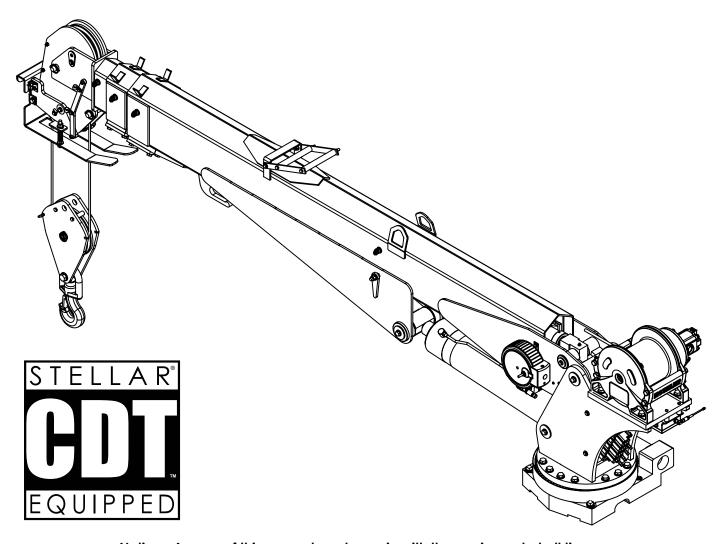


Model 9621 Telescopic Crane Owner's Manual

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

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rax: 641-923-2811 www.stellarindustries.com

Model 9621 Manual Revisions

Date of Revsion	Section Revised	Description of Revision
3/23/15	Chapter 3: Assembly Drawings	New Base, Gear Bearing, Mast Assemblies.
	Serial Tag Location	
PATENT INFORI http://www.stellarindu	MATION	
MADE IN THE	U.S.A. BY STELLAR INDUSTRIES, INC PN C594	42

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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:

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

▲WARNING

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

▲ DANGER

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

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 9621 Specifications

70,800 ft-lbs (9.79 TM) Crane Rating*:

11'0" (3.35 m) from CL of Crane Standard Boom Length:

> Hydraulic 60" (152.4 cm) 1st Stage: Boom Extension:

> > 2nd Stage: Hydraulic 60" (152.4 cm)

21' 0" (6.40 m) from CL of Crane Maximum Horizontal Reach:

Maximum Vertical Lift: 23' 0" (7.01 m) from Crane Base

37.75" (95.5 cm) Stowed Height (Crane Only):

20" x 21" (50.8 cm x 53.3 cm) Required Mounting Space:

9621 Standard Approximate Crane Weight: 2,235 lbs (1,015 kg)

> Radio control standard for all functions. Controls:

7/16" (1.11 cm) 6X19 IWRC-DGXXIP X 100' (30.48 m) Wire Rope:

Boom Elevation: -10° to +80°

Winch Specifications

60 ft/min (18.29 m/min) Line Pull Speed:

Max. Single Part Line: 4,500 lbs (2,040 kg)

9,000 lbs (4,080 kg) Max. Double Part Line:

400° Power Rotation (Worm Gear):

> 9,000 lbs @ 7'10" (4,080 kg @ 2.39 m) Lifting Capacity**:

> > 3,365 lbs @ 21' (1,525 kg @ 6.40 m)

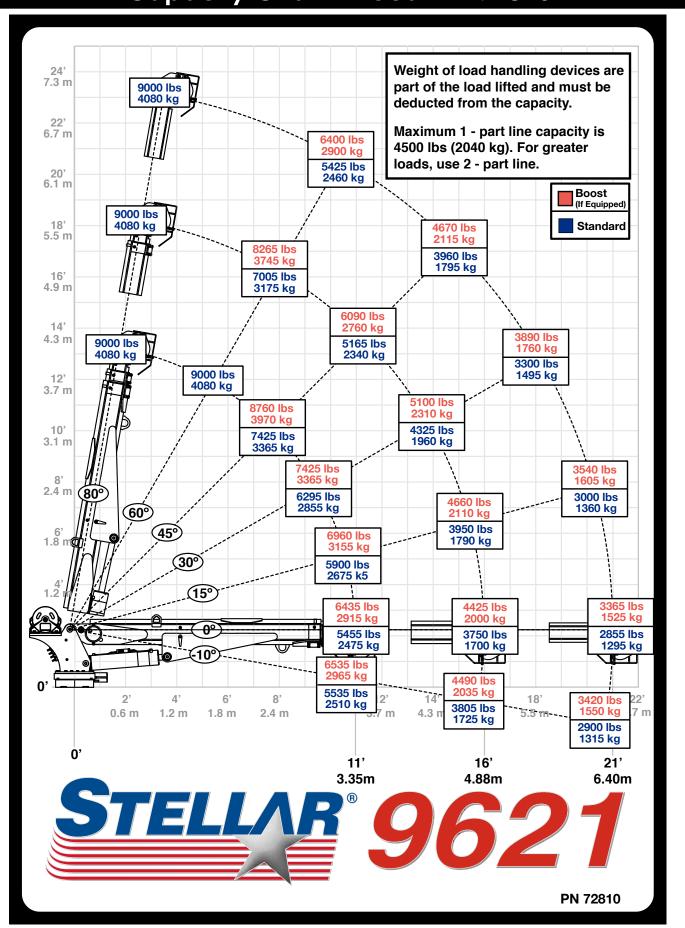
8 gpm @ 2,500 psi Power Supply: PTO & Pump:

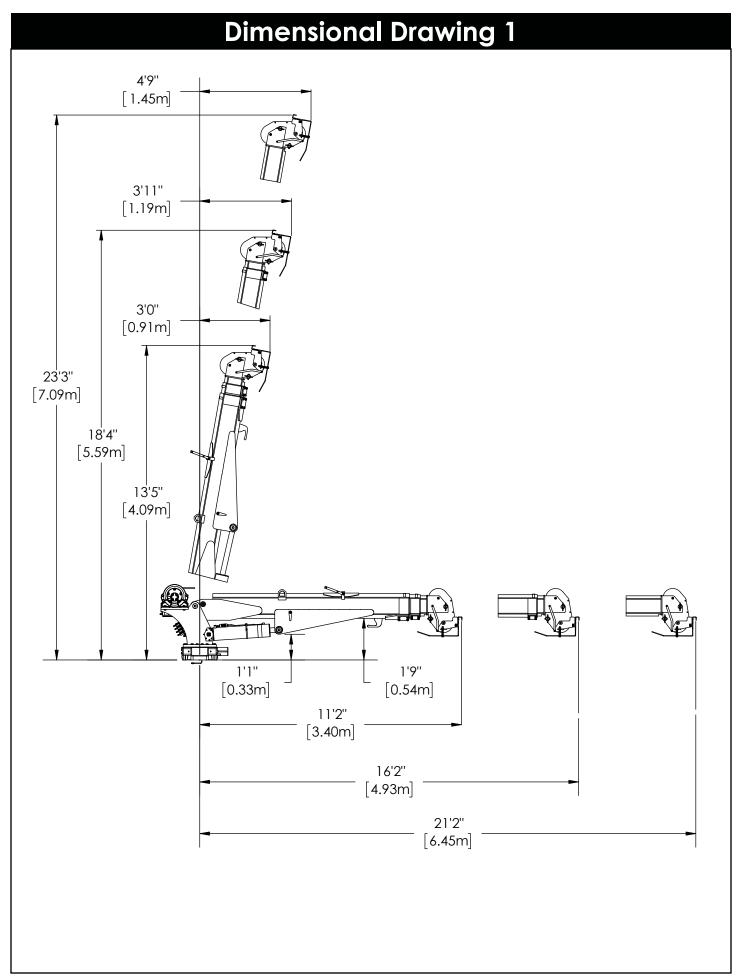
(30.3 lpm @ 172 bar)

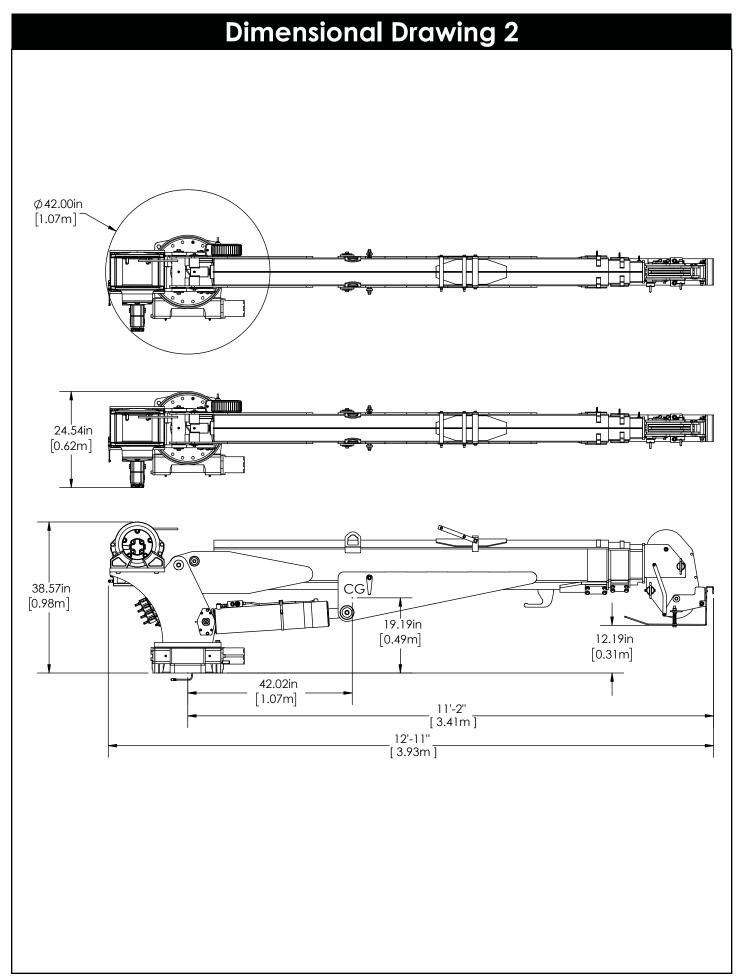
^{*}Crane rating in Boost Mode. Normal crane rating is 60,000 ft-lbs (8.30 TM).

^{**}Maximum capacities in Boost Mode.

Capacity Chart - Decal PN 72810







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Chapter 2 - Installation

General Installation

This chapter is designed to serve as a general guide for the installation of a Stellar 9621 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.

AWARNINGDo 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

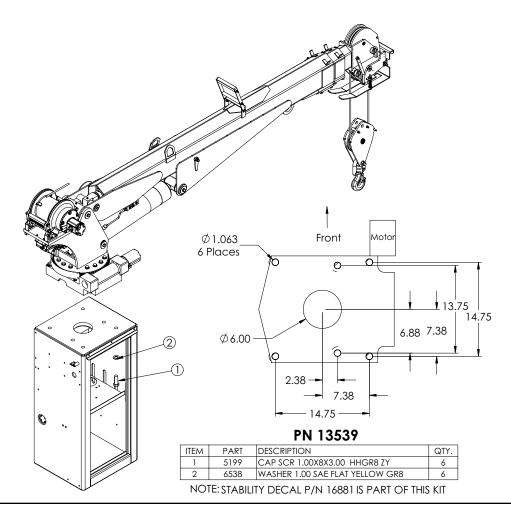
		GRA	DE 5	GRA	DE 8	GRADE 9
Size	Bolt DIA	Plain	Plated	Plain	Plated	Plated
(DIA-TPI)	(Inches)	(Ft-Lb)	(Ft-Lb)	(Ft-Lb)	(Ft-Lb)	(Ft-Lb)
5/16-18	0.3125	17	13	25	18	22
3/8-16	0.3750	31	23	44	33	39
7/16-14	0.4375	49	37	70	52	63
1/2-13	0.5000	75	57	105	80	96
9/16-12	0.5625	110	82	155	115	139
5/8-11	0.6250	150	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

