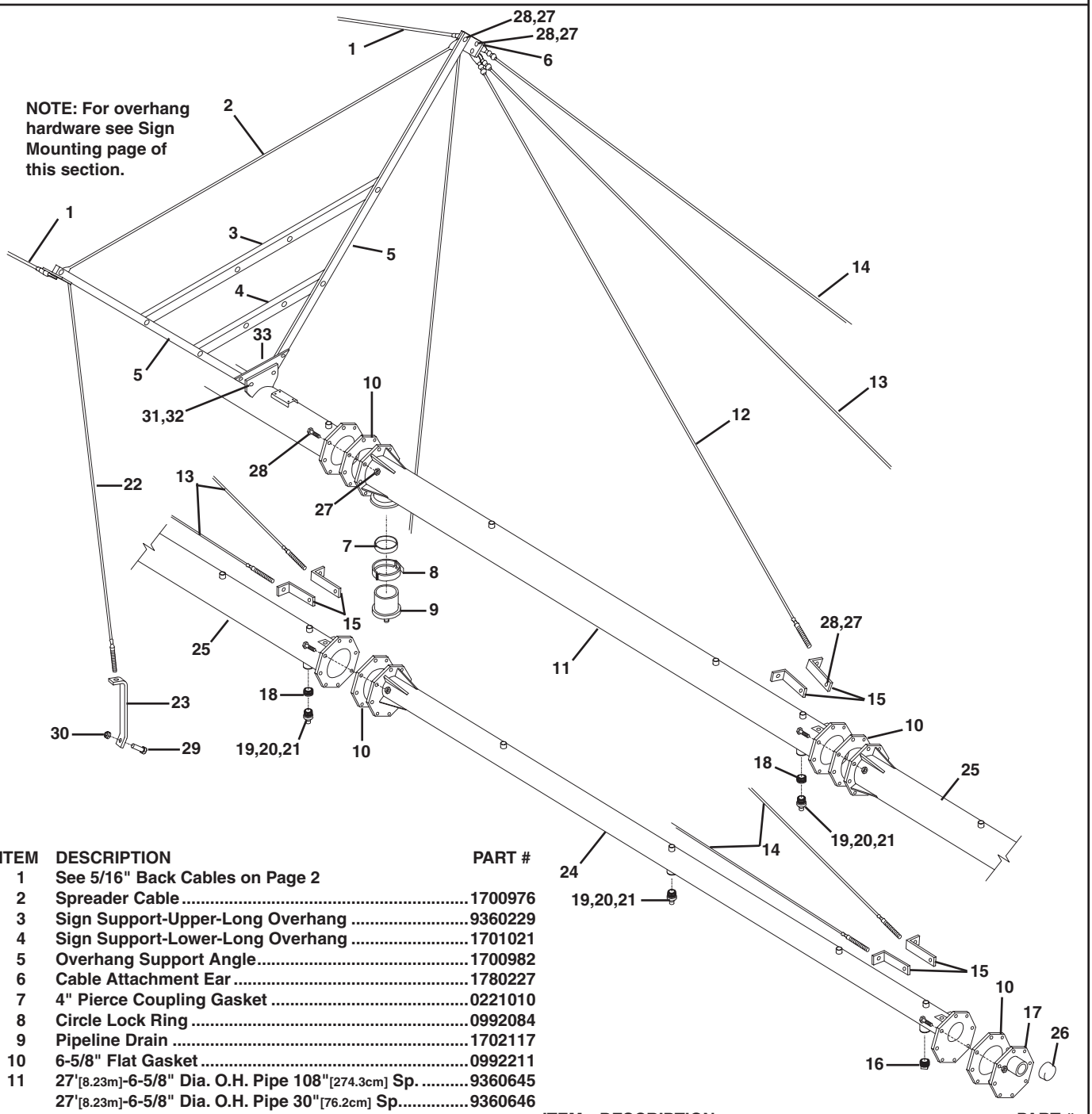
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ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling 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
23	Cable Support Brkt (Std, Low & Ultra-High Profile)	9360196
	Cable Support Bracket (High Profile)	1780828

ITEM	DESCRIPTION	PART #
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" Lock Nut	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

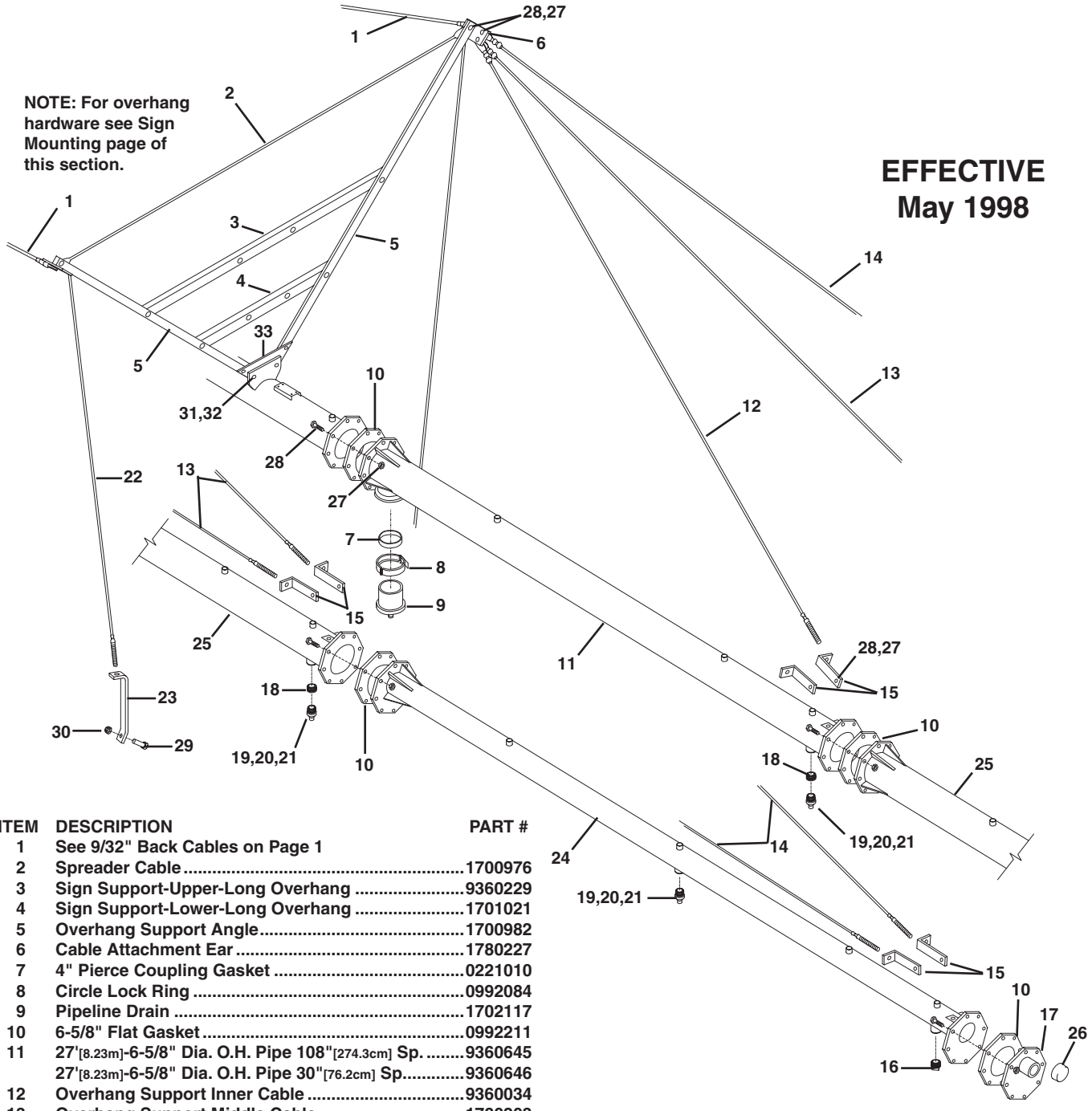
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ITEM	DESCRIPTION	PART #
1	See 5/16" Back Cables on Page 2	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling 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

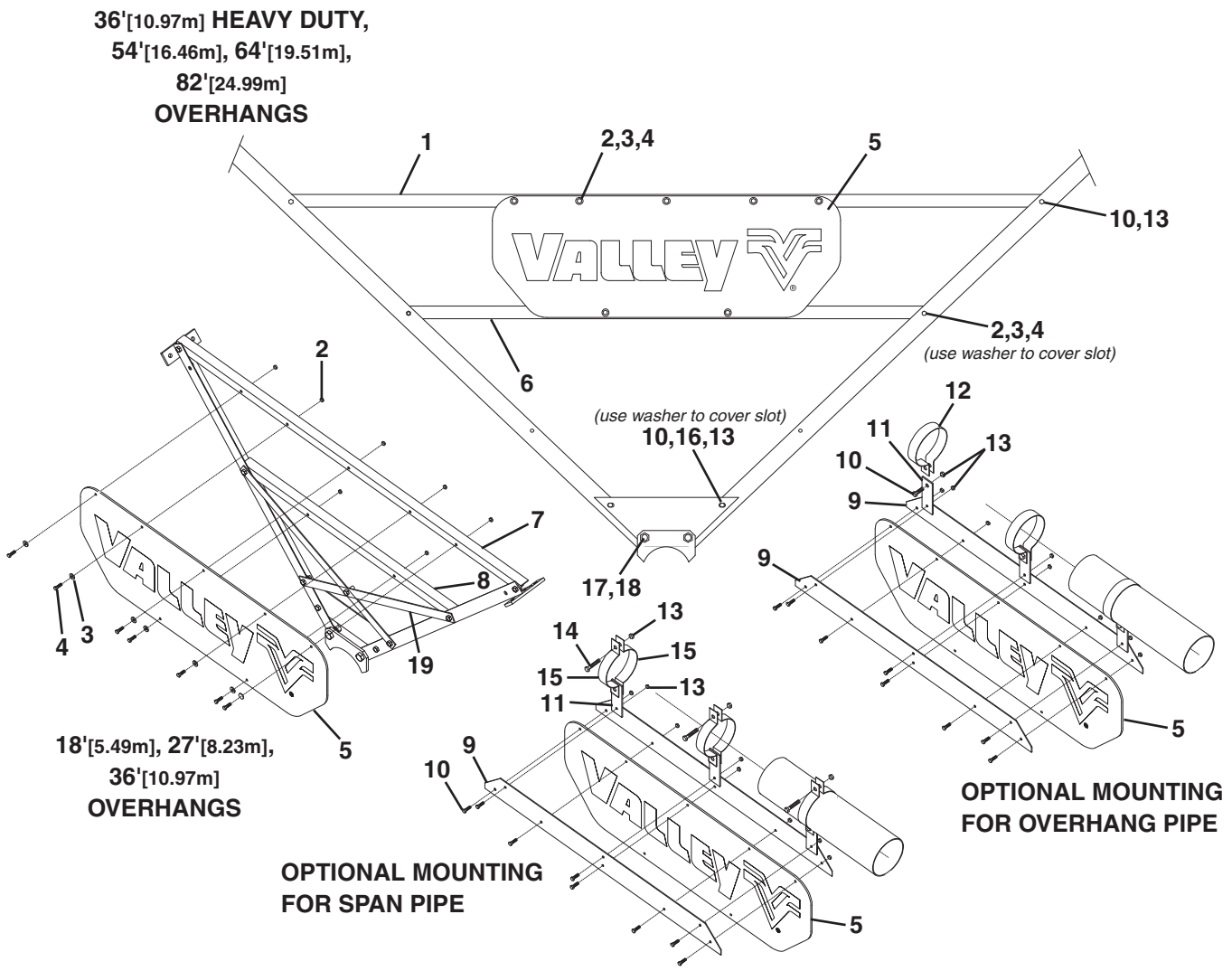
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ITEM	DESCRIPTION	PART #
1	See 9/32" Back Cables on Page 1	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling 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
23	Cable Support Brkt (Std, Low & Ultra-High Prof)	9360196
	Cable Support Bracket (High Profile)	1780828

ITEM	DESCRIPTION	PART #
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	3/4" x 1-3/4" Cap Screw	0161139
32	3/4" Lock Nut	0133011
33	Trapezoid Plate	9363792

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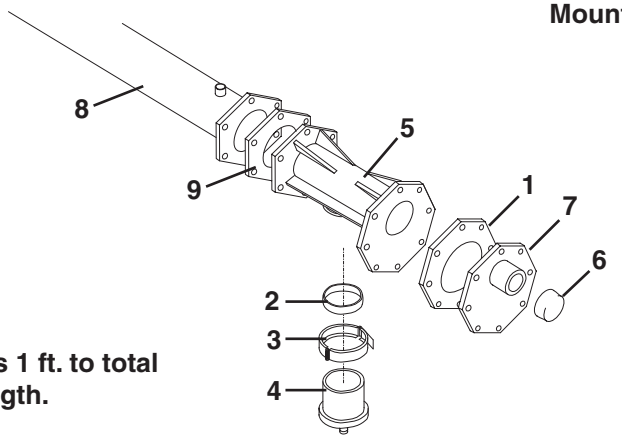


ITEM	DESCRIPTION	PART #
1	Sign Support-Upper-Long Overhang	9360229
2	5/16" Lock Nut	0133007
3	5/16" Flat Washer	0142017
4	5/16" x 1" Cap Screw	0161052
5	Valley Sign - 8000 series	0997285
6	Sign Support-Lower-Long Overhang	1701021
7	Sign Support-Upper	9360228
8	Sign Support-Lower	9360227
9	Sign Reinforcing 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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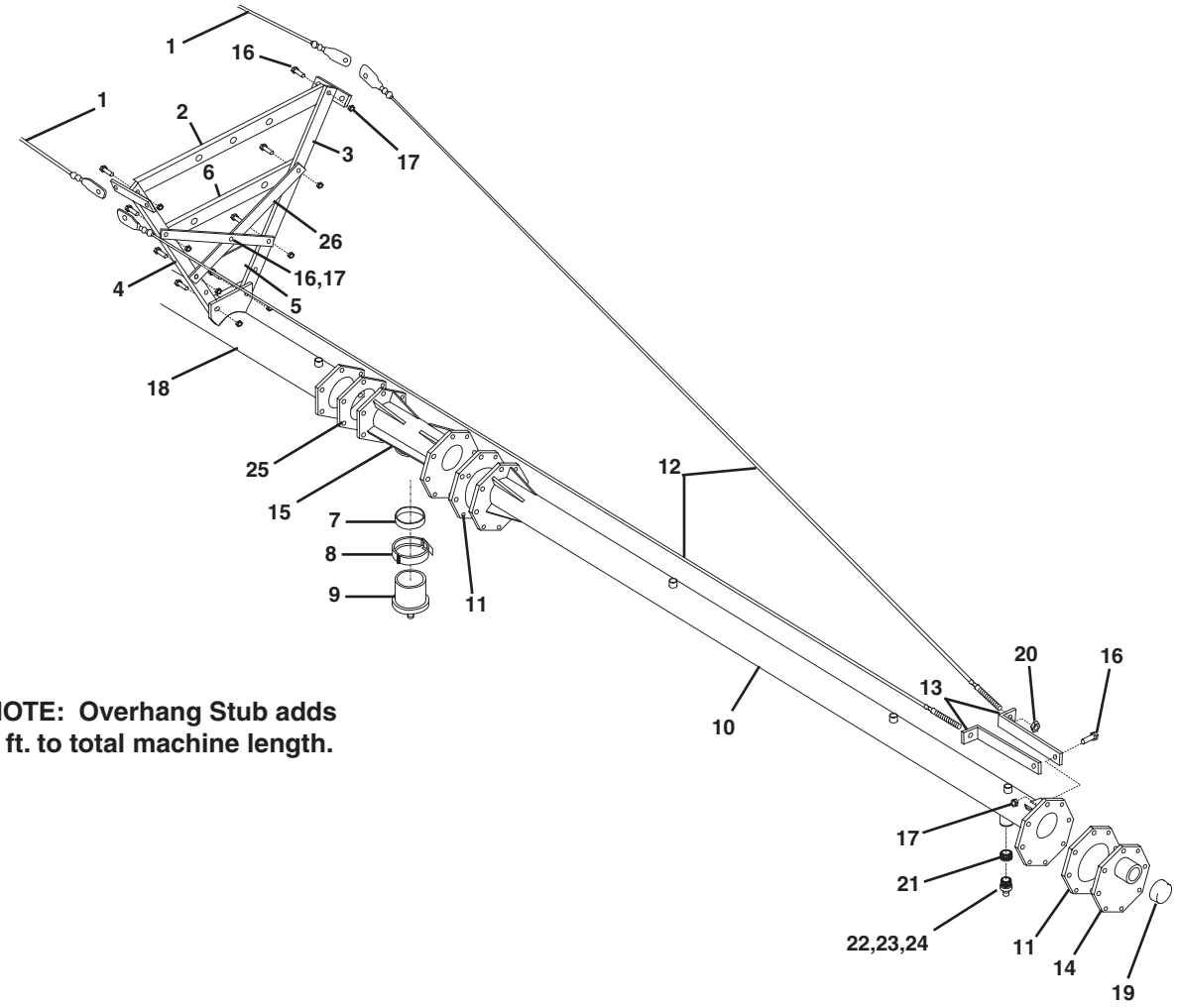
NOTE: No Overhang includes hardware for mounting Valley Sign on 5" Span Pipe. See Sign Mounting page this section.



NOTE: Adds 1 ft. to total machine length.

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	Overhang Pipe Stub	9360931
6	Pipe Cap	0246046
7	6-5/8" End Plate	1800036
8	Last Pipe Stub, 5"	9360919
9	5" Urethane Gasket	0996071

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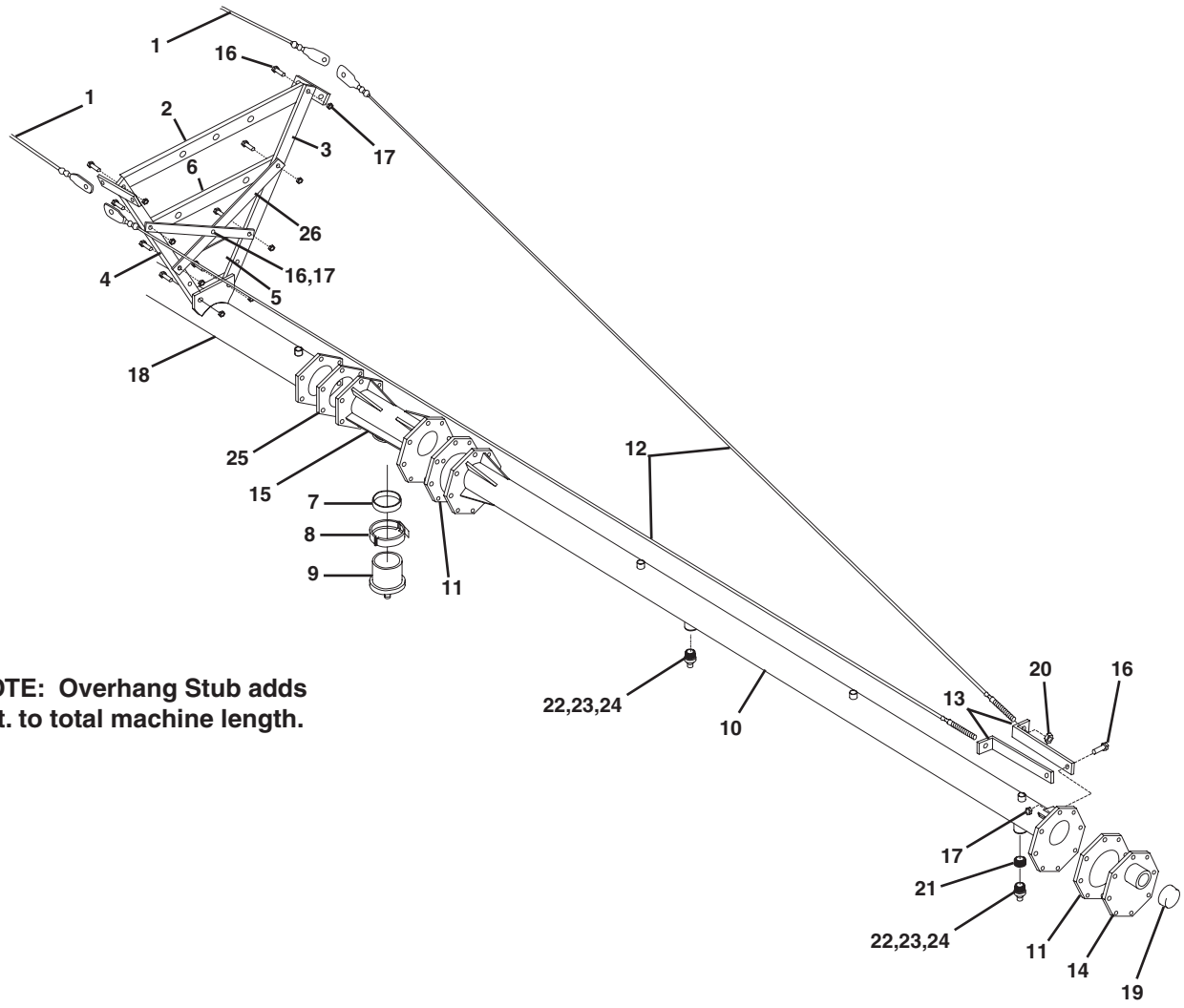
NOTE: Overhang Stub adds 1 ft. to total machine length.

ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg 1)	
2	Sign Support-Upper	9360228*
3	R.H. Overhang Truss	9360045*
4	L.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	18'[5.49m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360641
11	6-5/8" Rubber Gasket	0992211
12	Overhang Support Cable	1780200
13	Cable Support Bracket	9360930
14	6-5/8" End Plate	1800036

ITEM	DESCRIPTION	PART #
15	Overhang Stub Pipe	9360931
16	1/2" x 1-1/4" Cap Screw	0161027
17	1/2" Lock Nut	0133005
18	Last Pipe	9360919
19	Pipe Cap	0246046
20	3/4" Nut	0131008
21	2" x 1" Bushing	0244028
22	Upper Drain Body	0246170
23	Drain Seal	0232568
24	Lower Drain Body	0232004
25	5" Urethane Gasket	0996071
26	Brace Strap	9361716*

* COMPLETE Overhang Truss Kit KA01187

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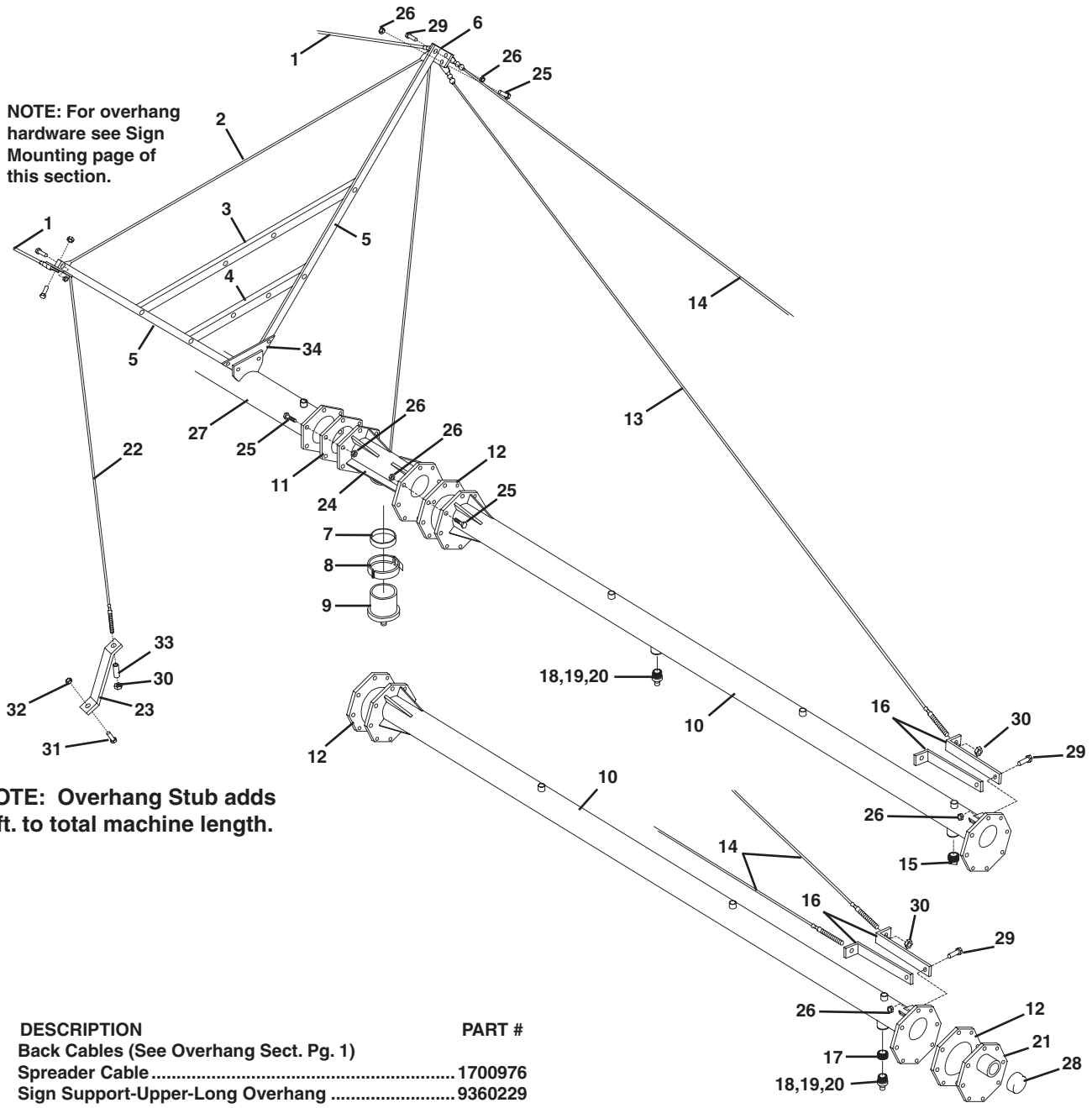


NOTE: Overhang Stub adds 1 ft. to total machine length.

ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg 1)	
2	Sign Support-Upper	9360228*
3	R.H. Overhang Truss	9360045*
4	L.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	27'[8.23m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	1781323
11	6-5/8" Rubber Gasket	0992211
12	Overhang Support Cable	1780201
13	Cable Support Bracket	9360930
14	6-5/8" End Plate	1800036

ITEM	DESCRIPTION	PART #
15	Overhang Stub Pipe	9360931
16	1/2" x 1-1/4" Cap Screw	0161027
17	1/2" Lock Nut	0133005
18	Last Pipe	9360919
19	Pipe Cap	0246046
20	3/4" Nut	0131008
21	2" x 1" Bushing	0244028
22	Upper Drain Body	0246170
23	Drain Seal	0232568
24	Lower Drain Body	0232004
25	5" Urethane Gasket	0996071
26	Brace Strap	9361716*
	* COMPLETE Overhang Truss Kit	KA01187

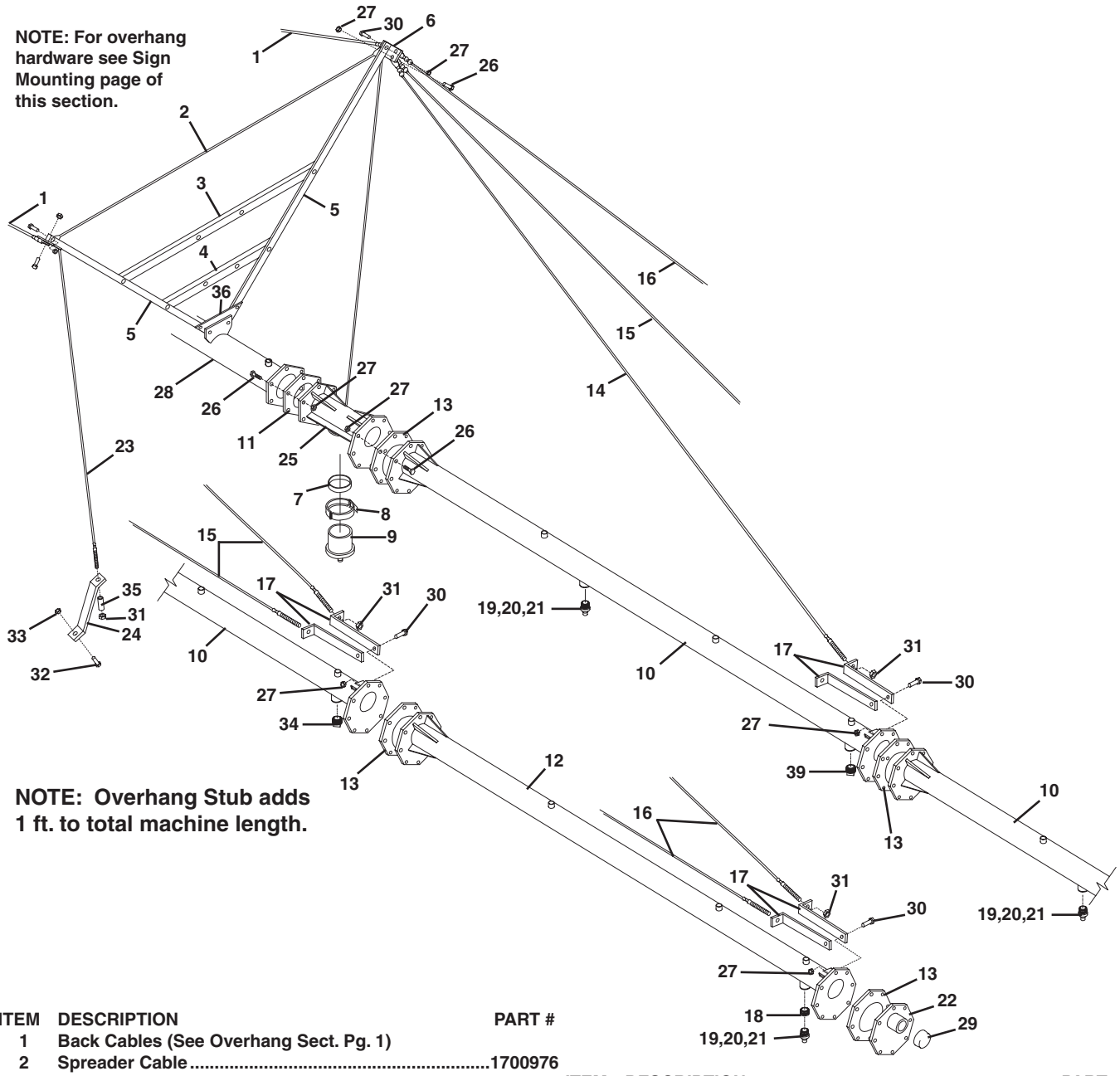
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ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	1781323
11	5" Urethane Gasket	0996071
12	6-5/8" Rubber Gasket	0992211
13	Overhang Support Inner Cable	9360034
14	Overhang Support Middle Cable	1780203
15	2" Pipe Plug	0246011
16	Cable Support Bracket	9360930
17	2" x 1" Bushing	0244028
18	Upper Drain Body	0246170
19	Drain Seal	0232568
20	Lower Drain Body	0232004

ITEM	DESCRIPTION	PART #
21	6-5/8" End Plate	1800036
22	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
23	Cable Support Bracket (Std & Low Profile)	1700975
24	Overhang Stub Pipe	9360931
25	1/2" x 2" Cap Screw	0161024
26	1/2" Lock Nut	0133005
27	Last Pipe	9360919
28	Pipe Cap	0246046
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	Guide Spacer	9360300
34	Trapezoid Plate	9363792

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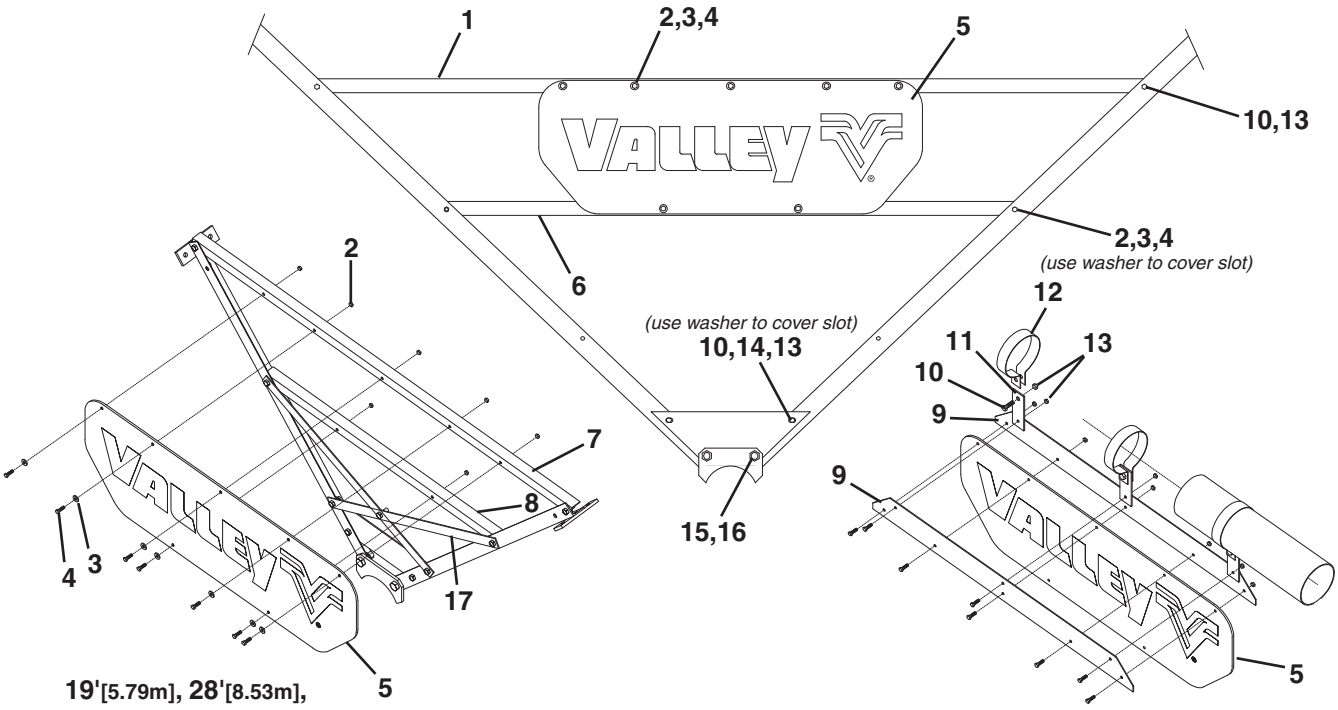


ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	1781323
11	5" Urethane Gasket	0996071
12	18'[5.49m]-4" Dia. O.H. Pipe 30"[76.2cm] Sp.	9360641
13	6-5/8" Rubber Gasket	0992211
14	Overhang Support Inner Cable	9360034
15	Overhang Support Middle Cable	1780203
16	Overhang Support Outer Cable	9360955
17	Cable Support Bracket	9360930
18	2" x 1" Bushing	0244028
19	Upper Drain Body	0246170
20	Drain Seal	0232568

ITEM	DESCRIPTION	PART #
21	Lower Drain Body	0232004
22	6-5/8" End Plate	1800036
23	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
24	Cable Support Bracket (Std & Low Profile)	1700975
25	Overhang Stub Pipe	9360931
26	1/2" x 2" Cap Screw	0161024
27	1/2" Lock Nut	0133005
28	Last Pipe	9360919
29	Pipe Cap	0246046
30	1/2" x 1-1/4" Cap Screw	0161027
31	3/4" Hex Nut	0131008
32	5/8" x 2" Cap Screw	0161014
33	5/8" Lock Nut	0133010
34	2" Pipe Plug	0246011
35	Guide Spacer	9360300
36	Trapezoid Plate	9363792

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56'[17.07m], 83'[25.30m]
OVERHANGS



19'[5.79m], 28'[8.53m],
OVERHANGS

NO OVERHANG
(Mount on 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
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, 5”	9360945*
13	1/2" Lock Nut	0133005
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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PolySpan® - OVERHANGS

Universal Linear - Effective 1/99

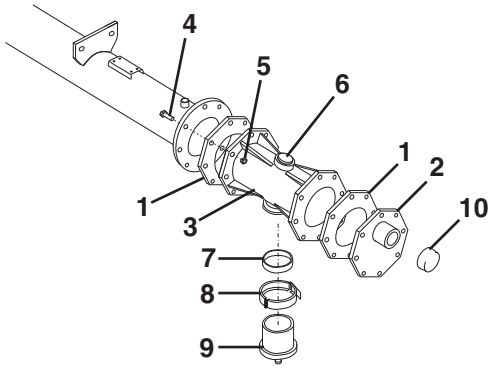
Description	Rev. #	Pg. #
No Overhang	09-08	15-3
10.1'[3.08m] Overhang - EFFECTIVE November 04	11-15	15-4
19.2'[5.85m] Overhang - EFFECTIVE November 04	11-15	15-5
28.5'[8.69m] Overhang - EFFECTIVE November 04	11-15	15-6
37.6'[11.46m] Overhang - EFFECTIVE November 04	08-18	15-7
46.6'[14.20m] Lined Overhang	03-17	15-8
55.9'[17.04m] Unlined Overhang - EFFECTIVE November 04	08-18	15-9
64.7'[19.72m] Unlined Overhang - EFFECTIVE November 04	08-18	15-10
74.0'[22.55m] Lined Overhang	03-16	15-11
83.3'[25.39m] Unlined Overhang - EFFECTIVE November 04	08-18	15-12
Sign Mounting	07-18	15-13

For older versions of product design refer to "PRIOR TO" pages in corresponding section in 8000/8120 Linear Manual.

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8UL150018
08-18

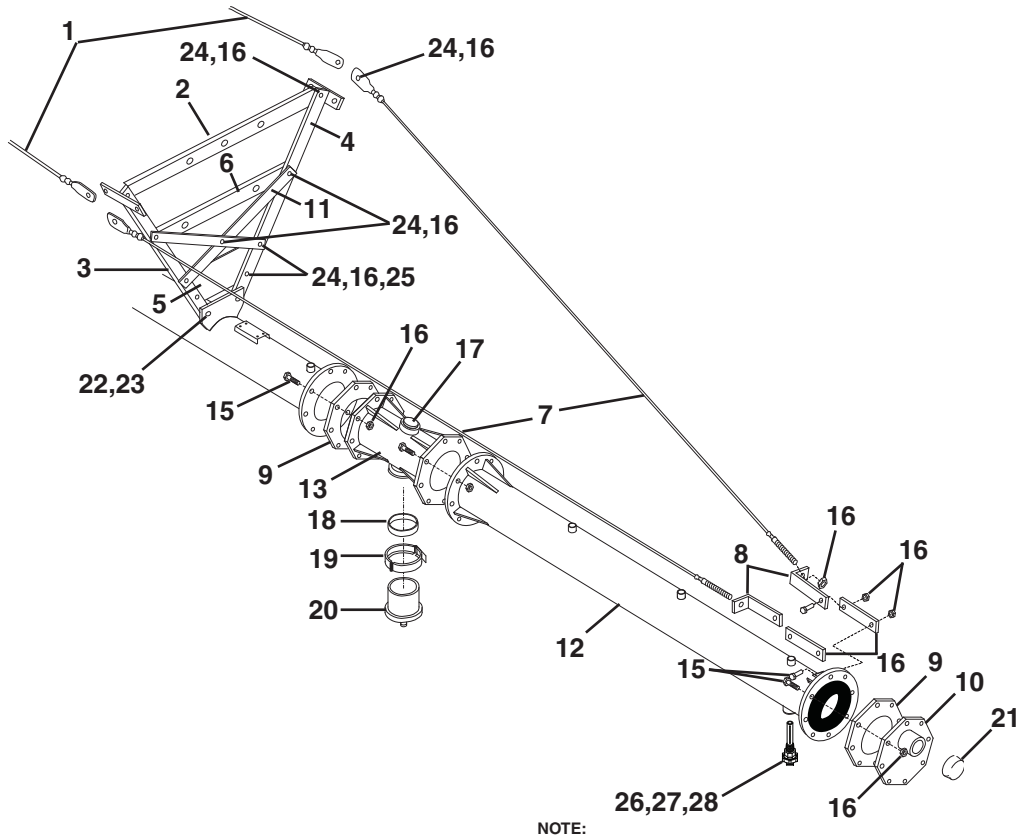
EFFECTIVE
October 2001



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
November 2004



NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

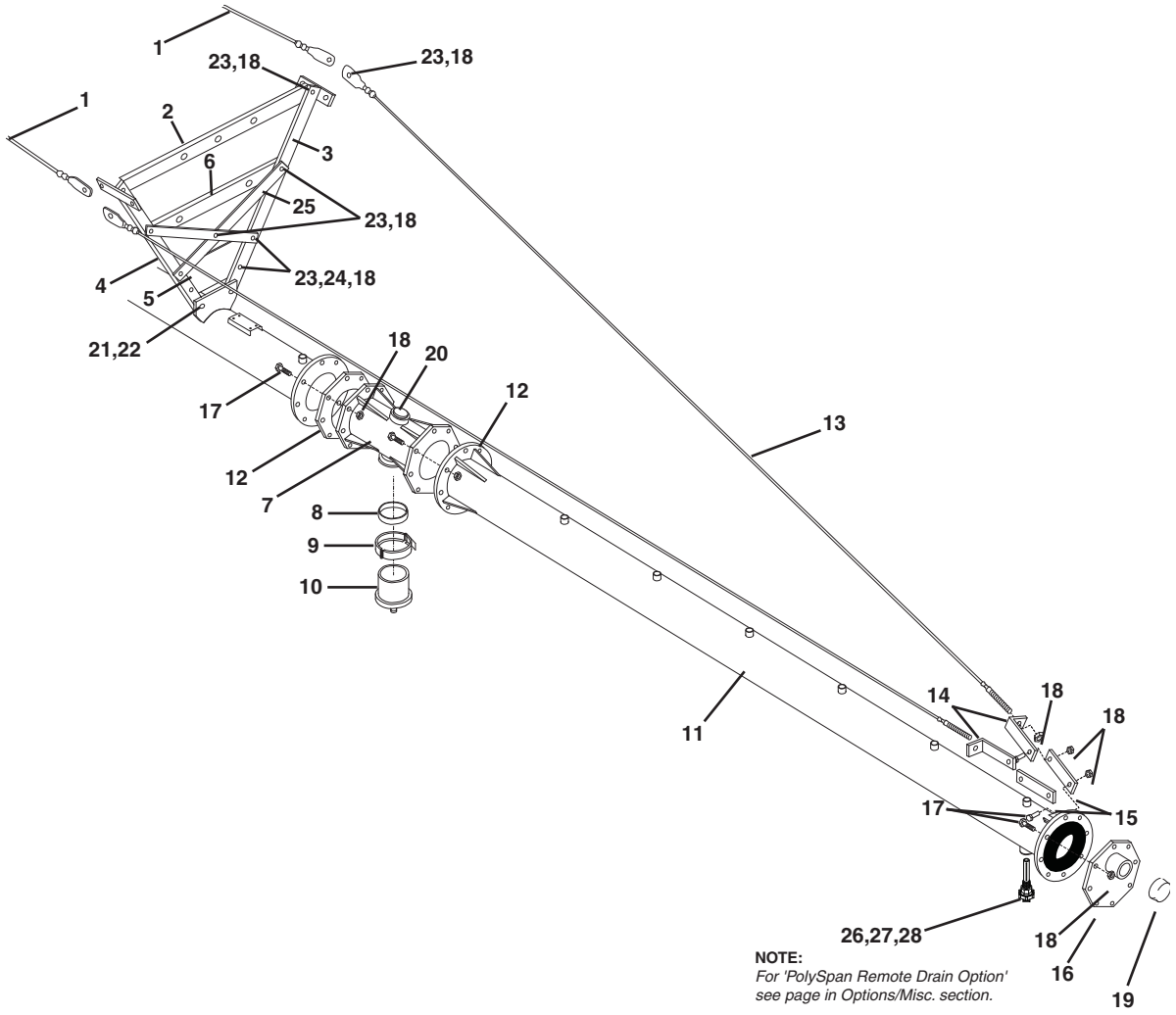
ITEM	DESCRIPTION	PART #
1	See Back Cables on Page 1	
2	Sign Support-Upper	9360228*
3	L.H. Overhang Truss	9360044*
4	R.H. Overhang Truss	9360045*
5	Gusset	1701641*
6	Sign Support-Lower	9360227*
7	Overhang Support Cable	9360316
8	Cable Support Bracket	1900024
9	6-5/8" Flat Gasket	0992211
10	6-5/8" End 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

ITEM	DESCRIPTION	PART #
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
November 2004



NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

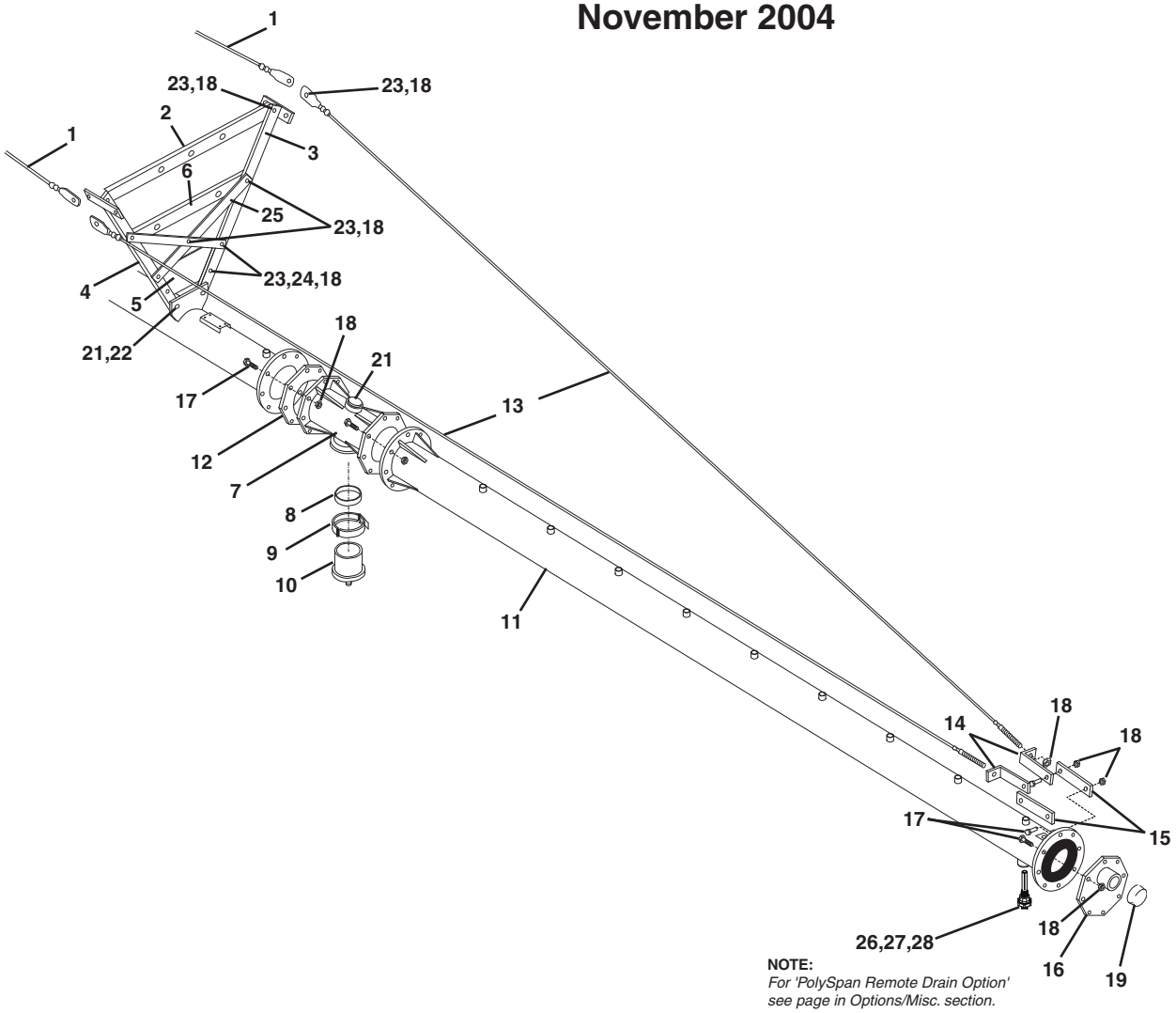
ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg 1)	
2	Sign Support-Upper	9360228*
3	R.H. Overhang Truss	9360045*
4	L.H. Overhang Truss	9360044*
5	Gusset	1701641*
6	Sign Support-Lower	9360227*
7	Spacer, Stainless Steel, w/4° Tip	9360464
8	4" Pierce Coupling Gasket	0221010
9	Circle Lock Ring	0992084
10	Pipeline Drain	1702117
11	18'[5.49m] 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
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
November 2004



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	R.H. Overhang Truss	9360045 *
4	L.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

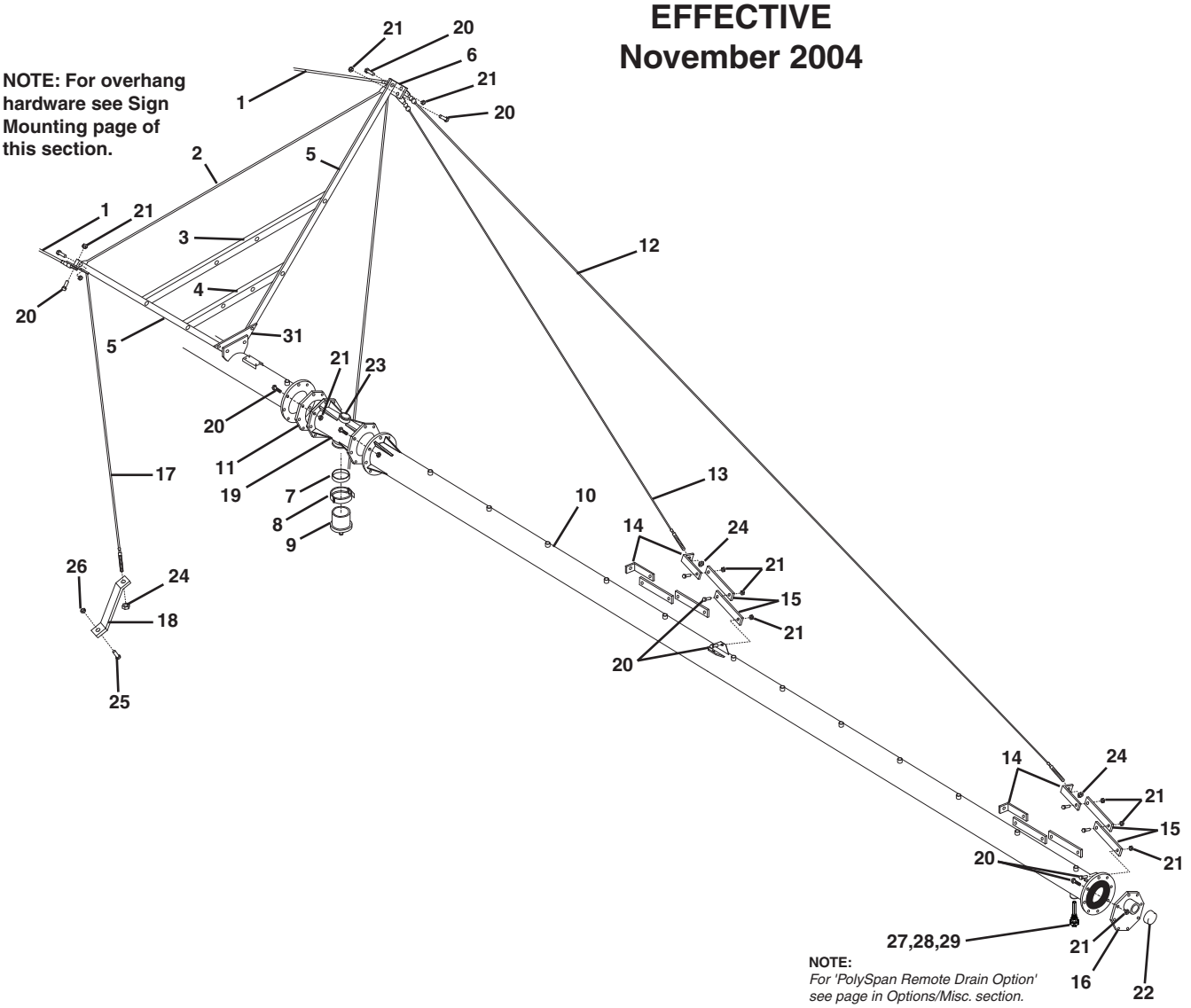
ITEM	DESCRIPTION	PART #
17	1/2" x 2" Cap Screw	0161024
18	1/2" Lock Nut	0133005
19	Pipe Cap	0246046
20	2-1/2" Pipe Plug - Galvanized	0246184
21	3/4" x 1-3/4" Cap Screw	0161139
22	3/4" Lock Nut	0133011
23	1/2" x 1-1/4" Cap Screw	0161027
24	1/2" Flat Washer	0142025
25	Brace Strap	9361716 *
26	3/4" Upper Drain	0246227
27	Drain Seal	0232568
28	Lower Drain	0232004

* COMPLETE Overhang Truss Kit KA01187

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EFFECTIVE
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NOTE: For overhang hardware see Sign Mounting page of this section.

