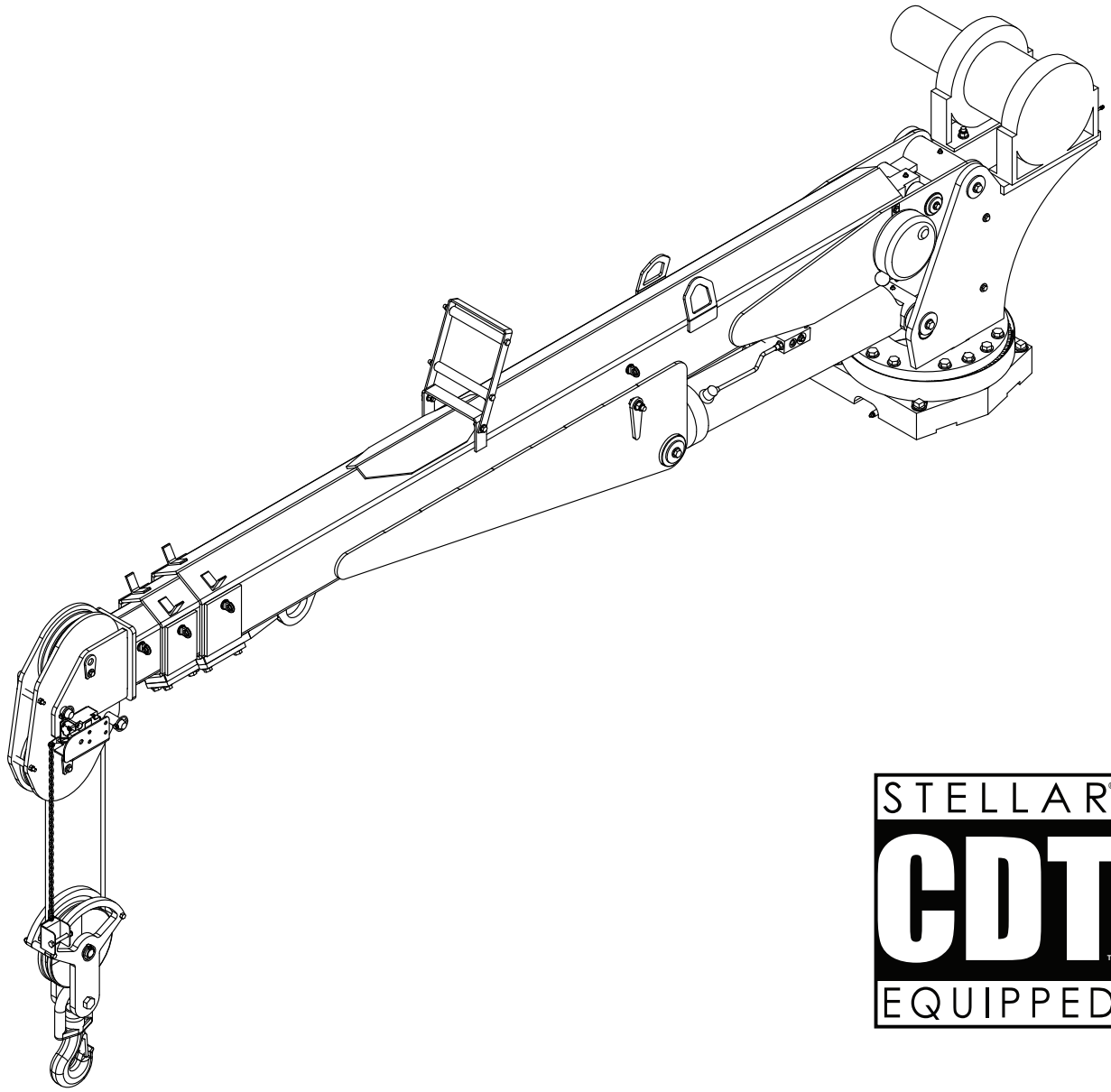
# Model 10628
## Telescopic Crane Owners' Manual

*Installation • Assembly Drawings • Parts*



STELLAR® CDT™ EQUIPPED

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Last Revision: 04/25/11

# 10628 Manual Revisions

| Date of Revision | Section Revised | Description of Revision |
|---|---|---|
| | | |

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**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 |

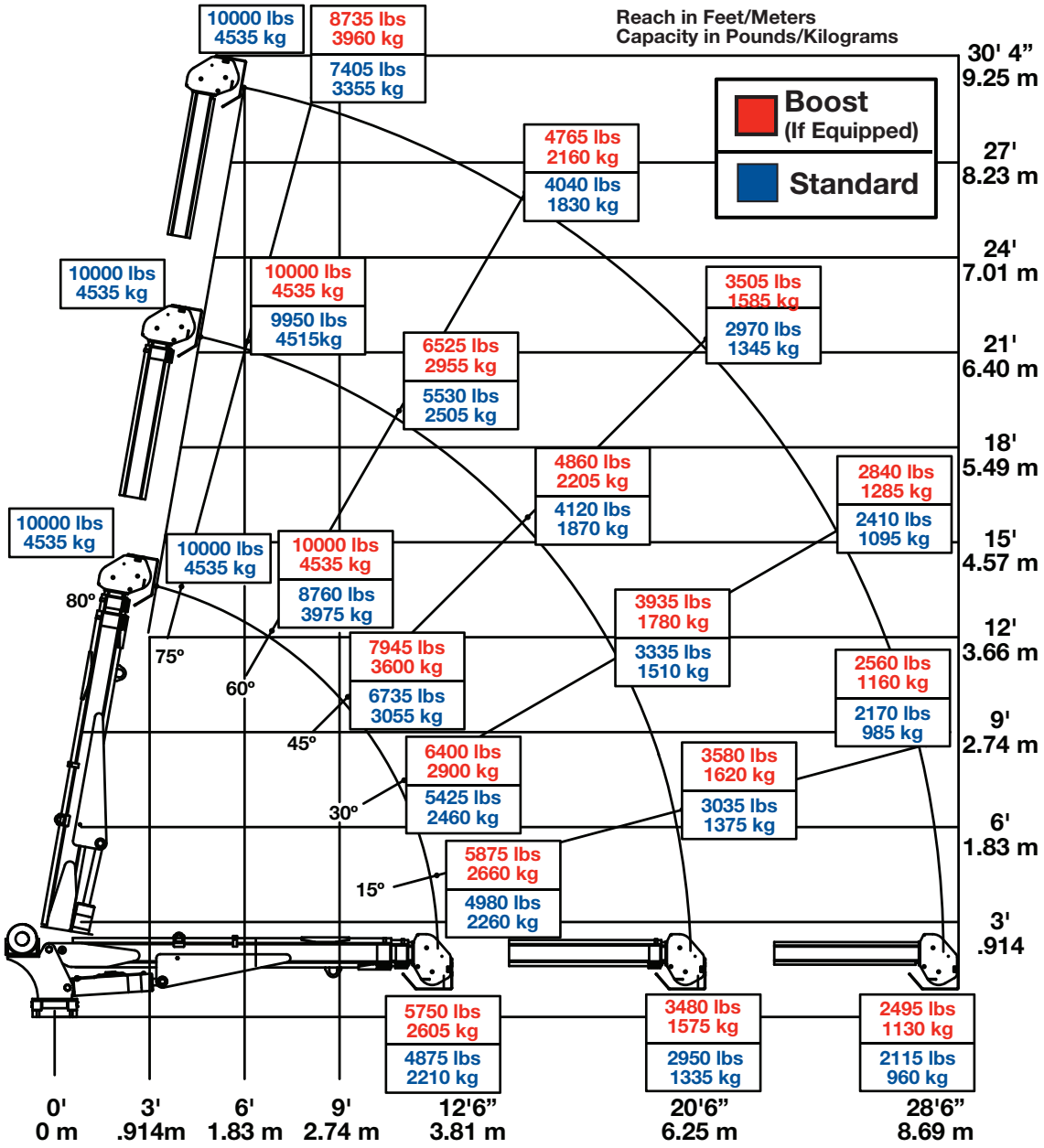
# Chapter 1 - Specifications

**Model 10628 Crane**
**SPECIFICATION SHEET**

| | |
|---|---|
| Crane Rating: | 60,000 ft-lbs (8.29 TM) |
| Standard Boom Length: | 12' 6" (3.81 m) from CL of Crane |
| Boom Extension: | 1st stage: Hydraulic 96" (243.8 cm)<br>2nd stage: Hydraulic 96" (243.8 cm) |
| Maximum Horizontal Reach: | 28' 6" (8.69 m) from CL of Crane |
| Maximum Vertical Lift:<br>(from crane base) | 30' 4" (9.24 m) |
| Boom Elevation: | -5 to +80 degrees |
| Stowed Height:<br>(crane only) | 35" (88.9 cm) |
| Mounting Space Required: | 20" x 21" (50.8 x 53.3 cm) |
| Approximate Crane Weight: | 2900 lbs (1315 kg) |
| Controls: | Radio control standard for all functions. |
| Winch Specifications | |
| Rope Diameter: | 7/16" (1.11 cm) |
| Line pull speed: | 60 ft/min (18.29 m/min) |
| Max. single part line: | 5000 lbs (2268 kg) |
| Max. double part line: | 10,000 lbs (4535 kg) |
| Rotation:<br>(worm gear) | 400 degree power |
| Lifting Capacities: | 4875 lbs @ 12' 6" (2210 kg @ 3.81 m)<br>2950 lbs @ 20'6" (1335 kg @ 6.25 m)<br>2115 lbs @ 28' 6" (960 kg @ 8.69 m) |
| Power Supply Required: | PTO & Pump<br>(8 gpm @ 3000 psi)<br>(30.3 lpm @ 207 bar) |

*Subject to change without notification

# Capacity Chart - Decal PN 54496




Weight of load handling devices are part of the load lifted and must be deducted from the capacity.

Maximum 1 - part line capacity is 5000lbs (2270kg). For greater loads, use 2 - part line.

STELLAR® 10628

PN 54496

# Chapter 2 - Installation

## Notice: Read this Page Before Installation of the Crane

### General Installation

This chapter is designed to serve as a general guide for the installation of a Stellar 10628 Telescopic 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.

**Notice:**
PTO and Pump installation instructions are provided by the corresponding manufacturers. For more information on which PTO and Pump fit your application, please contact your local Stellar Distributor or Stellar Customer Service.

**Important: 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.**

### Installation 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.

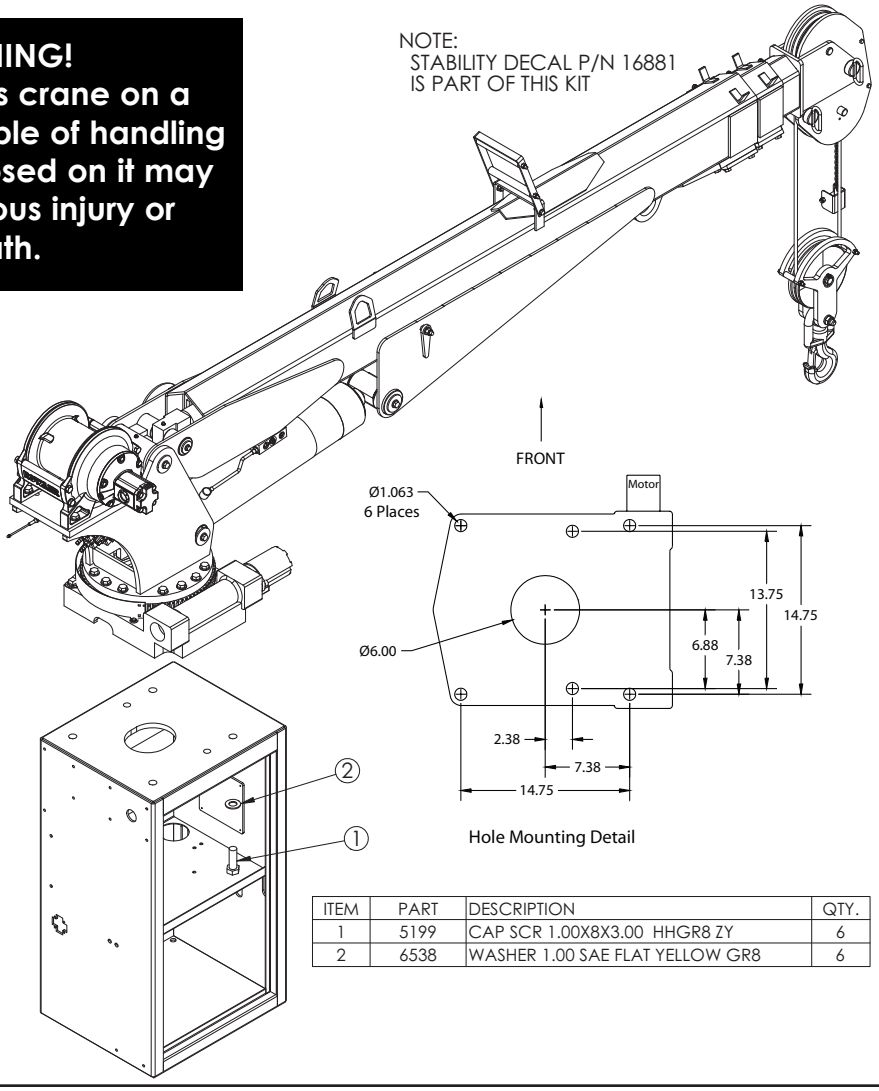
Therefore, the installer of Stellar cranes and bodies is considered one of the manufacturers of the vehicle. As such a manufacturer, the installer is responsible for compliance with all applicable federal and state regulations. They are required to certify that the vehicle is in compliance with the Federal 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.