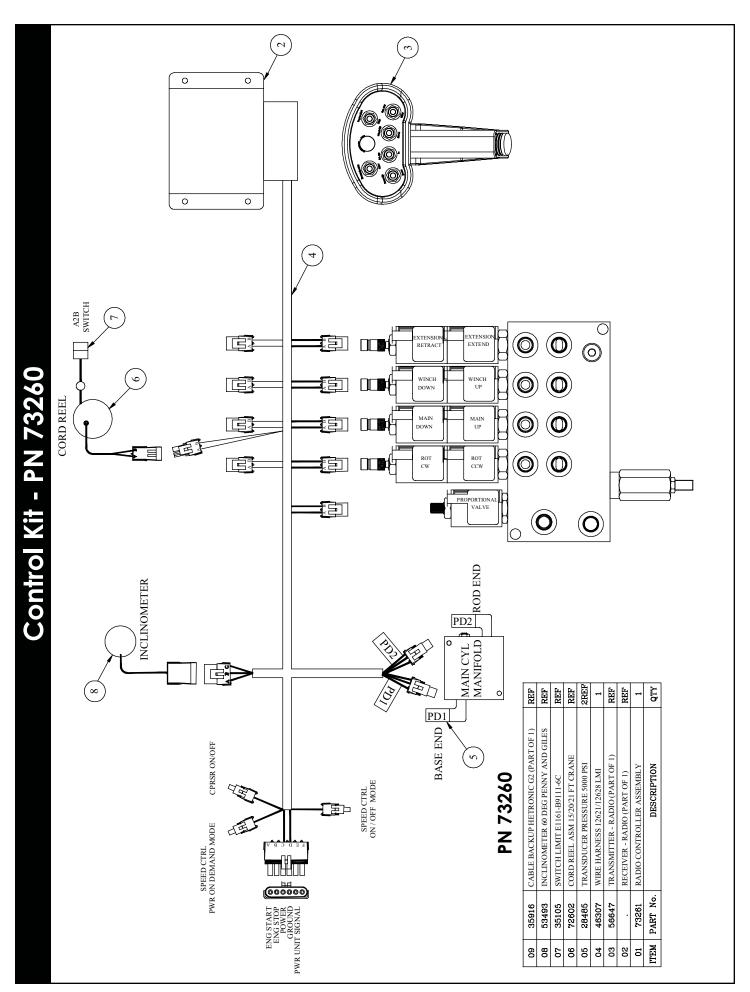
disulphite, colloidal copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.

- 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.

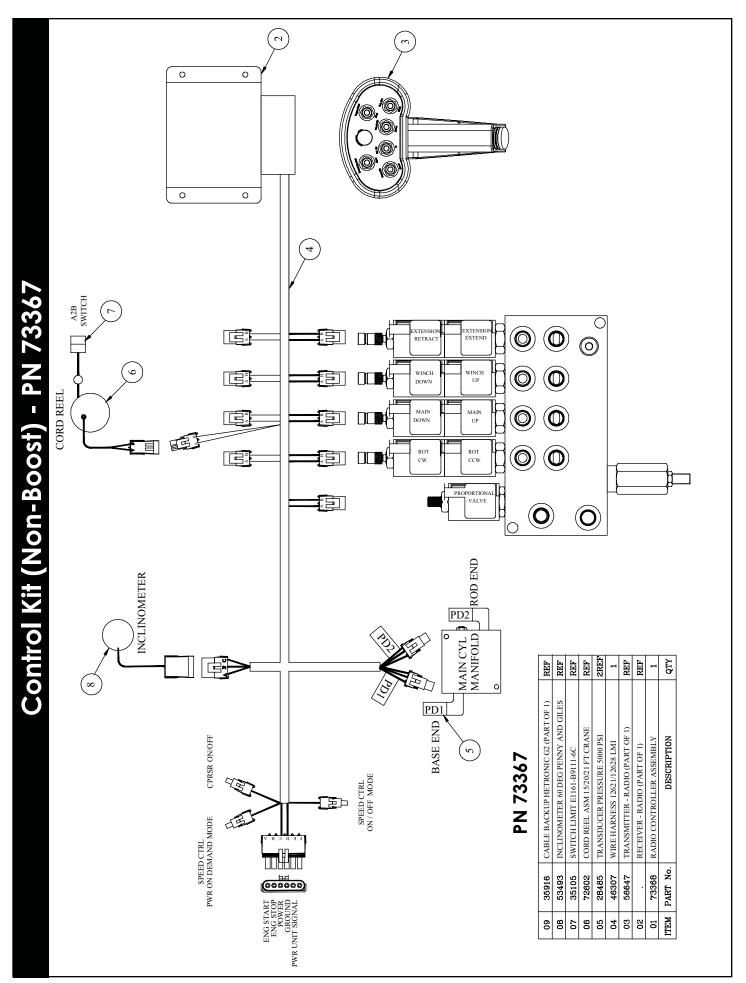
Installation Overview

- 1. Determine that the mounting location for the 9621 is at least 20" x 21" (50.8 x 50.8 cm).
- 2. Use the detail below to drill 1.06" 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 9621 weighs approximately 2,150 lbs (975 kg). Note: Cranes are shipped with rotation positioned at 200 degrees of 400 degree system. 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 9621.
- 5. Use six (6) 3" x 1" #8 bolts and six (6) #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 9621 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 1.75" – use grade 8, zinc plated cap screws only.
- 10. Torque the cap screws to 680 ft-lbs.
- 11. Remove supporting crane.
- 12. Hook-up hydraulics and electrical using the schematics provided in this chapter.



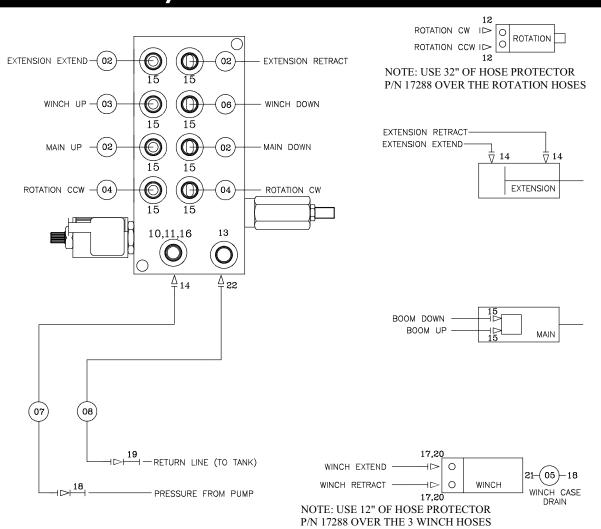


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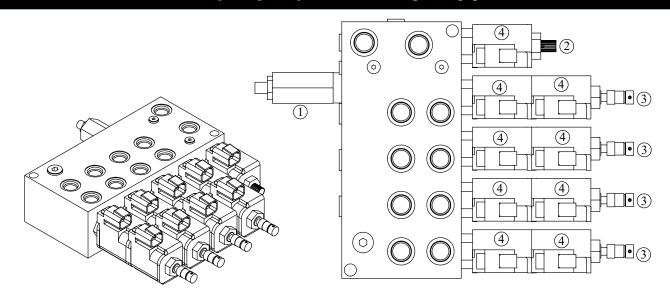
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Hydraulic Kit - PN 72758

