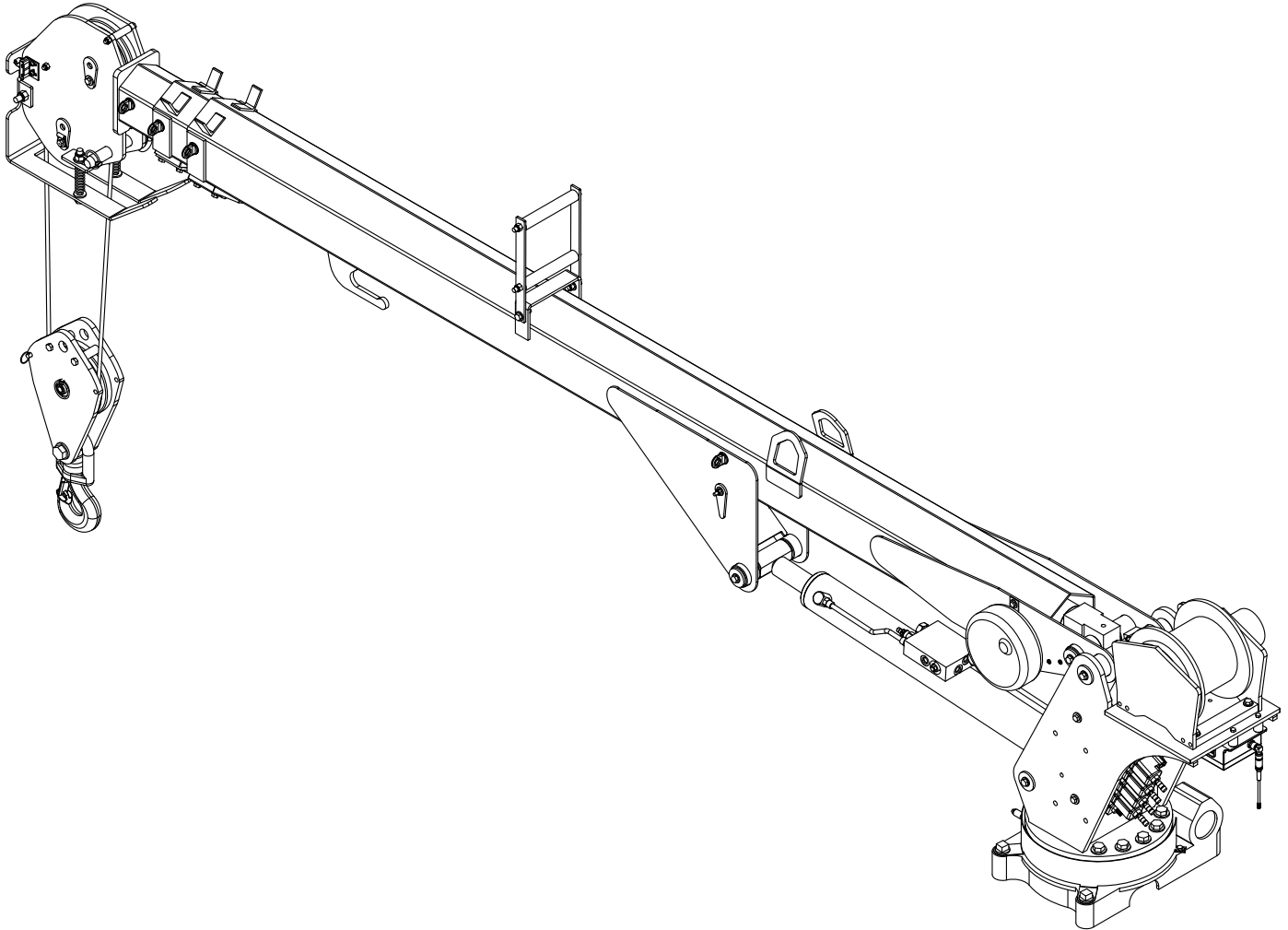




Model 4421 Telescopic Crane Owner's Manual

Installation • Assembly Drawings • Parts



**Notice: A copy of this manual must remain with the equipment at all times.
For a printable download copy, please visit: www.stellarindustries.com**

Stellar Industries, Inc.

190 State Street

PO Box 169

Garner, IA 50438

800-321-3741

Fax: 641-923-2811

www.stellarindustries.com

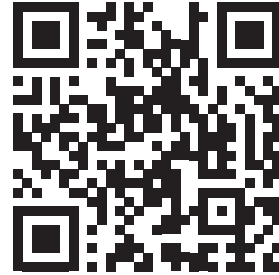
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Rev 1
PN 89644

Warning / Notice / Serial Tag Location

WARNING

Operating, maintaining, and servicing a Stellar product may expose you to chemicals including, but not limited to, engine exhaust, carbon monoxide, phthalates, and lead. These chemicals are known to the State of California to cause cancer and birth defects (or other reproductive harm). To keep your exposure to a minimum, be sure to avoid breathing exhaust and service your Stellar product in a well-ventilated area while wearing gloves or washing your hands frequently. For more information, go to www.P65Warnings.ca.gov/passenger-vehicle.



www.p65warnings.ca.gov

NOTICE

Cold Weather Performance

Although clear data on cold weather performance from every steel manufacturer is not available for all types and thicknesses of steel, Stellar Industries is confident that the weldments on our products will operate to 100% of their intended purpose to temperatures down to -40° F / C.

It is recommended if Stellar manufactured equipment needs to be used in temperatures below -40° F / C, the operator should pull the unit into a climate-controlled area and allow the weldments to warm up to and then maintain a temperature above this level.

Serial Tag Location

STELLAR [®]		DATE
PATENT INFORMATION http://www.stellarindustries.com/ip		<input type="text"/>
MODEL NO.	SERIAL NO.	
<input type="text"/>	<input type="text"/>	
MADE IN THE U.S.A. BY STELLAR INDUSTRIES, INC.		
PN C5942		

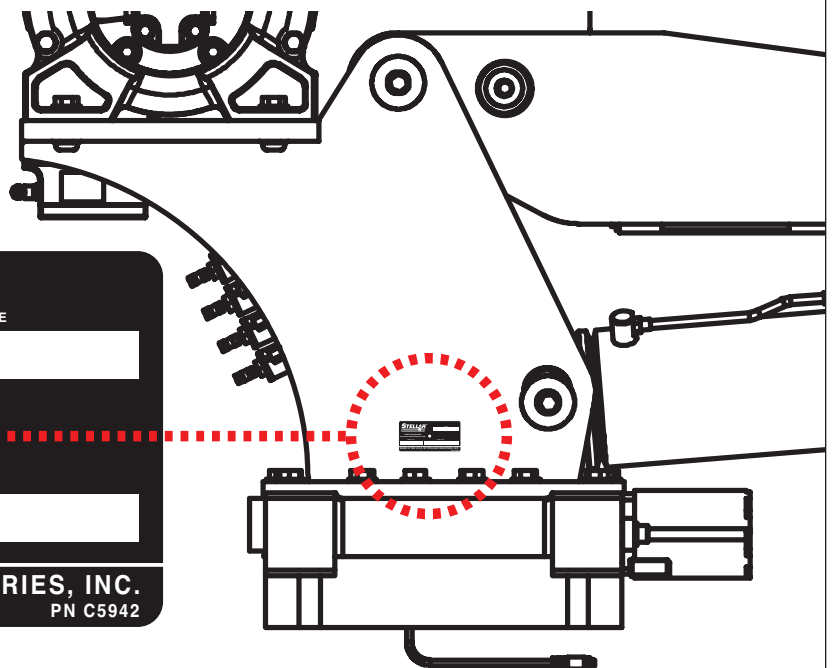


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Introduction

A copy of this manual is provided with every crane and can be found in the hard plastic manual case that is installed on the chassis. A copy of this manual shall remain with the crane at all times.

Throughout the manual, three signal words will be used to bring attention to important items:

A NOTICE signal word indicates a practice not related to physical injury.

NOTICE

A WARNING signal word indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ WARNING

A DANGER signal word indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ DANGER

Information contained within this manual does not cover operation, maintenance, or troubleshooting. Please refer to the General Light Duty Crane Manual for details on these items.

This manual is not binding. Stellar Industries, Inc. reserves the right to change, at any time, any or all of the items, components, and parts deemed necessary for product improvement or commercial/production purposes. This right is kept with no requirement or obligation for immediate mandatory updating of this manual.

In closing:

If more information is required or technical assistance is needed, or if you feel that any part of this manual is unclear or incorrect, please contact the Stellar Customer Service Department by phone at 800-321-3741 or email at service@stellarindustries.com.

**For Technical Questions, Information, Parts, or Warranty, Call Toll-Free at
800-321-3741**

Hours: Monday - Friday, 8:00 a.m. - 5:00 p.m. CST

Or email at the following addresses:

Technical Questions, and Information

service@stellarindustries.com

Order Parts

parts@stellarindustries.com

Warranty Information

warranty@stellarindustries.com

Chapter 1 - Specifications

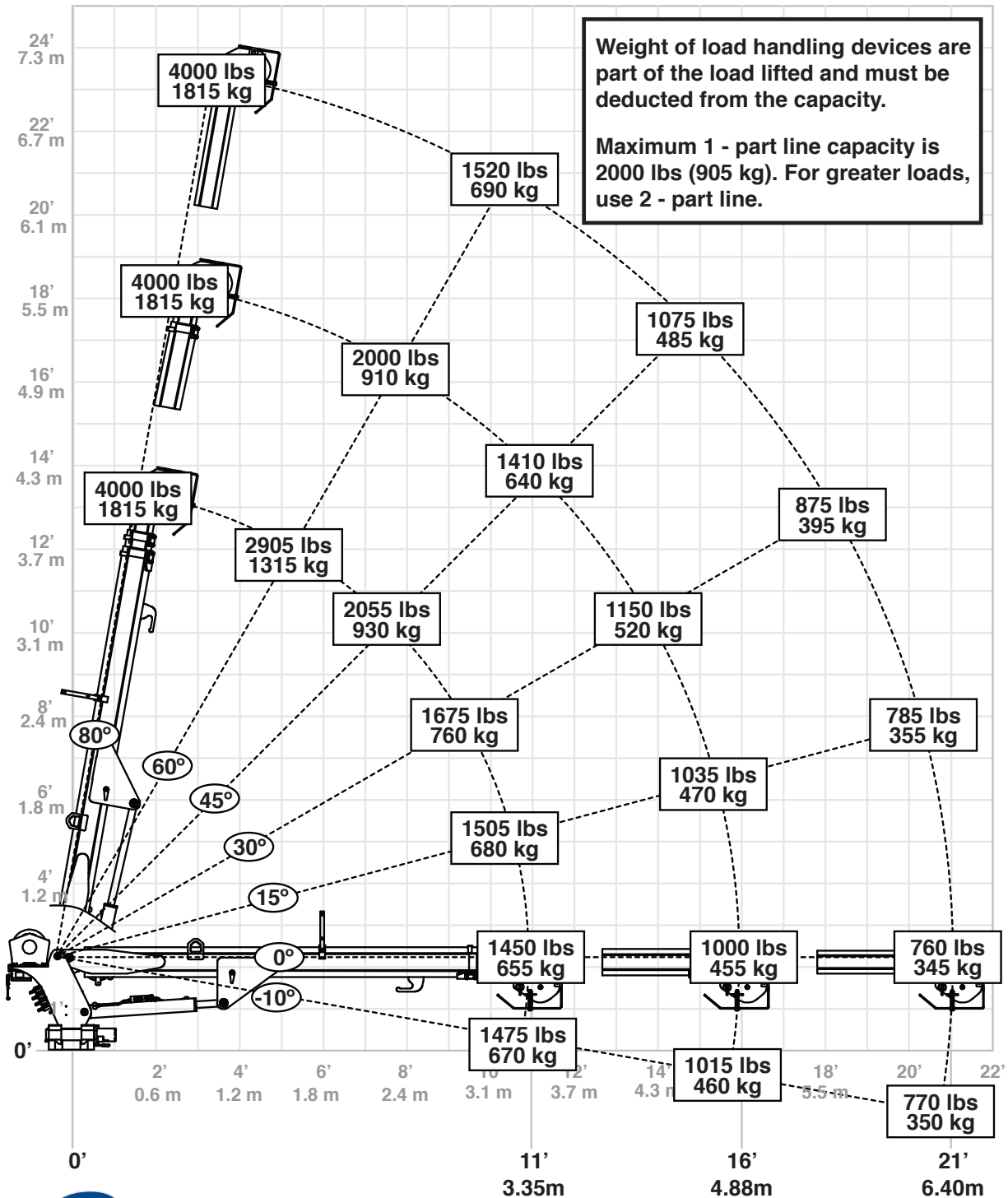
Model 4421 Specifications

Crane Rating*:	16,000 ft-lb (2.23 TM)	
Standard Boom Length:	10' 8" (3.29 m) from CL of Crane	
Boom Extension:	1st Stage: Hydraulic 60" (152.4 cm) 2nd Stage: Manual 60" (152.4 cm) / Optional Hyd.	
Maximum Horizontal Reach:	21' 0" (6.40 m) from CL of Crane	
Maximum Vertical Lift:	22' 7" (6.89 m) from Crane Base	
Stowed Height (Crane Only):	31.15" (79.12 cm)	
Required Mounting Space:	18" x 15" (45.7 x 38.1 cm)	
Approximate Crane Weight:	4421 (Electric)	2H: 1090 lbs (494 kg) 1H1M: 995 lbs (451 kg)
	4421 (Hydraulic)	2H: 990 lbs (449 kg) 1H1M: 905 lbs (411 kg)
Controls:	Radio control standard for all functions.	
Wire Rope:	5/16" (0.79 cm) 6X19 IWRC-DGXIP X 90' (27.73 m)	
Boom Elevation:	-10° to +80°	
Winch Specifications		
Line Pull Speed:	25 ft/min (7.62 m/min)	
Max. Single Part Line:	2,000 lbs (905 kg)	
Max. Double Part Line:	4,000 lbs (1,810 kg)	
Rotation (Worm Gear):	370° Power	
Lifting Capacity**:	4,000 lbs @ 4' (1810 kg @ 1.22 m) 760 lbs @ 21' (345 kg @ 6.40 m)	
Power Supply:	12V Power Unit:	2 gpm @ 2,600 psi (7.6 lpm @ 179 bar)
	PTO & Pump:	3 gpm @ 2,600 psi (11.4 lpm @ 179 bar)

*Subject to change without notification.

**Subject to change without notification.

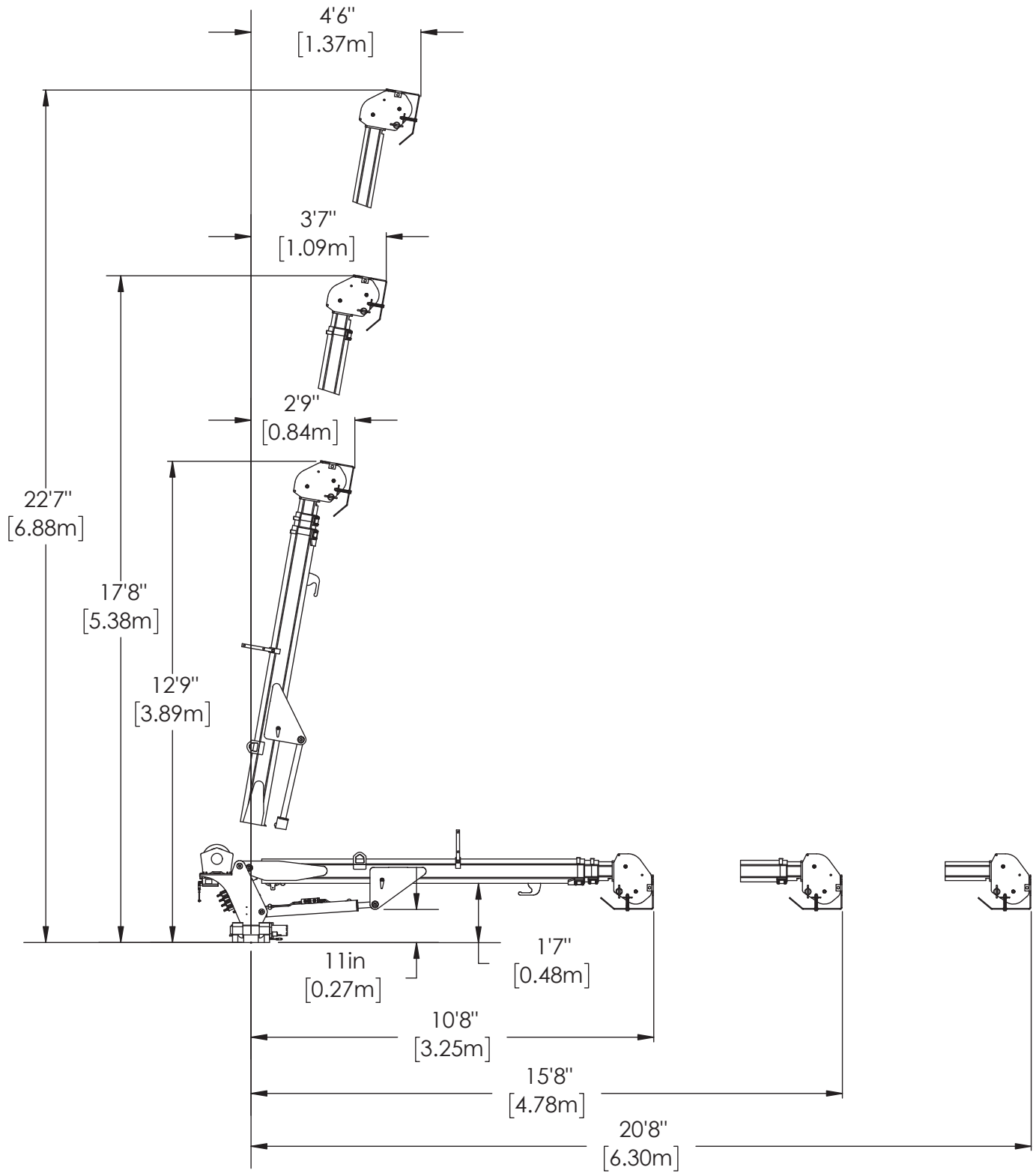
Capacity Chart - Decal PN 70301



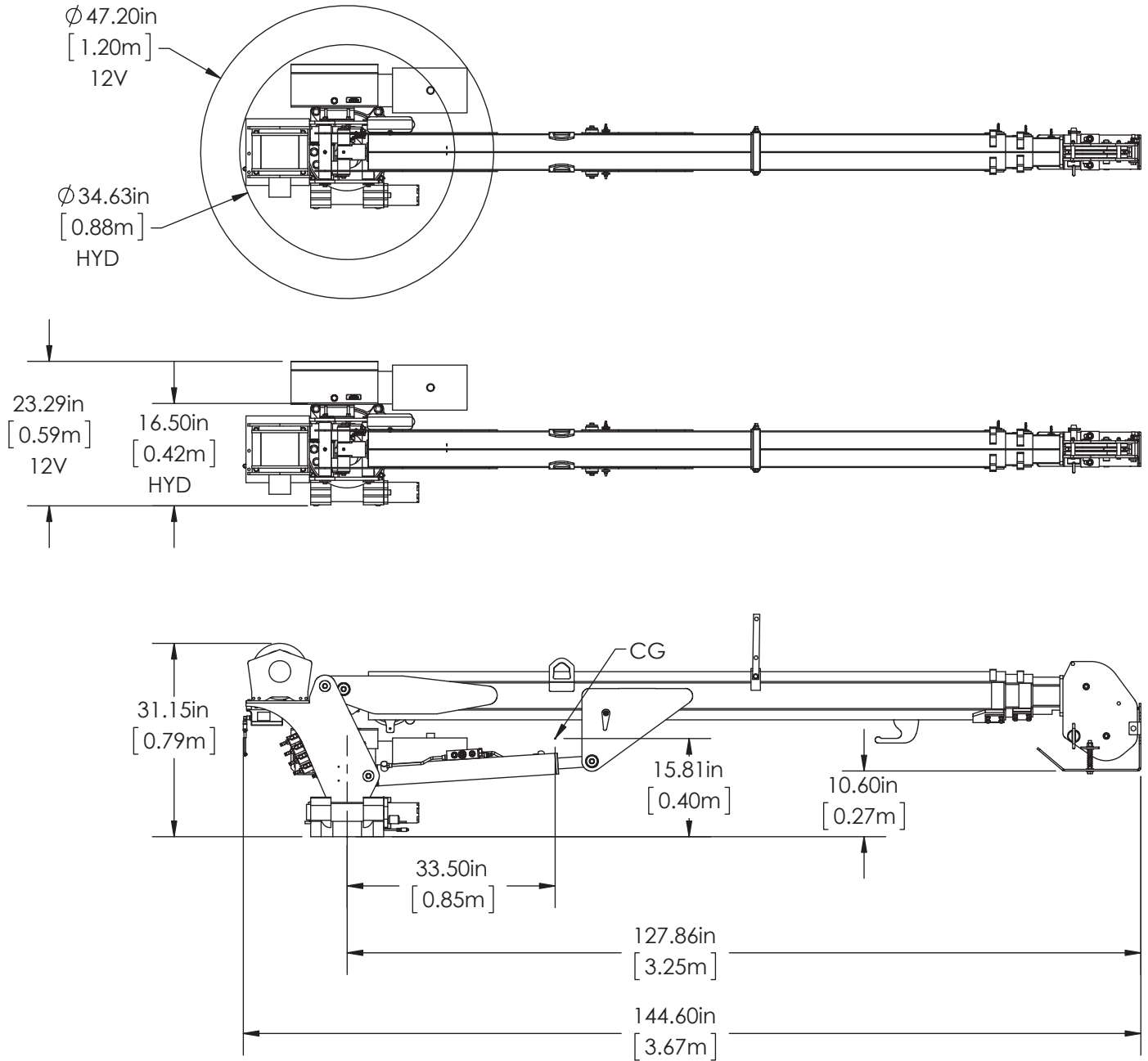
4421

PN 70301 - Rev A

Dimensional Drawing 1



Dimensional Drawing 2



Chapter 2 - Installation

General Installation

This chapter is designed to serve as a general guide for the installation of a Stellar® 4421 Crane on a Stellar® Service Body. Each installation is considered unique so certain portions of this chapter may or may not apply to your direct application. If a question should arise during the installation process, please contact Stellar® Customer Service at (800) 321 3741.