# Installation Overview

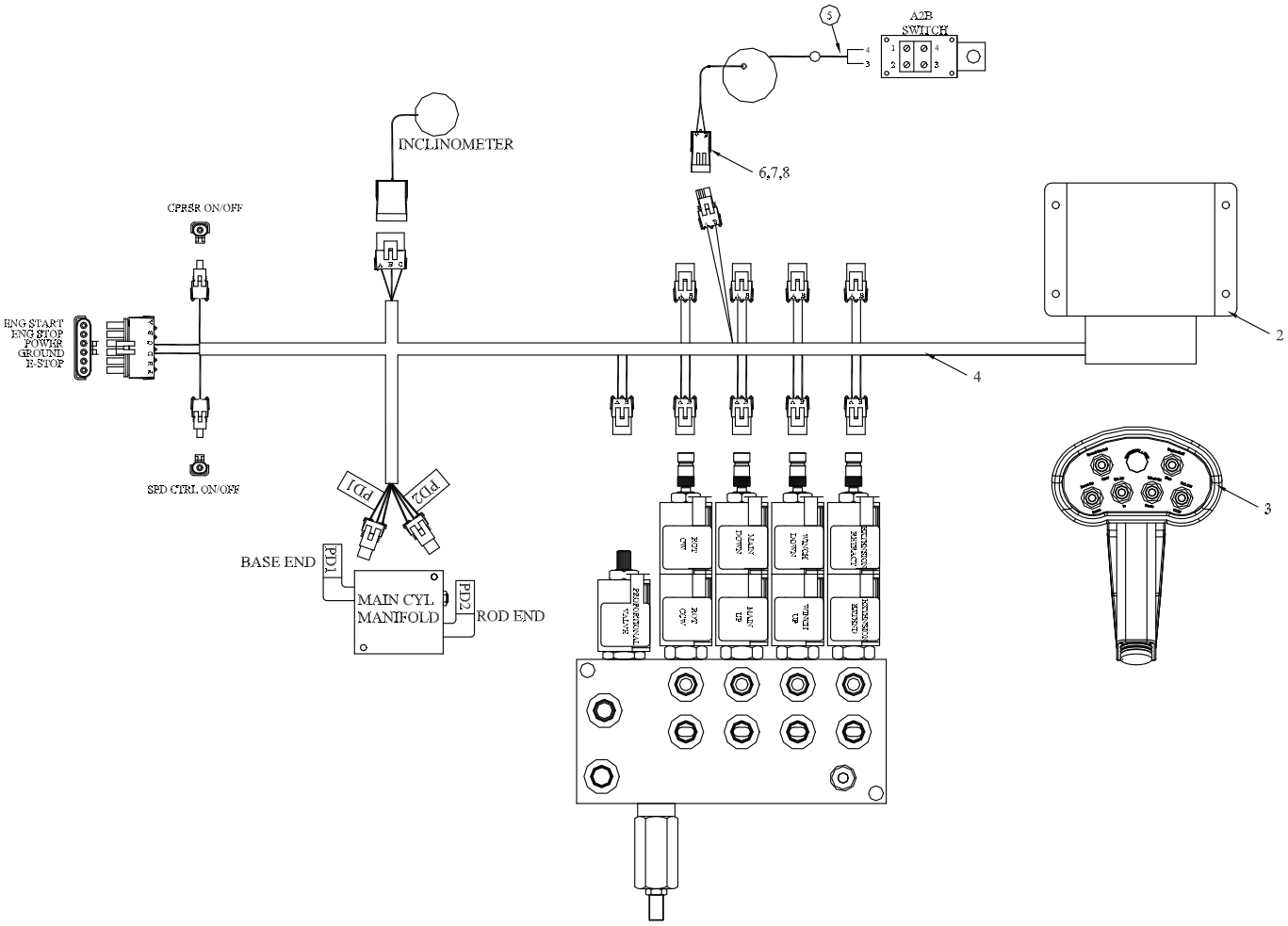
1. Determine that the mounting location for the 10628 crane is at least 20" x 21" (50.8 x 50.8 cm).
2. Use the detail below to drill 1.06" diameter holes into the mounting plate. Run tap on the threads of the base to be sure they are clean.
3. Use a crane or lifting device capable of lifting the weight of the Stellar crane. The Stellar 10628 weighs approximately 2900 lbs (1315 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 Stellar 10628.
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 Stellar 10628 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 *Chapter 8 - Hydraulics - Electrical*. **Note: If questions should arise during any portion of this installation, please contact Stellar Customer Service at (800) 321-3741.**

**WARNING!**
**The use of this crane on a body not capable of handling the loads imposed on it may result in serious injury or death.**




| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 5199 | CAP SCR 1.00X8X3.00 HHGR8 ZY | 6 |
| 2 | 6538 | WASHER 1.00 SAE FLAT YELLOW GR8 | 6 |

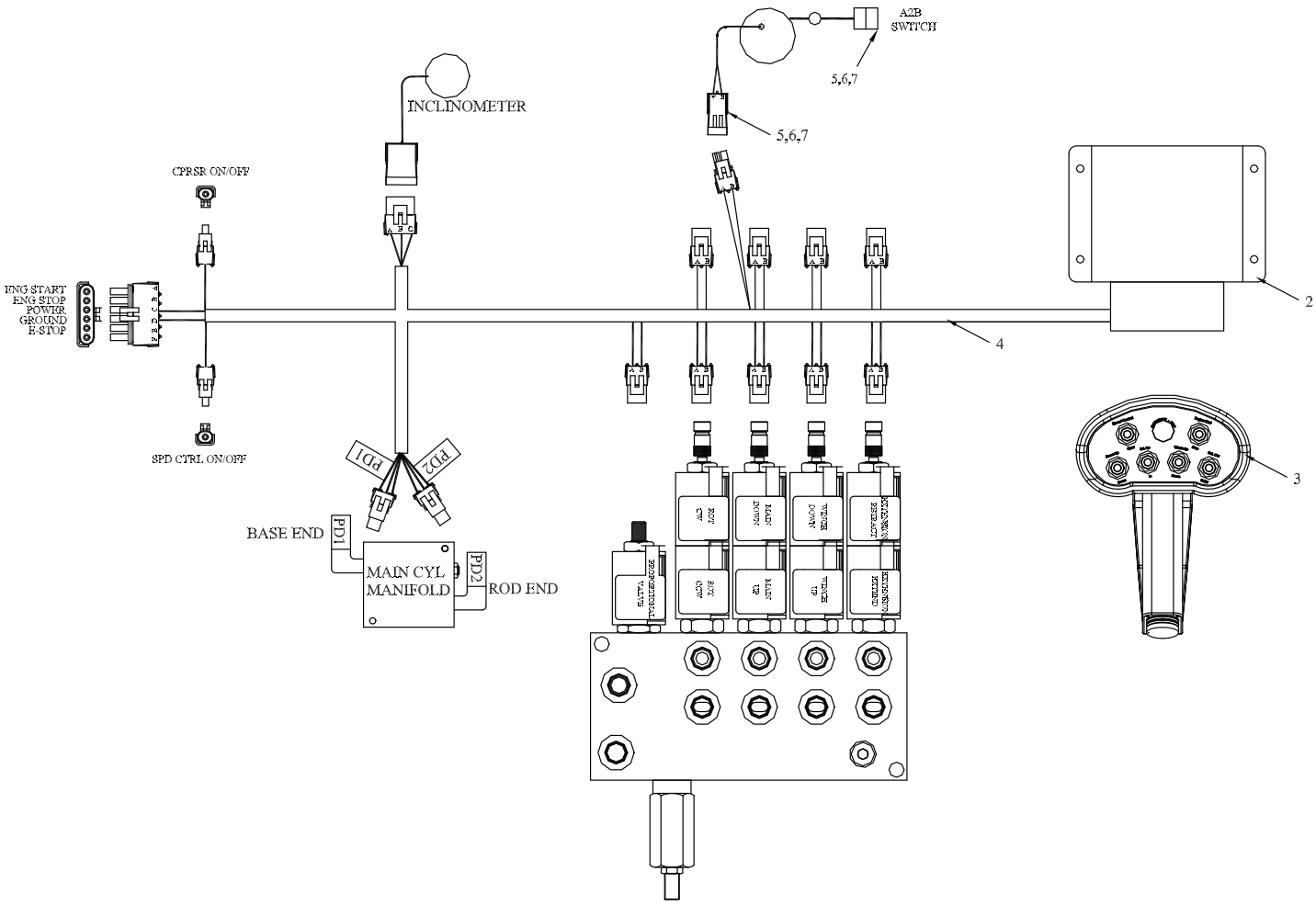
# Control Kit (Flip Sheave Version) - PN 52871




**PN 52871**

| 08 | 10978 | CONTACT M/TERM SHROUD | 2 |
|---|---|---|---|
| 07 | 8384 | CABLE SEAL | 2 |
| 06 | 9752 | CONNECT 2 PIN SHROUD | 1 |
| 05 | 10965 | CABLE GROMMET | 1 |
| 04 | 46307 | WIRE HARNESS 12621/12628 LMI | 1 |
| 03 | . | TRANSMITTER - RADIO (PART OF 1) | REF |
| 02 | . | RECEIVER - RADIO (PART OF 1) | REF |
| 01 | 52262 | RADIO CONTROLLER ASSEMBLY | 1 |
| ITEM | PART No. | DESCRIPTION | QTY |

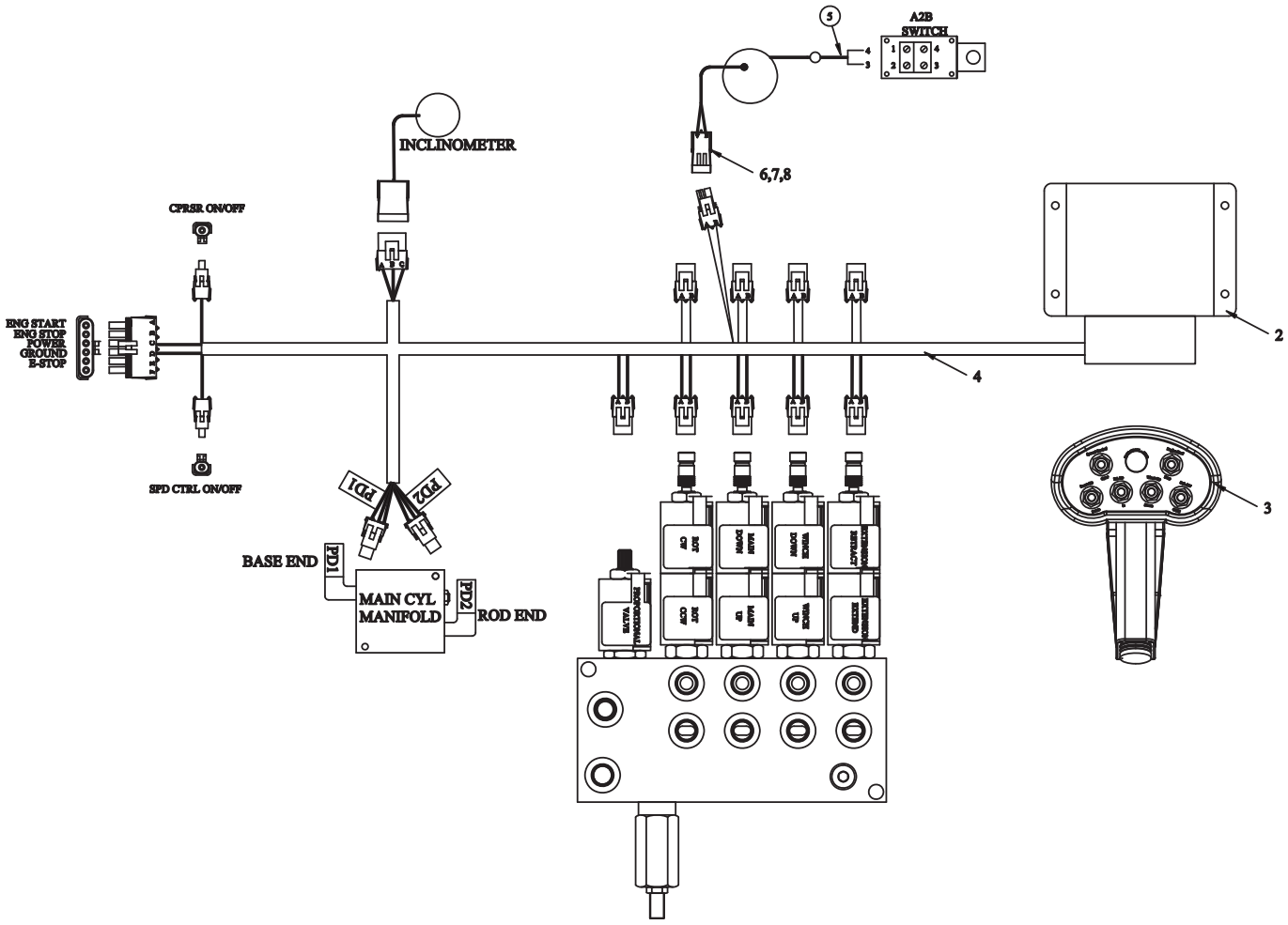
# Control Kit (Cradle A2B Version) - PN 52870




## PN 52870

| ITEM | PART No. | DESCRIPTION | QTY |
|---|---|---|---|
| 07 | 8384 | CABLE SEAL | 4 |
| 06 | 9752 | CONNECT 2 PIN SHROUD | 2 |
| 05 | 10978 | CONTACT M/TERM SHROUD | 4 |
| 04 | 46307 | WIRE HARNESS 12621/12628 LMI | 1 |
| 03 | . | TRANSMITTER - RADIO (PART OF 1) | REF |
| 02 | . | RECEIVER - RADIO (PART OF 1) | REF |
| 01 | 52262 | RADIO CONTROLLER ASSEMBLY | 1 |

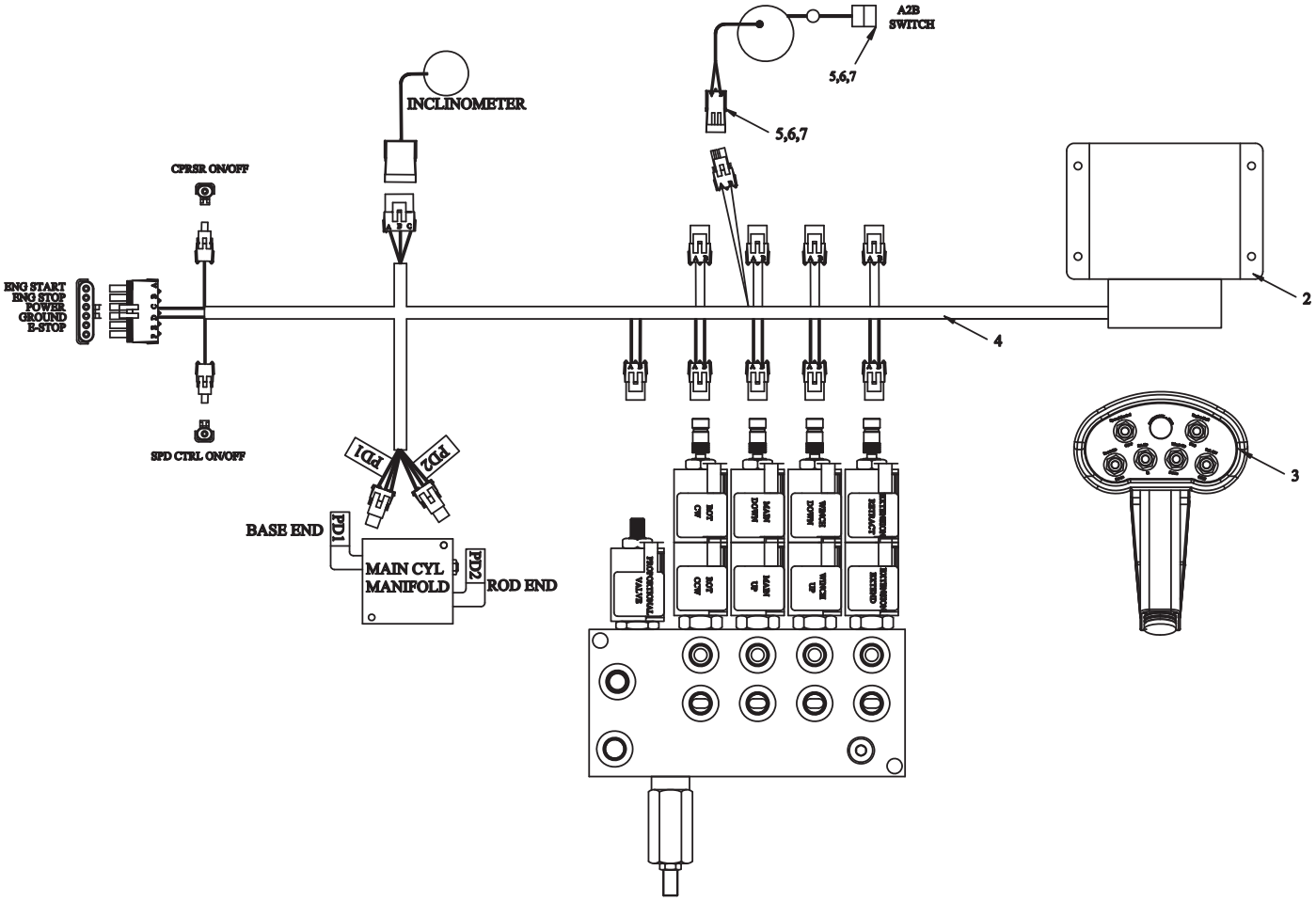
# Control Kit (Flip Sheave/Non-Boost) - PN 55824