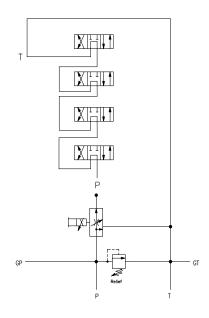


23						
22	C1175	FTG 8-8 MFS-MAORB 45	1			
21	C4929	FTG 6-4 MFS-MORB STRAIGHT				
20	C5547	FTG 6-8 MFS-MOARB 90				
19	12172	FTG 8-8 MFS-MFS SWIVEL STRAIGHT	1			
18	12171	FTG 6-6 MFS-MFS SWIVEL STRAIGHT	2			
17	D0549	FTG 16-8 MORB-FORB STRAIGHT REDUCER	2			
16	39780	GAUGE OIL LF 2.5 0-5000 CBM SAE	1			
15	0279	FTG 6-6 MFS-MORB STRAIGHT	10			
14	D1193	FTG 6-6 MFS-MAORB 45	3			
13	C4961	FTG 6 MORB PLUG HOLLOW HEX				
12	D1302	FTG 6-10 MFS-MAORB 90				
11	3861	FTG 6-6 MAORB-FORB 90				
10	15111	FTG 6-4 MORB-FORB STRAIGHT REDUCER				
09	17288	HOSE PROTECTOR 1.00 AS-B-27				
08	45438	HOSE-HYD .50 X 8 ↓	1ref			
07	45439	HOSE-HYD .38 X 9	1ref			
06	52276	HOSE-HYD .38 X 25	1ref			
05	52486	HOSE-HYD .38 X 36	1ref			
04	71903	HOSE-HYD .38 X 39	2ref			
03	13029	HOSE-HYD .38 X 22.50	1ref			
02	13028	HOSE-HYD .38 X 17				
01	71901	HOSE KIT 76/96/106/126 (incl:2-8)	1			
ITEM	PART No.	DESCRIPTION	QTY			

Valve Bank - PN 52265



HYDRAULIC SCHEMATIC



PN 52265

ITEM	PART	DESCRIPTION	QTY	TORQUE
1	25367	RELIEF VALVE 24685/24690	1	37 FT LBS
	25368	SEAL KIT 25367		
2	24960	VALVE FLW CTRL PRP/JP04C3150N 0-8	1	20-22 FT LBS
	25369	SEAL KIT 24960/25381		
3	25371	VALVE SOLND 3 POS 4 WAY TAND G04571	4	25 FT LBS
	25373	SEAL KIT 25371/25372		
4	44532	COIL 12VDC DUETSCH CAP012H	9	3 FT LBS

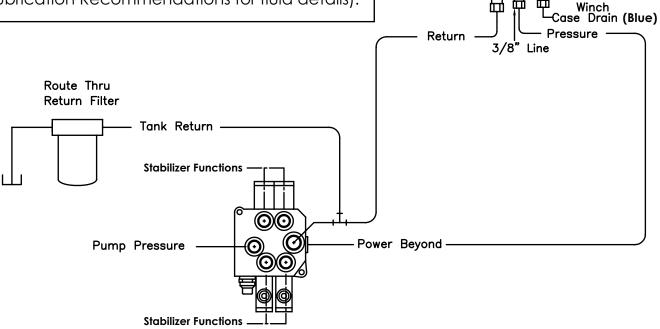
NOTE: PN's 24960 & 25371 DO NOT INCLUDE COIL PN 44532

Hydraulic Installation



Follow the instructions presented on this page. Failure to follow these instructions may result in death or serious injury.

- After mounting, locate the pressure and return lines. Note: Pressure line is 3/8" hose; Winch Case Drain Line is 3/8" hose; Return line is 1/2" hose. Hoses are terminated using swivel fittings.
- Install hydraulic lines per diagram below. See next page for Case Drain Installation. 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).