This crane is designed for use with a Stellar® Service Body installed on a vehicle that meets the minimum chassis requirements of the crane. It is the installer's responsibility to assure that the crane is mounted on a platform that will support the maximum crane rating of this crane.

⚠ WARNING Do not install this crane on a body not capable of handling the loads imposed on it. Failure to do so may result in serious injury or death.

NOTICE When installing welder units to the service bodies, it is highly recommended that a surge protector is installed on the chassis batteries to protect the crane radio receiver, wiring and other electronic devices from an unexpected electrical spike or surge. Failure to do so could result in extensive damage to the service body and crane electrical circuit.

Installer Notice

According to Federal Law (49 cfr part 571), each final-stage manufacturer shall complete the vehicle in such a manner that it conforms to the standards in effect on the date of manufacture of the incomplete vehicle, the date of final completion, or a date between those two dates. This requirement shall, however, be superseded by any conflicting provisions of a standard that applies by its terms to vehicles manufactured in two or more stages.

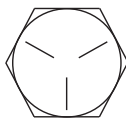
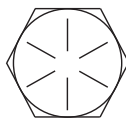
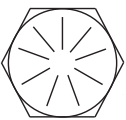
Therefore, the installer of Stellar® Cranes and Bodies is considered one of the manufacturers of the vehicle. As such a manufacturer, the installer is responsible for compliance with all applicable federal and state regulations. They are required to certify that the vehicle is in compliance with the Federal Motor Vehicle Safety Standards and other regulations issued under the National Traffic and Motor Vehicle Safety Act.

Please reference the Code of Federal Regulations, title 49 - Transportation, Volume 5 (400-999), for further information, or visit <http://www.gpoaccess.gov/nara/index.html> for the full text of Code of Federal Regulations.

Torque Data Chart

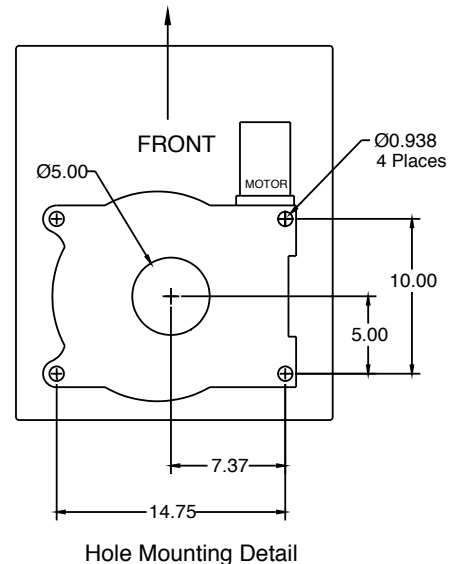
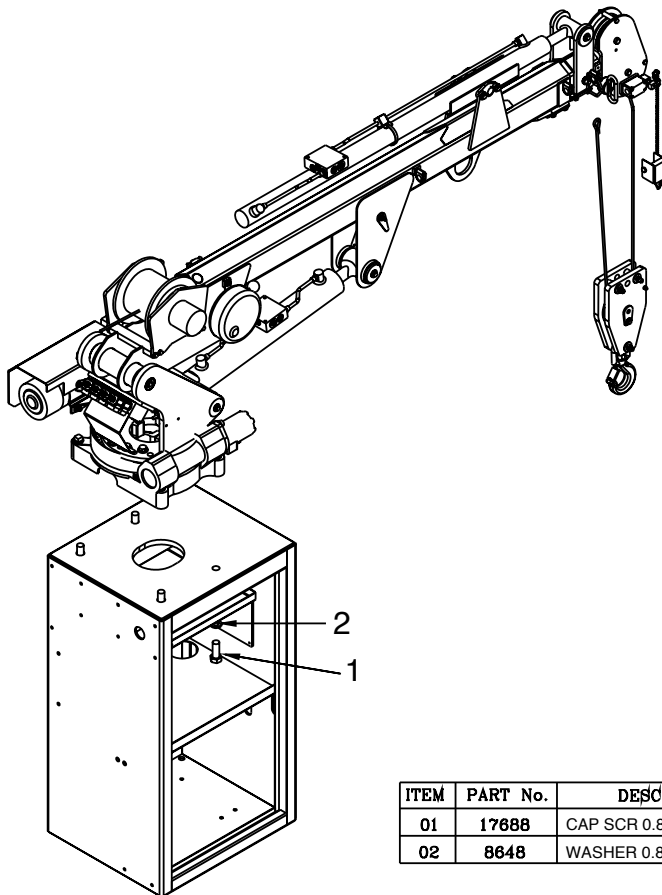
When using the torque data in the chart, the following rules should be observed:

- Bolt manufacturer's particular specifications should be consulted when provided.
- Flat washers of equal strength must be used.
- All torque measurements are given in foot-pounds. To convert to inch-pounds, multiply by 12.
- Torque values specified are for bolts with residual oils or no special lubricants applied. If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphite, colloidal copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.
- Torque values for socket-head capscrews are the same as for Grade 8 capscrews.
- Do not use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.
- Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.
- Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.
- Tighten plastic insert or crimped steel-type lock nuts to approximately 110 percent of the dry torque values shown in the chart below, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value. *Note: "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without lubrication. Tighten lubricated bolts to approximately 80% of dry bolts.*

		GRADE 5		GRADE 8		GRADE 9
						
Size (DIA-TPI)	Bolt DIA (Inches)	Plain (Ft-Lb)	Plated (Ft-Lb)	Plain (Ft-Lb)	Plated (Ft-Lb)	Plated (Ft-Lb)
5/16-18	0.3125	17	13	25	18	22
3/8-16	0.3750	31	23	44	33	39
7/16-14	0.4375	49	37	70	52	63
1/2-13	0.5000	75	57	105	80	96
9/16-12	0.5625	110	82	155	115	139
5/8-11	0.6250	150	115	220	160	192
3/4-10	0.7500	265	200	375	280	340
7/8-9	0.8750	395	295	605	455	549
1-8	1.000	590	445	910	680	823
1 1/8-7	1.1250	795	595	1290	965	1167
1 1/4-7	1.2500	1120	840	1815	1360	1646
1 3/8-6	1.3750	1470	1100	2380	1780	2158
1 1/2-6	1.500	1950	1460	3160	2370	2865

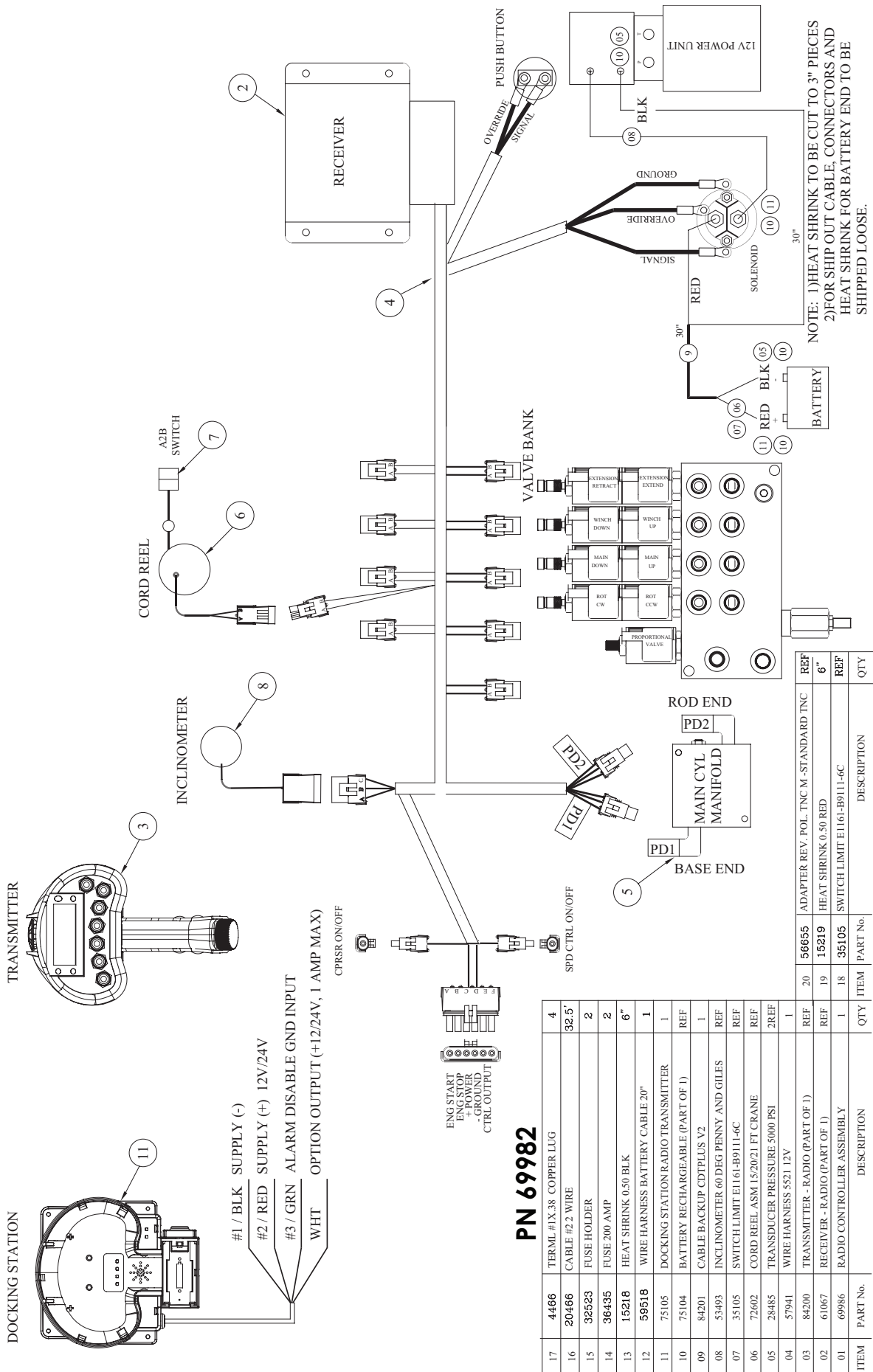
Installation Overview

1. Determine that the mounting location for the 4421 is at least 18" x 15" (45.7 x 38.1 cm).
2. Use the detail below to drill .938" diameter holes into the mounting plate. Run tap on the threads of the base to be sure they are clean.
3. Use a crane or lifting device capable of lifting the weight of the Stellar® Crane. The 4421 weighs approximately 1,025 lbs (465 kg) to 1,155 lbs (524 kg) - See specs page for your specific model. **Note: Cranes are shipped with rotation positioned at 180 degrees from normal stowed travel position (See photo above).** This will allow for easy installation of the crane and permanent connection of all hydraulic and electrical components prior to repositioning into the crane saddle.
4. Connect straps or chain from the lifting device to the lifting rings on the 4421.
5. Use four (4) 7/8 x 2 1/4 #8 bolts and four (4) #8 flat washers.
6. Install a washer on each bolt.
7. Apply Loctite Thread locker #277 to the bolts.
8. Using the lifting device, lower the 4421 just above the crane compartment and start the bolts. Have someone assist in leveling the crane. **Note: the rotation motor should be to the door side of crane compartment and the boom should be extended back over the rear bumper.**
9. Secure the crane using the mounting hardware provided. **Note: longer or shorter cap screws may be required – recommended thread engagement into crane base is 1.00" – use grade 8, zinc plated cap screws only.**
10. Torque the cap screws to 454 ft-lbs.
11. Remove supporting crane.
12. Hook-up hydraulics and electrical using the schematics provided in this chapter.



ITEM	PART No.	DESCRIPTION	QTY
01	17688	CAP SCR 0.88-9x2.25 HHGR8	4
02	8648	WASHER 0.88 SAE GR8	4

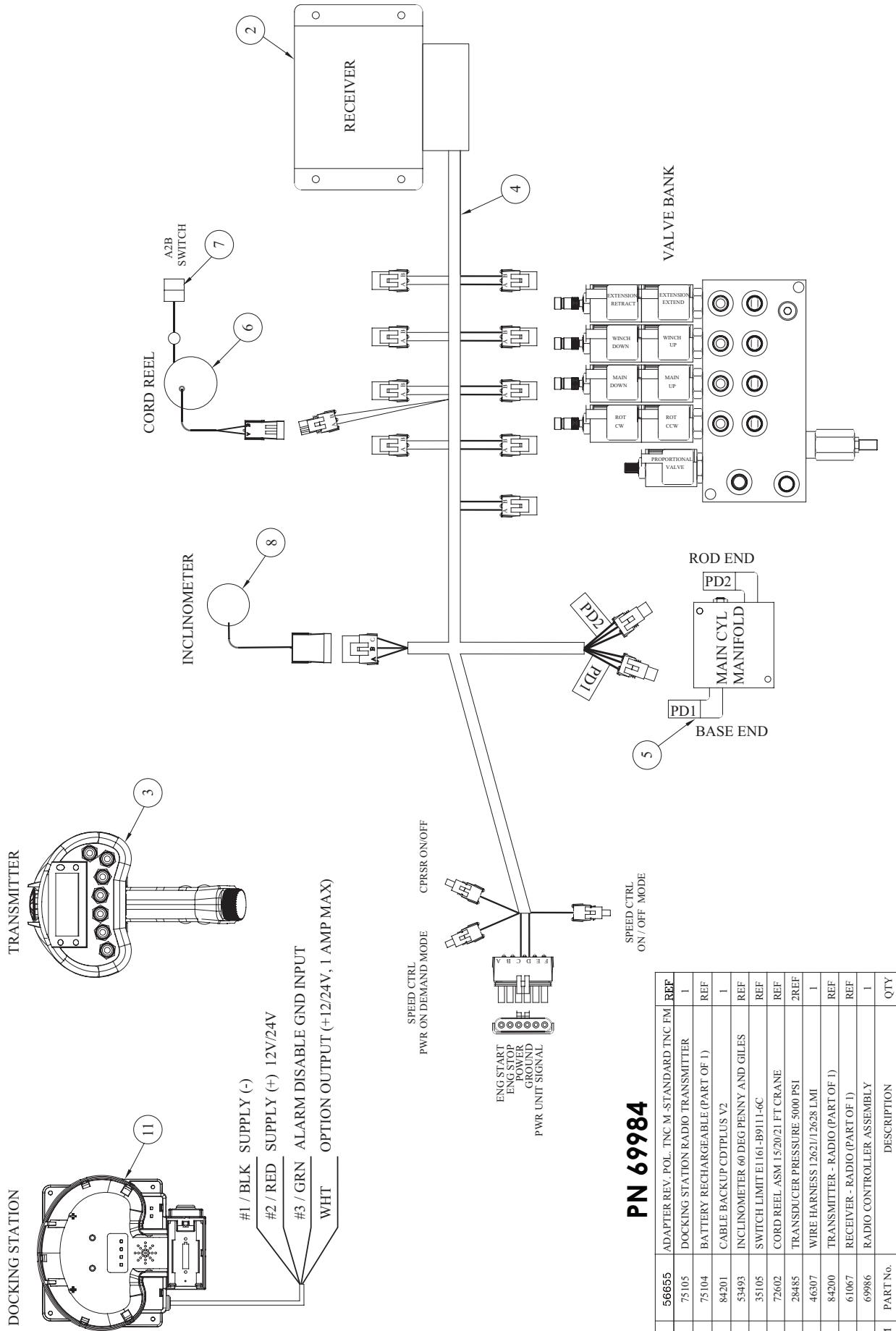
Control Kit (12V CDT Non-Boost) - PN 69982



PN 69982

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
17	4466	TERML #IX-38 COPPER LUG	4	17	56655	ADAPTER REV. POL. TNC M-STANDARD INC	REF
16	20466	CABLE #2.2 WIRE	32.5'	19	15219	HEAT SHRINK 0.50 RED	6"
15	32523	FUSE HOLDER	2	REF	35105	SWITCH LIMIT E1161-B9111-6C	REF
14	36435	FUSE 200 AMP	2	18	35105	SWITCH LIMIT E1161-B9111-6C	REF
13	15218	HEAT SHRINK 0.50 BLK	6"	1			
12	59518	WIRE HARNESS BATTERY CABLE 20"	1				
11	75105	DOCKING STATION RADIO TRANSMITTER	1				
10	75104	BATTERY RECHARGEABLE (PART OF 1)	REF				
09	84201	CABLE BACKUP CDTPLUS V2	1				
08	53493	INCLINOMETER 60 DEG PENNY AND GILES	REF				
07	35105	SWITCH LIMIT E1161-B9111-6C	REF				
06	72602	CORD REEL ASM 15/20/21 FT CRANE	REF				
05	28485	TRANSDUCER PRESSURE 5000 PSI	2REF				
04	57941	WIRE HARNESS 5521 12V	1				
03	84200	TRANSMITTER - RADIO (PART OF 1)	REF				
02	61067	RECEIVER - RADIO (PART OF 1)	REF				
01	69986	RADIO CONTROLLER ASSEMBLY	1				

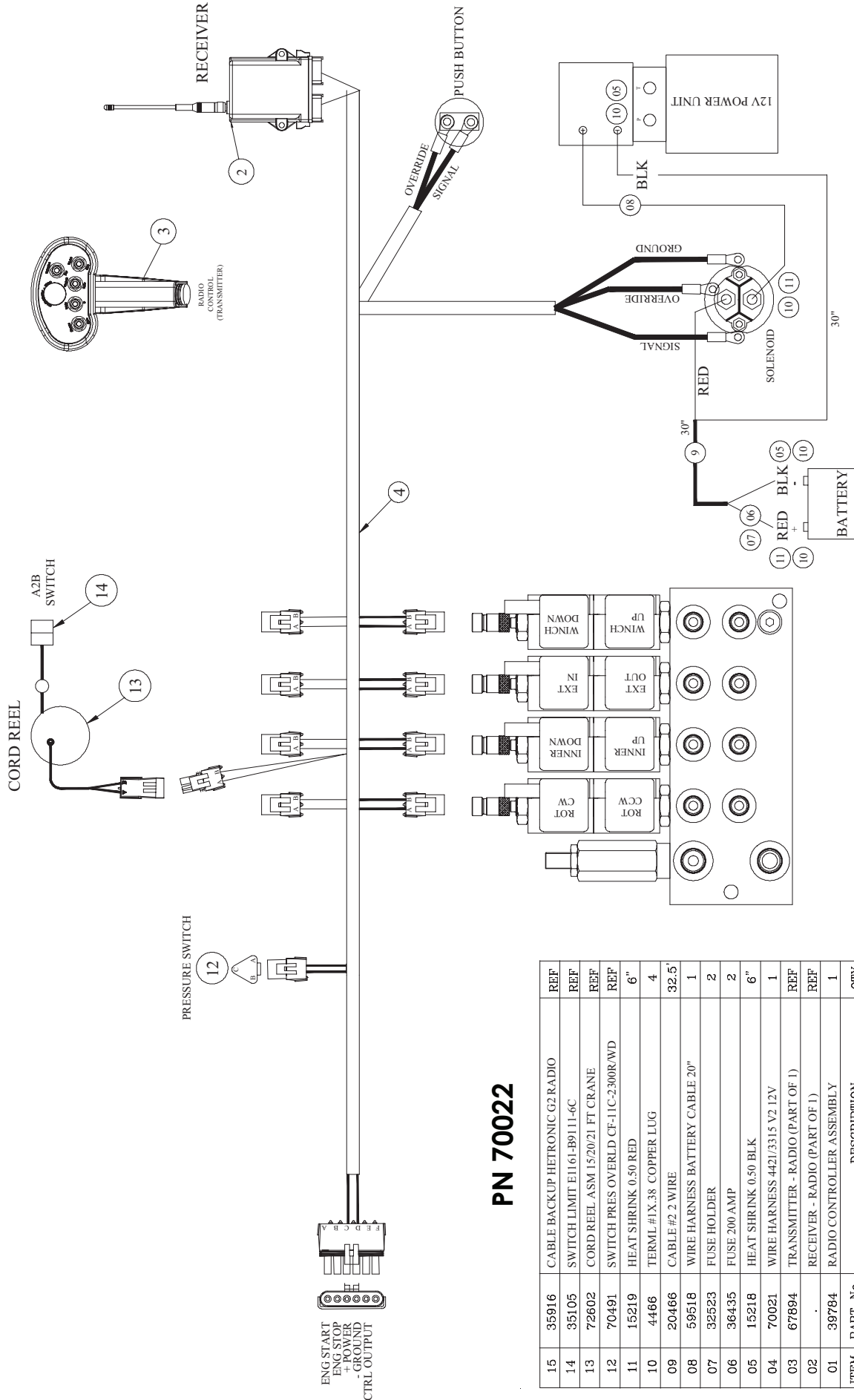
Control Kit (Cradle CDT Non-Boost) - PN 69984



PN 69984

ITEM	PART No.	DESCRIPTION	QTY
12	56655	ADAPTER REV. POL. TNC M - STANDARD TNC FM	REF
11	75105	DOCKING STATION RADIO TRANSMITTER	1
10	75104	BATTERY RECHARGEABLE (PART OF 1)	REF
09	84201	CABLE BACKUP CDTPLUS V2	1
08	53493	INCLINOMETER 60 DEG PENNY AND GILLES	REF
07	35105	SWITCH LIMIT E1161-B9111-6C	REF
06	72602	CORD REEL ASM 15/20/21 FT CRANE	REF
05	28485	TRANSDUCER PRESSURE 5000 PSI	2REF
04	46307	WIRE HARNESS 12621/12628 LMI	1
03	84200	TRANSMITTER - RADIO (PART OF 1)	REF
02	61067	RECEIVER - RADIO (PART OF 1)	REF
01	69986	RADIO CONTROLLER ASSEMBLY	1