**PN 55824**

| 08 | 10978 | **CONTACT M/TERM SHROUD** | 2 |
|---|---|---|---|
| 07 | 8384 | **CABLE SEAL** | 2 |
| 06 | 9752 | **CONNECT 2 PIN SHROUD** | 1 |
| 05 | 10965 | **CABLE GROMMET** | 1 |
| 04 | 46307 | **WIRE HARNESS 12621/12628 LMI** | 1 |
| 03 | . | **TRANSMITTER - RADIO (PART OF 1)** | REF |
| 02 | . | **RECEIVER - RADIO (PART OF 1)** | REF |
| 01 | 55980 | **RADIO CONTROLLER ASSEMBLY** | 1 |
| ITEM | PART No. | DESCRIPTION | QTY |

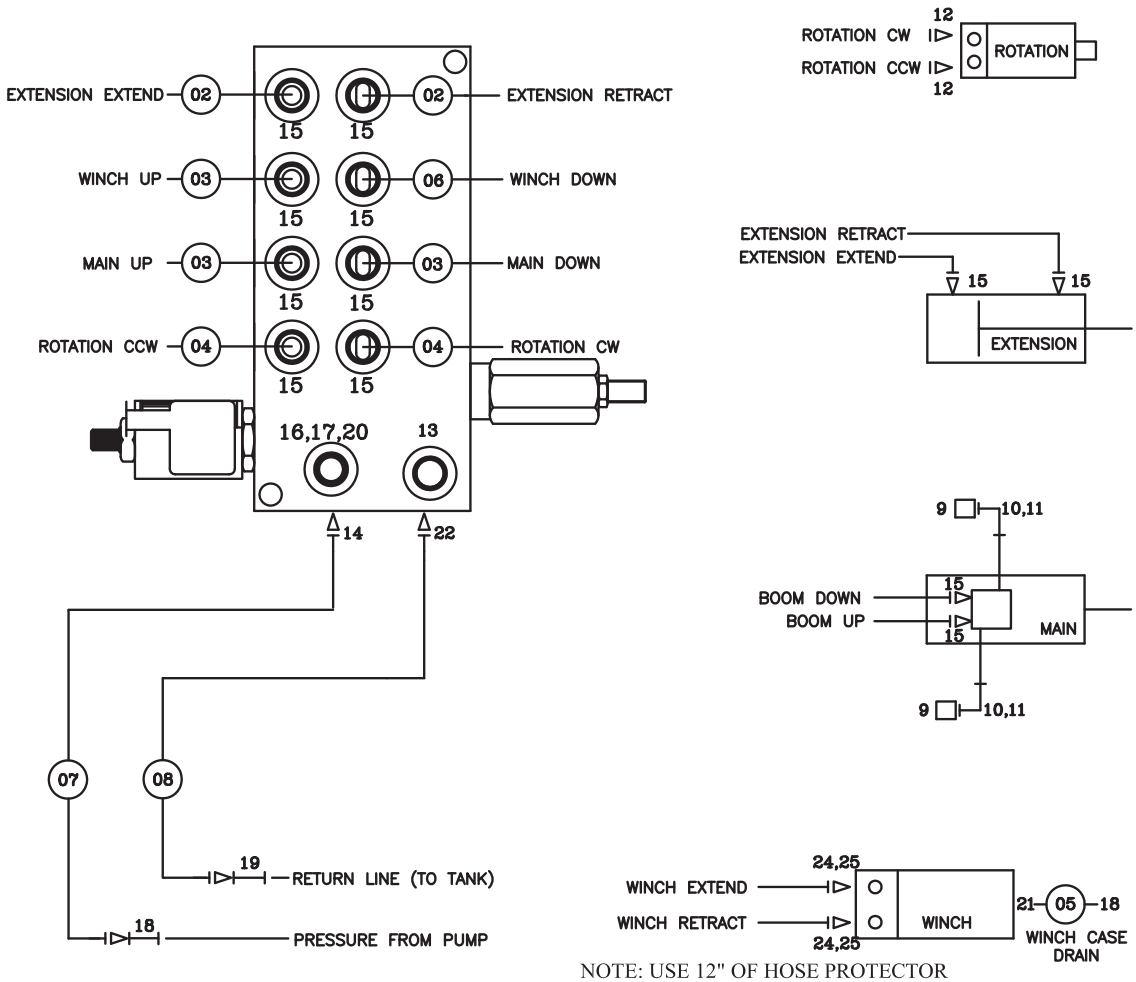
# Control Kit (Cradle A2B/Non-Boost) - PN 58291




**PN 58291**

| 07 | 8384 | **CABLE SEAL** | 4 |
|---|---|---|---|
| 06 | 9752 | **CONNECT 2 PIN SHROUD** | 2 |
| 05 | 9756 | **CONTACT M/TERM SHROUD** | 4 |
| 04 | 46307 | **WIRE HARNESS 12621/12628 LMI** | 1 |
| 03 | . | **TRANSMITTER - RADIO (PART OF 1)** | REF |
| 02 | . | **RECEIVER - RADIO (PART OF 1)** | REF |
| 01 | 52261 | **RADIO CONTROLLER ASSEMBLY** | 1 |
| ITEM | PART No. | DESCRIPTION | QTY |

# Hydraulic Kit - PN 52264



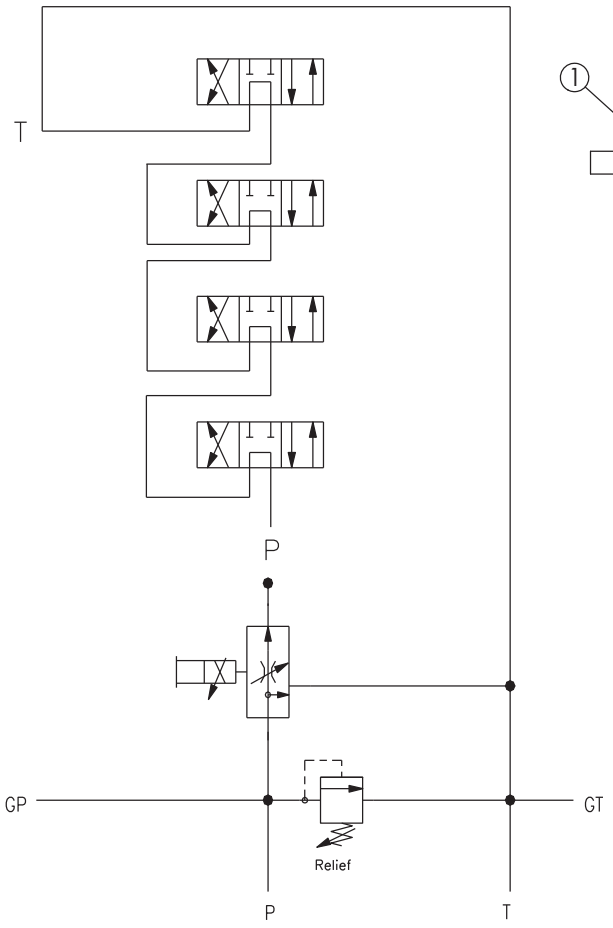

NOTE: USE 12" OF HOSE PROTECTOR
P/N 17288 OVER THE 3 WINCH HOSES

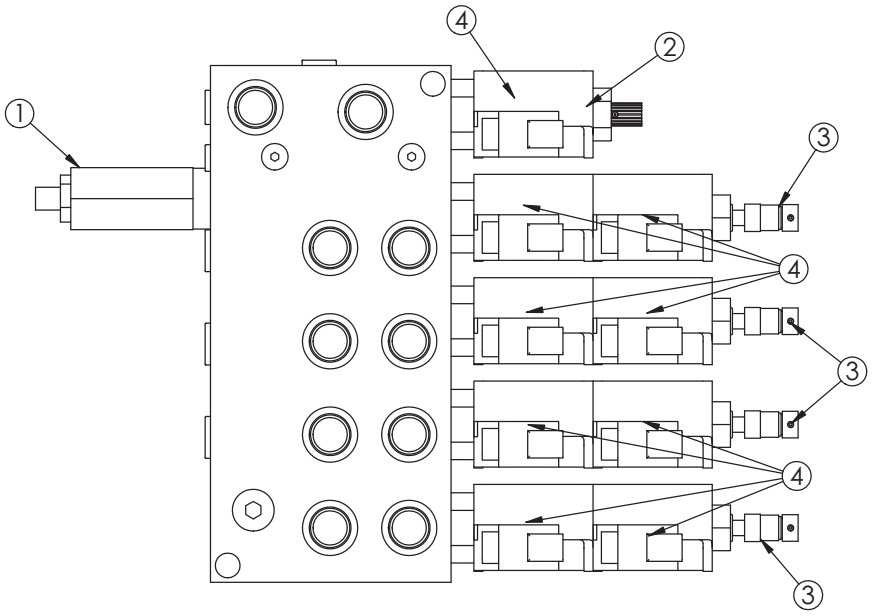
## PN 52264

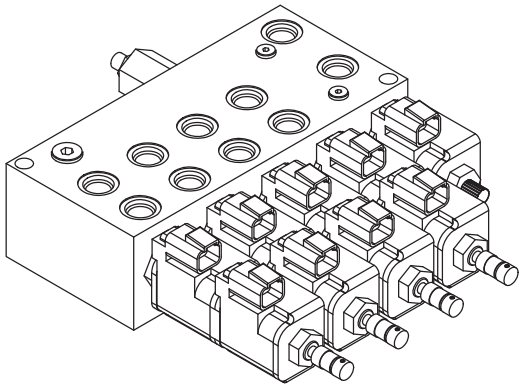
| ITEM | PART No. | DESCRIPTION | QTY |
|---|---|---|---|
| 25 | C5547 | FTG ADAPT 90 6-8 C5OLO-S | 2 |
| 24 | D0549 | FTG ADAPT 16-8 F5OG5-S | 2 |
| 23 | 17288 | HOSE PROTECTOR 1.00 AS-B-27 | 12" |
| 22 | C1175 | FTG ELL 8-V5OLO-S | 1 |
| 21 | C4929 | FTG ADAPT 6-4 F5OLO-S | 1 |
| 20 | D1430 | FTG ADAPT O'RING FMP 6-1/4 F5OG-S | 1 |
| 19 | 12172 | FTG SWIVEL 0.50 FS/FS PS81 JMJM-8-8 | 1 |
| 18 | 12171 | FTG SWIVEL 0.38 FS/FS PS81 JMJM-6-6 | 2 |
| 17 | 6397 | GAUGE OIL LF 2.5" 0-5000 CBM | 1 |
| 16 | C5908 | FTG 0.25 ML ELL | 1 |
| 15 | 0279 | FTG ADAPT 6 F5OLO-S | 12 |
| 14 | D1193 | FTG ADAPT 6-V5OLO-S | 1 |
| 13 | C4961 | PLUG STR HOLLOW HEX 0.38 6-HP5ON | 1 |
| 12 | D1302 | FTG ADAPT 90 6-10-C5OLO-S | 2 |
| 11 | 3861 | FTG 90 MSTR/FSTR 6 | 2 |
| 10 | 15111 | FTG ADAPT MSTH/FSTH 6-4-F5OG5 | 2 |
| 09 | 28485 | TRANSDUCER PRESSURE 5000 PSI | 2 |
| 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 | 28012 | HOSE-HYD .38 X 36 | 1ref |
| 04 | 13030 | HOSE-HYD .38 X 39 | 2ref |
| 03 | 13029 | HOSE-HYD .38 X 22.50 | 3ref |
| 02 | 13028 | HOSE-HYD .38 X 17 | 2ref |
| 01 | 52267 | HOSE KIT12621/12628 (incl:2-8) | 1 |

# Valve Bank - PN 52265

HYDRAULIC SCHEMATIC



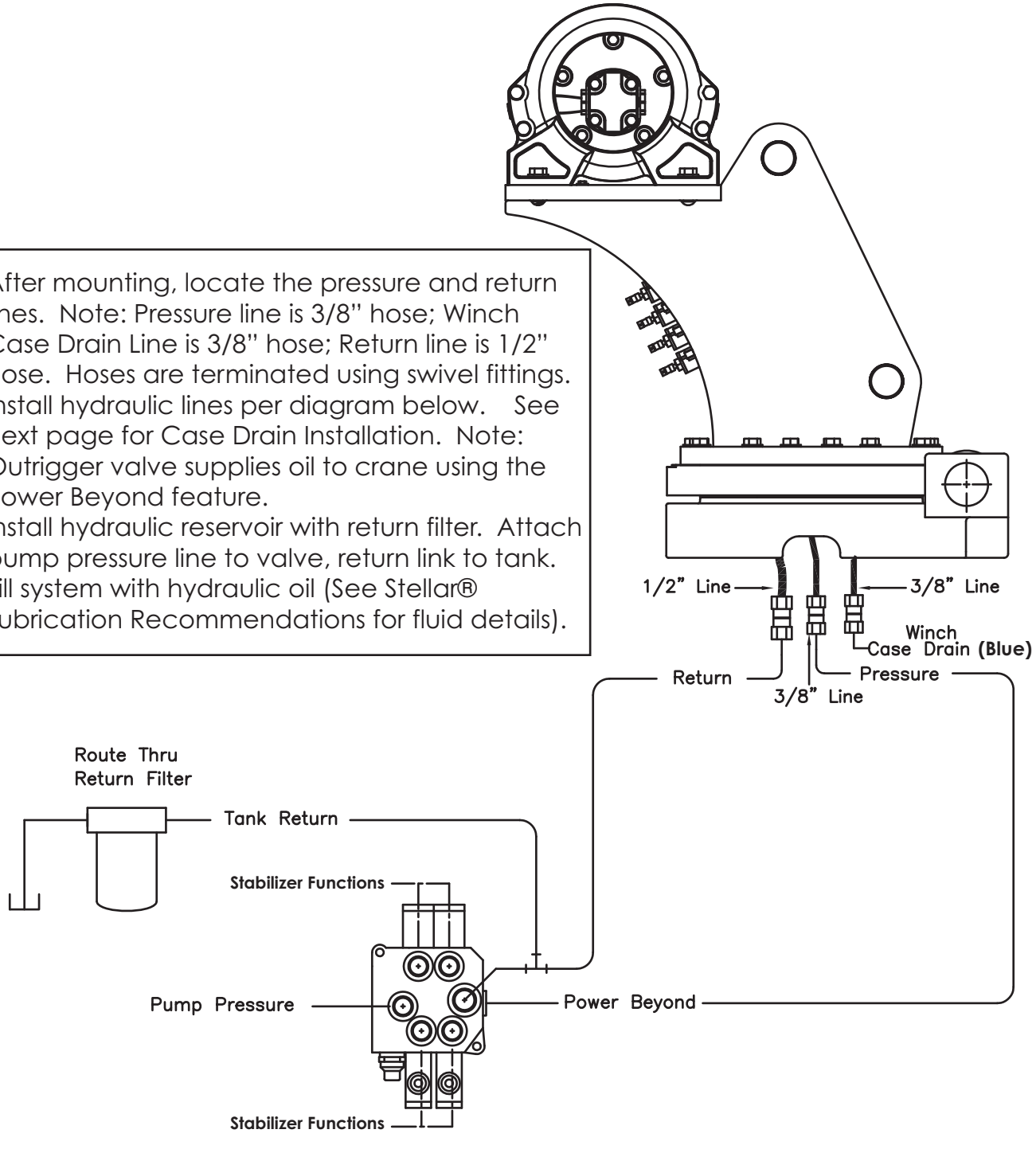



## PN 52265

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

# Hydraulic Installation

1. 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.
2. Install hydraulic lines per diagram below. See next page for Case Drain Installation. Note: Outrigger 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**