1/2" Line

3/8" Line

Typical Stabilizer Valve with Power Beyond Capabilities

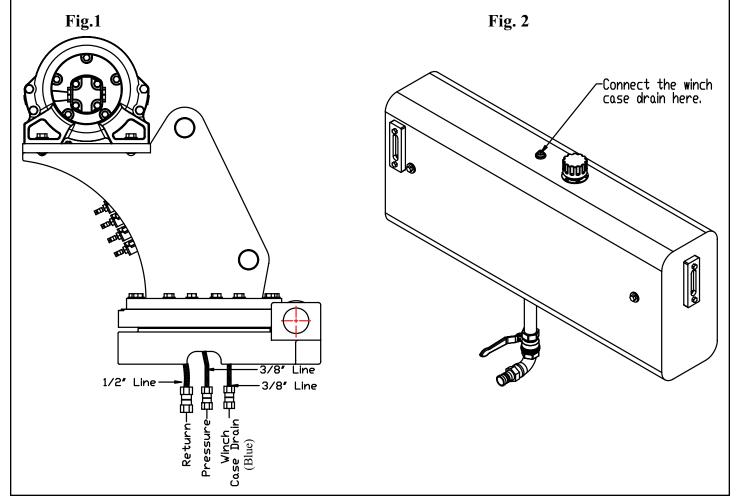
Winch Case Drain Installation

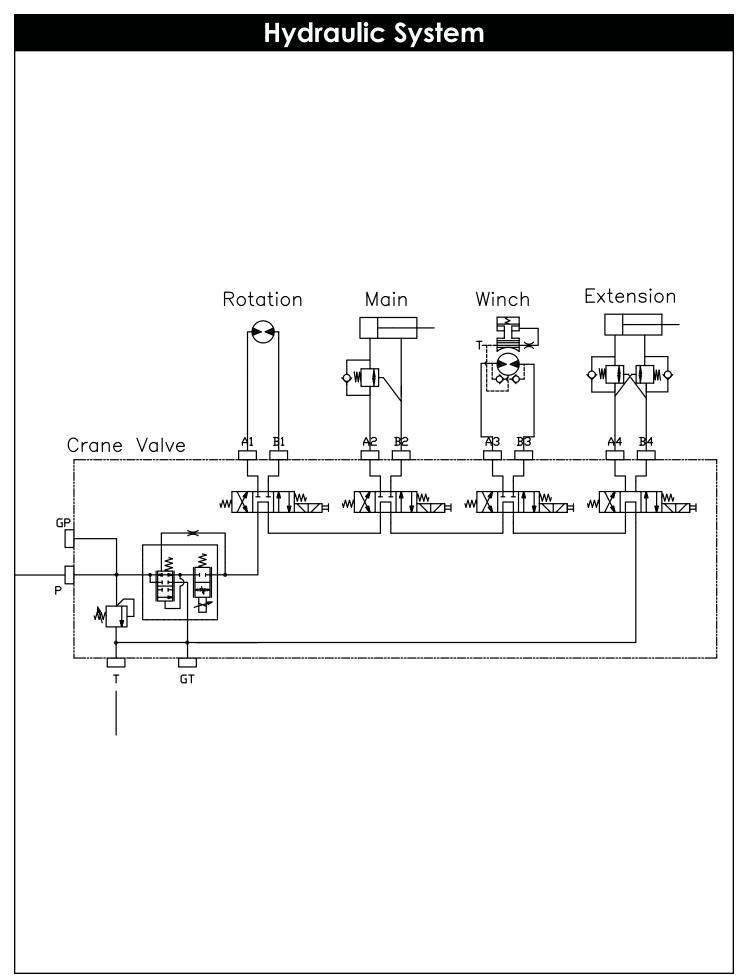
AWARNING

Follow the instructions presented on this page. Failure to follow these instructions may result in death or serious injury.

Installing the winch case drain

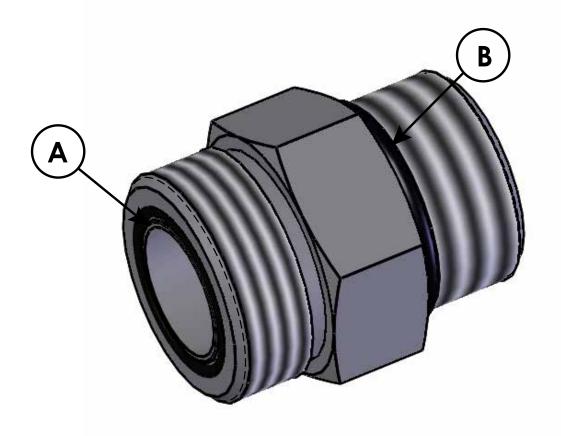
- 1. The winch case drain must run directly to the reservoir to ensure no back pressure in the line.
- 2. Use 3/8" hydraulic hose and fittings rated for a minimum of 300 psi.
- **3.** Locate the winch case drain line at the bottom of the crane base as shown in Fig. 1 (Blue Hose). Note: Both the main pressure and winch case drane line use a 3/8" swivel fitting. Verify the winch case drain is attached to the hose that is connected to the winch motor.
- **4.** Attach one end of the winch case drain to 3/8 swivel fitting located in step 3.
- **5.** Route the winch case drain hose directly to the reservoir.
- **6.** Connect the second end of the winch case drain to unshared fitting on the top of the reservoir as shown in Fig 2.





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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 bottom four switches up and hold until all lights come on (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...

9621 Stability Data

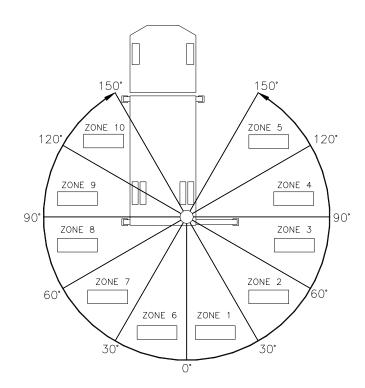
Max Horizontal Reach: 251" (From the center of rotation to boom tip)

Boost Stability Test Weight: 3,970 lbs. **Non-Boost Stability Test Weight:** 3,365 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:

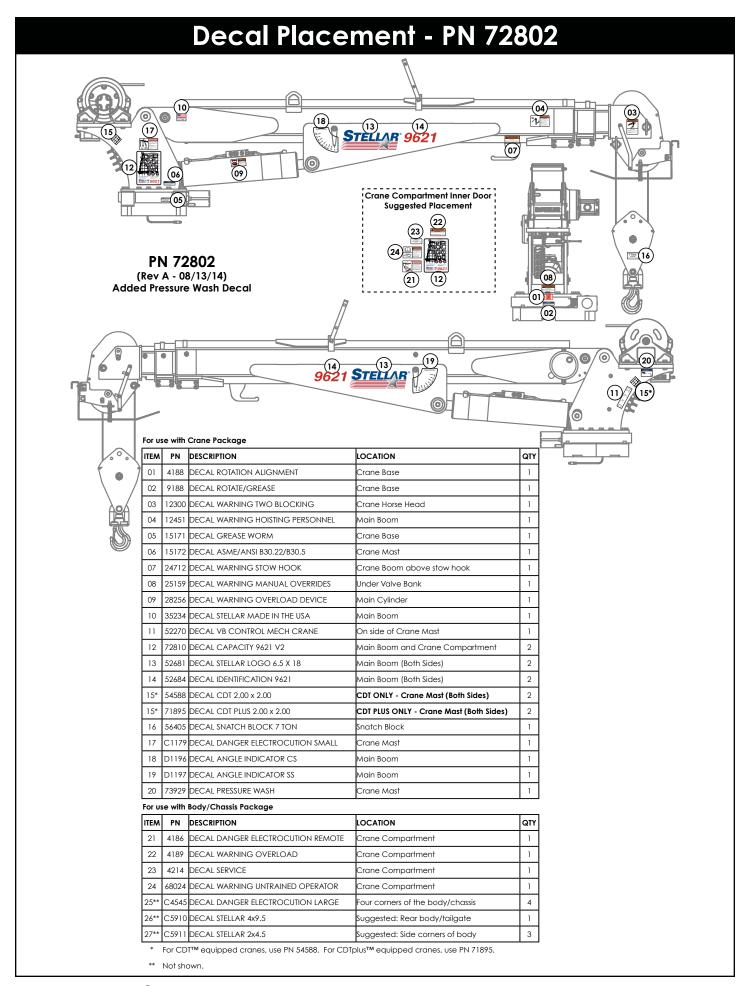


Stable Horizontal Reach

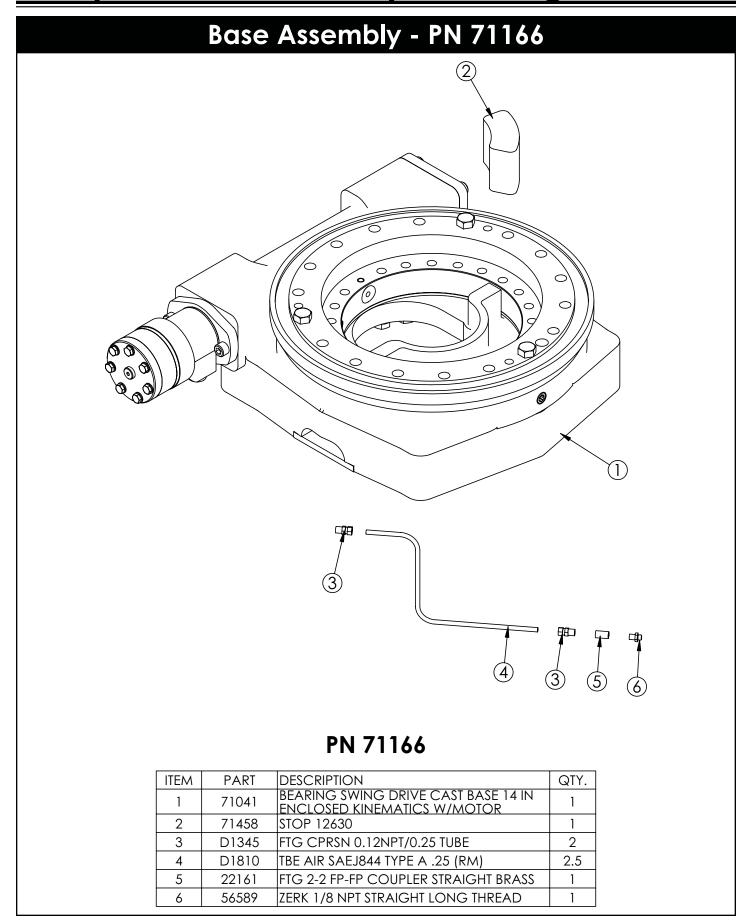
x 100 = Percentage of Rated Capacity

Max Horizontal Reach

- 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.



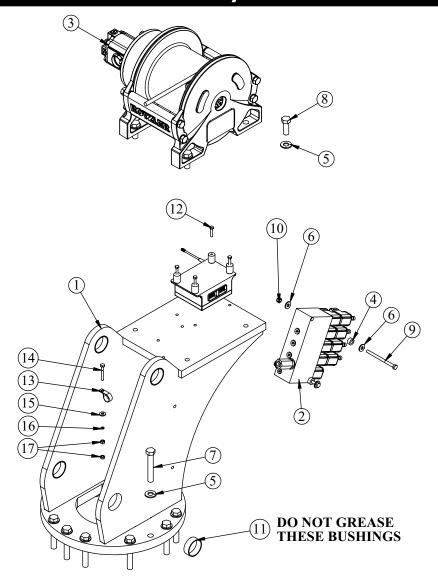
Chapter 3 - Assembly Drawings



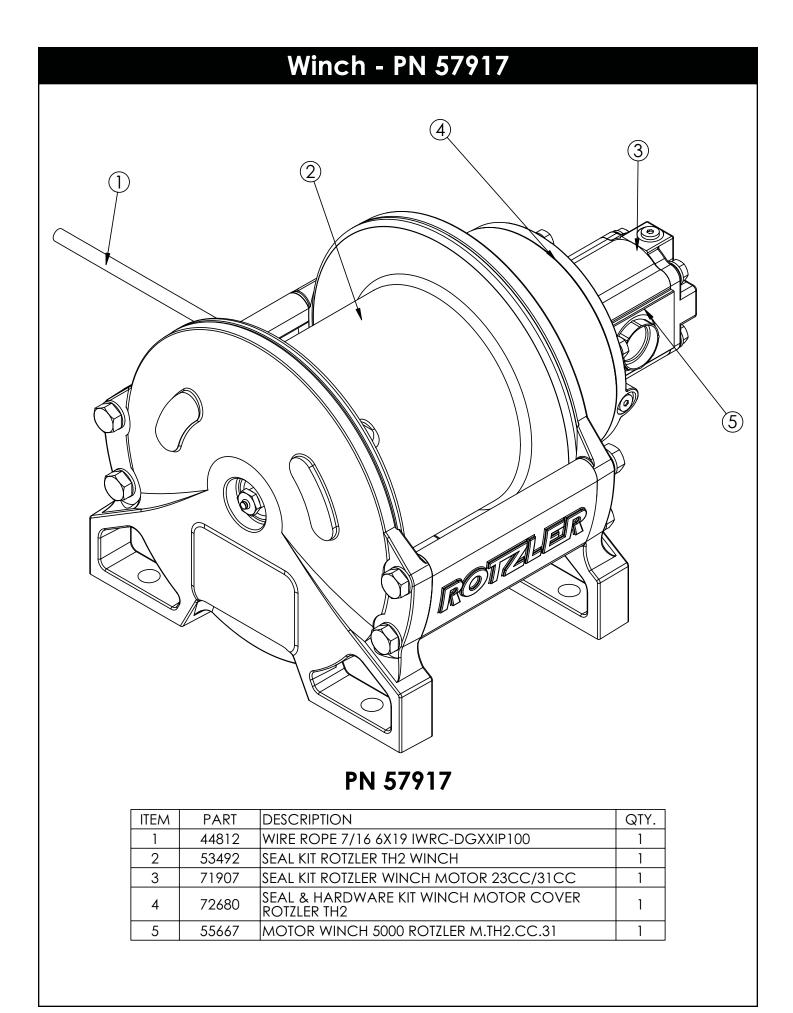
Gear Bearing - PN 71041 3

ITEM	PART	DESCRIPTION	QTY.
1	77891	BEARING KIT 14IN ENCLOSED CAST BASE KNMTS	1
2	77892	WORM 14IN ENCLOSED CAST BASE KNMTS	1
3	77895	MOTOR 160CC 1IN KEYED	1