Control Kit (V2 Cradle 12V) - PN 70022



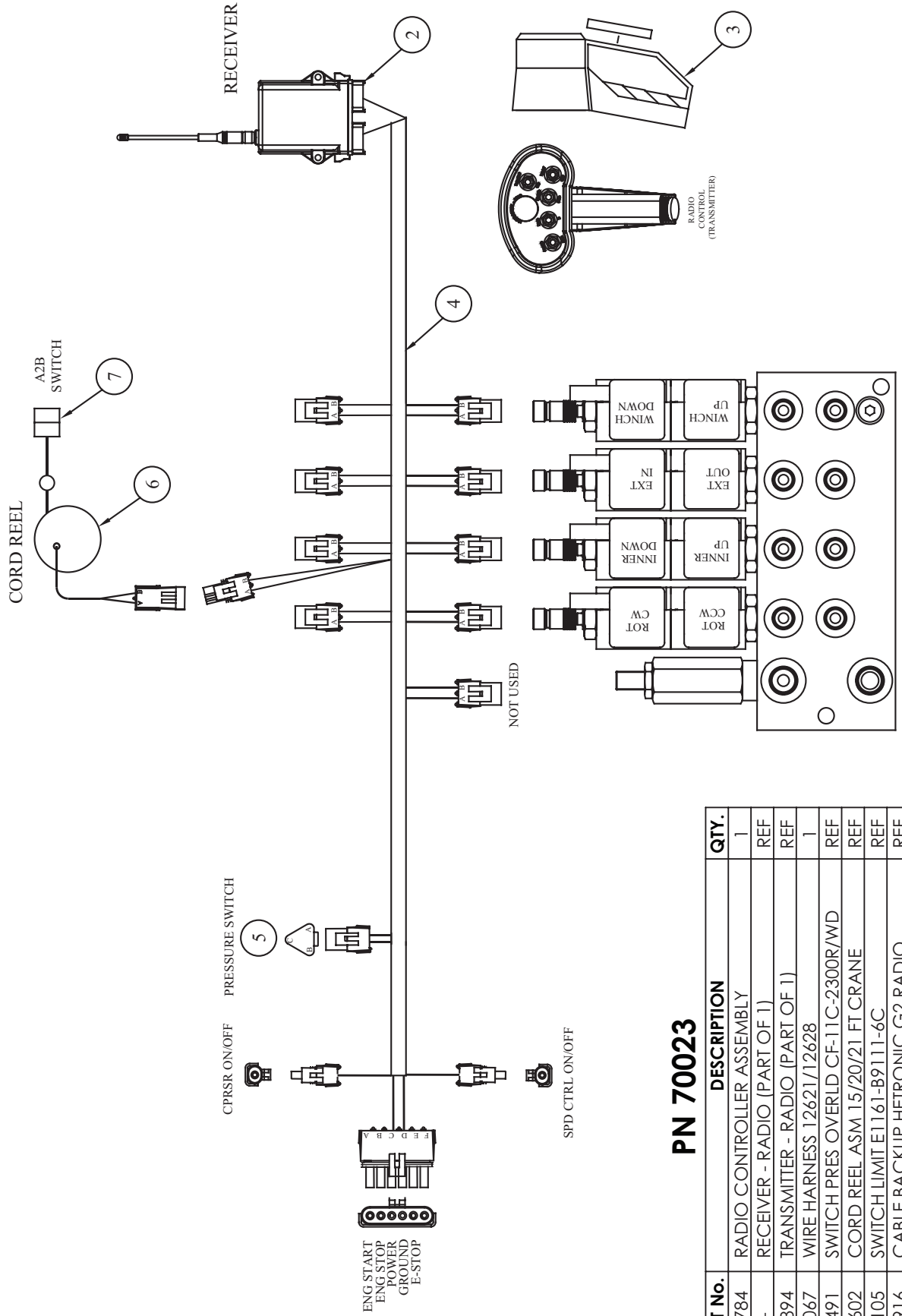
PN 70022

ITEM	PART No.	DESCRIPTION	QTY
15	35916	CABLE BACKUP HETRONIC G2 RADIO	REF
14	35105	SWITCH LIMIT E1161-B9111-6C	REF
13	72602	CORD REEL ASM 15/20/21 FT CRANE	REF
12	70491	SWITCH PRES OVERLID CF-11C-2300R/WD	REF
11	15219	HEAT SHRINK 0.50 RED	6"
10	4466	TERML #IX-38 COPPER LUG	4
09	20466	CABLE #2 2 WIRE	32.5'
08	59518	WIRE HARNESS BATTERY CABLE 20"	1
07	32523	FUSE HOLDER	2
06	36435	FUSE 200 AMP	2
05	15218	HEAT SHRINK 0.50 BLK	6"
04	70021	WIRE HARNESS 4421/3315 V2 12V	1
03	67894	TRANSMITTER - RADIO (PART OF 1)	REF
02	.	RECEIVER - RADIO (PART OF 1)	REF
01	39784	RADIO CONTROLLER ASSEMBLY	1
		DESCRIPTION	

NOTE:

1. HEAT SHRINK TO BE CUT TO 3" PIECES
2. FOR SHIP OUT CABLE, CONNECTORS AND HEAT SHRINK FOR BATTERY END TO BE SHIPPED LOOSE.

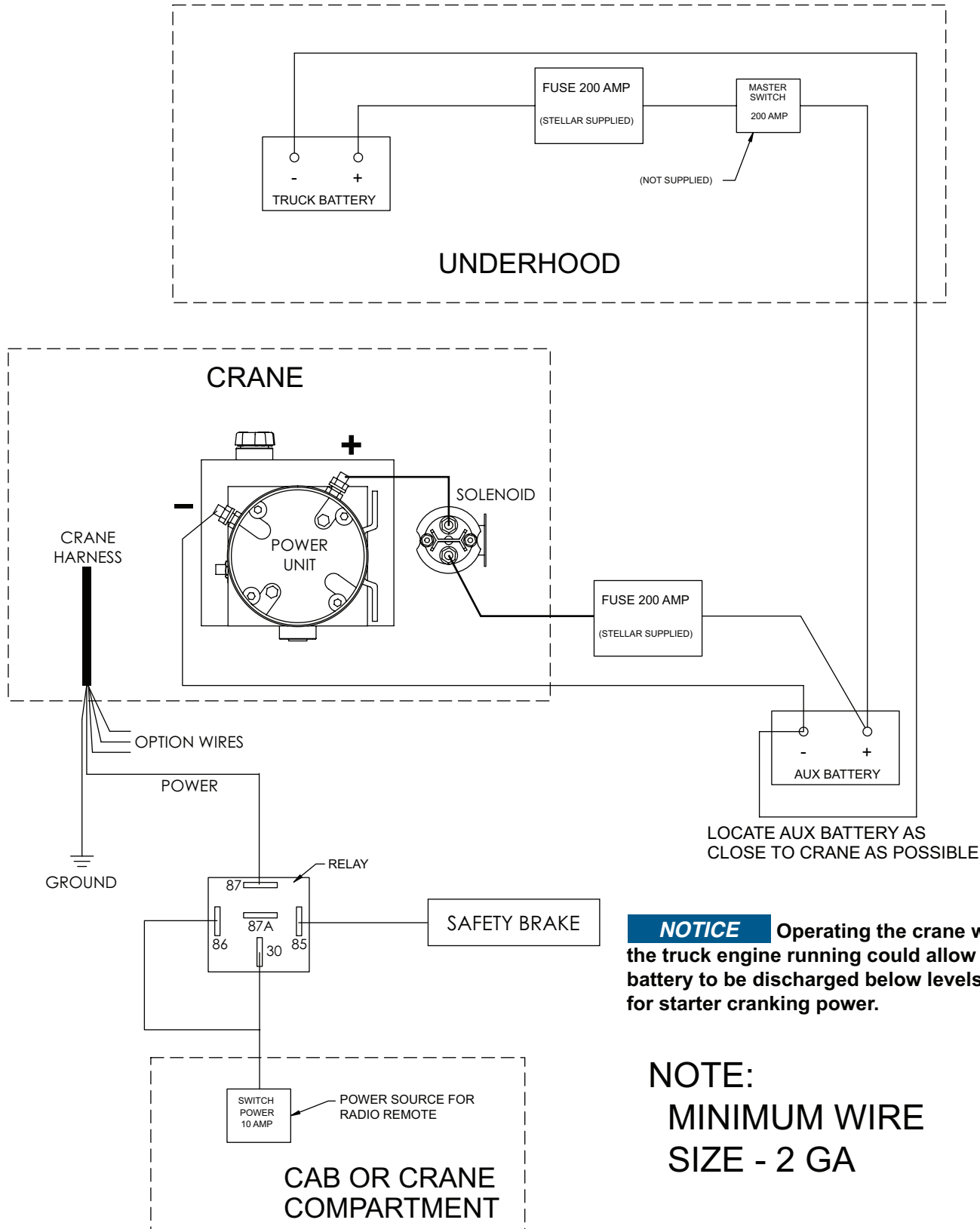
Control Kit (V2 Cradle) - PN 70023



PN 70023

ITEM	PART NO.	DESCRIPTION	QTY.
1	39784	RADIO CONTROLLER ASSEMBLY	1
2	-	RECEIVER - RADIO (PART OF 1)	REF
3	67894	TRANSMITTER - RADIO (PART OF 1)	REF
4	44067	WIRE HARNESS 12621/12628	1
5	70491	SWITCH PRES OVERLD CF-11 C-2300R/WD	REF
6	72602	CORD REEL ASM 15/20/21 FT CRANE	REF
7	35105	SWITCH LIMIT E1161-B9111-6C	REF
8	35916	CABLE BACKUP HETRONIC G2 RADIO	REF

Wiring Diagram (Electrical Version)

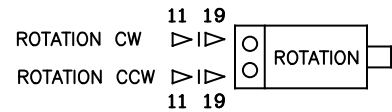
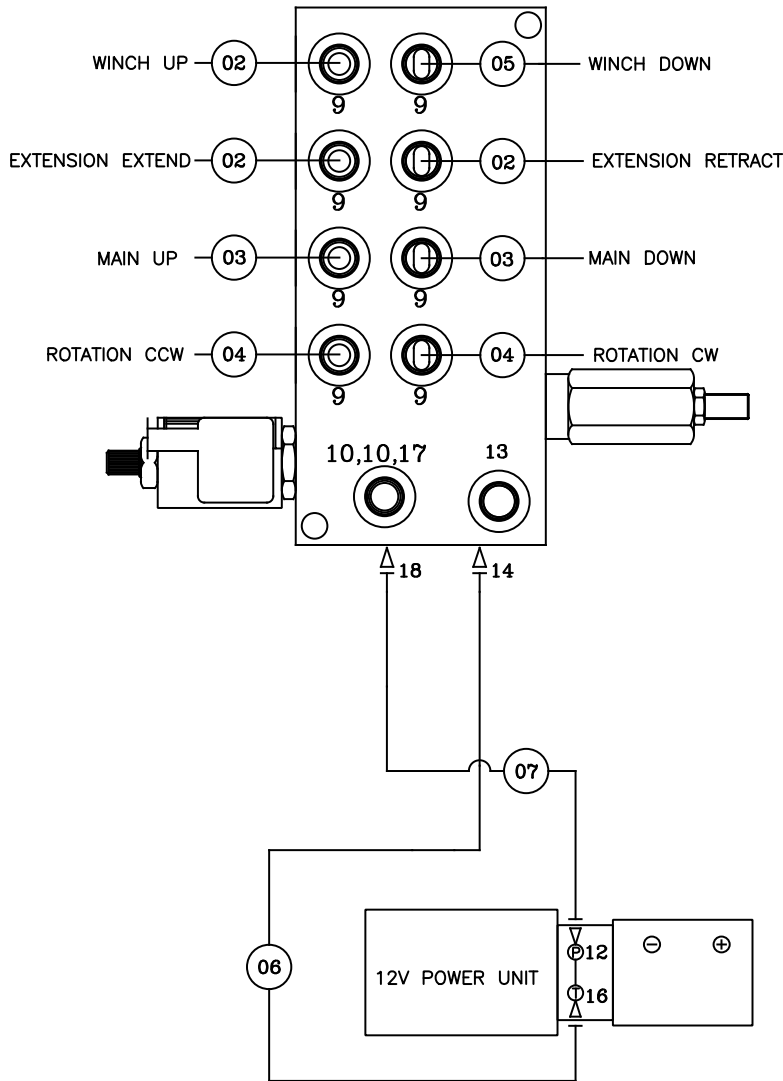


NOTICE Operating the crane without the truck engine running could allow the truck battery to be discharged below levels required for starter cranking power.

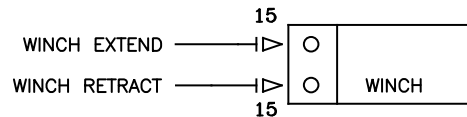
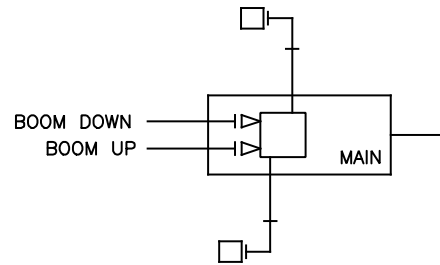
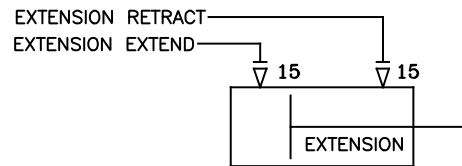
NOTE:
MINIMUM WIRE
SIZE - 2 GA

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Hydraulic Kit (V2 12V CDT) - PN 70005



NOTE: USE 32" OF HOSE PROTECTOR P/N 4043 OVER THE ROTATION HOSES



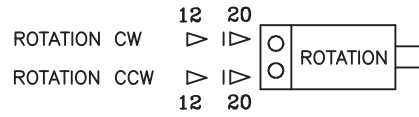
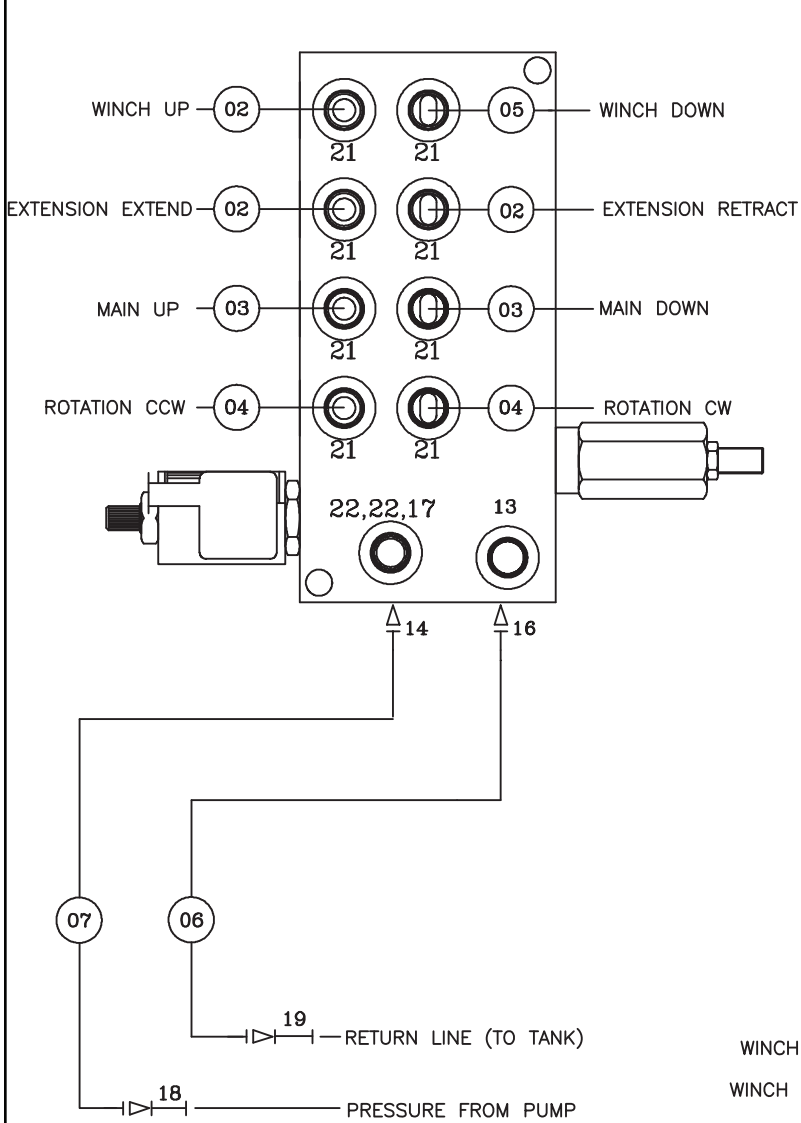
NOTE: USE 12" OF HOSE PROTECTOR P/N 4043 OVER THE 2 WINCH HOSES

Hydraulic Kit (V2 12V CDT) - PN 70005 Parts List

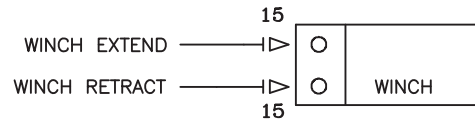
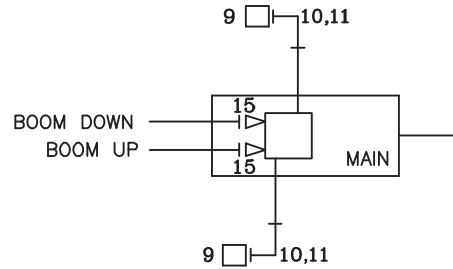
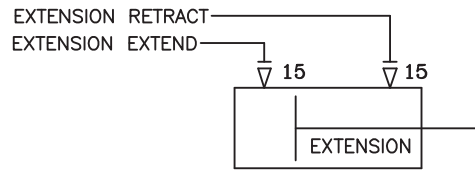
PN 70005			
ITEM	PART	DESCRIPTION	QTY
01	70007	HOSE KIT 4421/3315 V2 12V (INCL:2-7)	1
02	70009	HOSE-HYD .25 X 17	3REF
03	70010	HOSE-HYD .25 X 22.50	2REF
04	21158	HOSE-HYD .25 X 34	2REF
05	70011	HOSE-HYD .25 X 19	1REF
06	70020	HOSE-HYD .38 X 29	1REF
07	13438	HOSE-HYD .25 X 26	1REF
08	4043	HOSE PROTECTOR 0.50 AS-B-17	44"
09	D1291	FTG 4-4 MFS-MORB STRAIGHT	8
10	51817	FTG 4-4 MAORB-FORB 90	2
11	C1198	FTG 4-4 MFS-MAORB 90	2
12	3338	FTG 4-6 MFS-MAORB 90	1
13	D0511	FTG 4 MORB PLUG HOLLOW HEX	1
14	D1193	FTG 6-6 MFS-MAORB 45	1
15	C4922	FTG 4-6 MFS-MORB STRAIGHT	4
16	C0338	FTG 6-6 MFS-MAORB 90	1
17	39780	GAUGE OIL LF 2.5 0-5000 CBM SAE	1
18	D1190	FTG 4-6 MFS-MAORB 45	1
19	55833	FTG 10-4 MORB-FORB STRAIGHT REDUCER	2
REV. D			

NOTES:
HARDWARE KIT: 115664

Hydraulic Kit - PN 70006



NOTE: USE 32" OF HOSE PROTECTOR P/N 4043 OVER THE ROTATION HOSES



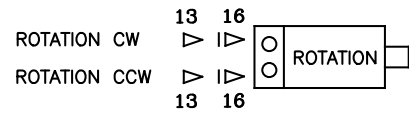
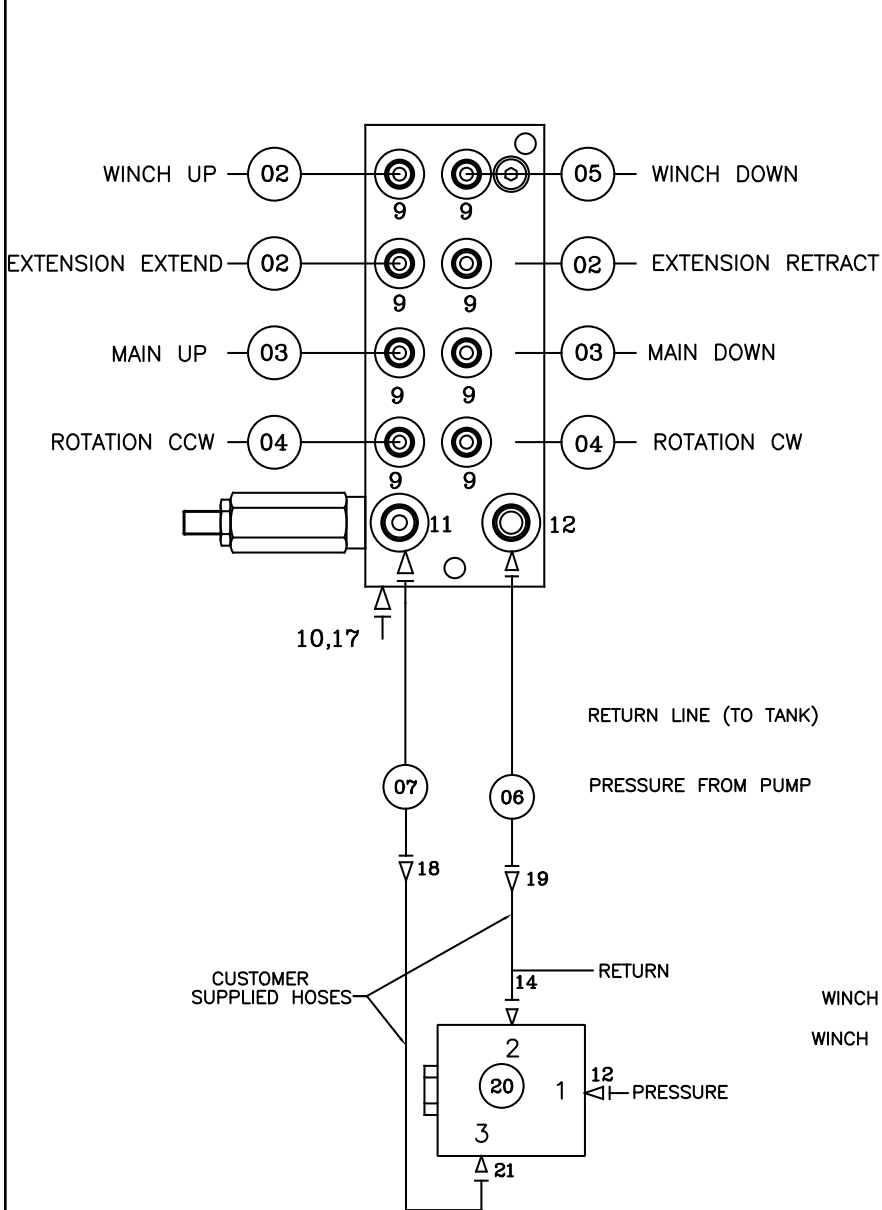
NOTE: USE 12" OF HOSE PROTECTOR P/N 4043 OVER THE 2 WINCH HOSES

Hydraulic Kit - PN 70006 Parts List

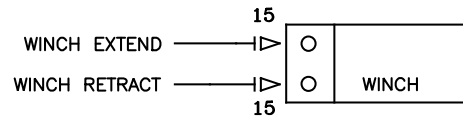
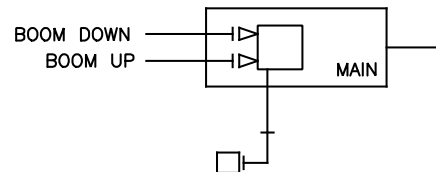
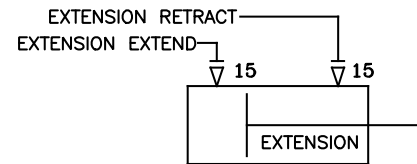
PN 70006			
ITEM	PART	DESCRIPTION	QTY
01	70008	HOSE KIT 4421/3315 V2 (INCL:2-7)	1
02	70009	HOSE-HYD .25 X 17	3REF
03	70010	HOSE-HYD .25 X 22.50	2REF
04	21158	HOSE-HYD .25 X 34	2REF
05	70011	HOSE-HYD .25 X 19	1REF
06	70779	HOSE-HYD .38 X 9	1REF
07	70012	HOSE-HYD .25 X 9	1REF
08	4043	HOSE PROTECTOR 0.50 AS-B-17	44"
09	D1291	FTG 4-4 MFS-MORB STRAIGHT	8
10	51817	FTG 4-4 MAORB-FORB 90	2
11	C1198	FTG 4-4 MFS-MAORB 90	2
12	55833	FTG 10-4 MORB-FORB STRAIGHT REDUCER	2
13	D0511	FTG 4 MORB PLUG HOLLOW HEX	1
14	D1190	FTG 4-6 MFS-MAORB 45	1
15	C4922	FTG 4-6 MFS-MORB STRAIGHT	4
16	D1193	FTG 6-6 MFS-MAORB 45	1
17	39780	GAUGE OIL LF 2.5" 0-5000 CBM	1
18	32302	FTG 4-4 MFS-MFS SWIVEL STRAIGHT	1
19	12171	FTG 6-6 MFS-MFS SWIVEL STRAIGHT	1
REV. D			

NOTE:
HARDWARE KIT: 115665.