# Winch Case Drain Installation

## 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.

**Fig.1**

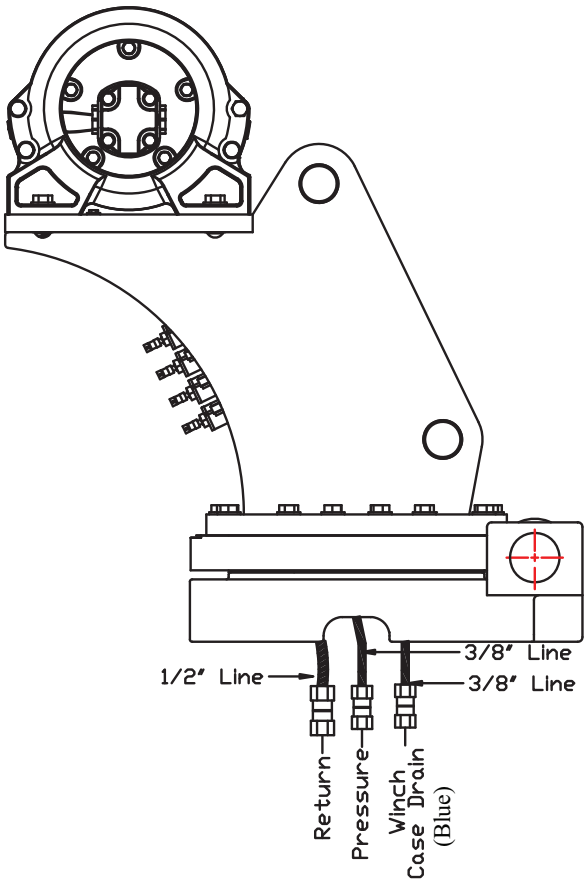
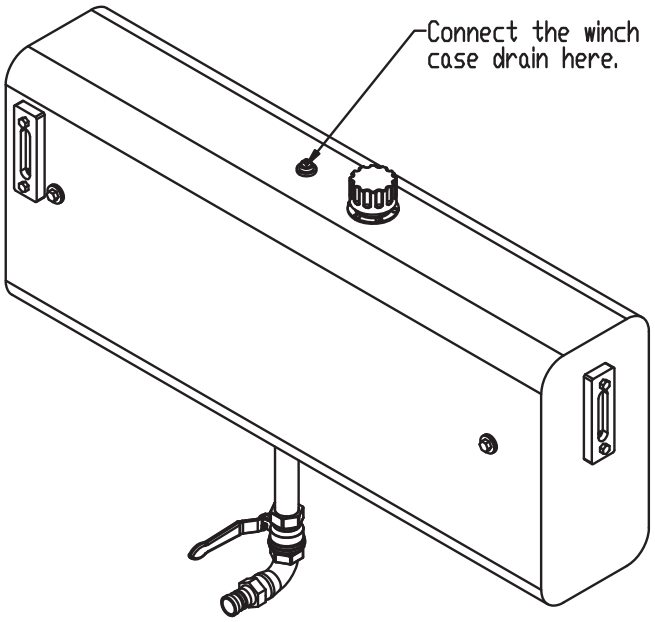
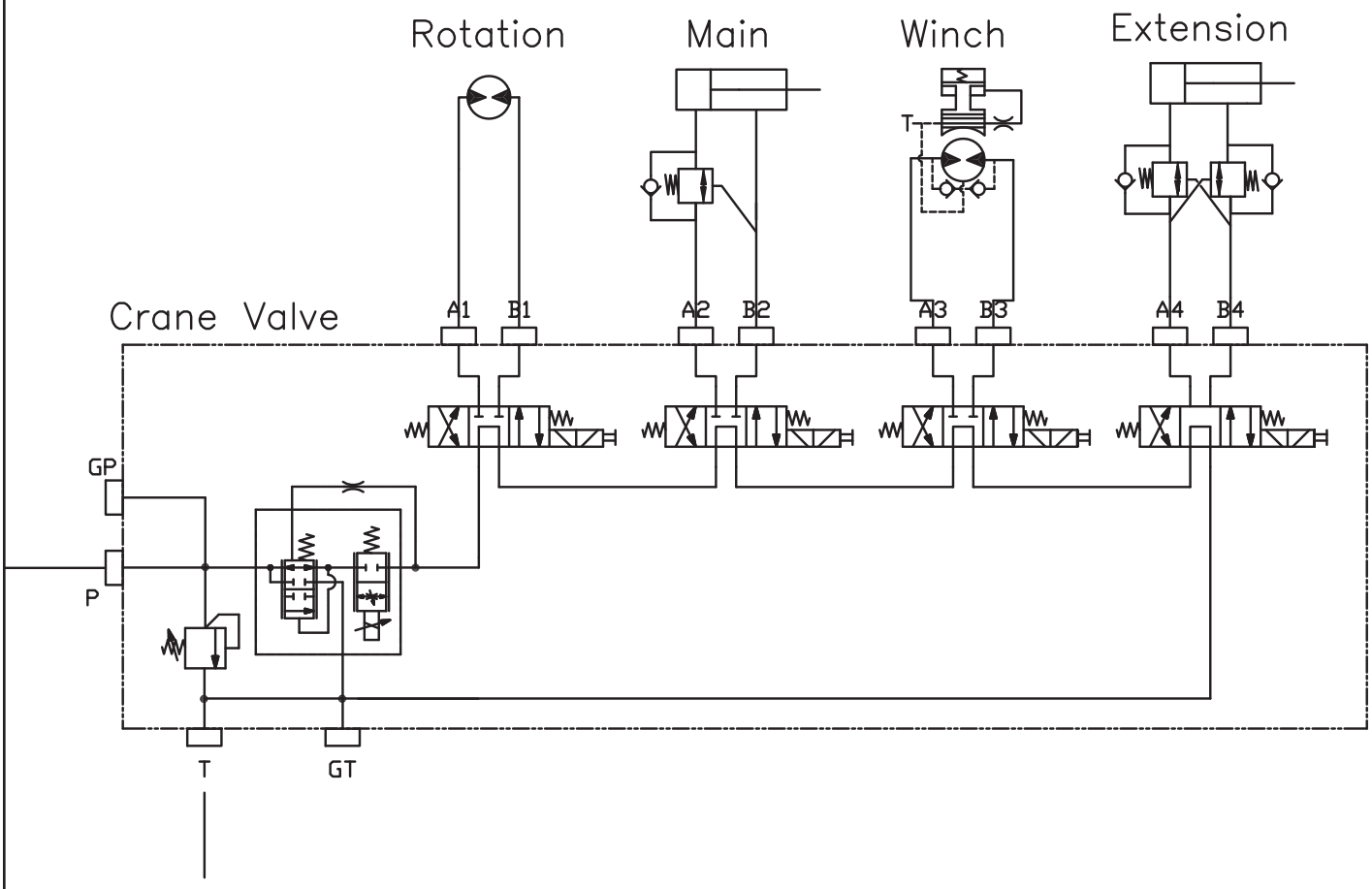



**Fig. 2**



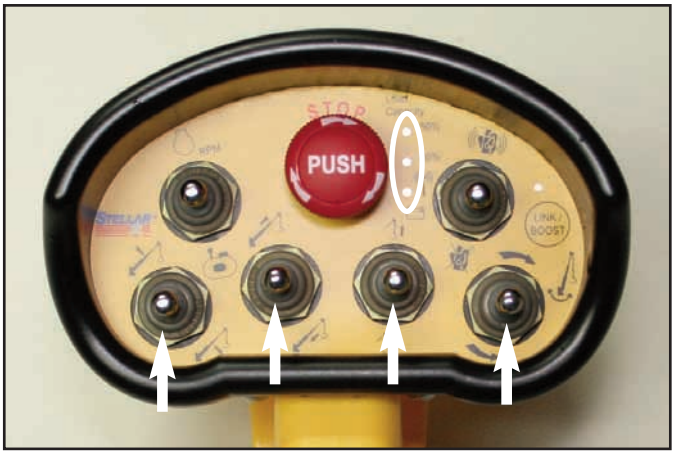
# Hydraulic System



# 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.

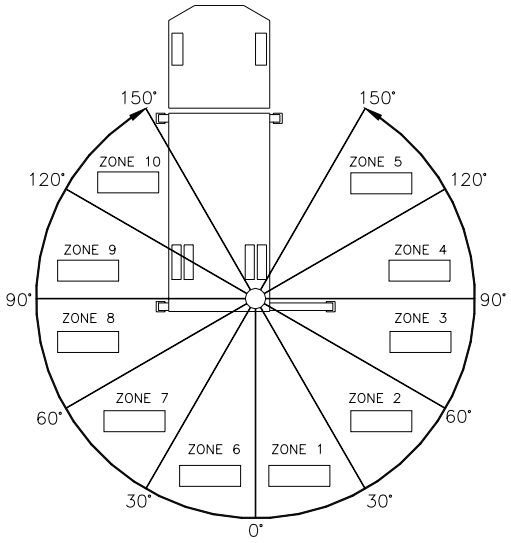
**Set Up:**
1. Locate the truck on a test course in position for loading and engage travel brakes.
2. Set stabilizers so that they make contact with firm, level footing.
3. Operate the crane under partial load to assure operator proficiency and proper machine function.
4. Put the radio into Stability 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.

**10628 Stability Data**
**Max Horizontal Reach:** 342" (From the center of rotation to boom tip)
**Boost Stability Test Weight:** 2945 lbs.
**Non-Boost Stability Test Weight:** 2495 lbs.

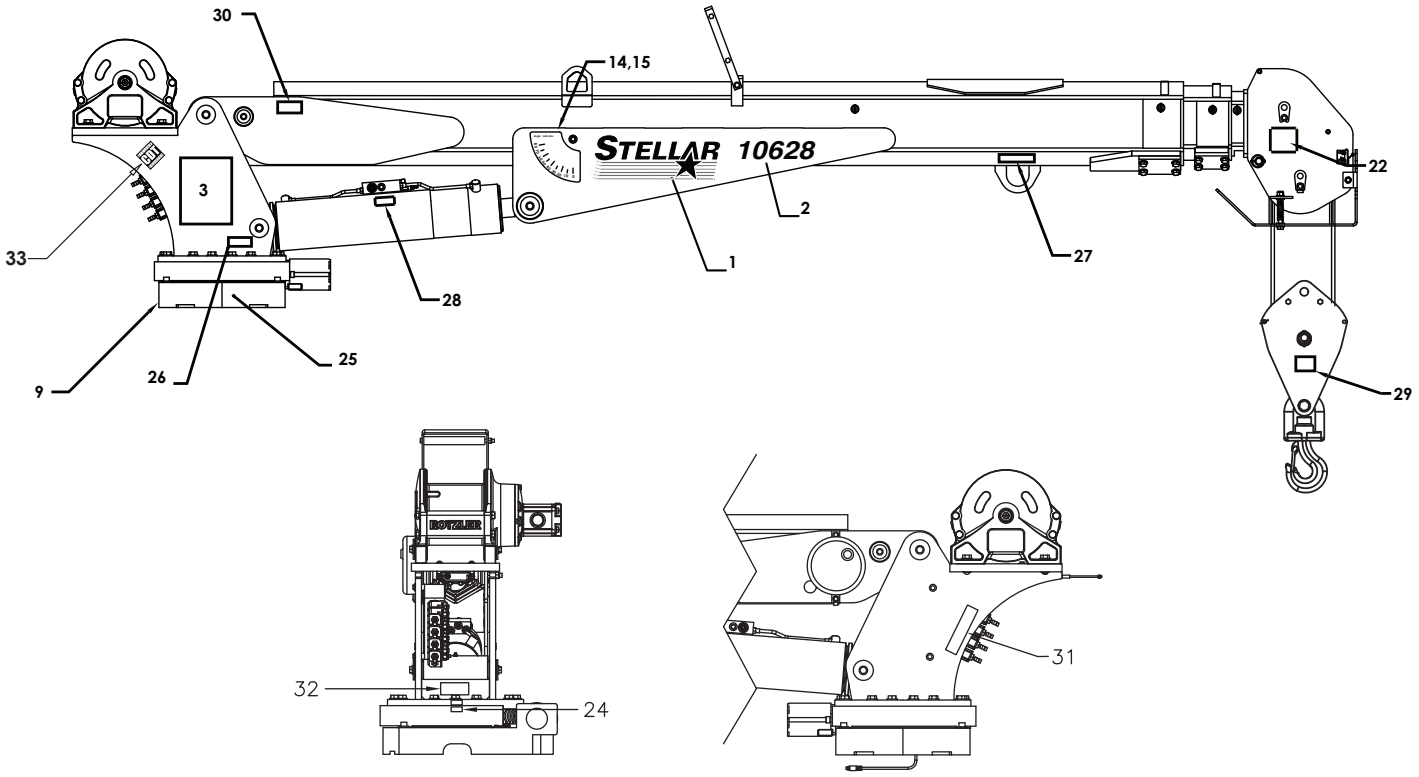



**Test Procedure**
1. Rotate the crane into Zone 1 position.
2. With the crane fully retracted and the boom horizontal, winch the test weight off the ground. Note: Keep weight within six inches of the ground at all times.
3. Extend the boom outward until full extension has been reached or until the truck 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.