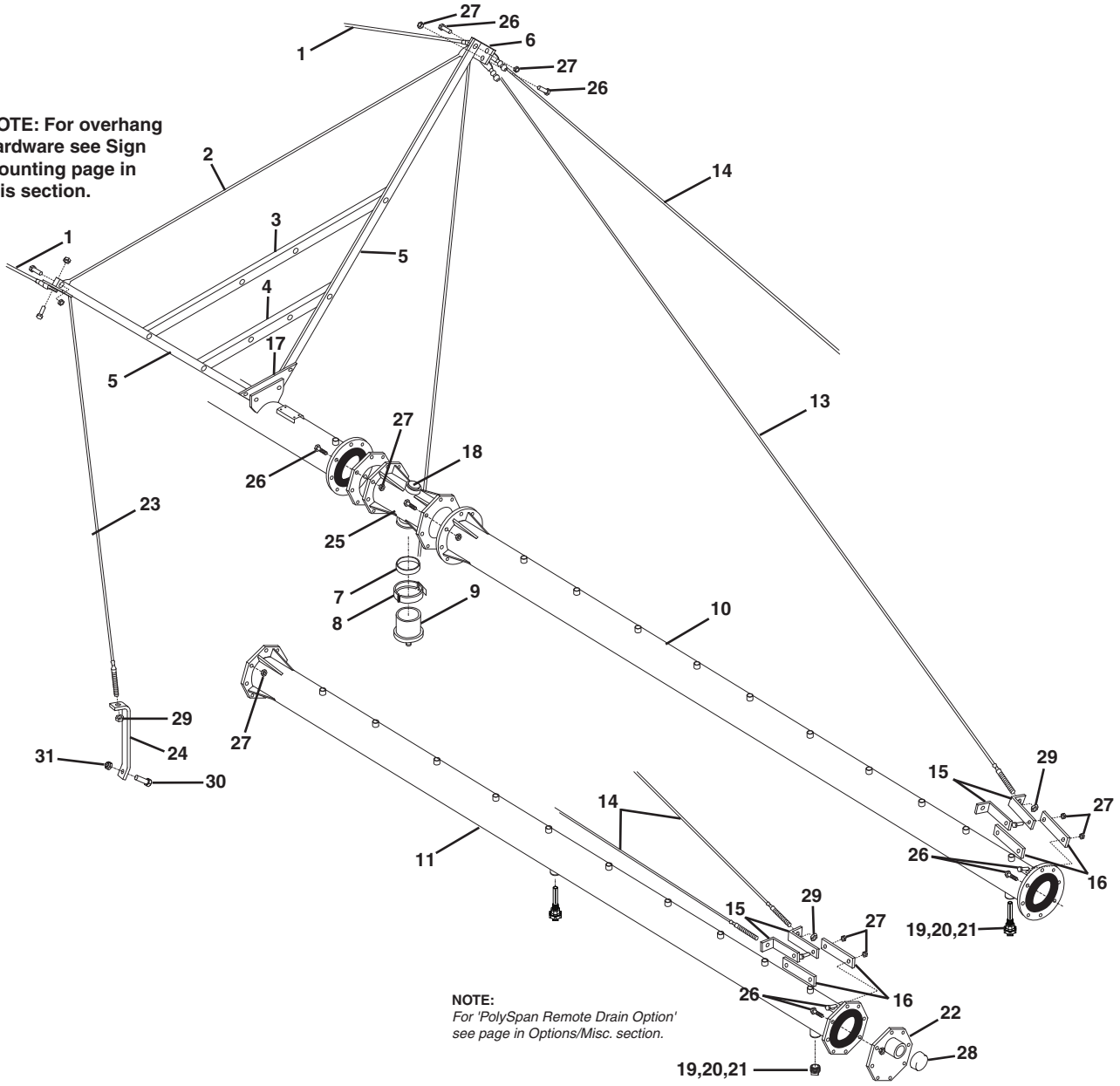


NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

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	0246227
28	Drain Seal	0232568
29	Lower Drain	0232004
30	Trapezoid Plate	9363792

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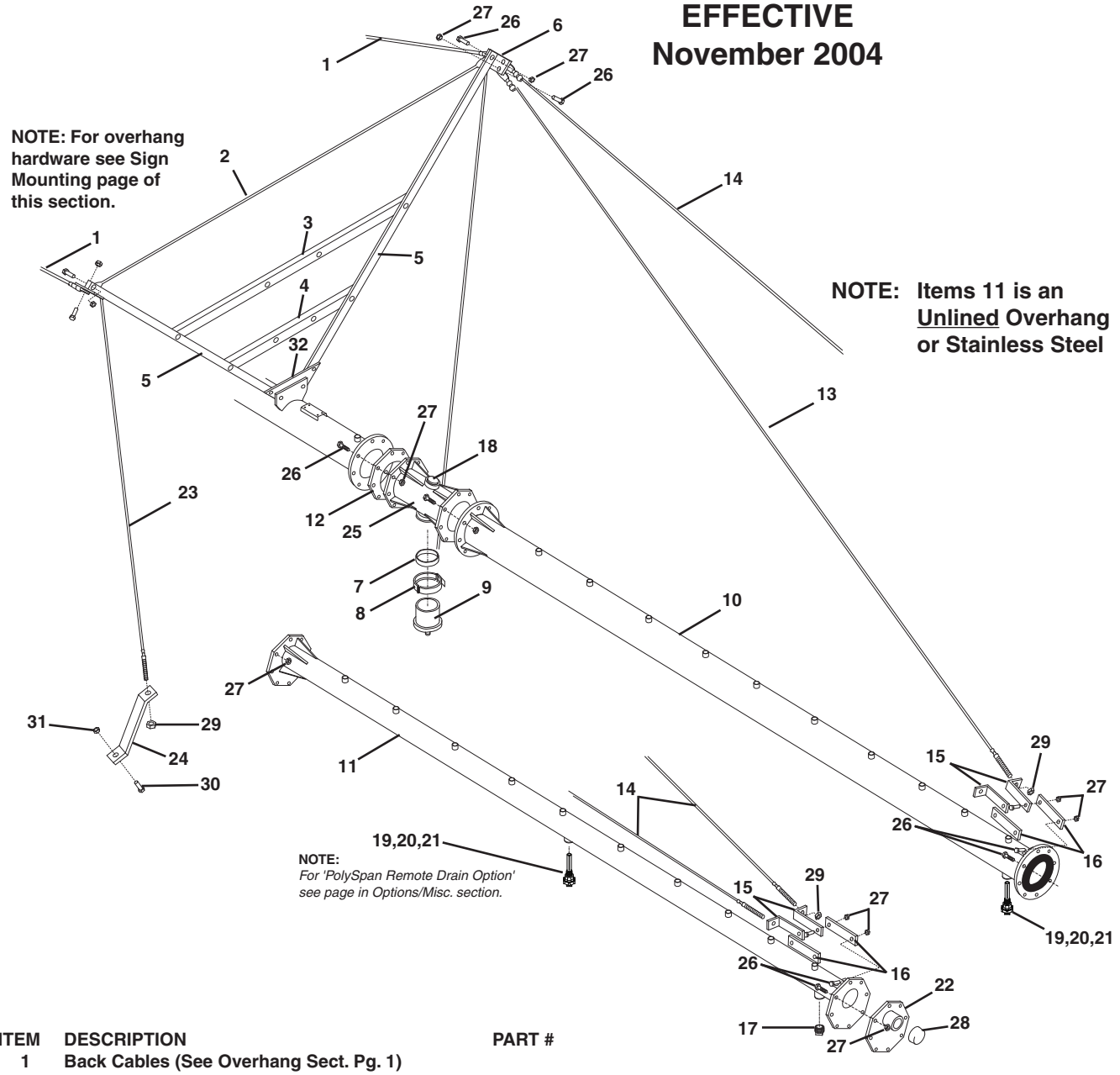


ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
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

ITEM	DESCRIPTION	PART #
19	3/4" Upper Drain Body	0246227
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

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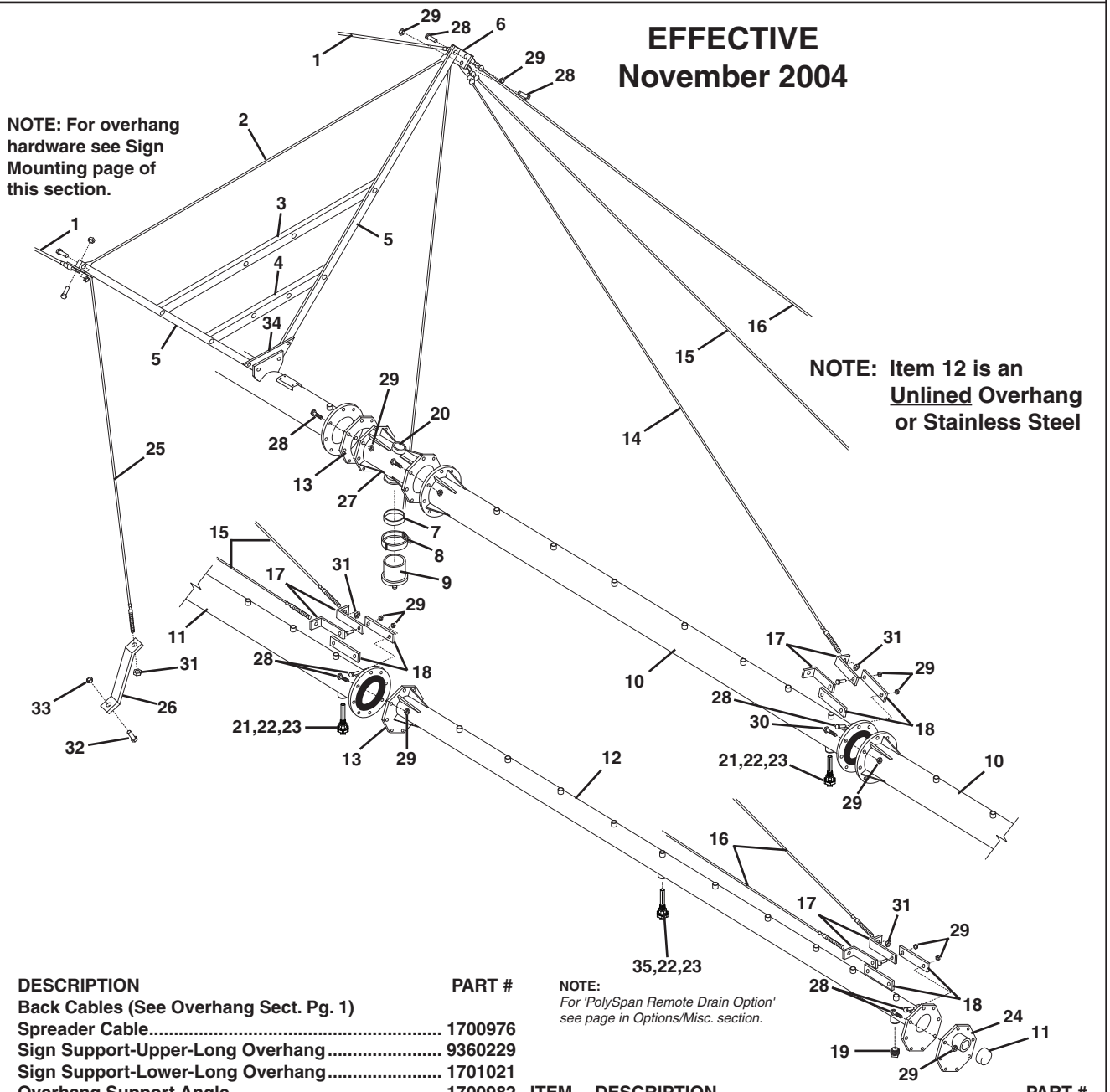


ITEM	DESCRIPTION	PART #
1	Back Cables (See Overhang Sect. Pg. 1)	
2	Spreader Cable	1700976
3	Sign Support-Upper-Long Overhang	9360229
4	Sign Support-Lower-Long Overhang	1701021
5	Overhang Support Angle	1700982
6	Cable Attachment Ear	1780227
7	4" Pierce Coupling Gasket	0221010
8	Circle Lock Ring	0992084
9	Pipeline Drain	1702117
10	27'[8.23m] x 6-5/8" Dia. O.H. Pipe 30"[76.2cm] Sp.	9362695
11	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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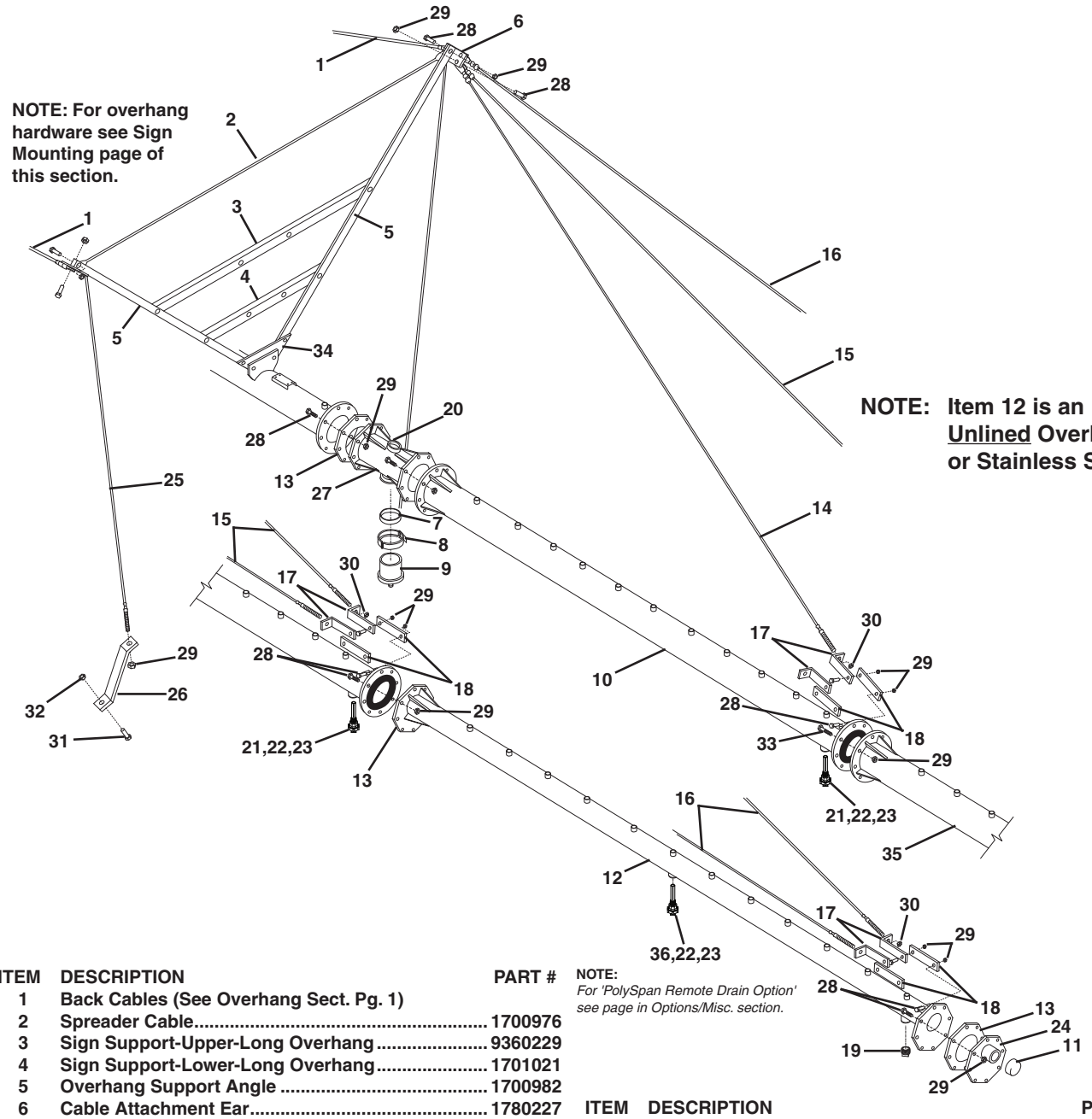
EFFECTIVE
November 2004



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	1/2" x 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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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.

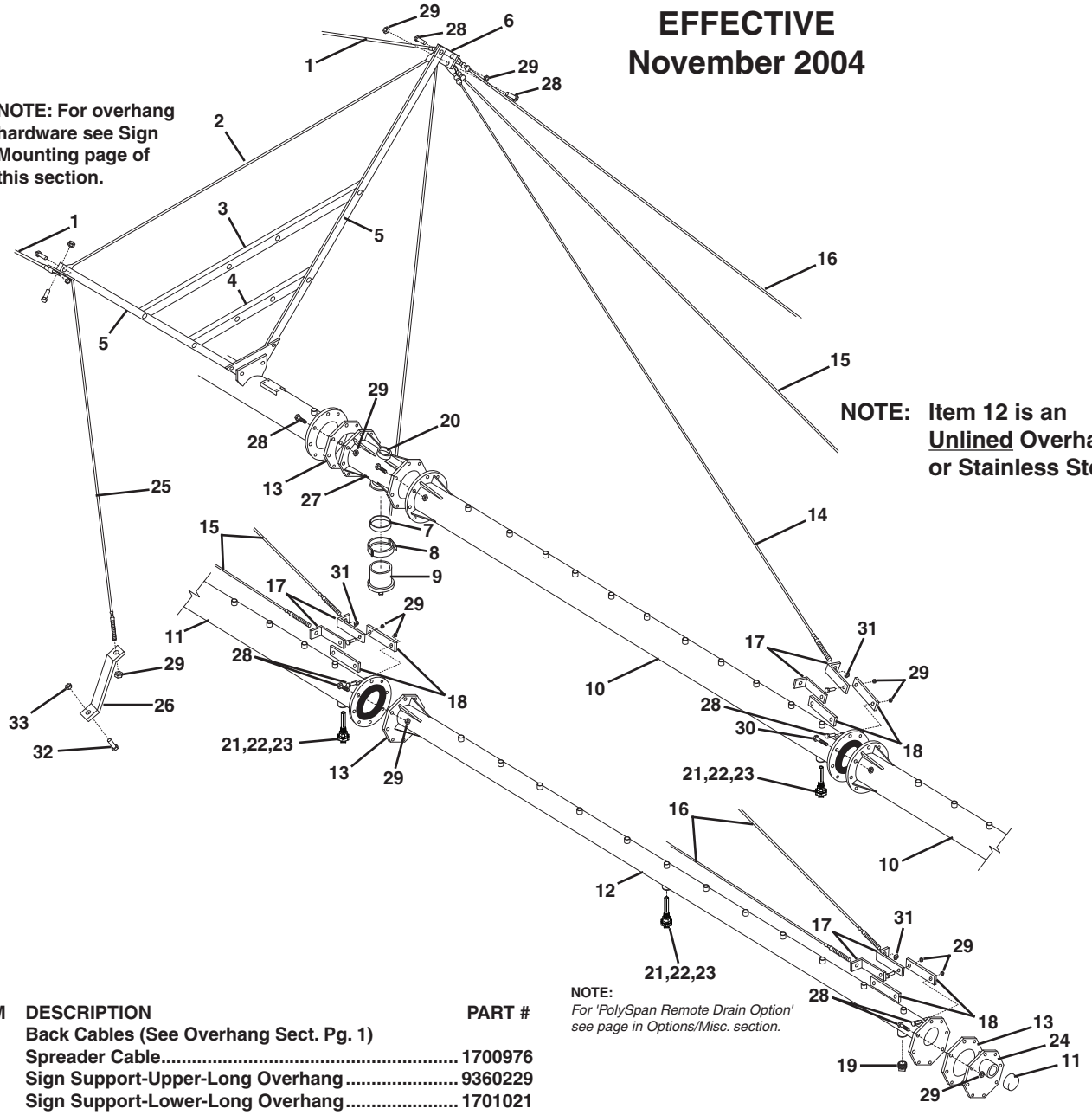
ITEM	DESCRIPTION	PART #
24	6-5/8" End Plate - Galvanized	1800036
	6-5/8" End Plate - Stainless Steel	9363508
25	Support Cable (Std & High Profile)	1780228
	Support Cable (Low Profile)	1780637
	Support Cable (Ultra-High Profile)	9360195
26	Cable Support Brkt (Std, Low & Ultra High Prof)	1700975
	Cable 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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NOTE: For overhang hardware see Sign Mounting page of this section.

NOTE: Item 12 is an Unlined Overhang or Stainless Steel

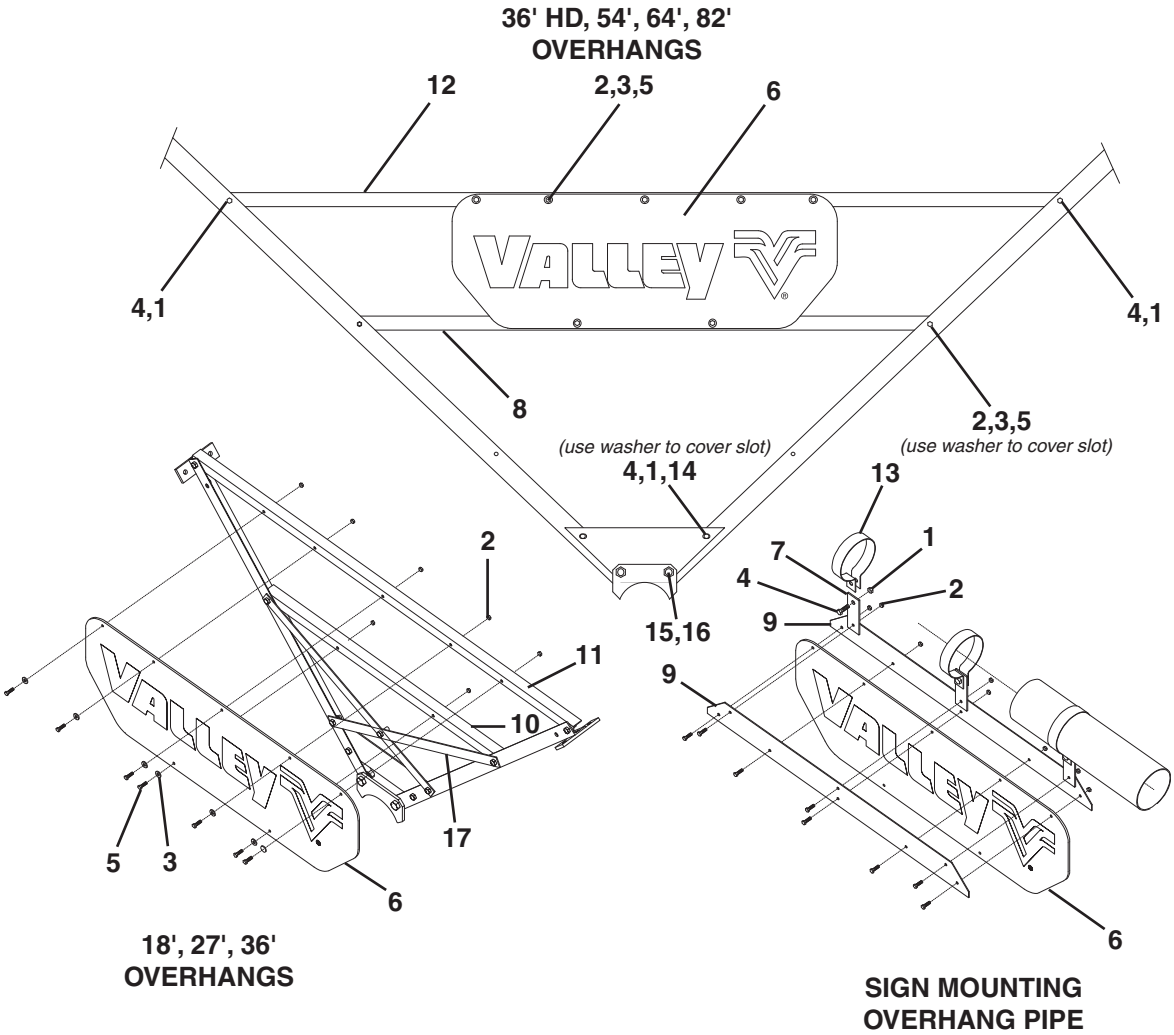


NOTE:
For 'PolySpan Remote Drain Option' see page in Options/Misc. section.

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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**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 PolySpan Sign	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

Universal Linear - Effective 1-18

Description	Rev. #	Pg. #
Shut-off Valve Plumbing	12-15	16-3
End of Field/Hose Stop Switch (Hose Drag)	05-15	16-4
Automated Universal Linear Auto Reverse / Auto Stop	04-16	16-5
End of Field Stop/Auto Reverse (Ditch Feed)	05-15	16-6
Chemigation Unit Platform & Maintenance Platform	08-15	16-7
Earth and Concrete Anchors	04-16	16-8
Cord Drag & Winch	07-13	16-9
Cord Drag for Centerfeed Ditch Straddle	07-13	16-10
Universal Linear Towable Option - Domestic Use ONLY	05-16	16-11
Universal Linear Towable Option - International Use ONLY	05-16	16-12
2 H.P. Booster Pump	02-10	16-13
Standard 5 H.P. Booster Pump (Low Head, High Flow)	03-07	16-14
Optional 5 H.P. Booster Pump (High Head, Low Flow)	03-07	16-15
7.5 H.P. Booster Pump	09-10	16-16
Booster Pump Plumbing	12-17	16-17
End Gun Cross Filter Plumbing	04-04	16-18
End Gun Filter Plumbing Dirty Water	11-04	16-19
Hose Drag Cart Dirty Water Filter Plumbing	11-04	16-20
Running Light	02-19	16-21
Blue, Amber or Red Strobe Light	10-00	16-22
Strobe Running Light	11-15	16-23
Maintenance Light - Control Panel Mounting w/Vibration Mounts	01-17	16-24
Maintenance Light - Standard Control Panel Mounting	01-17	16-25
Motor Cover	06-10	16-26
Safety Caution Decals	04-02	16-27
Safety Danger Decals	03-17	16-28
Safety Warning Decals	03-12	16-29
End of Field Stop Auto Reverse Assembly	07-16	16-30
End of Field Stop Actuator Detail	02-15	16-31
Tower Junction Box	12-14	16-32
A.R.A.S. Internal Switch Box - EFFECTIVE June 01	12-17	16-33
End of Field Internal Switch Box - EFFECTIVE June 01	05-17	16-34
Booster Pump Box - with Solenoid	10-18	16-35
Booster Pump Box - without Solenoid	12-17	16-36
End of Field Safety Barricade Skid Style - EFFECTIVE August 99	10-15	16-37
End of Field Safety Barricade Post Style	07-16	16-38
Pressure Gauge Plumbing	04-07	16-39
12" & 14" Flow Meter	09-16	16-40

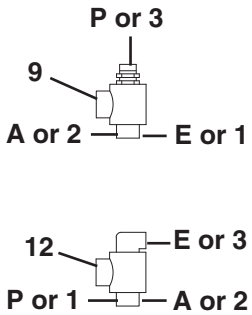
For older versions of product design refer to "PRIOR TO" pages in corresponding section in 8000/8120 Linear Manual.

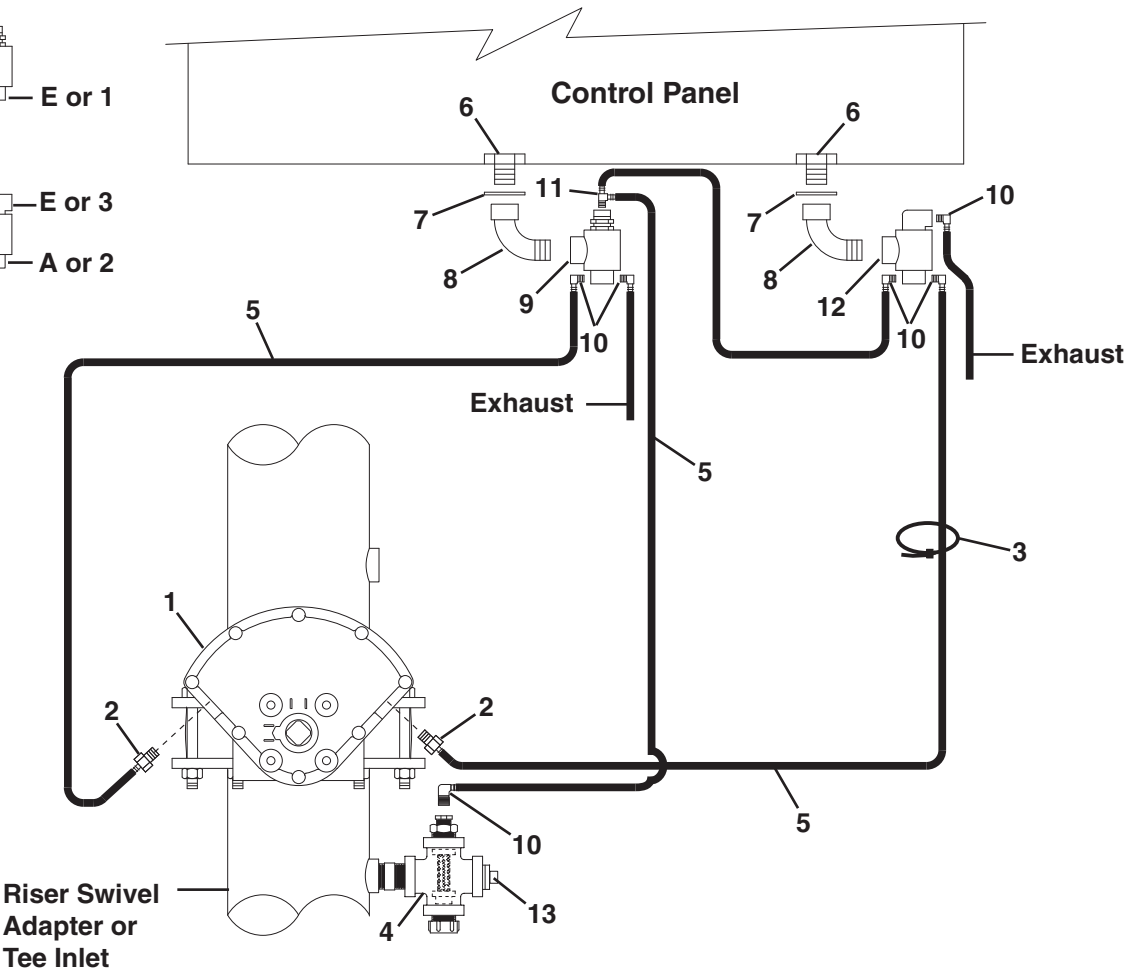
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Description	Rev. #	Pg. #
Anti-Corrosion Anode	05-01	16-41
Universal Linear Towable Option	05-16	16-42
Hydraulic Jack	07-15	16-43
6” and 4-3/4” Soft Hose Riser Connection	01-08	16-44
Agri-TRAC	01-14	16-45
Tapered Gearbox Shim	03-10	16-46
Linear GPS Positioning	06-18	16-47
Heavy Duty Cable Clamp	08-08	16-48
Remote Drain	02-13	16-49
PolySpan Remote Drain	11-17	16-50
Drop Span Tower Box	10-18	16-51
Drop Span	07-12	16-52
Drop Span - Overall	08-17	16-53
Drop Span - Lifting Hardware	06-16	16-54
Drop Span - Stop Switch	07-12	16-55
Drop Span - Platform	06-15	16-56
Drop Span - Alignment Hardware	07-12	16-57
Drop Span - Komet End Gun	07-12	16-58
Drop Span - Manual End Gun	07-12	16-59
Cable Theft Deterrent - Flange Cover, Flashing & Clamps	07-12	16-60
Cable Theft Deterrent - Motor Lead Guard & Tower Box Fittings	09-18	16-61
Cable Theft Deterrent - Collector Ring Fittings	07-12	16-62
600V Lightning Arrestor	09-18	16-63

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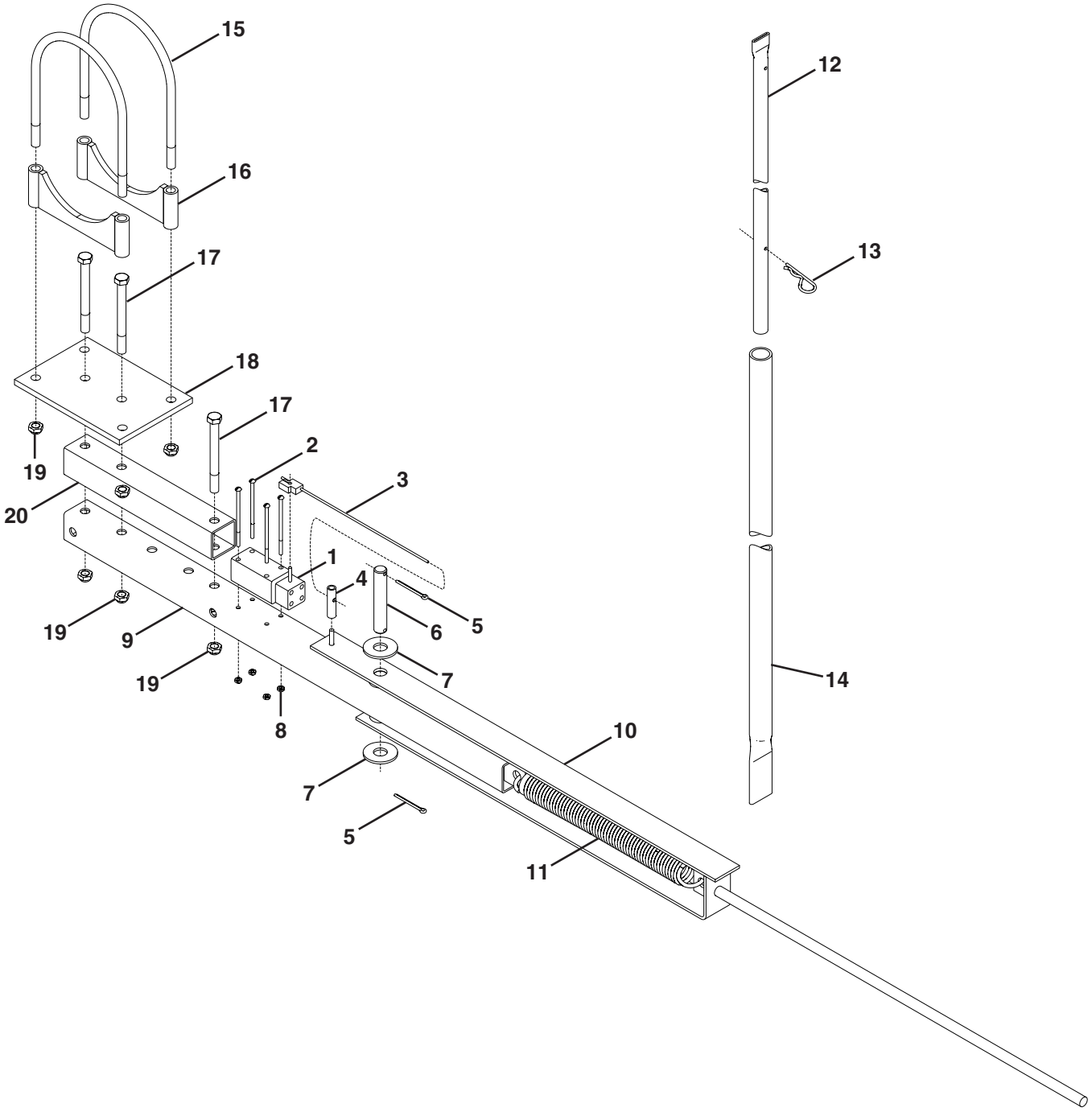
Valve Port
Identification





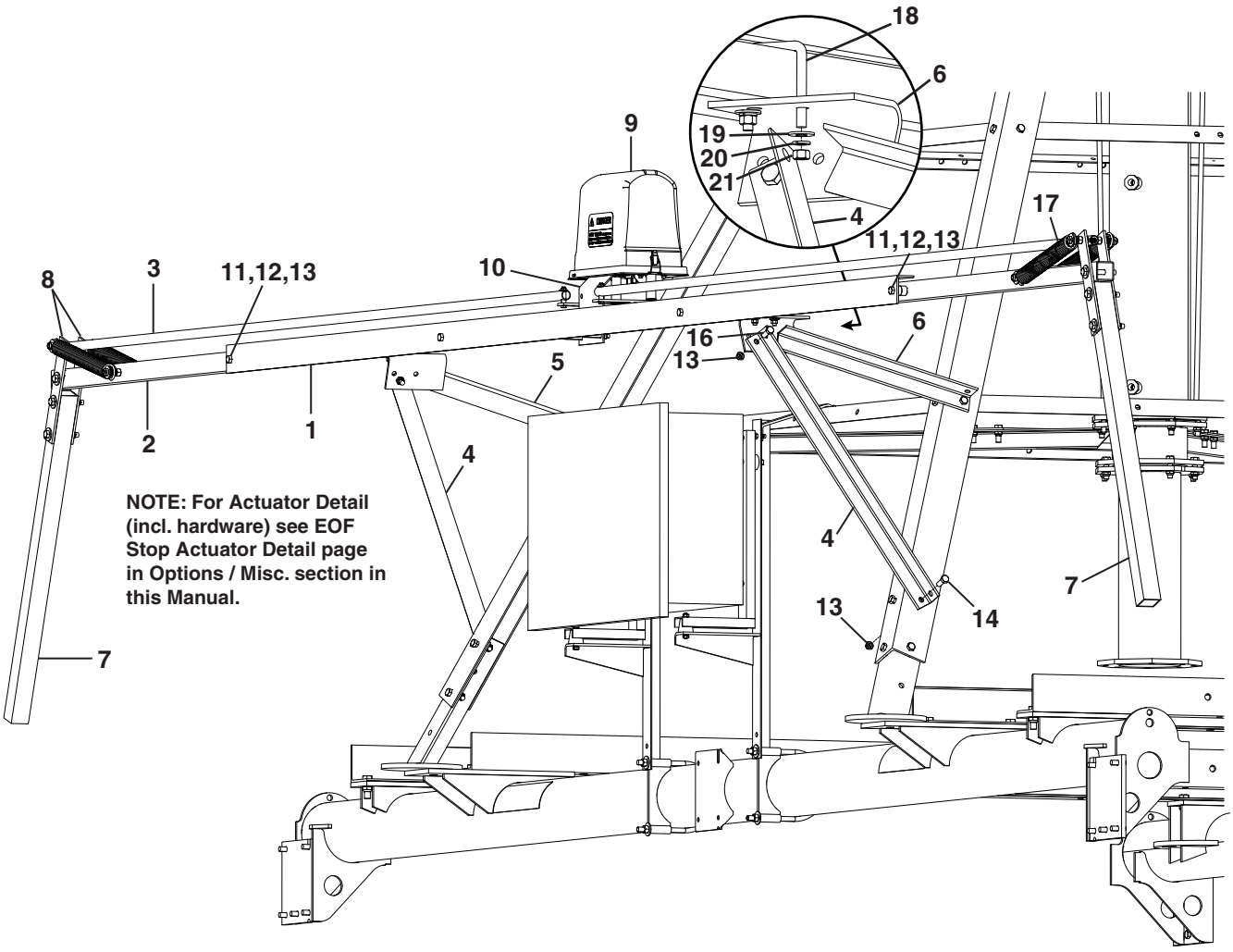
ITEM	DESCRIPTION	PART #
1	6" Butterfly Valve w/Actuator	0992620
2	1/4" NPT x 1/4" Tube Fitting	0232366
3	Tube Tie Wraps	0314225
4	3/4" Filter Cross	9360897
	3/4" Cross	0242048
	Filter Element	0311020
	3/4" Plug	0246193
	3/4" x 1/4" Reducer	0244046
	1/4" x 1/8" Reducer	0244024
	3/4" x 2" Galvanized Nipple	0211014
5	1/4" x 30' Tube	1740101
6	Rigid Conduit Nipple	0244037
7	3/4" Flat Washer	0142027
8	1/2" Right Elbow Bushed	0241057
9	Solenoid Valve w/Coil (Normally Open)	0232452
10	1/4" Tube x 1/8" NPT Elbow	0232361
11	1/8" NPL x 1/4" x 1/4" Tee	0232367
12	Solenoid Valve w/Coil (Normally Closed)	0232450
13	3/4" Plastic Plug	0246193

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ITEM	DESCRIPTION	PART #
1	Limit Switch Assembly	1811451
2	#10-24 x 4" Round Head Machine Screw	0164166
3	Switch Lever	0315623
4	Pivot Bushing Switch Arm	1732194
5	3/16" x 2" Cotter Pin	0151015
6	Actuator Arm Pin	1732191
7	3/4" Flat Washer	0142021
8	#10 Hex Nut	0131055
9	End of Field Shut-down Arm	1732195
10	Pivoting Arm	1732197
11	Return Spring	0181007
12	Upper Field Stop	1732192
13	5/32" Hair Pin	0181034
14	Lower Field Stop	1732193
15	6-5/8" U-Clamp	1781277
16	6-5/8" Saddle Assembly	1781282
17	1/2" x 5" Cap Screw	0161111
18	Mounting Plate	1732863
19	1/2" Lock Nut	0133005
20	Spacer Tube	9364571

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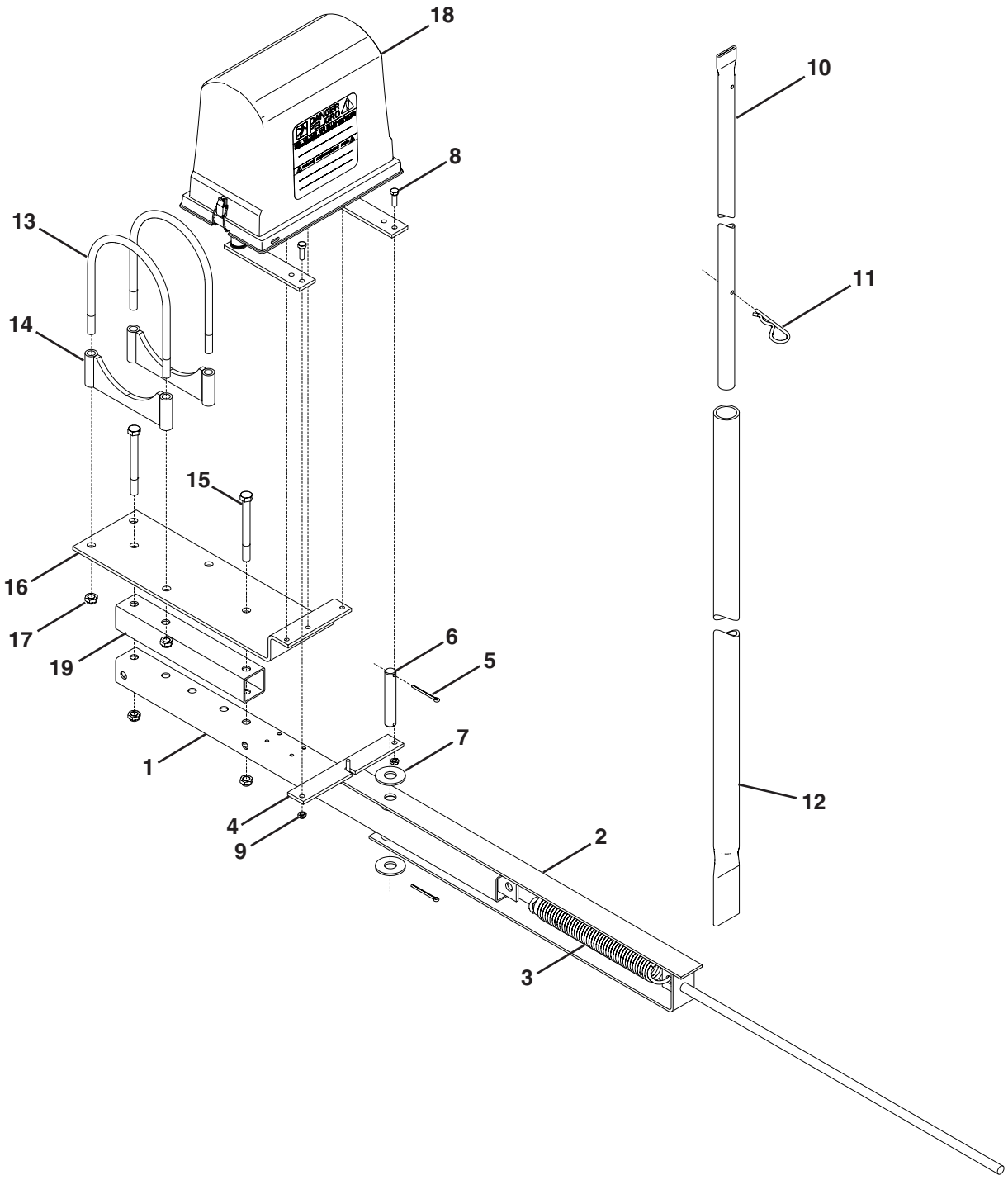


NOTE: For Actuator Detail (incl. hardware) see EOF Stop Actuator Detail page in Options / Misc. section in this Manual.

ITEM	DESCRIPTION	PART #
1	Support Angle Mounting Beam	9362640
2	Auto Univ. ARAS Mounting Beam	9362639
3	Actuator - Ultra High Profile	9360199
4	Lower Brace Angle - E.O.F.	9364326
5	End of Field Stop Assm. - Front	9364328
6	End of Field Stop Assm. - Rear	9364329
7	Arm	1731382
8	Side Plate	1731375
9	A.R. / A.S. Internal Switch Box	1814135
10	Control Box Mounting Plate	1700494
11	1/2" x 4-1/2" Cap Screw	0161110
12	9/16" x 5/8" Bolt Bushing	0192074
13	1/2" Lock Nut	0133005
14	1/2" x 2-1/2" Cap Screw	0161023
15	1/2" Washer	0142025
16	1/2" x 1" Cap Screw	0161028
17	Return Spring	0181007
18	3/8" x 2" U-Bolt	0176053
19	3/8" Lock Washer	0141007
20	3/8" Flat Washer	0142031
21	3/8" Hex Nut	0131018

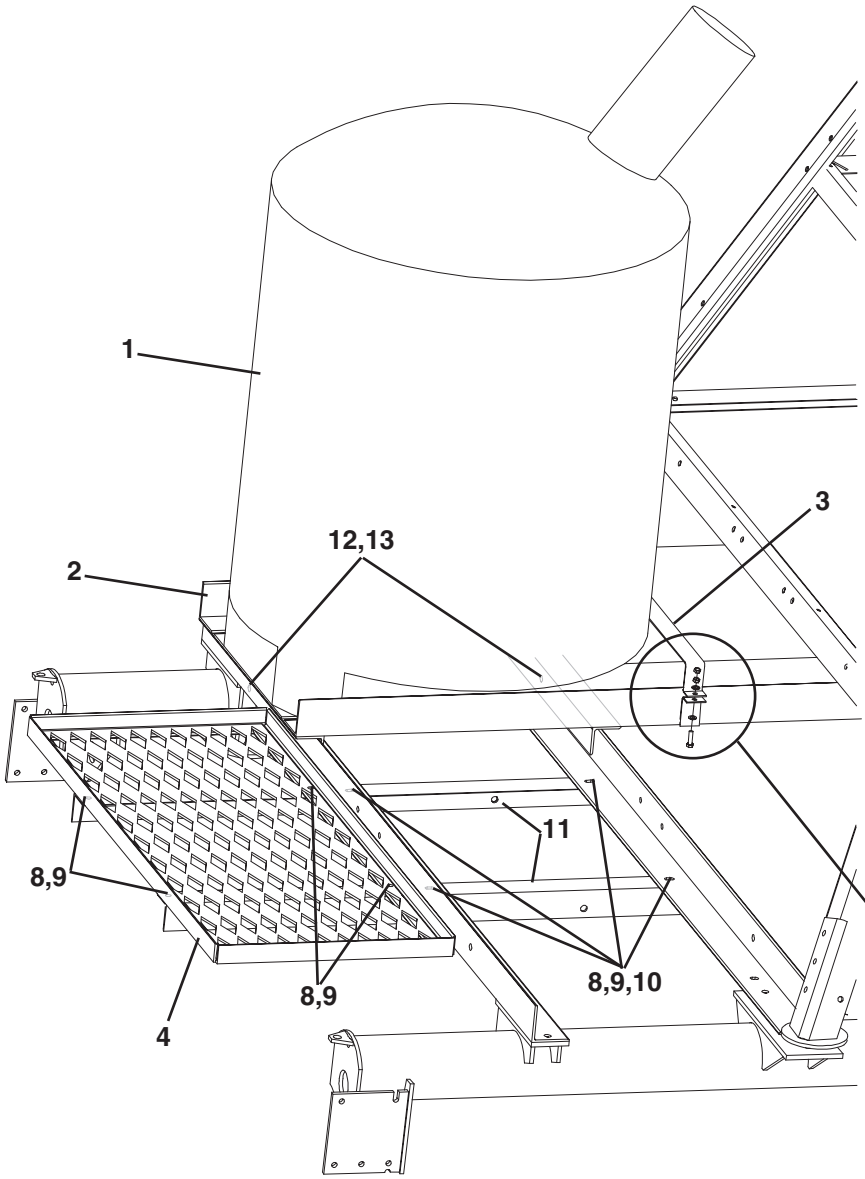
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Functional Area	Assembly / Part	Rev# 05-15
Options / Misc.	End of Field Stop/Auto Reverse (Ditch Feed)	

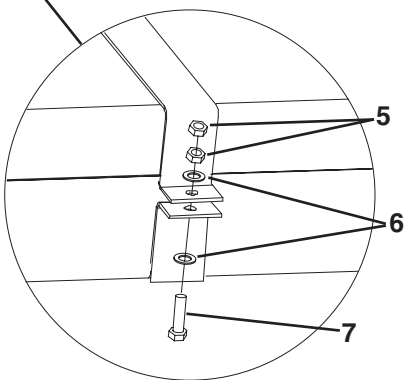


ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	End of Field Shut-down Arm	1732195	11	5/32" Hair Pin	0181034
2	Pivoting Arm	1732197	12	Lower Field Stop	1732193
3	Return Spring	0181007	13	6-5/8" U-Clamp	1781277
4	End of Field Stop Coupler	9332144	14	6-5/8" Saddle Assembly	1781282
5	3/16" x 2" Cotter Pin	0151015	15	1/2" x 5" Cap Screw	0161111
6	Actuator Arm Pin	1732191	16	Mounting Plate, Control Box	9332200
7	3/4" Flat Washer	0142021	17	1/2" Lock Nut	0133005
8	5/16" x 1" Cap Screw	0161052	18	Auto Reverse/Auto Stop Internal Switch Box	1814126
9	5/16" Lock Nut	0133007	19	Spacer Tube	9364571
10	Upper Field Stop	1732192	20	11 Cond. 10 Ga. - 18'-4" - Elec. Cable (not shown)	1811483

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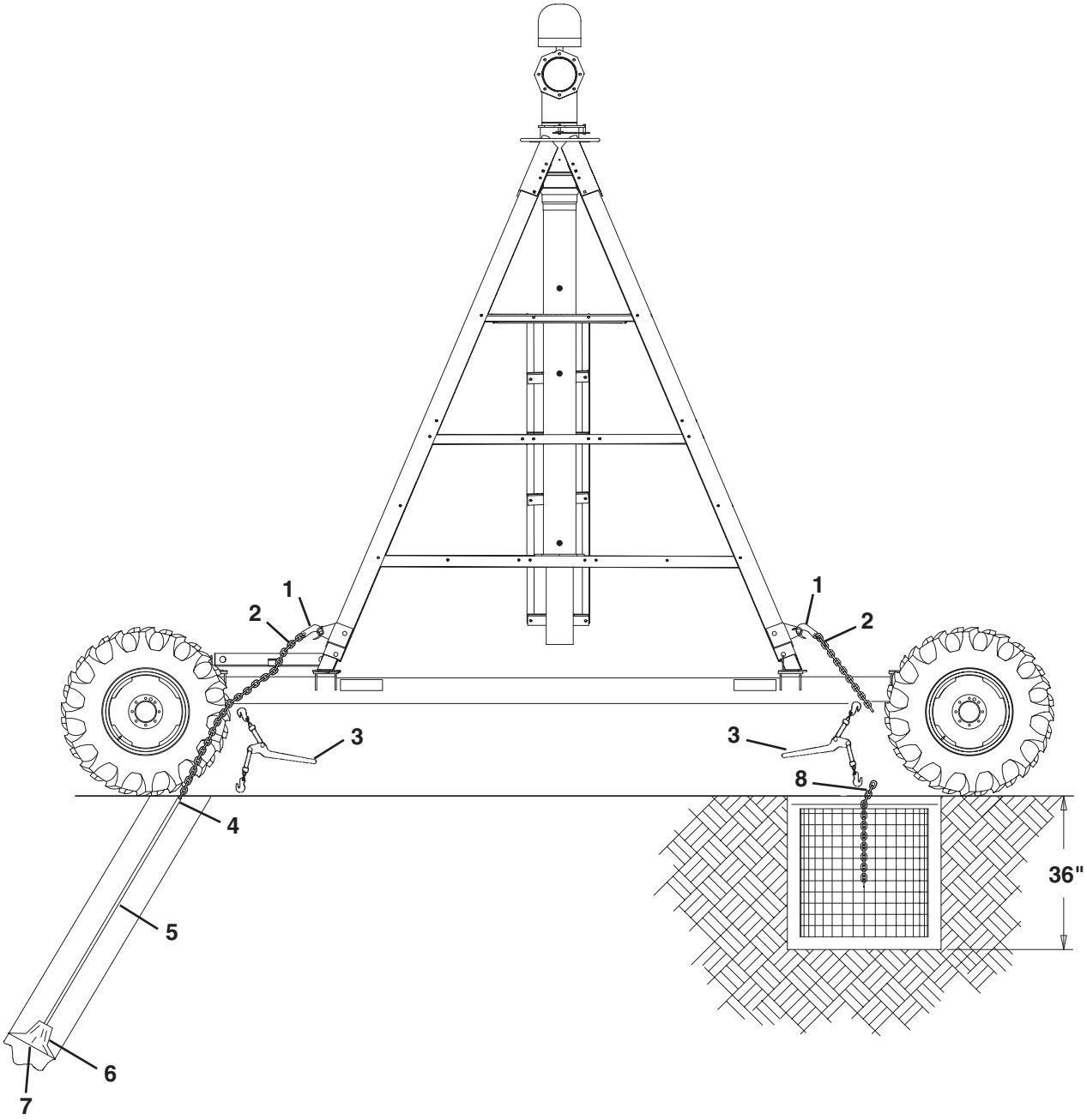


NOTE: Position Fuel Tanks, Fertilizer Tanks and Eng./Gen. Sets to optimally distribute weight over all 4 wheels



ITEM	DESCRIPTION	PART #
1	Chemigation Unit - 70 Gallon	1K02046
	Chemigation Unit - 110 Gallon	1K02047
	Chemigation Unit - 200 Gallon	1K02048
2	Chemigation Unit Support Platform	9332123
3	Chemigation Unit Tie Down Strap	9332125
4	Maintenance Platform	9330203
5	3/8" Hex Nut	0131018
6	3/8" Flat Washer	0142031
7	3/8" x 1-1/2" Cap Screw	0161042
8	1/2" Lock Nut	0133005
9	1/2" x 2" Cap Screw	0161024
10	1/2" Flat Washer	0142026
11	Maintenance Platform Attachment Angle	9332131
12	5/8" x 1-3/4" Cap Screw	0161088
13	5/8" Lock Nut	0133010

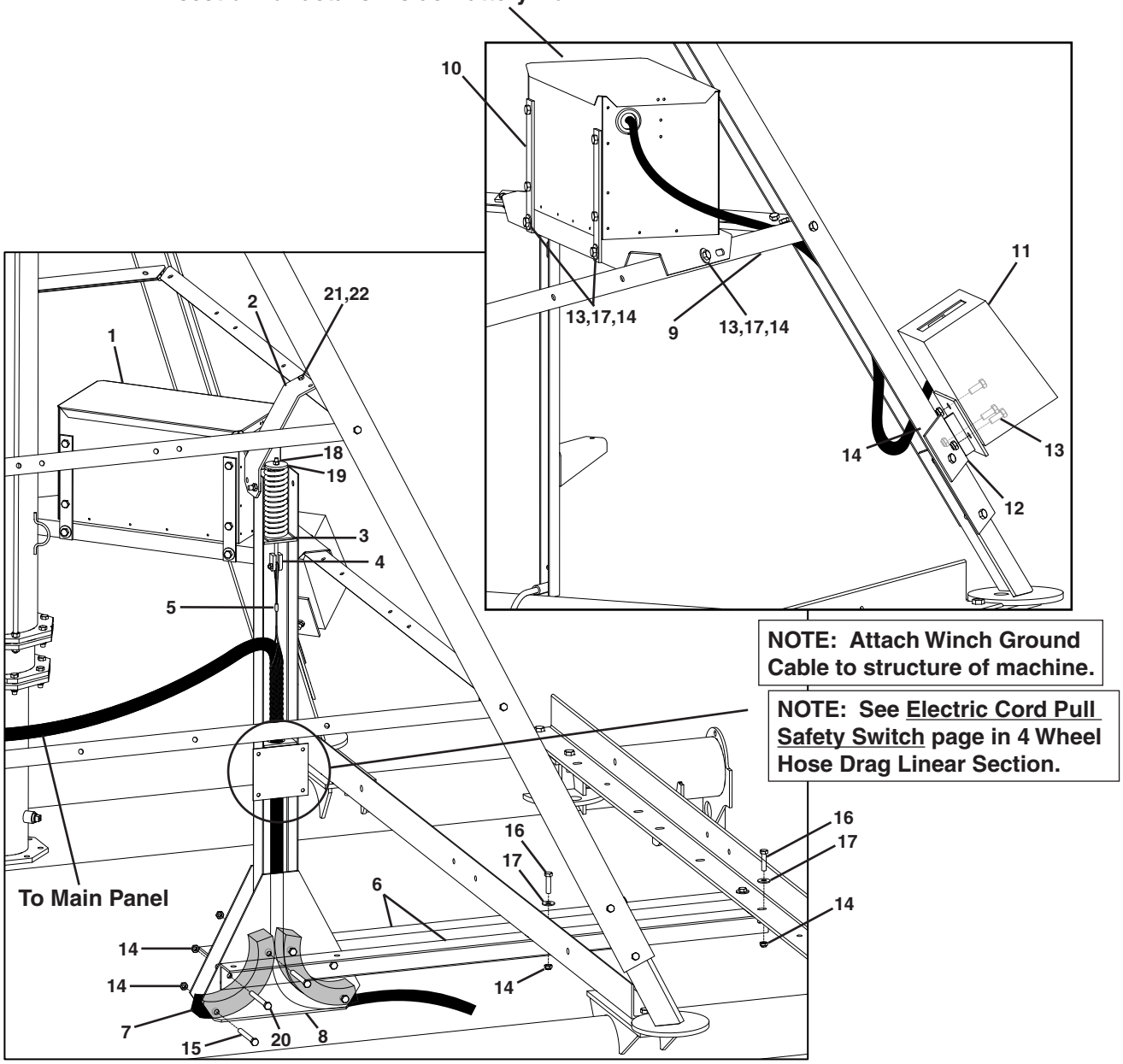
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ITEM	DESCRIPTION	PART #
1	Slip Hook	0992731
2	3/8" Binding Chain - 54" Long	0994354
3	3/8" Chain Load Binder	0323050
4	Double Clevis Link	0323047
5	Earth Anchor Rod - 72" Long	1781471
6	Expanding Earth Anchor	0994355
7	3/4" Lock Nut	0133011
8	3/8" Binding Chain - 25" Long	0323060

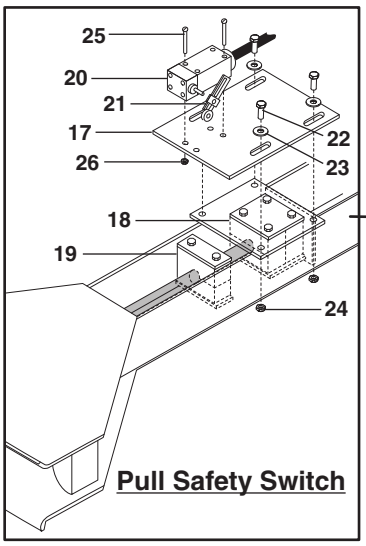
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NOTE: See Battery Box page in this section for details inside Battery Box.

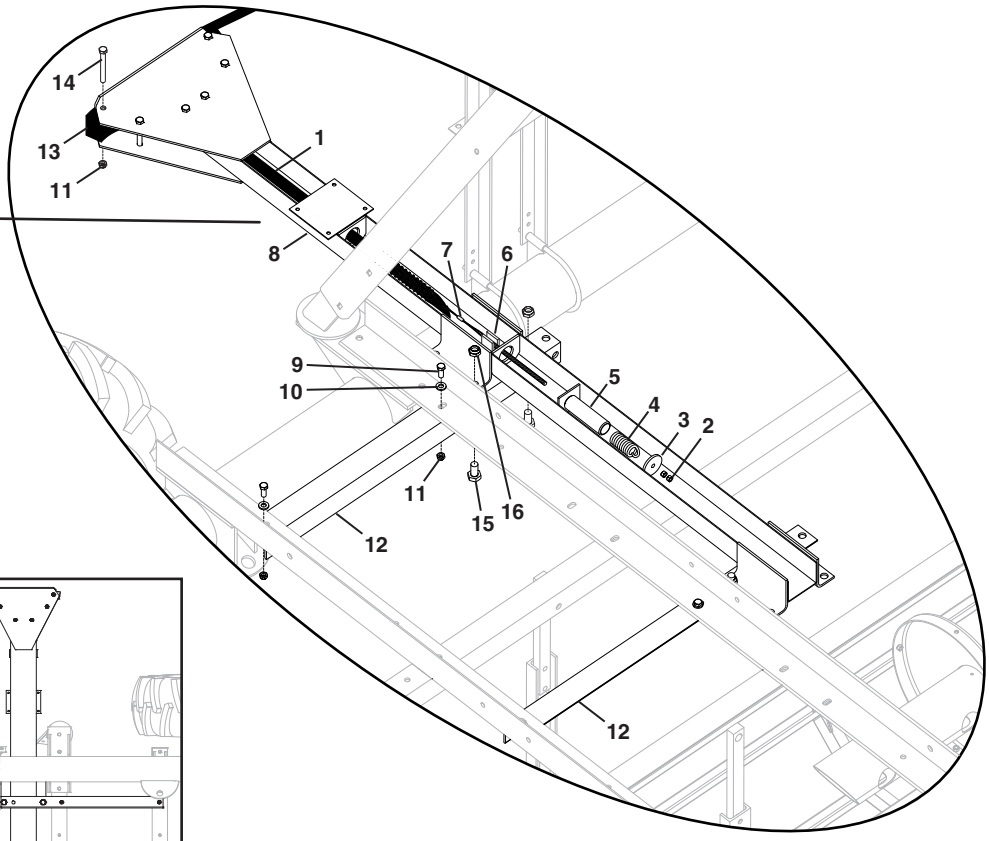


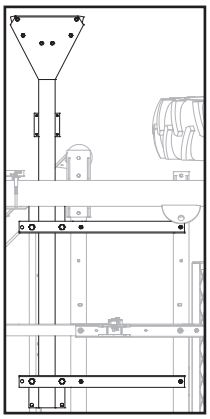
ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Battery Box Assembly	1730127	12	Winch Mounting Plate	9364308
2	Cord Drag Mount Plate	9364323	13	1/2" x 1-1/4" Cap Screw	0161027
3	Spring Guide	1732275	14	1/2" Lock Nut	0133005
4	Spring Adjuster	1732272	15	1/2" x 4-1/2" Cap Screw	0161110
5	Cable Support Grip	0315504	16	1/2" x 2" Cap Screw	0161024
6	Cord Drag Support Angle	9330245	17	1/2" Flat Washer	0142026
7	Bumper	1732258	18	3/8" Hex Nut	0131018
8	Cord DragChannel	9330212	19	Spring Keeper	1732260
9	Battery Tray	9330241	20	1/2" x 5" Cap Screw	0161111
10	Battery Mount Strap	9330236	21	3/8" x 1-1/2" Cap Screw	0161082
11	Double Pull Winch, 12V, 60Amp	0995586	22	3/8" Lock Nut	0133006

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Pull Safety Switch





4 Ga. Mounting
(view from under cart)

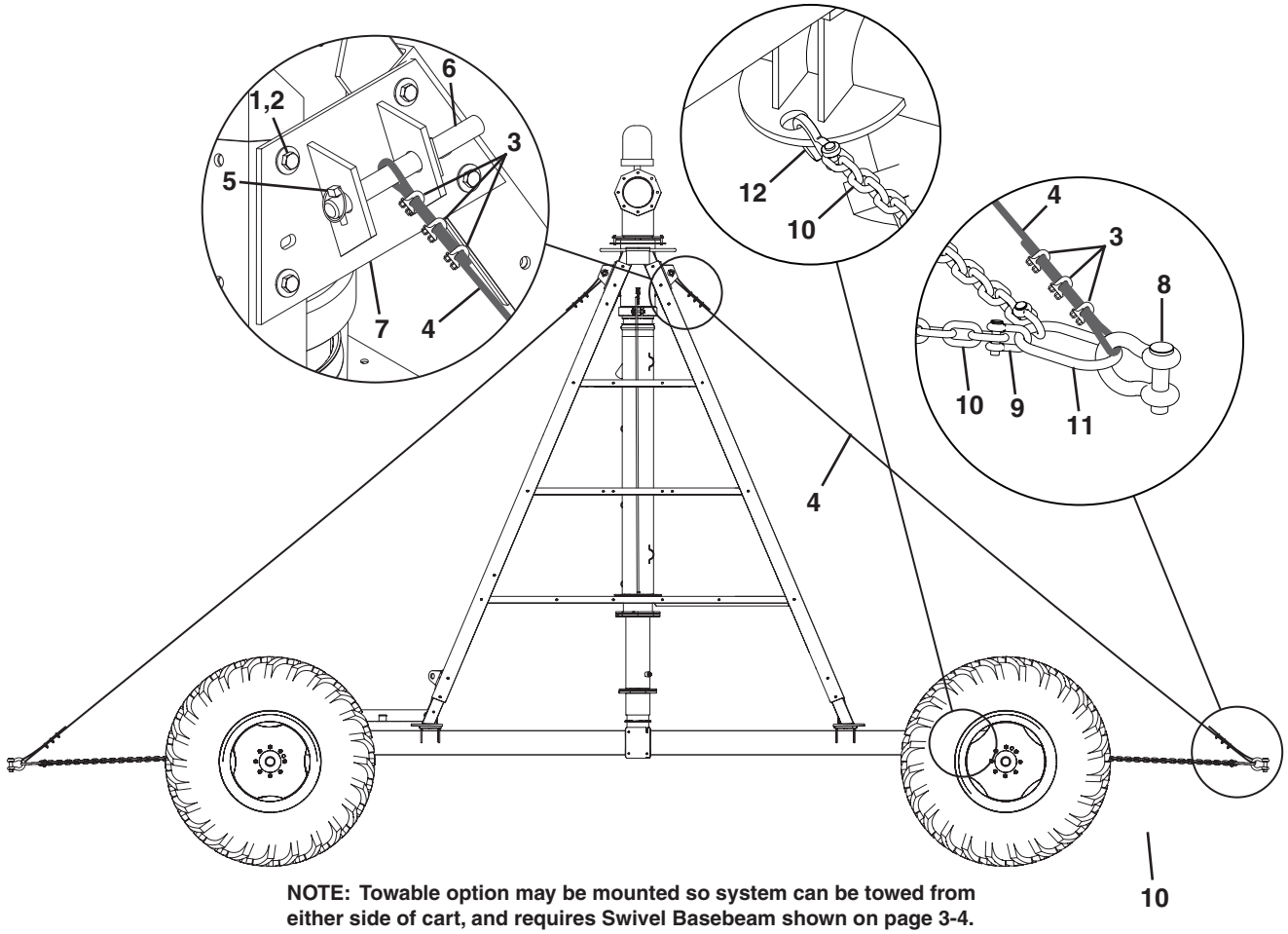
1 Ga. Mounting
(view from under cart)

ITEM	DESCRIPTION	PART #
1	Plug & Cord Assm. (4 Ga.) - 450'	9311942
	Plug & Cord Assm. (1 Ga.) - 450'	9311940
2	3/8" Hex Nut	0131018
3	Spring Keeper	1732260
4	Roll Brake Spring (4 Ga.)	1900139
	Roll Brake Spring (1 Ga.)	0997984
5	Spring Guide (4 Ga.)	1732275
	Spring Guide (1 Ga.)	9363718
6	Spring Adjuster	1732272
7	Cord Grip - Offset Eye - 15" (4 Ga.)	03E2892
	- 18" (1 Ga.)	03E2893
8	Cord Drag Channel Assm. (4 Ga.)	9362538
	Cord Drag Channel Assm. (1 Ga.)	9363719
9	1/2" x 1-1/4" Cap Screw	0161027
10	1/2" Flat Washer	0142025
11	1/2" Lock Nut	0133005
12	Cord Drag Channel Angle Mount	9363945
13	Bumper (4 Ga.)	1732258
	Bumper (1 Ga.)	9363711

ITEM	DESCRIPTION	PART #
14	1/2" x 4-1/2" Cap Screw (4 Ga.)	0161110
	1/2" x 6" Cap Screw (1 Ga.)	0161430
15	3/4" x 1-1/2" Cap Screw	0161196
16	3/4" Lock Nut	0133011
17	Switch Mount (60A Only)	1732262
	Switch Mount - Big	9363734
18	Cord Clamp Large - 60A (4 Ga.)	03E2903
	- 100A & 200A (1 Ga.)	03E2905
19	Cord Clamp Small - 60A (4 Ga.)	03E2902
	- 100A & 200A (1 Ga.)	03E2904
20	Limit Switch Assm	1811451
21	Adjustable Switch Arm	0315802
22	5/16" x 1" Cap Screw	0161052
23	5/16" Flat Washer	0142017
24	5/16" Lock Nut	0133007
25	#10 x 2-1/2" Round Head Machine Screw	0164083
26	#10 Hex Nut	0131055

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Domestic Use ONLY



NOTE: Towable option may be mounted so system can be towed from either side of cart, and requires Swivel Basebeam shown on page 3-4.