Hydraulic Kit - PN 70018



NOTE: USE 32" OF HOSE PROTECTOR P/N 4043 OVER THE ROTATION HOSES



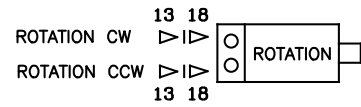
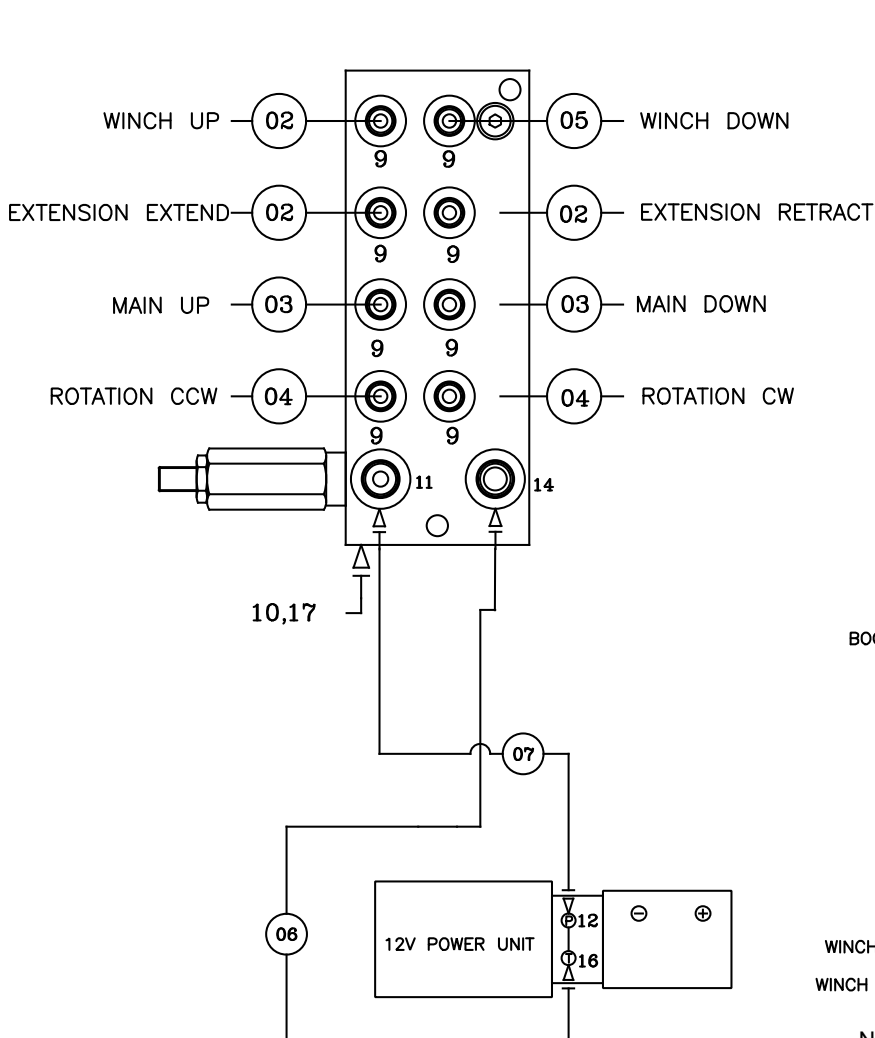
NOTE: USE 12" OF HOSE PROTECTOR P/N 4043 OVER THE 2 WINCH HOSES

Hydraulic Kit - PN 70018 Parts List

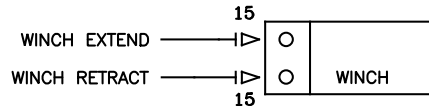
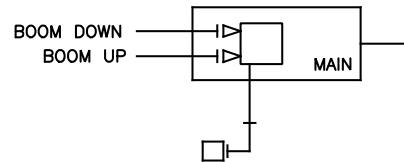
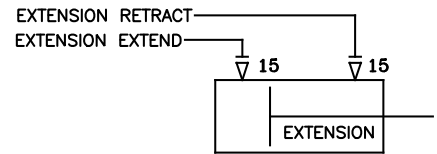
PN 70018			
ITEM	PART	DESCRIPTION	QTY
01	70008	HOSE KIT 4421/3315 V2 (INCL:2-7)	1
02	70009	HOSE-HYD .25 X 17	3REF
03	70010	HOSE-HYD .25 X 22.50	2REF
04	21158	HOSE-HYD .25 X 34	2REF
05	70011	HOSE-HYD .25 X 19	1REF
06	70779	HOSE-HYD .38 X 9	1REF
07	70012	HOSE-HYD .25 X 9	1REF
08	4043	HOSE PROTECTOR 0.50 AS-B-17	44"
09	D1291	FTG 4-4 MFS-MORB STRAIGHT	8
10	51817	FTG 4-4 MAORB-FORB 90	1
11	3338	FTG 4-6 MFS-MAORB 90	1
12	C0338	FTG 6-6 MFS-MAORB 90	2
13	C1198	FTG 4-4 MFS-MAORB 90	2
14	C2345	FTG 6-6-6 MFS-MFS-MAORB TEE	1
15	C4922	FTG 4-6 MFS-MORB STRAIGHT	4
16	55833	FTG 10-4 MORB-FORB STRAIGHT REDUCER	2
17	39780	GAUGE OIL LF 2.5" 0-5000 CBM	1
18	32302	FTG 4-4 MFS-MFS SWIVEL STRAIGHT	1
19	12171	FTG 6-6 MFS-MFS SWIVEL STRAIGHT	1
20	26196	VALVE FLW CTRL/PR FRCA-XAN-ECI-3GPM	1
21	0279	FTG 6-6 MFS-MORB STRAIGHT	1
REV. D			

NOTE:
HARDWARE KIT: 115667.

Hydraulic Kit - PN 70019



NOTE: USE 32" OF HOSE PROTECTOR P/N 4043 OVER THE ROTATION HOSES



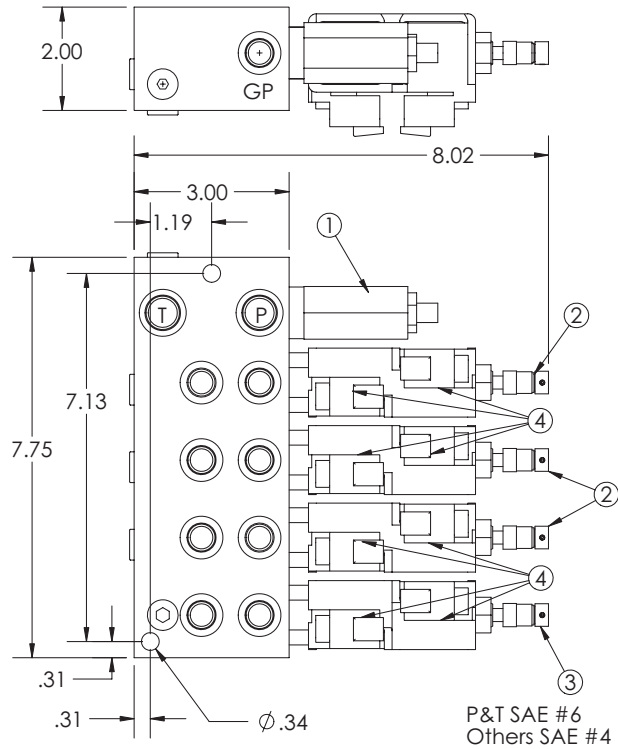
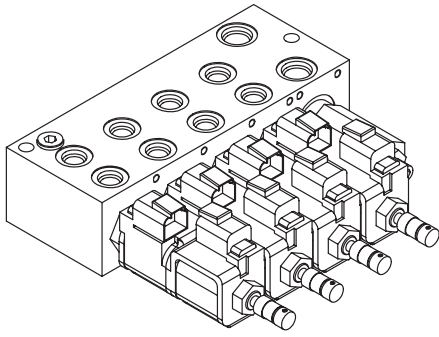
NOTE: USE 12" OF HOSE PROTECTOR P/N 4043 OVER THE 2 WINCH HOSES

Hydraulic Kit - PN 70019

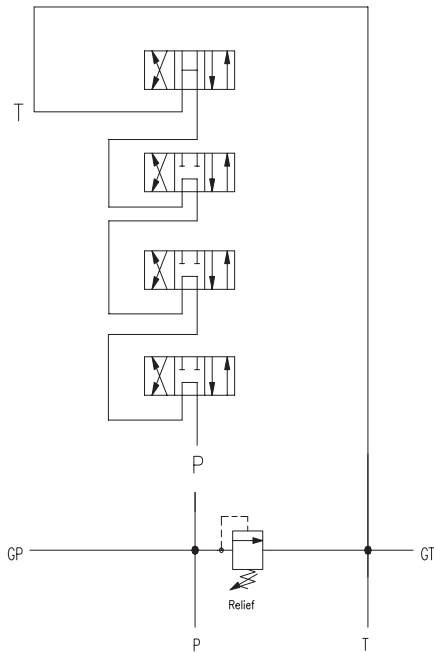
PN 70019			
ITEM	PART	DESCRIPTION	QTY
01	70007	HOSE KIT 4421/3315 V2 12V (INCL:2-7)	1
02	70009	HOSE-HYD .25 X 17	3REF
03	70010	HOSE-HYD .25 X 22.50	2REF
04	21158	HOSE-HYD .25 X 34	2REF
05	70011	HOSE-HYD .25 X 19	1REF
06	70020	HOSE-HYD .38 X 29	1REF
07	13438	HOSE-HYD .25 X 26	1REF
08	4043	HOSE PROTECTOR 0.50 AS-B-17	44"
09	D1291	FTG 4-4 MFS-MORB STRAIGHT	8
10	51817	FTG 4-4 MAORB-FORB 90	1
11	D1190	FTG 4-6 MFS-MAORB 45	1
12	3338	FTG 4-6 MFS-MAORB 90	1
13	C1198	FTG 4-4 MFS-MAORB 90	2
14	D1193	FTG 6-6 MFS-MAORB 45	2
15	C4922	FTG 4-6 MFS-MORB STRAIGHT	4
16	C0338	FTG 6-6 MFS-MAORB 90	1
17	39780	GAUGE OIL LF 2.5 0-5000 CBM SAE	1
18	55833	FTG 10-4 MORB-FORB STRAIGHT REDUCER	2
REV. D			

NOTE:
HARDWARE KIT: 115666.

Valve Bank - PN 50591



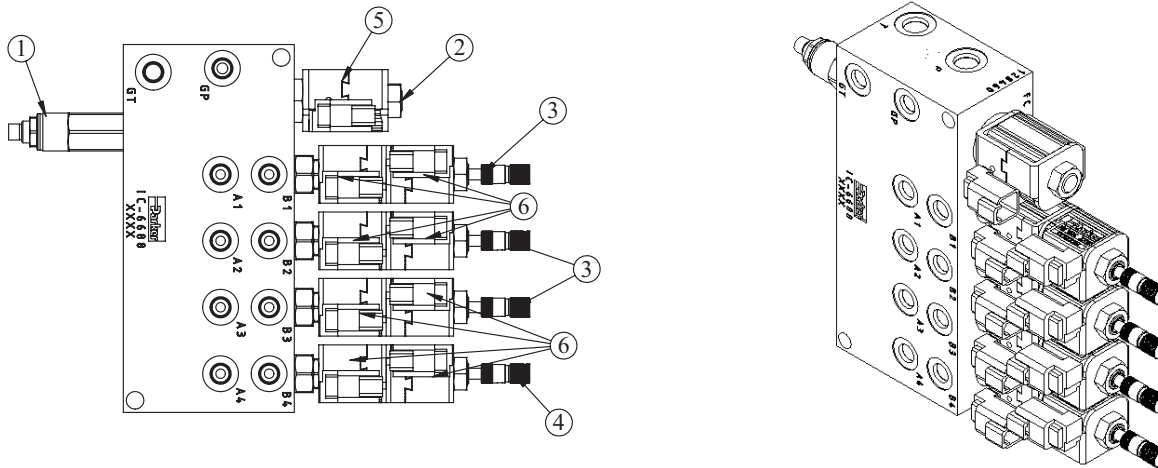
HYDRAULIC SCHEMATIC



PN 50591

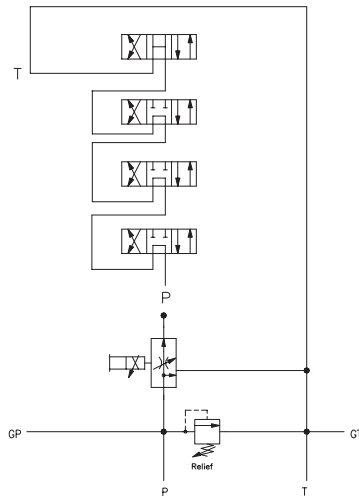
ITEM	PART	DESCRIPTION	QTY	TORQUE
1	25375	RELIEF VALVE 24957	1	23-27 FT-LBS
	25376	SEAL KIT 25375		
2	25377	VALVE SOLND 3 POS 4 WAY TAND G02571	3	22 FT-LBS
3	25378	VALVE SOLND 3 POS 4 WAY OPEN G02591	1	22 FT-LBS
	25379	SEAL KIT 25377/25378		
4	55126	COIL 12VDC DUETSCH CCP012H	8	3 FT-LBS

Valve Bank - PN 72666



P&T SAE #6
Others SAE #4

HYDRAULIC SCHEMATIC

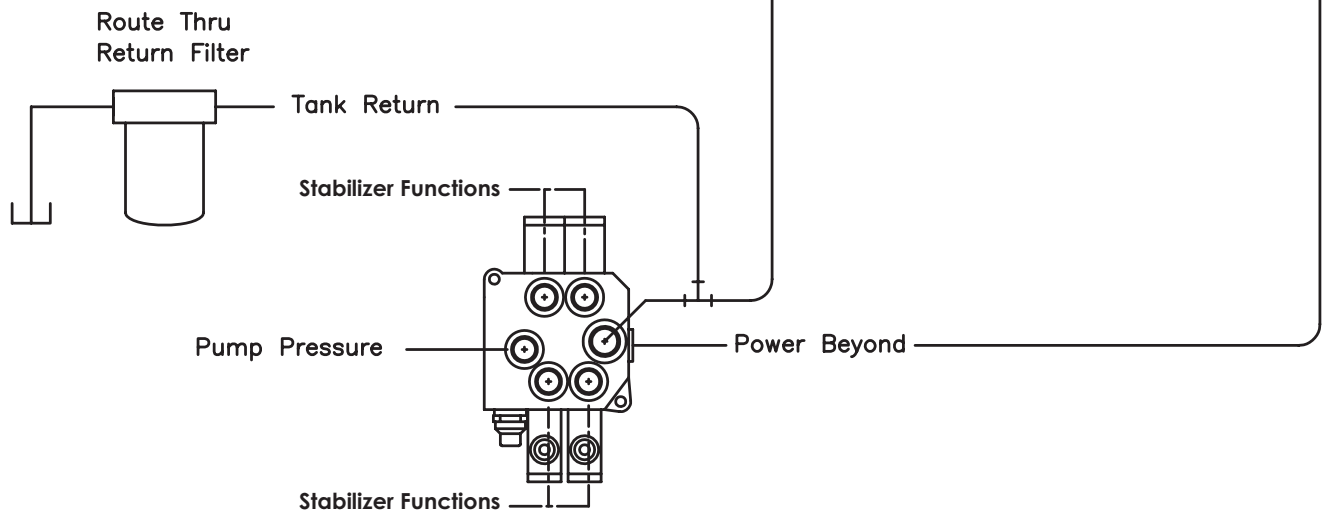
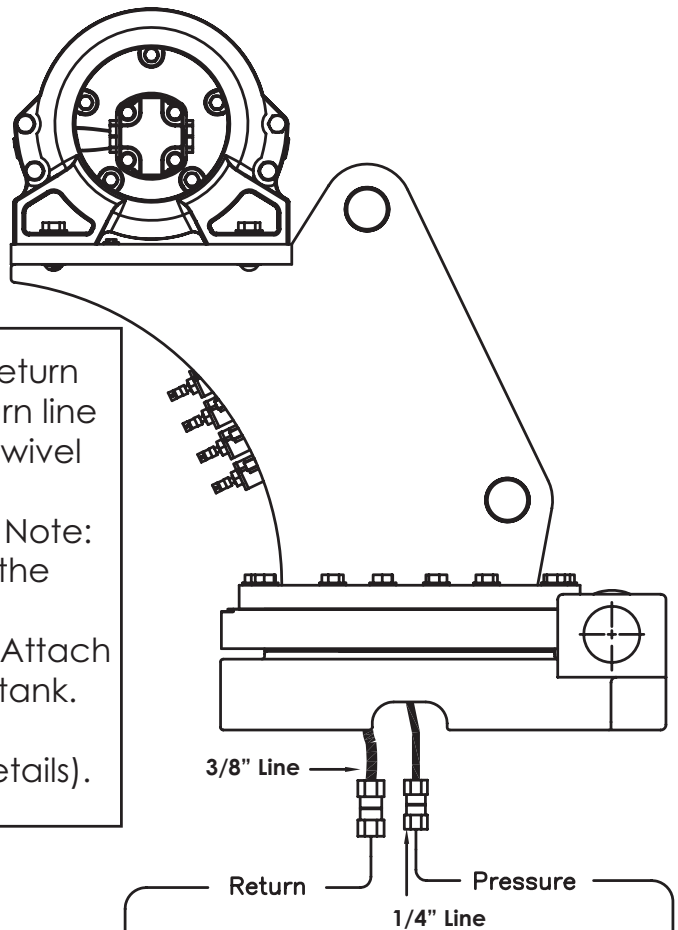


PN 72666

ITEM	PART	DESCRIPTION	QTY	TORQUE
1	25375	RELIEF VALVE 24957	1	23-27 FT LBS
	25376	SEAL KIT 25375		
2	25381	VALVE FLW CTRL PRP/JP04C3150N 0-4	1	20-22 FT LBS
	25369	SEAL KIT 24960/25381		
3	25377	VALVE SOLND 3 POS 4 WAY TAND G02571	3	22FT LBS
4	25378	VALVE SOLND 3 POS 4 WAY OPEN G02591	1	22 FT LBS
	25379	SEAL KIT 25377/25378		
5	44532	COIL 12VDC DUETSCH CAP012H	1	3 FT LBS
6	55126	COIL 12VDC DUETSCH CCP012H	8	3 FT LBS

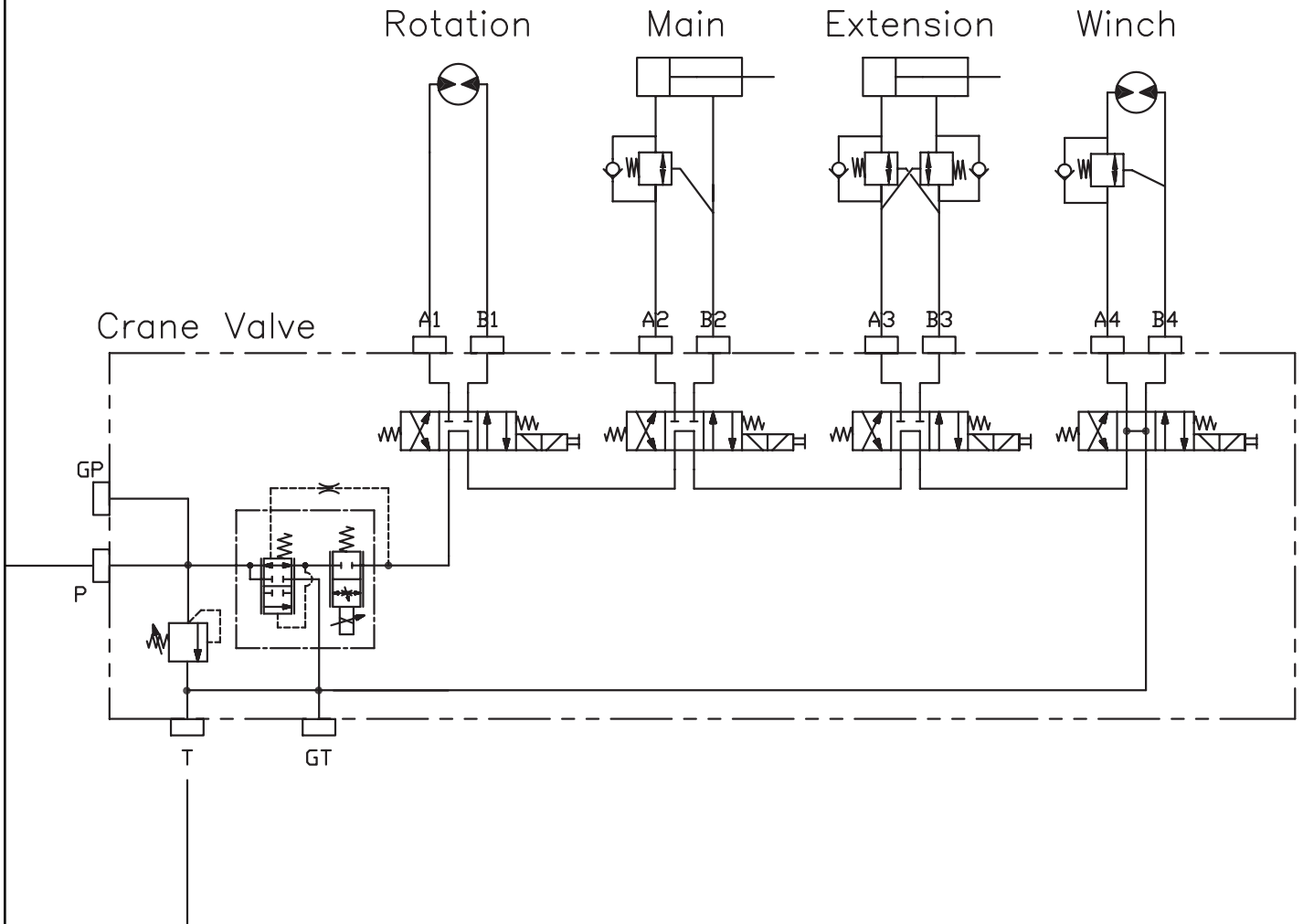
Hydraulic Installation

1. After mounting, locate the pressure and return lines. Note: Pressure line is 1/4" hose; Return line is 3/8" hose. Hoses are terminated using swivel fittings.
2. Install hydraulic lines per diagram below. Note: Stabilizer valve supplies oil to crane using the Power Beyond feature.
3. Install hydraulic reservoir with return filter. Attach pump pressure line to valve, return link to tank.
4. Fill system with hydraulic oil (See Stellar® Lubrication Recommendations for fluid details).