# Decal Kit Placement - PN 54762



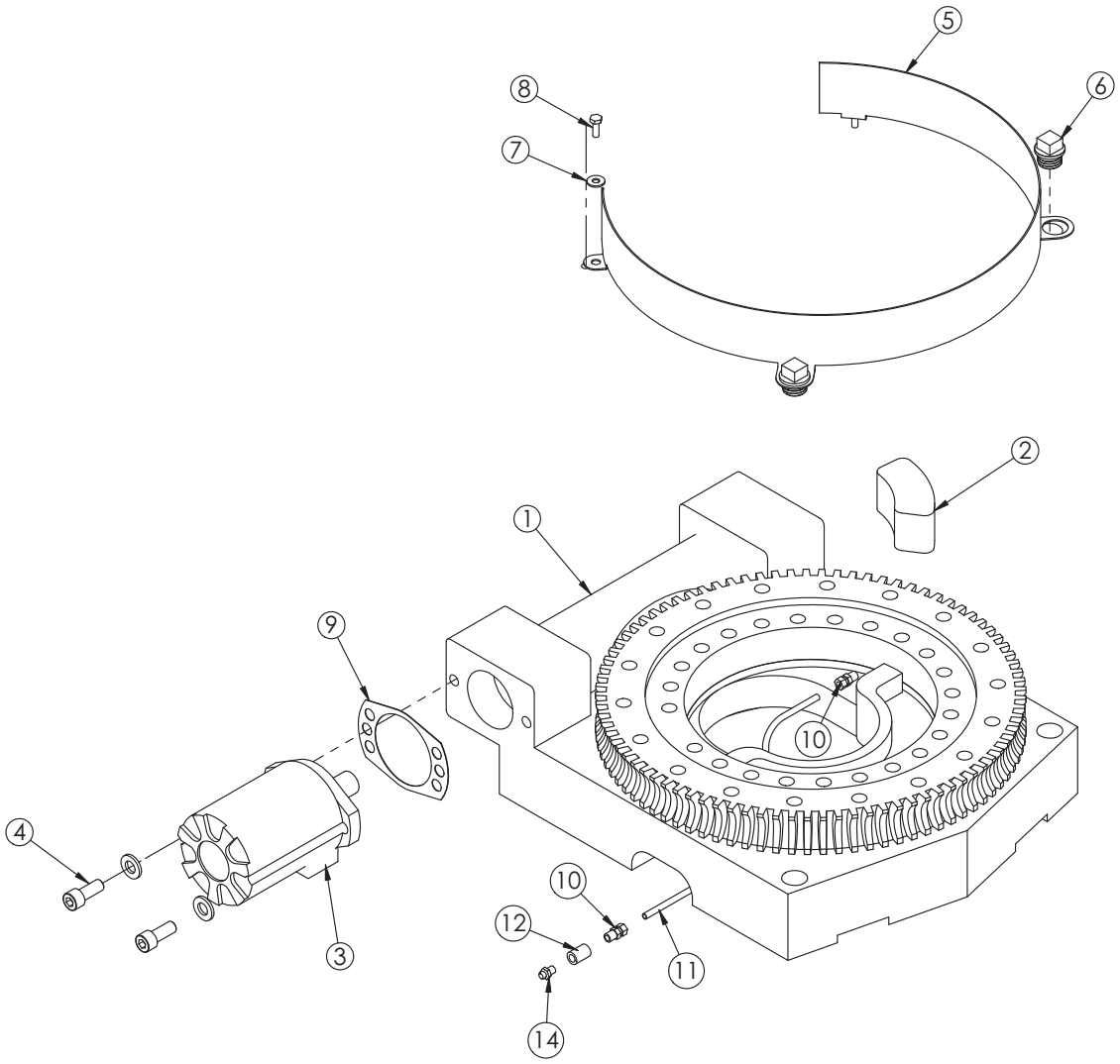

## PN 54762

**THESE DECALS NOT INCLUDED WITH THE DECAL KIT
*USE THESE DECALS WITH BODY PACKAGE

| ITEM | PART No. | DESCRIPTION | QTY | ITEM | PART No. | DESCRIPTION | QTY |
|---|---|---|---|---|---|---|---|
| | | | | 33 | 54588 | DECAL CDT 2.00X2.00 | 2 |
| *16 | 12451 | DECAL HOISTING PERSONNEL | 1 | 32 | 25159 | DECAL WARNING MANUAL OVERRIDES | 1 |
| 15 | D1197 | DECAL-ANGLE INDICATOR SS | 1 | 31 | 52270 | DECAL VB CONTROL MECH CRANE | 1 |
| 14 | D1196 | DECAL ANGLE INDICATOR CS | 1 | 30** | 35234 | DECAL STELLAR MADE IN THE USA | 1 |
| *13 | C1179 | DECAL-ELECTROCUTION 4.5x7.5 | 2 | 29 | 56405 | DECAL SNATCH BLOCK CAP 7 TON | 1 |
| *12 | C5918 | DECAL-DANGER MOVING O.R. | 2 | 28 | 28256 | DECAL WARNING OVERLOAD DEVICE | 1 |
| *11 | C4795 | DECAL-DANGER O.R. | 2 | 27 | 24712 | DECAL CAUTION STOW HOOK | 1 |
| *10 | 4190 | DECAL-DANGER | 1 | 26 | 15172 | DECAL ASME/ANSI B30.22/B30.5 | 1 |
| 09 | 9188 | DECAL-ROTATE/GREASE | 1 | 25 | 15171 | DECAL GREASE WORM DRIVE BEARINGS | 1 |
| *08 | 4189 | DECAL-DANGER | 1 | 24 | 4188 | DECAL-ROTATION ALIGNMENT | 1 |
| *07 | 4186 | DECAL-ELECTROCUTION 2x2.75 | 1 | *23 | C4541 | DECAL-CRANE STOWING | 1 |
| *06 | C4544 | DECAL-DANGER | 1 | 22 | 12300 | DECAL-TWO BLOCKING | 1 |
| *05 | C4540 | DECAL-DANGER | 1 | *21 | 4214 | DECAL-SERVICE | 1 |
| *04 | C4545 | DECAL-ELECTROCUTION 5x13 | 4 | *20 | C0568 | DECAL-DIESEL | 2 |
| *03 | 54496 | DECAL CAPACITY | 2 | *19 | 12452 | DECAL MANUAL EXT | 1 |
| 02 | 52687 | DECAL 10628 IDENTIFICATION | 2 | *18 | C5911 | DECAL-STELLAR 2x4.5 | 3 |
| 01 | 52681 | DECAL STELLAR LOGO 6.5 x 18 | 2 | *17 | C5910 | DECAL-STELLAR 4x9.5 | 1 |

# Chapter 3 - Assembly Drawings

## Base Assembly - PN 18027

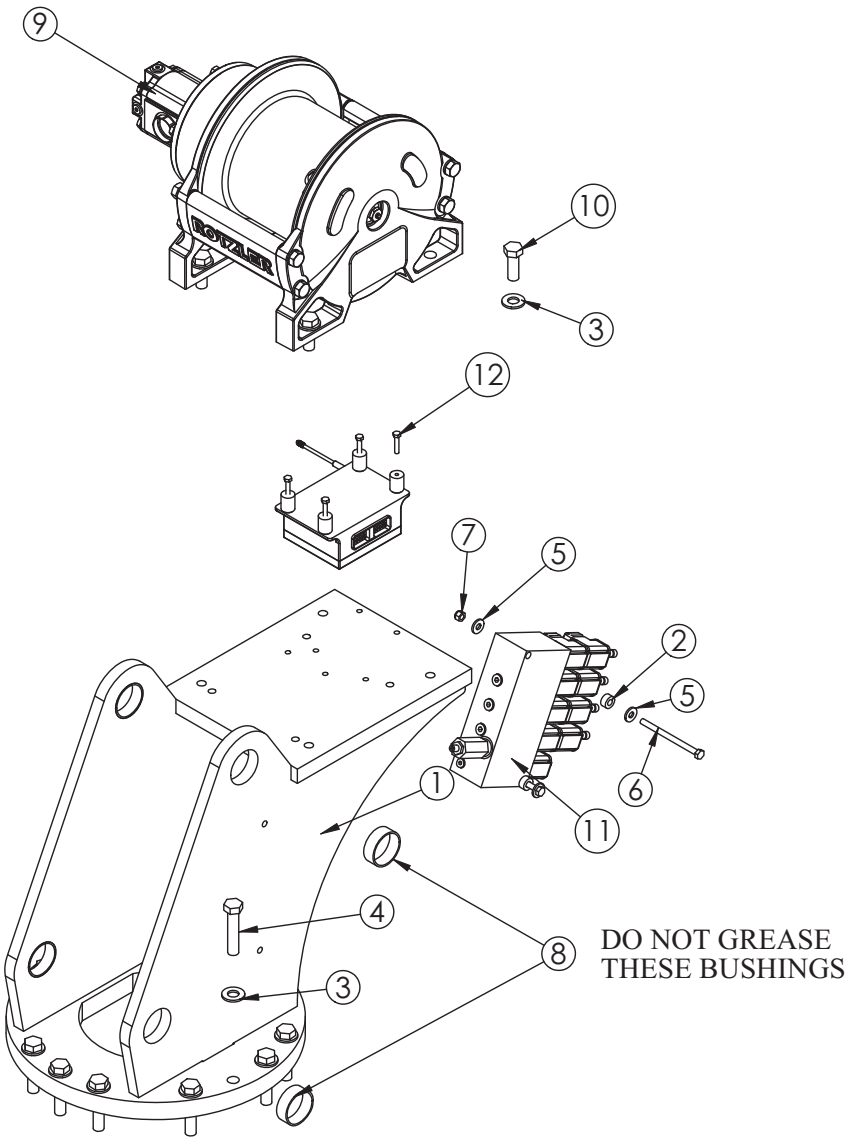



**PN 18027**

| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 11453 | BEARING SWING DRIVE CAST BASE 6620 | 1 |
| 2 | 11542 | STOP 3820 400 SLIDE | 1 |
| 3 | C6069 | MOTOR HYD ROSS MK080613AAAB | 1 |
| 4 | D1307 | CAP SCR 0.50-13X1.25 SH | 2 |
| 5 | 44551PC | GUARD TTB 6620 CRANE LZR | 1 |
| 6 | 13959 | CAP SCR 1.00-8 X .63 PLASTIC | 2 |
| 7 | 0340 | WASHER 0.25 FLAT | 2 |
| 8 | 0479 | CAP SCR 0.25-20X0.75 HHGR5 | 2 |
| 9 | 21151 | GASKET MOTOR 008-10056-1 | 1 |
| 10 | D1345 | FTG CPRSN 0.12NPT/0.25 TUBE | 2 |
| 11 | D1810 | TBE AIR SAEJ844 TYPE A .25 (RM) | 1 |
| 12 | C2256 | FTG COUPLER PIPE 0.13 | 1 |
| 13 | D0790 | WASHER 0.50 FLAT GR8 | 2 |
| 14 | 56589 | ZERK 1/8 NPT STRAIGHT LONG THREAD | 1 |

GASKET SHOWN AS REFERENCE

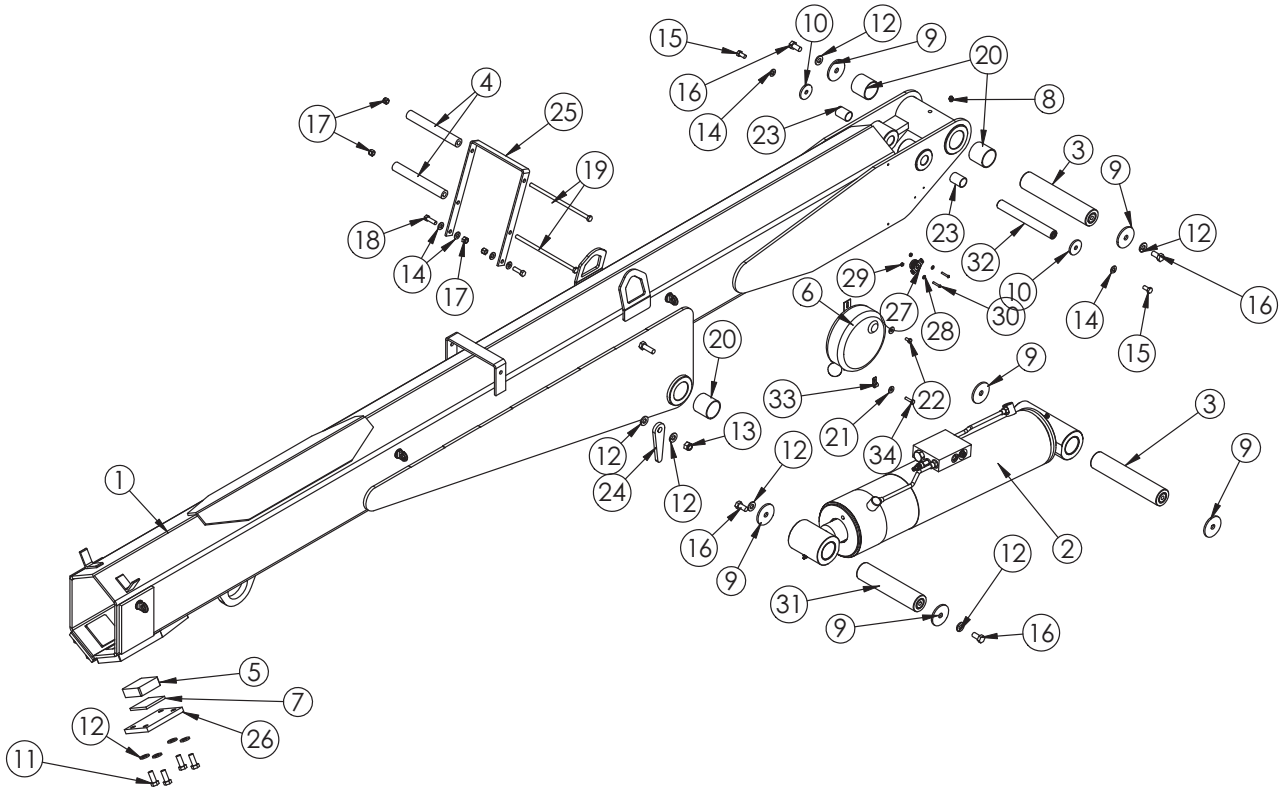
# Mast Assembly - PN 52488




## PN 52488

| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 43483 | MAST 10621/12621 | 1 |
| 2 | 27813 | COLLAR 0.38X0.75X0.38 UHMW | 2 |
| 3 | C5902 | WASHER 0.63 SAE FLAT YELLOW GR8 | 18 |
| 4 | D1034 | CAP SCR 0.63-11X3.00 HHGR8 | 14 |
| 5 | 0343 | WASHER 0.31 USS FLAT ZINC | 4 |
| 6 | C0933 | CAP SCR 0.31-18X4.50 HHGR5 | 2 |
| 7 | 0342 | NUT 0.31-18 HHGR5 NYLOC | 2 |
| 8 | 44533 | BUSHING HSG32350125 2.00X0.75 | 4 |
| 9 | 41547 | WINCH 5000 TH2CC00243 | 1 |
| 10 | 11693 | CAP SCR 0.63-11X1.75 HHGR8 | 4 |
| 11 | 52265 | VB 4 SECT W/PROP STER8GPM DEUTSCH | 1 |
| 12 | 52490 | CAP SCR 6MMX30MM HH CLASS 8.8 | 4 |