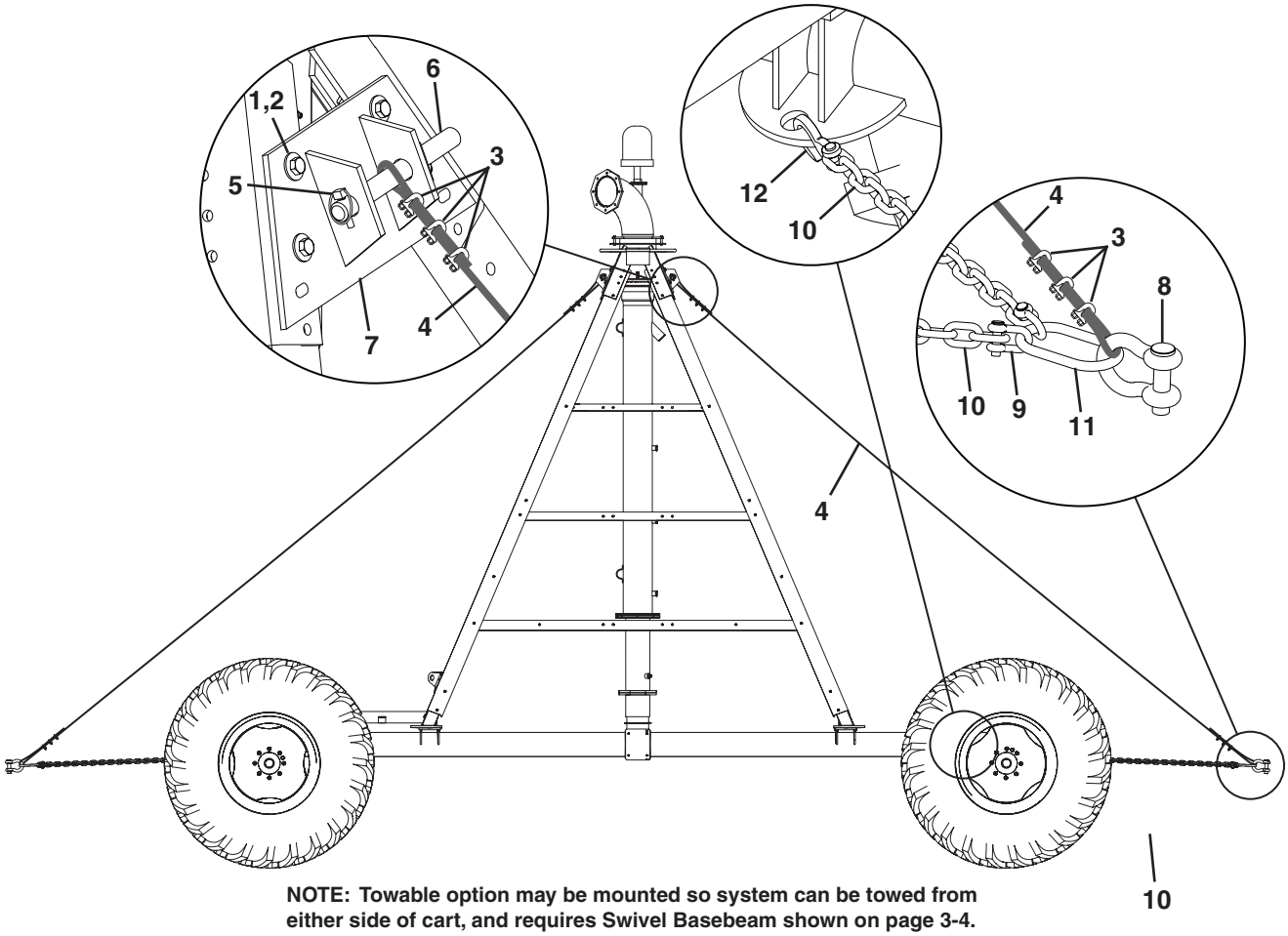
ITEM	DESCRIPTION	PART #
1	1/2" x 2" Cap Screw	0161024*
2	1/2" Flat Washer	0142026*
3	Cable Clamp	0202011
4	Cable - 21' Long	0201031
5	5/16" Quick Pin	0993635
6	Tongue Pin	1703572
7	Swivel Anchor	9364310
8	Anchor Shackle	0991484
9	Chain Shackle	0992947**
10	86.5" Binding Chain	0995662**
11	Oblong Link	0995763**
12	Slip Hook	0992731**

*** NOTE: To secure Cap Screw & Washer use existing 1/2" Lock Nuts...0133005.**

**** NOTE: Items 9-12 come with Chain Towing hardware called out on Hose Ends for Tee Inlet page in this section.**

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International Use ONLY



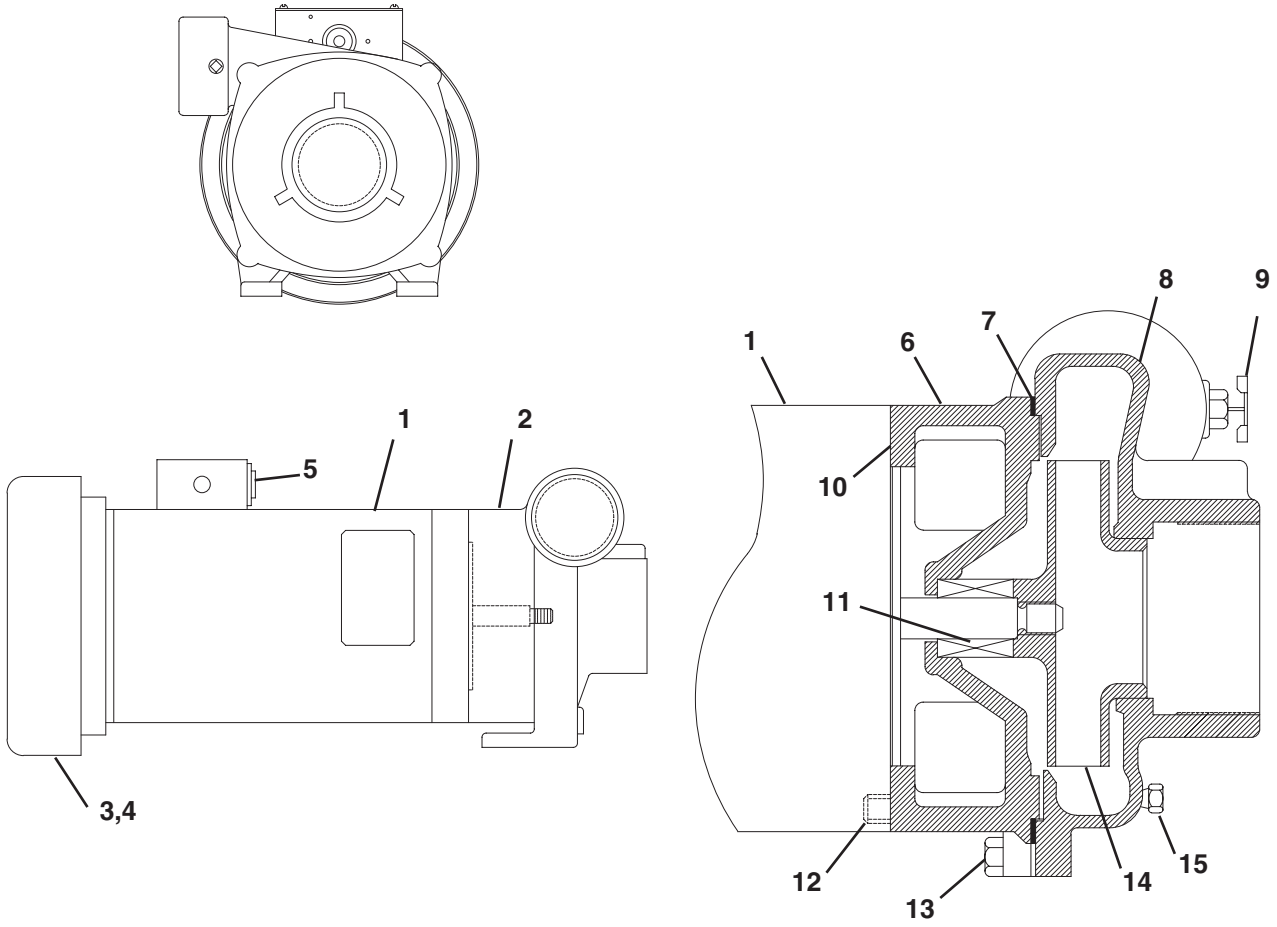
NOTE: Towable option may be mounted so system can be towed from either side of cart, and requires Swivel Basebeam shown on page 3-4.

ITEM	DESCRIPTION	PART #
1	1/2" x 2" Cap Screw	0161024*
2	1/2" Flat Washer	0142026*
3	Cable Clamp	0202011
4	Cable - 21' Long	0201031
5	5/16" Quick Pin	0993635
6	Tongue Pin	1703572
7	Swivel Anchor	9364310
8	Anchor Shackle	0991484
9	Chain Shackle	0992947**
10	86.5" Binding Chain	0995662**
11	Oblong Link	0995763**
12	Slip Hook	0992731**

*** NOTE: To secure Cap Screw & Washer use existing 1/2" Lock Nuts...0133005.**

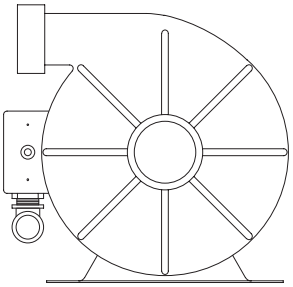
**** NOTE: Items 9-12 come with Chain Towing hardware called out on Hose Ends for Tee Inlet page in Universal Linear section.**

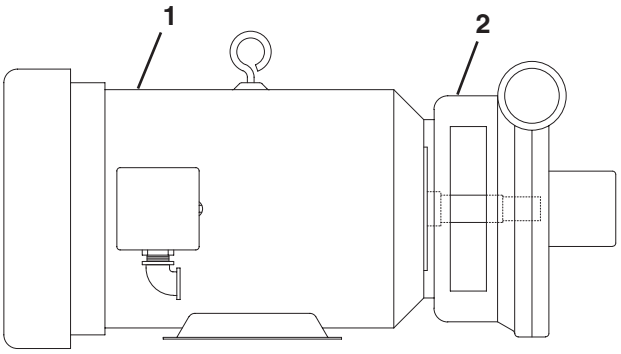
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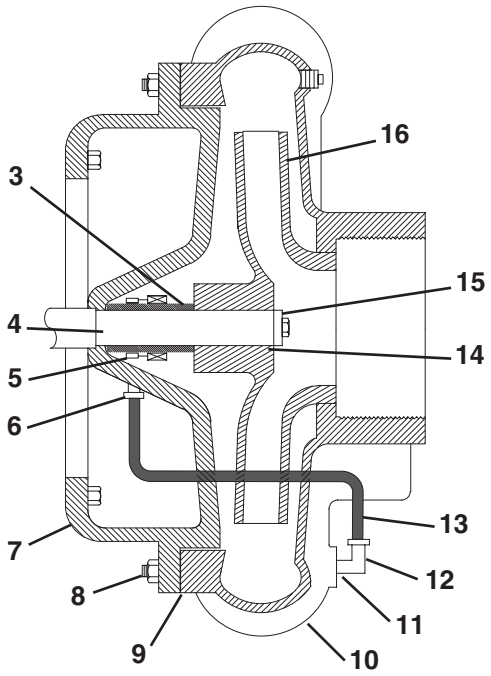


ITEM	DESCRIPTION	PART #
1	2 H.P. Motor Module	0992805
2	2 H.P. Booster Pump	0994086
3	Fan	0994391
4	Endcap Cover	0994392
5	Overload Switch Seal	0993619
6	Motor Bracket	0991653
7	Gasket	0991657
8	Volute Case w/ Stainless Steel Wear Ring	0992757
9	1/4" Drain Cock	0992756
10	Mylar Gasket	0992950
11	Mechanical 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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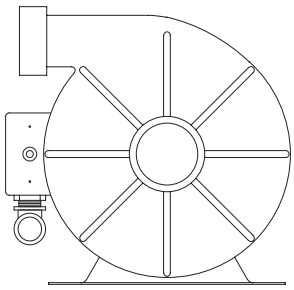


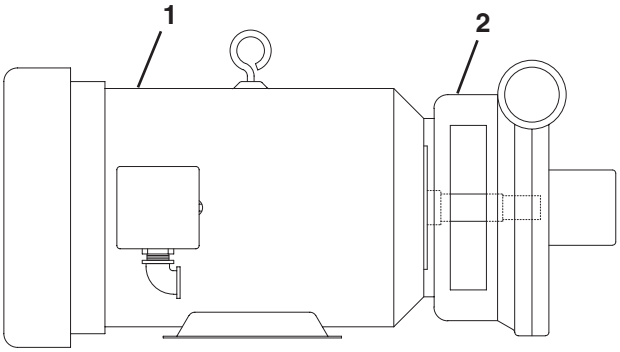


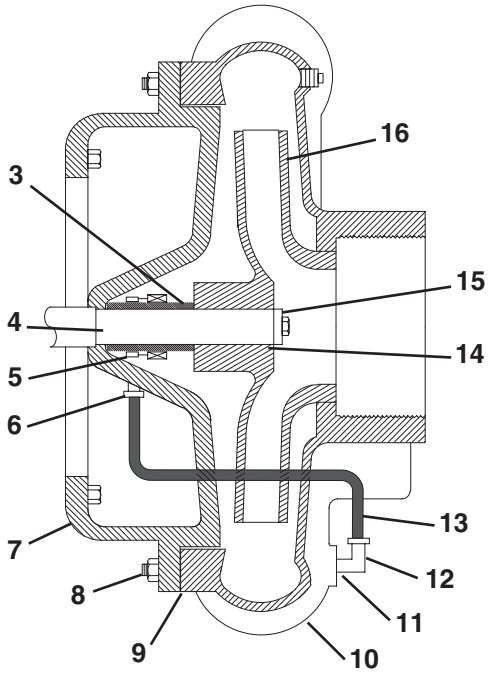


ITEM	DESCRIPTION	PART #
1	5 H.P. Motor Module	0992899
	External Fan (not shown)	0993281
2	5 H.P. Booster Pump	0999517
3	Retaining Ring	0992541
4	Shaft Sleeve	0992538
5	Mechanical Shaft Seal	0992540
6	Straight Connector Fitting	0232362
7	Motor Bracket	0992539
8	1/2" x 1-3/4" Stud	0992537
9	Gasket Case	0992536
10	Volute Case	0992535
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	0992544
15	Impeller Washer	0992543
16	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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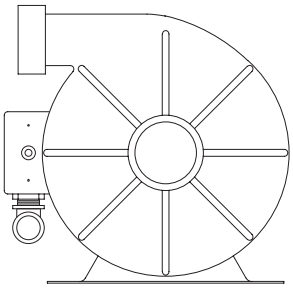


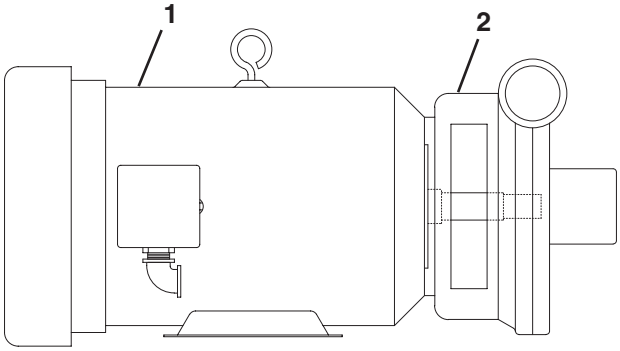


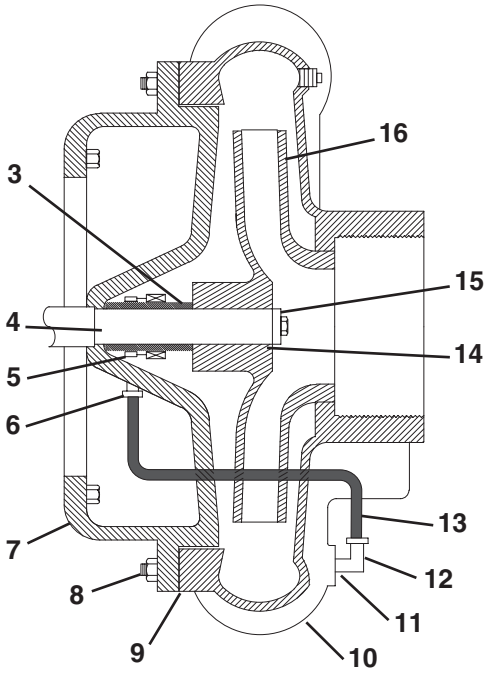


ITEM	DESCRIPTION	PART #
1	5 H.P. Motor Module	0992899
	External Fan (not shown)	0993281
2	5 H.P. Booster Pump	0993667
3	Retaining Ring	0992541
4	Shaft Sleeve	0992538
5	Mechanical Shaft Seal	0992540
6	Straight Connector Fitting	0232362
7	Motor Bracket	N/A
8	1/2" x 1-3/4" Stud	0992537
9	Gasket Case	0992536
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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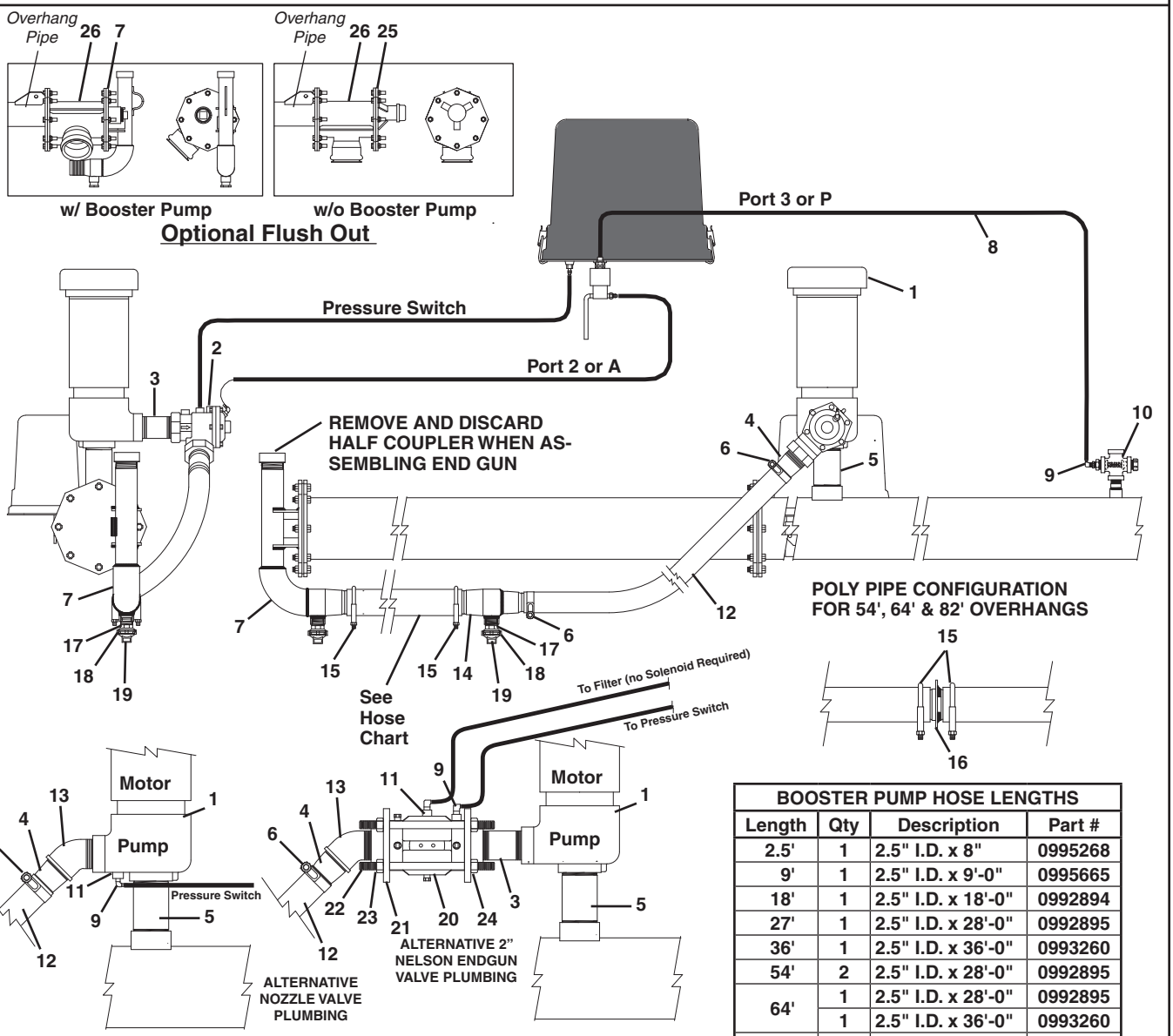






ITEM	DESCRIPTION	PART #
1	7.5 H.P. Motor Module	0992885
2	7.5 H.P. Booster Pump	0993668
3	Retaining Ring	0992541
4	Shaft Sleeve	0992538
5	Mechanical Shaft Seal	0992540
6	Straight Connector Fitting	0232362
7	Motor Bracket	0992539
8	1/2" x 1-3/4" Stud	0992537
9	Gasket Case	0992536
10	Volute Case	0992535
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	0992544
15	Impeller Washer	0992543
16	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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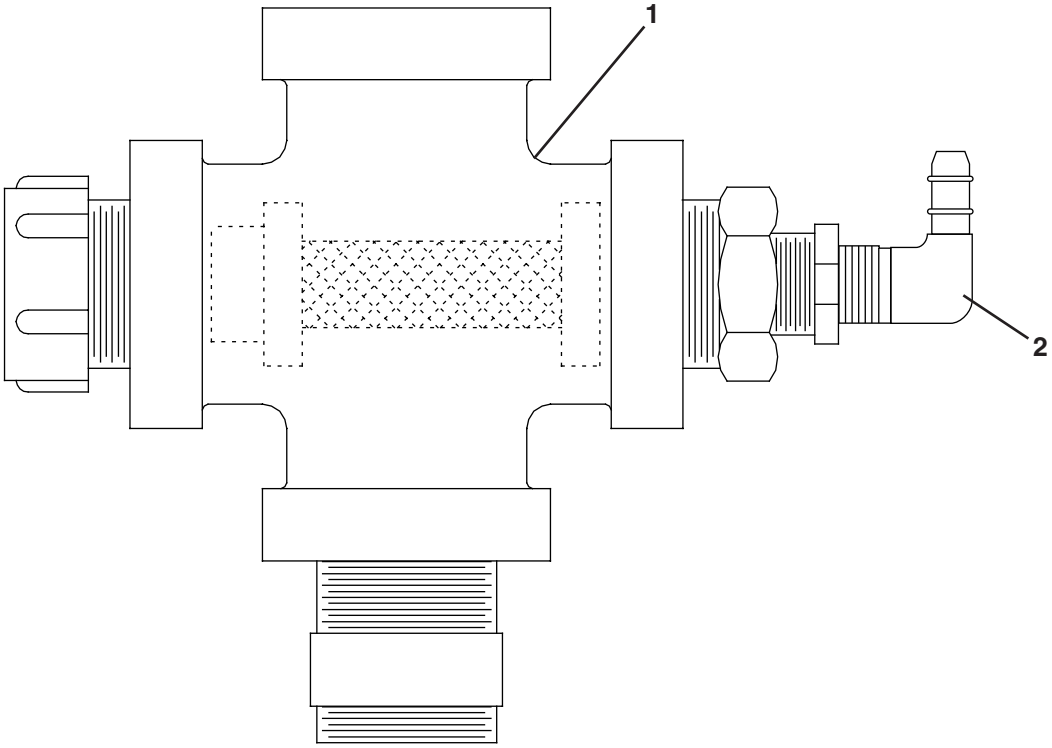
BOOSTER PUMP HOSE LENGTHS			
Length	Qty	Description	Part #
2.5'	1	2.5" I.D. x 8"	0995268
9'	1	2.5" I.D. x 9'-0"	0995665
18'	1	2.5" I.D. x 18'-0"	0992894
27'	1	2.5" I.D. x 28'-0"	0992895
36'	1	2.5" I.D. x 36'-0"	0993260
54'	2	2.5" I.D. x 28'-0"	0992895
64'	1	2.5" I.D. x 28'-0"	0992895
	1	2.5" I.D. x 36'-0"	0993260
74'	2	2.5" I.D. x 36'-0"	0993260
82'	2	2.5" I.D. x 43'-0"	0992752
25m	3	2.5" I.D. x 28'-0"	0992895

NOTE: 25m International Overhang (8120 & 8000E) ONLY.

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

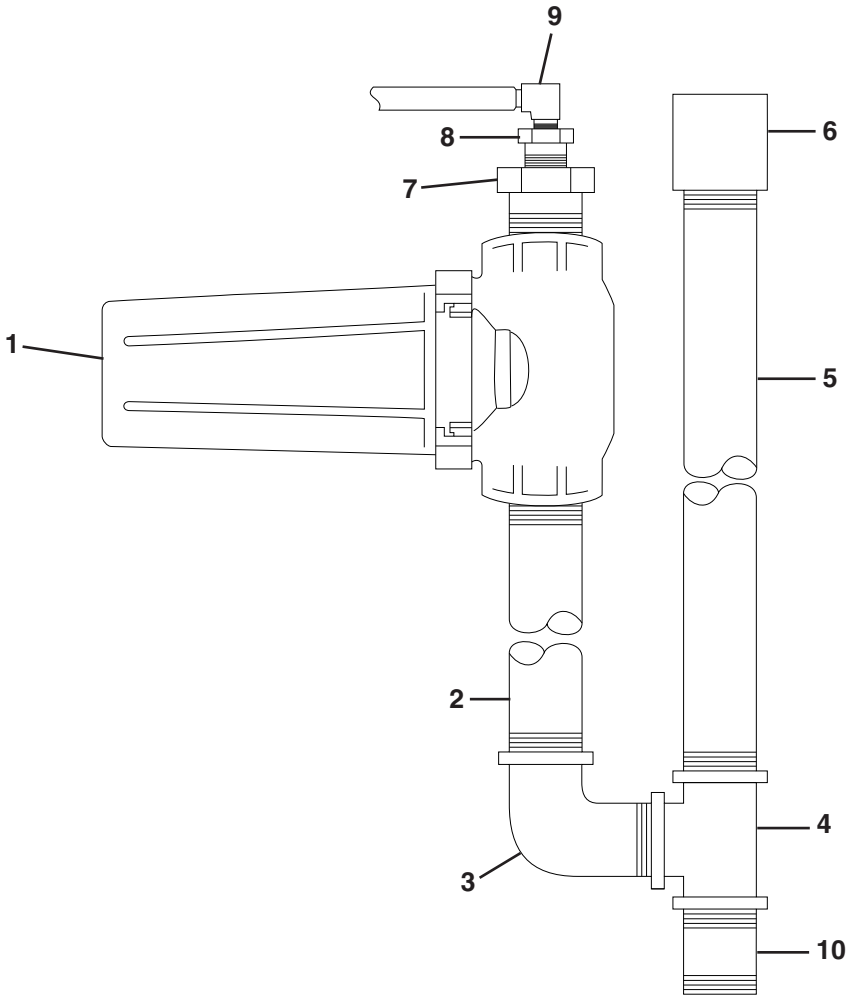
ITEM	DESCRIPTION	PART #
13	2" x 45° Street Elbow	0241053
14	2" x 2-1/2" Hose Insert Splice	9360137
15	2-3/4" Muffler Clamp	0271059
16	2-1/2" Hose Splice	1702676
17	Upper Drain Body	0232023
18	Drain Seal	0232568
19	Lower Drain Body	0232004
20	2" Nelson Endgun Valve	0232504
21	2" FNPT x ANSI Flange Adapter	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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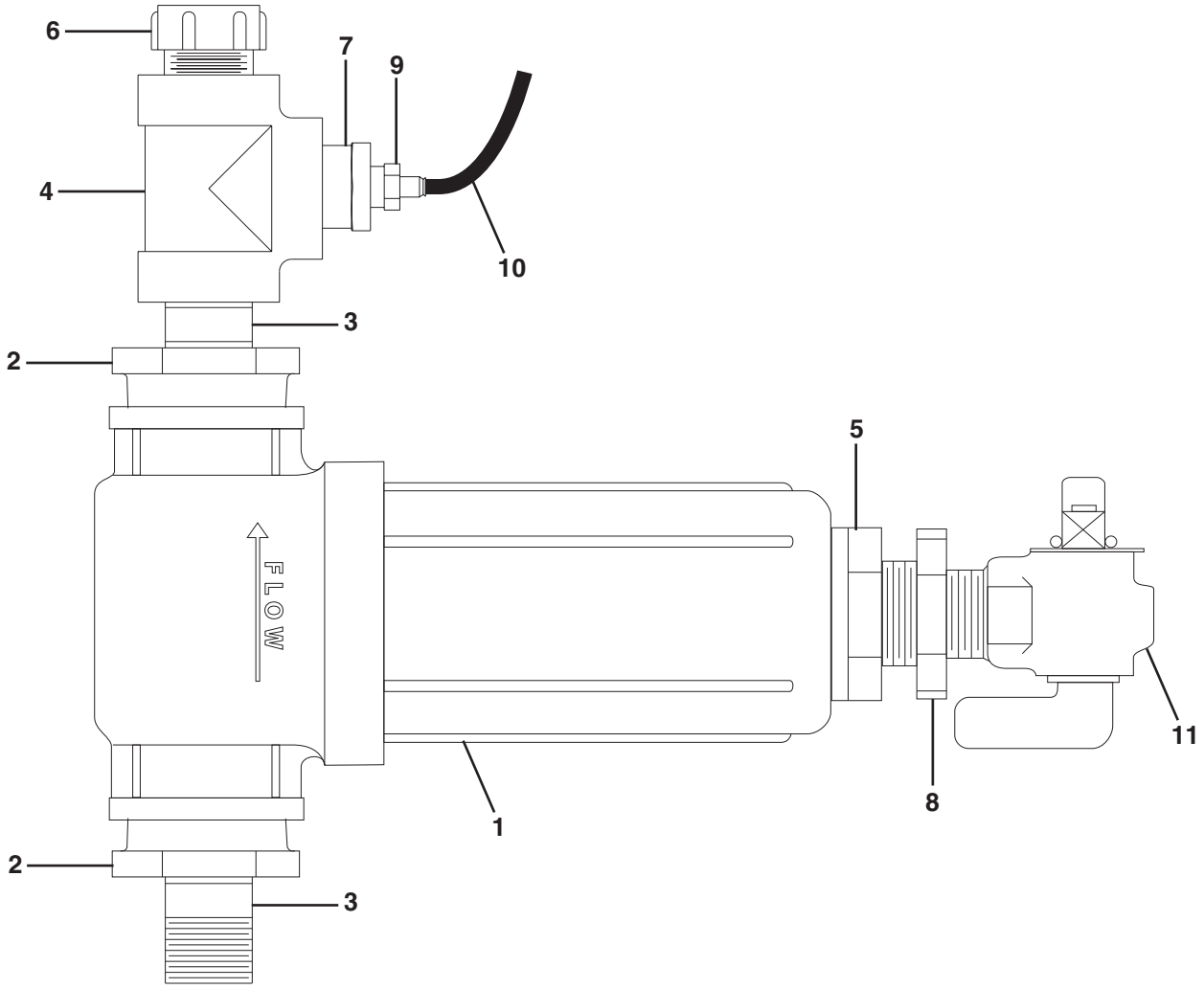
ITEM	DESCRIPTION	PART #
1	3/4" Filter Complete	9360897
	3/4" Cross	0242048
	Filter Element	0311020
	3/4" Plug	0246193
	3/4" x 1/4" Reducer	0244046
	1/4" x 1/8" Reducer	0244024
	3/4" x 2" Galvanized Nipple	0211014
2	Right Angle Tube Fitting	0232361

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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

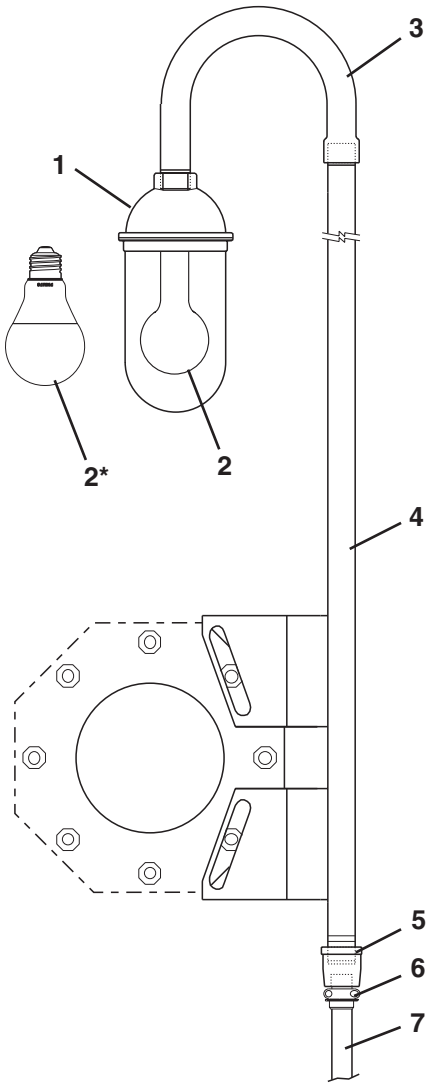
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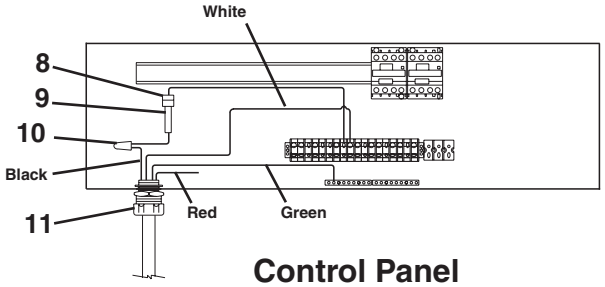


ITEM	DESCRIPTION	PART #
1	1-1/2" Filter Complete	0311013
	Screen	0311014
	Canister	0311015
	"O" Ring	0256030
2	1-1/2" x 3/4" Reducer Bushing	0244036
3	3/4" x 2" Nipple	0211014
4	3/4" x 3/4" x 3/4" Tee	0242002
5	Bulkhead Fitting	1750640
6	3/4" Plug (Plastic)	0246193
7	3/4" x 1/4" Pipe Bushing (Galvanized)	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

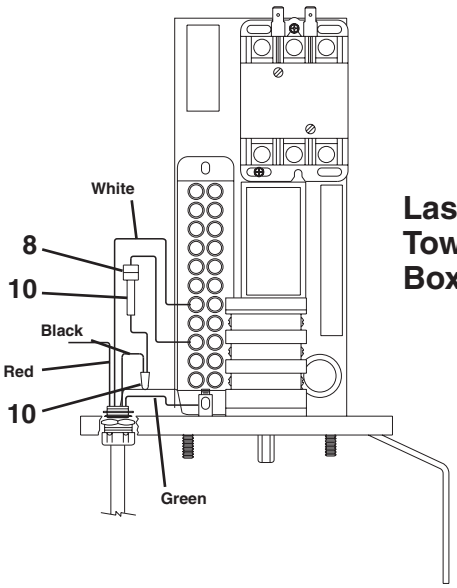
COMPLETE Filter Package for Linear Hose Drag Cart... KA09597

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Control Panel

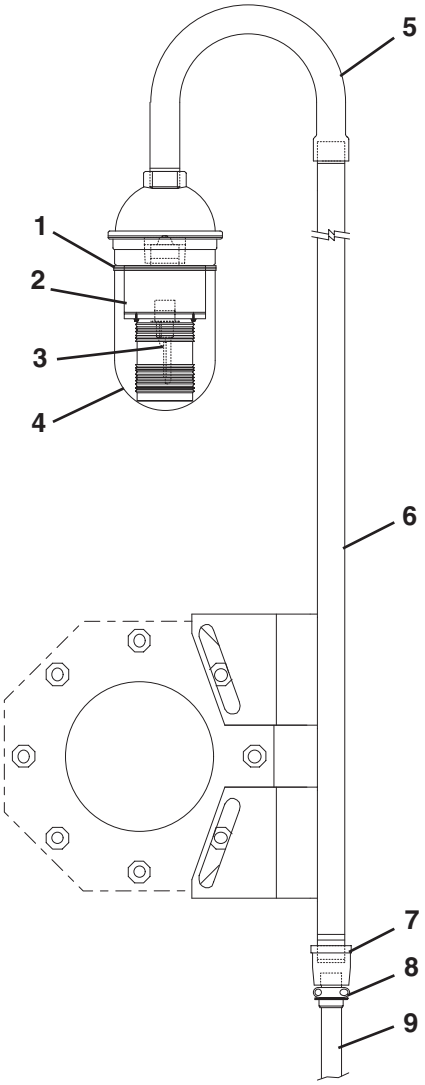


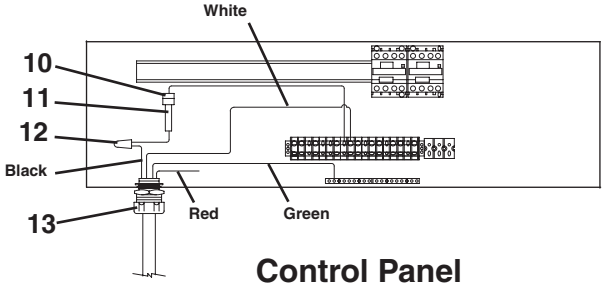
Last Tower Box

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

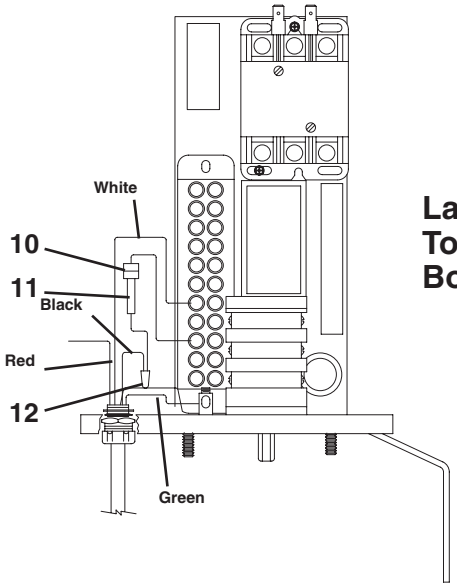
*** NOTE: LED Bulb can be used as an alternate.**

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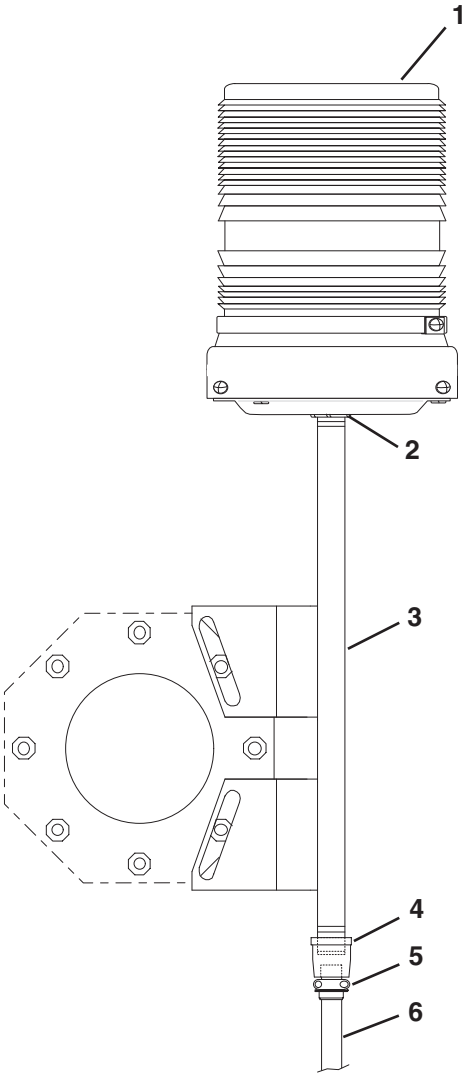
Control Panel

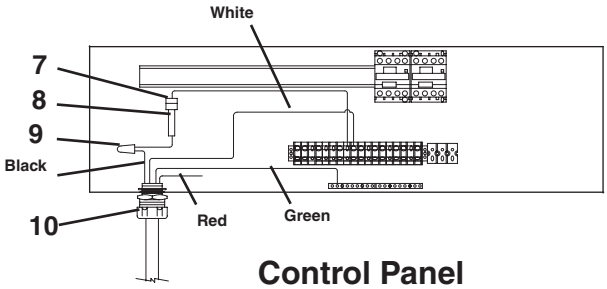


Last Tower Box

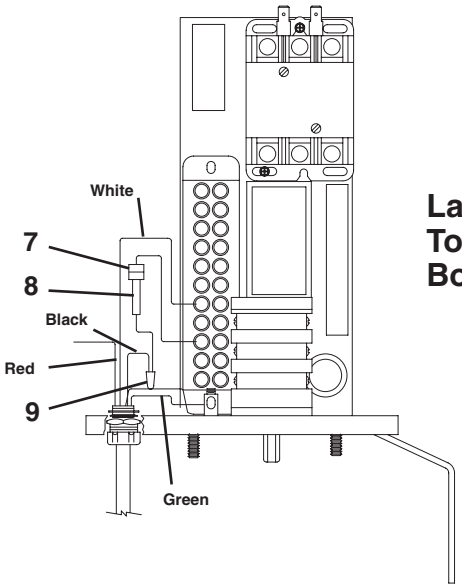
ITEM	DESCRIPTION	PART #
1	Globe Gasket	0995205
2	Amber Strobe Bulb	03E1660
	Blue Strobe Bulb	03E1661
	Red Strobe Bulb	03E1885
	Clear Strobe Bulb	03E2149
3	Replacement Lamp	03E1803
4	Globe & Pendant Assembly	0315737
5	3/4" NPT U-Pipe Drop, 6" Long	0246117
6	Universal Mounting Bracket	1781544
7	3/4" x 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



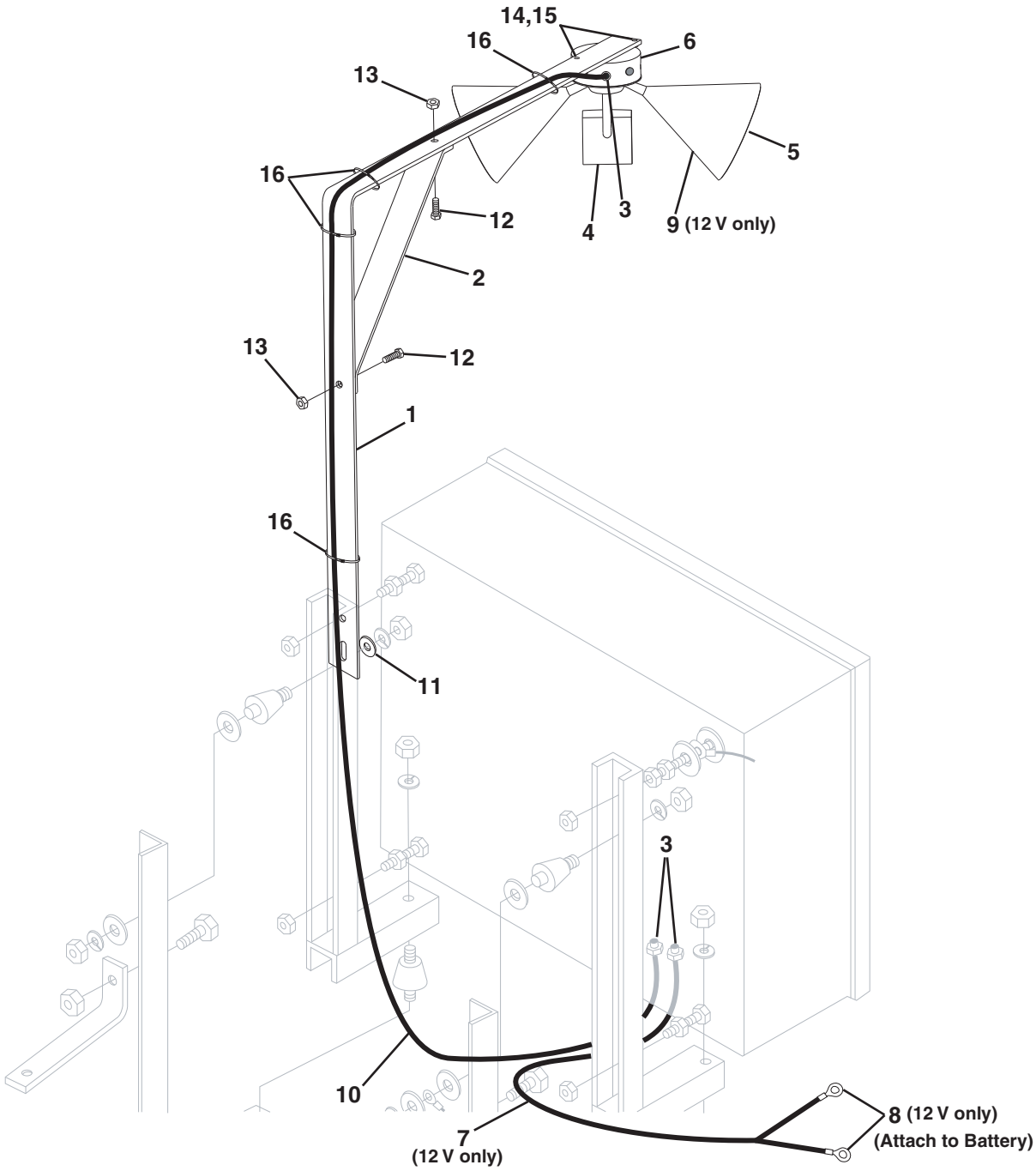
Last Tower Box

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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Functional Area	Assembly / Part	Rev# 01-17
Options / Misc.	Maintenance Light - Control Panel Mounting w/Vibration Mounts	

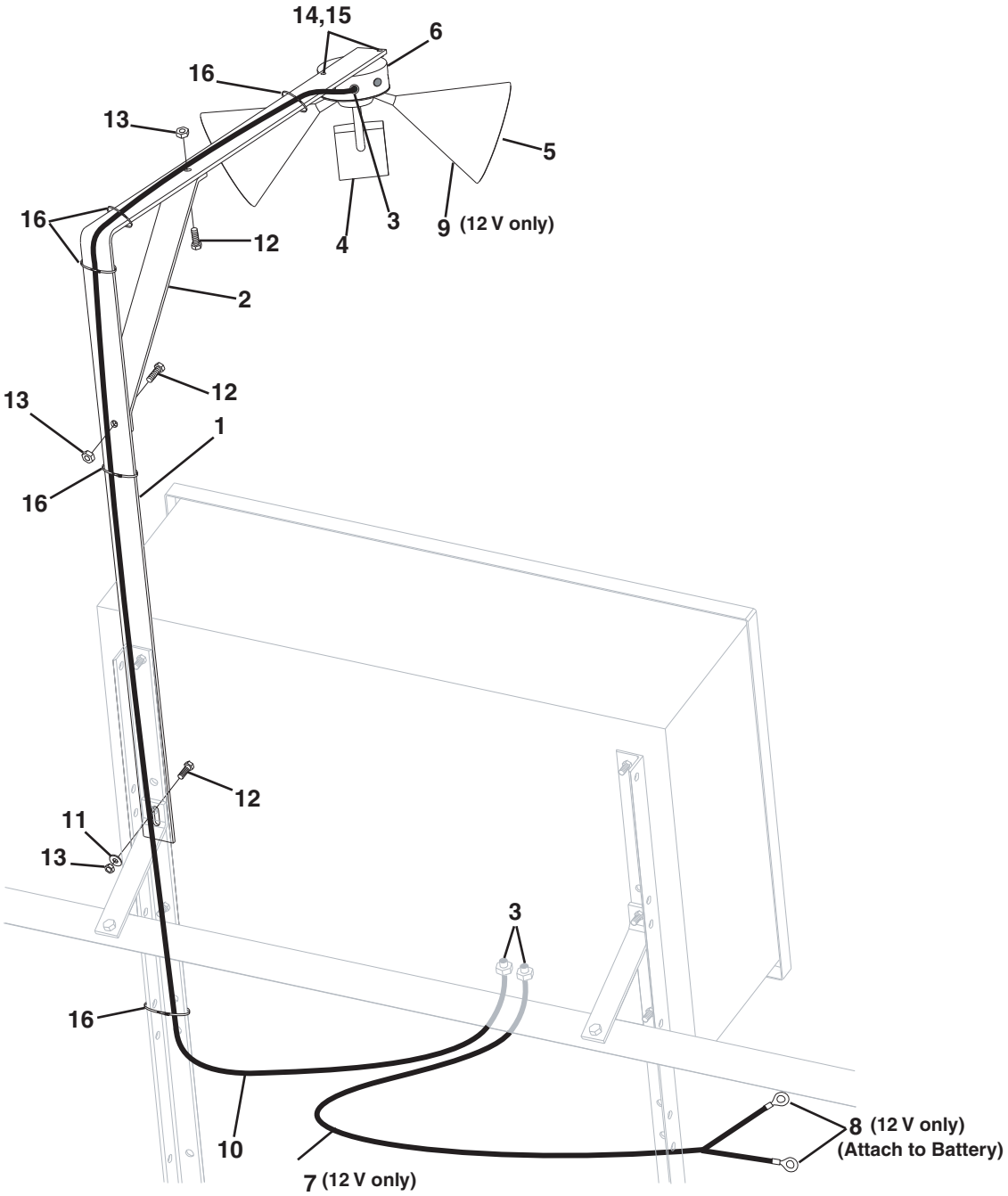


ITEM	DESCRIPTION	PART #
1	Light Mount Arm	9360630
2	Light Mount Brace	9360631
3	Strain Relief , 1/2" Hub	0314119
4	12 V Motion Sensor	03E1947*
	120 V Motion Sensing Kit	03E1945*
5	25 Watt Incandescent Bulb (12V)	03E1948*
	100 Watt Incandescent Bulb (120V)	03E1946
6	4" Round Outlet Box (5 Hole) w/Cover	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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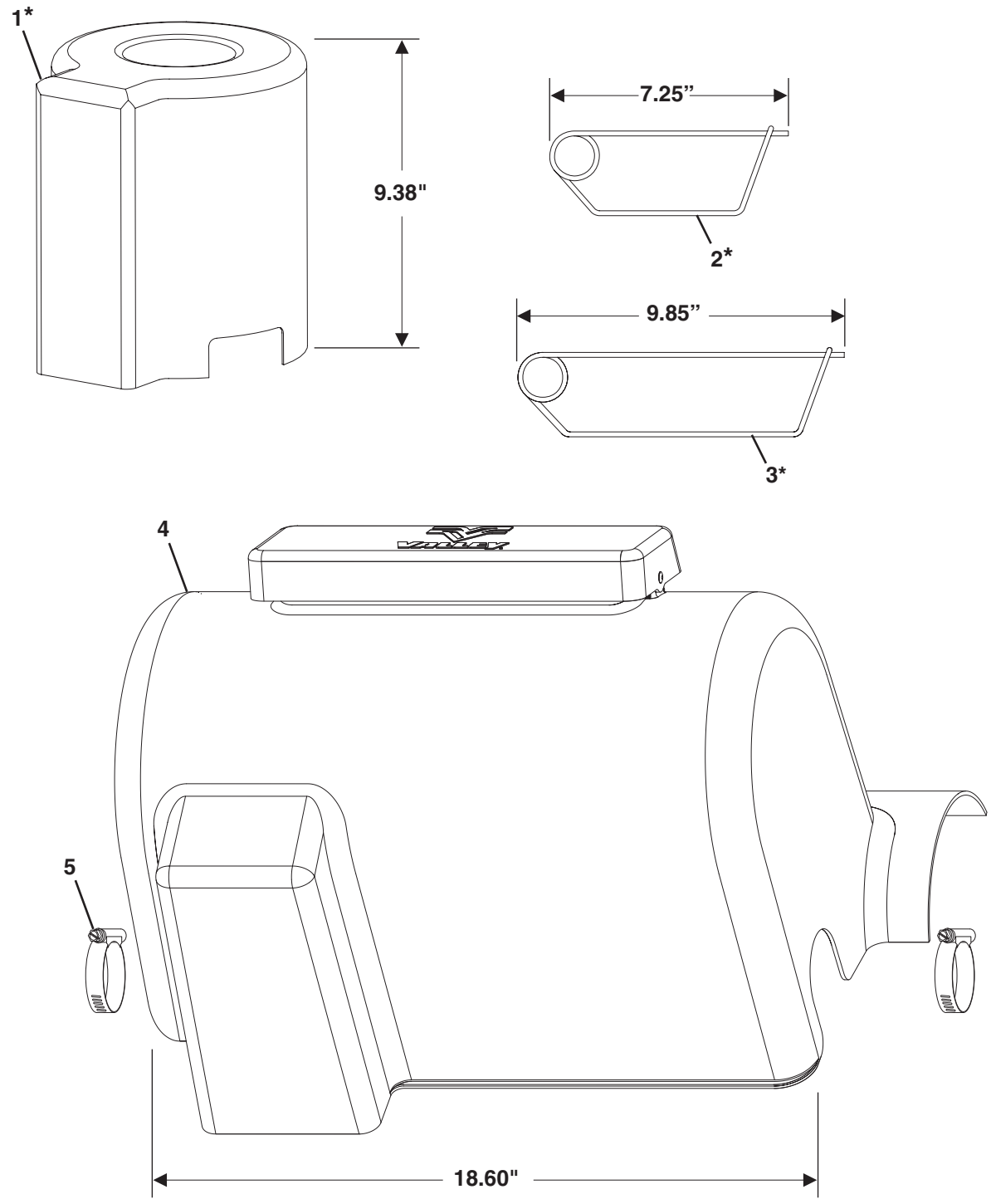


ITEM	DESCRIPTION	PART #
1	Light Mount Arm	9360630
2	Light Mount Brace	9360631
3	Strain Relief , 1/2" Hub	0314119
4	12 V Motion Sensor	03E1947*
	120 V Motion Sensing Kit	03E1945*
5	25 Watt Incandescent Bulb (12V)	03E1948*
	100 Watt Incandescent Bulb (120V)	03E1946
6	4" Round Outlet Box (5 Hole) w/Cover	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	Helical Center Drive Cover	9360360*
2	Safety Pin	0995301*
3	Safety Pin	0996276*
4	Helical Motor Cover - 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

2



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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3

DANGER

HIGH VOLTAGE

DO NOT OPEN UNLESS PIVOT DISCONNECT SWITCH IS IN THE "OFF" POSITION

1

DANGER

HIGH VOLTAGE

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.



2

DANGER

480 VOLTS

DANGER

480 VOLTS DO NOT OPEN UNTIL SERVICE DISCONNECT IS IN "OFF" POSITION AND LOCKED

5

DANGER

480 VOLTS DO NOT OPEN UNTIL MACHINE DISCONNECT IS IN "OFF" POSITION AND LOCKED

6

DANGER

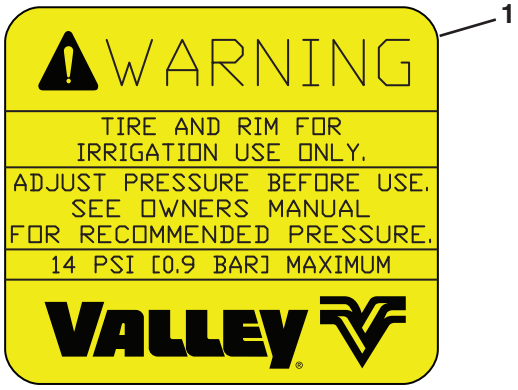
REPLACE LINE SHIELDS AFTER WIRING

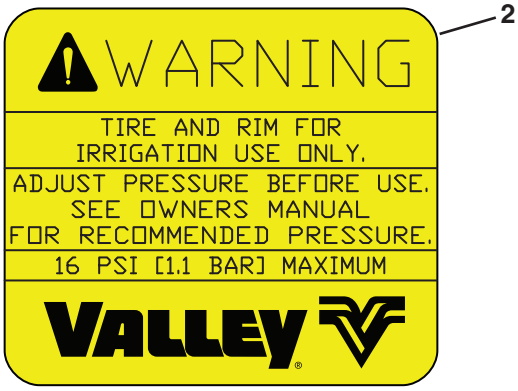
IMPROPER INSTALLATION WIRING OF THIS IRRIGATION MACHINE MAY CAUSE INJURY TO PERSONNEL OR EQUIPMENT FAILURE. THIS IRRIGATION MACHINE MUST BE CONNECTED TO A FOUR WIRE GROUNDED ELECTRICAL SERVICE. THIS IRRIGATION MACHINE MUST BE GROUNDED AS REQUIRED BY THE "NATIONAL ELECTRICAL CODE" AND APPLICABLE LOCAL CODES. THE VALLEY OWNERS MANUAL CONTAINS THE STANDARD FOR ELECTRICAL SERVICE AND EQUIPMENT FOR IRRIGATION.