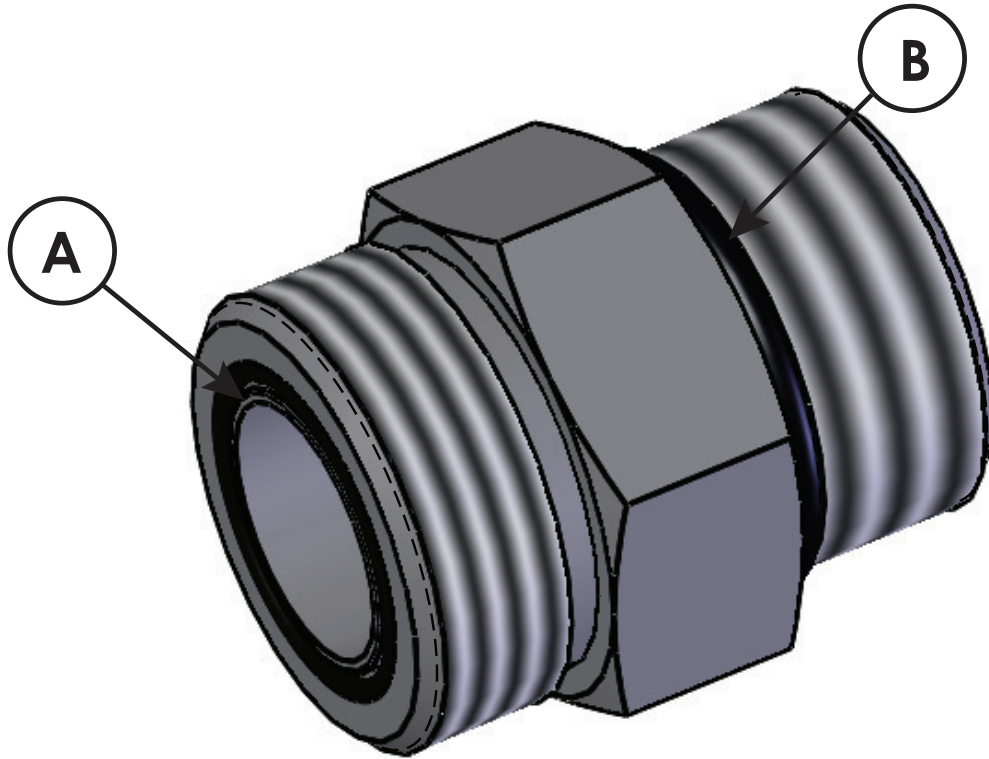


Typical Stabilizer Valve
with Power Beyond Capabilities

Hydraulic System



Face Seal/O-Ring Size Chart



Hose Size	Fitting Size	Face Seal (A) Stellar® PN	O-ring Boss (B) Stellar® PN
1/4"	#4	C2027	D1245
3/8"	#6	C2028	D1246
1/2"	#8	C2029	D1247
5/8"	#10	32223	D1248
3/4"	#12	D1244	D1249
1"	#16		D1250

Stability Procedure

Definition of Stability for the Stellar Telescopic Crane Products:

A truck is stable until the load cannot be lifted off the ground with the winch, without tipping over the truck. Every Stellar crane installed must be tested for stability to determine the actual load capacity of the final truck package. The actual test data must be recorded and supplied with the truck at the time of in-service and should be kept with the truck at all times. The following procedure will test the truck package for stability and will provide a stability capacity chart. The load limit information shown on the stability capacity chart is formulated on 85% tipping.

Set Up:

1. Locate the truck on a test course in position for loading and engage travel brakes.
2. Set stabilizers so that they make contact with firm, level footing.
3. Operate the crane under partial load to assure operator proficiency and proper machine function.
4. Put the radio into Stability Test Mode:
 - A. Push the middle four switches up and hold until "STB" appears on the screen (approximately 5 seconds.)
 - B. At this point, the crane will have enough capacity to handle the weight for the stability test.
 - C. The radio will timeout of stability mode after 30 minutes or when the E-Stop button is



pushed.

Note: The radio can only be put into stability mode five times. After that, the radio would have to be returned to Stellar to be reprogrammed to allow additional stability testing. All other radio functions will work properly even if stability mode is not available.

Stability Procedure Continued...

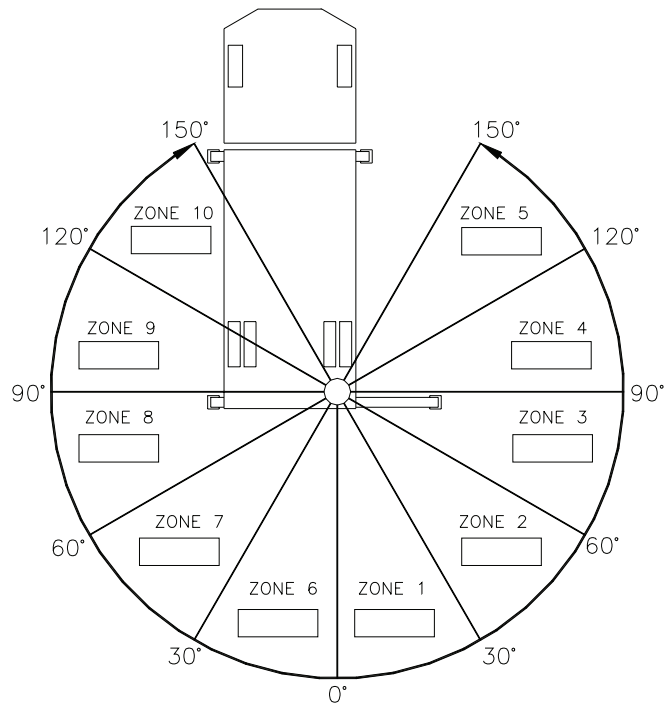
4421 Stability Data

Max Horizontal Reach: 248" (From the center of rotation to boom tip)

Stability Test Weight: 900 lbs.

Test Procedure

1. Rotate the crane into Zone 1 position.
2. With the crane fully retracted and the boom horizontal, winch the test weight off the ground.
Note: Keep weight within six inches of the ground at all times.
3. Extend the boom outward until full extension has been reached or until the truck becomes unstable (Again, use the winch to keep the weight within six inches of the ground.)
4. If the boom goes full extension without becoming unstable, the crane is termed stable for this zone and 100% can be written in the Zone 1 data box.
5. If the truck becomes unstable prior to going full extension, retract the boom until the truck becomes stable and measure the horizontal reach in this position (center of rotation to boom tip). This is the stable horizontal reach for this zone. Stable horizontal reach divided by Maximum horizontal reach multiplied by 100 equals the percentage of rated capacity for this zone. Use the following formula to determine the percentage of rated capacity:



$$\frac{\text{Stable Horizontal Reach}}{\text{Max Horizontal Reach}} \times 100 = \text{Percentage of Rated Capacity}$$

6. Record this number in the data box for Zone 1. This is the revised capacity due to stability for this zone.
7. Repeat this procedure for each zone until the worksheet is completed.
8. This is the revised capacity based on stability of this package.

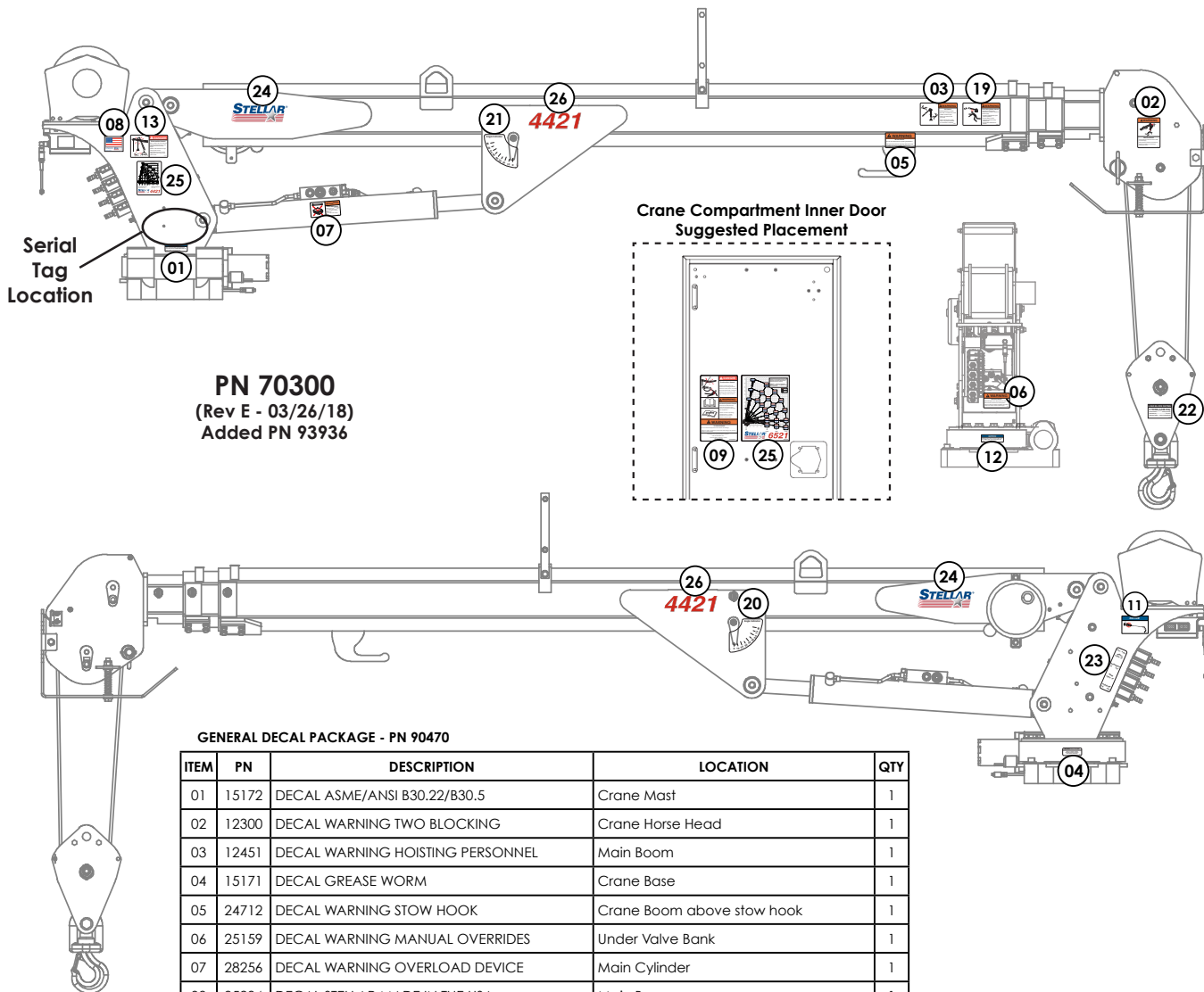
Crane Load Level Indicator

Stellar® Cranes are shipped with a load level indicator that is used to determine if the truck is level (side to side) before using the crane to pick/move a load. This level should be installed in the isolated crane compartment of the body. If level indicator is missing or damaged, please contact Stellar Customer Support for a replacement.



PN 76483

Decal Placement - PN 70300



GENERAL DECAL PACKAGE - PN 90470

ITEM	PN	DESCRIPTION	LOCATION	QTY
01	15172	DECAL ASME/ANSI B30.22/B30.5	Crane Mast	1
02	12300	DECAL WARNING TWO BLOCKING	Crane Horse Head	1
03	12451	DECAL WARNING HOISTING PERSONNEL	Main Boom	1
04	15171	DECAL GREASE WORM	Crane Base	1
05	24712	DECAL WARNING STOW HOOK	Crane Boom above stow hook	1
06	25159	DECAL WARNING MANUAL OVERRIDES	Under Valve Bank	1
07	28256	DECAL WARNING OVERLOAD DEVICE	Main Cylinder	1
08	35234	DECAL STELLAR MADE IN THE USA	Main Boom	1
09	93936	DECAL SAFETY & SERVICE MECH BODY DOOR	Crane Compartment	1
10	4188	DECAL ROTATION ALIGNMENT	Crane Base	1
11	73929	DECAL PRESSURE WASH	Crane Mast	1
12	9188	DECAL ROTATE/GREASE	Crane Base	1
13	C1179	DECAL DANGER ELECTROCUTION SMALL	Crane Mast	1
14*	C4545	DECAL DANGER ELECTROCUTION LARGE	Four corners of the body/chassis	4
15*	C5910	DECAL STELLAR 4x9.5	Suggested: Rear body/tailgate	1
16*	C5911	DECAL STELLAR 2x4.5	Suggested: Side corners of body	3
17**	D1196	DECAL ANGLE INDICATOR CS	Main Boom	1
18**	D1197	DECAL ANGLE INDICATOR SS	Main Boom	1

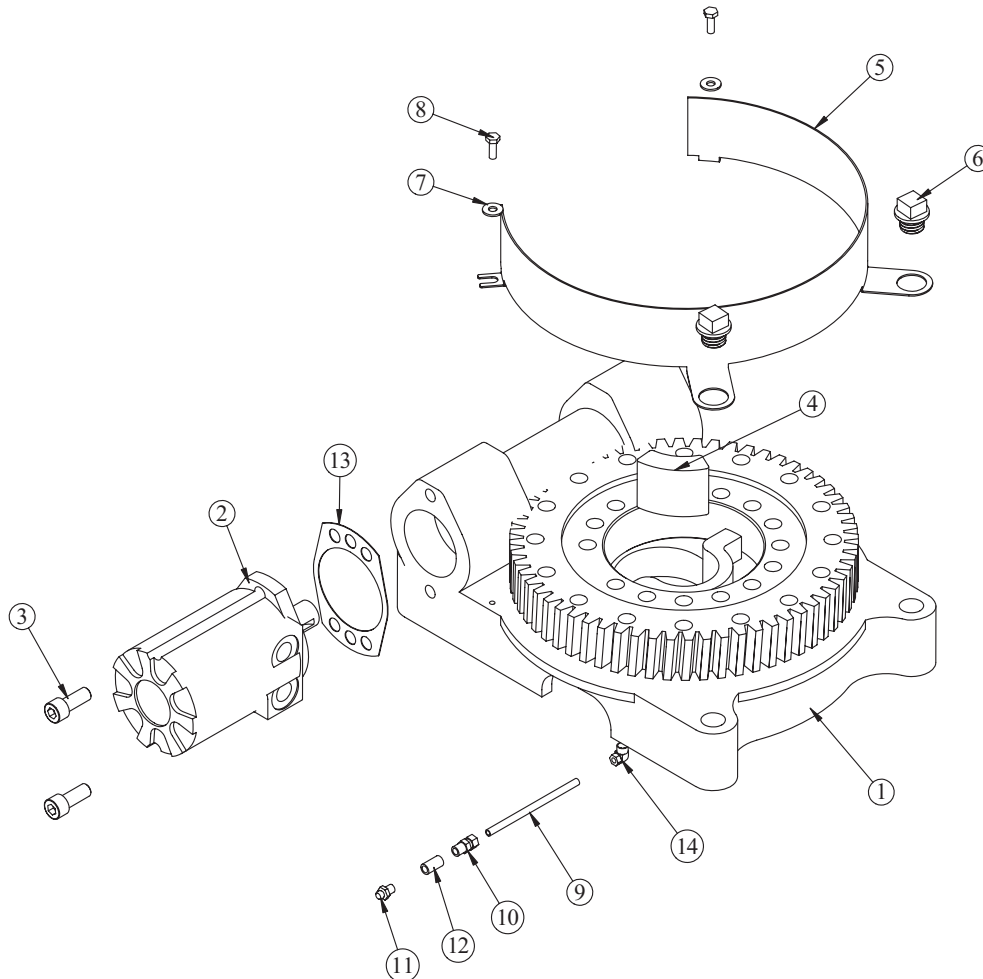
4421 DECAL PACKAGE - PN 90473

ITEM	PN	DESCRIPTION	LOCATION	QTY
19	12452	DECAL WARNING MANUAL EXT	Main Boom	1
20	13819	DECAL ANGLE INDICATOR SS	Main Boom	1
21	13820	DECAL ANGLE INDICATOR CS	Main Boom	1
22	116440	DECAL SNATCH BLOCK CAP 5 TON 45#	Snatch Block	1
23	41068	DECAL VB CONTROL MECH CRANE	On side of Crane Mast	1
24	55128	DECAL STELLAR LOGO 2.75 x 7.75	Main Boom (Both Sides)	2
25	70301	DECAL CAPACITY 4421	Main Boom and Crane Compartment	2
26	70302	DECAL IDENTIFICATION 4421	Main Boom (Both Sides)	2

*Not Shown **Not used on 4421 Crane

Chapter 3 - Assembly Drawings

Base Assembly - PN 19998



PN 19998

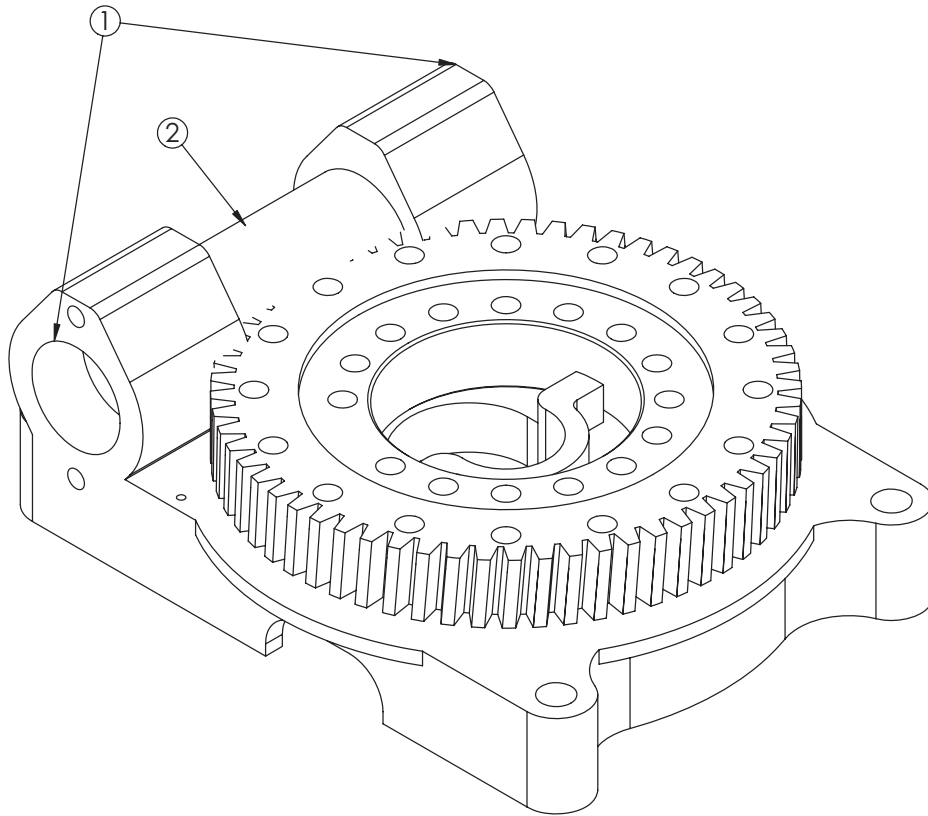
ITEM	PART	DESCRIPTION	QTY.
1	16653	BEARING SWING DRIVE CAST	1
2	C6069	MOTOR HYD ROSS MK080613AAAB	1
3	D1307	CAP SCR 0.50-13X1.25 SHGR8 W/ RED PATCH	2
4	17750	STOP 3515	1
5	44601PC	GUARD TTB 5520 CRANE LZR	1
6	18948	CAP SCR 0.88-9 X .63 PLASTIC	2
7	0340	WASHER 0.25 FLAT	2
8	0479	CAP SCR 0.25-20X0.75 HHGR5	2
9	22393	TUBE AIR	1
10	D1345	FTG CPRSN 0.12NPT/0.25 TUBE	1
11	56589	ZERK 1/8 NPT STRAIGHT LONG THREAD	1
12	22161	FTG 2-2 FP-FP COUPLER STRAIGHT BRASS	1
13	21151	GASKET MOTOR 008-10056-1	1
14	D0240	FTG 4-2 CPRSN-MP 90	1

GASKET SHOWN AS REFERENCE

**D0240 SHOWN AS REFERENCE
(INCLUDED WITH GEAR BEARING)**

NOT SHOWN: TRIM EDGE C4759 (3FT)