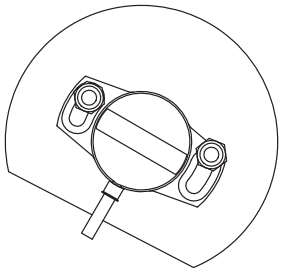
# Main Boom - PN 52869




## PN 52869

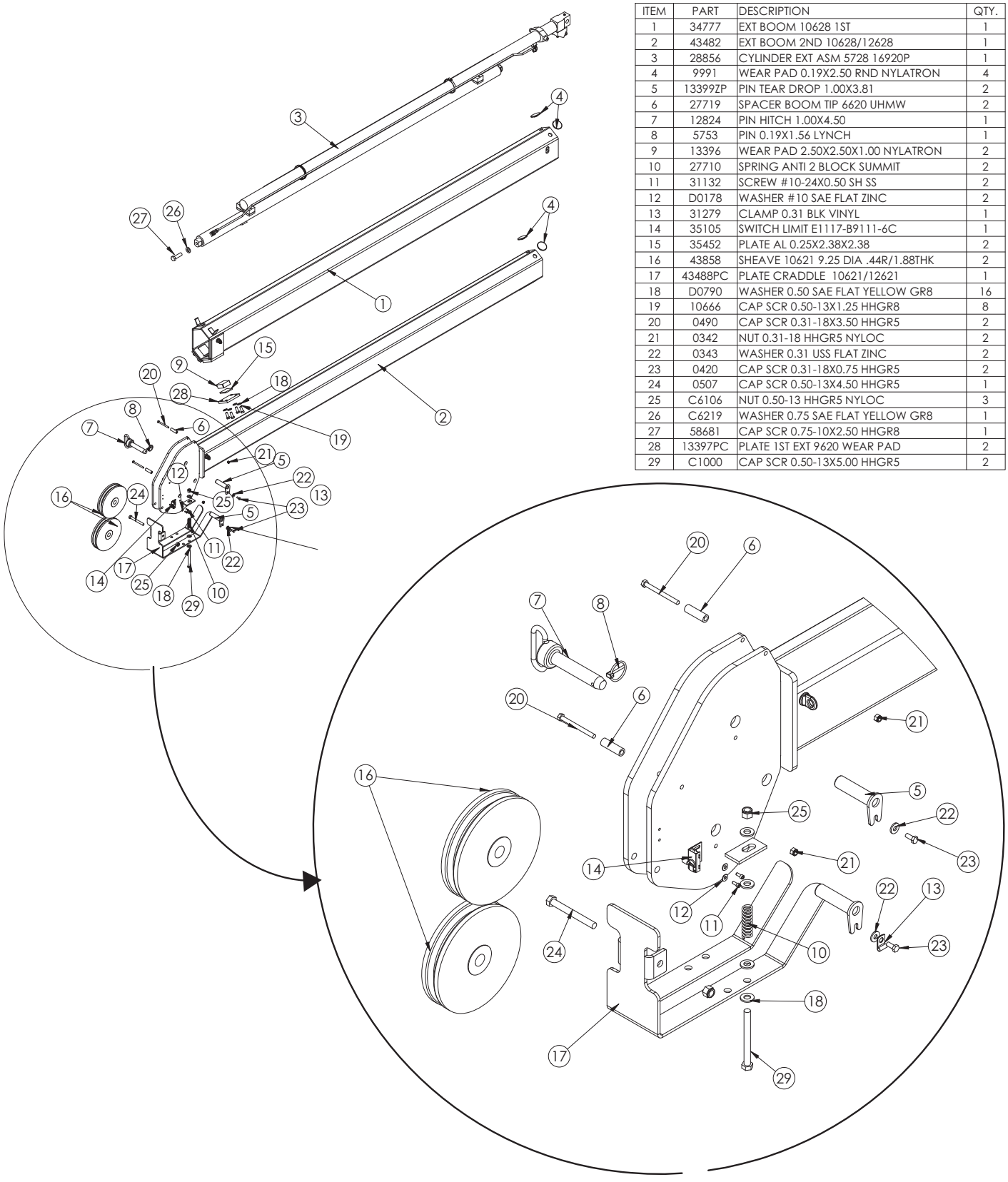
| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 43481 | INNER BOOM 10628/12628 | 1 |
| 2 | 43839 | CYLINDER ASM 5.50X21.38 | 1 |
| 3 | 9709ZP | PIN 2.00X10.19 D&T | 2 |
| 4 | 27720 | SPACER ROPE GUIDE 6620 UHMW | 2 |
| 5 | 13395 | WEAR PAD 3.00X3.00X1.00 NYLATRON | 2 |
| 6 | 19166 | CORD REEL 5728 | 1 |
| 7 | 35451 | PLATE AL 0.25X2.88X2.88 | 2 |
| 8 | c1592 | ZERK 1/8 NPT STRAIGHT | 1 |
| 9 | 9142 | PIN CAP 0.56X2.50X0.19 | 6 |
| 10 | 9320 | PIN CAP 0.44X1.75X0.19 SS | 2 |
| 11 | 10666 | CAP SCR 0.50-13X1.25 HHGR8 | 8 |
| 12 | D0790 | WASHER 0.50 SAE FLAT YELLOW GR8 | 16 |
| 13 | C6106 | NUT 0.50-13 HHGR5 NYLOC | 2 |
| 14 | C6353 | WASHER 0.38 SAE FLAT YELLOW GR8 | 6 |

| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 15 | 9843 | CAP SCR 0.38-16X0.75 HHGR8 | 2 |
| 16 | 10172 | CAP SCR 0.50-13X1.00 HHGR8 | 4 |
| 17 | 0347 | NUT 0.38-16 HHGR5 NYLOC | 4 |
| 18 | 0335 | CAP SCR 0.38-16X1.25 HHGR5 | 2 |
| 19 | 12168 | CAP SCR 0.38-16X9.00 HHGR5 | 2 |
| 20 | 4381 | BUSHING BPC32DXR32 2.00X2.00 | 4 |
| 21 | 0340 | WASHER 0.25 USS FLAT ZINC | 2 |
| 22 | 0478 | CAP SCR 0.25-20X0.50 HHGR5 | 1 |
| 23 | 0068 | BUSHING BPC16DXR24 1.00X1.50 | 2 |
| 24 | D1194PC | PLATE ANGLE INDICATOR | 2 |
| 25 | 13435PC | BRKT ROPE GUIDE 9620 | 1 |
| 26 | 13398PC | PLATE WEAR PAD SUPPORT 9620 | 2 |
| 27 | 53493 | INCLINOMETER 60 DEG | 1 |
| 28 | 18765 | WASHER #6 SAE FLAT ZINC | 2 |
| 29 | D0076 | NUT #6-32 HH NYLOC SS | 2 |
| 30 | 18618 | SCREW #6-32X1.00 PHMS PH | 2 |
| 31 | 9711ZP | PIN 2.00X8.88 D&T | 1 |
| 32 | 9712ZP | PIN 1.00X8.38 D&T | 1 |
| 33 | C5606 | CLAMP 0.25 BLK VINYL | 1 |
| 34 | 0480 | CAP SCR 0.25-20X1.00 HHGR5 | 1 |



NOTE: INCLINOMETER MOUNTS INSIDE THE BOOM. VIEW SHOWS POSITION OF INCLINOMETER

# Extension Boom Assembly - PN 43853

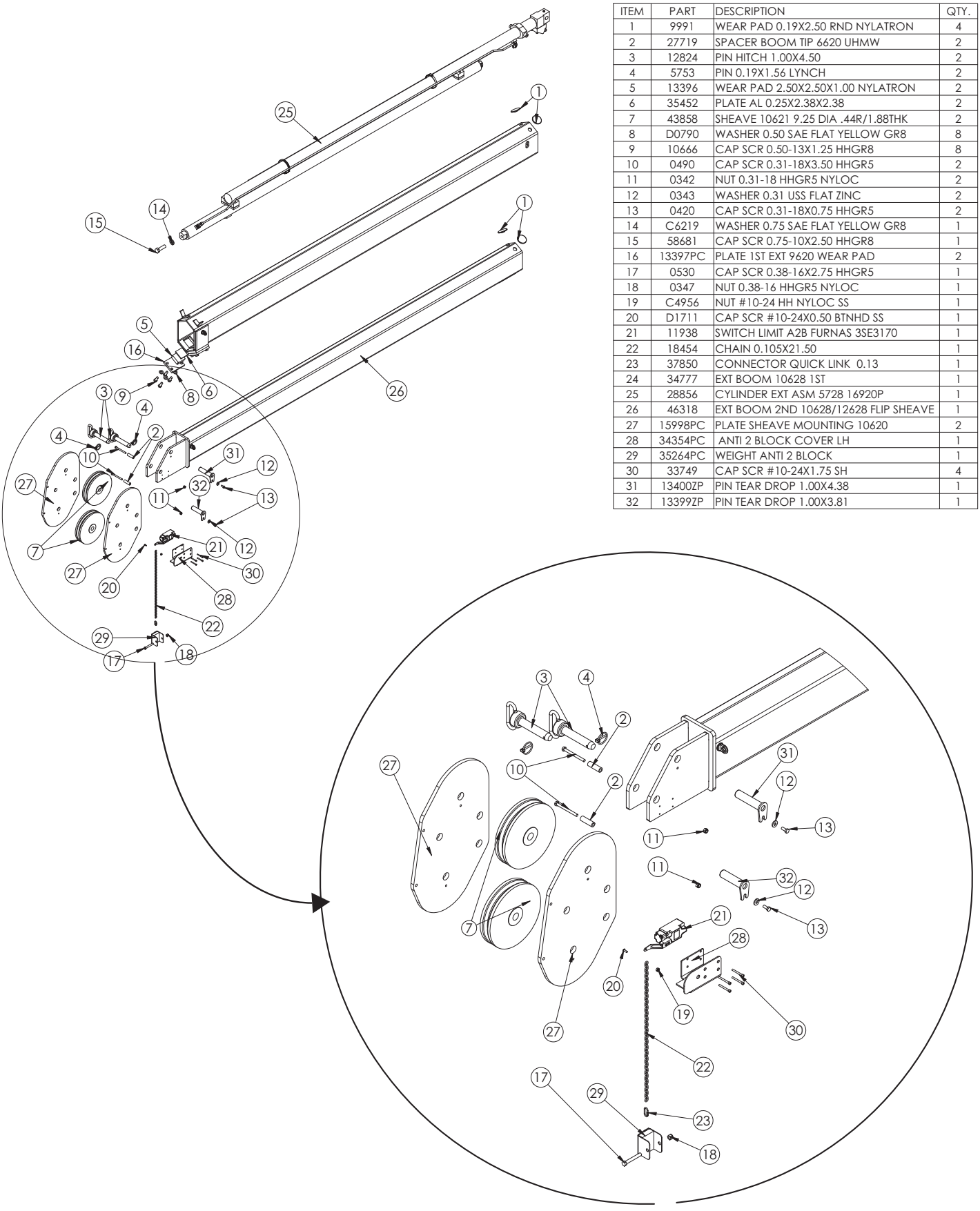


## PN 43853

| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 34777 | EXT BOOM 10628 1ST | 1 |
| 2 | 43482 | EXT BOOM 2ND 10628/12628 | 1 |
| 3 | 28856 | CYLINDER EXT ASM 5728 16920P | 1 |
| 4 | 9991 | WEAR PAD 0.19X2.50 RND NYLATRON | 4 |
| 5 | 13399ZP | PIN TEAR DROP 1.00X3.81 | 2 |
| 6 | 27719 | SPACER BOOM TIP 6620 UHMW | 2 |
| 7 | 12824 | PIN HITCH 1.00X4.50 | 1 |
| 8 | 5753 | PIN 0.19X1.56 LYNCH | 1 |
| 9 | 13396 | WEAR PAD 2.50X2.50X1.00 NYLATRON | 2 |
| 10 | 27710 | SPRING ANTI 2 BLOCK SUMMIT | 2 |
| 11 | 31132 | SCREW #10-24X0.50 SH SS | 2 |
| 12 | D0178 | WASHER #10 SAE FLAT ZINC | 2 |
| 13 | 31279 | CLAMP 0.31 BLK VINYL | 1 |
| 14 | 35105 | SWITCH LIMIT E1117-B9111-6C | 1 |
| 15 | 35452 | PLATE AL 0.25X2.38X2.38 | 2 |
| 16 | 43858 | SHEAVE 10621 9.25 DIA .44R/1.88THK | 2 |
| 17 | 43488PC | PLATE CRADDLE 10621/12621 | 1 |
| 18 | D0790 | WASHER 0.50 SAE FLAT YELLOW GR8 | 16 |
| 19 | 10666 | CAP SCR 0.50-13X1.25 HHGR8 | 8 |
| 20 | 0490 | CAP SCR 0.31-18X3.50 HHGR5 | 2 |
| 21 | 0342 | NUT 0.31-18 HHGR5 NYLOC | 2 |
| 22 | 0343 | WASHER 0.31 USS FLAT ZINC | 2 |
| 23 | 0420 | CAP SCR 0.31-18X0.75 HHGR5 | 2 |
| 24 | 0507 | CAP SCR 0.50-13X4.50 HHGR5 | 1 |
| 25 | C6106 | NUT 0.50-13 HHGR5 NYLOC | 3 |
| 26 | C6219 | WASHER 0.75 SAE FLAT YELLOW GR8 | 1 |
| 27 | 58681 | CAP SCR 0.75-10X2.50 HHGR8 | 1 |
| 28 | 13397PC | PLATE 1ST EXT 9620 WEAR PAD | 2 |
| 29 | C1000 | CAP SCR 0.50-13X5.00 HHGR5 | 2 |