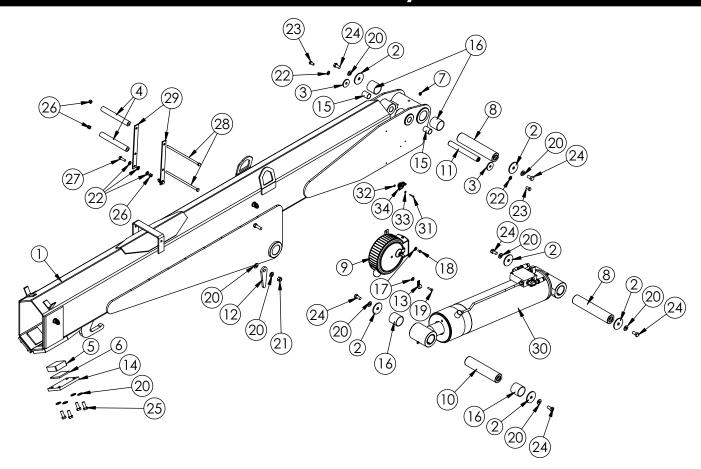
Mast Assembly - PN 72799



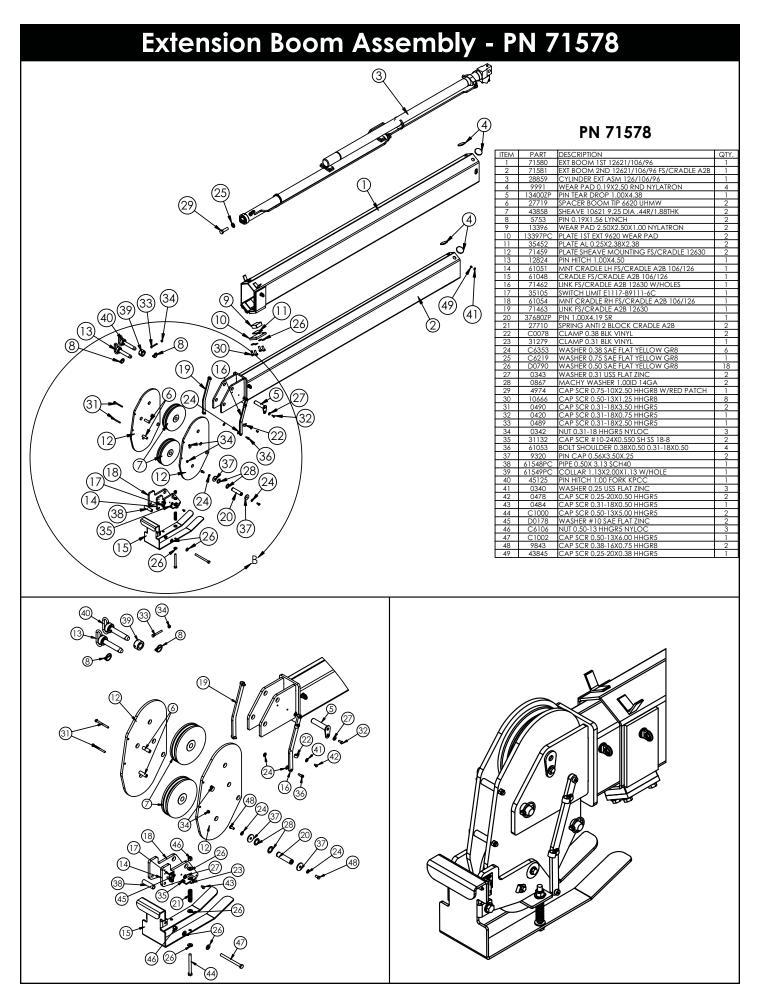
ITEM	PART	DESCRIPTION	QTY.
1	70824	MAST 126/106/96/76	1
2	52265	VB 4 SECT W/PROP STER8GPM DEUTSCH	1
3	57917	WINCH 5000 TH2CC00243 W/100 FT ROPE	1
4	27813	COLLAR 0.38X0.75X0.38 UHMW	2
5	C5902	WASHER 0.63 SAE FLAT YELLOW GR8	18
6	0343	WASHER 0.31 USS FLAT	4
7	77555	CAP SCR 0.63-11X4.00 HHGR8 W/RED PATCH	14
8	11693	CAP SCR 0.63-11X1.75 HHGR8	4
9	C0933	CAP SCR 0.31-18X4.50 HHGR5	2
10	0342	NUT 0.31-18 HHGR5 NYLOC	2
11	44533	BUSHING COMPOSITE 2.00X0.75	4
12	52490	CAP SCR 6MMX30MM HH 8.8(GR5)	4
13	C5946	HOSE CLAMP #8 RUBBER COATED	1
14	0481	CAP SCR 0.25-20X2.00 HHGR5	1
15	0340	WASHER 0.25 USS FLAT	1
16	0521	WASHER 0.25 LOCK	1
17	0533	NUT 0.25-20 HHGR5	2