Gear Bearing - PN 16653



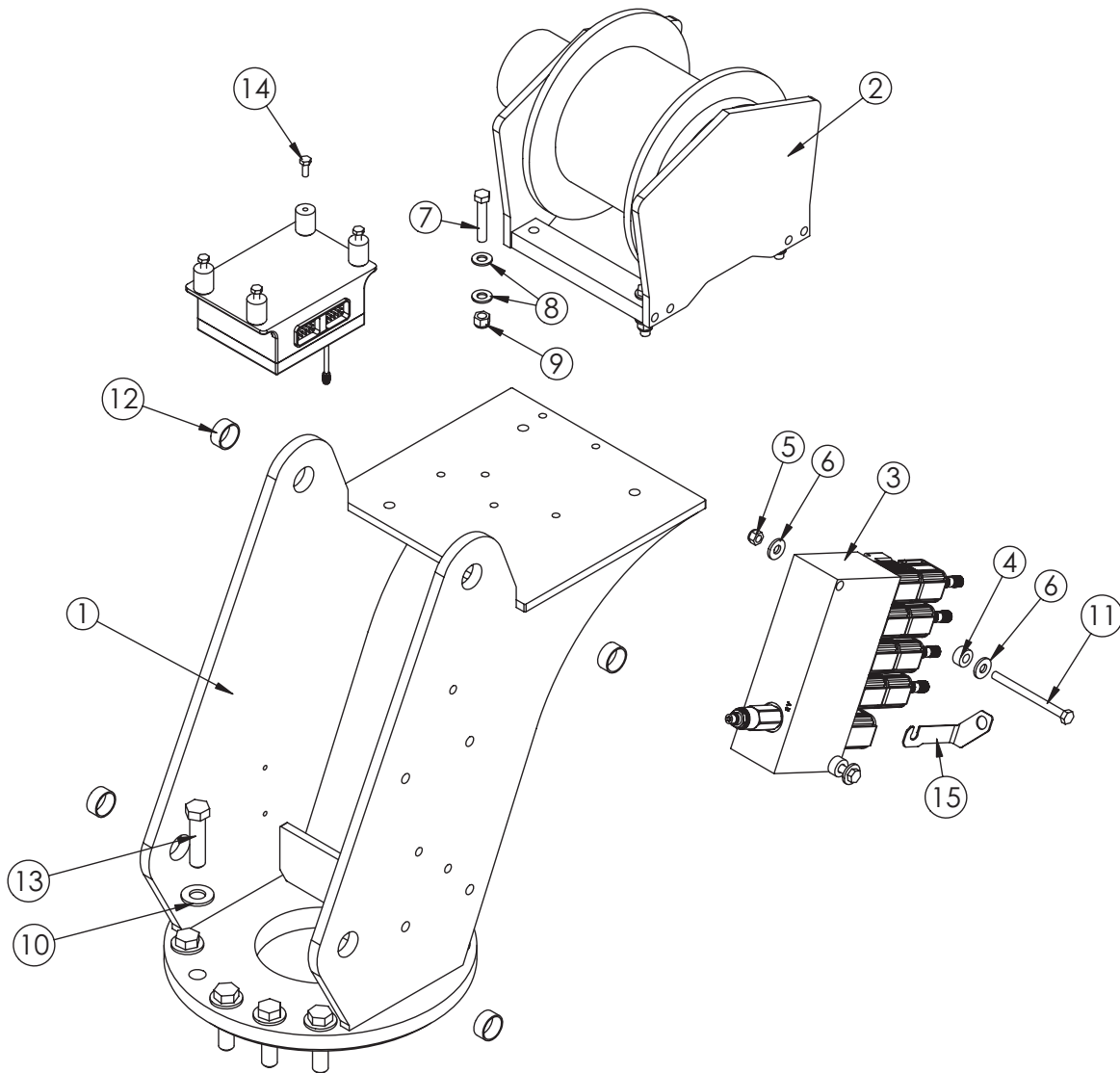
GEAR PRODUCTS

ITEM	PART	DESCRIPTION	QTY.
1	27184	BEARING AND SEAL KIT	1
2	62488	WORM 3315/4420/5520 GEAR PROD 170-10058-1	1

KINEMATICS

ITEM	PART	DESCRIPTION	QTY.
1	67866	BEARING AND SEAL KIT 9IN/4IN/17IN KINEMATICS	1
2	102101	WORM 9IN CAST BASE KINEMATICS	1

Mast Assembly (CDT Version) - PN 69394

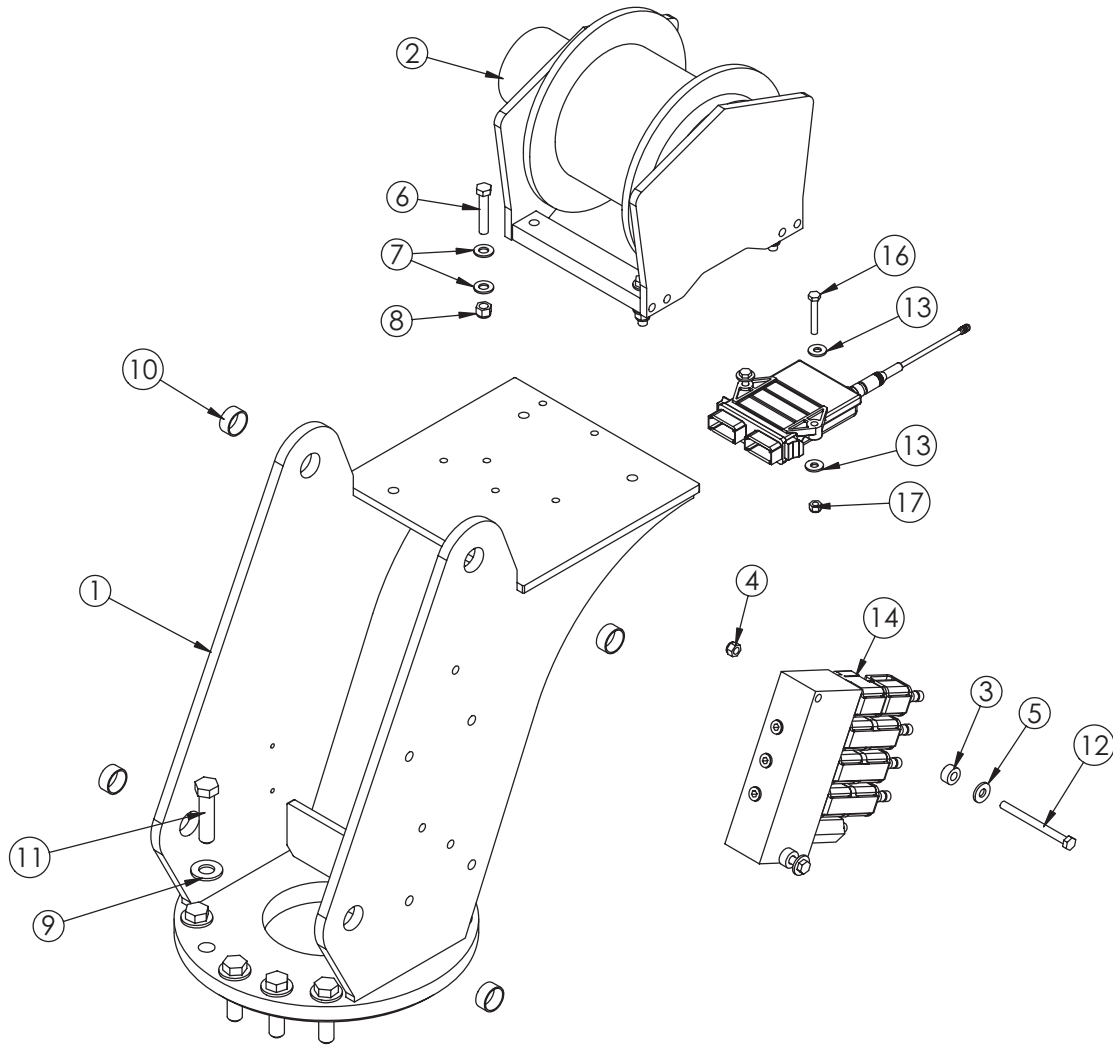


PN 69394

ITEM	PART No.	DESCRIPTION	QTY.
1	69373	MAST 4421	1
2	20039	WINCH 2000 4416 CRANE	1
3	72666	VB 4 SECT W/PROP STER4GPM-8 VALVE DEUTSCH	1
4	27813	COLLAR 0.38X0.75X0.38 UHMW	2
5	0342	NUT 0.31-18 HHGR5 NYLOC	2
6	0343	WASHER 0.31 USS FLAT	4
7	C1006	CAP SCR 0.38-16X2.00 HHGR8	4
8	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	8
9	56673	NUT 0.38-16 HHGR8 NYLOC	4
10	C5902	WASHER 0.63 SAE FLAT YELLOW GR8	10
11	0491	CAP SCR 0.31-18X4.00 HHGR5	2
12	20362	BUSHING BPC16DXR08 1.00X.50	4
13	66838	CAP SCR 0.63-11X2.50 HHGR8 W/RED PATCH	10
14	79565	CAP SCR 6MMX16MM HH 8.8(GR5)	4
15	85930	STRAP VALVE RETAINING	1

RADIO RECEIVER RUBBER MOUNT 64977

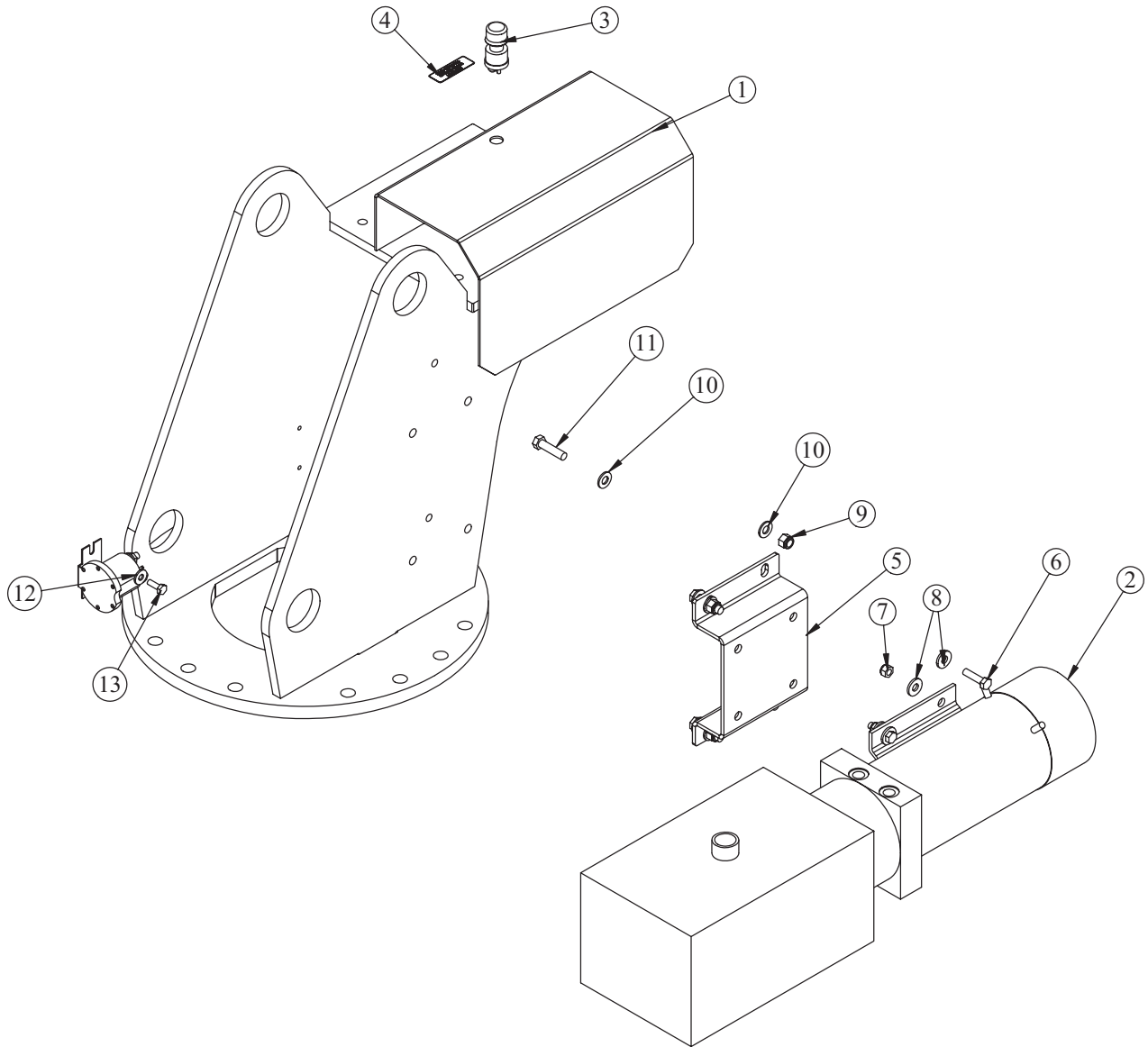
Mast Assembly (Non-CDT Version) - PN 70063



PN 70063

ITEM	PART	DESCRIPTION	QTY.
1	69373	MAST 4421	1
2	20039	WINCH 2000 4416 CRANE	1
3	27813	COLLAR 0.38X0.75X0.38 UHMW	2
4	0342	NUT 0.31-18 HHGR5 NYLOC	2
5	0343	WASHER 0.31 USS FLAT	3
6	C1006	CAP SCR 0.38-16X2.00 HHGR8	4
7	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	8
8	56673	NUT 0.38-16 HHGR8 NYLOC	4
9	C5902	WASHER 0.63 SAE FLAT YELLOW GR8	10
10	20362	BUSHING BPC16DXR08 1.00X.50	4
11	66838	CAP SCR 0.63-11X2.50 HHGR8 W/RED PATCH	10
12	24139	CAP SCR 0.31-18X3.75 HHGR5	2
13	0340	WASHER 0.25 USS FLAT	4
14	50591	VB 4 SECT ELECT ON/OFF STERLING4GPM	1
16	0332	CAP SCR 0.25-20X1.75 HHGR5	2
17	0333	NUT 0.25-20 HHGR5 NYLOC	2

Power Unit Assembly (Electric Version Only) - PN 57939



PN 57939

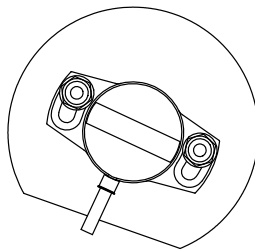
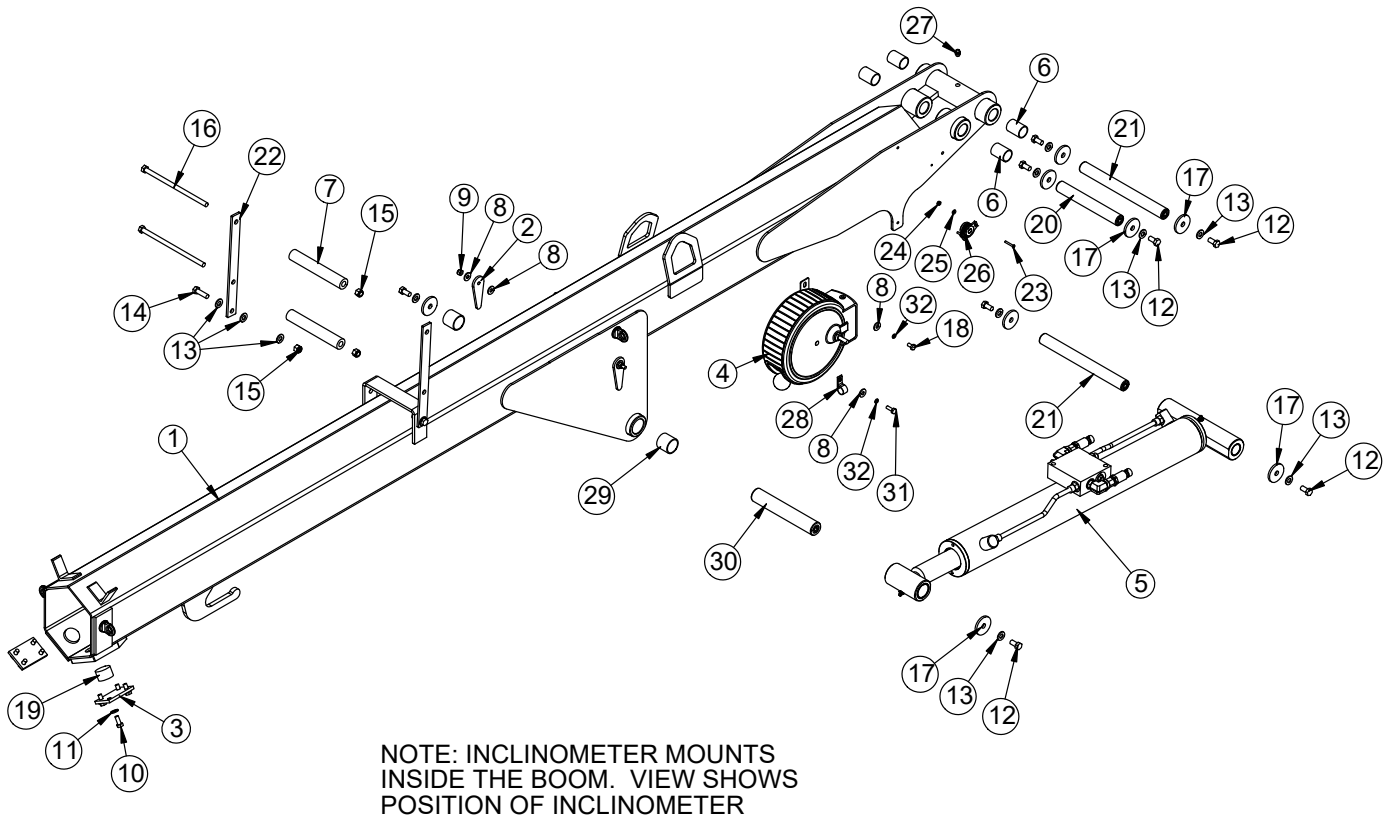
ITEM	PART	DESCRIPTION	QTY.
1	19997	COVER POWER UNIT 5520	1
2	16994	POWER UNIT 12V 5520 HORIZ	1
3	17771	SWITCH PUSH BUTTON 9216-03	1
4	18472	DECAL MANUAL OPERATION 5520	1
5	59136	BRACKET POWER UNIT 5521	1
6	0485	CAP SCR 0.31-18X1.25 HHGR5	4
7	0342	NUT 0.31-18 HHGR5 NYLOC	4
8	0343	WASHER 0.31 USS FLAT	8
9	56673	NUT 0.38-16 HHGR8 NYLOC	4
10	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	8
11	16962	CAP SCR 0.38-16X1.50 HHGR8	4
12	0340	WASHER 0.25 USS FLAT	2
13	0479	CAP SCR 0.25-20X0.75 HHGR5	2

NOTES:

SOLENOID 12V 24956

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Main Boom Assembly (CDT Version) - PN 69392



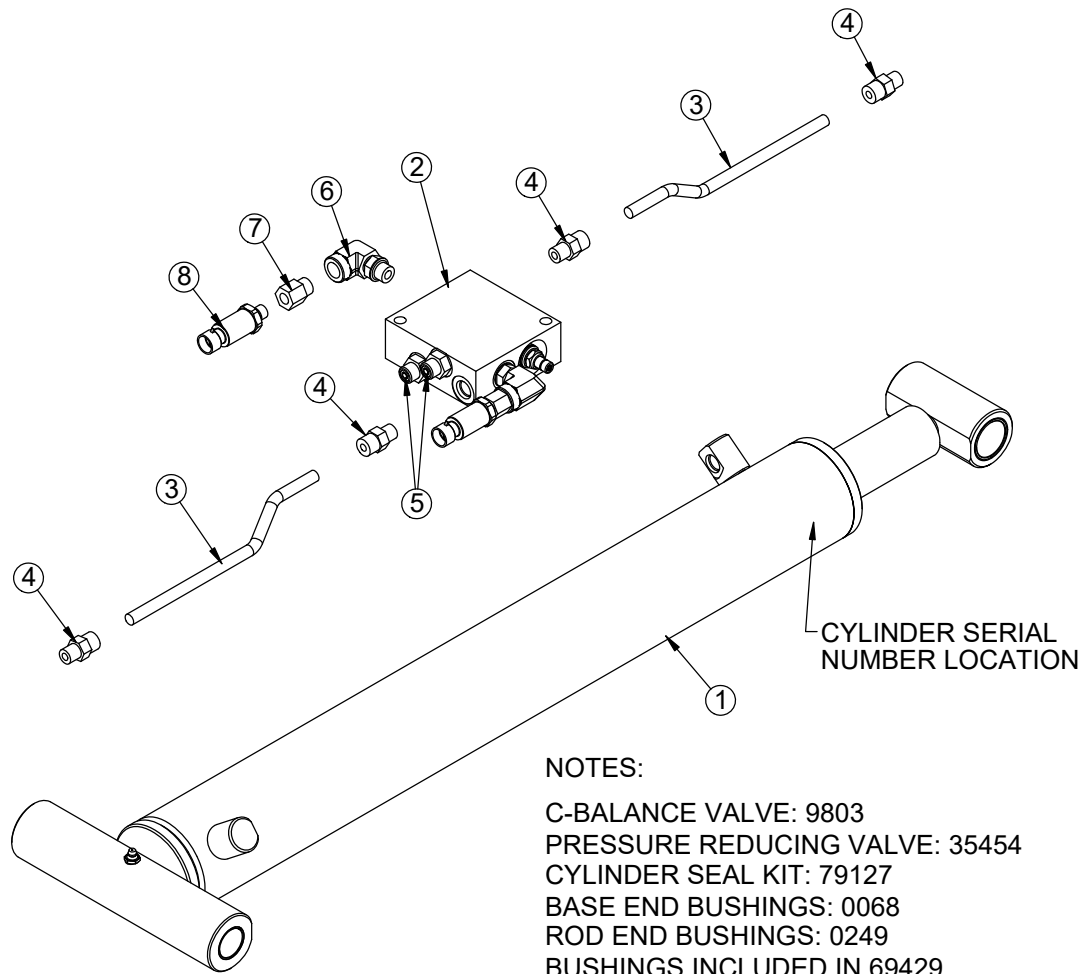
Main Boom Assembly (CDT Version) - PN 69392 Parts List