# Extension Boom Flip Sheave Assembly - PN 46317

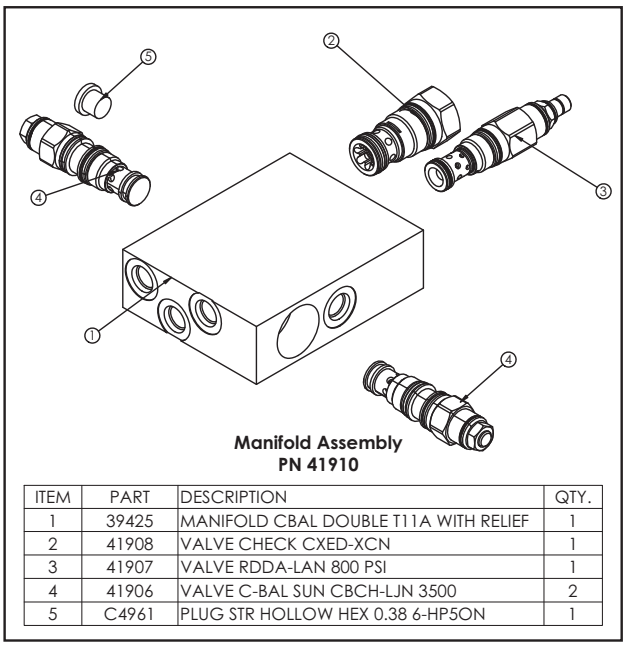
**OPTIONAL**



**PN 46317**

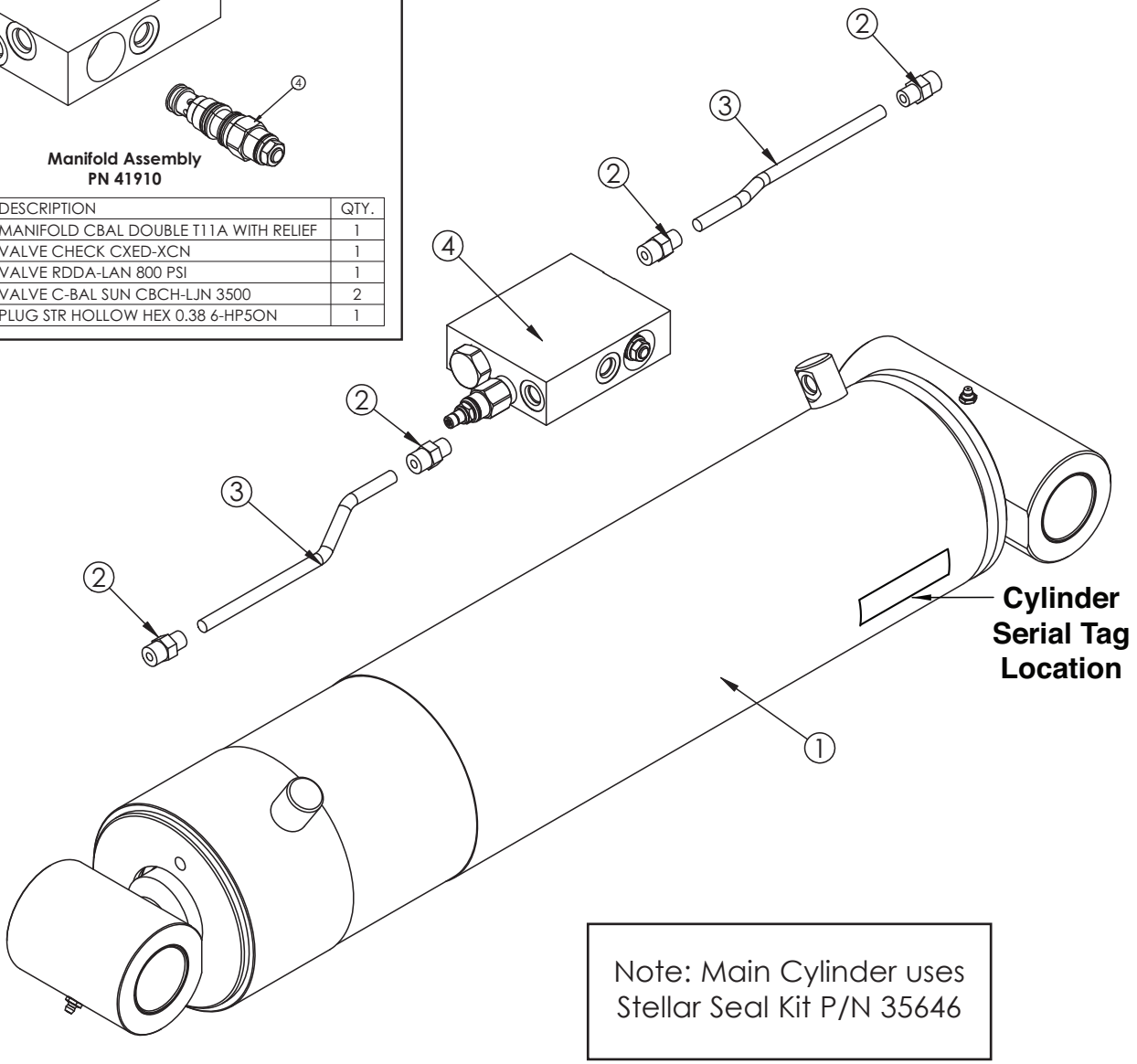
| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 9991 | WEAR PAD 0.19X2.50 RND NYLATRON | 4 |
| 2 | 27719 | SPACER BOOM TIP 6620 UHMW | 2 |
| 3 | 12824 | PIN HITCH 1.00X4.50 | 2 |
| 4 | 5753 | PIN 0.19X1.56 LYNCH | 2 |
| 5 | 13396 | WEAR PAD 2.50X2.50X1.00 NYLATRON | 2 |
| 6 | 35452 | PLATE AL 0.25X2.38X2.38 | 2 |
| 7 | 43858 | SHEAVE 10621 9.25 DIA .44R/1.88THK | 2 |
| 8 | D0790 | WASHER 0.50 SAE FLAT YELLOW GR8 | 8 |
| 9 | 10666 | CAP SCR 0.50-13X1.25 HHGR8 | 8 |
| 10 | 0490 | CAP SCR 0.31-18X3.50 HHGR5 | 2 |
| 11 | 0342 | NUT 0.31-18 HHGR5 NYLOC | 2 |
| 12 | 0343 | WASHER 0.31 USS FLAT ZINC | 2 |
| 13 | 0420 | CAP SCR 0.31-18X0.75 HHGR5 | 2 |
| 14 | C6219 | WASHER 0.75 SAE FLAT YELLOW GR8 | 1 |
| 15 | 58681 | CAP SCR 0.75-10X2.50 HHGR8 | 1 |
| 16 | 13397PC | PLATE 1ST EXT 9620 WEAR PAD | 2 |
| 17 | 0530 | CAP SCR 0.38-16X2.75 HHGR5 | 1 |
| 18 | 0347 | NUT 0.38-16 HHGR5 NYLOC | 1 |
| 19 | C4956 | NUT #10-24 HH NYLOC SS | 1 |
| 20 | D1711 | CAP SCR #10-24X0.50 BTNHD SS | 1 |
| 21 | 11938 | SWITCH LIMIT A2B FURNAS 3SE3170 | 1 |
| 22 | 18454 | CHAIN 0.105X21.50 | 1 |
| 23 | 37850 | CONNECTOR QUICK LINK 0.13 | 1 |
| 24 | 34777 | EXT BOOM 10628 1ST | 1 |
| 25 | 28856 | CYLINDER EXT ASM 5728 16920P | 1 |
| 26 | 46318 | EXT BOOM 2ND 10628/12628 FLIP SHEAVE | 1 |
| 27 | 15998PC | PLATE SHEAVE MOUNTING 10620 | 2 |
| 28 | 34354PC | ANTI 2 BLOCK COVER LH | 1 |
| 29 | 35264PC | WEIGHT ANTI 2 BLOCK | 1 |
| 30 | 33749 | CAP SCR #10-24X1.75 SH | 4 |
| 31 | 13400ZP | PIN TEAR DROP 1.00X4.38 | 1 |
| 32 | 13399ZP | PIN TEAR DROP 1.00X3.81 | 1 |

# Main Cylinder Assembly - PN 43839



**Manifold Assembly**
**PN 41910**

| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 39425 | MANIFOLD CBAL DOUBLE T11A WITH RELIEF | 1 |
| 2 | 41908 | VALVE CHECK CXED-XCN | 1 |
| 3 | 41907 | VALVE RDDA-LAN 800 PSI | 1 |
| 4 | 41906 | VALVE C-BAL SUN CBCH-LJN 3500 | 2 |
| 5 | C4961 | PLUG STR HOLLOW HEX 0.38 6-HP5ON | 1 |

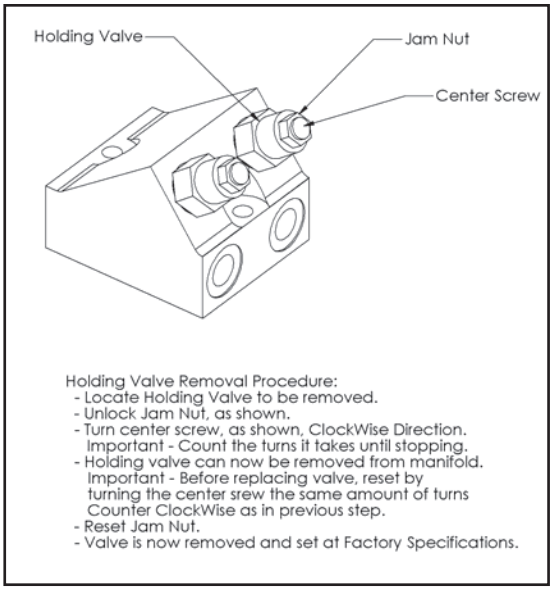


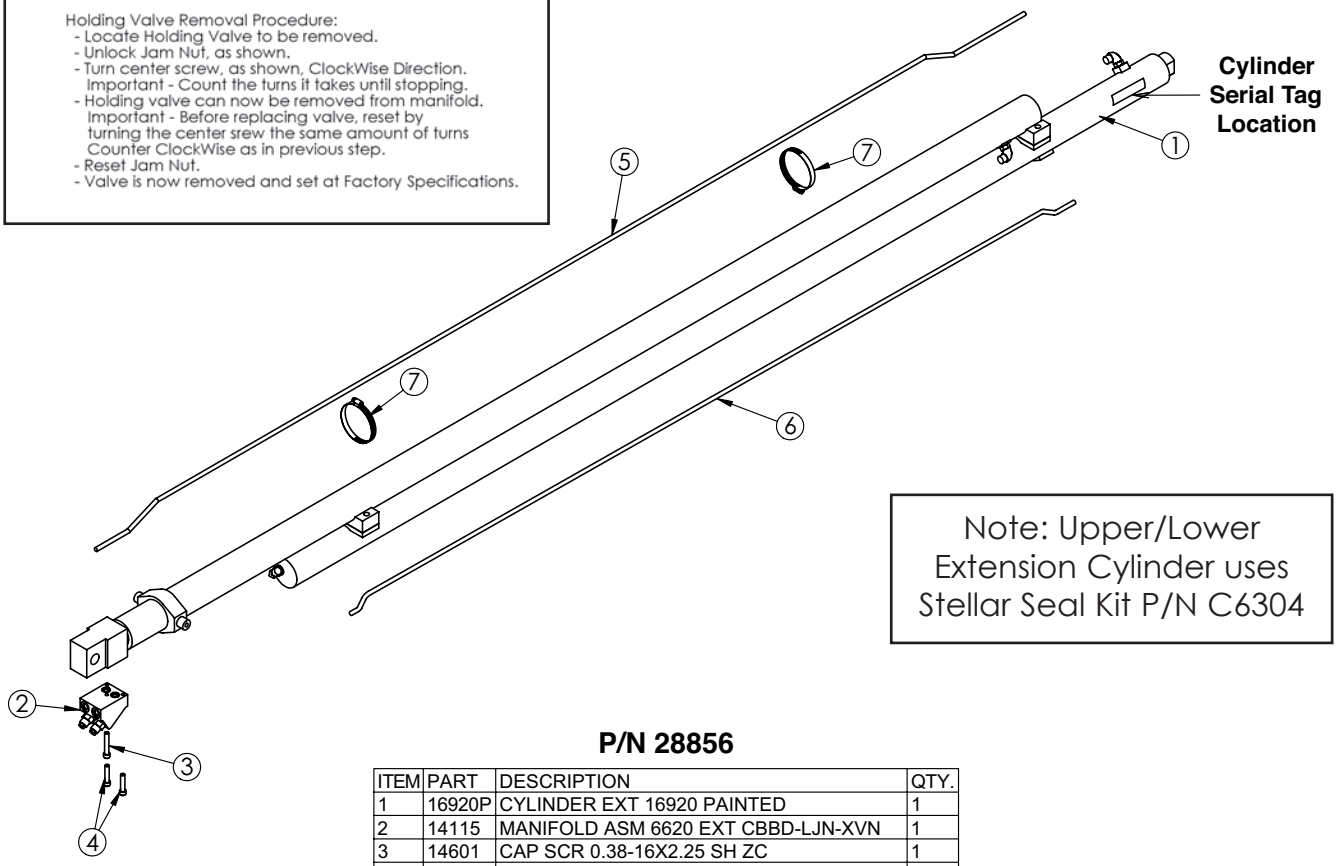

Note: Main Cylinder uses
Stellar Seal Kit P/N 35646

## PN 43839

| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 43838 | CYLINDER 5.50X21.38 | 1 |
| 2 | 0279 | FTG ADAPT 6-F5OLO-S | 4 |
| 3 | 44066 | TUBE ASM 0.38X8.25 MAIN 10628/12628 | 2 |
| 4 | 41910 | MANIFOLD ASM DUAL 10-1CBAL-RLF-CHK | 1 |

# Extension Cylinder Assembly - PN 28856



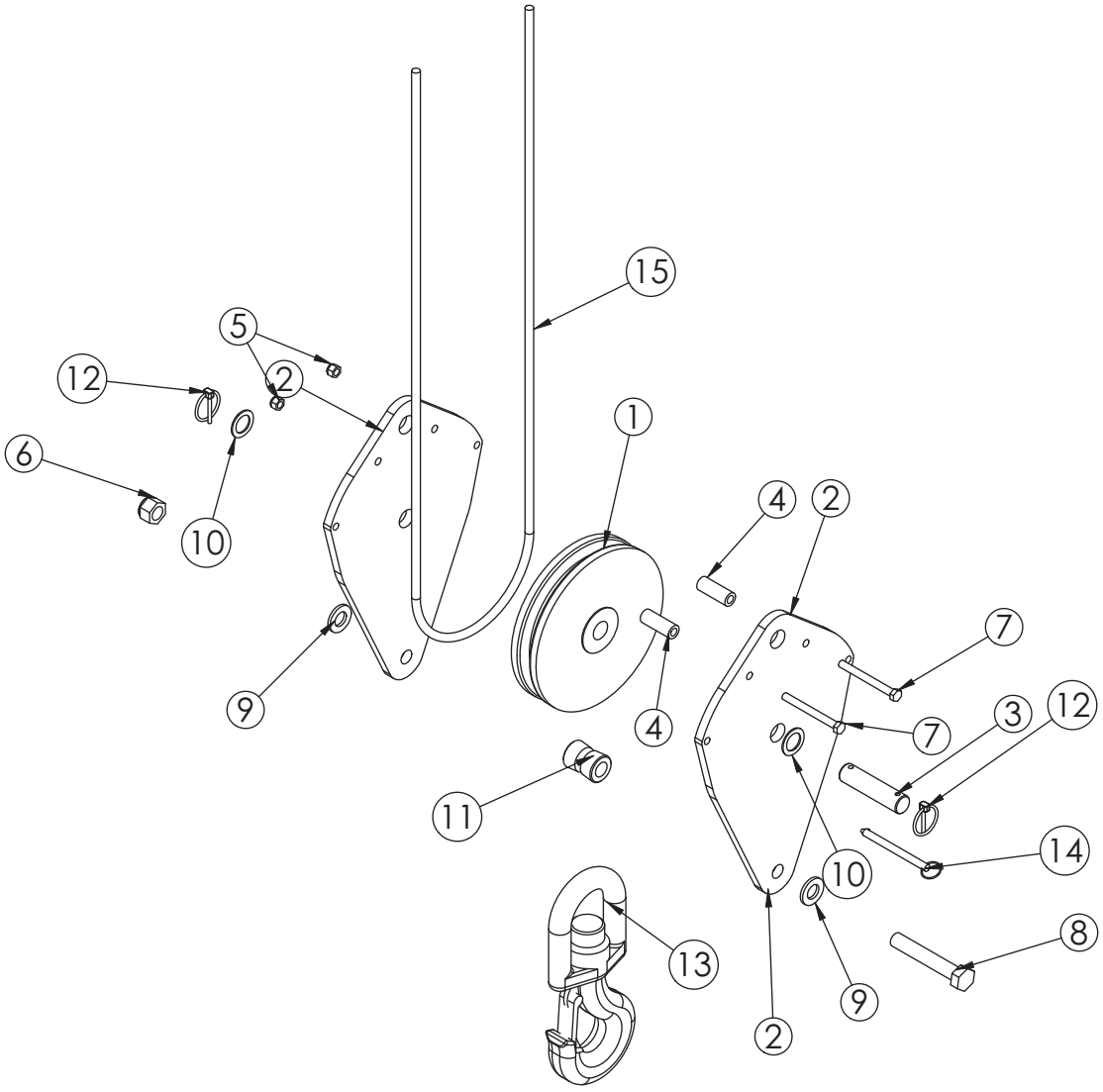




Note: Upper/Lower Extension Cylinder uses Stellar Seal Kit P/N C6304

**P/N 28856**

| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 16920P | CYLINDER EXT 16920 PAINTED | 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 | 17286 | TUBE ASM 0.38 X LONG EXT CYL 3628 | 1 |
| 6 | 17285 | TUBE ASM 0.38 X SHORT EXT CYL 5728 | 1 |
| 7 | 24729 | HOSE CLAMP #52 3.00 - 3.75 | 2 |