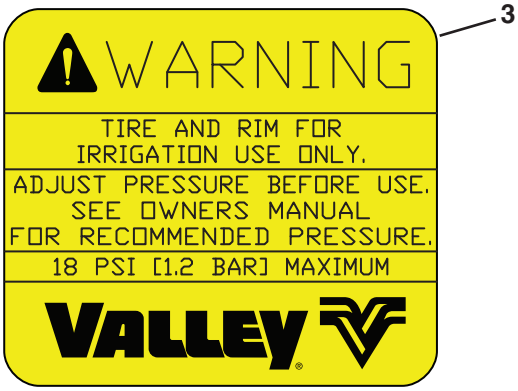
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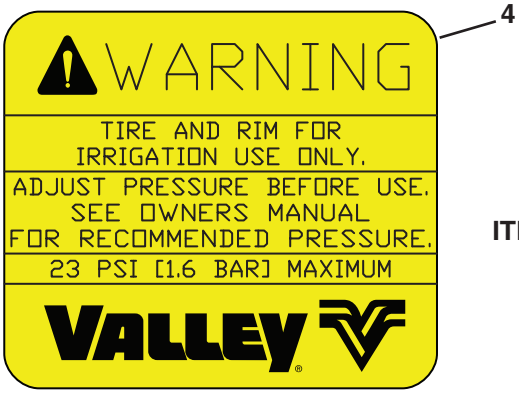
ITEM	DESCRIPTION	PART #
1	Danger: High Voltage - OBSOLETED Feb 2017	0992989
2	Danger: 480 Volts	0992749
3	Danger: High Voltage	0991148
4	Danger: Drive Shaft	0994146
5	Danger: 480 Volts Service - OBSOLETED Nov 2015	0991651
6	Danger: 480 Volts Machine	0991261
7	Danger: Safety Line Shields	0315928

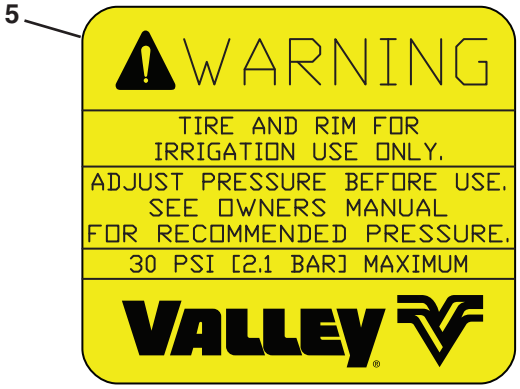
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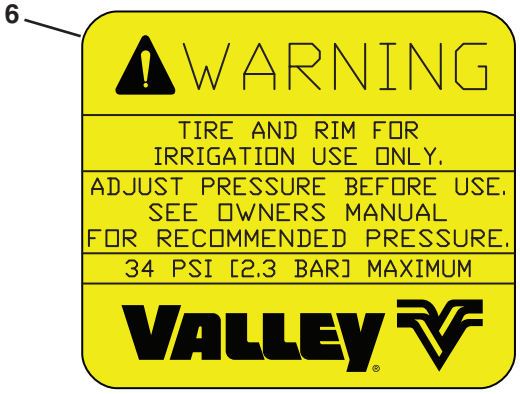








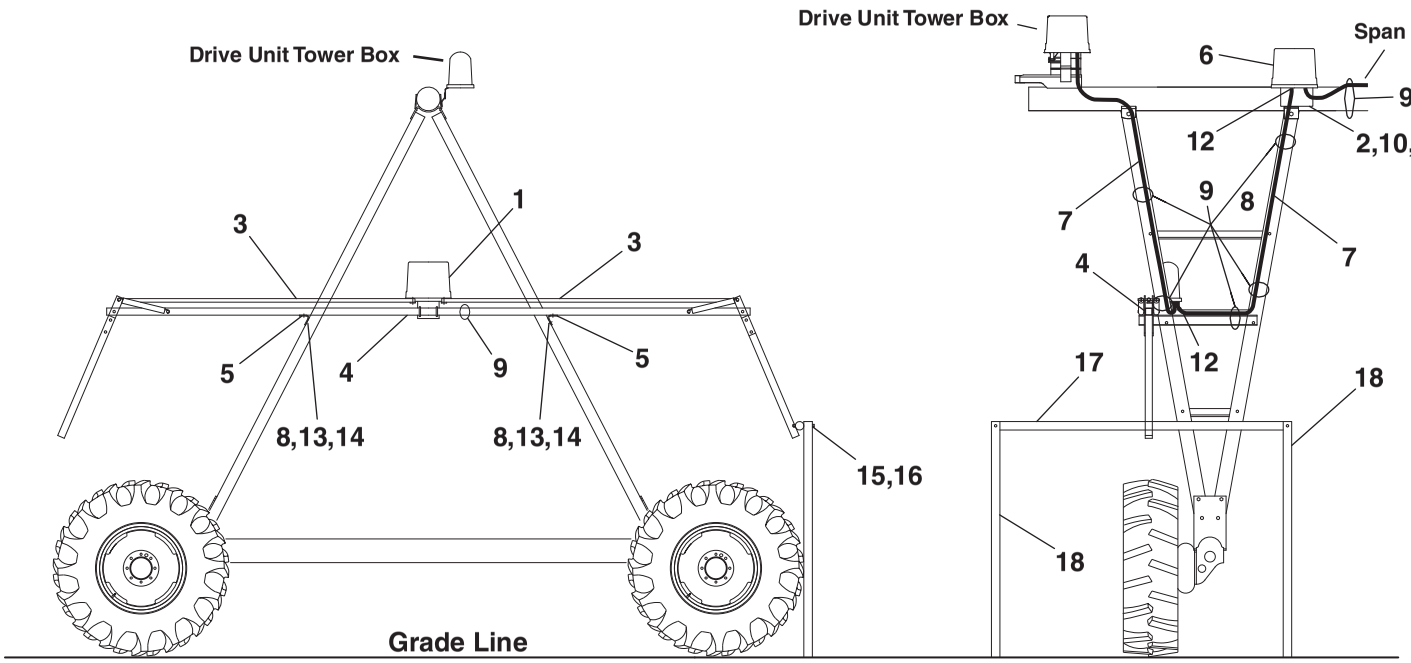






ITEM	DESCRIPTION	PART #
1	Warning: Inflation Pressure	0997494
2	Warning: Inflation Pressure	0997472
3	Warning: Inflation Pressure	0991532
4	Warning: Inflation Pressure	0991593
5	Warning: Inflation Pressure	0991366
6	Warning: Inflation Pressure	0996109
7	Warning: Stay Clear	0992751

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Based on Standard Profile Drive Unit with 11.2 x 24" retreads and must be adjusted for other profiles and tire sizes.

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

ITEM	DESCRIPTION	PART #
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

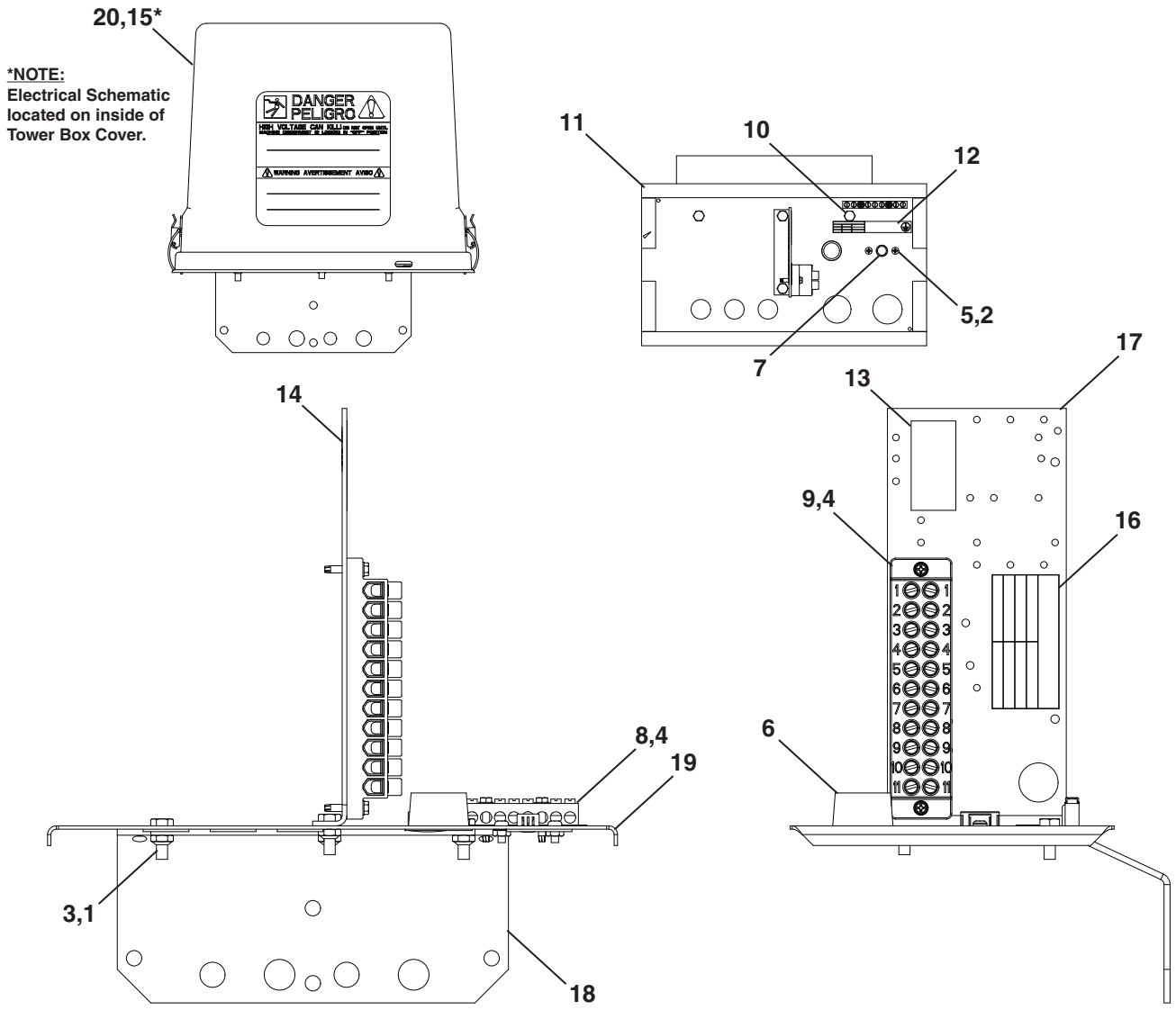
Add End of Field Stop	0000A74
Add End of Field Auto Reverse	0000A75
Add End of Field Stop - Low Profile	0000E07
Add End of Field Auto Reverse - Low Profile	0000E06
Add End of Field Stop - High Profile	0000E08
Add End of Field Auto Reverse - High Profile	0000E09
Add End of Field Stop - Ultra High Profile	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

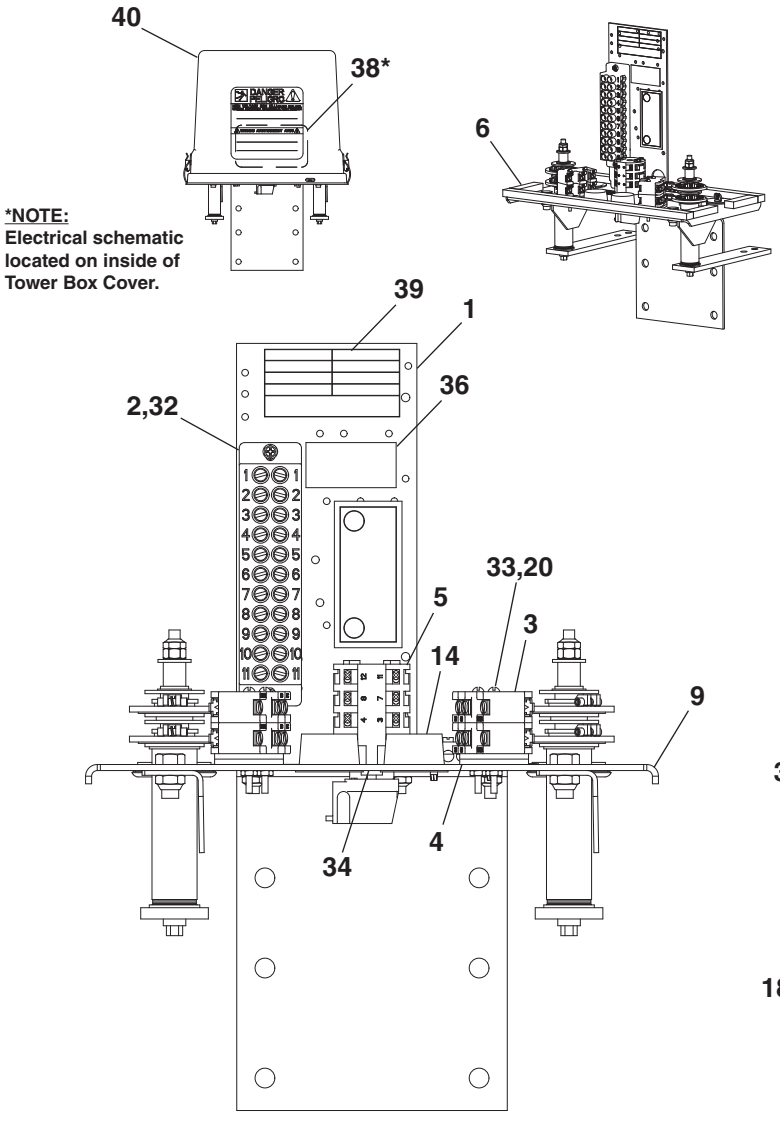
ITEM	DESCRIPTION	PART #
9	Mount - 33" End-to-End	9360846
	Mount - 38.88" End-to-End(Low Profile)	1780768
	Mount - 30.41" End-to-End(High & Ultra High Prof.)	9361040
10	Spring	0181007
11	1/2" x 6" All-Thread	1731414
12	1/2"Lock Nut	0133005
13	1/2" Hex Nut	0131015
14	1/2" Flat Washer	0142026
15	Side Plate	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

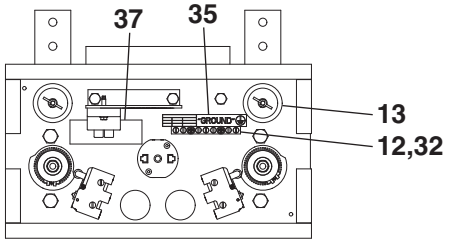
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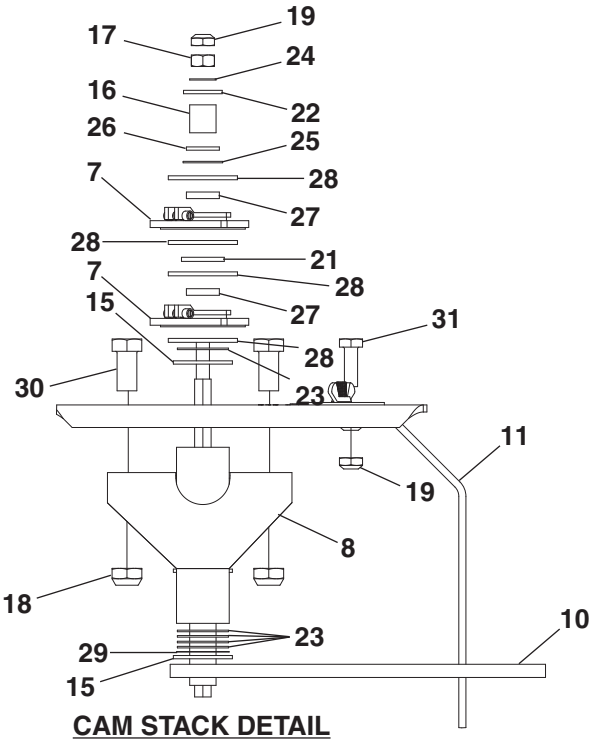


***NOTE:**
Electrical schematic located on inside of Tower Box Cover.

EFFECTIVE
June 2001

TOP VIEW





CAM STACK DETAIL

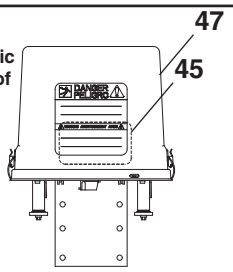
ITEM	DESCRIPTION	PART #
1	Vertical Plate	1702053
2	Terminal Block	03E1899
3	Micro Switch	03E0307
4	Insulator	1701632
5	Disconnect Switch	0315746
6	Gasket Kit	0992071
7	Adjustable Cam	0314630
8	Sensor Bearing Assembly w/Bushing	1703336
9	Bottom Plate	9332173
10	Cam Shaft Assembly	1731734
11	Mounting Plate	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

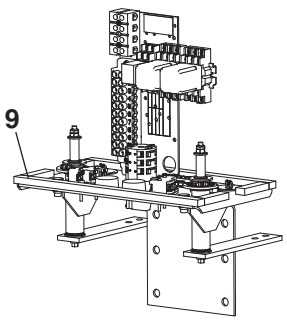
ITEM	DESCRIPTION	PART #
22	1/4" Flat Washer	0142022
23	Washer .030 x .510 x .968 - Stainless Steel	0143047
24	1/4" Belleville Washer - Stainless Steel	0143054
25	3/8" Belleville Washer - Stainless Steel	0143055
26	Washer .625 x .375 x .062 - Stainless Steel	0143059
27	Washer .625 x .375 x .125 - Stainless 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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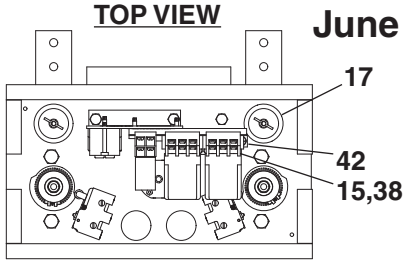
EFFECTIVE
June 2001

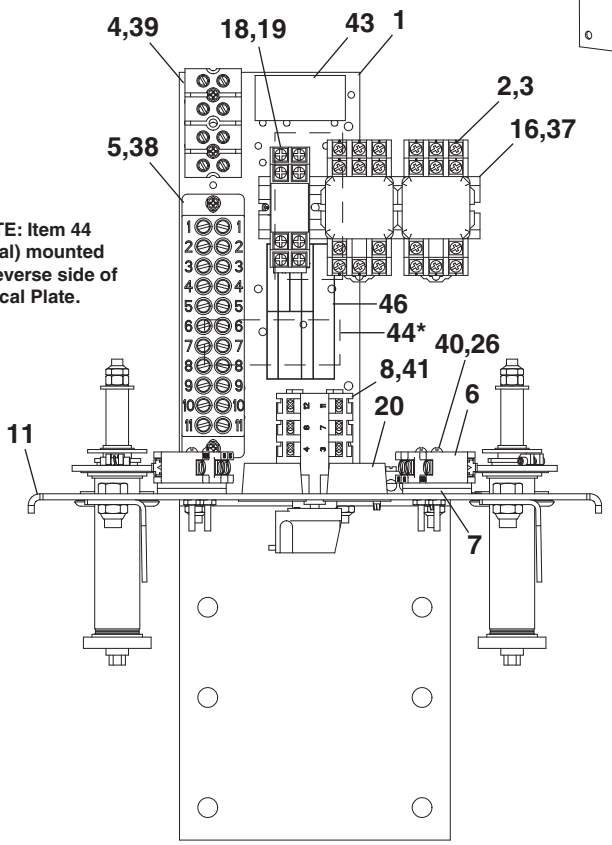
***NOTE:**
Electrical schematic located on inside of Tower Box Cover.



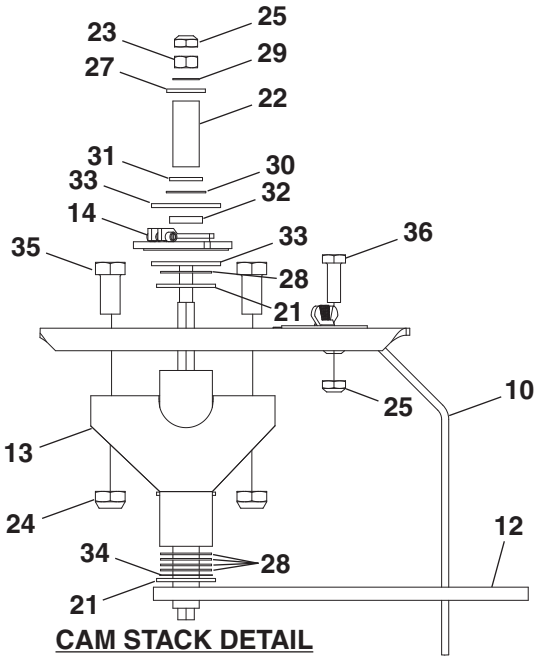


TOP VIEW





***NOTE: Item 44 (Decal) mounted on reverse side of Vertical Plate.**

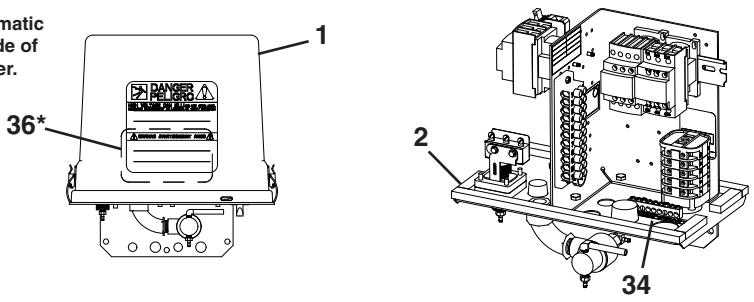


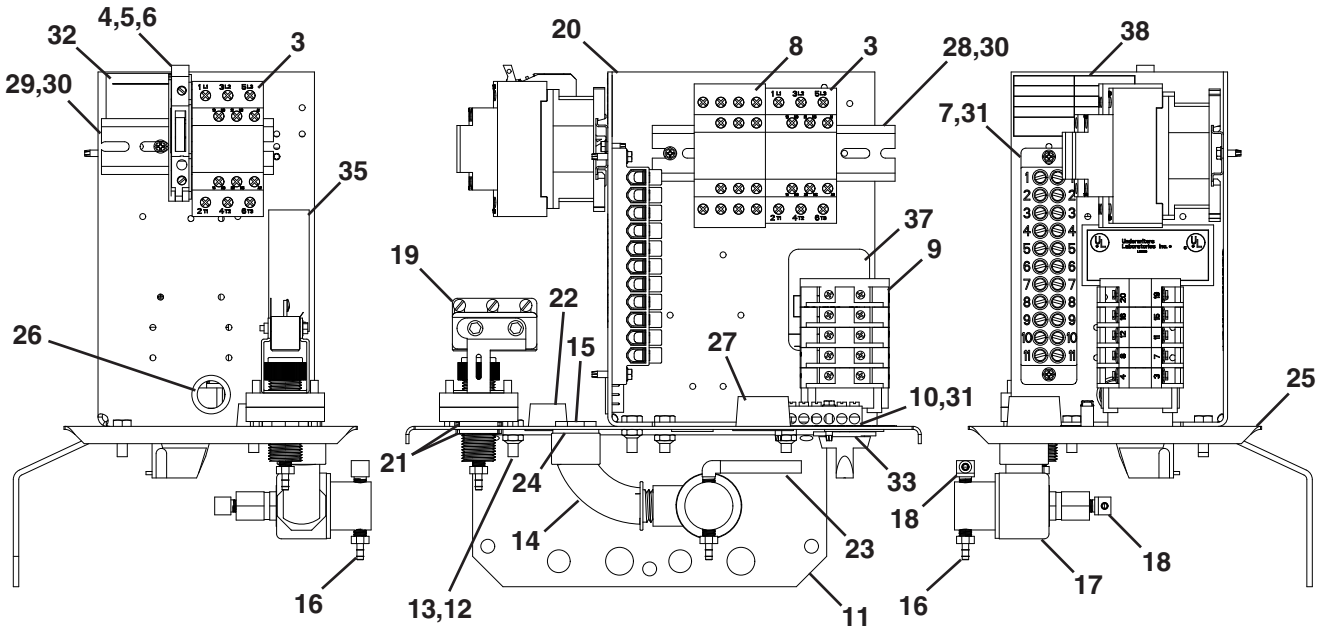
CAM STACK DETAIL

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
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.



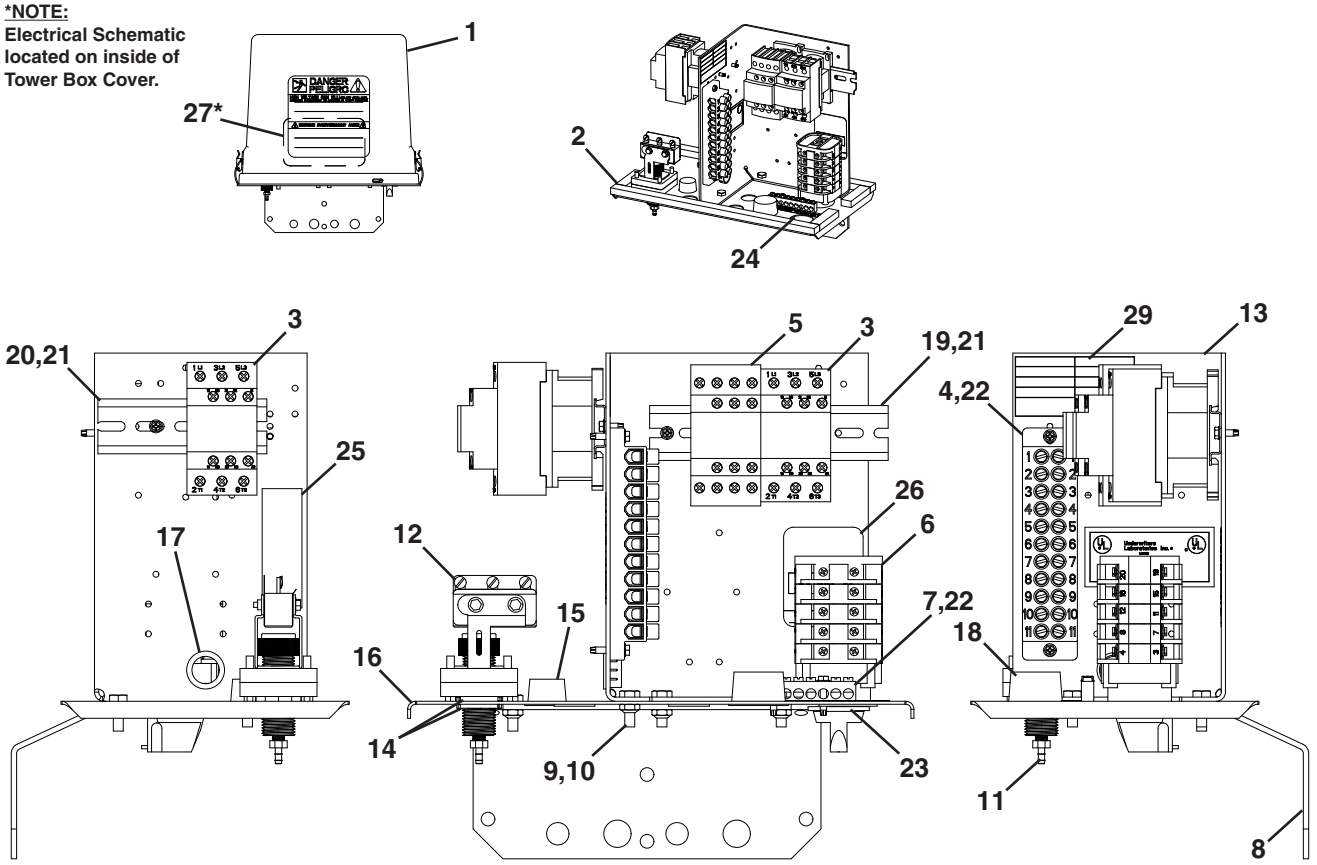


ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Gasket Kit	0992071
3	Contactor - 25 Amp 120V 3-Pole (Boxed)	03E3785
4	Fuse - 1.5A	0314858
5	Fuse Block - Din Rail Mount	03E2997
6	Fuse Block Cover	03E2998
7	Terminal Block, 600V	03E1899
8	4 Pole Contactor - 40A 120V	03E3542
9	Disconnect Switch	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.

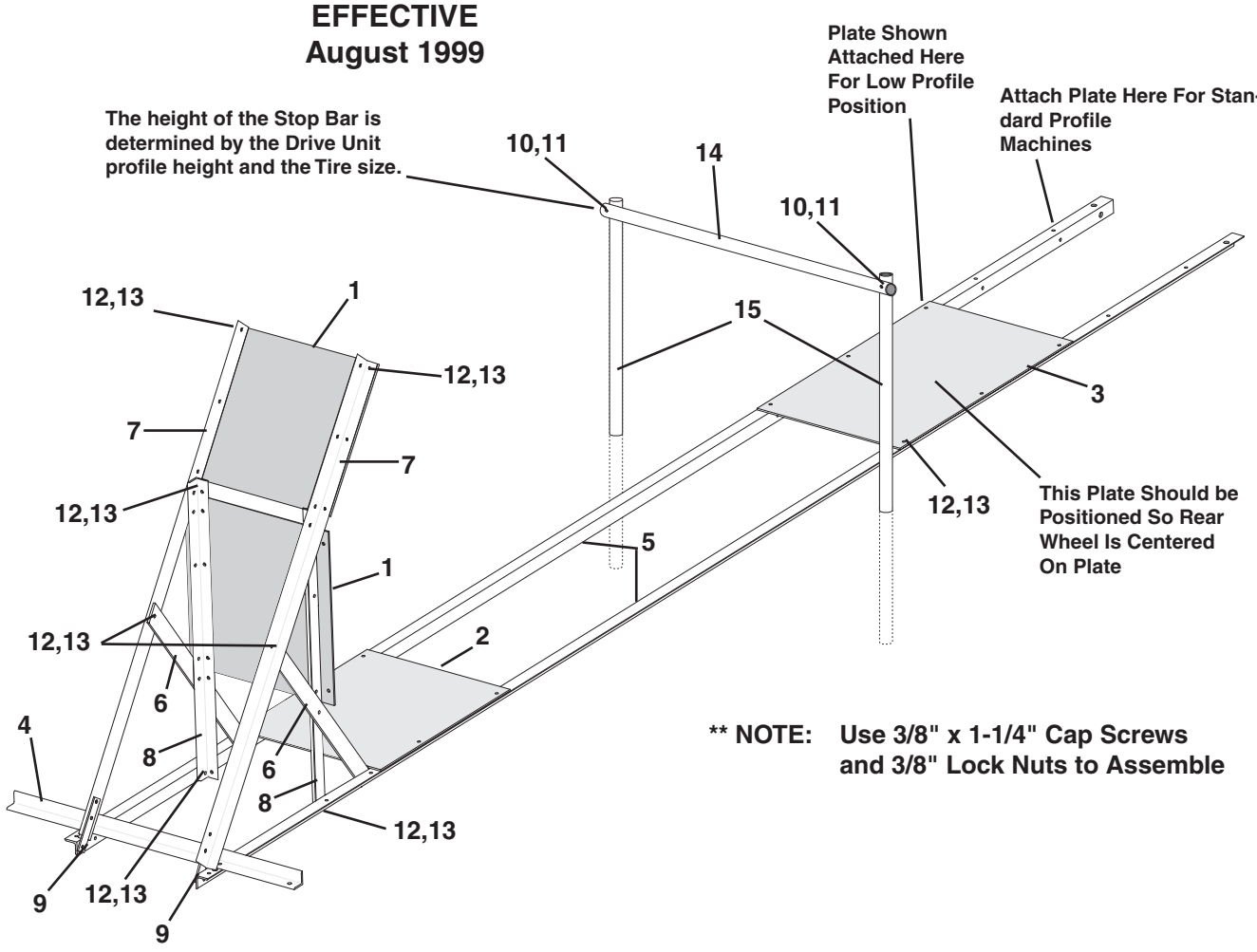


ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Gasket	0992071
3	3 Pole Contactor - 25A 120V (Boxed)	0993734
4	Terminal Block, 600V	03E1899
5	4 Pole Contactor - 40A 120V	03E3542
6	Disconnect Switch	0314540
7	Grounding Lug	0315120
8	Mounting Plate	1702054
9	1/4" Lock Nut	0133008
10	1/4" x 3/4" 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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EFFECTIVE
August 1999



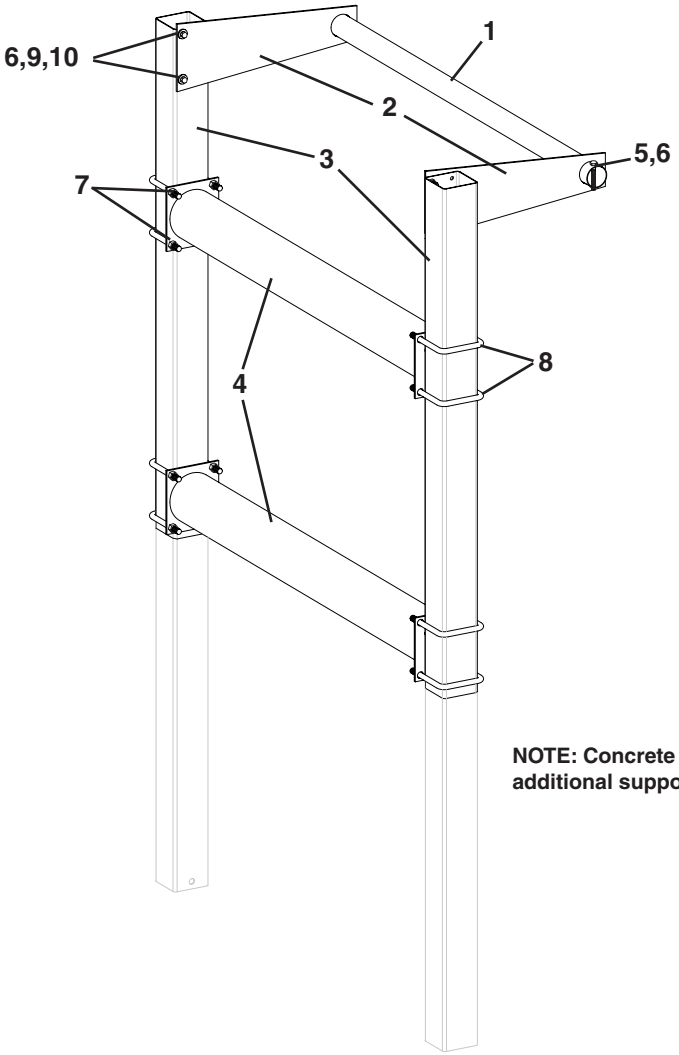
**** NOTE: Use 3/8" x 1-1/4" Cap Screws and 3/8" Lock Nuts to Assemble**

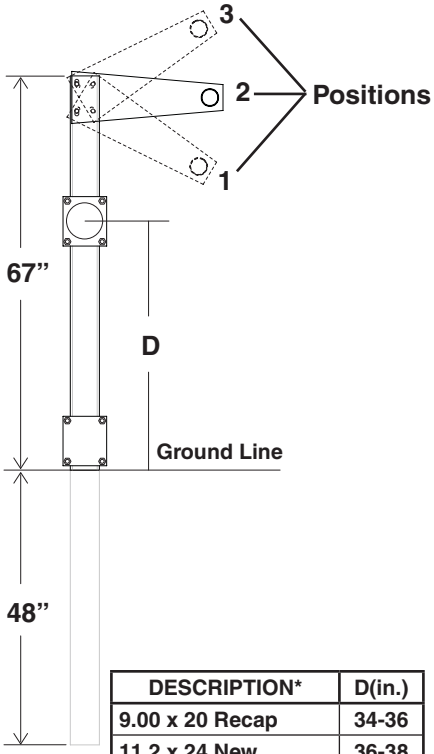
ITEM	DESCRIPTION	PART #
1	Plate Stop 26" x 24"	1703519
2	Plate Front 30" x 24"	1781333
3	Plate Long 40" x 24"	1703689
4	Angle Foot 48" Long	1703515
5	Angle Base 240" Long	1703516
6	Support Brace	9360967
7	Verticle Angle	9360968
8	Support Angle	9360975
9	Support Bar	9360966
10	1/2" x 5-1/2" Cap Screw	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.

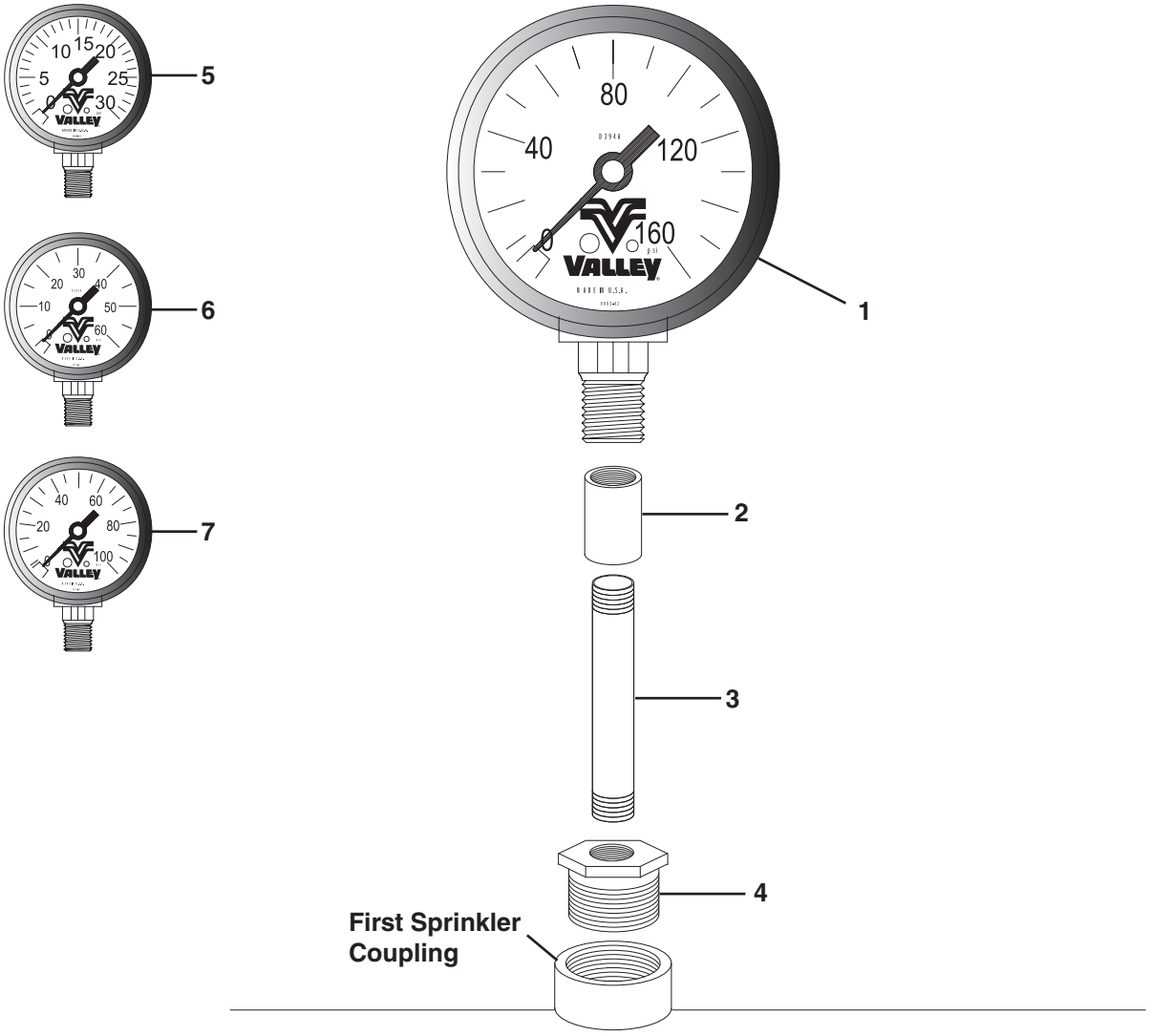
DESCRIPTION*	D(in.)
9.00 x 20 Recap	34-36
11.2 x 24 New	36-38
11 x 24.5 Recap	38-40
14.9 x 24 New	42-44
16.9 x 24 New	44-46
18.4 X 26 New	49-51
11.2 x 38 New	50-52

*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 **

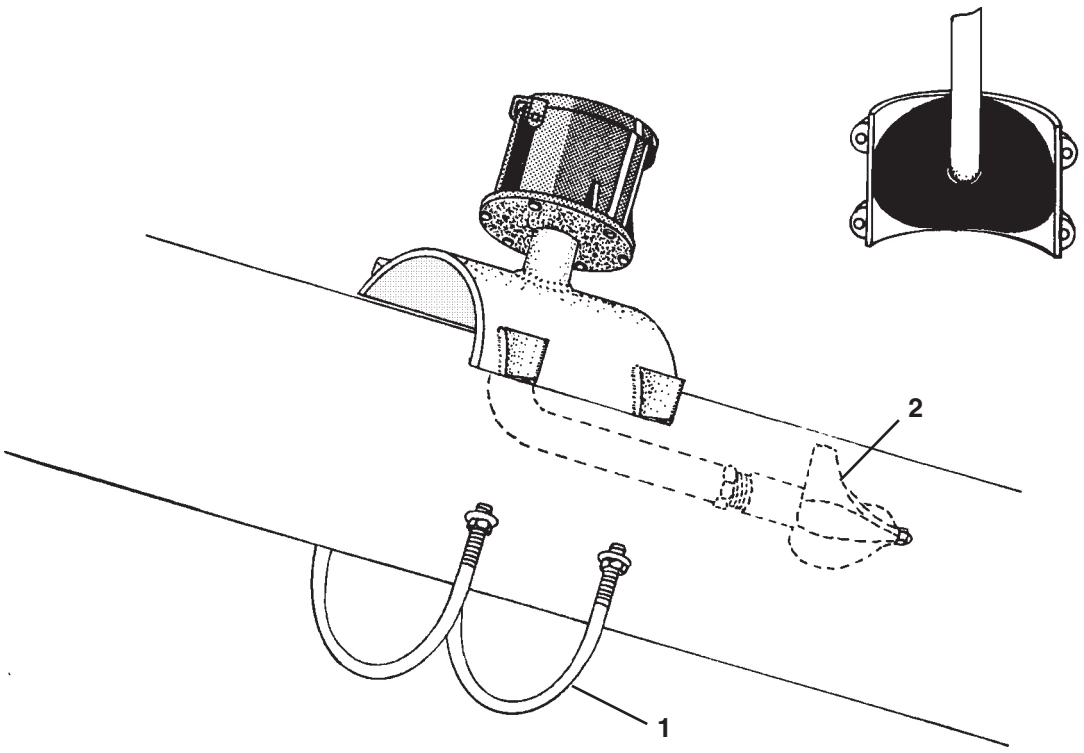
****End of Field Stop Barricade Hardware Kit KA09377***
*** End of Field Stop Barricade Post Type Package....0000E02**

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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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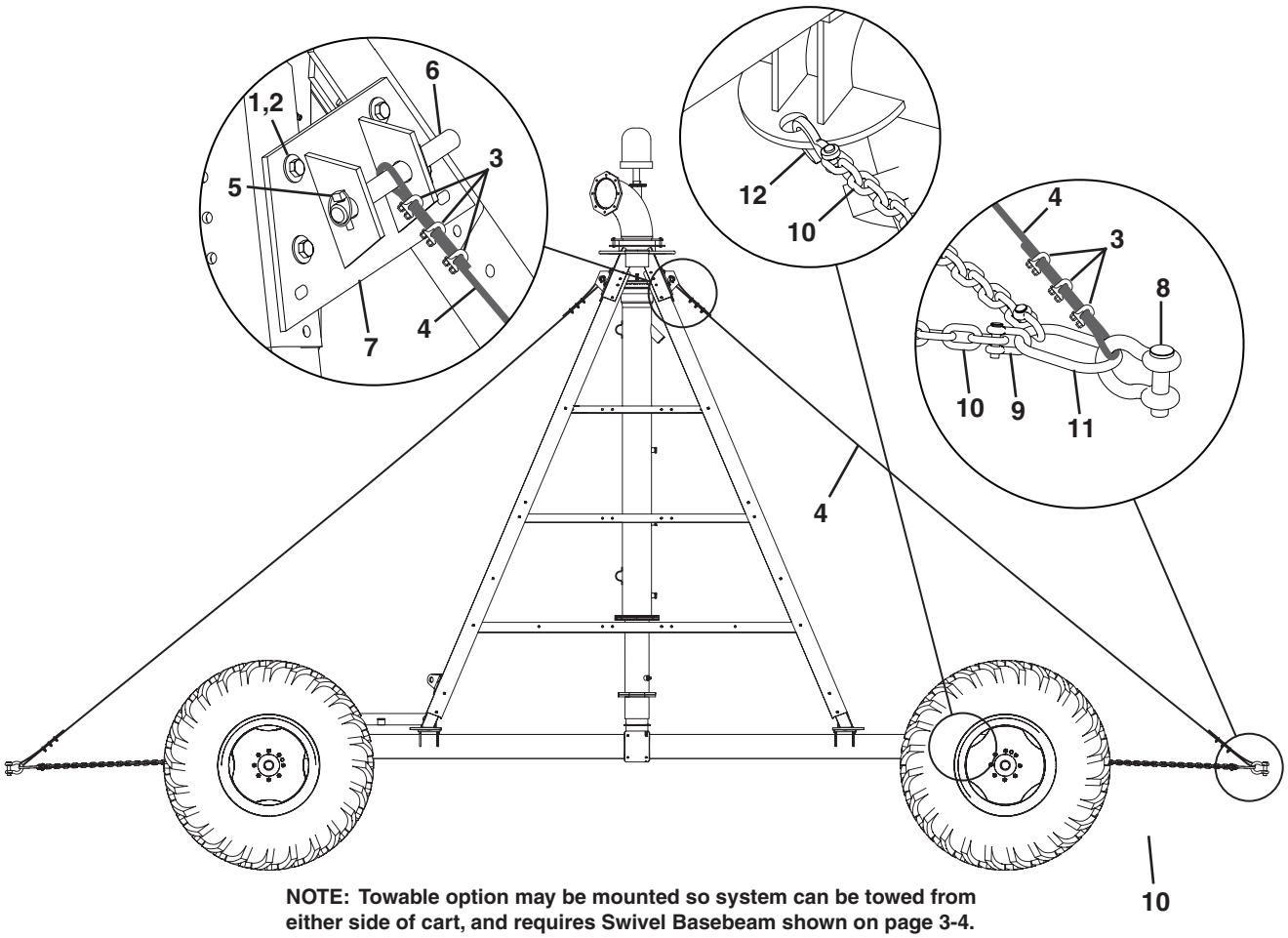


FLOWMETERS WITHOUT ELECTRONIC PULSE OUTPUT				
	12" O.D. x 11.79" I.D.		14" O.D. x 13.79" I.D.	
DESCRIPTION — Max Flow	3750 GPM	236.6 Liters/Sec.	4500 GPM	283.9 Liters/Sec.
DESCRIPTION — Totalizer	Gallons	Cu. Meters	Gallons	Cu. Meters
Flowmeter Complete w/Gasket, U-Bolts, Nuts, Washers, Template for Cutting Hole — Horizontal Mount	0992642	0993380	0993616	0993565
1 U-Bolt w/Nuts & Washers	Included w/ Flow Meter		Included w/ Flow Meter	
2 Propeller (Service)	0995272		0995272	
Template to Cut Pipeline	Included w/ Flow Meter		Included w/ Flow Meter	

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Ext-Magnesium Anode 3/4" x 3/8" w/ 1/8" Core..... 0994509

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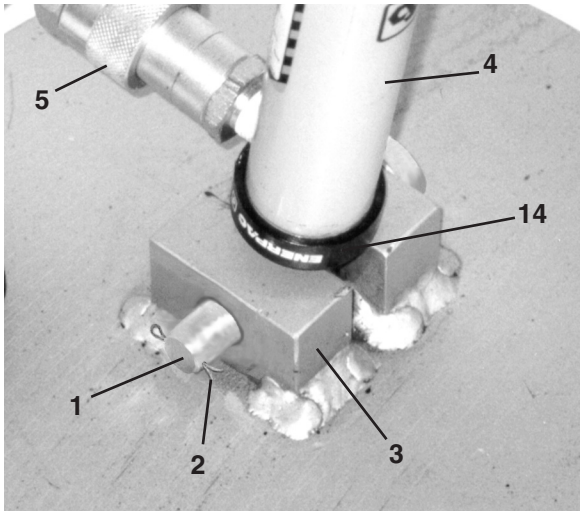
NOTE: Towable option may be mounted so system can be towed from either side of cart, and requires Swivel Basebeam shown on page 3-4.

ITEM	DESCRIPTION	PART #
1	1/2" x 2" Cap Screw	0161024*
2	1/2" Flat Washer	0142026*
3	Cable Clamp	0202011
4	Cable - 21' Long	0201031
5	5/16" Quick Pin	0993635
6	Tongue Pin	1703572
7	Swivel Anchor	9364310
8	Anchor Shackle	0991484
9	Chain Shackle	0992947**
10	86.5" Binding Chain	0995662**
11	Oblong Link	0995763**
12	Slip Hook	0992731**

*** NOTE: To secure Cap Screw & Washer use existing 1/2" Lock Nuts...0133005.**

**** NOTE: Items 9-12 come with Chain Towing hardware called out on Hose Ends for Tee Inlet page in Universal Linear section.**

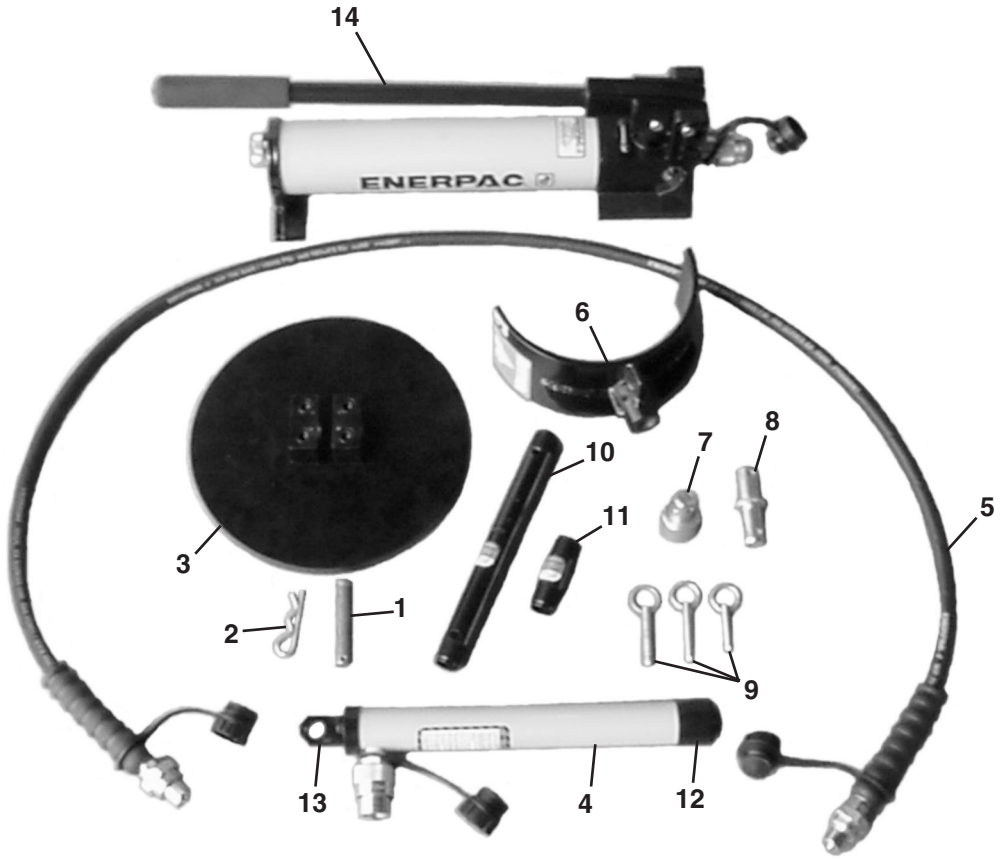
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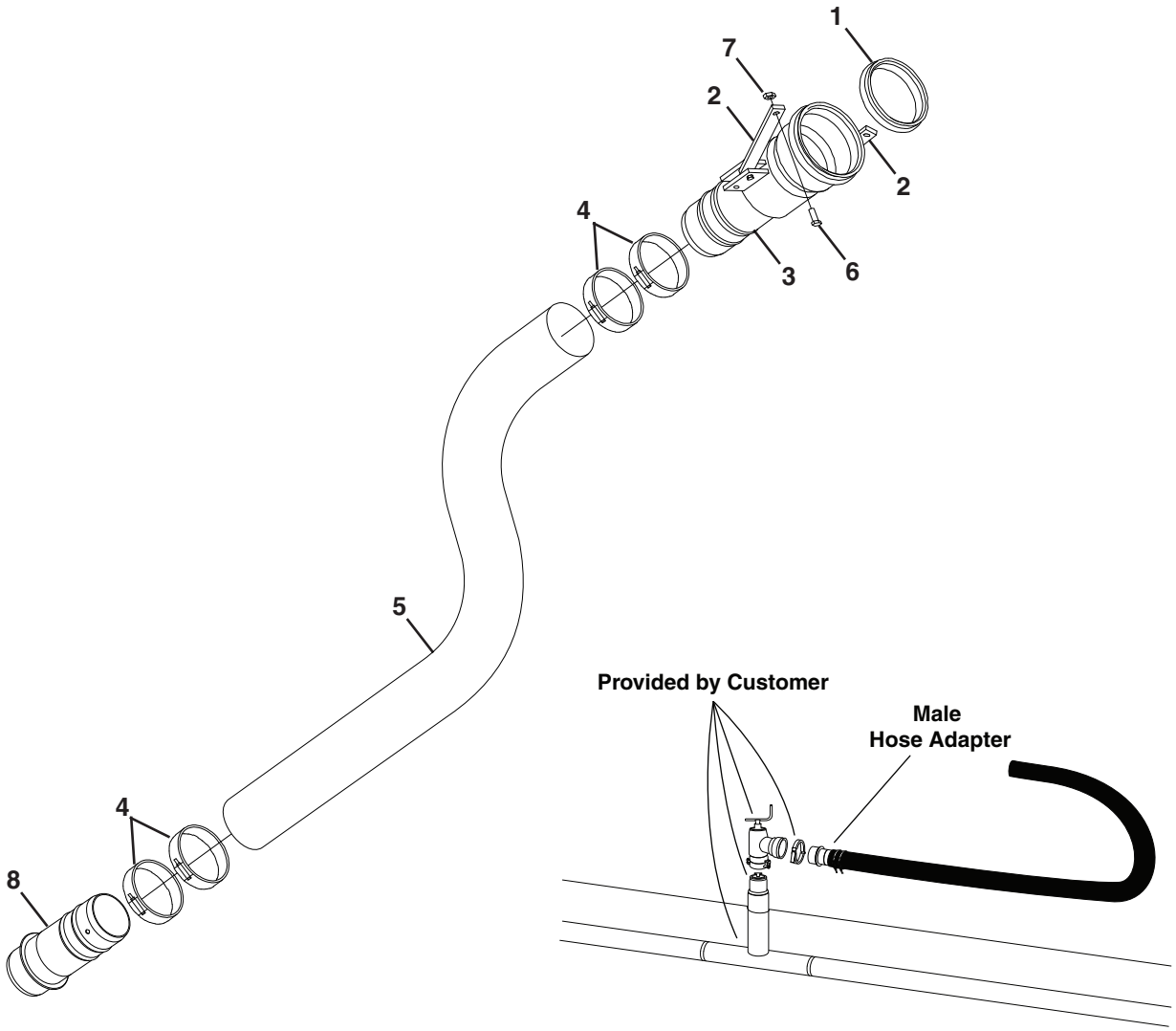
PRODUCTS NO LONGER AVAILABLE

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.

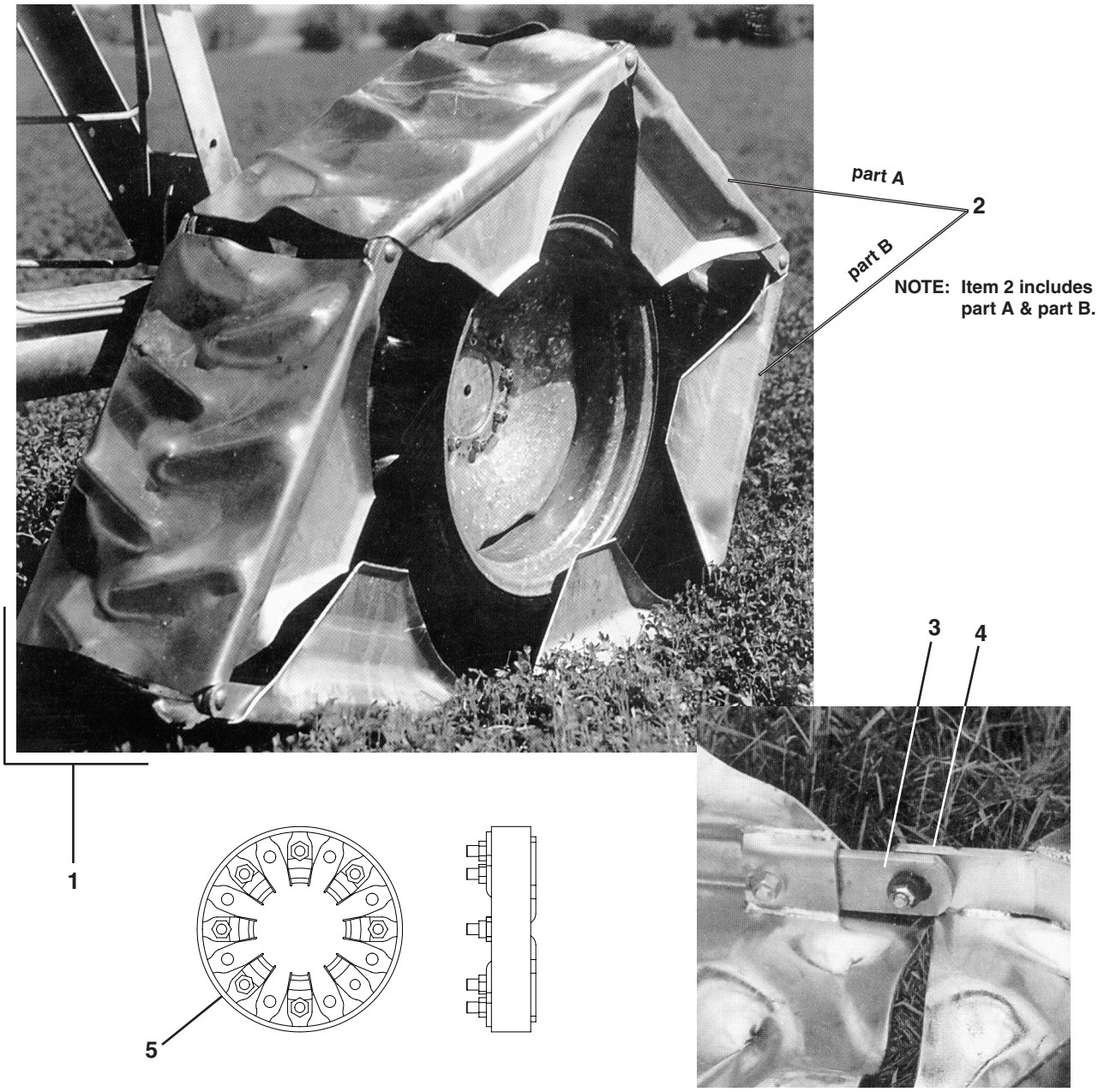


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ITEM	DESCRIPTION	6” Hose PART #	4-3/4” Hose PART #
1	Gasket	0221015(6”)	0221010(4”)
2	Adapter Strap	9332035	9332035
3	Female Hose Adapter	9362107(6”)	9362106(4”)
4	T-Bolt Clamp	0991186(6”)	0991186(6”)
5	Soft Hose	0272047(6”)	0272047(6”)
6	1/2” x 2” Cap Screw	0161024	0161024
7	1/2” Lock Nut	0133005	0133005
8	Male Hose Adaper	9361794	9361794

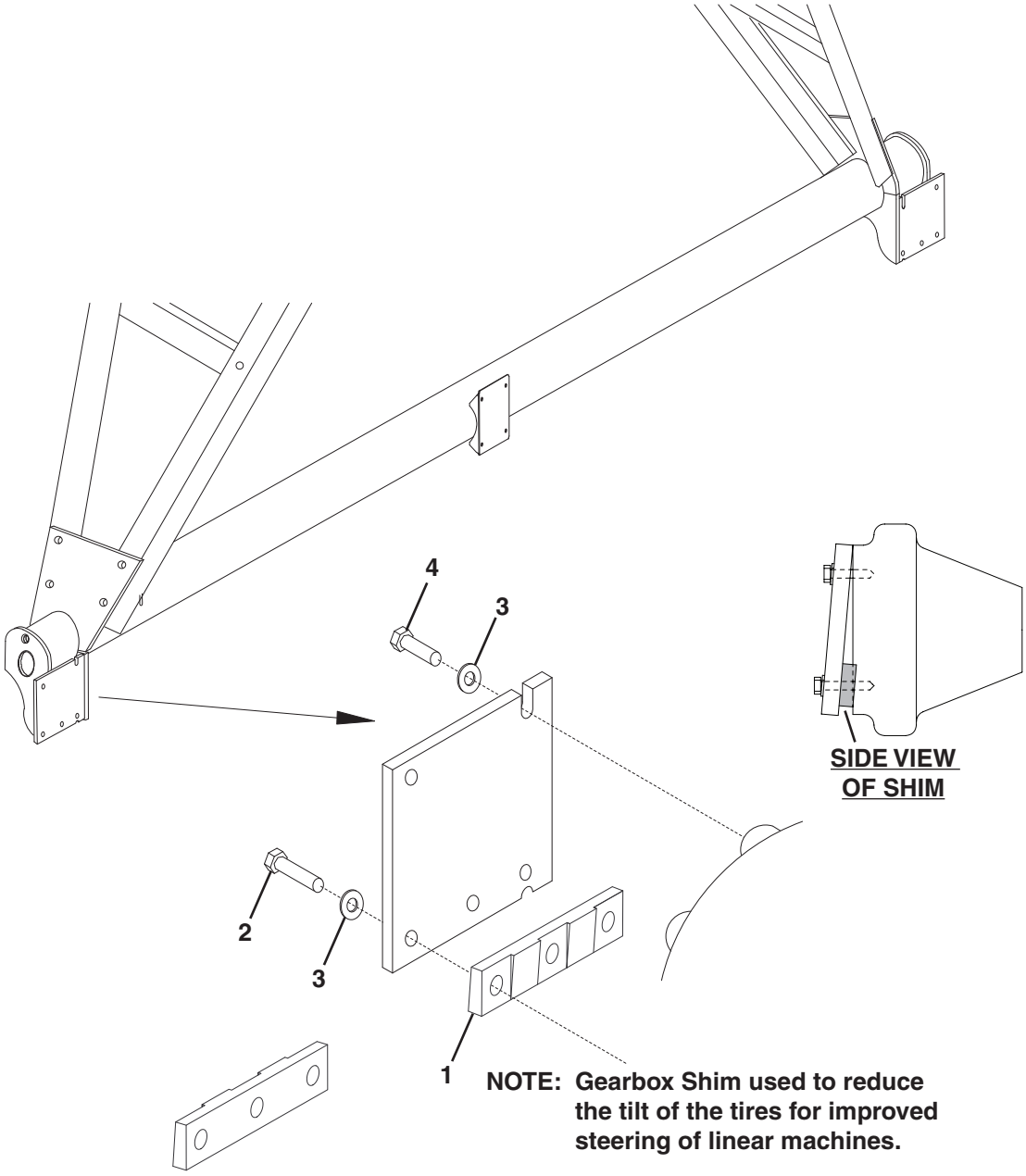
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ITEM	DESCRIPTION	PART #
1	COMPLETE Agri-TRAC for 11 x 22.5 per Drive Unit (2 Tires)	0996334
	COMPLETE Agri-TRAC for 11 x 24.5 per Drive Unit (2 Tires)	0997121
2	Agri-TRAC Replacement Track for 11 x 22.5 (part A & part B) OBSOLETE	0996337
	Agri-TRAC Replacement Track for 11 x 24.5 (part A & part B) OBSOLETE	0996338
3	Agri-TRAC Replacement Hinge (Plate; 1/2” x 5/8” Hardware)	0996336
4	5/8" Bushing	0996752
5	Agri-TRAC Wheel Spacer (lug nuts incl.)	0996391

NOTE: Agri-TRAC models prior to year 2000 utilize 1/2" bolts w/ 1/2" bushings. This hinge kit will not work for pre 2000 models.