Main Boom Assembly - PN 72762

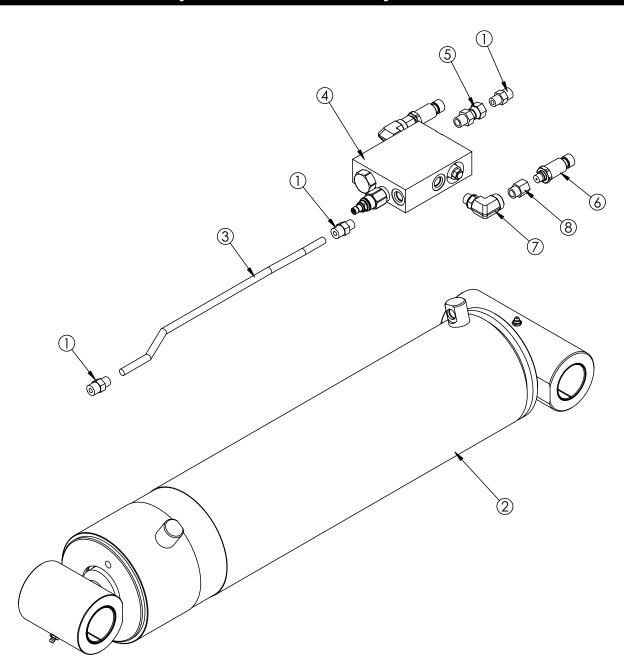


ITEM PART DESCRIPTION		QTY.	ITEM	PART	DESCRIPTION	QTY.	
1	71579	INNER BOOM 12621/106/96	1	13	C0078	CLAMP 0.38 BLK VINYL	1
2	9142	PIN CAP 0.56X2.50X0.19	6	14	13398PC	PLATE WEAR PAD SUPPORT 9620	2
3	9320	PIN CAP 0.44X1.75X0.19 SS	2	15	0068	BUSHING BPC16DXR24 1.00X1.50	2
4	27720	SPACER ROPE GUIDE 6620 UHMW	2	16	4381	BUSHING BPC32DXR32 2.00X2.00	4
5	13395	WEAR PAD 3.00X3.00X1.00 NYLATRON	2	17	0340	WASHER 0.25 USS FLAT ZINC	2
6	35451	PLATE AL 0.25X2.88X2.88	2	18	0478	CAP SCR 0.25-20X0.50 HHGR5	1
7	c1592	ZERK 1/8 NPT STRAIGHT	1	19	0480	CAP SCR 0.25-20X1.00 HHGR5	1
8	9709CR	PIN 2.00X10.19 D&T	2	20	D0790	WASHER 0.50 SAE FLAT YELLOW GR8	18
9	72602	CORD REEL ASM 15/21 FT CRANE	1	21	C6106	NUT 0.50-13 HHGR5 NYLOC	2
10	9711CR	PIN 2.00X8.88 D&T	1	22	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	8
11	9712CR	PIN 1.00X8.38 SR/D&T	1	23	9843	CAP SCR 0.38-16X0.75 HHGR8	2
12	D1194	PLATE ANGLE INDICATOR	2	24	10172	CAP SCR 0.50-13X1.00 HHGR8	6
				25	10666	CAP SCR 0.50-13X1.25 HHGR8	8
				26	0347	NUT 0.38-16 HHGR5 NYLOC	4
				27	0335	CAP SCR 0.38-16X1.25 HHGR5	2
				28	12168	CAP SCR 0.38-16X9.00 HHGR5	2
				29	69470PC	BRKT ROPE GUIDE 4421	2
				30	71162	CYLINDER ASM 5.50X22.50 ROT EXT PORT	1
				31	18618	SCREW #6-32X1.00 PHMS PH	2
				32	D0076	NUT #6-32 HH NYLOC SS	2
				33	18765	WASHER #6 SAE FLAT ZINC	2
				34	53493	INCLINOMETER 60 DEG	1



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Main Cylinder Assembly - PN 72610



PN 72610

ITEM	PART	DESCRIPTION	QTY.
1	0279	FTG 6-6 MFS-MORB STRAIGHT	3
2	71163	CYLINDER 5.50X22.50 ROT EXT PORT	1
3	72757	TUBE ASM 0.38 X 15.47	1
4	41910	MANIFOLD ASM MAIN CYL CDT	1
5	33743	FTG 6-6 FFSS-MORB STRAIGHT	1
6	28485	TRANSDUCER PRESSURE 5000 PSI	2
7	3861	FTG 6-6 MAORB-FORB 90	2
8	15111	FTG 6-4 MORB-FORB STRAIGHT REDUCER	2

Extension Cylinder Assembly - PN 28859 Cylinder Serial Tag Location P/N 28859 ITEM PART DESCRIPTION 1 13980P CYLINDER 13980 PAINTED QTY. 14442 TUBE ASM 0.38X23.25 EXT CYL 6620 14443 TUBE ASM 0.38X102.25 EXT CYL 6620 14115 MANIFOLD ASM 6620 EXT CBBD-LJN-XVN 14601 CAP SCR 0.38-16X2.25 SH ZC 11882 CAP SCR 0.38-16X1.75 SH ZC 18701 CLAMP PORT TUBE ZR518 24729 HOSE CLAMP #52 3.00 - 3.75 C4660 HOSE CLAMP #24 SS

Cable & Hook Assembly - PN 55898 4 (6) 8 26.50 PN 55898 **ITEM PART DESCRIPTION** QTY. 43858 SHEAVE 10621 9.25 DIA .44R/1.88THK 2 53263PC PLATE SNATCH BLOCK 76/96/106/126 2 39874ZP PIN 1.00X4.06 COTTER 4 44643 COLLAR 0.44X0.75X2.00 2 5 2 0347 NUT 0.38-16 HHGR5 NYLOC C0538 NUT 0.75-10 HHGR8 NYLOC 1 0532 CAP SCR 0.38-16X3.75 HHGR5 2 8 5841 CAP SCR 0.75-10X4.50 HHGR8 1 2 9 C6219 WASHER 0.75 SAE FLAT YELLOW GR8 10 0867 MACHY WASHER 1.00ID 14GA 2 11 39844ZP BUSHING V HOOK SS 1 12 5753 2 PIN 0.19X1.56 LYNCH 13 26762 HOOK 7 TON SWIVEL CROSBY 1028632 14 13436 PIN .38X4.00 QUICK RELEASE

CDT™ Radio Transmitter Assembly - PN 56647 SEE NOTE NOTE: 1) P/N'S 25999 & 24958 ARE OPTIONAL COVERS FOR THE SWITCHES AND TRIGGER

ITEM	PART	DESCRIPTION	QTY.
1	20088	CONTROL HANDLE HOUSING 4 FCTN HET	1
2	56657	CONTROL HANDLE FACE PLT W/LABEL 6 FCTN CDT	1
3	24385	GUARD RADIO SWITCH 4 FCTN	1
4	35447	CONTROL HANDLE GRIP W/TRIGGER HT H2	1
5	24958	RUBBER BOOT TRIGGER GUARD HET	1
6	22600	SWITCH TOGGLE HET RADIO 63019300	6
7	35441	BATTERY TUBE AA HETRONIC RADIO	1
8	47856	SWITCH E STOP NOVA XL	1