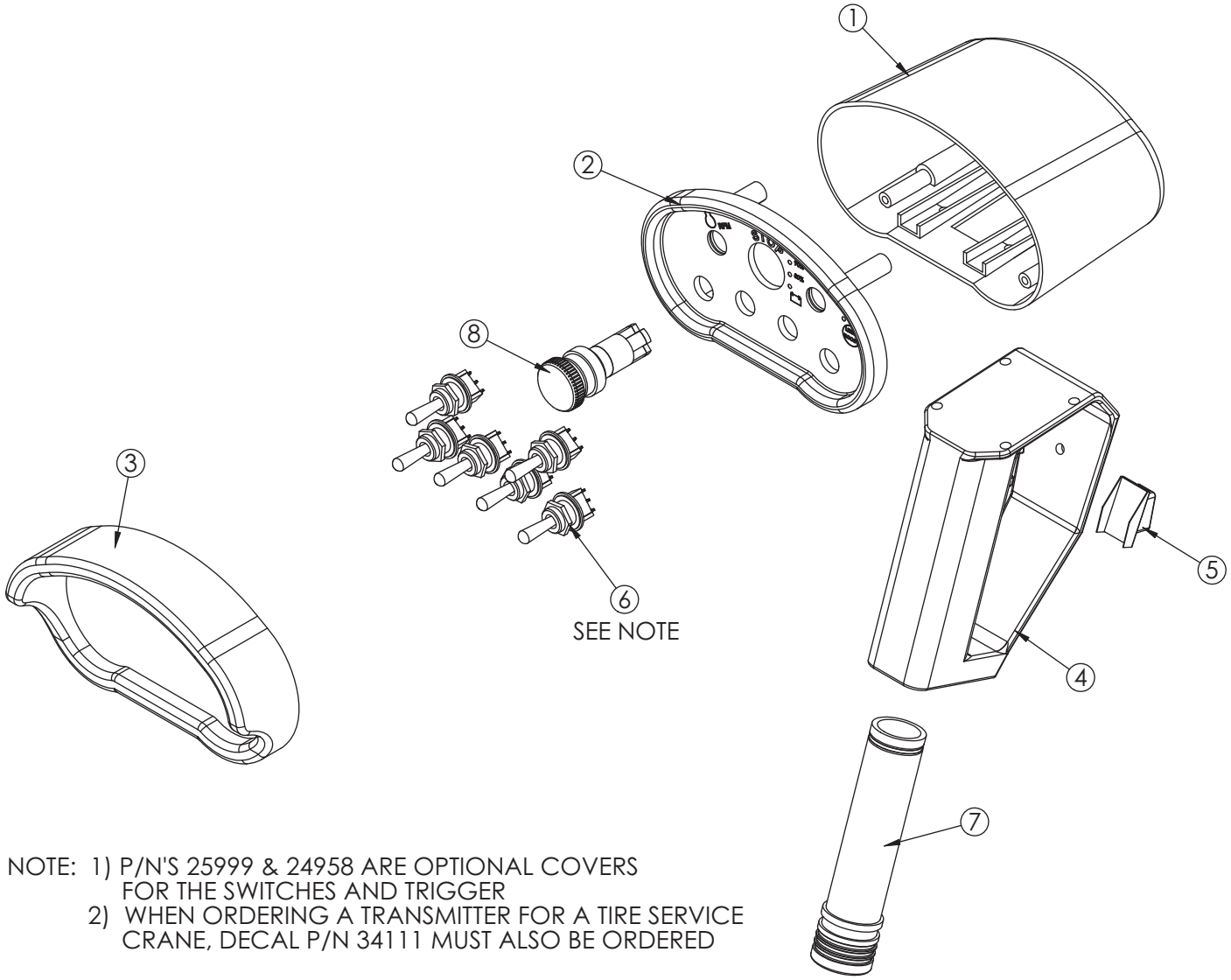
# Cable & Hook Assembly - PN 56271




## PN 56271

| ITEM | PART | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 43858 | SHEAVE 10621 9.25 DIA .44R/1.88THK | 1 |
| 2 | 53263PC | PLATE SNATCH BLOCK 76/96/106/126 | 2 |
| 3 | 39874ZP | PIN 1.00X4.06 COTTER | 1 |
| 4 | 44643PC | COLLAR 0.44X0.75X2.00 | 2 |
| 5 | 0347 | NUT 0.38-16 HHGR5 NYLOC | 2 |
| 6 | C0538 | NUT 0.75-10 HHGR8 NYLOC | 1 |
| 7 | 0532 | CAP SCR 0.38-16X3.75 HHGR5 | 2 |
| 8 | 5841 | CAP SCR 0.75-10X4.50 HHGR8 | 1 |
| 9 | C6219 | WASHER 0.75 SAE FLAT YELLOW GR8 | 2 |
| 10 | 0867 | MACHY WASHER 1.00ID 14GA | 2 |
| 11 | 39844 | BUSHING V HOOK | 1 |
| 12 | 5753 | PIN 0.19X1.56 LYNCH | 2 |
| 13 | 26762 | HOOK 7 TON SWIVEL CROSBY 1028632 | 1 |
| 14 | 13436 | PIN .38X4.00 QUICK RELEASE | 1 |
| 15 | 43857 | WIRE ROPE 7/16 6X19 IWRC-DGXXIP120 | 1 |

# CDT™ Radio Transmitter Assembly - PN 56647




NOTE: 1) P/N'S 25999 & 24958 ARE OPTIONAL COVERS FOR THE SWITCHES AND TRIGGER
2) WHEN ORDERING A TRANSMITTER FOR A TIRE SERVICE CRANE, DECAL P/N 34111 MUST ALSO BE ORDERED

## PN 56647

| 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 |

# Chapter 4 - Replacement Parts

| PART# | DESCRIPTION |
|---|---|
| C6069 | HYDRAULIC SWING MOTOR |
| 25367 | RELIEF VALVE |
| 25368 | SEAL KIT - RELIEF VALVE |
| 24960 | FLOW CONTROL VALVE |
| 25369 | SEAL KIT - FLOW CONTROL VALVE |
| 25371 | SOLENOID VALVE TAND G04571 |
| 25373 | SEAL KIT - SOLENOID VALVE |
| 44532 | COIL - 12VDC |
| 41910 | MANIFOLD ASM - MAIN CYLINDER |
| 41906 | C-BALANCE VALVE |
| 41907 | RELIEF VALVE - CYLINDER MANIFOLD |
| 41908 | CHECK VALVE |
| 14115 | MANIFOLD ASM - EXTENSION CYLINDER |
| 14390 | O'RING - MANIFOLD ASM EXT. CYLINDER |
| 28485 | PRESSURE TRANSDUCER |
| 6397 | HYD PRESSURE GUAGE |
| C2027 | O'RING - # 4 FACE SEAL |
| C2028 | O'RING - # 6 FACE SEAL |
| C2029 | O'RING - # 8 FACE SEAL |
| D1245 | O'RING - # 4 SAE |
| D1246 | O'RING - # 6 SAE |
| D1247 | O'RING - # 8 SAE |
| 25895 | WORM GEAR - BEARING SWING DRIVE |
| 25896 | BEARING & SEAL KIT - BEARING SWING DRIVE |
| 35646 | SEAL KIT (MAIN LIFT CYLINDER) |
| C6304 | SEAL KIT (EXTENSION CYLINDER) |
| 44066 | TUBE ASM - MAIN CYLINDER |
| 14442 | TUBE ASM - EXTENSION CYLINDER |
| 14443 | TUBE ASM - EXTENSION CYLINDER |
| 4380 | BUSHING 2.00"x 1.50" |
| 4381 | BUSHING 2.00"x 2.00" |
| #0068 | BUSHING |
| 44533 | BUSHING 2.00" x 0.75" |
| 9991 | WEAR PAD 2.50" ROUND |
| 13395 | WEAR PAD 3.00"X3.00"X1.00" |
| 13396 | WEAR PAD 2.50"X2.50""X1.00" |
| 8377 | PIN CAP .56 X 3.50 X .25 |
| 7403 | PIN CAP .44 X 2.50 X .25 |
| D0790 | WASHER 0.50 FLAT GR8 |
| 10172 | CAP SCR. 0.50-13 X 1.00" |
| 43858 | SHEAVE |
| 43857 | WIRE ROPE |
| 12824 | HITCH PIN 1.00" X 4.50" |
| 13436 | QUICK RELEASE PIN .38 X 4.00" |
| 11938 | LIMIT SWITCH (FLIP SHEAVE VERSION) |
| 35105 | LIMIT SWITCH (NON FLIP SHEAVE VERSION) |
| 19166 | CORD REEL |
| 35441 | BATTERY TUBE (AA) HOLDER (HETRONIC RADIO) |
| 19994PC | ANTI - 2 BLOCK WEIGHT |
| 27710 | ANTI - 2 BLOCK SPRING |
| 5753 | LYNCH PIN |
| 26762 | HOOK 7-TON |
| 38676 | 7-TON HOOK SAFETY LATCH ASM. |

## Limited Warranty Statement

Stellar Industries, Inc. (Stellar) warrants products designed and manufactured by Stellar to be free from defects in material and workmanship under proper use and maintenance. Products must be installed and operated in accordance with Stellar's written instructions and capacities. This warranty shall cover the following:

**Stellar Cranes, Stellar Hooklift Hoists, Stellar Cable Hoists, Stellar Container Carriers, Stellar Service Trucks, and Stellar X-Tra-Lift Systems:**
*Twelve (12) month warranty on parts from the date recorded by Stellar as the in-service date, not to extend beyond twenty-four (24) months from date of manufacture,*
*Twelve (12) month repair labor from the date recorded by Stellar as the in-service date, not to extend beyond twenty-four (24) month from date of manufacture, and*
*Thirty-six (36) month warranty on all Stellar Manufactured structural parts from the date recorded by Stellar as the in-service date, not to extend beyond forty-eight (48) months from date of manufacture.*

**Stellar Tarper Systems:**
*Twelve (12) month warranty on parts from the date recorded by Stellar as the in-service date, not to extend beyond twenty-four (24) months from date of manufacture and*
*Three (3) month repair labor from the date recorded by Stellar as the in-service date, not to extend beyond fifteen (15) month from date of manufacture.*

The in-service date will be derived from the completed warranty registration card. In the event a warranty registration card is not received by Stellar, the factory ship date will be used.

Stellar's obligation under this warranty is limited to, and the sole remedy for any such defect shall be, the repair and/or replacement (at Stellar's option) of the unaltered part and/or component in question. Stellar after-sales service personnel must be notified by telephone, fax, or letter of any warranty-applicable damage within fourteen (14) days of its occurrence. If at all possible, Stellar will ship the replacement part within 24-hours of notification by the most economical, yet expedient, means possible. Expedited freight delivery will be at the expense of the owner.

Warranty claims must be submitted and shall be processed in accordance with Stellar's established warranty claim procedure. Stellar after-sales service personnel must be contacted prior to any warranty claim. A return materials authorization (RMA) account number must be issued to the claiming party prior to the return of any warranty parts. Parts returned without prior authorization will not be recognized for warranty consideration. All damaged parts must be returned to Stellar freight prepaid; freight collect returns will be refused. Freight reimbursement of returned parts will be considered as part of the warranty claim.

Warranty service will be performed by any Stellar new equipment distributor, or by any Stellar-recognized service center authorized to service the type of product involved, or by the Stellar factory in the event of a direct sale. At the time of requesting warranty service, the owner must present evidence of date of delivery of the product. The owner shall be obligated to pay for any overtime labor requested of the servicing company by the owner, any field service call charges, and any towing and/or transportation charges associated with moving the equipment to the designated repair/service provider.

All obligations of Stellar and its authorized dealers and service providers shall be voided if someone other than an authorized Stellar dealer provides other than routine maintenance service without prior written approval from Stellar. In the case repair work is performed on a Stellar-manufactured product, original Stellar parts must be used to keep the warranty in force. The warranty may also be voided if the product is modified or altered in any way not approved, in writing, by Stellar.

The owner/operator is responsible for furnishing proof of the date of original purchase of the Stellar product in question. Warranty registration is the ultimate responsibility of the owner and may be accomplished by the completion and return of the Stellar product registration card provided with the product. If the owner is not sure of registration, he is encouraged to contact Stellar at the address below to confirm registration of the product in question. This warranty covers only defective material and workmanship. It does not cover depreciation or damage caused by normal wear and tear, accident, mishap, untrained operators, or improper or unintended use. The owner has the obligation of performing routine care and maintenance duties as stated in Stellar's written instructions, recommendations, and specifications. Any damage resulting from owner/operator failure to perform such duties shall void the coverage of this warranty. The owner will pay the cost of labor and supplies associated with routine maintenance.

The only remedies the owner has in connection with the breach or performance of any warranty on the Stellar product specified are those set above. In no event will Stellar, the Stellar distributor/dealer, or any company affiliated with Stellar be liable for business interruptions, costs of delay, or for any special, indirect, incidental, or consequential costs or damages. Such costs may include, but are not limited to, loss of time, loss of revenue, loss of use, wages, salaries, commissions, lodging, meals, towing, hydraulic fluid, or any other incidental cost.

All products purchased by Stellar from outside vendors shall be covered by the warranty offered by that respective manufacturer only. Stellar does not participate in, or obligate itself to, any such warranty.

Stellar reserves the right to make changes in design or improvement upon its products without imposing upon itself the same upon its products theretofore manufactured.

This warranty will apply to all Stellar Cranes, Stellar Hooklift Hoists, Stellar Cable Hoists, Stellar Container Carriers, Stellar Service Trucks, Stellar X-Tra-Lift Systems, and Stellar Tarper Systems shipped from Stellar's factory after January 1st, 2010. The warranty is for the use of the original owner only and is not transferable without prior written permission from Stellar.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN. STELLAR INDUSTRIES, INC. IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Revision Date: February 2010

Document Number: 37040