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NOTE: Gearbox Shim used to reduce the tilt of the tires for improved steering of linear machines.

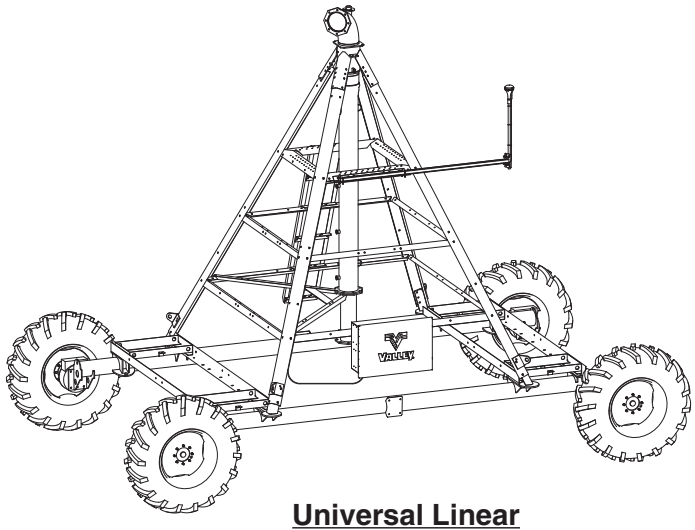
ITEM	DESCRIPTION	PART #
1	Tapered Shim	9363166
2	1/2" x 1-3/4" Cap Screw	0161029
3	1/2" Flat Washer	0142025
4	1/2" x 1-1/4" Cap Screw	0161027

*** COMPLETE Tapered Shim Hardware Kit KA09780**

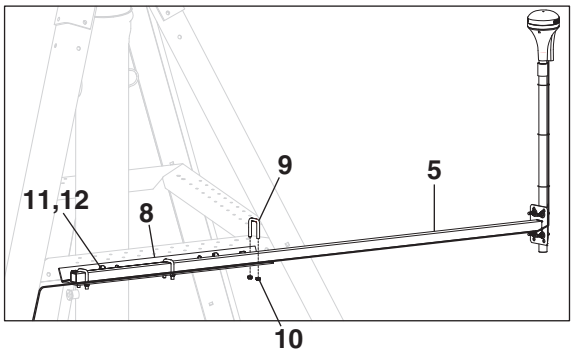
***NOTE: Kit contains 2 (ea.) Item 1 and 6 (ea.) Item 2 & 3.**

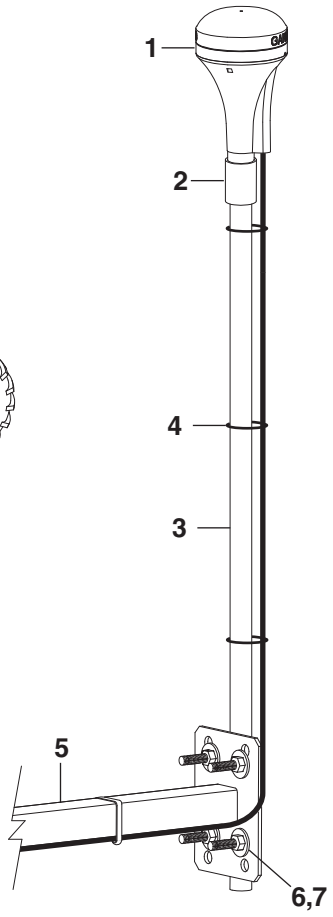
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For Linear w/ pro2 AutoPilot ver. 1.10 or later



Universal Linear

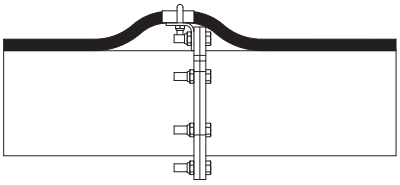




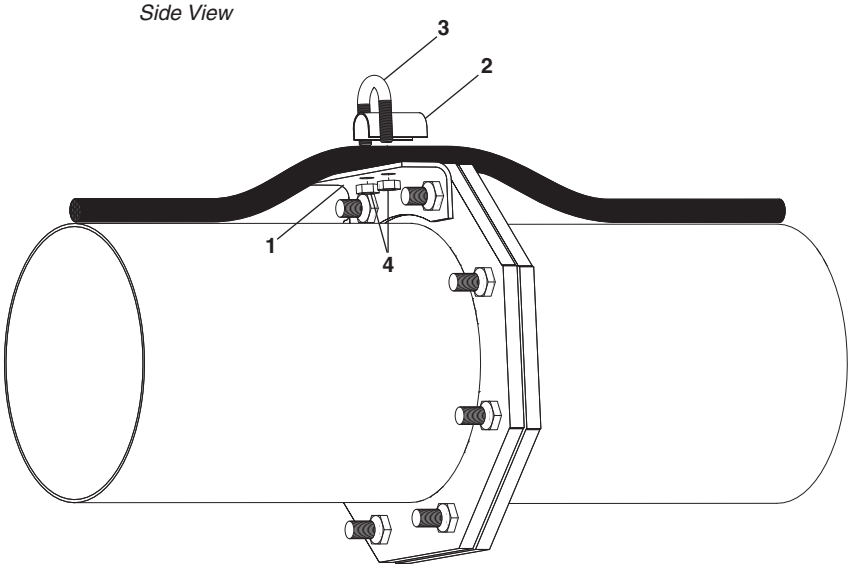
ITEM	DESCRIPTION	PART #
1	GPS - 19X HVS Programmed - Garmin	03E3466
*2	GPS Mount Adapter	1704153
3	3/4" x 24" Nipple - Galvanized	0211133
*4	Cable Tie	0314834
5	Antenna Mount Arm	1704195
*6	5/16" U-Bolt	0176064
*7	5/16" Flat Washer	0142017
8	Mounting Bracket	1703727
*9	3/8" U-Bolt	0176070
*10	3/8" Lock 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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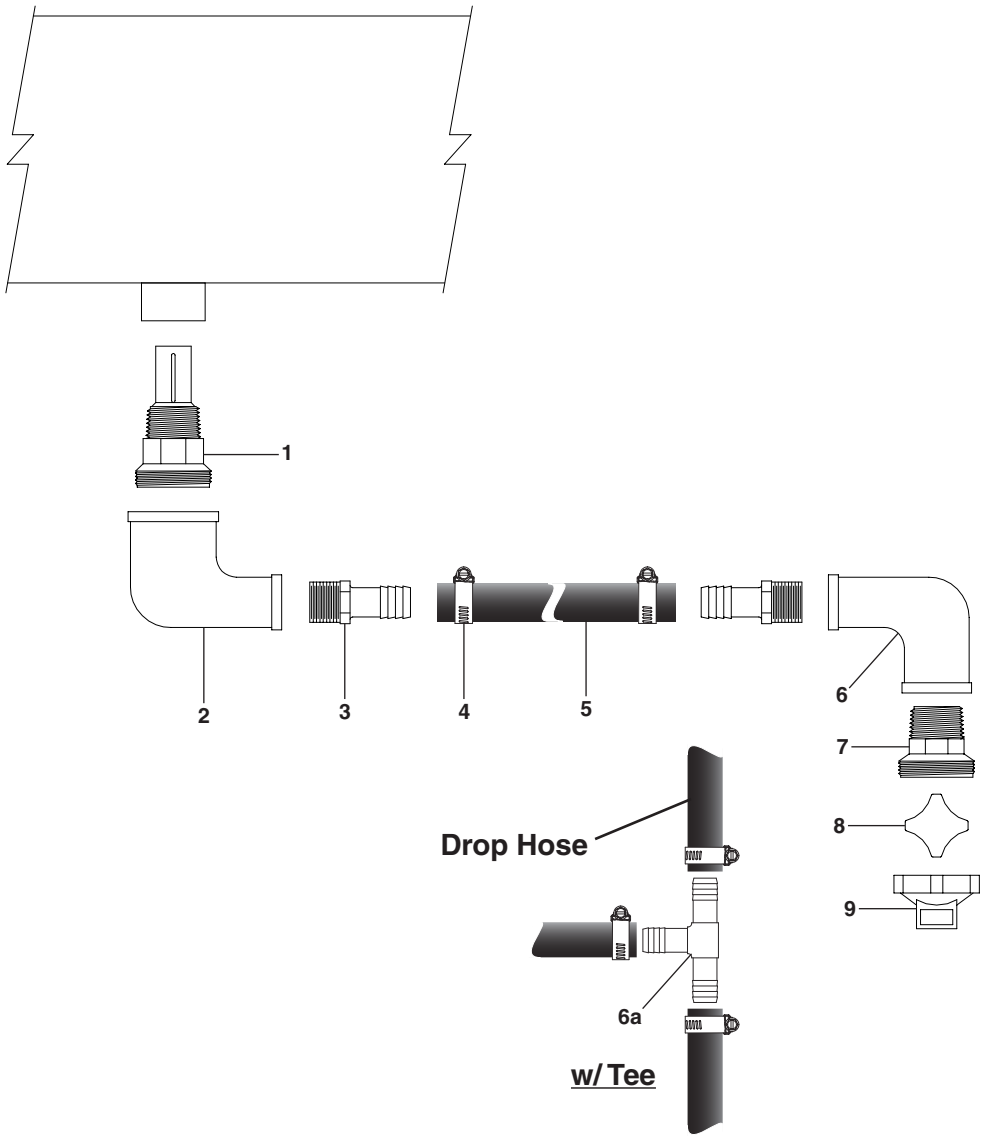


Side View



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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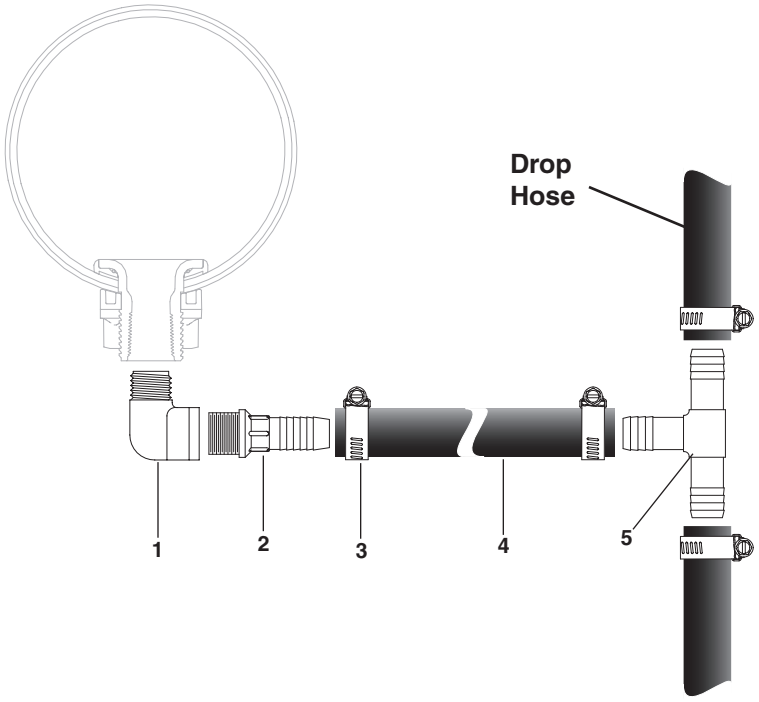


ITEM	DESCRIPTION	PART #
1	Upper Drain Body	0246170
2	1-1/2" x 3/4" Reducer Elbow	0241097
3	3/4" x 3/4" NPT Hose Barb	0271077
4	3/4" Hose Clamp	0271001
5	3/4" Flex Hose - 15 ft. Long	0272033
6	1" x 3/4" Reducer Elbow	0241098
6a	3/4" x 3/4" x 3/4" Tee Insert	0242071
7	Upper Drain Body	0232023
8	Drain Seal	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

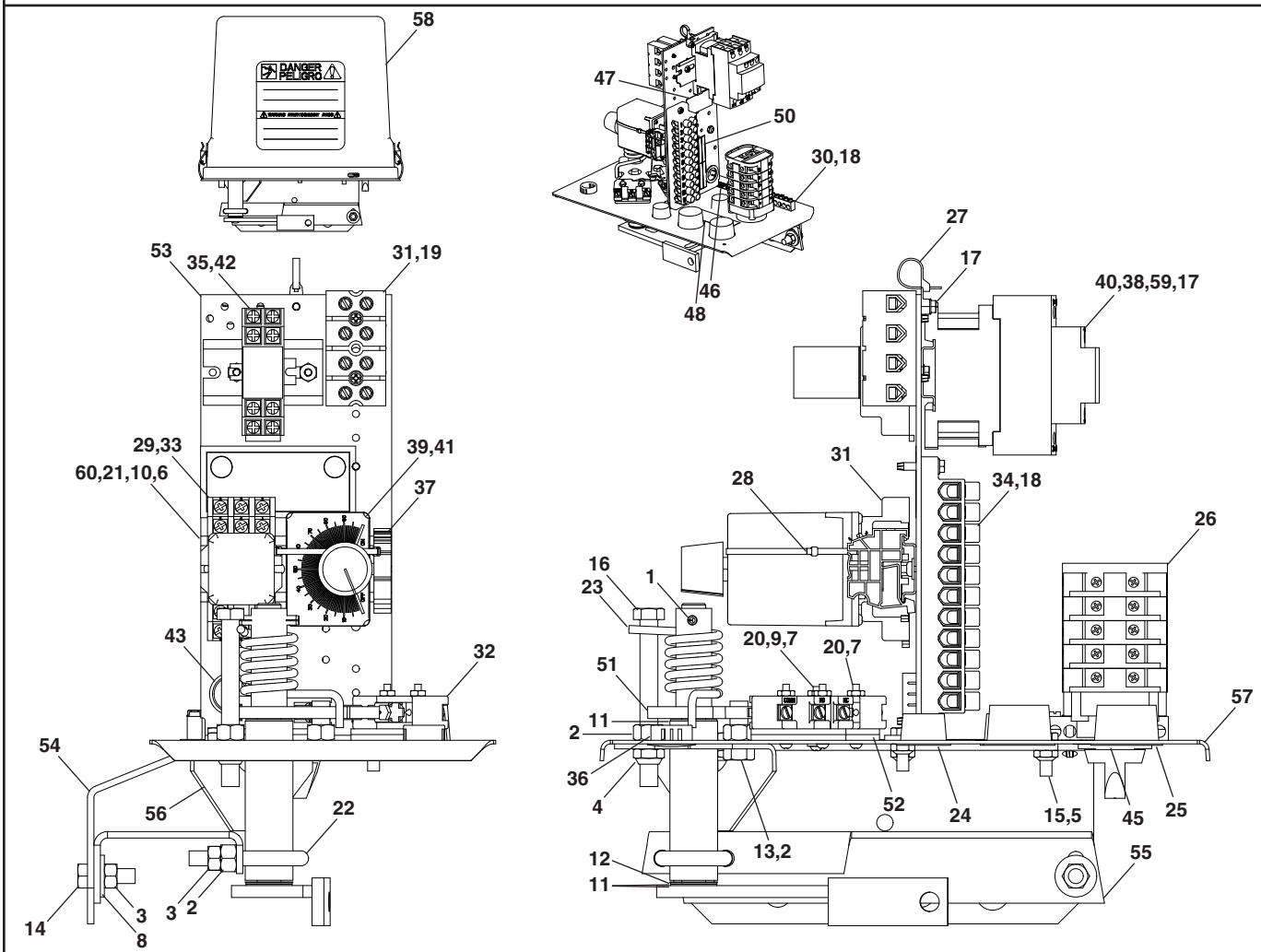
* NOTE: Tyton Ty Wraps included in both kits.

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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

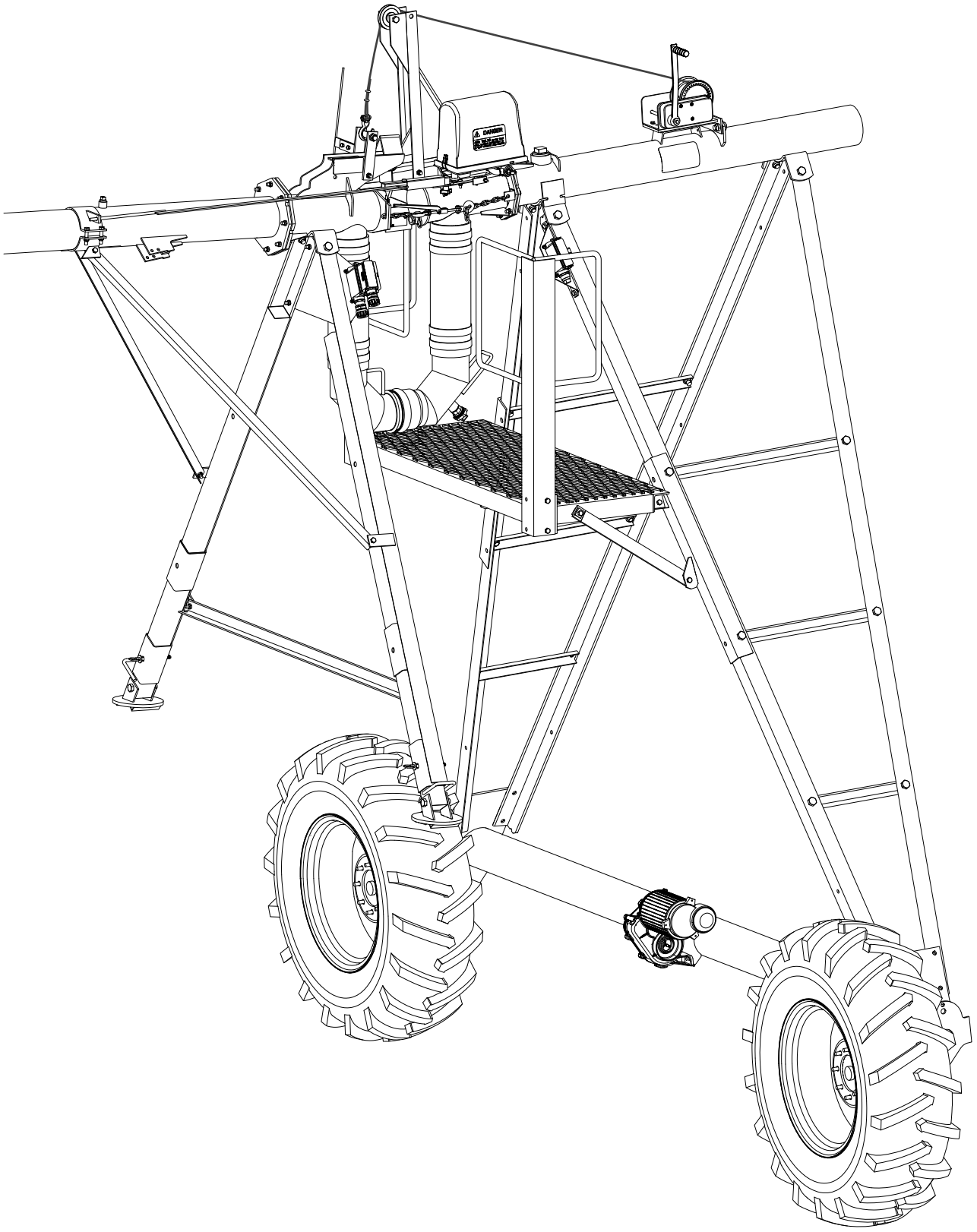
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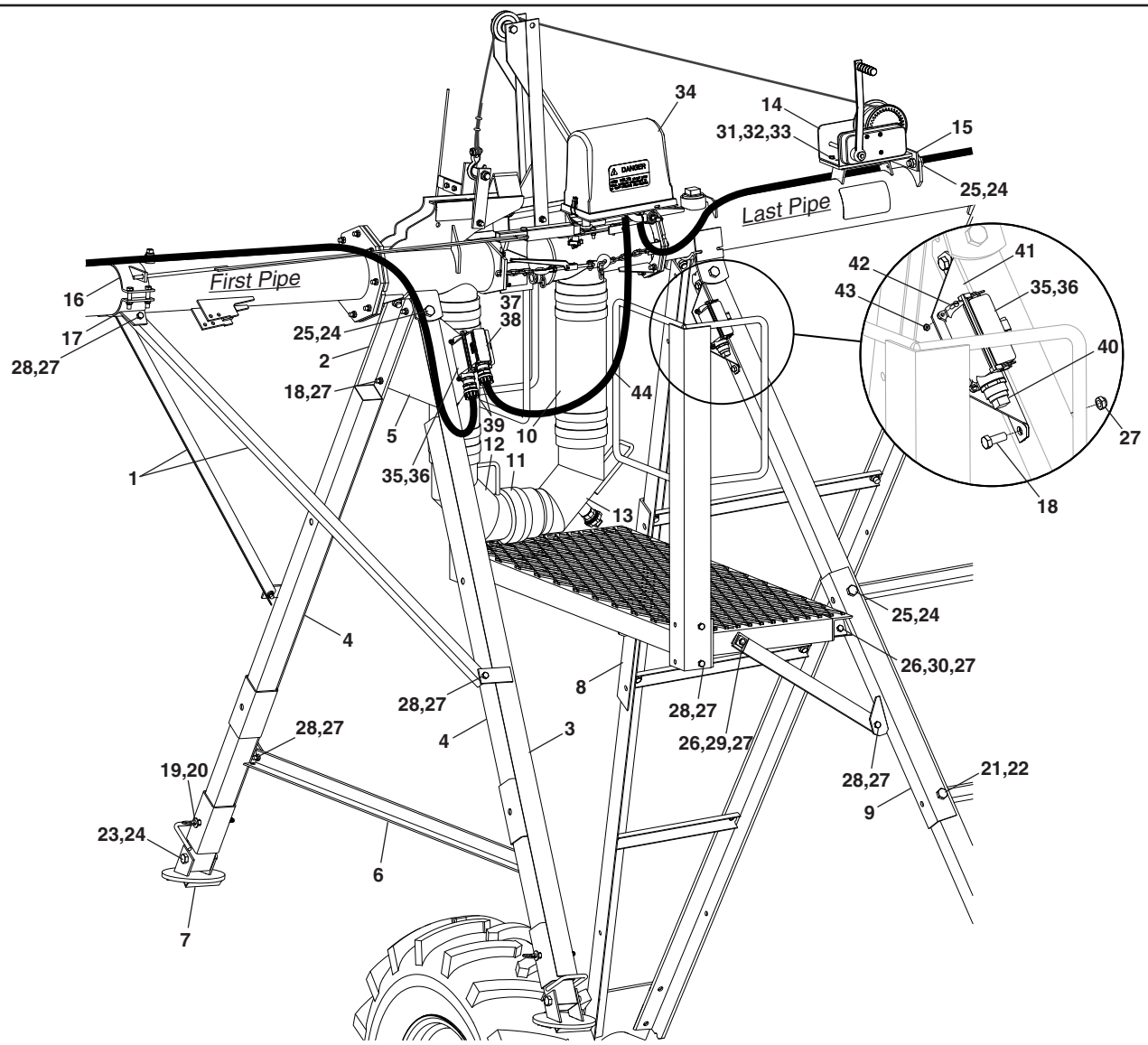
ITEM	DESCRIPTION	PART #
1	3/16" x 1-1/4" Roll Pin	0111017
2	3/8" Hex Nut	0131018
3	5/16" Hex Nut	0131019
4	3/8" Lock Nut	0133006
5	1/4" Lock Nut	0133008
6	#8 Hex Nut	0134023
7	#6 Hex Nut	0134027
8	5/16" Flat Washer	0142017
9	#6 Flat Washer	0142074
10	#8 Flat Washer .049 x .188 x .438 - Stainless Steel	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	Contactor - 25 Amp 120V 3-Pole (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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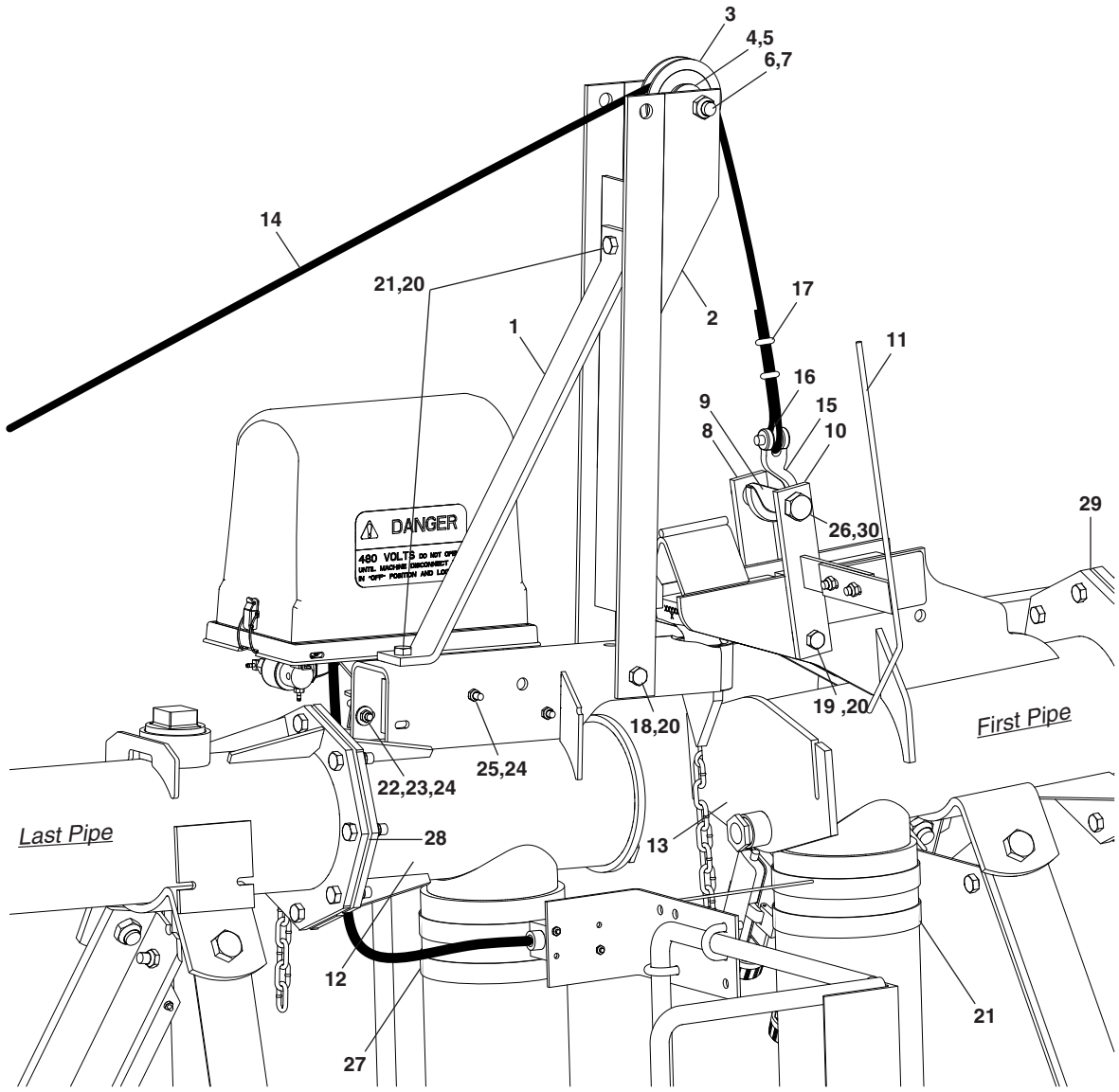


ITEM	DESCRIPTION	PART #
1	Brace - Medium Truss	1701645
2	Support Leg Assm. - Front	9364011
3	Support Leg Assm. - Rear	9364012
4	Support Tube Assm	9364041
5	Drive Unit Reinforcing Plate	1780400
6	Truss Spreader	9360049
7	Foot Pad Assm.	9364016
8	Platform Mount Assm. - Front	9364024
9	Platform Mount Assm. - 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*

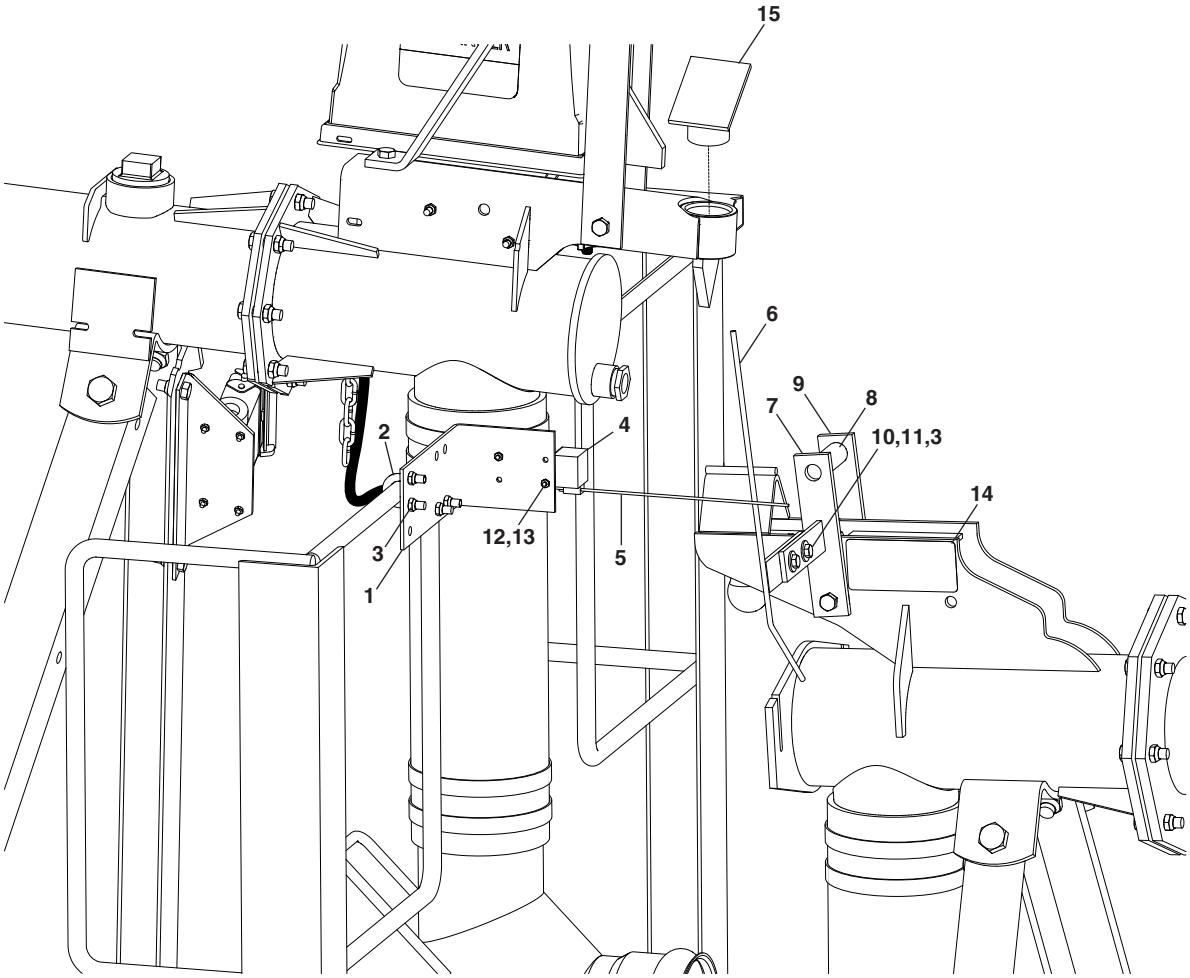
*DropSpan Electrical Hardware Kit KA01499

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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
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

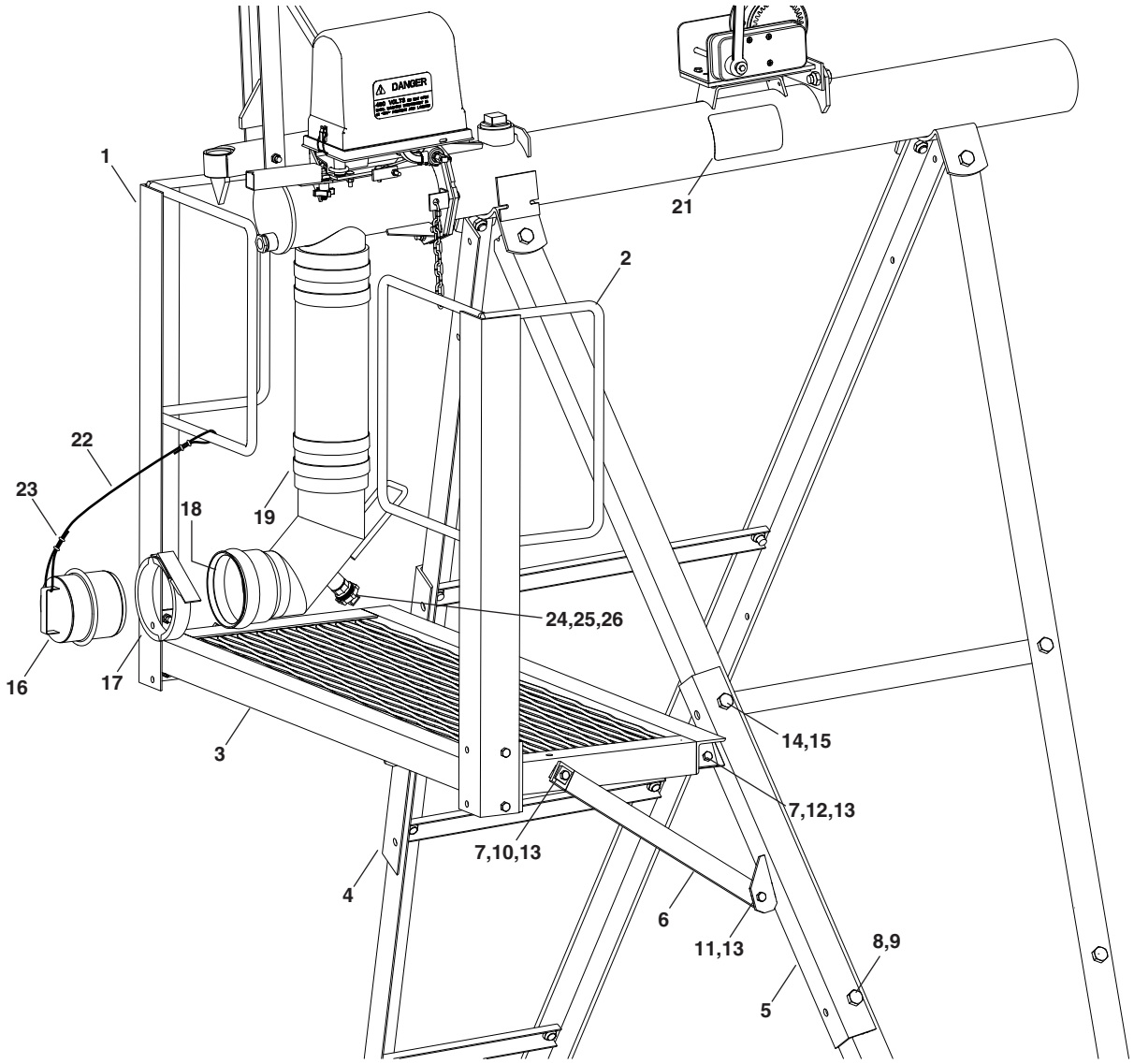
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ITEM	DESCRIPTION	PART #
1	Switch Mount Bracket	9364043
2	3/8" x 5/16" U-Bolt - 1-3/4" Lont	0176035 *
3	3/8" Lock Nut	0133006 *
4	Limit Switch Assm	1811451 *
5	Microswitch Arm Lever	0315623 *
6	Stop Rod Assm	9363996
7	Lift Bar Assm.	9363994
8	Bushing 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

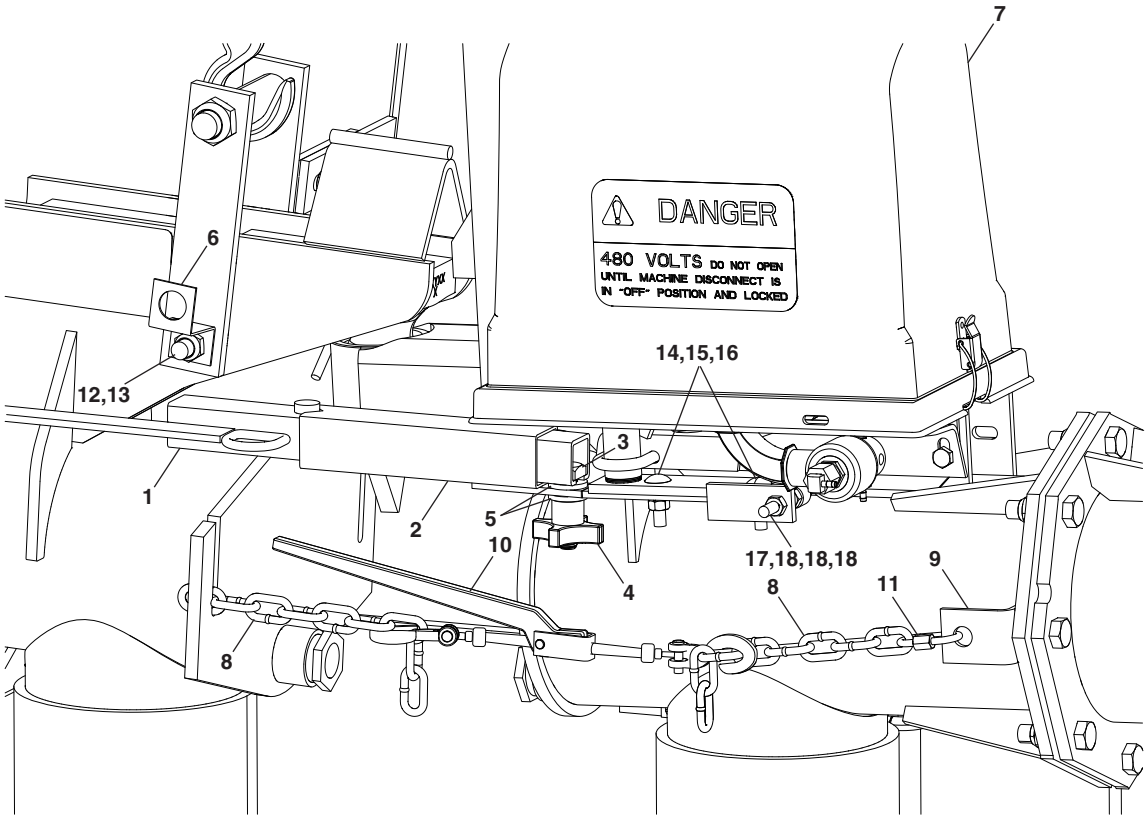
*** DropSpan Electrical Hardware Kit KA01499**

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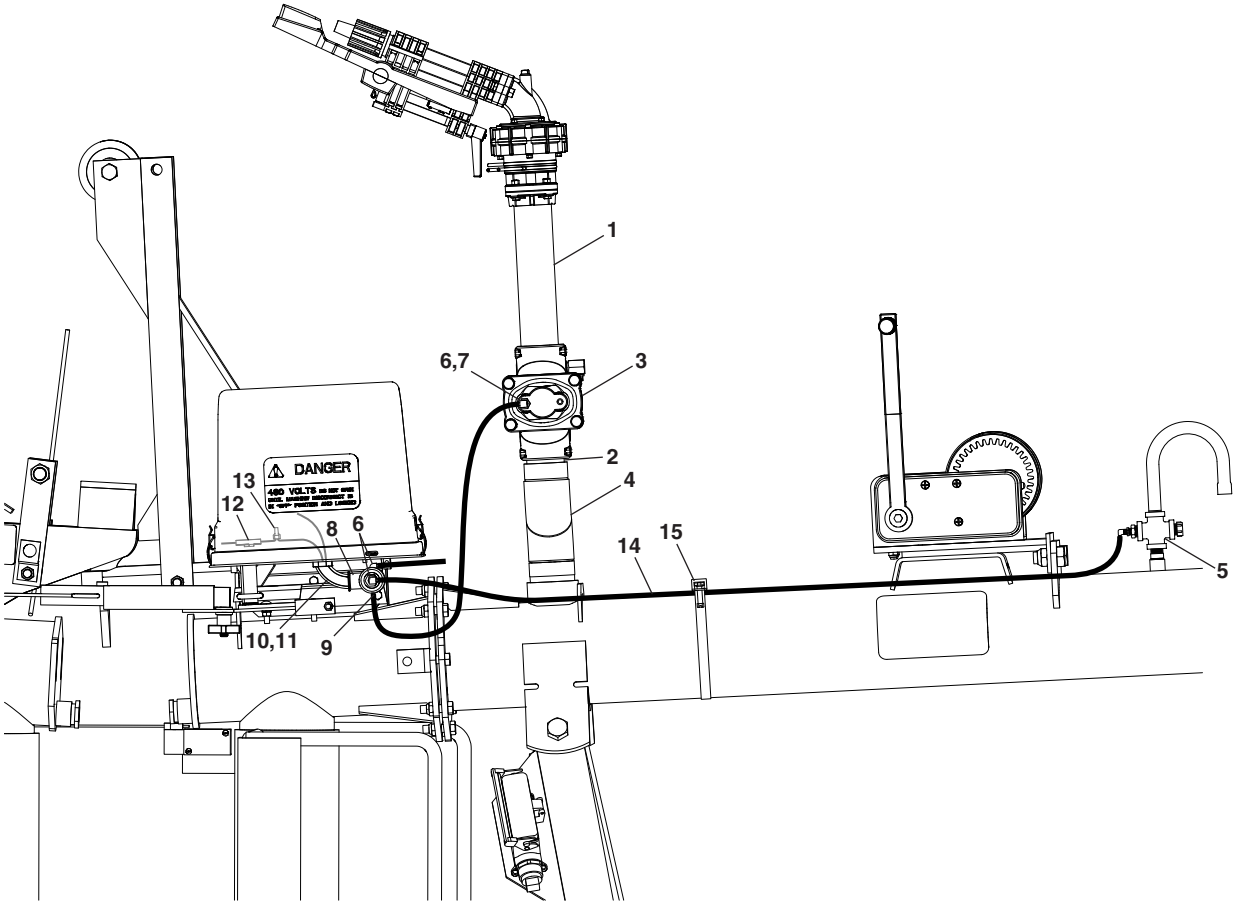
ITEM	DESCRIPTION	PART #	ITEM	DESCRIPTION	PART #
1	Platform Step Rail Assm. - RH	9363944	14	3/4" x 1-3/4" Cap Screw	0161139
2	Platform Step Rail Assm. - LH	9363943	15	3/4" Lock Nut	0133011
3	Platform Assm.	9364029	16	6" Ring Lock End Plug	1K01265
4	Platform Mount Assm. - Front	9364024	17	6" Circle Lock 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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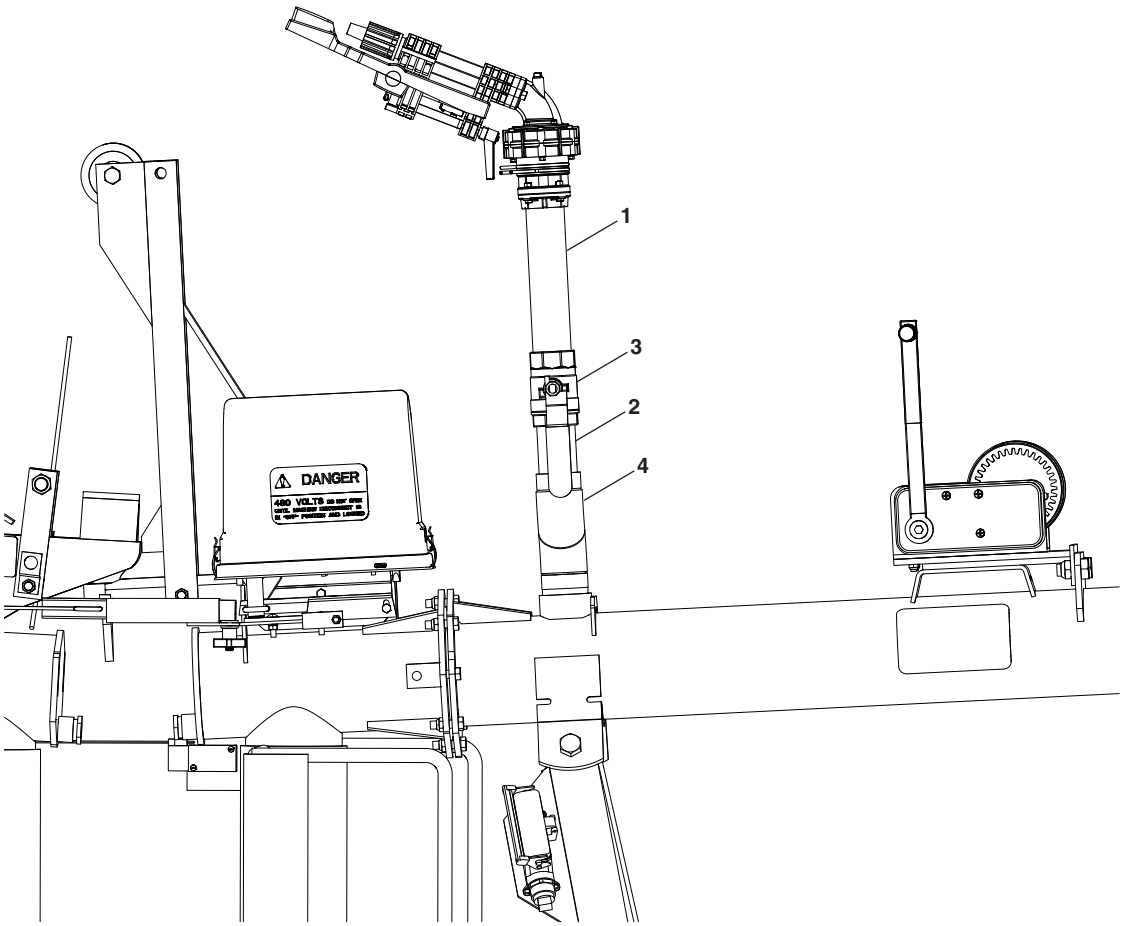
ITEM	DESCRIPTION	PART #
1	Alignment Arm Assm. - Outer	1704236
2	Alignment Arm Assm. - Inner	1704231
3	1/2" x 2" Bolt - Square Head	0176072
4	1/2" Threaded Knob - 4-Arm	0998342
5	1/2" Flat Washer	0142025
6	Sealtite Keeper	1700157
7	DropSpan Tower Box Assm.	1815006
8	Straight Link Chain - 8 Links	0323069
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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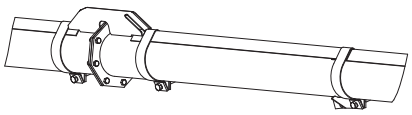
ITEM	DESCRIPTION	PART #
1	2" NPT x 10" Nipple - Galvanized	0211004
2	2" NPT x 2" Nipple - Galvanized	0211008
3	2" Komet End Gun Valve	KA09903
4	S-Fitting Assm.	9363980
5	3/4" Filter Cross Assm.	9360897
6	Elbow Tube to Male Pipe Fitting	0232361
7	1/4" x 1/8" Reducer Fitting	0244024
8	Solenoid Valve w/ 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

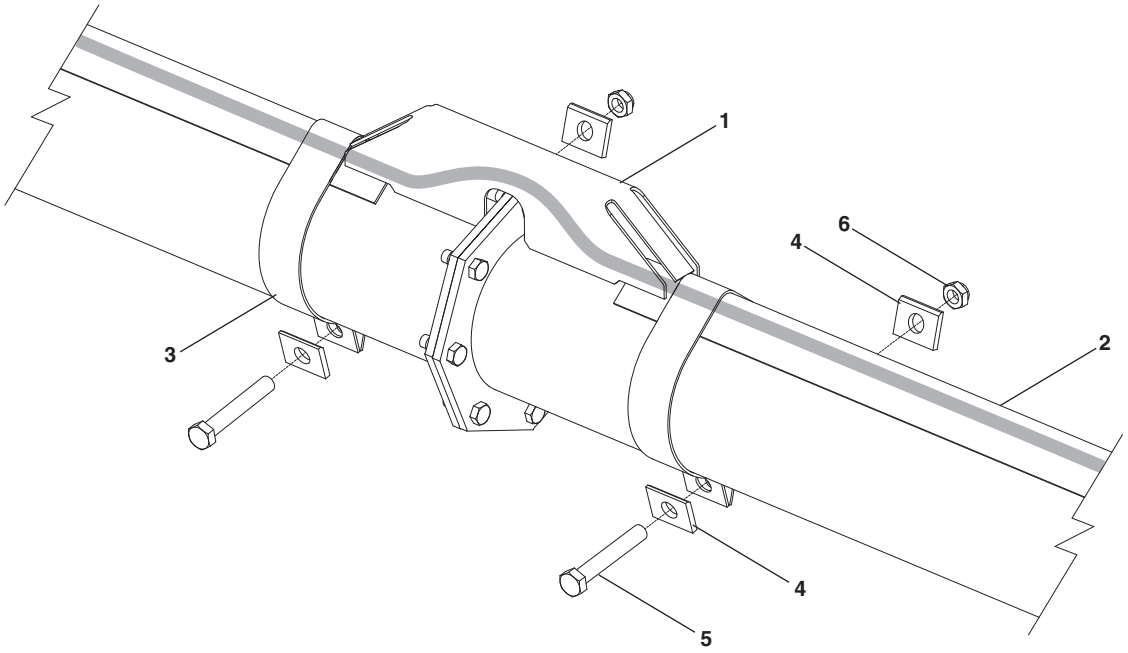
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ITEM	DESCRIPTION	PART #
1	2" NPT x 10" Nipple - Galvanized	0211004
2	2" NPT x 4-1/2" Nipple - Galvanized	0211047
3	2" End Gun Ball Valve - Manual Shutoff	0232046
4	S-Fitting Assm.	9363980

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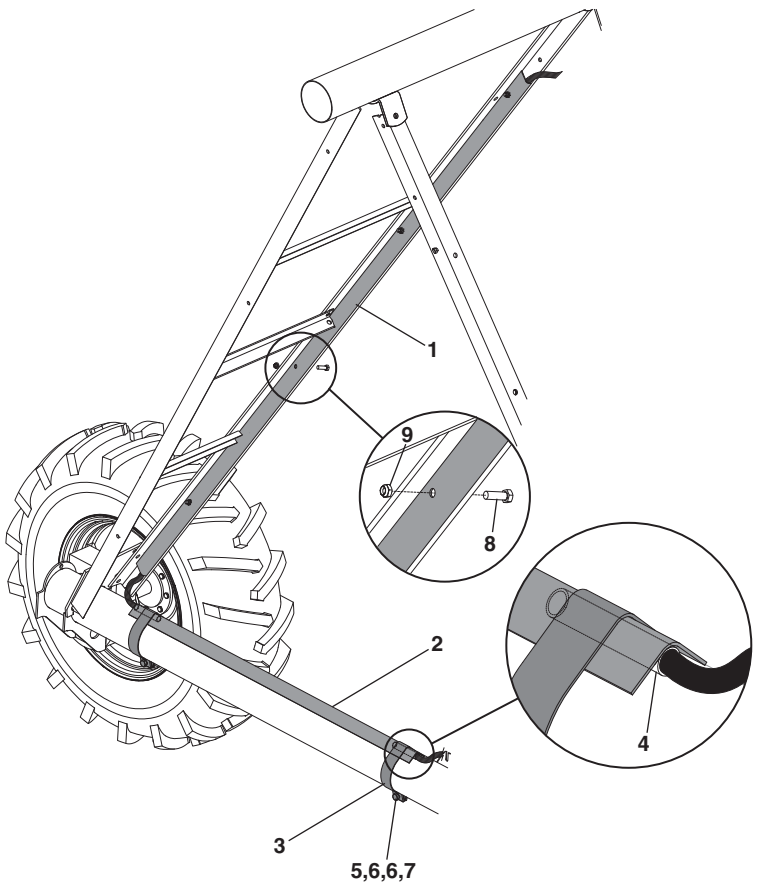




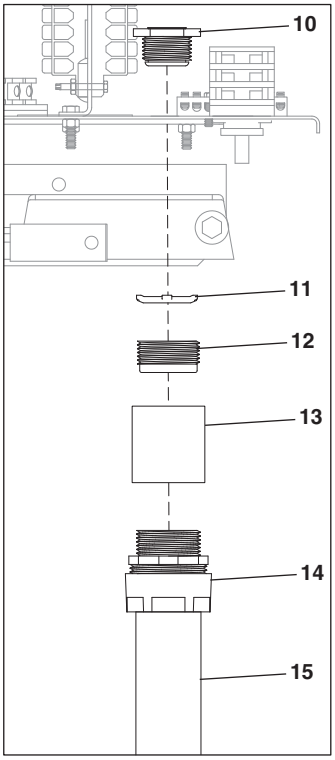
ITEM	DESCRIPTION	PART #
1	Flange Cover Assm.	9364064
2	Flashing - 28.00" Long	9364106
	- 45.00" Long	9363522
	- 120.00" Long	9363526
3	Clamp - 5"	9363674
	- 6"	9364095
	- 6-5/8"	9364062
	- 8-5/8"	9364082
	- 10"	9364083
4	Heavy Washer	9364061*
5	5/8" x 4" Cap Screw - All Thread	0161434*
6	5/8" Lock Nut	0133010*

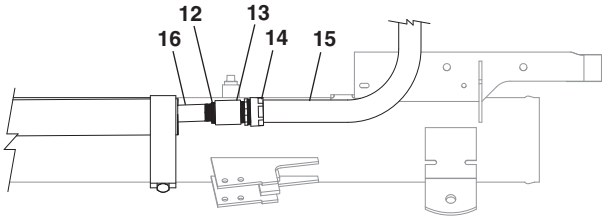
* Cable Theft Deterrent Clamp Kit KA01517
(2 ea. Heavy Washer 9364061)

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NOTE: Use arrangement below for all Tower Boxes, including A.R.A.S., and Control Panel.