PN 69392			
ITEM	PART	DESCRIPTION	QTY
1	69391	INNER BOOM 4421	1
2	19881PC	PLATE ANGLE INDICATOR 3315 PC BLACK	2
3	19497	PLATE 1ST EXT 3315 WEAR PAD PC WHITE	2
4	72602	CORD REEL ASM 15/21 FT CRANE	1
5	69428	CYLINDER ASM 4421 INNER CDT	1
6	0068	BUSHING BPC16DXR24 1.00X1.50	4
7	69472	SPACER ROPE GUIDE 4421 UHMW	2
8	0340	WASHER 0.25 USS FLAT	6
9	0333	NUT 0.25-20 HHGR5 NYLOC	2
10	53521	CAP SCR 0.31-18X0.75 HHGR8	8
11	5591	WASHER 0.31 SAE FLAT YELLOW GR8	8
12	9843	CAP SCR 0.38-16X0.75 HHGR8	8
13	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	14
14	0335	CAP SCR 0.38-16X1.25 HHGR5	2
15	0347	NUT 0.38-16 HHGR5 NYLOC	4
16	70213	CAP SCR 0.38-16X7.50 HHGR5	2
17	9320	PIN CAP 0.44X1.75X0.19 YZ	8
18	0478	CAP SCR 0.25-20X0.50 HHGR5	1
19	19496	WEAR PAD .88X1.38 RND	2
20	69681CR	PIN 1.00X7.38 SR/D&T ZC	1
21	69682CR	PIN 1.00X10.13 SR/D&T ZC	2
22	69470	BRKT ROPE GUIDE 4421 PC BLACK	2
23	18618	SCREW #6-32X1.00 PHMS PH	2
24	D0076	NUT #6-32 HH NYLOC SS	2
25	18765	WASHER #6 SAE FLAT	2
26	53493	INCLINOMETER 60 DEG	1
27	C1592	ZERK 1/8 NPT STRAIGHT	1
28	C0078	CLAMP 0.38 BLK VINYL	1
29	0249	BUSHING BPC20DXR20 1.25X1.25	2
30	72606CR	PIN 1.25X7.38 D&T ZC	1
31	0479	CAP SCR 0.25-20X0.75 HHGR5	1
32	0521	WASHER 0.25 LOCK	2
REV. G			

NOTES:

HARDWARE KITS: 115288, 97629, 115649, 115651

Cylinder Assembly - PN 69428

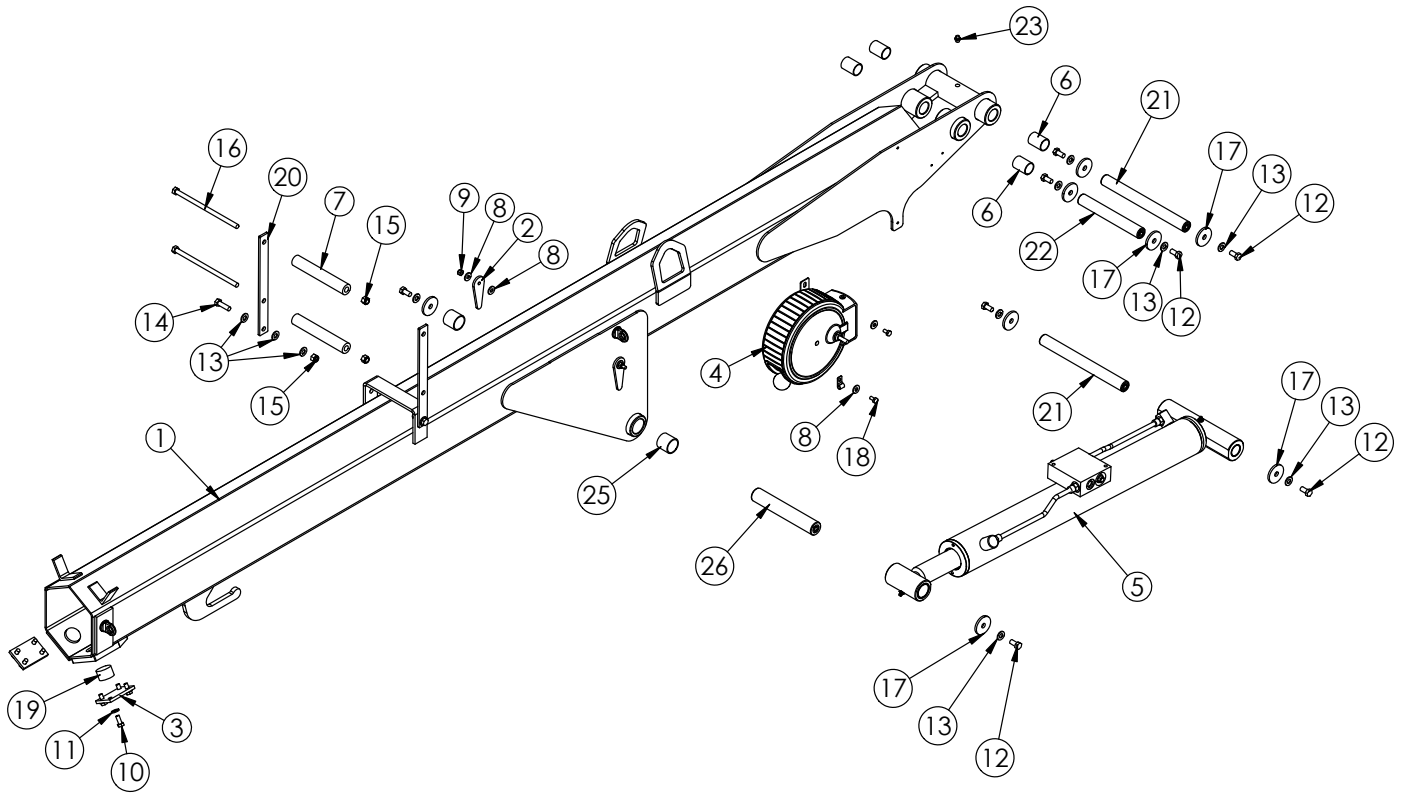


NOTES:

- C-BALANCE VALVE: 9803
- PRESSURE REDUCING VALVE: 35454
- CYLINDER SEAL KIT: 79127
- BASE END BUSHINGS: 0068
- ROD END BUSHINGS: 0249
- BUSHINGS INCLUDED IN 69429

PN 69428			
ITEM	PART	DESCRIPTION	QTY
1	69429	CYLINDER 3.00X22.50	1
2	13080	MANIFOLD SINGLE T11A 3500 PSI	1
3	12158	TUBE ASM 0.38X8.88 MAIN CYL 6620 YZ	2
4	0279	FTG 6-6 MFS-MORB STRAIGHT	4
5	C4922	FTG 4-6 MFS-MORB STRAIGHT	2
6	3861	FTG 6-6 MAORB-FORB 90	2
7	15111	FTG 6-4 MORB-FORB STRAIGHT REDUCER	2
8	28485	TRANSDUCER PRESSURE 5000 PSI	2
REV. A			

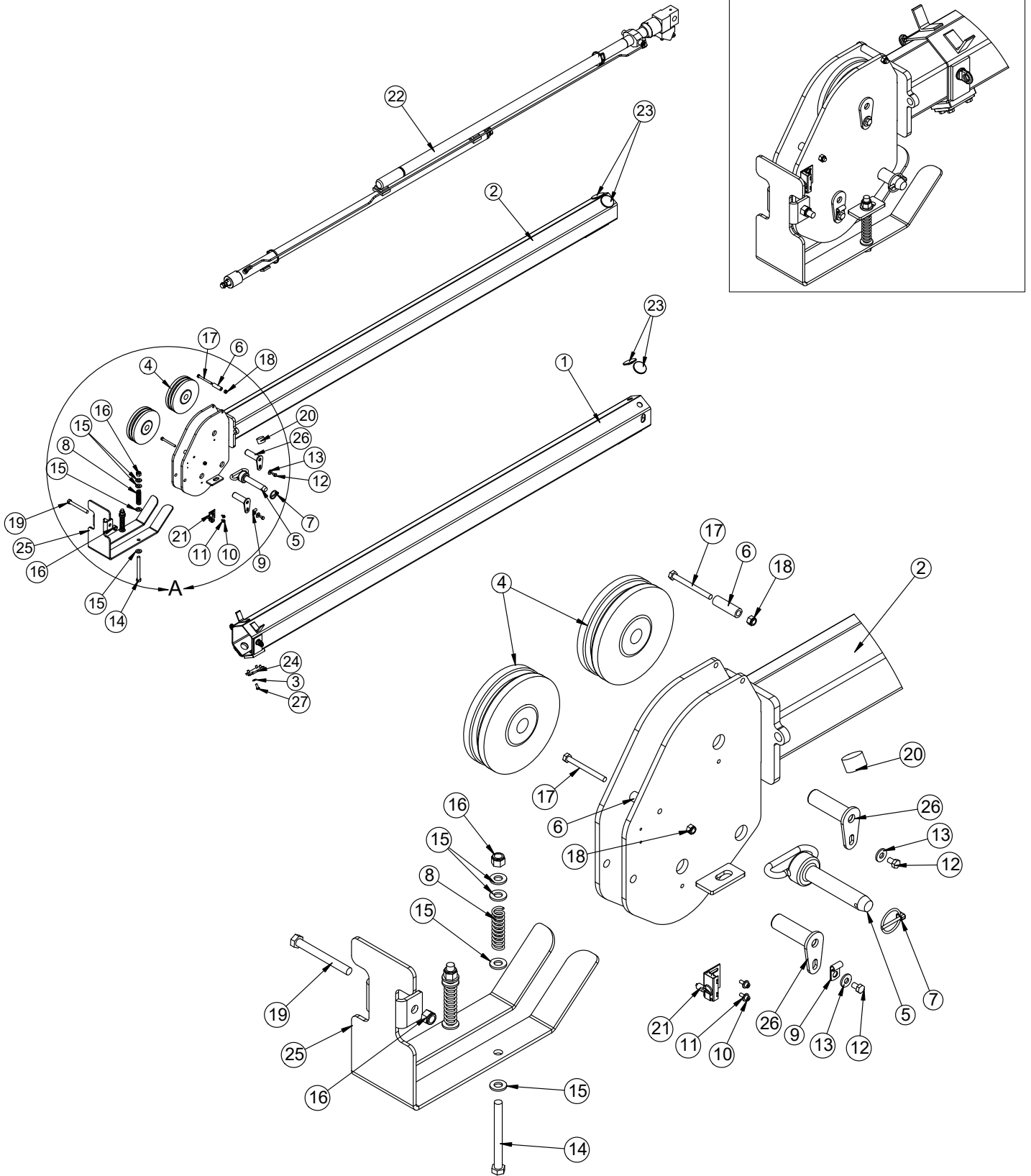
Main Boom Assembly (Non-CDT Version) - PN 70026



PN 70026

ITEM	PART	DESCRIPTION	QTY.	ITEM	PART	DESCRIPTION	QTY.
1	69391	INNER BOOM 4421	1	14	0335	CAP SCR 0.38-16X1.25 HHGR5	2
2	19881PC	PLATE ANGLE INDICATOR 3315	2	15	0347	NUT 0.38-16 HHGR5 NYLOC	4
3	19497PC	PLATE 1ST EXT 3315 WEAR PAD	2	16	70213	CAP SCR 0.38-16X7.50 HHGR5	2
4	72602	CORD REEL ASM 21 FT CRANE	1	17	9320	PIN CAP 0.44X1.75X0.19 SS	8
5	70027	CYLINDER ASM 4421 INNER	1	18	0478	CAP SCR 0.25-20X0.50 HHGR5	2
6	0068	BUSHING BPC16DXR24 1.00X1.50	4	19	19496	WEAR PAD .88X1.38 RND	2
7	69472	SPACER ROPE GUIDE 4421 UHMW	2	20	69470PC	BRKT ROPE GUIDE 4421	2
8	0340	WASHER 0.25 USS FLAT ZINC	6	21	69682ZP	PIN 1.00X10.13 SR/D&T	2
9	0333	NUT 0.25-20 HHGR5 NYLOC	2	22	69681ZP	PIN 1.00X7.38 SR/D&T	1
10	0420	CAP SCR 0.31-18X0.75 HHGR5	8	23	c1592	ZERK 1/8 NPT STRAIGHT	1
11	5591	WASHER 0.31 SAE FLAT YELLOW GR8	8	24	C5606	CLAMP 0.25 BLK VINYL	1
12	9843	CAP SCR 0.38-16X0.75 HHGR8	8	25	0249	BUSHING BPC20DXR20 1.25X1.25	2
13	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	14	26	72606CR	PIN 1.25X7.38 D&T	1

Extension Boom Assembly - PN 69399



DETAIL A
SCALE 1 : 8

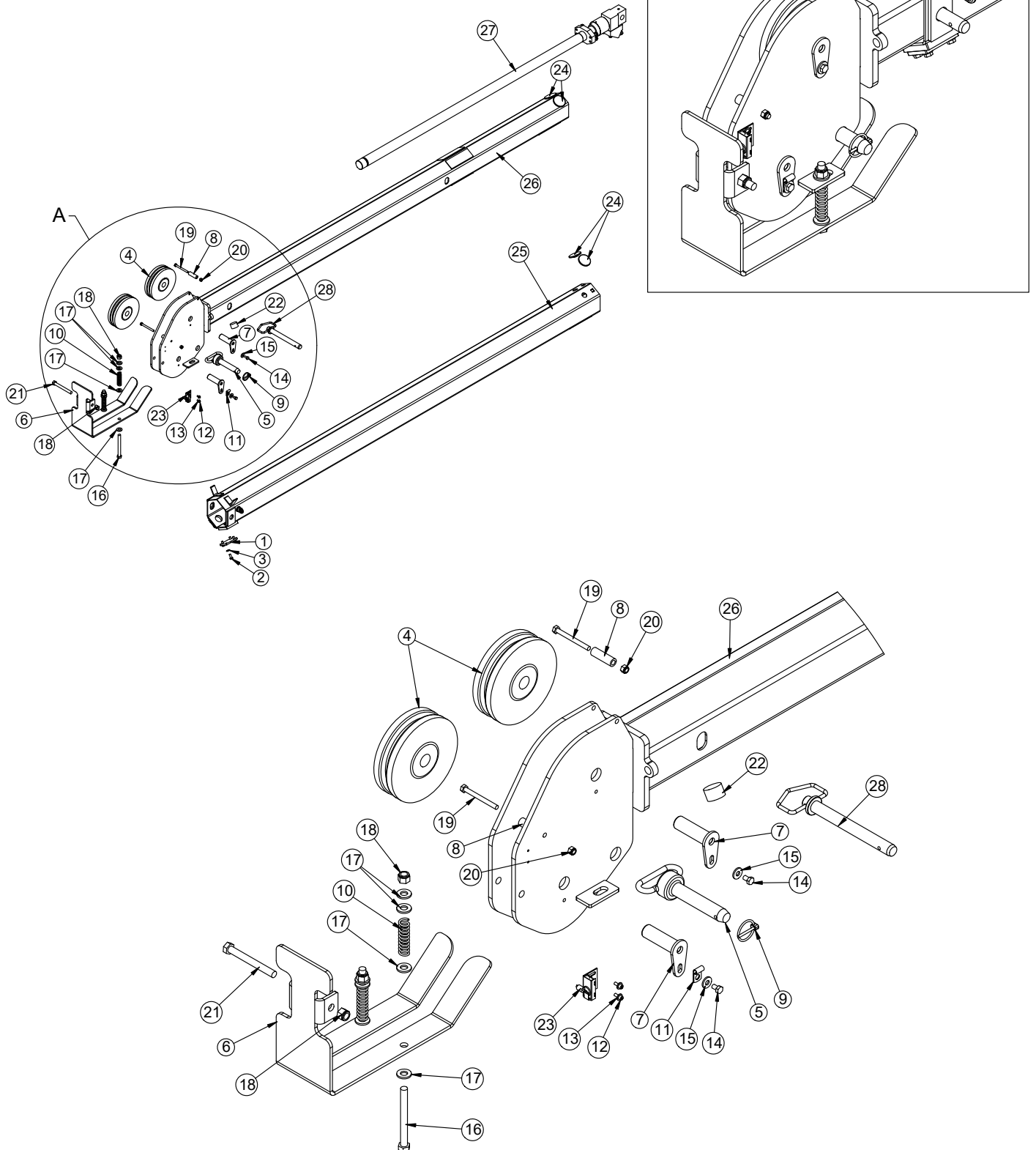
Extension Boom Assembly - PN 69399 Parts List

PN 69399			
ITEM	PART	DESCRIPTION	QTY
1	69397	EXT BOOM 1ST 4421	1
2	69398	EXT BOOM 2ND 4421	1
3	5591	WASHER 0.31 SAE FLAT YELLOW GR8	8
4	11545	SHEAVE 6620 6.75 DIA .31R/1.94 THK	2
5	12824	PIN HITCH 1.00X4.50	1
6	27719	SPACER BOOM TIP 6620 UHMW	2
7	5753	PIN 0.19X1.56 LYNCH	1
8	27710	SPRING ANTI 2 BLOCK CRADLE A2B	2
9	31279	CLAMP 0.31D 0.75W 0.40HL GALV BLK VINYL	1
10	31132	CAP SCR #10-24X0.550 SH SS 18-8	2
11	D0178	WASHER #10 SAE FLAT	2
12	0484	CAP SCR 0.31-18X0.50 HHGR5	2
13	0343	WASHER 0.31 USS FLAT	2
14	C1000	CAP SCR 0.50-13X5.00 HHGR5	2
15	D0790	WASHER 0.50 SAE FLAT YELLOW GR8	8
16	C6106	NUT 0.50-13 HHGR5 NYLOC	3
17	12178	CAP SCR 0.31-18X3.25 HHGR5	2
18	0342	NUT 0.31-18 HHGR5 NYLOC	2
19	0507	CAP SCR 0.50-13X4.50 HHGR5	1
20	19496	WEAR PAD .88X1.38 RND	2
21	35105	SWITCH LIMIT E1117-B9111-6C	1
22	69477	CYLINDER EXT ASM 4421 1.5/1.5	1
23	9991	WEAR PAD 0.19X2.50 RND	4
24	136653	PLATE WEAR PAD COVER 1ST EXT 3315/4421 CORSOL	2
25	51903	PLATE CRADLE 6620/6628 PC BLACK	1
26	9706CR	PIN TEAR DROP 1.00X3.25 ZC	2
27	53521	CAP SCR 0.31-18X0.75 HHGR8	8
REV. C			

NOTES:

HARDWARE KITS: 115651, 115653.

Extension Boom Assembly (1 Hyd/1 Manual) - PN 69892



DETAIL A
SCALE 1 : 8

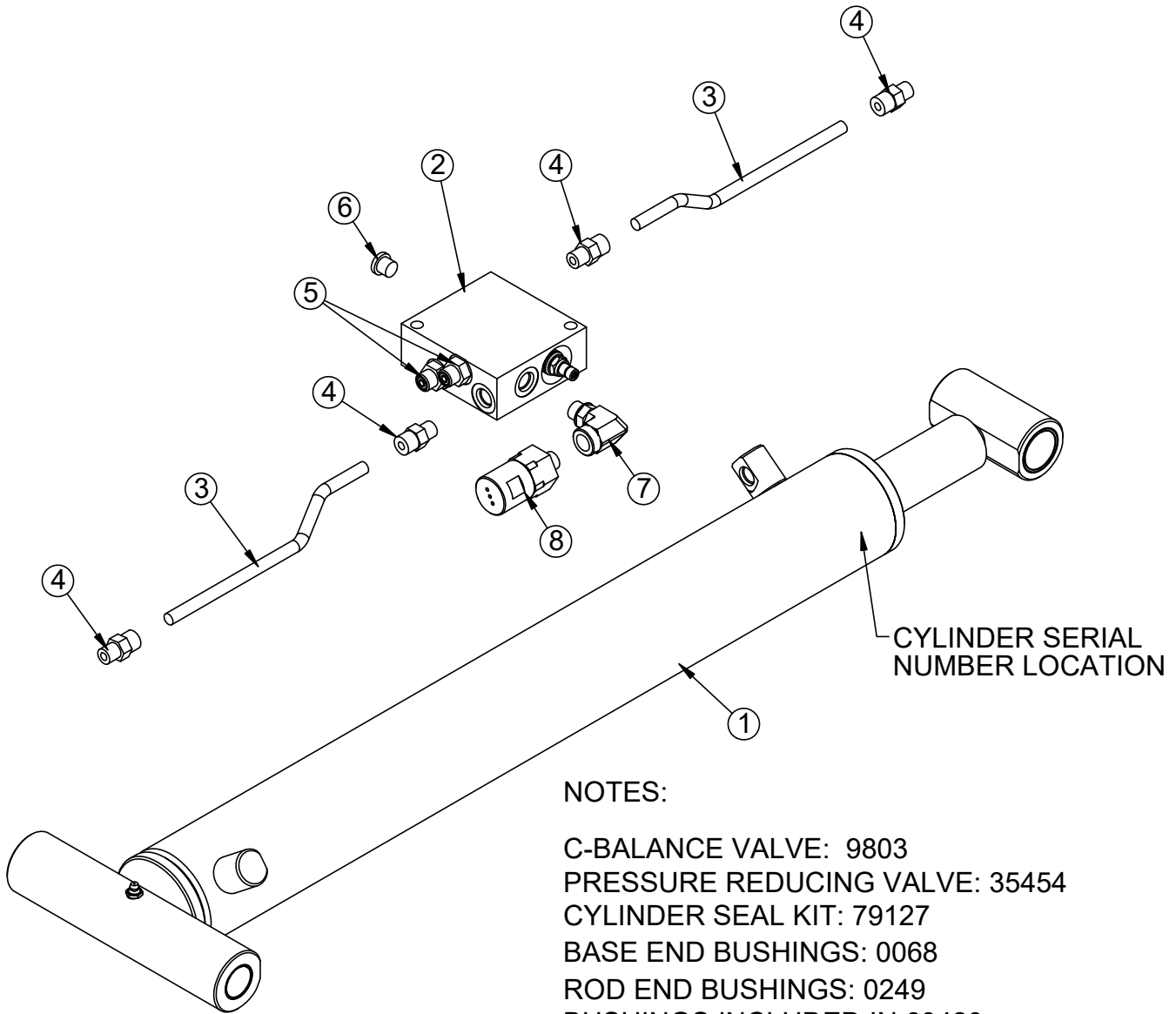
Ext. Boom Assembly (1 Hyd/1 Manual) - PN 69892 Parts List

PN 69892			
ITEM	PART	DESCRIPTION	QTY
1	136653	PLATE WEAR PAD COVER 1ST EXT 3315/4421 CORSOL	2
2	53521	CAP SCR 0.31-18X0.75 HHGR8	8
3	5591	WASHER 0.31 SAE FLAT YELLOW GR8	8
4	11545	SHEAVE 6620 6.75 DIA .31R/1.94 THK	2
5	12824	PIN HITCH 1.00X4.50	1
6	51903	PLATE CRADLE 6620/6628 PC BLACK	1
7	9706CR	PIN TEAR DROP 1.00X3.25 ZC	2
8	27719	SPACER BOOM TIP 6620 UHMW	2
9	5753	PIN 0.19X1.56 LYNCH	1
10	27710	SPRING ANTI 2 BLOCK CRADLE A2B	2
11	31279	CLAMP 0.31D 0.75W 0.40HL GALV BLK VINYL	1
12	31132	CAP SCR #10-24X0.550 SH SS 18-8	2
13	D0178	WASHER #10 SAE FLAT	2
14	0484	CAP SCR 0.31-18X0.50 HHGR5	2
15	0343	WASHER 0.31 USS FLAT	2
16	C1000	CAP SCR 0.50-13X5.00 HHGR5	2
17	D0790	WASHER 0.50 SAE FLAT YELLOW GR8	8
18	C6106	NUT 0.50-13 HHGR5 NYLOC	3
19	12178	CAP SCR 0.31-18X3.25 HHGR5	2
20	0342	NUT 0.31-18 HHGR5 NYLOC	2
21	0507	CAP SCR 0.50-13X4.50 HHGR5	1
22	19496	WEAR PAD .88X1.38 RND	2
23	35105	SWITCH LIMIT E1117-B9111-6C	1
24	9991	WEAR PAD 0.19X2.50 RND	4
25	69893	EXT BOOM 1ST 4421 1H1M	1
26	69898	EXT BOOM 2ND 4421 CRADLE A2B 1H1M	1
27	69431	CYLINDER ASM 4421 1H1M	1
28	57937	PIN HITCH 0.75X8.00	1
REV. C			

NOTES:

HARDWARE KITS: 115651, 115653.