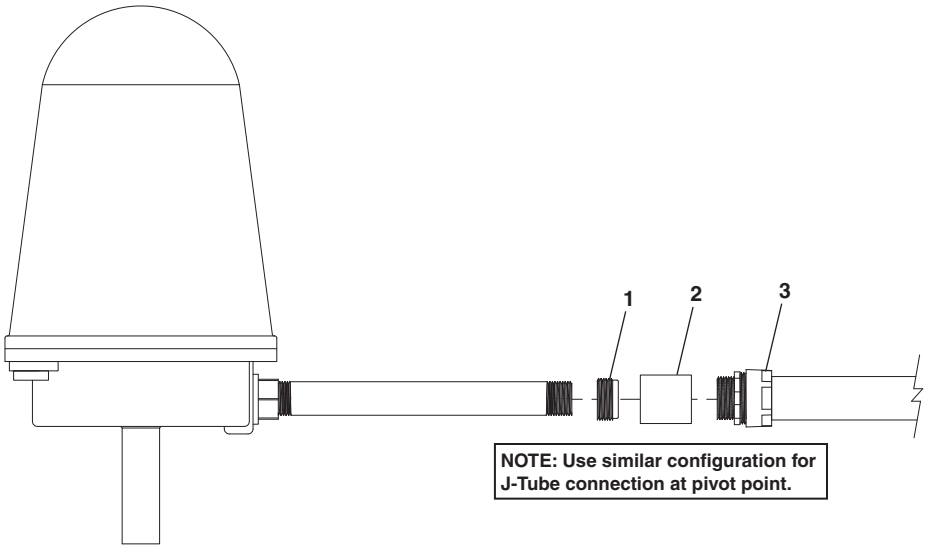


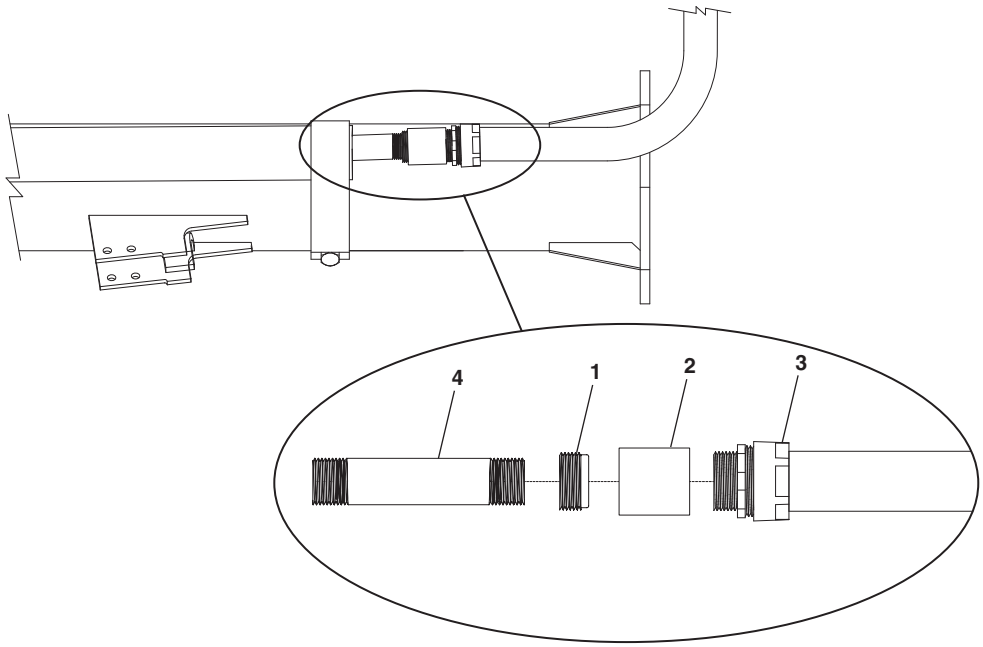


ITEM	DESCRIPTION	PART #
1	Motor Lead Guard	9364085
2	Flashing - Basebeam	9364087
3	Clamp - 6-5/8"	9364062
4	Guard Tube	1704246
5	5/8" x 4" Cap Screw - All Thread	0161434
6	Heavy Washer	9364061
7	5/8" Lock Nut	0133010
8	1/2" x 1" Cap Screw	0161028
9	1/2" Lock Nut	0133005
10	1" Nipple w/ Insert	03E2797*
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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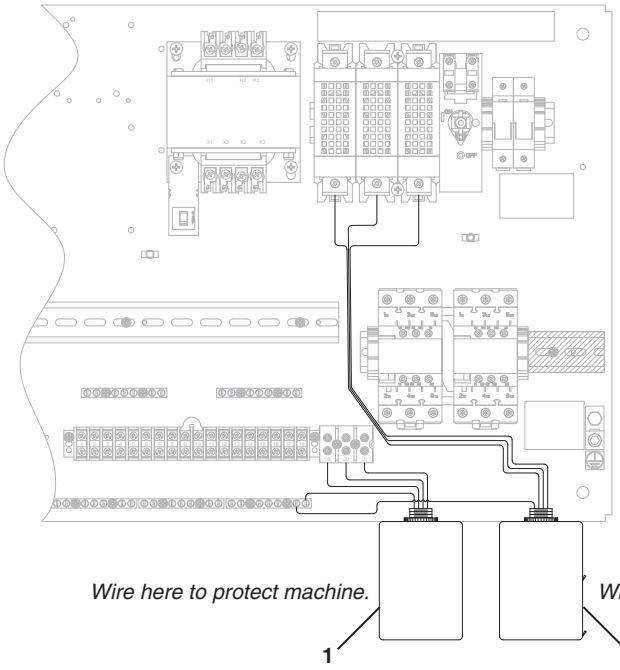


ITEM	DESCRIPTION	PART #
1	1-1/4" x 1" Reducing Bushing	03E2795 *
2	1-1/4" Coupler - Galvanized	0245077 *
3	1-1/4" Liquid Tight Connector	03E3240 *
4	1" x 6" Nipple - Galvanized	0211124 *

*** Cable Armor Conduit to Collector Ring Kit ... KA09884**

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480 Volt - 3 Phase Wiring

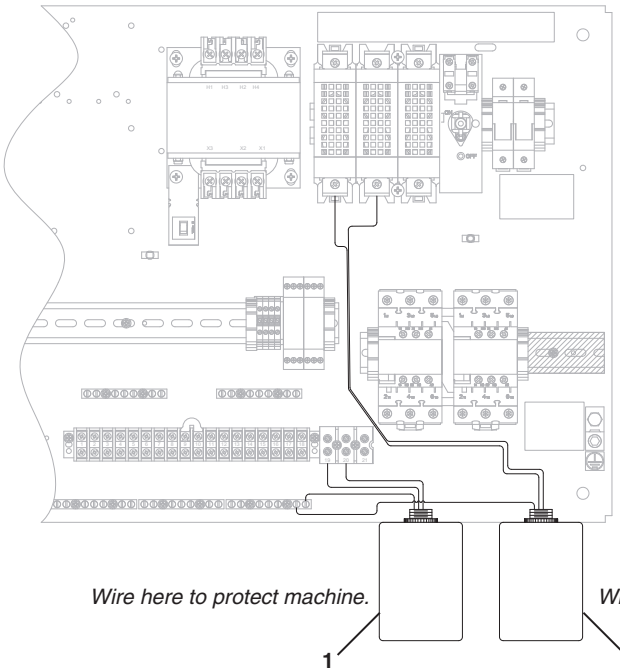


NOTE: Can be used in Classic, Classic+ and ICON Panels. (480VAC panels ONLY)

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

Universal Linear - Effective 1-18

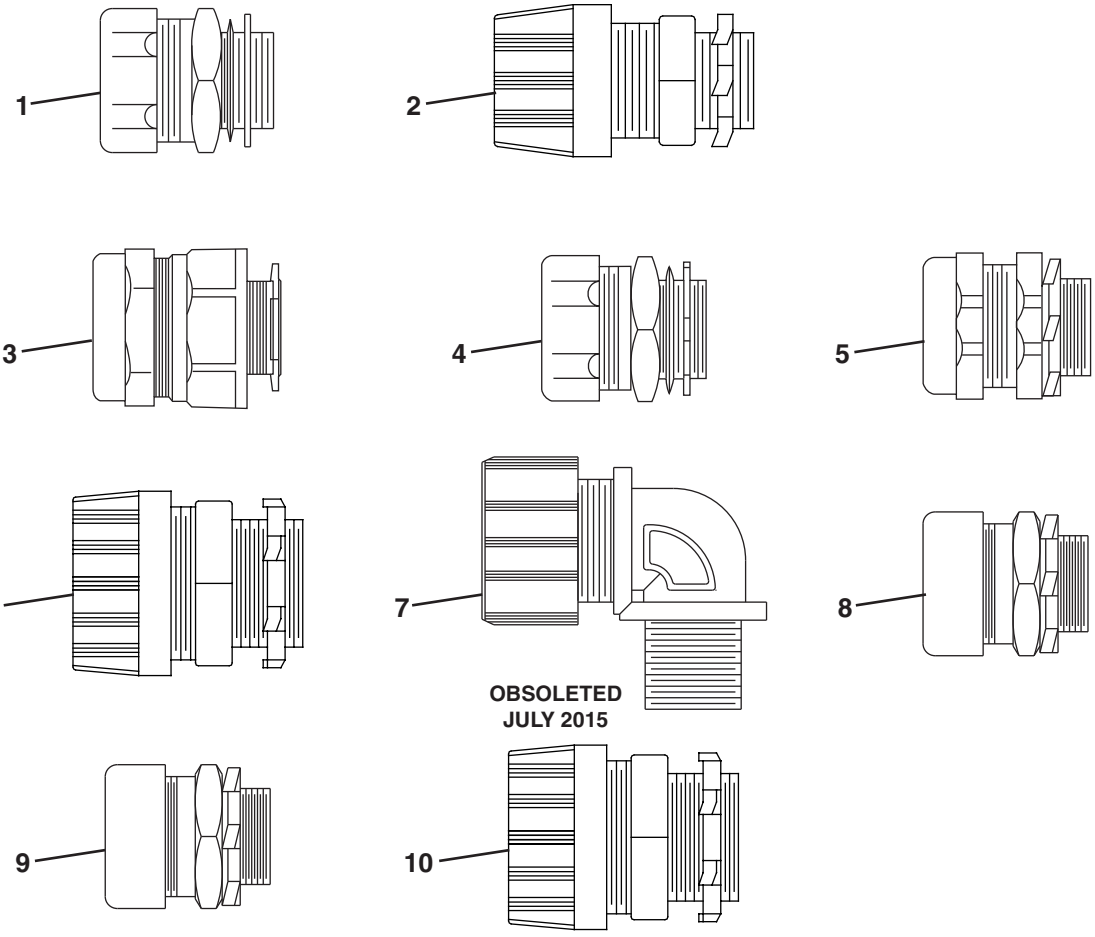
Description	Rev. #	Pg. #
Cable Connectors	09-15	17-3
Electrical Cable	06-15	17-4
Fuses	09-17	17-5
Cable Clamps	10-00	17-6
Grounding Jumper Wire Installation	06-01	17-7
Switch & Arm Assembly	09-10	17-8
Extended Enclosure and Inner Door	10-16	17-9
Universal Back Panel - EFFECTIVE May 99	12-15	17-10
Universal Back Panel - Extended Panel	10-14	17-11
AutoPilot Universal Back Panel - EFFECTIVE July 07	12-14	17-12
AutoPilot Universal Back Panel - Extended Panel	10-14	17-13
Valley ClassicPlus Panel - EFFECTIVE May 99	05-17	17-14
Valley ClassicPlus Panel - Extended Panel	05-17	17-15
Valley ClassicPlus A.R.A.S. Panel - EFFECTIVE May 99	09-17	17-16
Valley ClassicPlus A.R.A.S. Module - Extended Panel	09-17	17-17
Valley ClassicPlus Auxiliary Control - Extended Panel	05-17	17-18
AutoPilot Module - EFFECTIVE July 07	01-14	17-19
AutoPilot Module - Extended Panel	02-15	17-20
AutoPilot Auxiliary Control - Extended Panel	11-13	17-21
Low Voltage Monitor	05-17	17-22
Low Pressure Shutoff	11-13	17-23
Phase Loss w/ Ground Fault	05-17	17-24
End Gun Switch Options - Extended Panel	05-17	17-25
Pump Panel - EFFECTIVE May 99	04-10	17-26
Universal Linear Proximity Switch Box	01-17	17-27
Ground Fault	05-17	17-28
Collector Ring 11, 12 & 14 Conductor	09-01	17-29
Insul 8 Collector Ring 11, 12 & 14 Conductor	08-06	17-30
Resolver/ Sensor Position at Collector Ring	07-05	17-31
Intermediate Tower Box	12-17	17-32
Last Tower Box	12-17	17-33
Slowdown Timer Box	12-17	17-34
Central Pulse Tower Box	12-17	17-35
Booster Pump Box	12-17	17-36
Steering/Safety Box	12-17	17-37
Furrow Guidance Tower Box	12-17	17-38
Furrow Guidance Switch Box	12-17	17-39
Furrow Guidance Swing Around Tower Box	12-17	17-40
Linear Span Tower Box	09-18	17-41
Oscillator Enclosure - Below Ground Guidance	06-15	17-42
Power Pedestal	04-00	17-43

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8UL170018
09-18

Description	Rev. #	Pg. #
Junction Box Pedestal	07-99	17-44
30 Amp Ground Fault Interrupter Box	07-99	17-45
Booster Transformer Tower Box	05-15	17-46
Booster Transformer 45 Amp Package	06-15	17-47

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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

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

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

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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

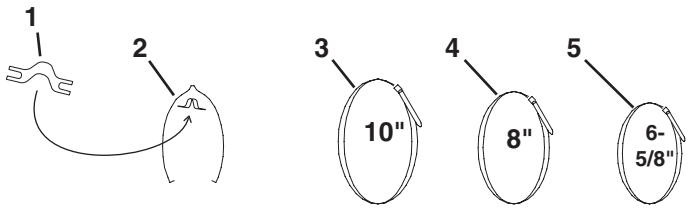
30 A, 600V, 3 Pole Class CC Fuseblock . 03E1735

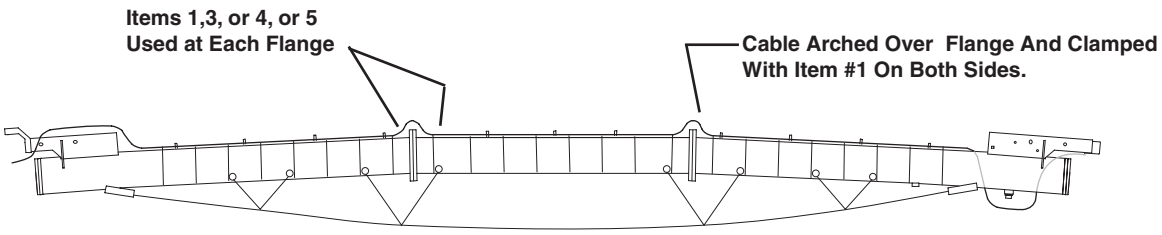
Amperage	Voltage	Fuse	Part#
4A	600V	Dual Element	03E0389
5A	600V	Class CC	03E1678
8A	600V	Class CC	03E1620
20A	600V	Class CC	03E1726
30A	600V	Dual Element	03E1738

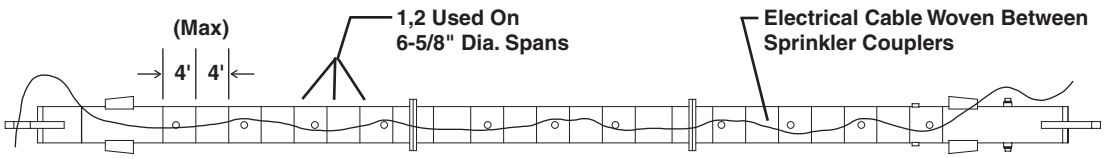
Booster Pump Box Fuse

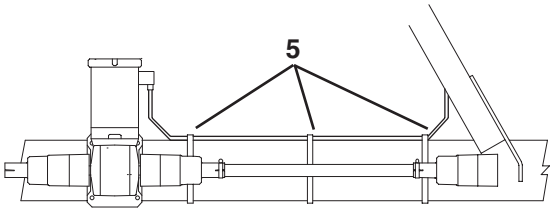
Amperage	Voltage	Fuse	Part#
5.6A	600V	Class CC	03E1734
15A	600V	Dual Element	03E1740

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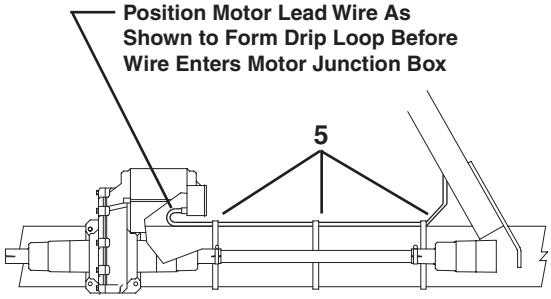








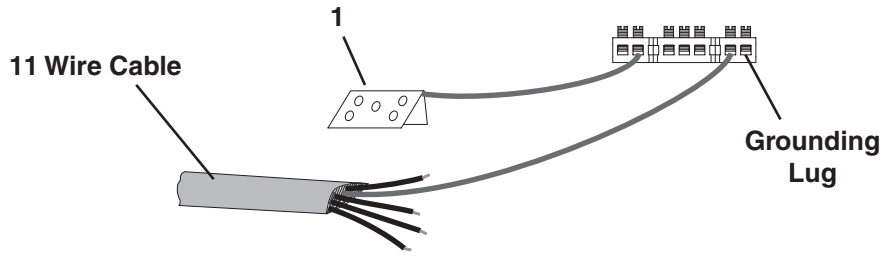
Power Cable Routing at Base Beam For Worm Gear Center Drive Motor

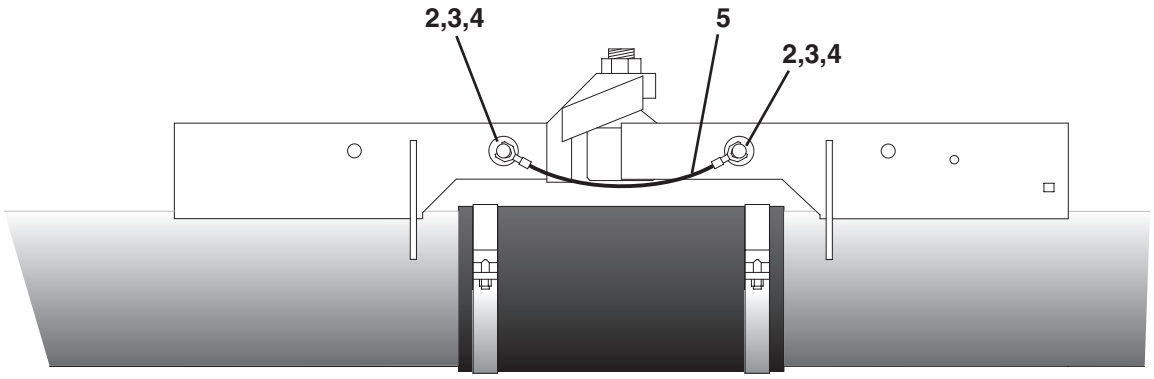


Power Cable Routing at Base Beam For Worm Gear Center Drive Motor

ITEM	DESCRIPTION	PART #
1	**Hose Clamp Clip**	**1750318**
	Used With Cable Clamp	
2	**Cable Clamp**	**0271040**
	6-5/8" System Every 4' Between Flanges	
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	

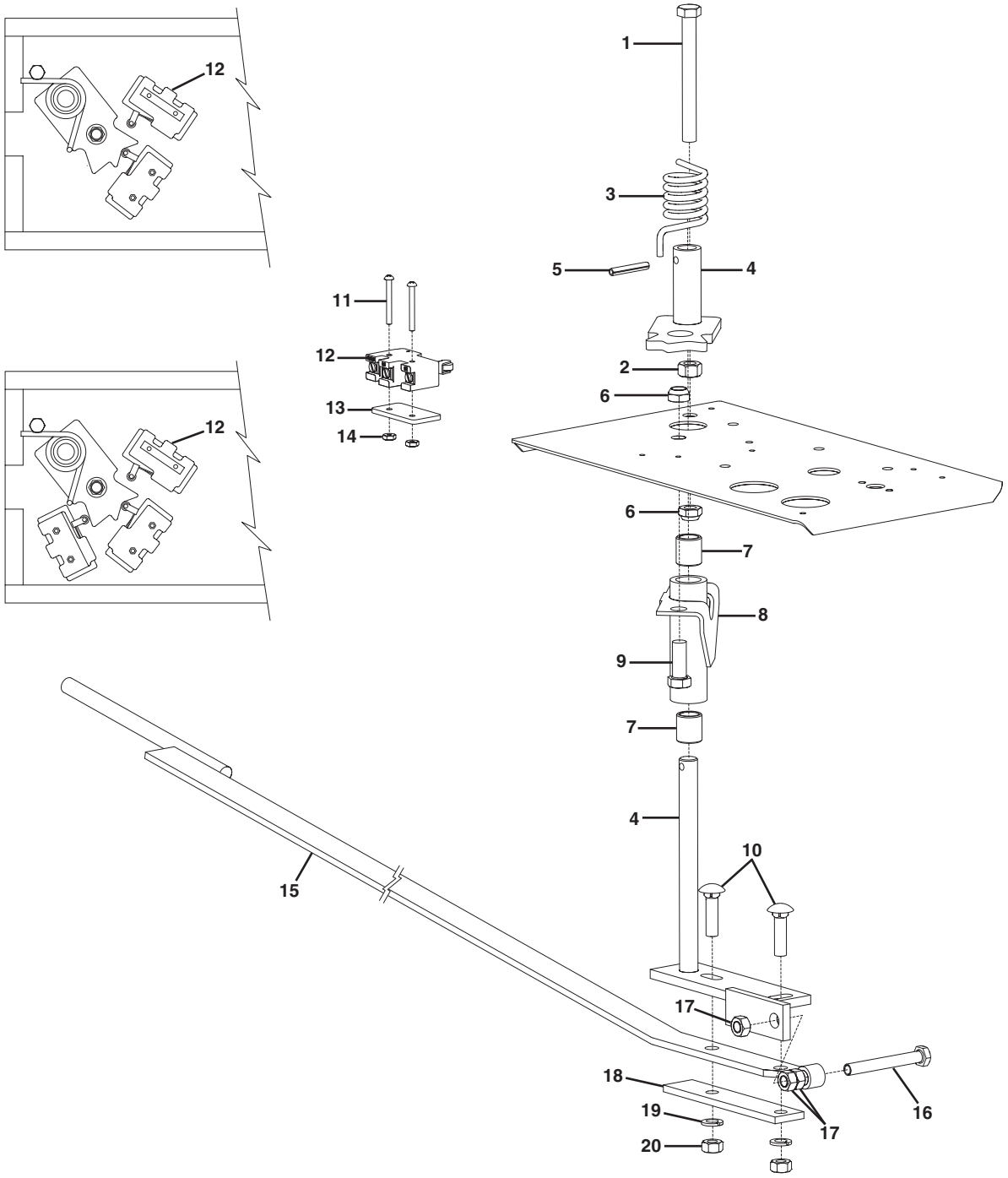
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ITEM	DESCRIPTION	PART #
1	Grounding Lead With Clamp	1814000
2	1/2" x 4" Cap Screw	0161020
3	1/2" Flat Washer	0142025
4	1/2" Hex Nut	0131015
5	Standard Electrical Lead	1811101
	Corner Electrical Lead (42")	1811173

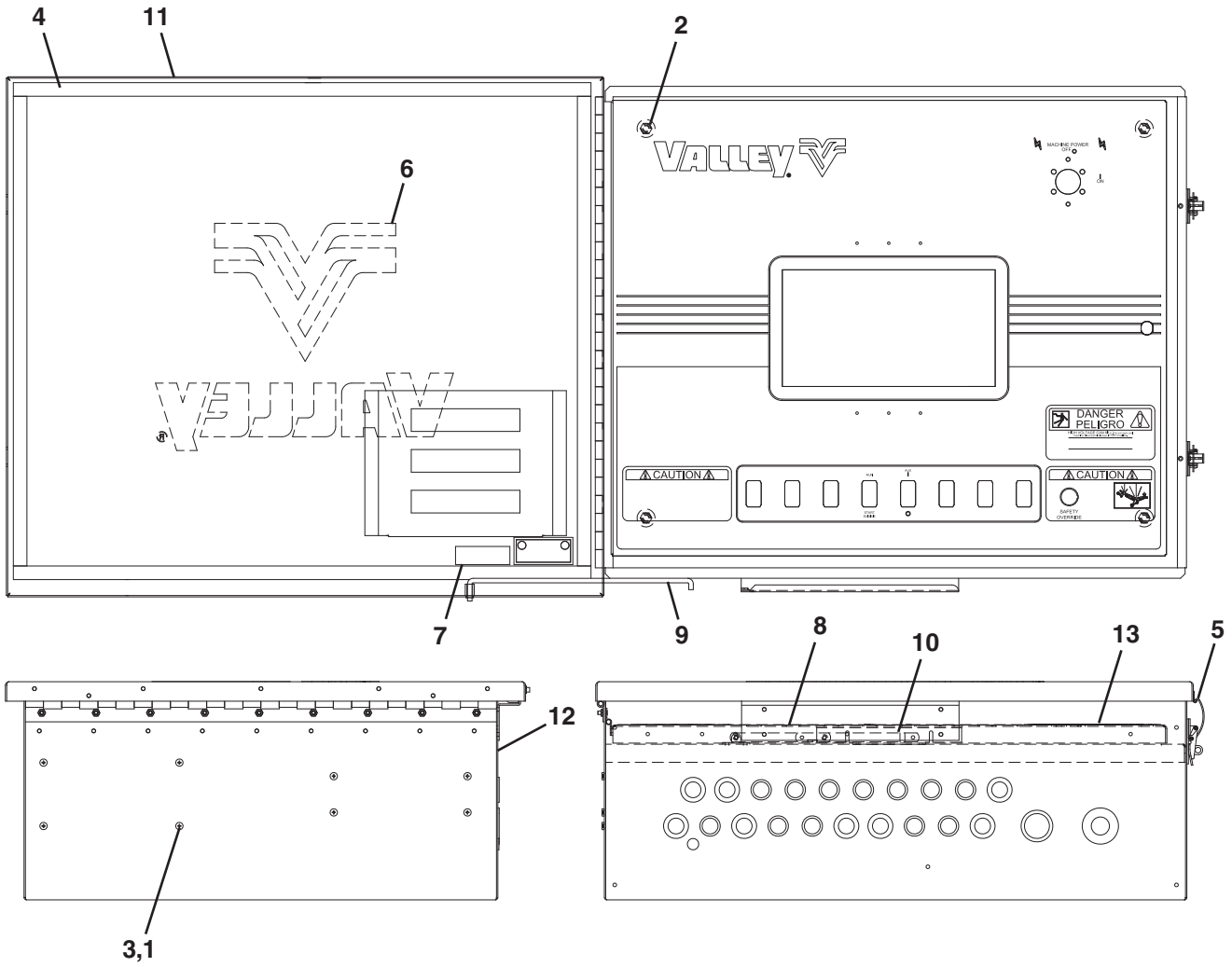
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ITEM	DESCRIPTION	PART #
1	3/8" x 3-1/2" Cap Screw	0161150
2	3/8" Hex Nut	0131018
3	Spring	0181046
4	Switch Pivot and Arm	1701262
5	3/16" x 1-1/4" Roll Pin	0111017
6	3/8" Lock Nut	0133006
7	Trip Bushing, Plastic	1915198
8	Sensor Bearing Assembly	1702051
9	3/8" x 1" Cap Screw	0161045
10	5/16" x 1-1/4" Carriage Bolt	0175013
11	#6 x 1-14" Rt. Hand Machine Screw	0164054

ITEM	DESCRIPTION	PART #
12	Micro Switch	03E0307
13	Insulator Block	1701632
14	#6 Nut	0134027
15	Control Bar	1701295
16	5/16" x 2-1/2" Cap Screw	0163046
17	5/16" - 18 NC Hex Nut	0131079
18	Lower Keeper Plate	1700156
19	5/16" Lock Washer	0141008
20	5/16" Hex Nut	0131019
	Sensor Bearing w/Bushings (incl. items 7 & 8)	1703336

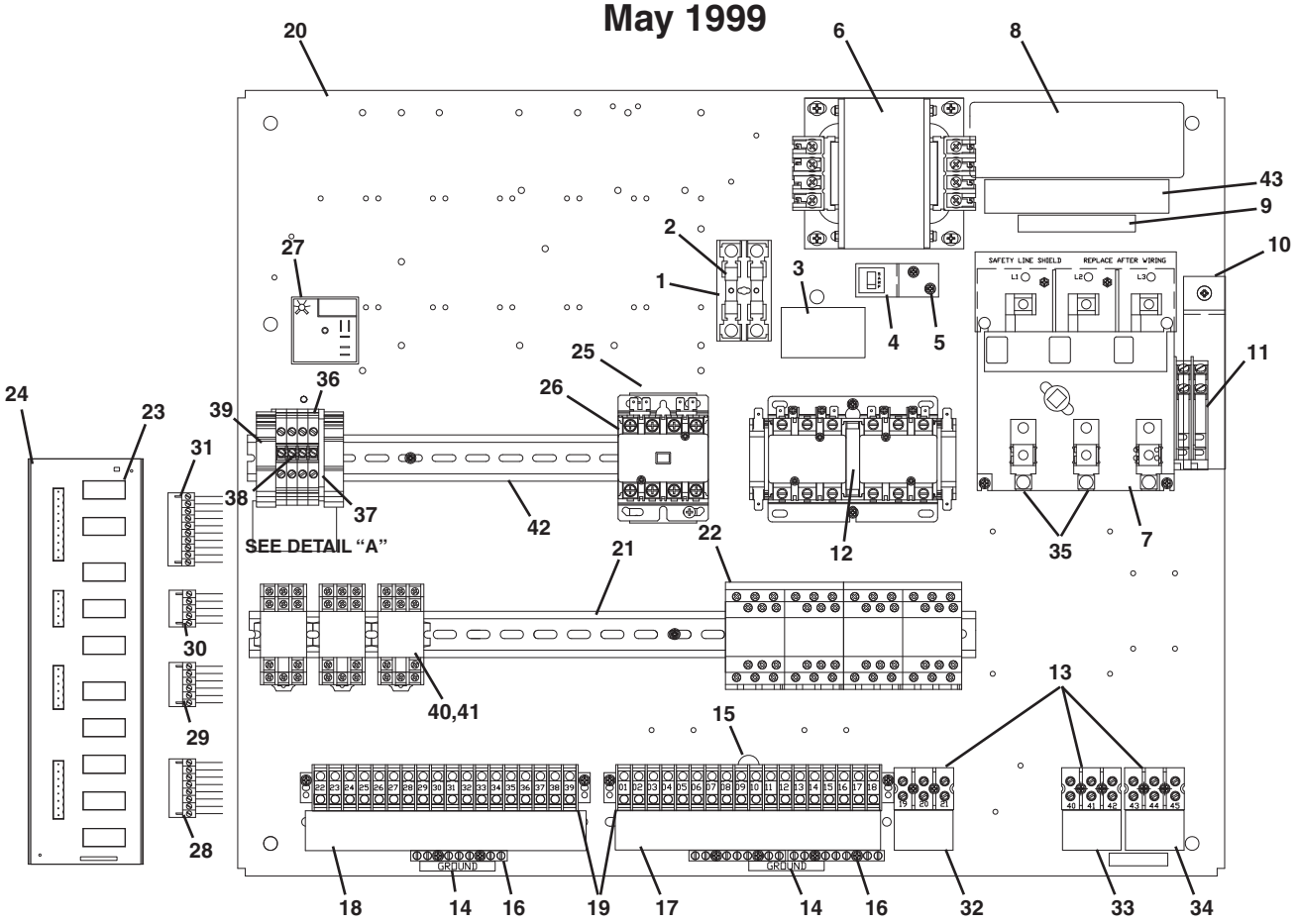
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ITEM	DESCRIPTION	PART #
1	#8 Hex Nut	0134023
2	3/8" x 1/2" Cap Screw	0164208
3	#8 x 3/4" Seal Screw - Phillips Head - Stainless Steel	0164224
4	Outer Door Gasket	0991248
5	Door Latch & Keeper Plate	0994441
6	Decal - Outer Door Valley V	0994450
7	Decal - 3R Enclosure	0996403
8	Door Stop, Inner Door	0996491
9	Door Stop Rod	9310019
10	Door Stop Channel - Stainless Steel	9310086
11	Outer Door & Hinge Assm. - Extended Enclosure	9310406
12	Extended Enclosure Box and Door Rest Assm.	9312005
13	Inner Door Assm. - Extended Enclosure	9312470
	Extended Enclosure Assm	9312474

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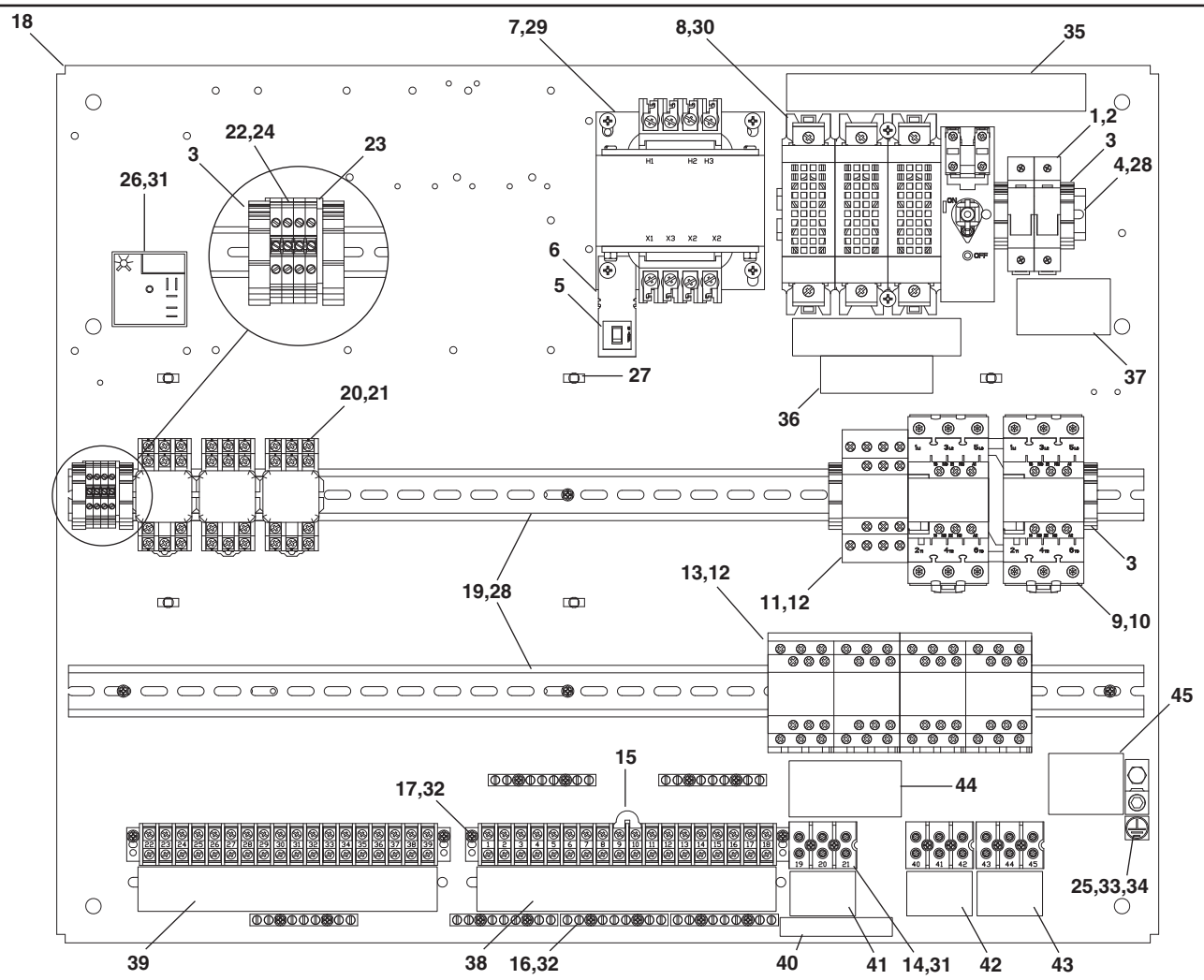
EFFECTIVE May 1999



ITEM	DESCRIPTION	PART #
1	Fuse Block	03E1617
2	5 Amp Fuse	03E1678
3	Decal-5 Amp Fuse Identification	0994455
4	Circuit Protector Reset Switch	03E1590
5	Reset Switch Bracket	OBSOLETED
6	Transformer	03E1540
7	Disconnect Switch Kit	03E2037
8	Decal - Danger, Safety Line Shield	0315928
9	Decal - Use Copper Wire Only	0994836
10	Pump Safety Shield	OBSOLETED
11	Auxiliary Interlock	0314747
12	Reversing Contactor - 40A 3 Pole DP	03E2777
13	Terminal Strip	0315121
14	Decal - Ground	0992925
15	Terminal Block Jumper	03E1644
16	Ground Lug	0315120
17	Decal - Terminal Strip - Pos. 1-18	0995924
18	Decal - Terminal Strip - Pos. 22-39	0995923
19	Terminal Strip	03E1561
20	Back Panel - Extended Box	OBSOLETED
21	Channel - Mounting	9310338
22	Reversing Contactor	03E2333
23	Relay Board Assembly	03E1936
24	Snaptrack	0995899

ITEM	DESCRIPTION	PART #
25	DIN Rail Adaptor Bracket	03E1618
26	4-Pole Contactor	03E1861
27	0.5 - 10 Minute Cube Timer	03E1814
28	Terminal Strip Assembly (w/Wires)	1813734
29	Terminal Strip Assembly (w/Wires)	1813732
30	Terminal Strip Assembly (w/Wires)	1813731
31	Terminal Strip Assembly (w/Wires)	1813733
32	Decal - 3 Terminal - Pos. 19-21	0995244
33	Decal - 3 Terminal - Pos. 40-42	0995920
34	Decal - 3 Terminal - Pos. 43-45	0995921
35	Quick Discon. Term. Tab 45° - OBSOLETED 12 Dec 15	03E1645
36	Terminal Block DIN Rail Mount	03E2994
37	Terminal Block End Cover	03E2995
38	4-Pole Terminal Block Jumper	03E2999
39	End Bracket DIN Rail Mount	03E2996
40	Relay Socket - 3PDT 11 Pin	03E1650
41	Relay - 12V AC	0314936
42	Dinrail Mount - 13.75" Long	9311015
43	Decal - Main Disconnect Fuse - 20A	0995022
	- 30A	0994835
	- 45A	0994858
	COMPLETE Universal Linear Backpanel	OBSOLETED

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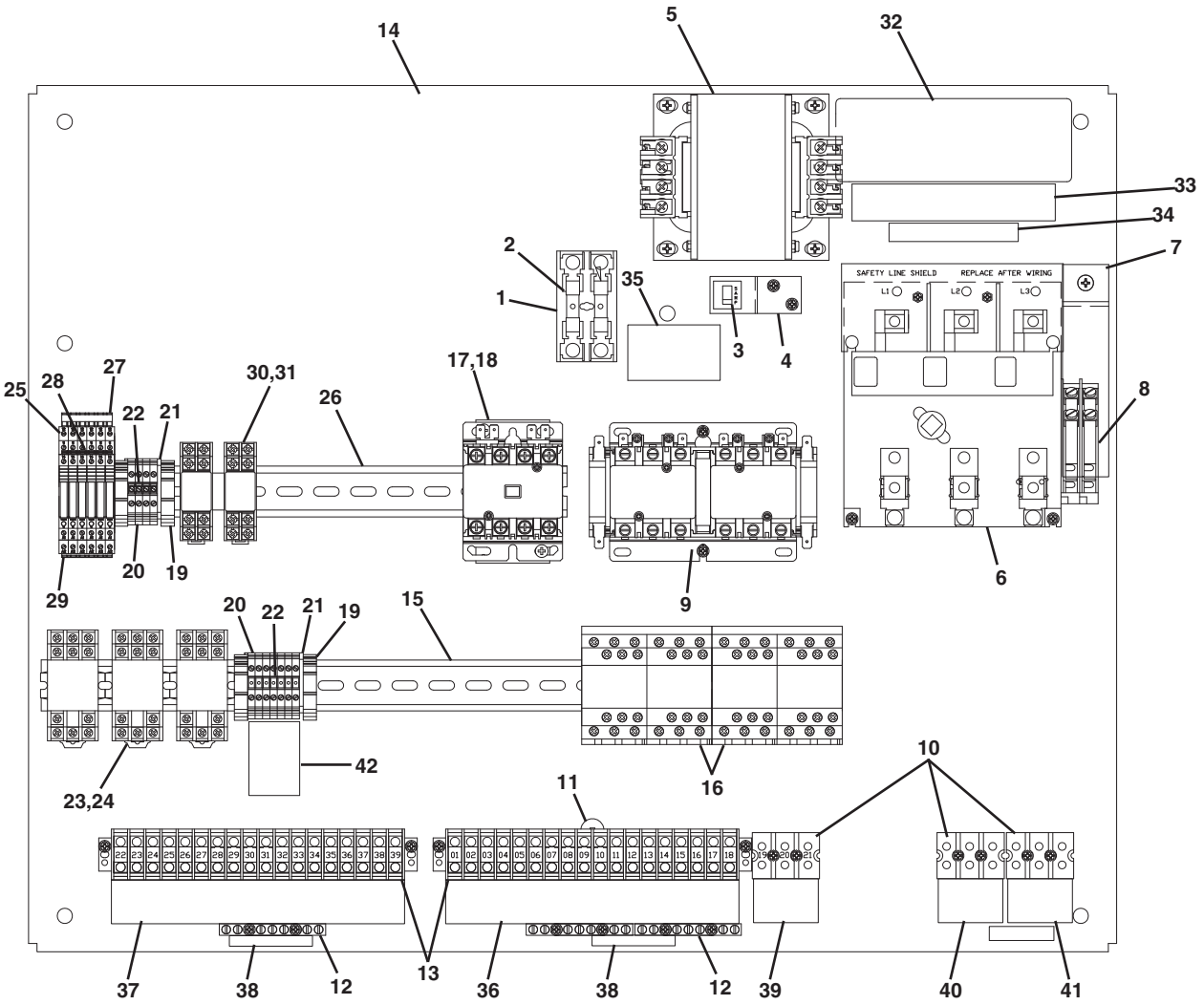


ITEM	DESCRIPTION	PART #
1	Fuse Block	03E3442
2	Fuse - 5 Amp	03E1678
3	Dinrail End Stop	03E2996
4	Dinrail	9312032
5	Circuit Protector Reset Switch	03E1590
6	Reset Switch Bracket	9312044
7	Transformer	03E1540
8	Disconnect Switch Kit - 30 Amp	03E3450
9	Reversing Contactor - 40A 3 Pole	03E3444
10	Suppressor - Fwd/Rev Contactor	03E3464
11	Contactor - 40 Amp 120V Coil 4 Pole	03E3542
12	Suppressor	03E3546
13	Reversing Contactor	03E2333
14	Terminal Strip - 3 Pole	0315121
15	Terminal Block Jumper	03E1644
16	Ground Lug	0315120
17	Terminal Strip - 18 Pole	03E1561
18	Backpanel - Extended	9312049
19	Dinrail Mounting Channel - 28.75" Long	9312052
20	Relay - 3PDT 120V AC	0314936
21	Relay Socket - 3PDT 11 Pin Blade	03E1650
22	DIN Rail Terminal Strip	03E2994
23	DIN Rail Terminal End Cover	03E2995
24	Terminal Jumper - 4 Pole	03E2999
25	Ground Lug - 1 Pole	03E3455

ITEM	DESCRIPTION	PART #
26	Timer - .5-10 Min.	03E1814
27	Wire Tie Holders	0994494
28	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
29	#12 x 1/2" Sheet Metal Screw	0164231
30	1/4" x 3/4" Self Tapping Screw	0164240
31	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
32	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
33	1/4" x 1/2" Cap Screw	0161059
34	1/4" Lock Nut	0133008
35	Decal - Danger Main Power	0998440
36	Decal - Main Disconnect Torque	0998460
37	Decal - Fuseholder	0994455
38	Decal - Terminal Strip ID - Pos. 1-18	0995924
39	Decal - Terminal Strip ID - Pos. 22-39	0995923
40	Decal - Ground	0992925
41	Decal - 3 Terminal - Pos. 19-21	0995244
42	Decal - 3 Terminal - Pos. 40-42	0995920
43	Decal - 3 Terminal - Pos. 43-45	0995921
44	Decal - Terminal Block Torque	0998450
45	Decal - Power Distribution Term. & Ground Lug	0998470
	or	
	Decal - Ground Lug Torque	0998563
	Universal Linear Backpanel Assm.	9312066

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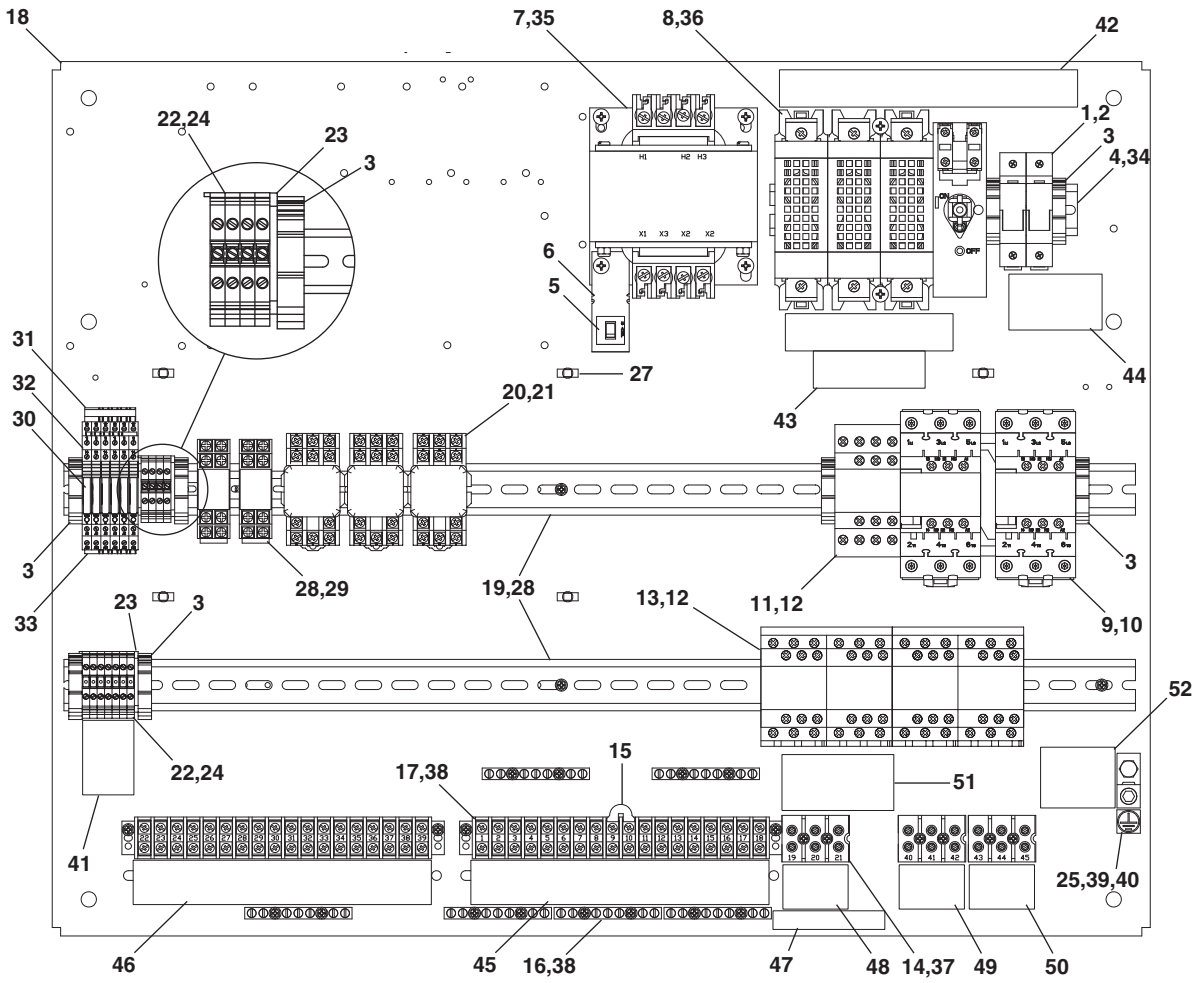
Functional Area	Assembly / Part	Rev# 12-14
Electrical	AutoPilot Universal Back Panel	



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	0315121
11	Terminal Block Jumper	03E1644
12	Ground Lug	0315120
13	Terminal Strip	03E1561
14	Back Panel - Extended Box	OBSOLETED
15	Mounting Channel	9310338
16	Reversing Contactor	03E2333
17	DIN Rail Adaptor Bracket	03E1618
18	4-Pole Contactor	03E1861
19	DIN Rail End Stop	03E2996
20	DIN Rail Terminal Strip	03E2994
21	DIN Rail Terminal End Cover	03E2995
22	Terminal Jumper - 4 Pole	03E2999
23	Relay Socket - 3PDT 11 Pin	03E1650

ITEM	DESCRIPTION	PART #
24	Relay - 120VAC	0314936
25	Relay w/Suppression	03E2881
26	DIN Rail - 13.75" Long	9311015
27	Jumper - Blue	03E2882
28	Jumper - Red	03E2883
29	Jumper - Grey	03E2884
30	Relay - 12VDC	03E2564
31	Relay Socket	03E2107
32	Decal - Danger, Safety Line Shield	0315928
33	Decal - Main Disconnect Fuse - 20A	0995022
	- 30A	0994835
	- 45A	0994858
34	Decal - Use Copper Wire Only	0994836
35	Decal - Fuseholder	0994455
36	Decal - Terminal Strip ID - Pos. 1-18	0995924
37	Decal - Terminal Strip ID - Pos. 22-39	0995923
38	Decal - Ground	0992925
39	Decal - 3 Terminal - Pos. 19-21	0995244
40	Decal - 3 Terminal - Pos. 40-42	0995920
41	Decal - 3 Terminal - Pos. 43-45	0995921
42	Decal - 7 Terminal Block	0997138
	COMPLETE Auto Universal Linear Backpanel	OBSOLETED

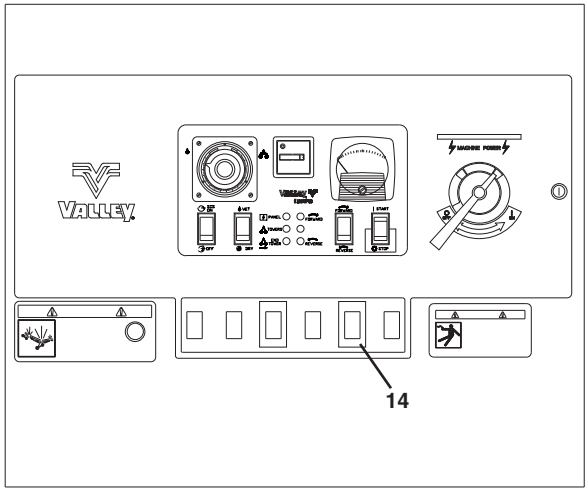
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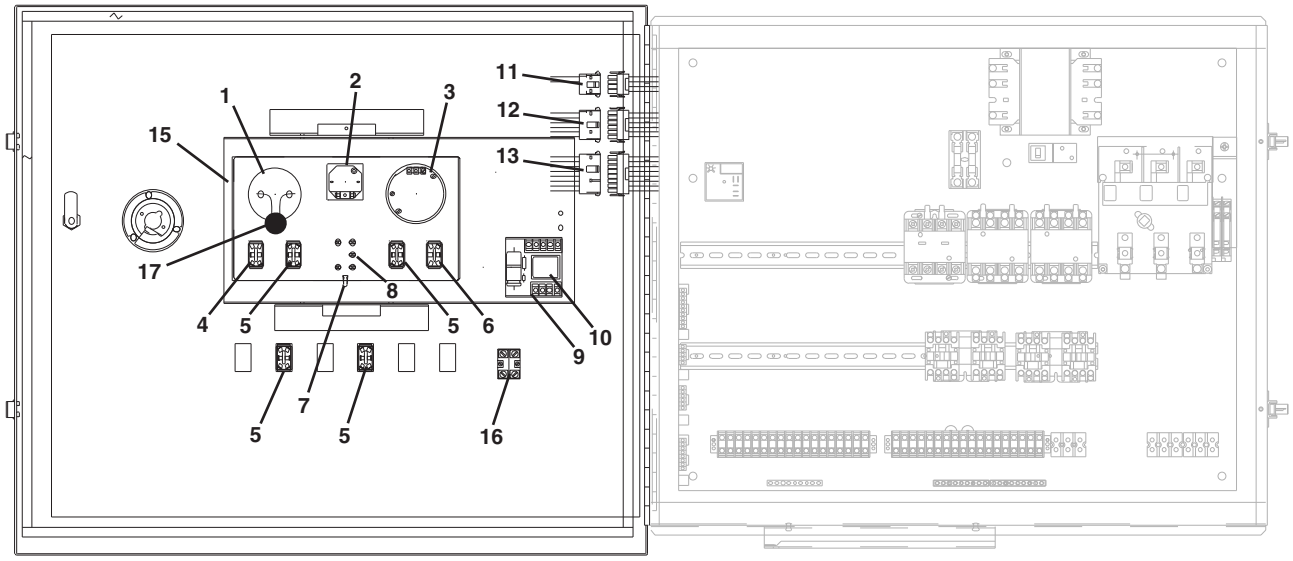
ITEM	DESCRIPTION	PART #
1	Fuse Block	03E3442
2	Fuse - 5 Amp	03E1678
3	Dinrail End Stop	03E2996
4	Dinrail	9312032
5	Circuit Protector Reset Switch	03E1590
6	Reset Switch Bracket	9312044
7	Transformer	03E1540
8	Disconnect Switch Kit - 30 Amp	03E3450
9	Reversing Contactor - 40A 3 Pole	03E3444
10	Suppressor - Fwd/Rev Contactor	03E3464
11	Contactor - 40 Amp 120V Coil 4 Pole	03E3542
12	Suppressor	03E3546
13	Reversing Contactor	03E2333
14	Terminal Strip - 3 Pole	0315121
15	Terminal Block Jumper	03E1644
16	Ground Lug	0315120
17	Terminal Strip - 18 Pole	03E1561
18	Backpanel - Extended	9312049
19	Dinrail Mounting Channel - 28.75" Long	9312052
20	Relay - 3PDT 120V AC	0314936
21	Relay Socket - 3PDT 11 Pin Blade	03E1650
22	DIN Rail Terminal Strip	03E2994
23	DIN Rail Terminal End Cover	03E2995
24	Terminal Jumper - 4 Pole	03E2999
25	Ground Lug - 1 Pole	03E3455
26	Timer - .5-10 Min.	03E1814
27	Wire Tie Holders	0994494
28	Relay - DPDT 10 Amp 12VDC	03E2564

ITEM	DESCRIPTION	PART #
29	Relay Socket - 2 Pole 10 Amp 300V	03E2107
30	Relay w/Suppression - 120VAC	03E2881
31	Jumper (Blue)	03E2882
32	Jumper (Red)	03E2883
33	Jumper (Grey)	03E2884
34	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
35	#12 x 1/2" Sheet Metal Screw	0164231
36	1/4" x 3/4" Self Tapping Screw	0164240
37	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
38	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
39	1/4" x 1/2" Cap Screw	0161059
40	1/4" Lock Nut	0133008
41	Decal - 7 Position Terminal Block	0997138
42	Decal - Danger Main Power	0998440
43	Decal - Main Disconnect Torque	0998460
44	Decal - Fuseholder	0994455
45	Decal - Terminal Strip ID - Pos. 1-18	0995924
46	Decal - Terminal Strip ID - Pos. 22-39	0995923
47	Decal - Ground	0992925
48	Decal - 3 Terminal - Pos. 19-21	0995244
49	Decal - 3 Terminal - Pos. 40-42	0995920
50	Decal - 3 Terminal - Pos. 43-45	0995921
51	Decal - Terminal Block Torque	0998450
52	Decal - Power Distribution Term. & Ground Lug	0998470
	or Decal - Ground Lug Torque	0998563
	Universal Linear AutoPilot Backpanel Assm	9312073

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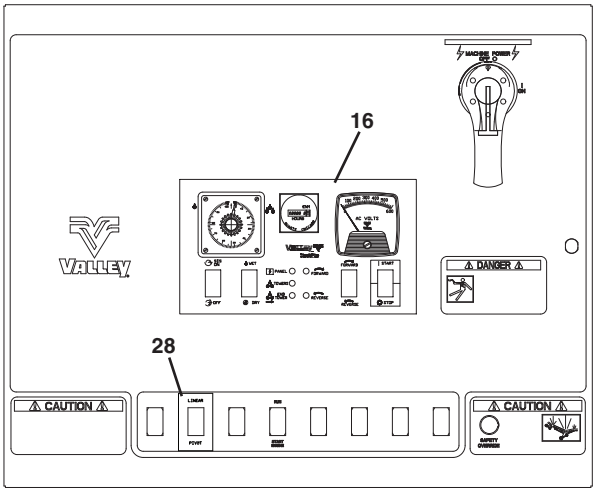
EFFECTIVE
May 1999

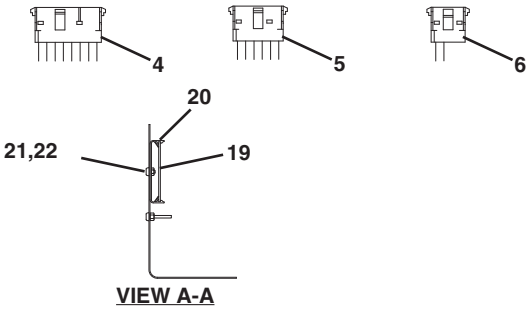


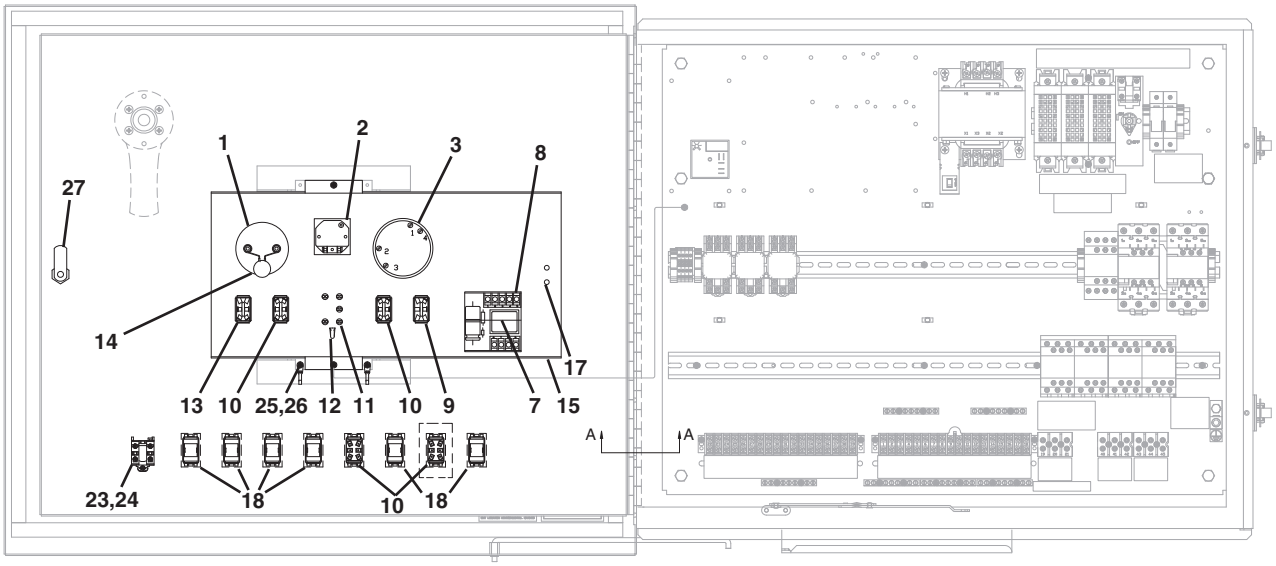
ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
2	Hourmeter	03E1562
3	Percent Timer	03E2035
4	Rocker Switch Progressive Circuit D.P. 15A	03E1723
5	Rocker Switch 6 Tab D.P.D.T. 15A	03E1722
6	Rocker Switch 2 Tab S.P.D.T.	03E1721
7	Connector	0315545
8	Indicator Lights (5 Required)	0314595
9	Relay	0315559
	3 Second Delay	0315560
	Snap Track	0991422
10	Cable Tie	0314834
11	4 Circuit Cap Assembly	1813684
12	6 Circuit Cap Assembly	1813682
13	8 Circuit Cap Assembly	1813683
14	Decal - Linear/Pivot - OBSOLETED Apr 2017	0994576
15	Standard Module Assembly	9312075
16	Switch Pushbutton D.P.D.T.(Safety Override)	03E2224
	Contact Block Only (Service Part)	03E2222
17	Transient Voltage Suppressor 575V	03E2069

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FRONT VIEW OF MODULE INSTALLED





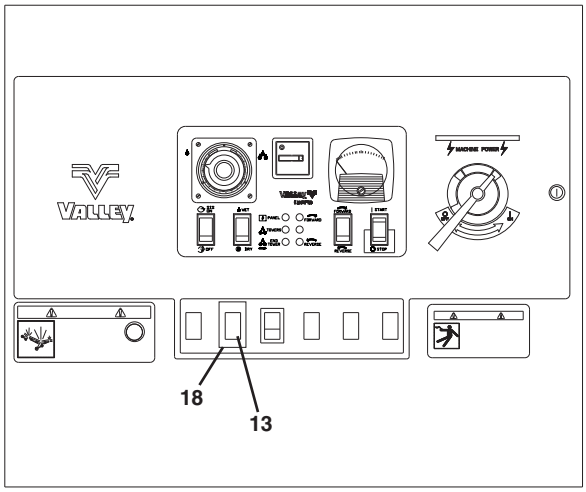


ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
	Vinyl Cap	0314754
2	Hourmeter	03E1562
3	Solid State Percentage Timer - 120 Sec.	03E1938
4	8 Circuit Cap Assembly	1813144
5	6 Circuit Cap Assembly	1813143
6	4 Circuit Cap Assembly	1813142
7	Cable Tie - 11" Long	0314834
8	Relay	0315559
	3 Second Delay	0315560
	Snap Track	0991422
	#6-32 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

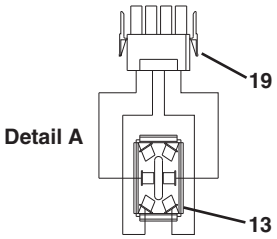
ITEM	DESCRIPTION	PART #
14	Transient Voltage Suppressor 550V	03E2069
15	Mechanical Module Mount Bracket	9310001
16	Mechanical Module Bracket Overlay	03E1567
17	Wire Tie	03E1605
18	Dummy Rocker Switch Mount	03E1719
19	Steering Relay PCB Assm	03E1936
20	Snap Track Mounting Channel - 12" Long	0995899
21	#8x x 5/16" Bolt w/Seal	0164223
22	#8 x 32 UNC Hex Nut	0134023
23	Push Button	03E2438
24	Push Button Base	03E2439
25	Wire Tie - Screw Mounted	0314793
26	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
27	Cabinet Lock	0991370
28	Decal - Swing Around Linear - OBSOLETED Apr 17	0994576
	ClassicPlus Module Assembly	9312074
	Can be modified for a 15, 30 or 60 second range.	

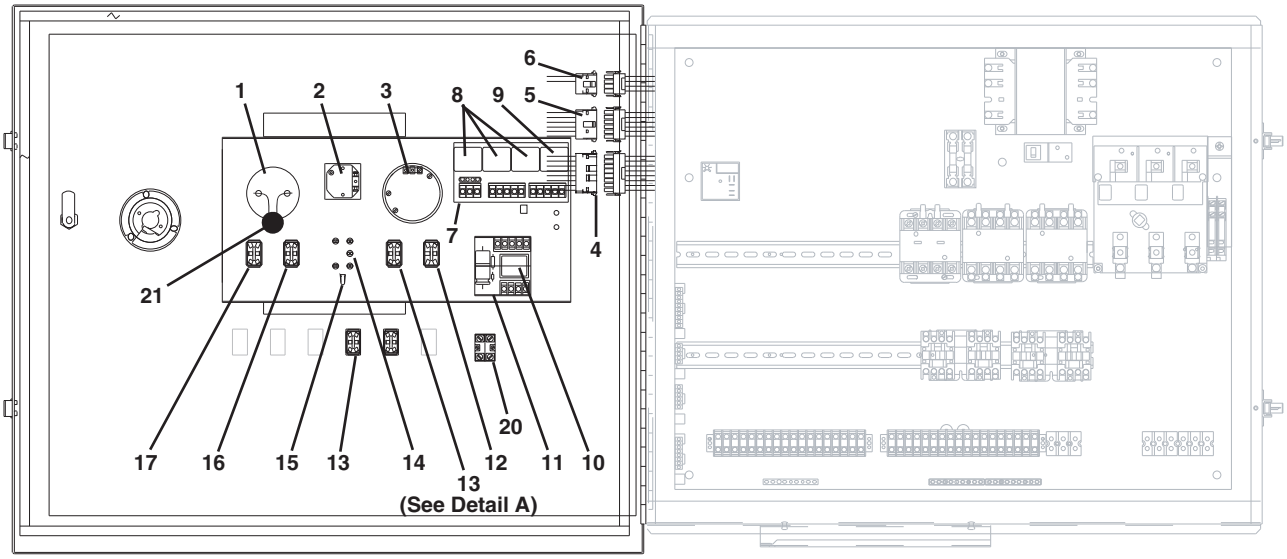
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May 1999



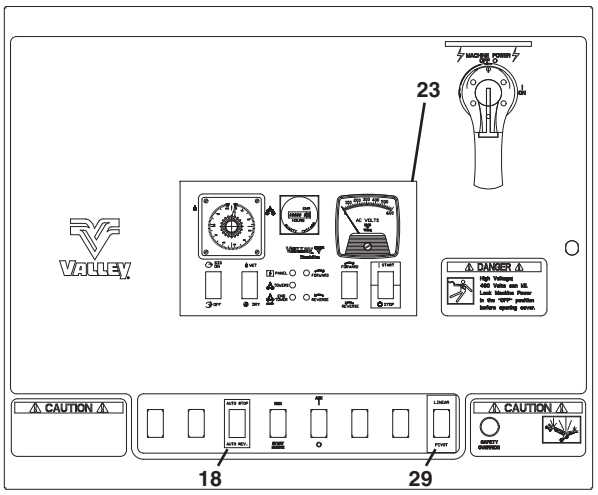


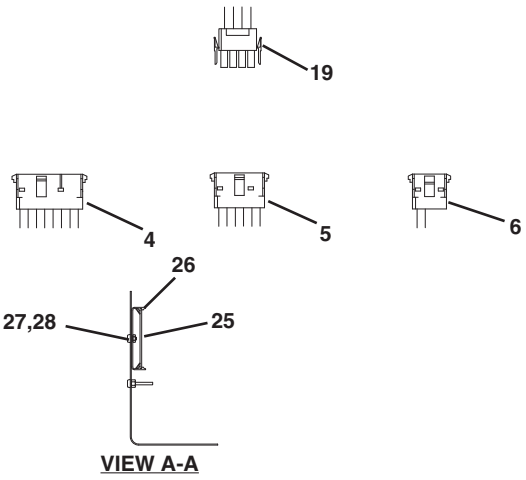
ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
2	Hourmeter	03E1562
3	Percent Timer	03E2035
4	8 Circuit Harness	1814468
5	6 Circuit Cap Assembly	1813143
6	4 Circuit Cap Assembly	1813142
7	Auto Reverse PCB	03E1595
	Snap Track	0991587
8	Relay	0314936
	Relay Hold Down Spring	03E1641
9	Relay	0314815
	Relay Hold Down Spring	03E1640
10	Cable Tie	0314834
11	Relay	0315559
	3 Second Delay	0315560
	Snap Track	0991422

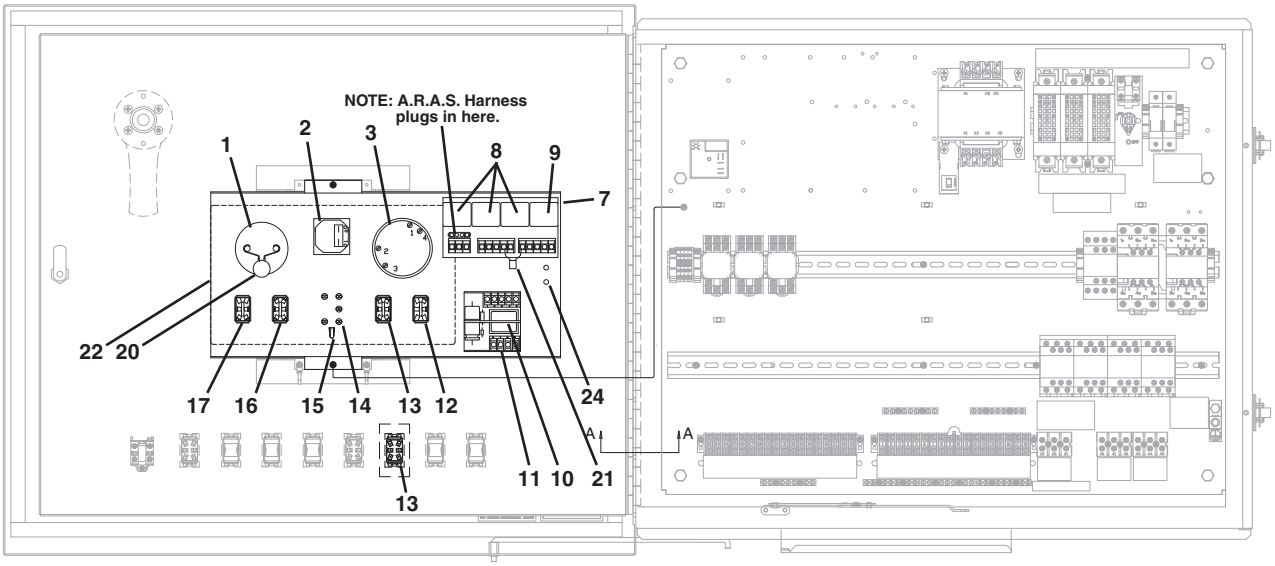
ITEM	DESCRIPTION	PART #
12	Rocker Switch 2 Tab S.P.D.T. 15A	03E1721
13	Rocker Switch 6 Tab D.P.D.T. 15A	03E1722
14	Indicator Lights	0314595
15	Connector	0315545
16	Rocker Switch 3 Tab S.P.D.T. 15A	03E1720
17	Rocker Switch Progressive Circuit	03E1723
18	Decal - A.R.A.S.	0999569
19	A.R.A.S. Harness	1813227
20	Switch Pushbutton D.P.D.T.(Safety Override)	03E2224
	Contact Block Only (Service Part)	03E2222
21	Transient Voltage Suppressor 575V	03E2069
	COMPLETE Mechanical A.R.A.S. Module Assy.	9312036

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FRONT VIEW OF MODULE INSTALLED





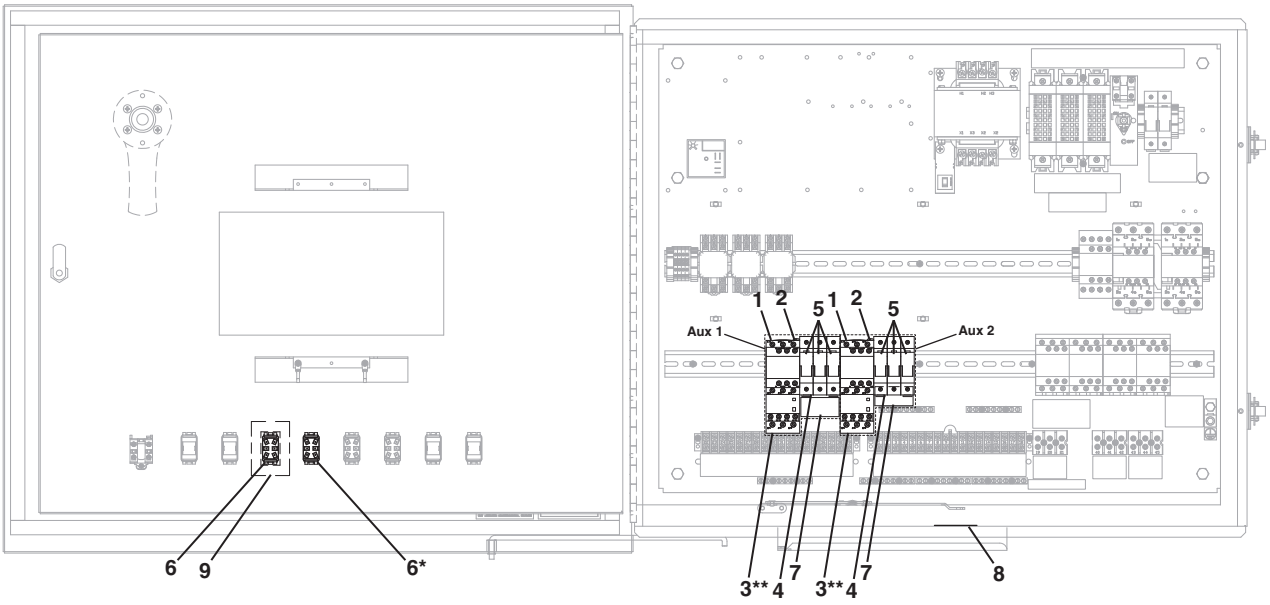


ITEM	DESCRIPTION	PART #
1	Voltmeter	03E2193
2	Hourmeter	03E1562
3	Solid State Percentage Timer - 120 Sec.	03E1938
4	8 Circuit Harness	1814468
5	6 Circuit Cap Assembly	1813143
6	4 Circuit Cap Assembly	1813142
7	Auto Reverse PCB	03E1595
	Snap Track	0991587
	#6-32 x 1/4" Machine Screw - Phillips Head	0164207
	#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
12	Rocker Switch 2 Tab S.P.D.T. 15A	03E1721

ITEM	DESCRIPTION	PART #
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
25	Steering Relay PCB	03E1936
26	Snaptrack Mounting Channel - 12" Long	0995899
27	#8 x 5/16" Bolt w/Seal	0164223
28	#8 x 32 UNC Hex Nut	0134023
29	Decal - Swing Around Linear - OBSOLETED Apr 17	0994576

ClassicPlus A.R.A.S. Module Assy. 9312075
NOTE: Can be modified for a 15, 30, 60, or 120 second range.

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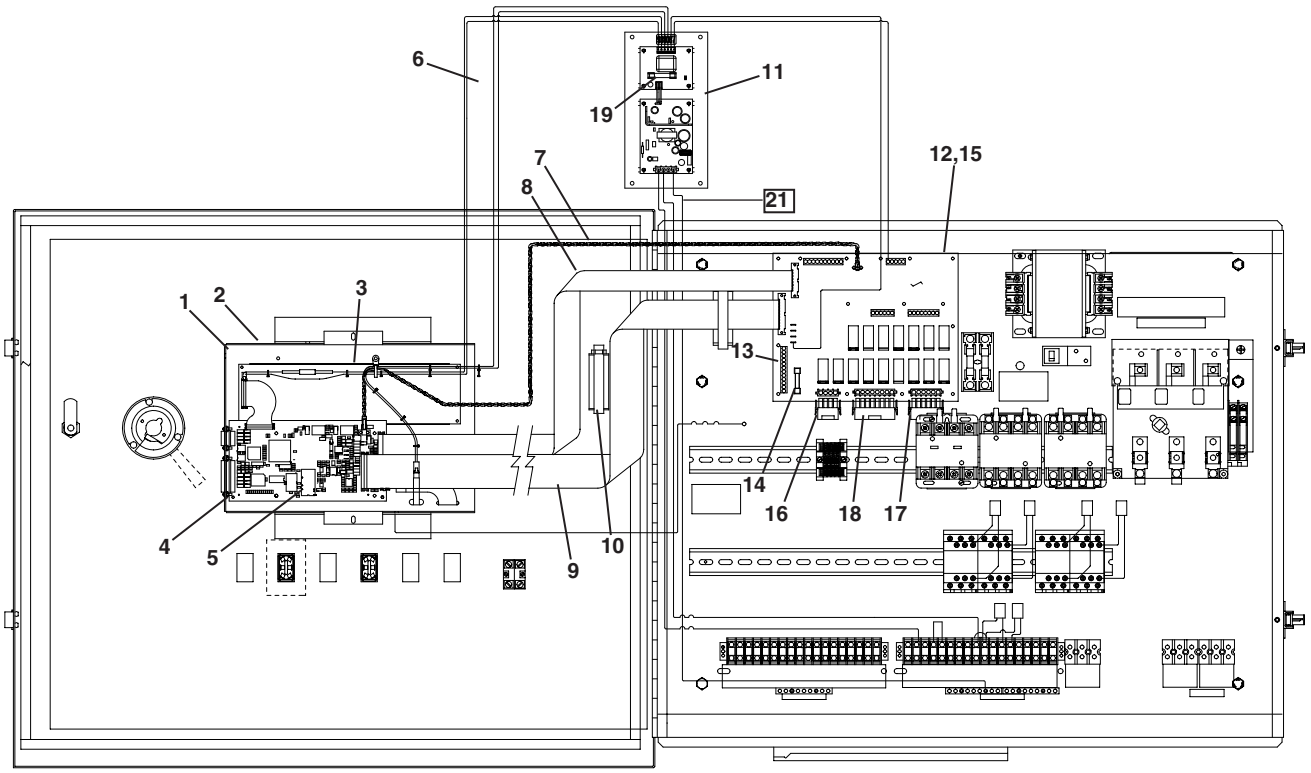
ITEM	DESCRIPTION	PART #
1	Contactor - 3 Pole 12A	03E2325
2	Suppressor	03E3546
3	Overload Relay - 0.63-1.00A	03E2324
	- 1.00-1.60A	03E2323
	- 1.60-2.50A	03E2322
	- 2.50-4.00A	03E2321
	- 4.00-6.00A	03E2320
4	Fuse Block - 3 Pole	03E3443
5	Fuse - 8 Amp 600V Class CC	03E1620
6	Rocker Switch - 6 Tab D.P.D.T.	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)	

* NOTE: Auxiliary 1

** NOTE: Choose the Overload Relay to meet your requirements.

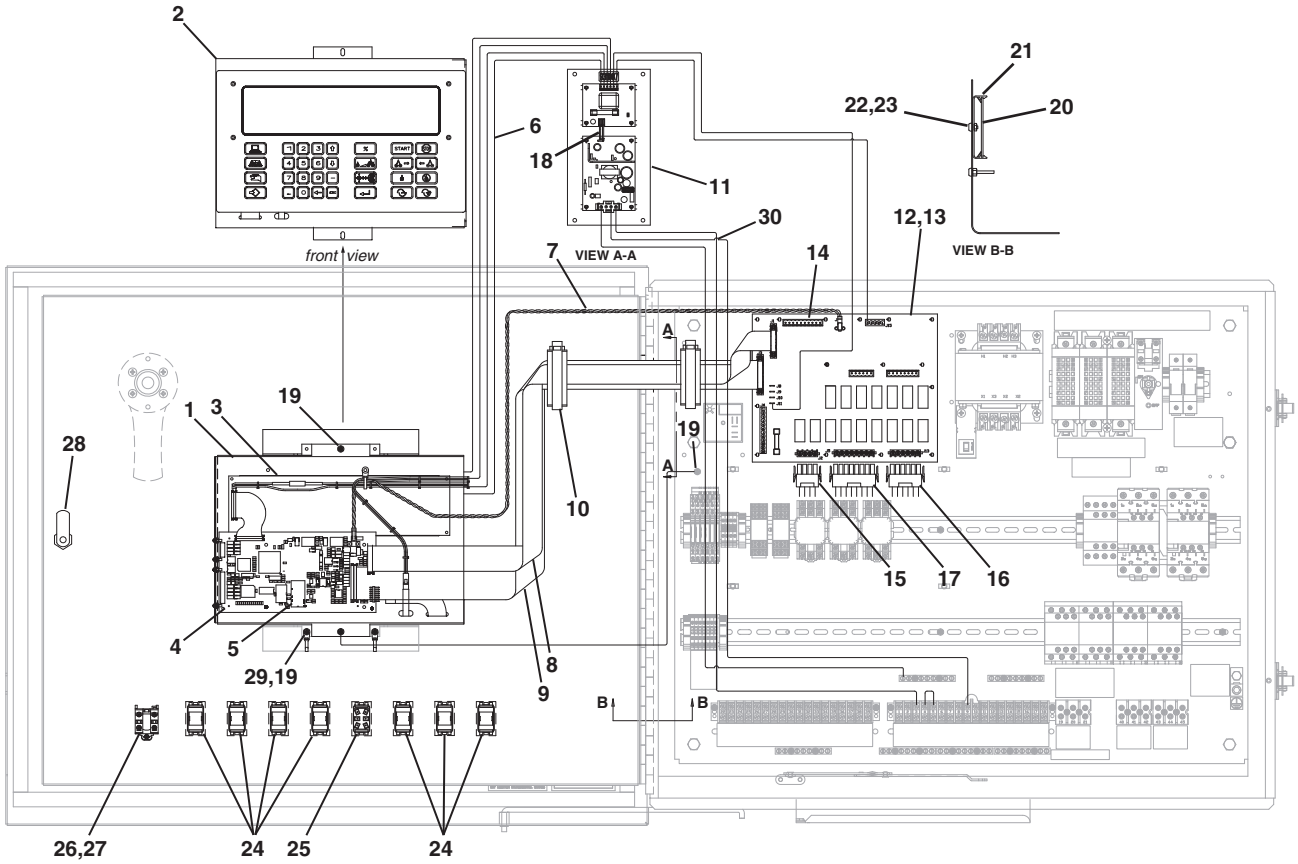
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July 2007



ITEM	DESCRIPTION	PART #
1	AutoPilot Plus Module (In Shipping Box)	KA01591
2	CAMS Pro2 Universal 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	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	03E2211
13	Terminal Strip	03E1612
14	Fuse, 2 Amp - Time Delay - 250V	03E2315
15	Spacer, Snap-In	03E0412
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	Transient Voltage Suppressor - 250V (not shown)	03E1782
21	Pro2 Backlight Dual Power Supply Harness Assm.	9311781

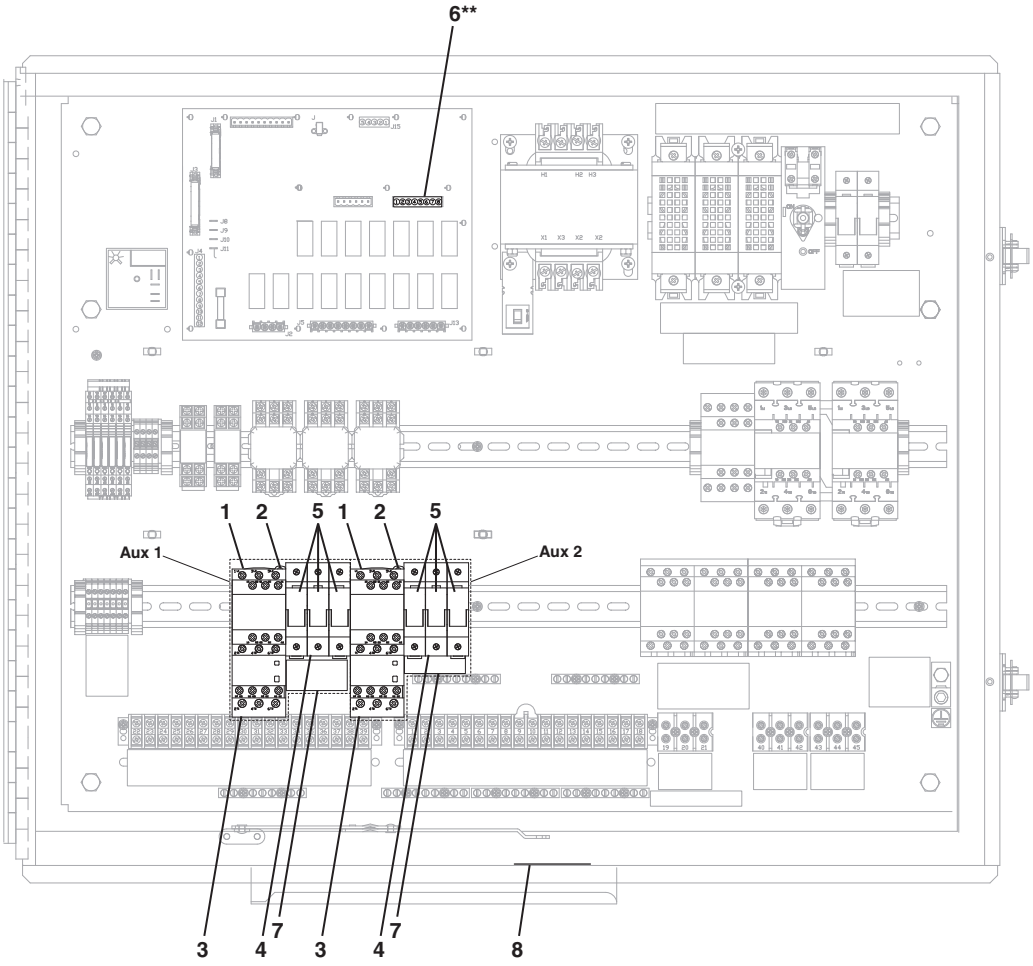
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ITEM	DESCRIPTION	PART #
1	AutoPilot+ Module Kit (In Shipping Box)	KA01591
2	AutoPilot Keypad w/ Contrast	03E2637
3	4 x 40 LCD Display w/ Backlight & Contrast	03E2275
4	Pro2+ PCB	03E3510
	CAMS Pro2 PCB - DISCONTINUED May 2013	03E2277
5	CAMS Pro2 Real Time Clock	03E2289
6	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 (Boxed)	03E2300
13	Snap-In Spacer	03E0412
14	Terminal Strip Plug - 10 Pole	03E1985
15	4 Circuit Plug, Sockets, Wires	1813160

ITEM	DESCRIPTION	PART #
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
23	#8 x 32 UNC Hex Nut	0134023
24	Dummy Rocker Switch Mount	03E1719
25	Rocker Switch DPDT - 15A	03E1722
26	Push Button	03E2438
27	Push Button Base	03E2439
28	Cabinet Lock	0991370
29	Wire Tie	0314793
30	Pro2 Backlight Dual Power Supp. Harness Assm.	9311781

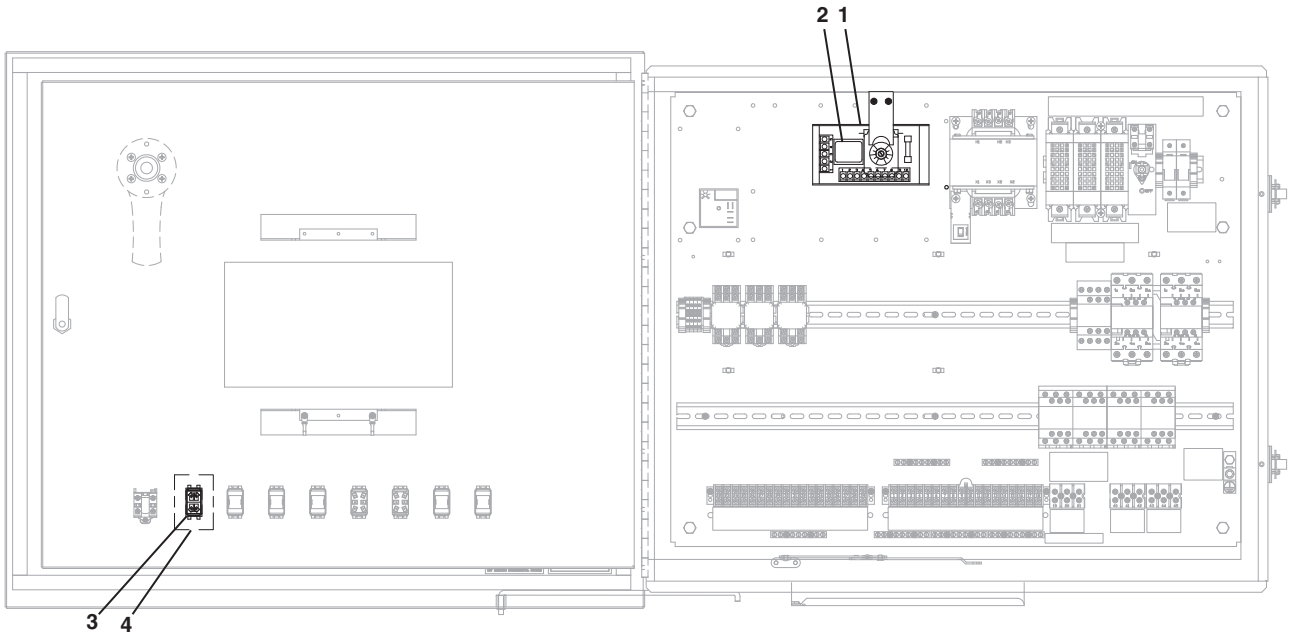
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ITEM	DESCRIPTION	PART #
1	Contactor - 3 Pole 12A	03E2325
2	Suppressor	03E3546
3	Overload Relay - 0.63-1.00A	03E2324
	- 1.00-1.60A	03E2323
	- 1.60-2.50A	03E2322
	- 2.50-4.00A	03E2321
	- 4.00-6.00A	03E2320
4	Fuse Block - 3 Pole	03E3443
5	Fuse - 8 Amp 600V Class CC	03E1620
6	Terminal Plug - 8 Pole	03E0496
7	Decal - 8 Amp Fuse Replacement	0998946
8	Decal - Auxiliary Control	0994569

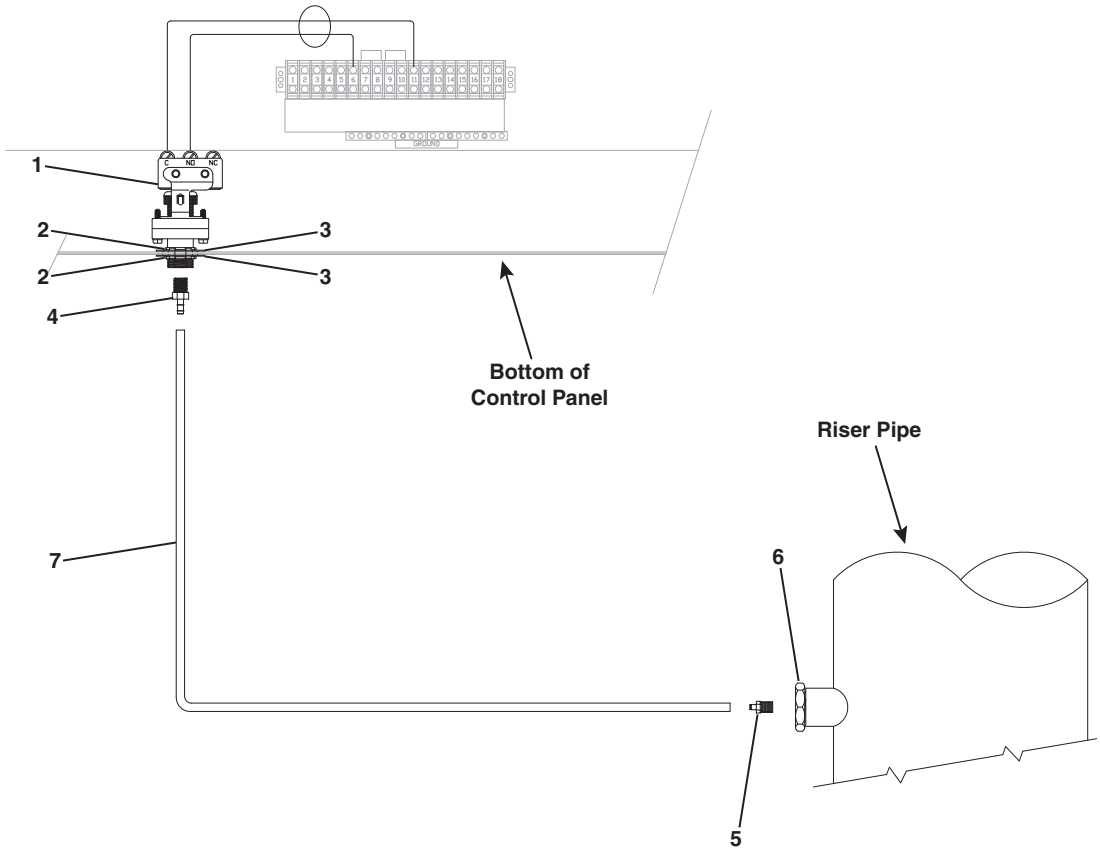
*** NOTE: Choose the Overload Relay to meet your requirements.**
**** NOTE: Comes with Auxiliary 1.**

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ITEM	DESCRIPTION	PART #
1	Voltage Monitor	0314975
	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

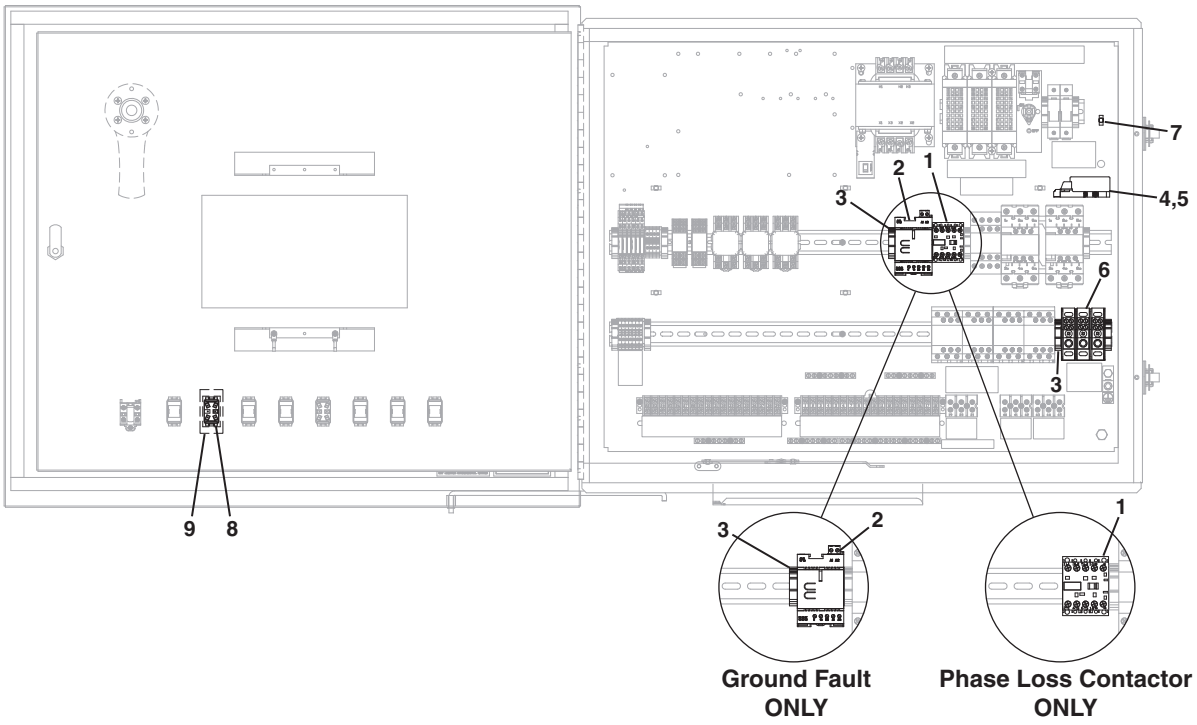
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ITEM	DESCRIPTION	PART #
1	Pressure Switch - High Range (3-90 psi)	03E1606
	Pressure Switch - Low Range (.6-15 psi)	0315994
2	1/2" Romax Nut	0314160
3	Reducer Washer - 1.00" to .50"	0143046
4	Connector - Tube to Male Pipe - 1/8" NPT x 1/4" Tubing	0232362 *
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

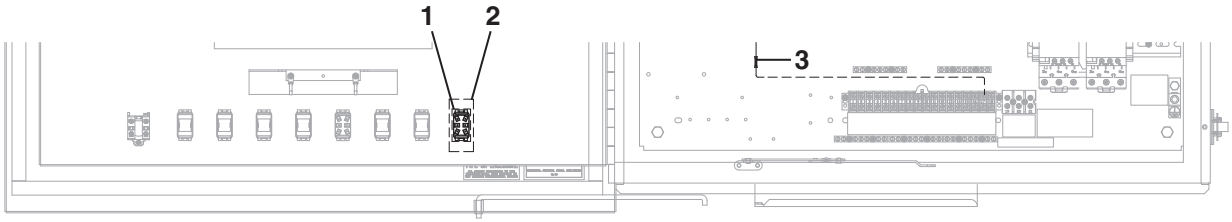
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ITEM	DESCRIPTION	PART #
1	Contactor - Phase Loss 480V Coil	03E3536
2	Ground Fault Relay - 110-130V	03E3110
3	Din Rail End Stop	03E2996
4	Ground Fault Sensor	03E3109*
5	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355*
6	Power Distribution Block - 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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End Gun Test / Auto / Off Kit

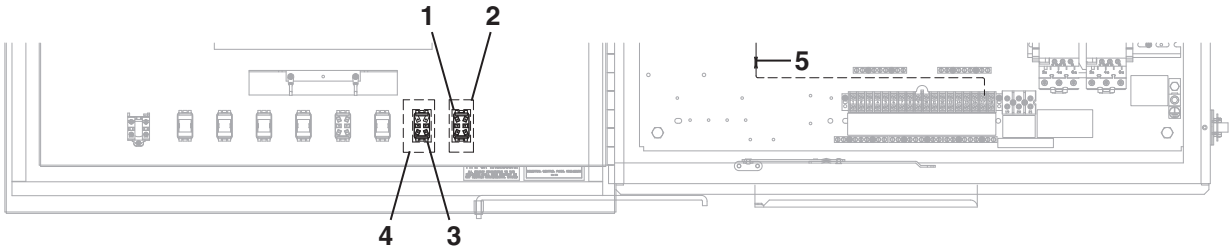
ITEM	DESCRIPTION	PART #
1	Rocker Switch - Progressive Circuit	03E1723
2	Decal - End Gun Test/Auto/Off - OBSOLETED Apr 2017	0994508
3	Butt Splice Wire Connector	03E1266

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



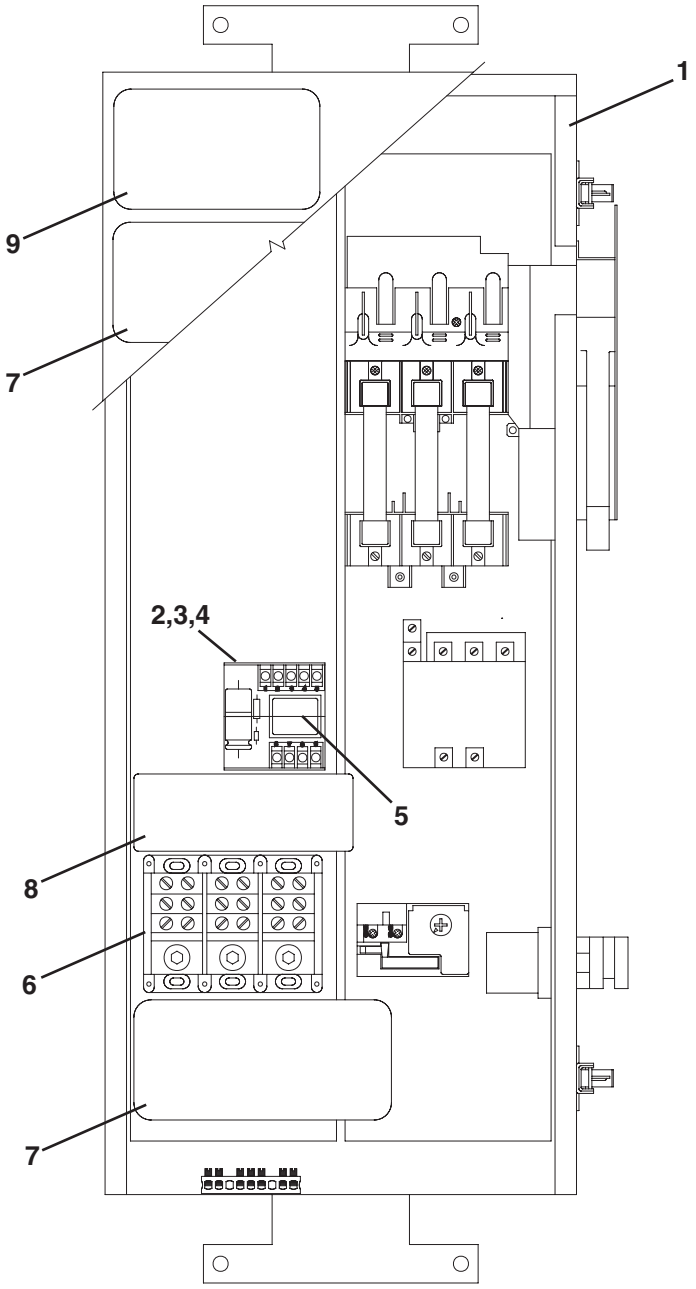
End Gun Sequence / Auto / Test Kit

ITEM	DESCRIPTION	PART #
1	Rocker Switch - 6 Tab D.P.D.T.	03E1722
2	Decal - End Gun Sequence Selector	0995238
3	Rocker Switch - Progressive Circuit	03E1723
4	Decal - End Gun Test/Auto/Off - OBSOLETED Apr 2017	0994508
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

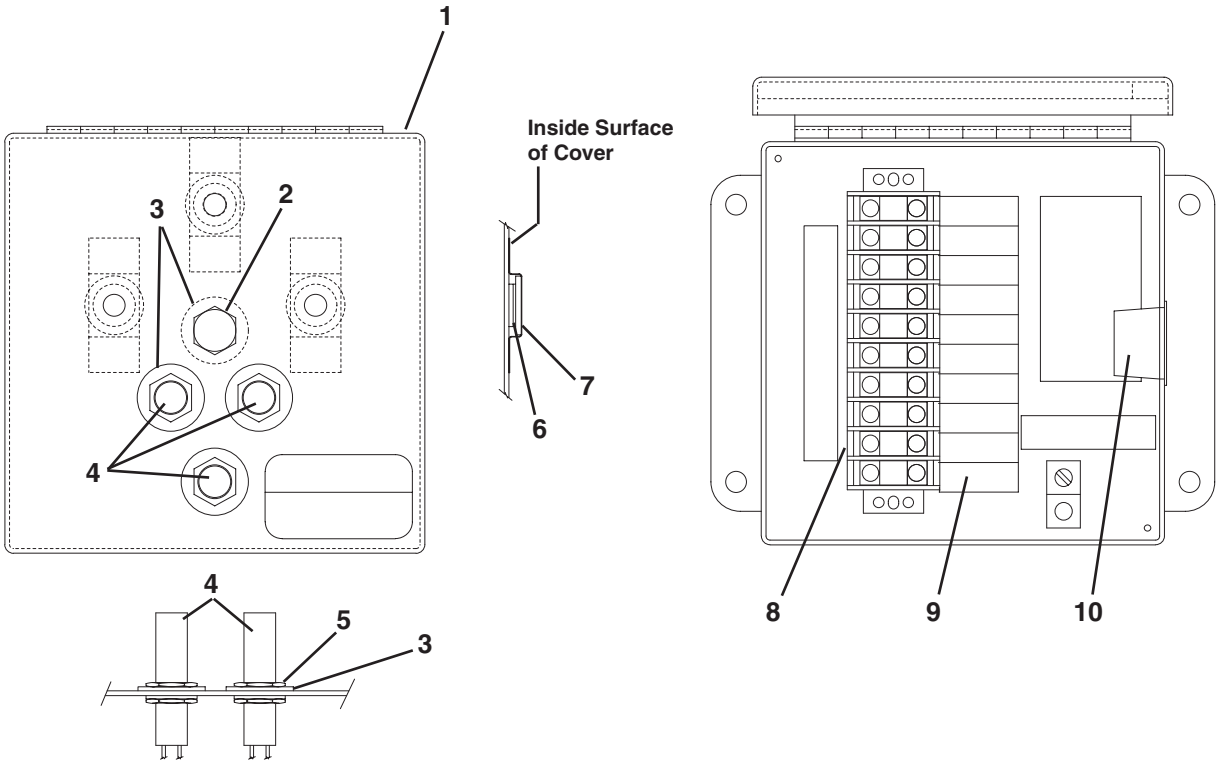
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EFFECTIVE
May 1999

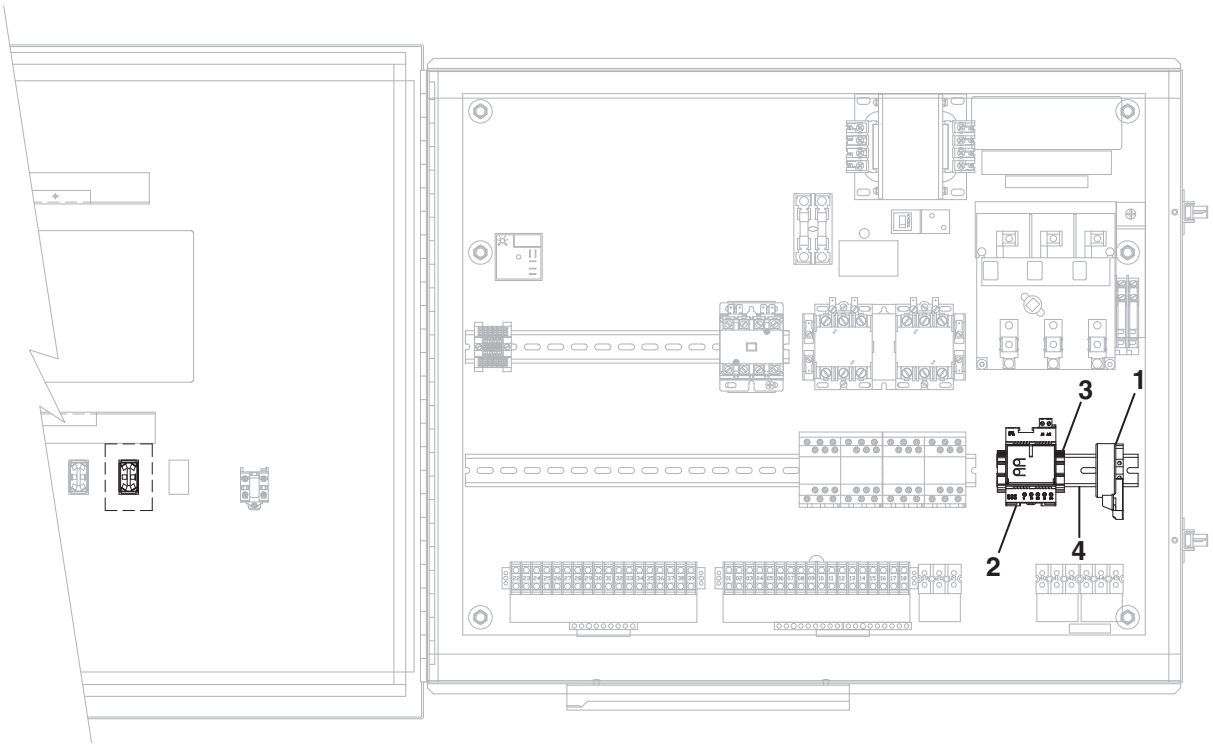
ITEM	DESCRIPTION	PART #
1	Pump Panel - 10 H.P., 480V (120V Control)	03E1873
	Pump Panel - 25 H.P., 480V (120V Control)	03E1886
2	Relay	0315559
3	Modular PCB - 3 Sec. Delay	0315560
4	Snaptrack Mounting Channel	0991422
5	Cable Tie	0314834
6	Power Distribution Block w/Clear Cover - 600 V	03E1907
7	Decal - Risk of Electric Shock	0995619
8	Decal - Warning	0315928
9	Decal - 480 Volts	0991261
	COMPLETE 10 H.P. Pump Panel Assembly	9310382
	COMPLETE 25 H.P. Pump Panel Assembly	9310383

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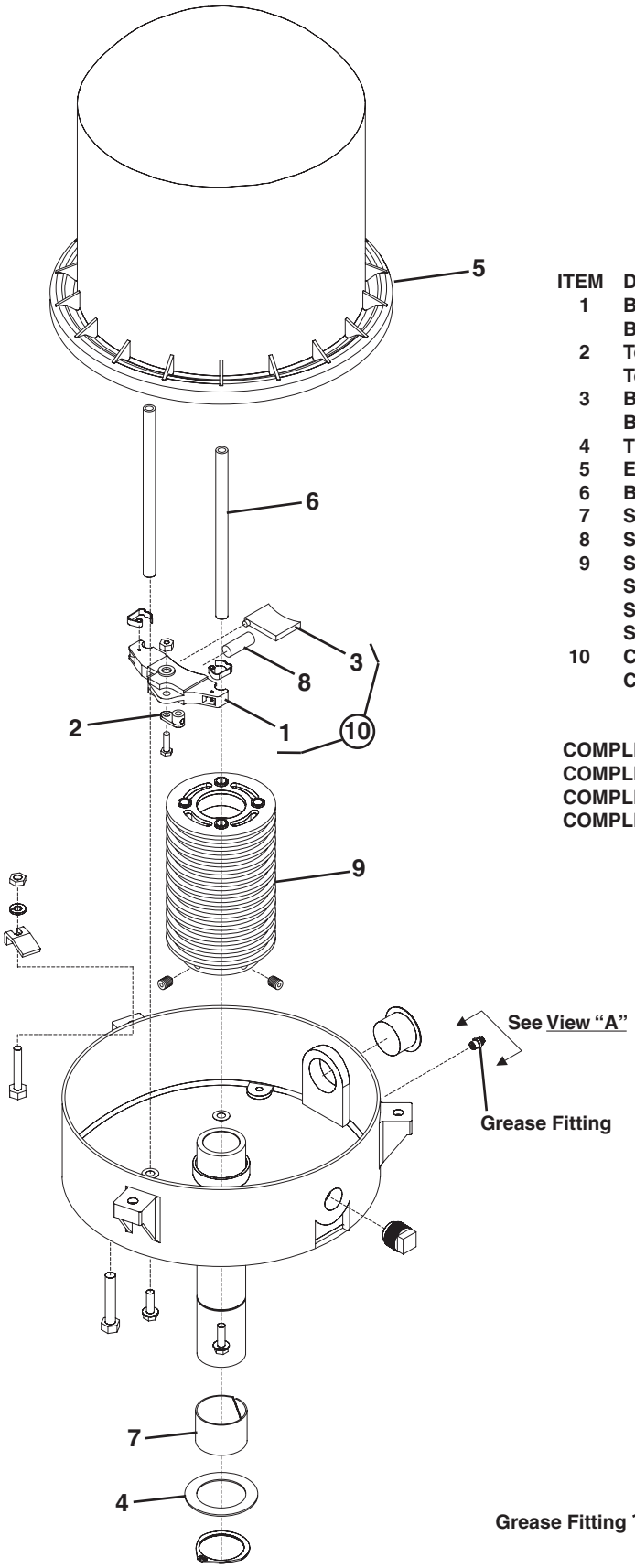
ITEM	DESCRIPTION	PART #
1	Proximity Box - OBSOLETED Nov. 2015	9310271
2	7/16" x 1" Cap Screw	0161397
	7/16" Hex Nut - OBSOLETED Nov. 2015	0131071
3	Washer, Sealing Bonded Neoprene - OBSOLETED Nov. 2015	03E1807
4	Proximity Sensor Switch	03E1808
5	Metal Mounting Hardware Kit - OBSOLETED Dec. 2016	03E1809
6	Washer, Sealing Bonded Neoprene - OBSOLETED Nov. 2015	03E1817
7	5/16" Washer	0142017
8	10 Position Terminal Block	03E1649
9	Decal-10 Position Terminal Block - OBSOLETED Nov. 2015	0995223
10	Caplug #13	0261009
	Proximity Switch Box Assembly - OBSOLETED Nov. 2015	1813468

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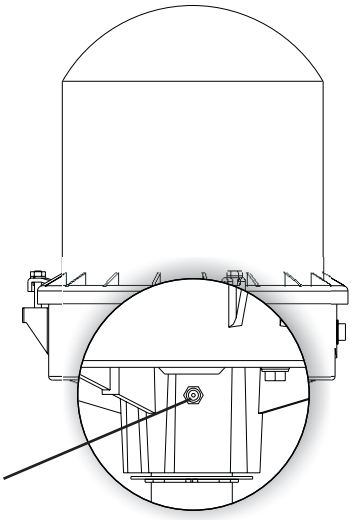
ITEM	DESCRIPTION	PART #
1	Ground Fault Sensor	03E3109
2	Ground Fault Relay	03E3110
3	Din Rail End Stop	03E2996
4	Din Rail Mount - 5" Long	9310693
5	Illuminated Rocker Switch	03E3116
6	Ground Fault Reset/Test Switch Decal - OBSOLETED Apr 2017	0998099

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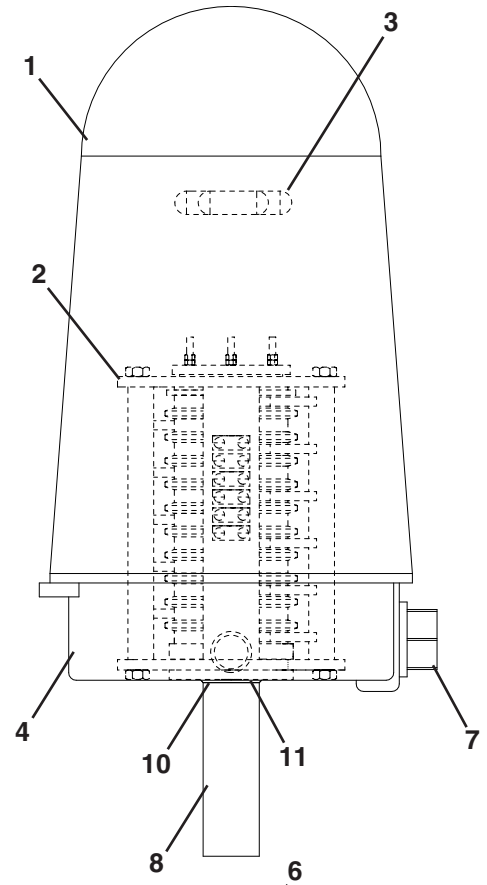
ITEM	DESCRIPTION	PART #
1	Brush Holder (30 Amp)	0315381
	Brush Holder (45 Amp)	03E2220
2	Terminal (30 Amp)	0315372
	Terminal (45 Amp)	03E2218
3	Brush (30 Amp)	0315380
	Brush (45 Amp)	03E2219
4	Thrust Ring	0143061
5	Extended Cover	03E1496
6	Brush Stud Kit (4 Studs w/Screws)	03E2212
7	Split Bushing	0192073
8	Spring (30 & 45 Amp)	0315373
9	Slip Ring Assm. (11 Cond. 30 Amp)	0315383
	Slip Ring Assm. (12 Cond. 30 Amp)	03E2208
	Slip Ring Assm. (11 Cond. 45 Amp)	03E2207
	Slip Ring Assm. (14 Cond. 30 Amp)	03E2209
10	COMPLETE Brush Assm. (30 Amp)	03E2216
	COMPLETE Brush Assm. (45 Amp)	03E2217

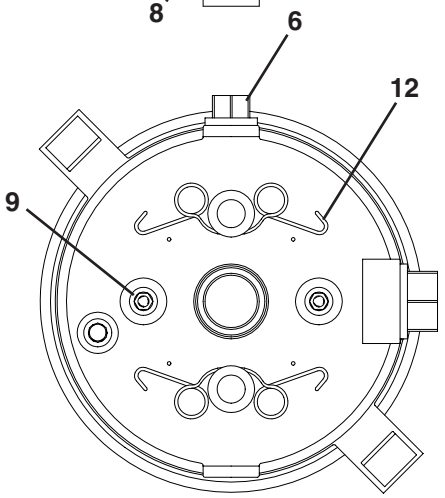
COMPLETE 11 Conductor 30 ACollector Ring	0315165
COMPLETE 11 Conductor 45 A Collector Ring	0315675
COMPLETE 12 Conductor 30 A Collector Ring	03E0471
COMPLETE 14 Conductor 30 A Collector Ring	03E2062



View "A"

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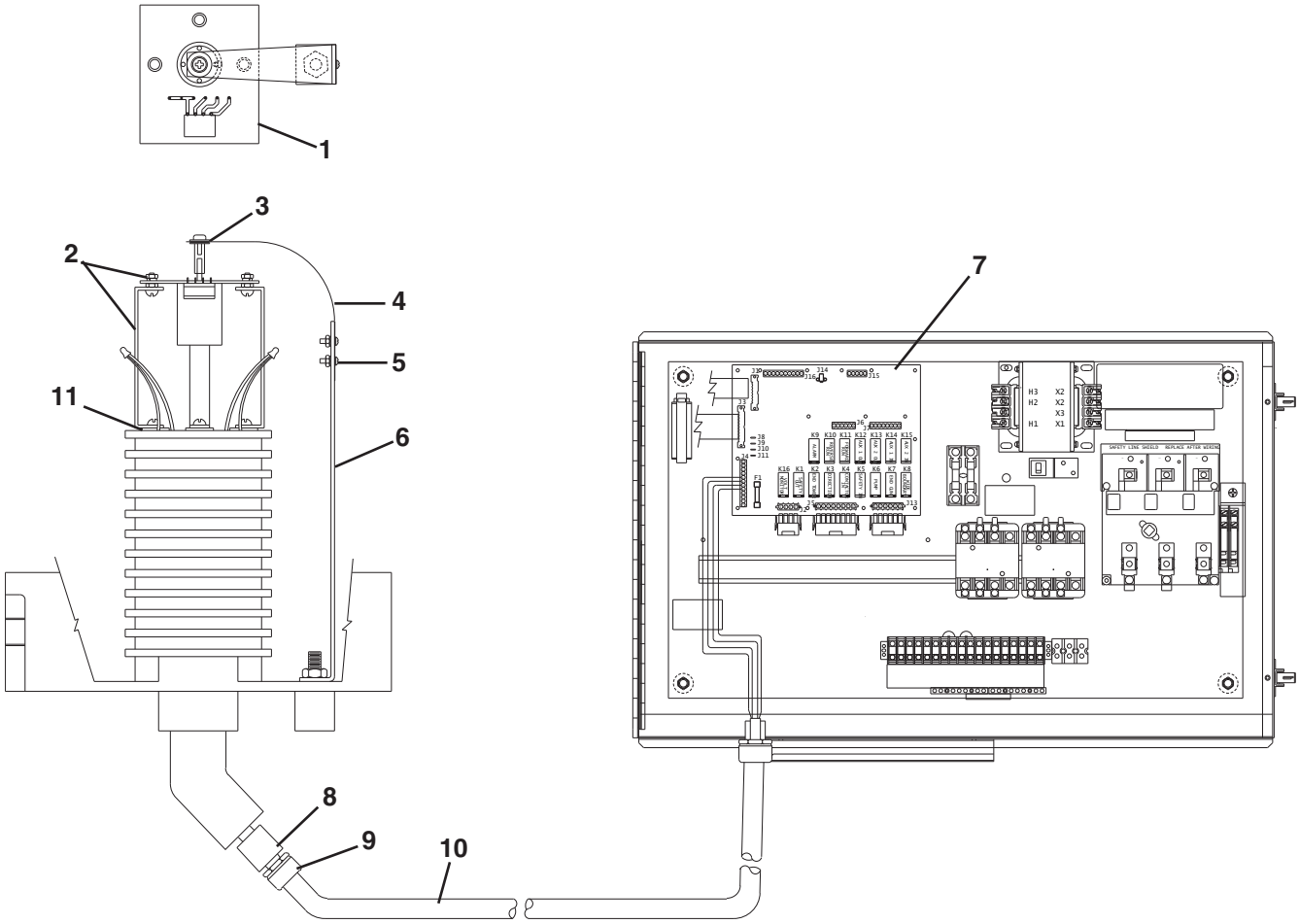




ITEM	DESCRIPTION	PART #
1	Top Cover	03E2647
2	Slip Ring Assm. (11 Cond. 30 Amp)	03E2641
	Slip Ring Assm. (11 Cond. 45 Amp)	03E2644
	Slip Ring Assm. (12 Cond. 30 Amp)	03E2642
	Slip Ring Assm. (12 Cond. 45 Amp)	03E2645
	Slip Ring Assm. (14 Cond. 30 Amp)	03E2643
3	Bagged Nuts & Connectors	N/A
4	E-Ring Slip Ring	N/A
5	Hub - 1/2" NPT w/Ground	N/A
6	Hub - 1/2" NPT w/Ground	03E2202
7	Hub - 1" NPT w/Ground	03E2203
8	Mounting Shaft	N/A
9	5/16" - 18 Flange Hex Nut	N/A
10	V-Ring Seal	N/A
11	Thrust Washer	N/A
12	Spring Brush Holder	03E2646

COMPLETE 11 Conductor 30 A Collector Ring	03E2197
COMPLETE 11 Conductor 45 A Collector Ring	03E2425
COMPLETE 12 Conductor 30 A Collector Ring	03E2426
COMPLETE 12 Conductor 45 A Collector Ring	03E2565
COMPLETE 14 Conductor 30 A Collector Ring	03E2427

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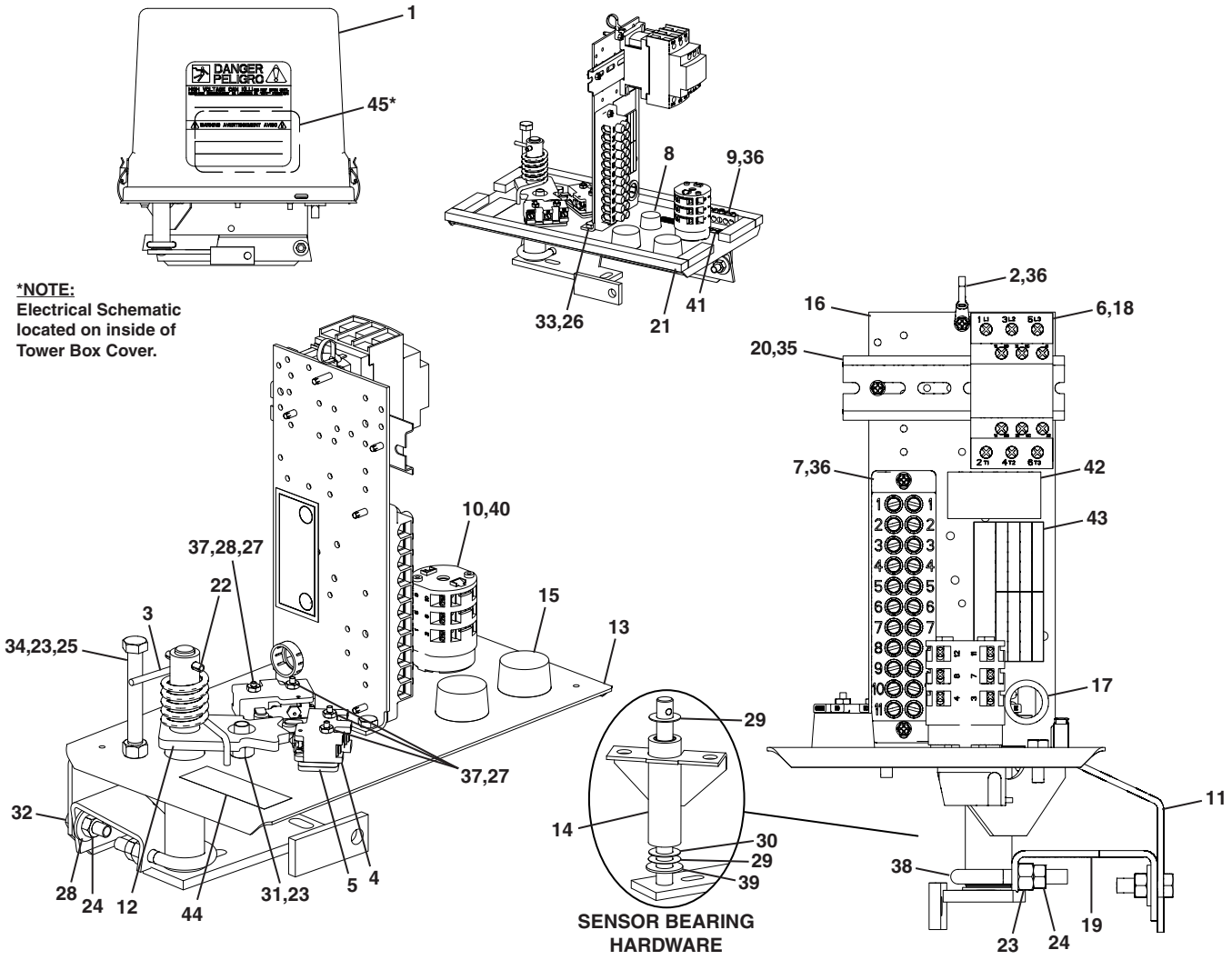
ITEM	DESCRIPTION	PART #
1	Resolver Assembly	1813992
2	Resolver Bracket (3 Req'd)	9361174
	#10 Hex Nut	0131055
	#10 x 3/4" Round Head Screw	0164038
	#10 Lock Washer	0141065
3	#6 Lock Washer Internal Tooth (2 Req'd)	0142073
	#6 x 1/4" Phillips Screw	0164188
4	Sensor Arm	03E1732
5	#4-40 x 3/8" Pan Head Screw	0164108
	#4 Internal Tooth Lock Washer	0141037
	#4-40 Hex Nut	0134040

ITEM	DESCRIPTION	PART #
6	Resolver Sensor Bracket - Short	03E0015
	Resolver Sensor Bracket - Long	03E2588
7	Relay Board (Boxed)	03E2300
	Field Wiring	9310099
8	1" Coupling	0245003
9	1" Strain Relief Hub	0314466
10	Shielded Elec. Cable 16 Wire, 8 ga	1813095
	Shielded Elec. Cable 16 Wire, 10 ga	1813096
11	1/4" Flat Washer (3 Req'd)	0142022

COMPLETE Resolver Sensor Position Assy. 931K655

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Functional Area	Assembly / Part	Rev# 12-17
Electrical	Intermediate Tower Box	

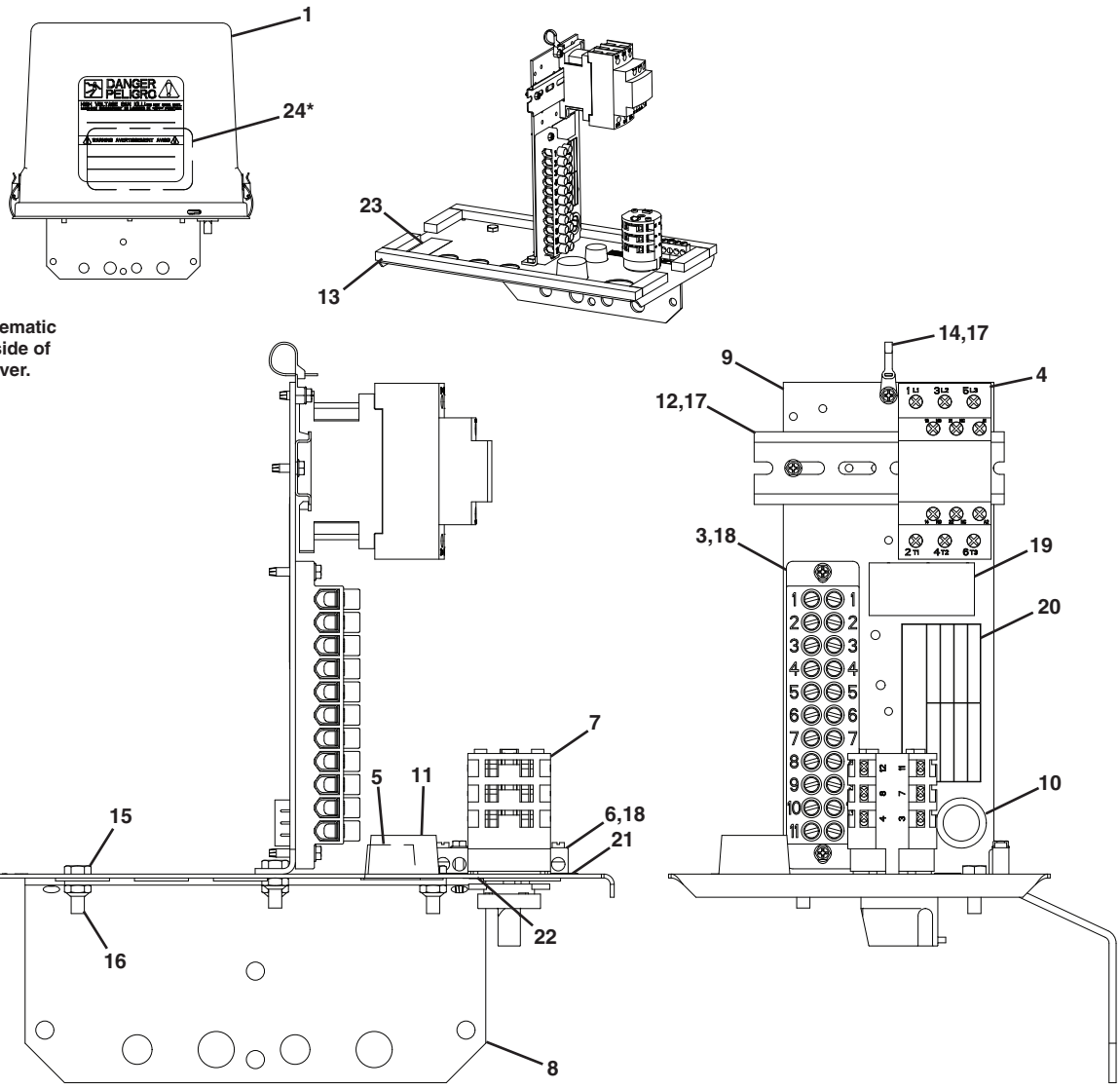


*NOTE:
Electrical Schematic located on inside of Tower Box Cover.