Main Cylinder Assembly - PN 70027

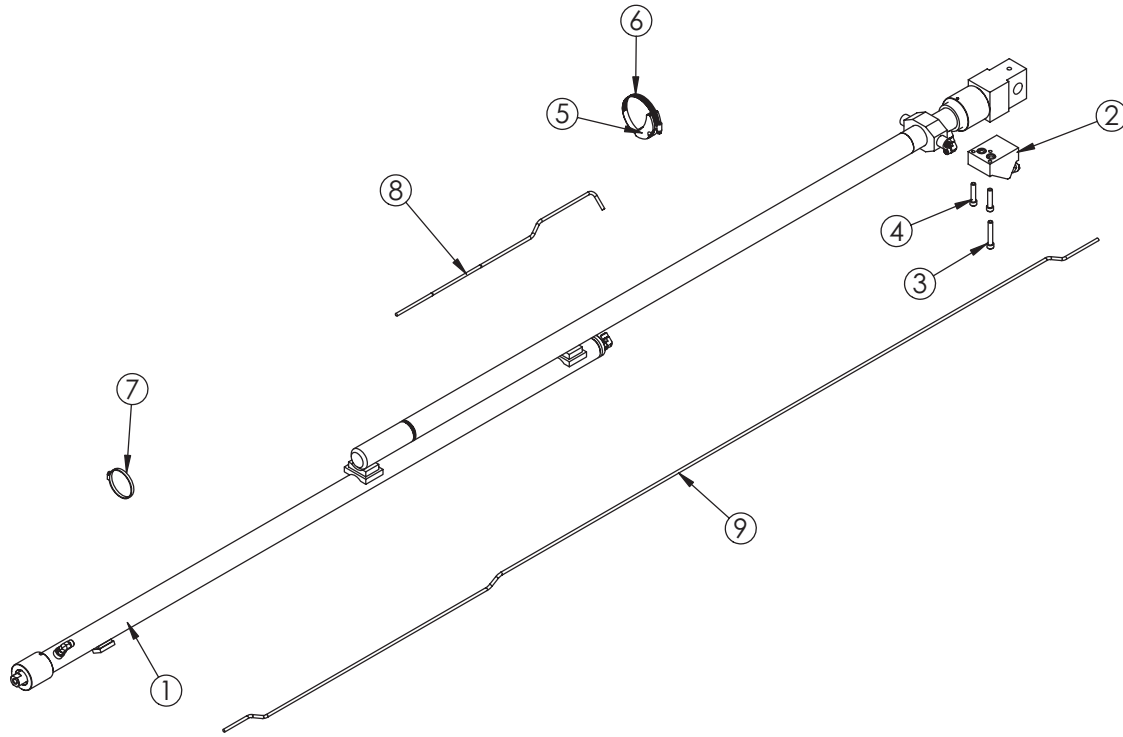


NOTES:

- C-BALANCE VALVE: 9803
- PRESSURE REDUCING VALVE: 35454
- CYLINDER SEAL KIT: 79127
- BASE END BUSHINGS: 0068
- ROD END BUSHINGS: 0249
- BUSHINGS INCLUDED IN 69429

PN 70027			
ITEM	PART	DESCRIPTION	QTY
1	69429	CYLINDER 3.00X22.50	1
2	13080	MANIFOLD SINGLE T11A 3500 PSI	1
3	12158	TUBE ASM 0.38X8.88 MAIN CYL 6620 YZ	2
4	279	FTG 6-6 MFS-MORB STRAIGHT	4
5	C4922	FTG 4-6 MFS-MORB STRAIGHT	2
6	C4961	FTG 6 MORB PLUG HOLLOW HEX	1
7	3861	FTG 6-6 MAORB-FORB 90	1
8	70491	SWITCH PRES OVERLD CF-11C-2300R/WD	1
REV. A			

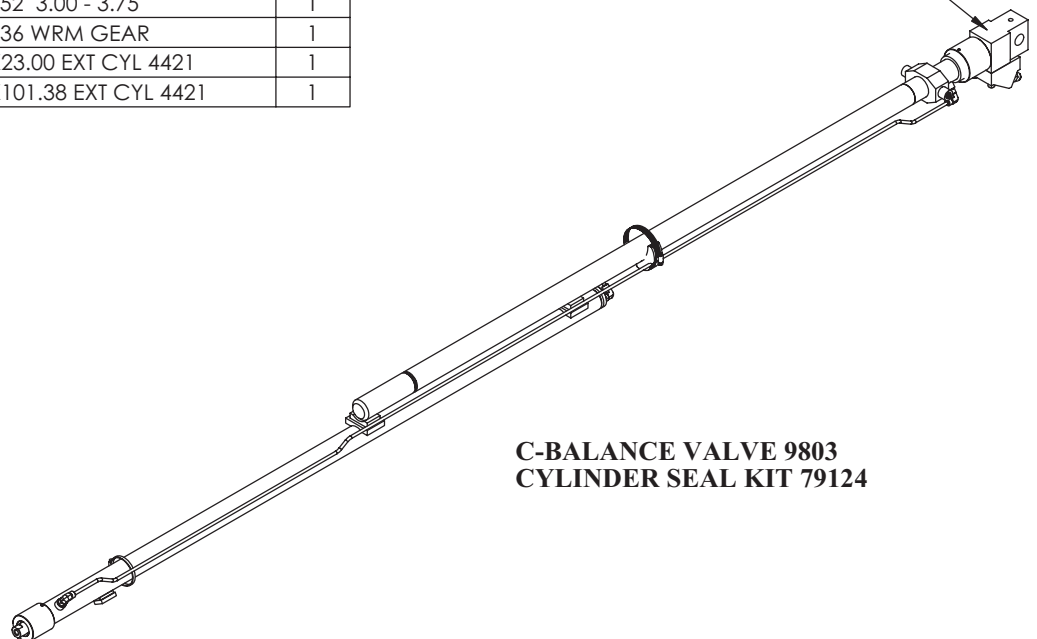
Extension Cylinder Assembly - PN 69477



PN 69477

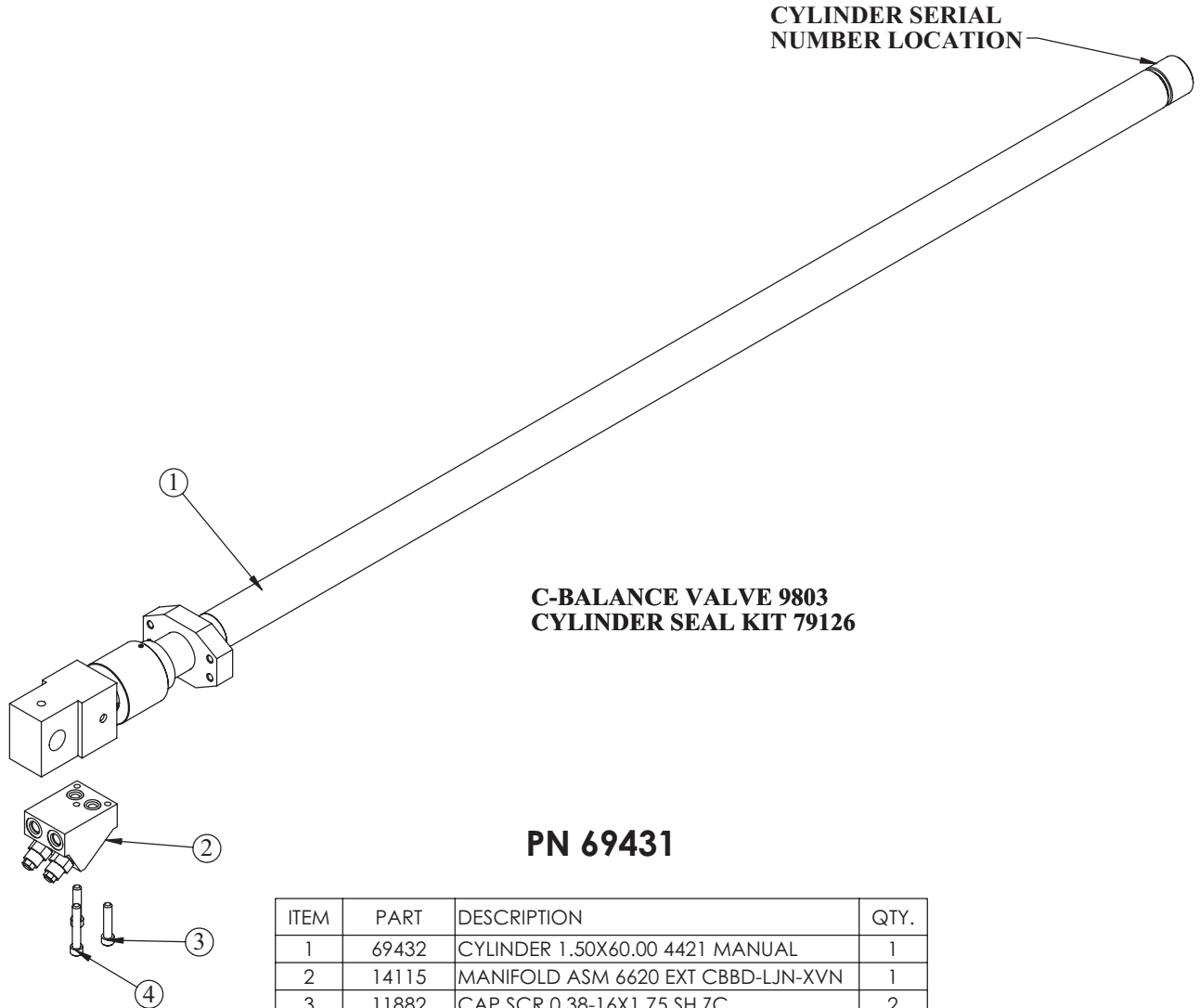
ITEM	PART	DESCRIPTION	QTY.
1	69426	CYLINDER EXT 4421 2 STAGE 1.5/1.5	1
2	14115	MANIFOLD ASM 6620 EXT CBBD-LJN-XVN	1
3	14601	CAP SCR 0.38-16X2.25 SH ZC	1
4	11882	CAP SCR 0.38-16X1.75 SH ZC	2
5	18701	CLAMP PORT TUBE ZR518	1
6	24729	HOSE CLAMP #52 3.00 - 3.75	1
7	D0655	HOSE CLAMP #36 WRM GEAR	1
8	69561	TUBE ASM 0.25X23.00 EXT CYL 4421	1
9	69678	TUBE ASM 0.25X101.38 EXT CYL 4421	1

**CYLINDER SERIAL
NUMBER LOCATION**



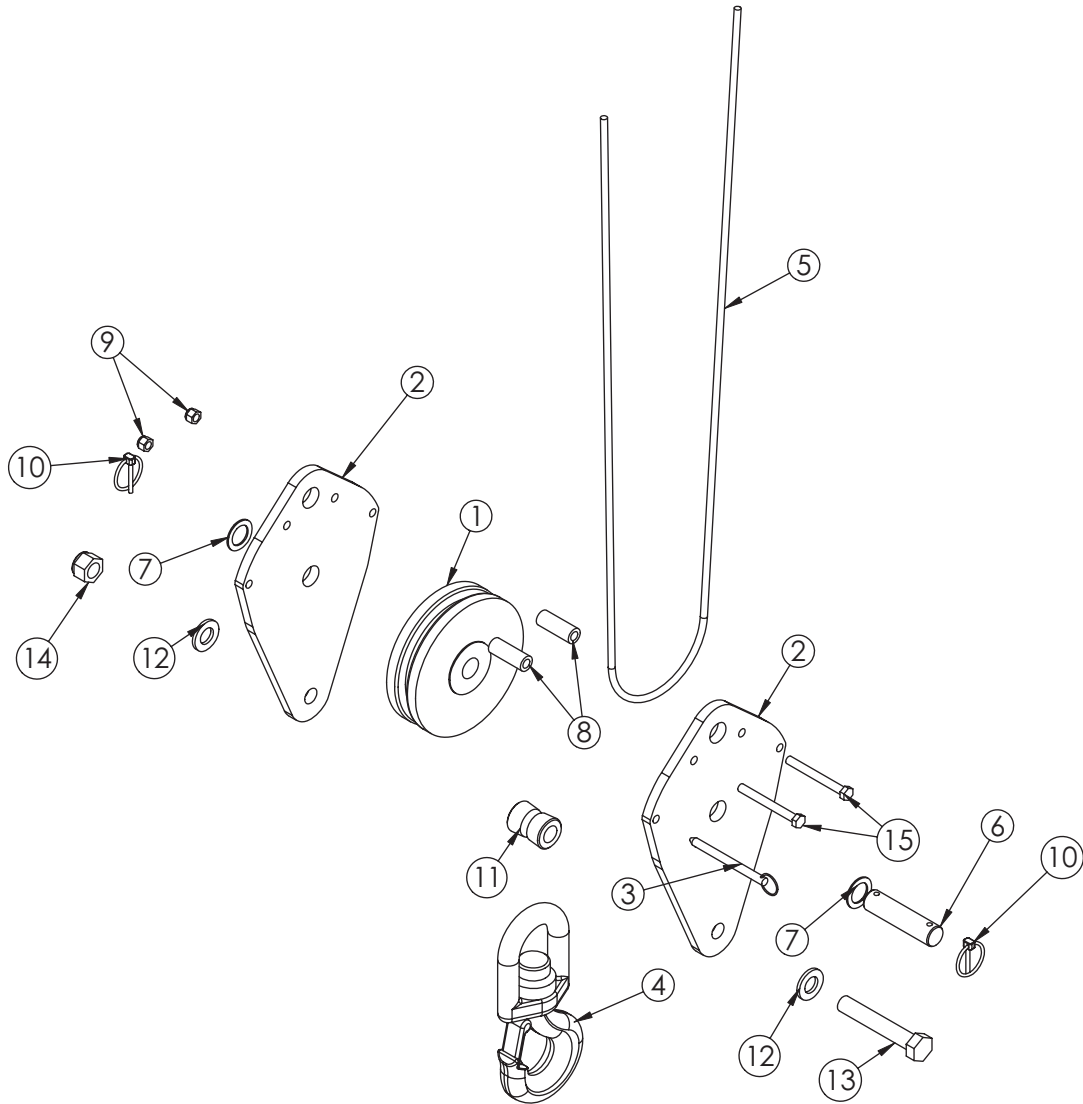
**C-BALANCE VALVE 9803
CYLINDER SEAL KIT 79124**

Extension Cylinder Assembly (1 Hyd/1 Manual) - PN 69431



ITEM	PART	DESCRIPTION	QTY.
1	69432	CYLINDER 1.50X60.00 4421 MANUAL	1
2	14115	MANIFOLD ASM 6620 EXT CBBB-LJN-XVN	1
3	11882	CAP SCR 0.38-16X1.75 SH ZC	2
4	14601	CAP SCR 0.38-16X2.25 SH ZC	1

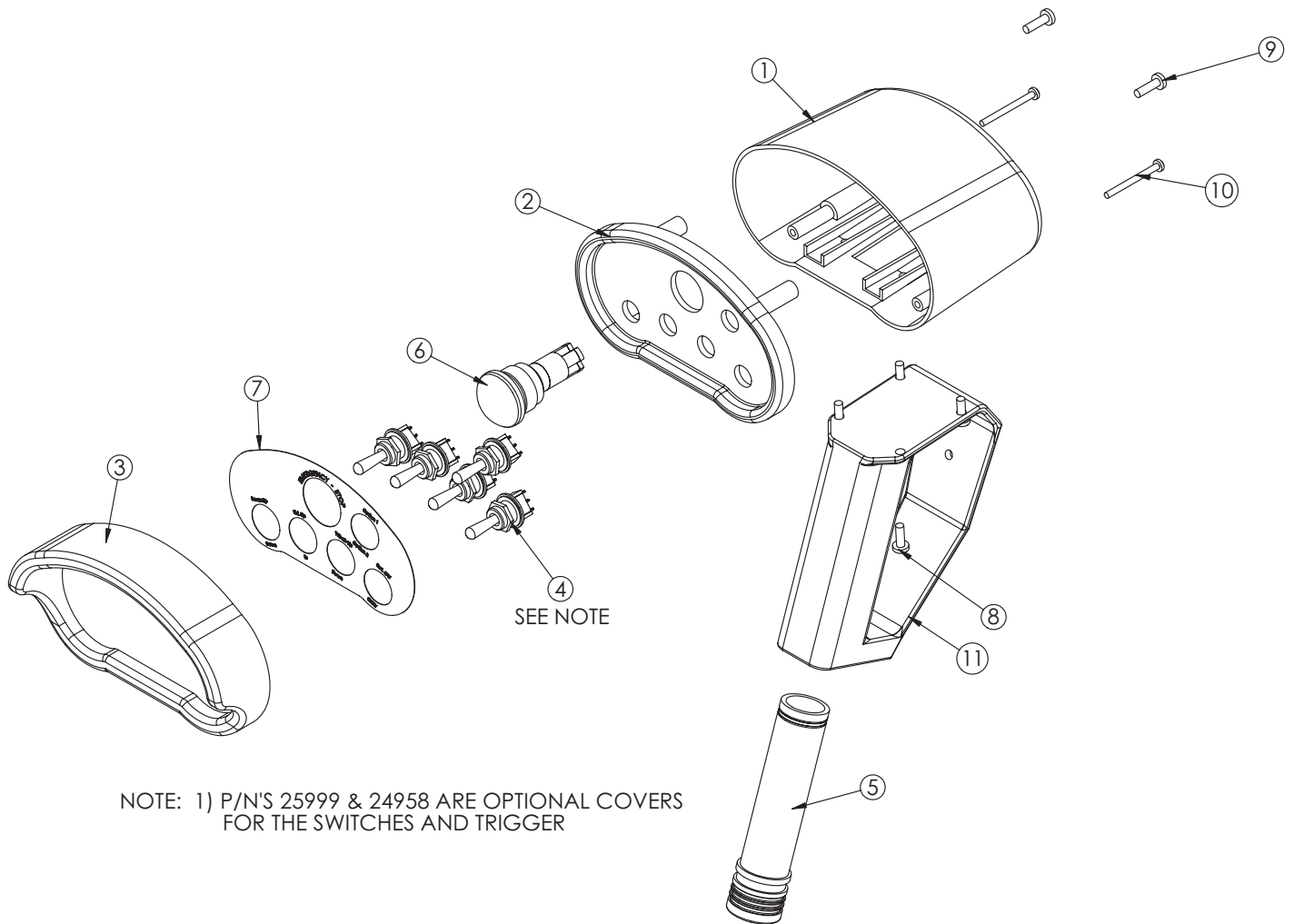
Cable & Hook Assembly - PN 57597



PN 57597

ITEM	PART	DESCRIPTION	QTY.
1	11545	SHEAVE 6620 6.75 DIA .31R/1.94 THK	1
2	57596PC	PLATE SNATCH BLOCK 5521	2
3	13436	PIN .38X4.00 QUICK RELEASE	1
4	25831	HOOK 5 TON SWIVEL CROSBY 1028623	1
5	9610	WIRE ROPE 0.31 6X19 IWRC-XIP 90FT	1
6	39874ZP	PIN 1.00X4.06 COTTER	1
7	0867	MACHY WASHER 1.00ID 14GA	2
8	44643PC	COLLAR 0.44X0.75X2.00	2
9	0347	NUT 0.38-16 HHGR5 NYLOC	2
10	5753	PIN 0.19X1.56 LYNCH	2
11	39844	BUSHING V HOOK	1
12	C6219	WASHER 0.75 SAE FLAT YELLOW GR8	2
13	5841	CAP SCR 0.75-10X4.50 HHGR8	1
14	C0538	NUT 0.75-10 HHGR8 NYLOC	1
15	0531	CAP SCR 0.38-16X3.50 HHGR5	2

5-Function Radio Transmitter Assembly - PN 67894



PN 67894

ITEM	PART	DESCRIPTION	QTY.
1	20088	CONTROL HANDLE HOUSING 4 FCTN HET	1
2	51830	CONTROL HANDLE FACE PLT 5 FCTN	1
3	24385	GUARD RADIO SWITCH 4 FCTN	1
4	22600	SWITCH TOGGLE HET RADIO 63019300	5
5	35441	BATTERY TUBE AA HETRONIC RADIO	1
6	16975	SWITCH E STOP ASM HETRONIC RADIO	1
7	51831	DECAL CONTROL HANDLE 5 FCTN	1
8	38475	SCREW 4MMX12MM PHMS PH	4
9	36156	SCREW 4MMX14MM PHMS PH	2
10	29460	SCREW 3MMX35MM PHMS PH	2
11	50932	CONTROL HANDLE GRIP LESS TRIGGER HET H2	1

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