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	03E3734
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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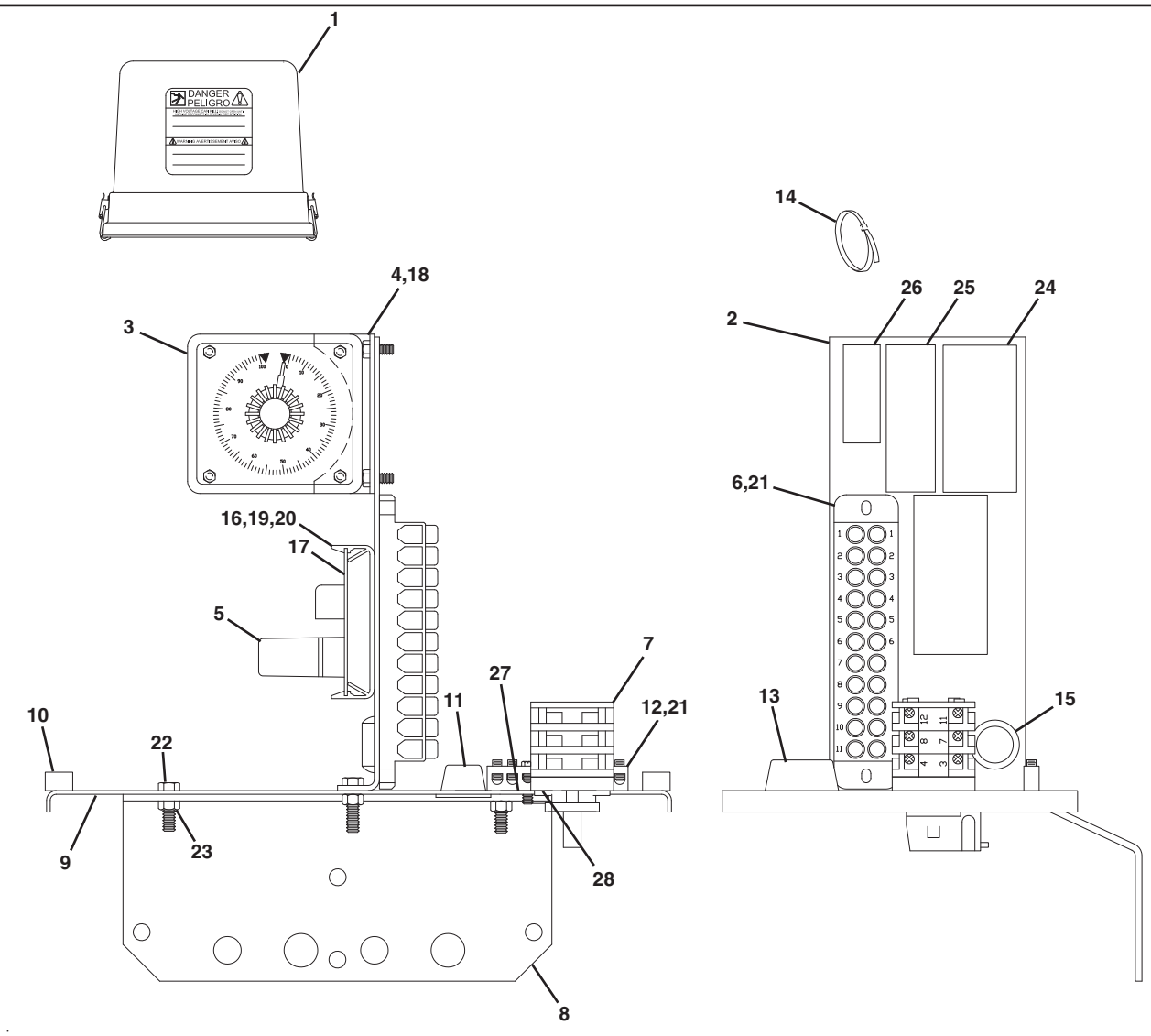


***NOTE:**
Electrical Schematic located on inside of Tower Box Cover.

ITEM	DESCRIPTION	PART #
1	Electric Tower Box Cover - UL	9311146
2	Bottom Plate	1702216
3	Terminal Block	03E1899
4	3 Pole Contactor - 25A 120V	03E3734
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

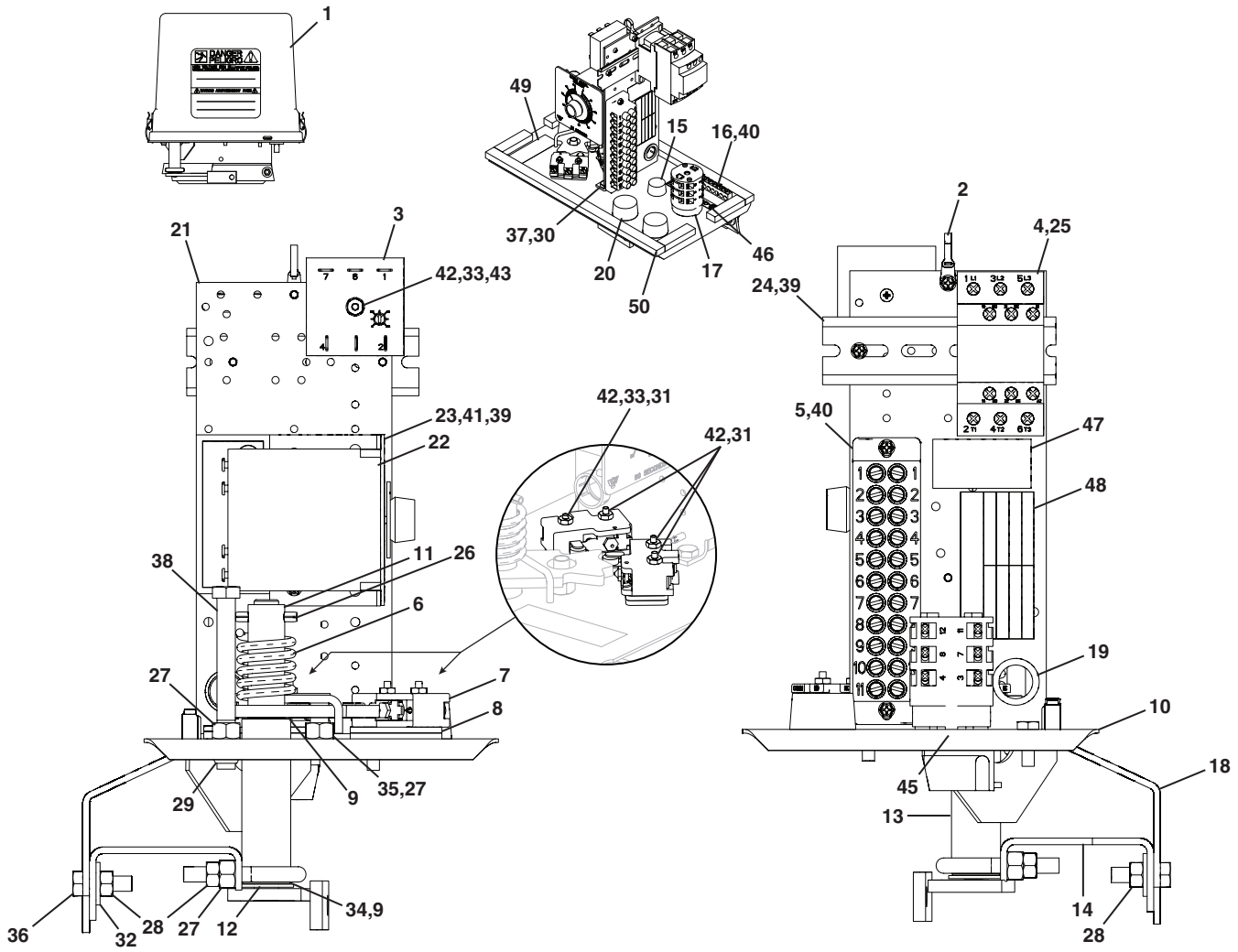
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ITEM	DESCRIPTION	PART #
1	Electric Tower Box Cover - UL	9311146
2	Vertical Plate	1702053
3	Percent Timer	03E2035
4	Bracket	1750504
5	4 Pole Relay - 120V	0314610
6	Terminal Block	03E1899
7	Disconnect Switch	0315746
8	Mounting Plate	1702054
9	Bottom 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

ITEM	DESCRIPTION	PART #
16	Snaptrack Mounting Channel - 2"	0314833
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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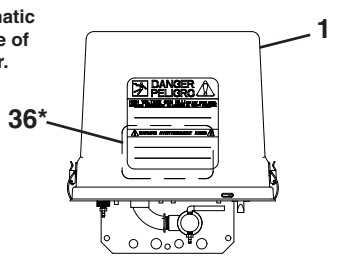


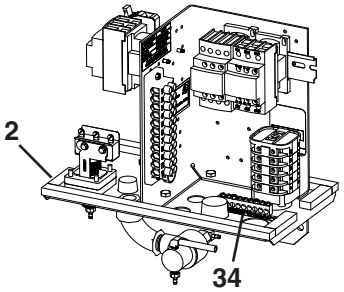
ITEM	DESCRIPTION	PART #
1	Electric Tower Box Cover - UL	9311146
2	Harness Tie	0314793
3	Overwatering Delay Timer	03E3232
4	3-Pole Contactor - 25A 120V Coil	03E3734
5	Terminal Block	03E1899
6	Spring	0181046
7	Micro Switch	03E0307
8	Insulator	1701632
9	Washer .030 x .510 x .968 - Stainless Steel	0143047
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

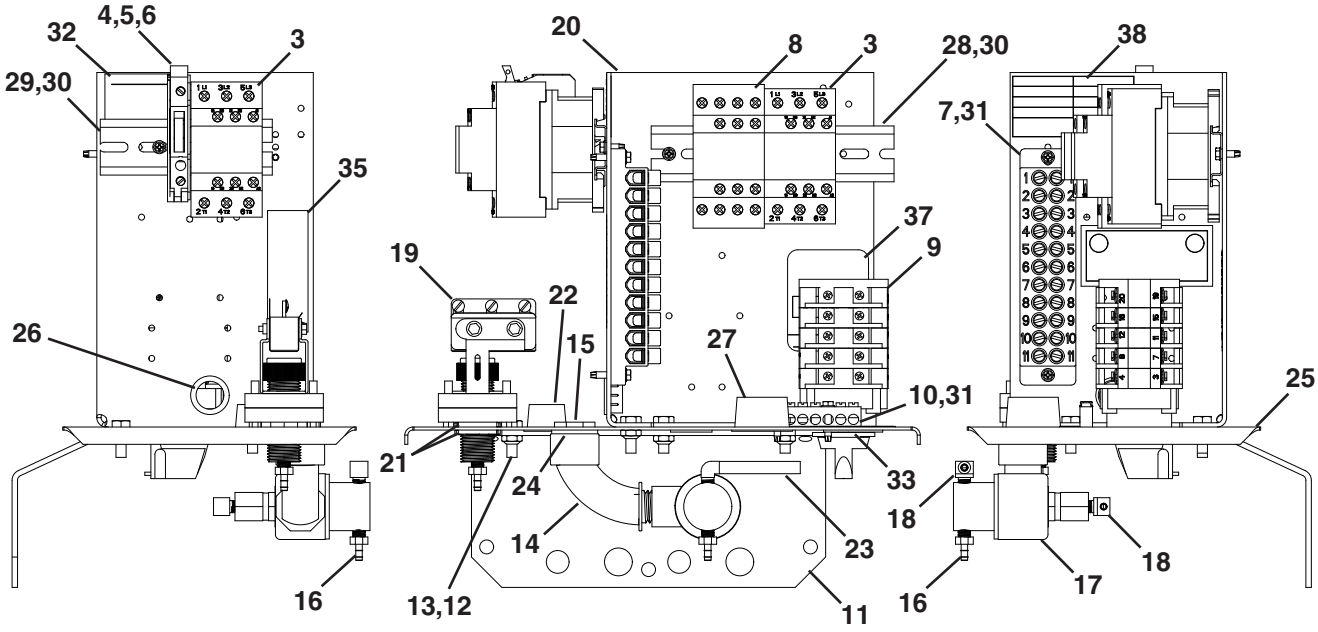
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***NOTE:**
Electrical Schematic located on inside of Tower Box Cover.





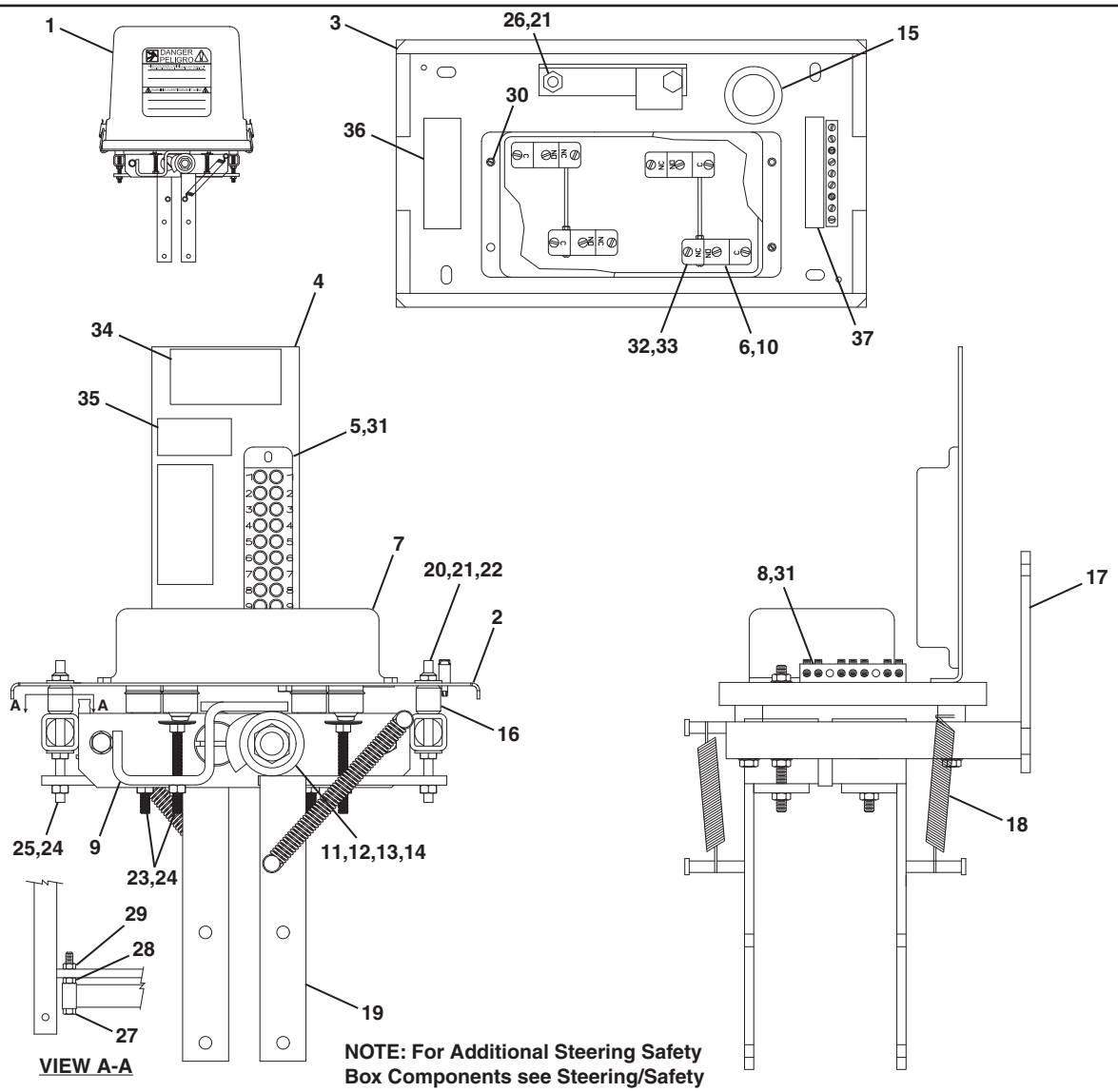
ELECTRICAL FUSING NOTE:
5 H.P. & 7.5 H.P. Booster Pumps require one KA00763 Fusing Kit per Drive Unit & one KA00233 per Corner System.



ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Gasket Kit	0992071
3	3 Pole Contactor - 25A 120V	03E3734
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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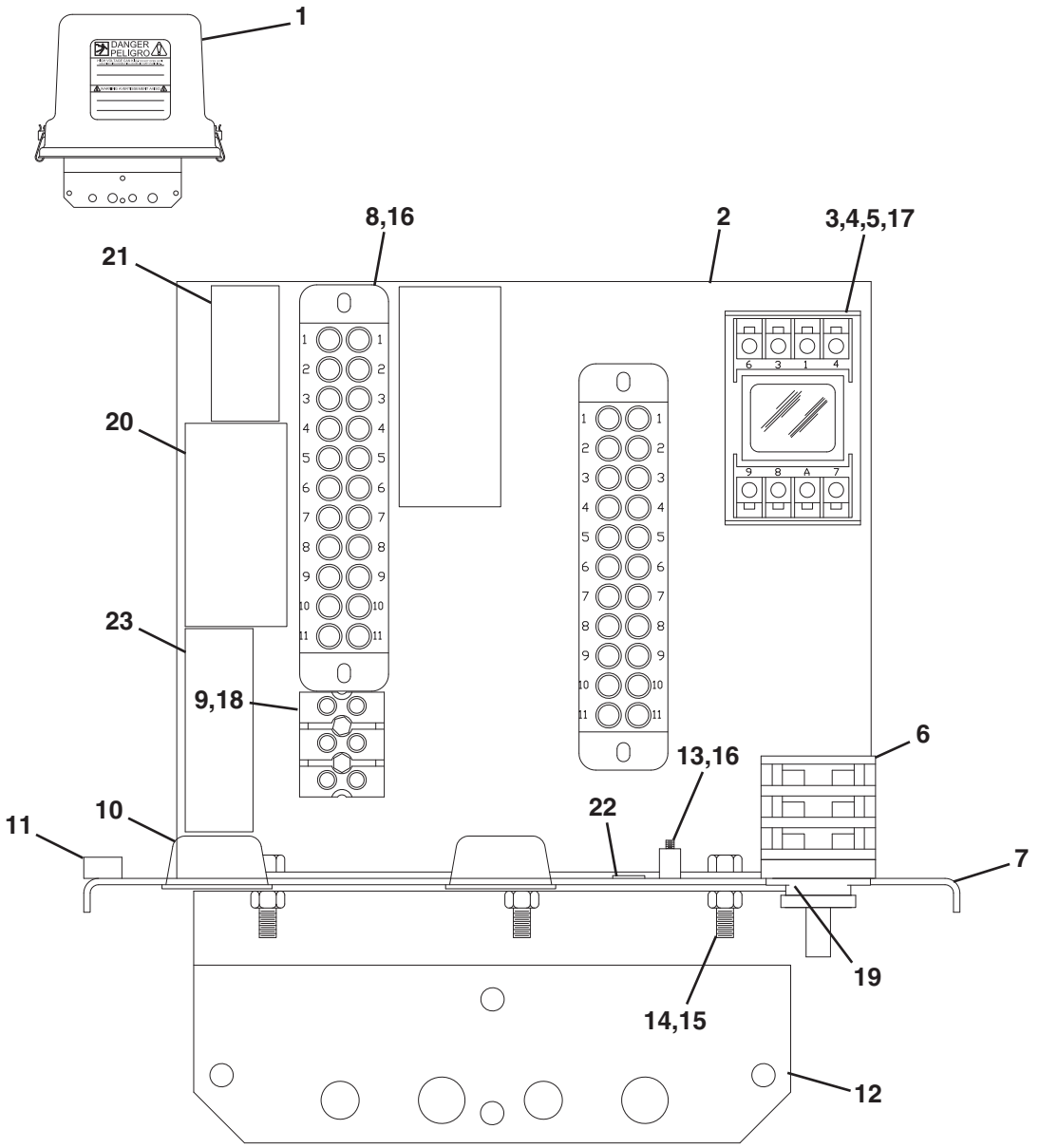


NOTE: For Additional Steering Safety Box Components see Steering/Safety Box Pg. in Guidance Section.

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

ITEM	DESCRIPTION	PART #
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

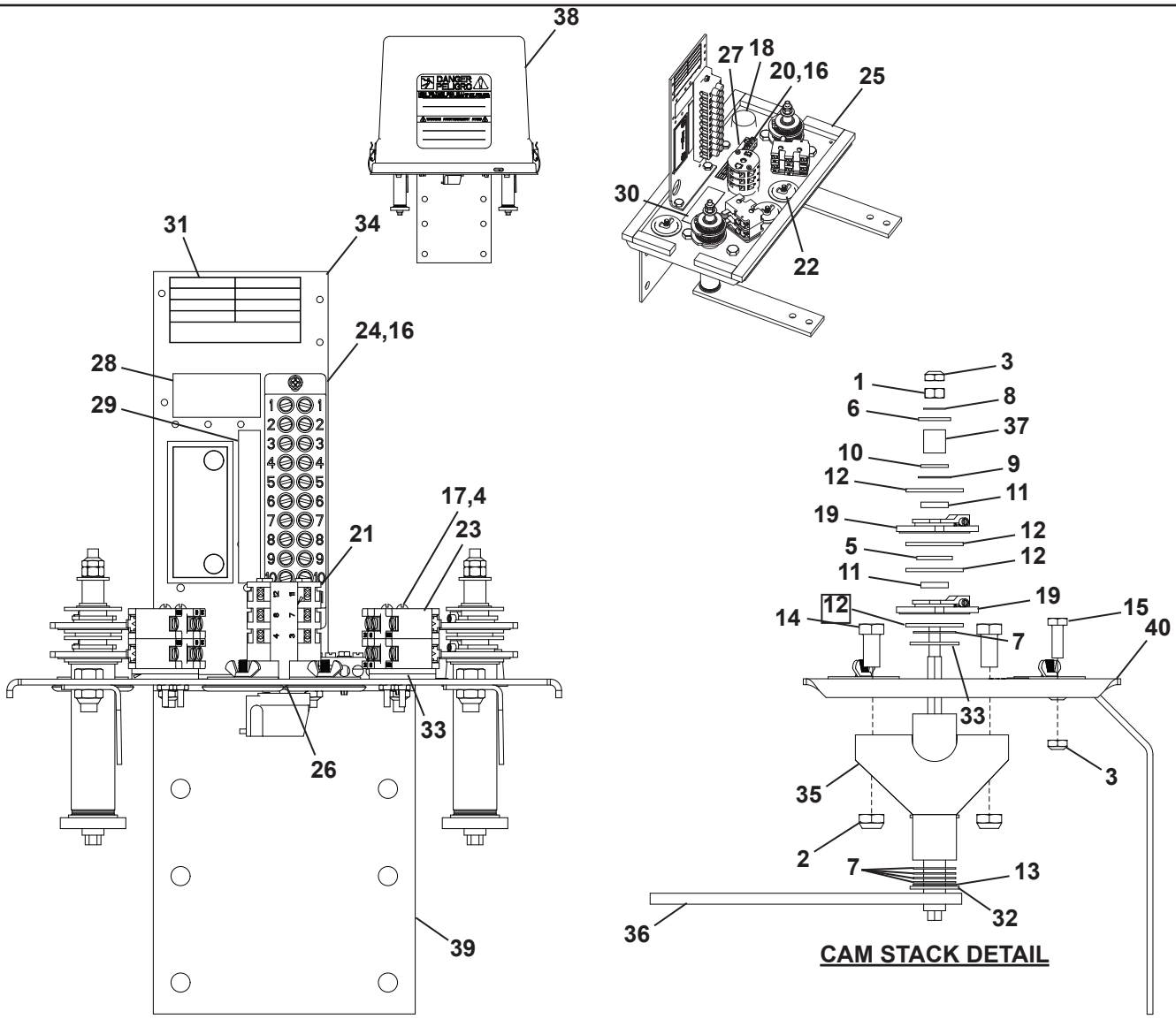
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ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Mounting Plate	1702364
3	Snaptrack	0314833
4	Relay Socket	0315688
5	Relay	0314936
6	Disconnect Switch	0315746
7	Bottom Plate	1703024
8	Terminal Block	03E1899
9	Terminal Strip	0315121
10	Caplug #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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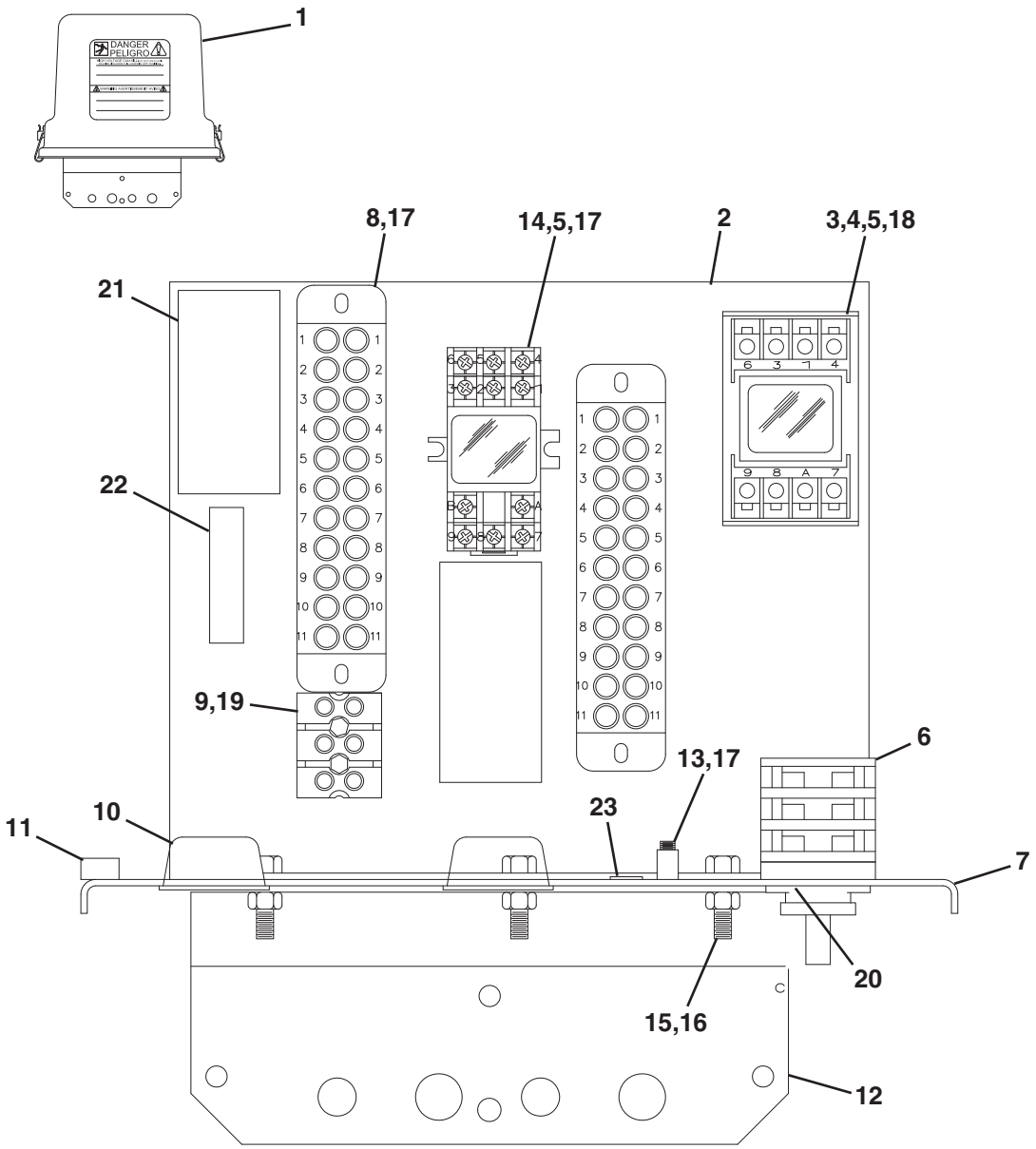


CAM STACK DETAIL

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

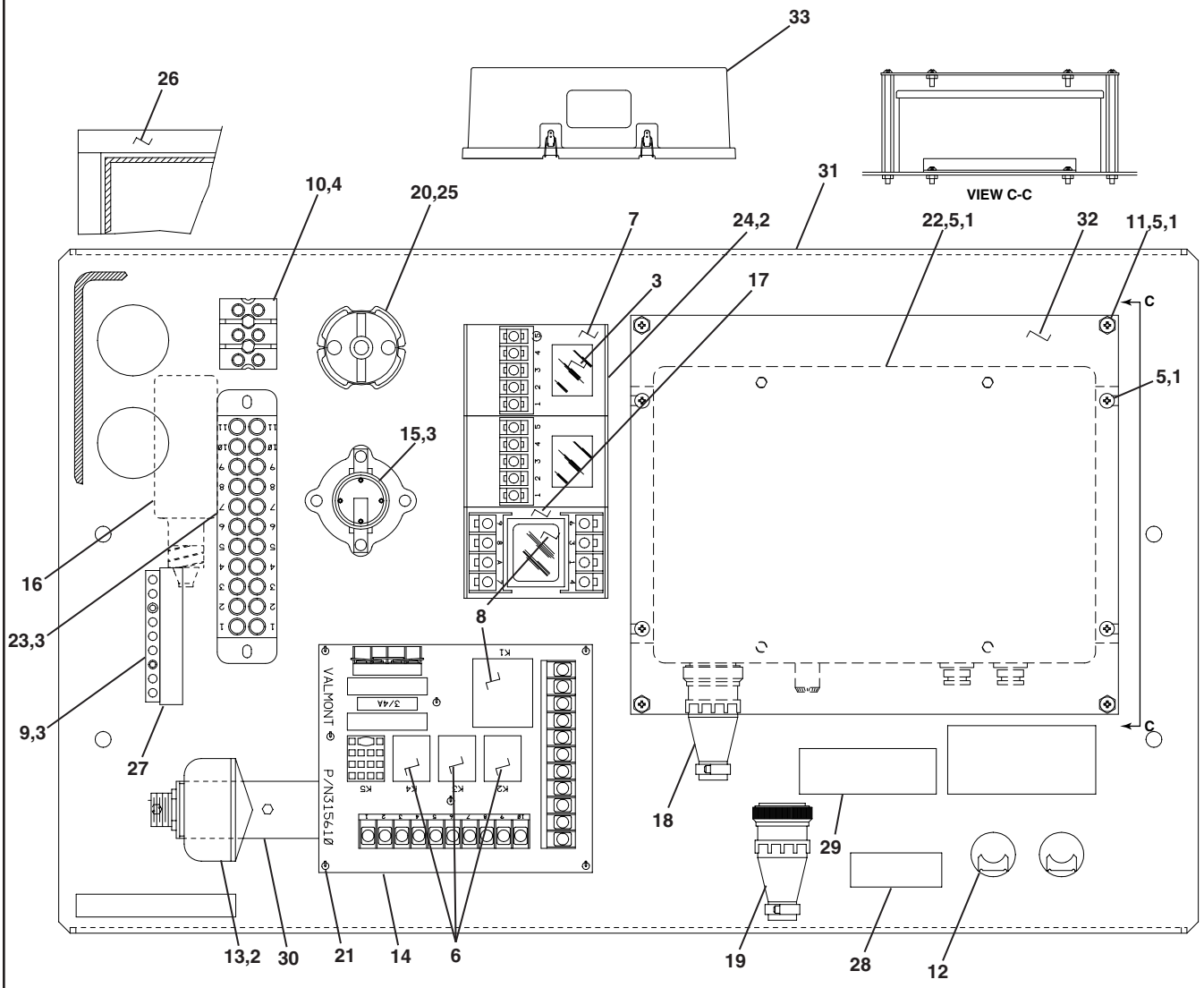
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ITEM	DESCRIPTION	PART #
1	Tower Box Cover - UL	9311146
2	Mounting Plate	1702364
3	Snaptrack	0314833
4	Relay Socket	0315688
5	Relay	0314936
6	Disconnect Switch	0315746
7	Bottom Plate	1703024
8	Terminal Block	03E1899
9	Terminal Strip	0315121
10	Caplug #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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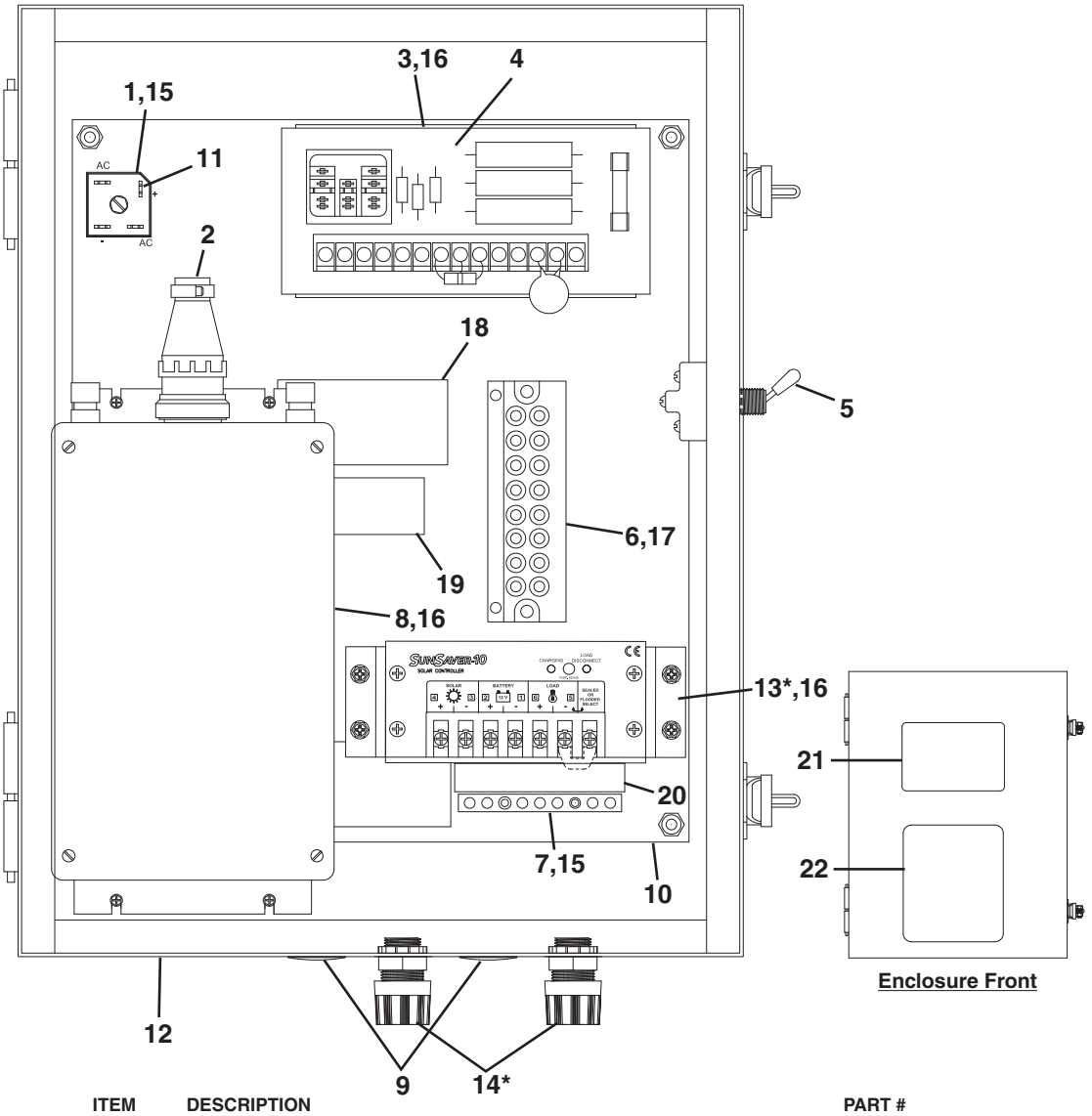
ITEM	DESCRIPTION	PART #
1	#8 Hex Nut	0134023
2	#8 x 1/2" Self-Tapping Screw - Phillips Head	0161355
3	#8 x 7/8" Self-Tapping Screw - Phillips Head	0161356
4	#8 x 1-1/4" Self-Tapping Screw - Phillips Head	0161357
5	#8 x 1/2" Screw - Round Head	0164042
6	Relay - P&B #KHU17A12-120V	0314610
7	PCB Isolation 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.

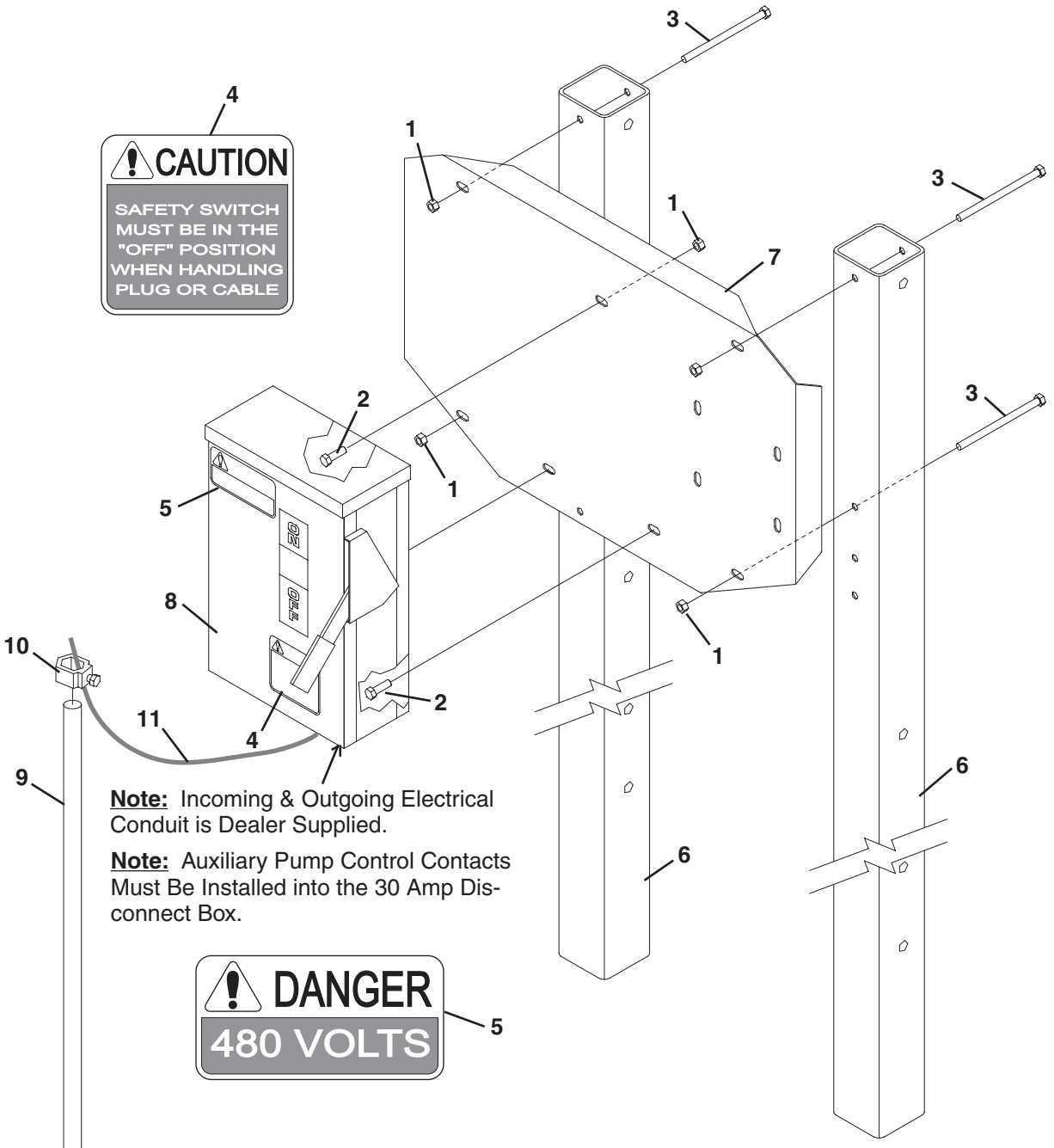
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ITEM	DESCRIPTION	PART #
1	Rectifier Bridge	0314894
2	Harness Assembly	0315726
3	Snaptrack	0991587
4	P.C.B. Expanded Oscillator Protection	0315585
5	Toggle Switch	0315734
6	Terminal Strip	0315122
7	Ground Lug	0315120
8	1000 Hz Power Oscillator	03E2245
	1200 Hz Power Oscillator	03E2246
9	Snap Button Hole Plug	03E2166
10	Mounting Panel	1731046
11	Terminal - Female QC .250 Tab 14-16 AWG	0314566
12	Oscillator Enclosure	1732203
13	Voltage Regulator	03E2586*
14	Strain Relief Hub	0314119*
15	#8 x 7/8" Self Tapping Screw	0161356
16	#8 x 1/2" Self Tapping Screw	0161355
17	#8 x 1-1/4" Self Tapping Screw	0161357
18	Decal - Terminal Block Torque Copper Wire	0998450
19	Decal - UL Circuit Supply 120 Volt 5 Amp	0994147
20	Decal - Ground	0992925
21	Decal - Oscillator Box	0315690
22	Decal - Danger High Voltage/Arc Flash Warning	0999122
	Oscillator Enclosure Assembly (Does not include Oscillator)	1811730

* NOTE: Included in Solar Powered Oscillator Hardware Kit KA00915

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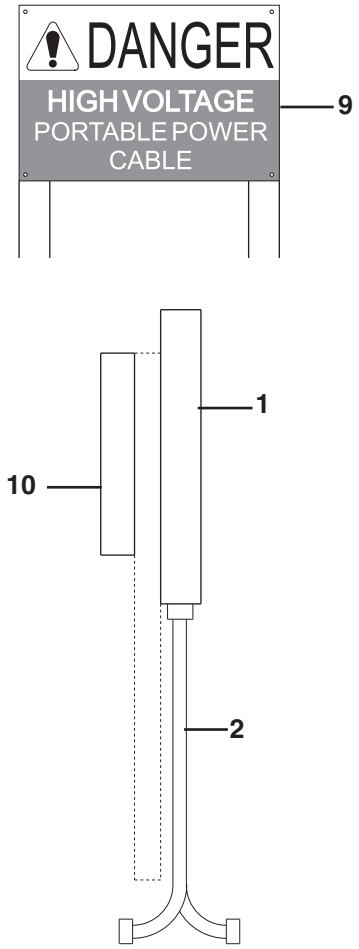


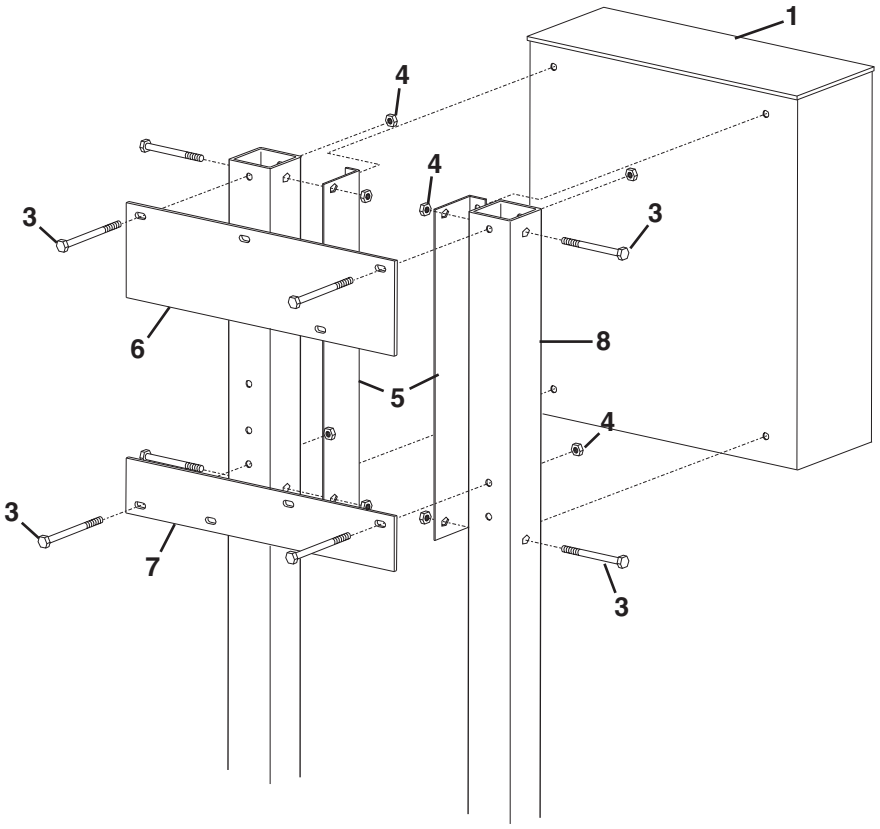
Note: Incoming & Outgoing Electrical Conduit is Dealer Supplied.

Note: Auxiliary Pump Control Contacts Must Be Installed into the 30 Amp Disconnect Box.

ITEM	DESCRIPTION	PART #
1	5/16" Lock Nut	0133007
2	5/16" x 1" Cap Screw	0161052
3	5/16" x 4" Cap Screw	0161181
4	Decal - "CAUTION-Safety Switch Off Position"	0992748
5	Decal - "DANGER- 480 Volts"	0992749
6	Mounting Plate Support	1732283
7	Mounting Plate	1732284
8	30 Amp Enclosure	1813431
9	Ground Rod - 5/8" x 10' Long	0314910
10	Clamp - Ground Rod	0314911
11	Copper Ground Wire - 6 AWG - 15' Long	1701950

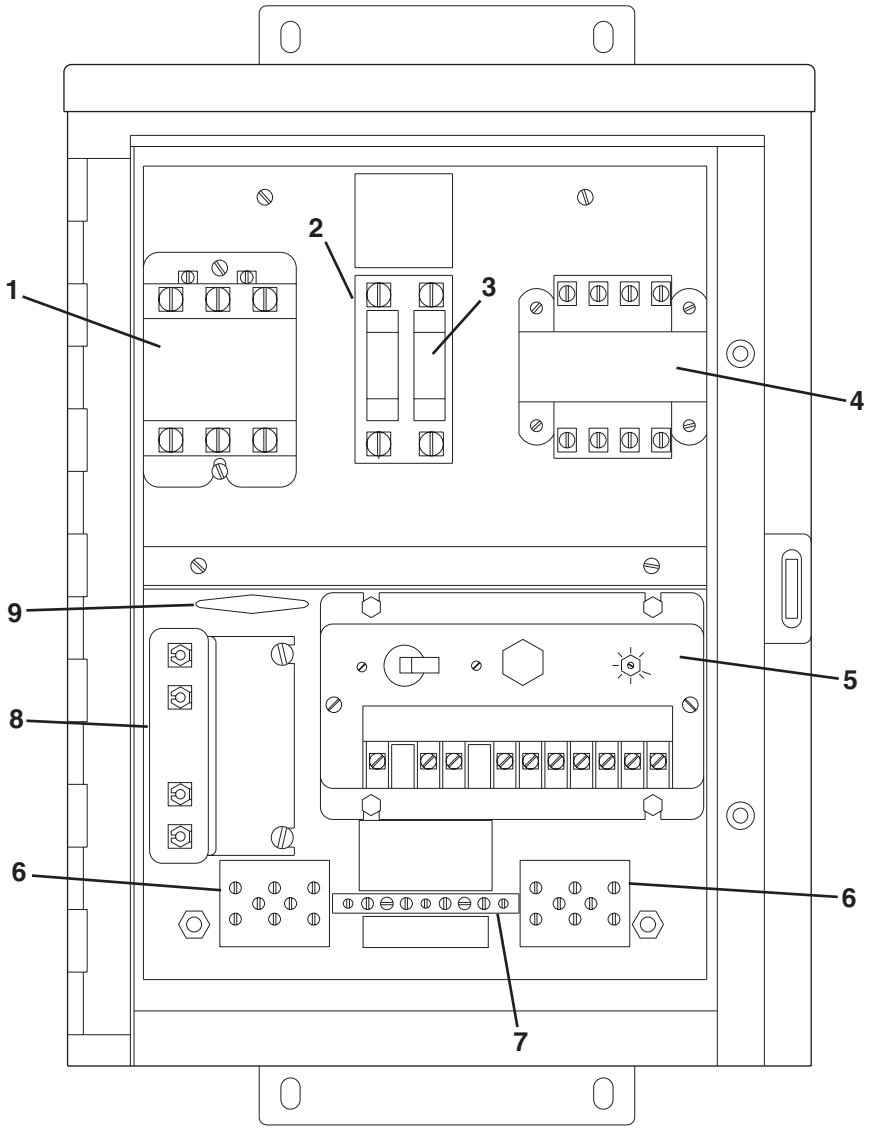
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ITEM	DESCRIPTION	PART #
1	2/0 AWG Junction Box	1811890
	500 MCM Junction Box	1811889
2	2" Conduit Assembly (2/0 AWG)	1811893
	3" Conduit Assembly (500 MCM)	1811891
3	5/16" x 4" Cap Screw	0161181
4	5/16" Lock Nut	0133007
5	Cord Drag J-Box Bracket	1732885
6	Upper Mounting Strap	1732298
7	Lower Mounting Strap	1732297
8	Mounting Plate Support	1732283
9	Power Cable Warning Sign	1732291
10	30 Amp Ground Fault Interrupter Box	1811857

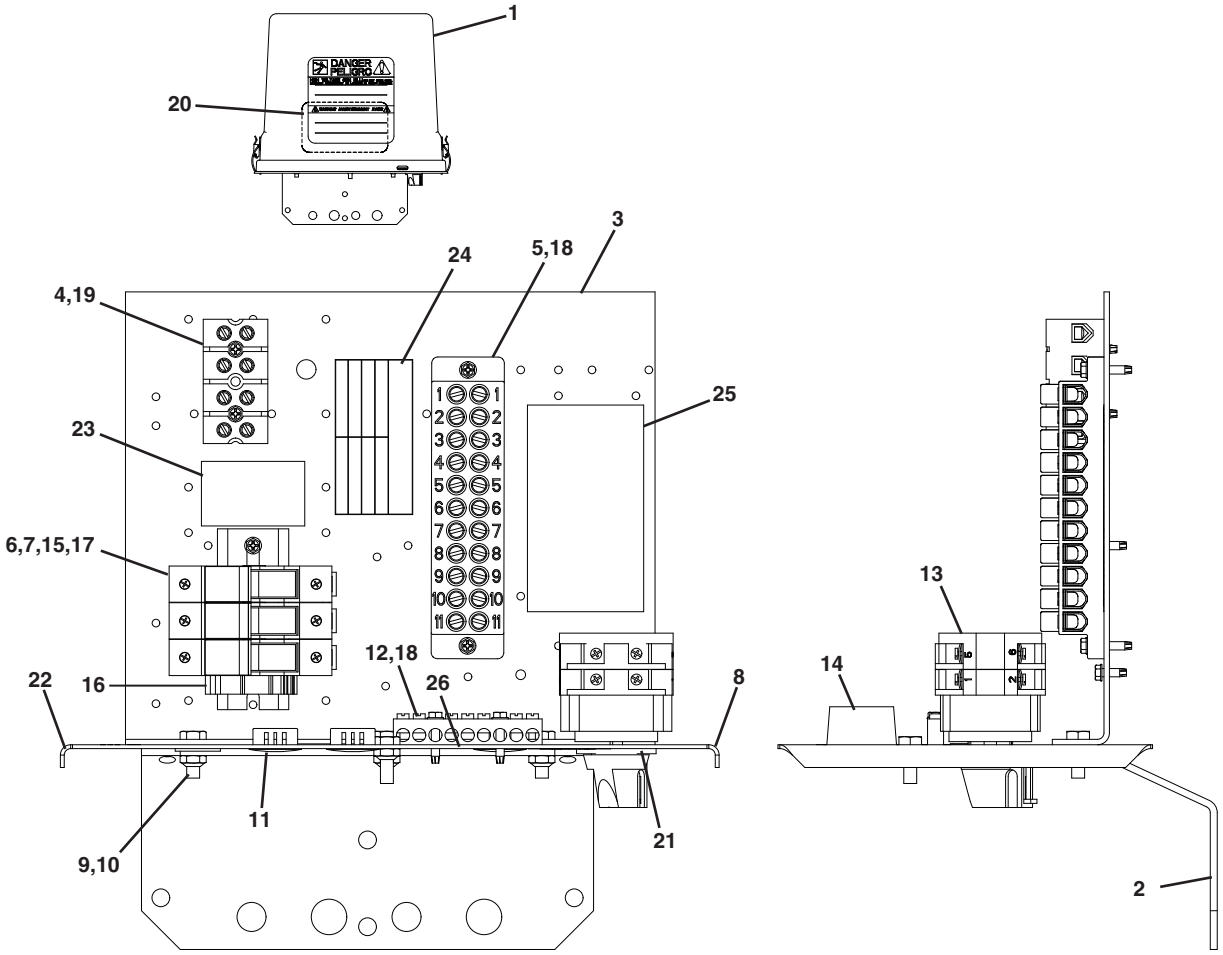
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ITEM	DESCRIPTION	PART #
1	Contactor	0314598
2	Fuseholder	0314177
3	5 Amp Fuse	0314178
4	50 VA Transformer	0315815
5	Ground Fault Relay	03E1342
6	Terminal Block	0315121
7	Ground Lug	0315120
8	Ground Fault Sensor	03E1341
9	Harness Tie	0314225

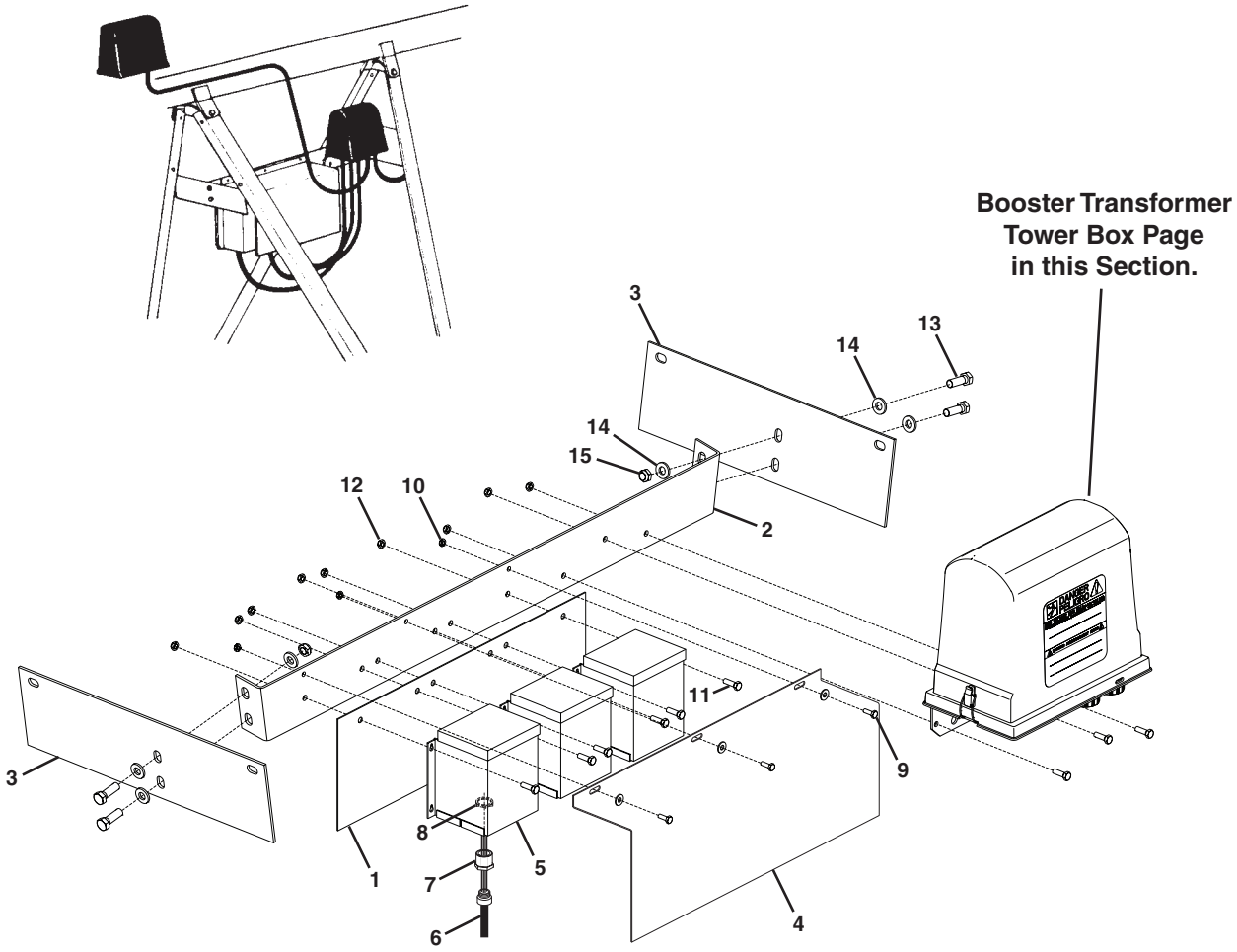
COMPLETE 30 Amp G.F.I. Junction Box 1811857

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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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