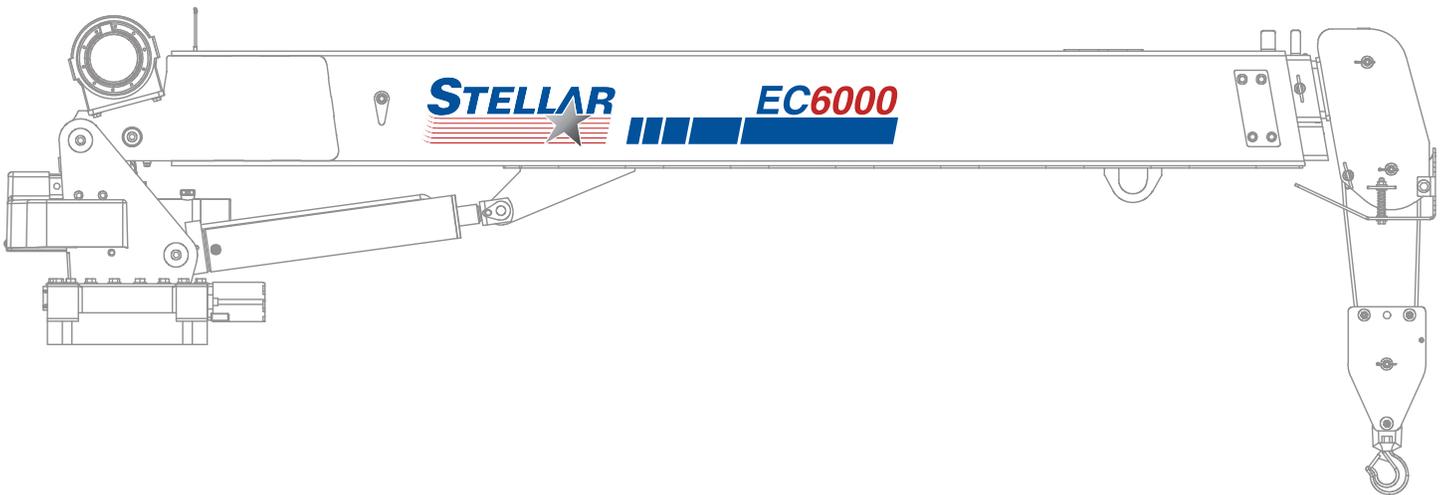


# **STELLAR**® **MODEL EC6000**

## **TELESCOPIC CRANE**

### **OWNERS' 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](http://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](http://www.stellarindustries.com)

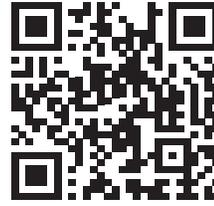
Subject to Change without Notification.  
© 2025 Stellar Industries, Inc.

Rev 1.11  
PN 65779

# 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](http://www.P65Warnings.ca.gov/passenger-vehicle).



[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## NOTICE

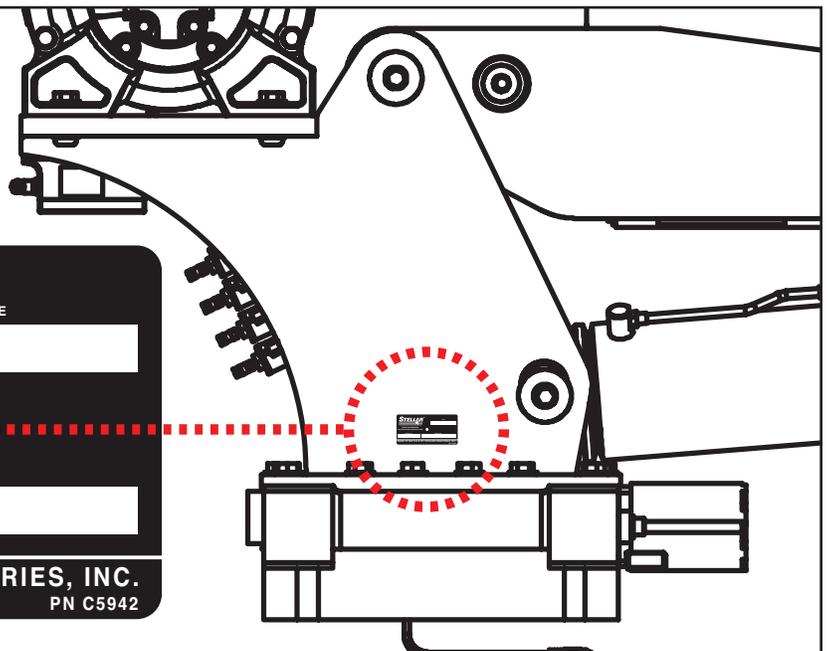
### Cold Weather Performance

*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

<b>STELLAR</b> <sup>®</sup>	DATE
	<input type="text"/>
PATENT INFORMATION <a href="http://www.stellarindustries.com/ip">http://www.stellarindustries.com/ip</a>	<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	



# Table of Contents

Introduction .....	ii
<b>Chapter 1 - Specifications .....</b>	<b>1</b>
Specifications .....	2
Capacity Chart - Decal PN 53525 .....	3
<b>Chapter 2 - Installation .....</b>	<b>5</b>
General Installation .....	6
Installer Notice .....	6
Torque Data Chart .....	7
Torquing Information & Warnings .....	7
Installation Overview .....	8
EC6000 Mounting Detail .....	9
Flatbed Body Reinforcement .....	9
EC6000 Installation Drawing .....	10
Hydraulic Kit - PN 54857 .....	12
Hydraulic Kit - PN 54857 Parts List .....	13
Valve Bank Drawing .....	14
Control Kit - PN 54859 .....	16
Control Kit - PN 54859 Parts List .....	17
EC6000 Wiring Diagram .....	18
Electrical Circuit Grounding .....	19
Fittings .....	20
Flat Face O-Ring Seal - FFORX .....	20
SAE 37° JIC .....	20
Fittings - Continued .....	21
O-Ring Boss .....	21
Face Seal Female Swivel Fittings .....	21
Stability Procedure .....	22
Decal Placement Kit - PN 53523 .....	23
<b>Chapter 3 - Drawing Assembly .....</b>	<b>25</b>
Base Assembly - PN 50364 .....	26
Gear Bearing - PN 47869 .....	27
Mast Assembly - PN 53379 .....	28
Mast Assembly - PN 53379 Parts List .....	29
Power Unit Assembly - PN 53378 .....	30
Main Boom Assembly - PN 53223 .....	32
Main Boom Assembly - PN 53223 Parts List .....	33
Extension Boom Assembly - PN 53264 .....	34
Extension Boom Assembly - PN 53264 Parts List .....	35
Gear Bearing Assembly - PN 47869 .....	36
Gear Bearing Assembly - PN 47869 .....	37
Cable & Hook Assembly - PN 50492 .....	38
Cable & Hook Assembly - PN 50492 Parts List .....	39
Radio Transmitter Assembly - PN 67894 .....	40

# 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:

## **NOTICE**

A 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 EC 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.

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](mailto: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](mailto:service@stellarindustries.com)

**Order Parts**

[parts@stellarindustries.com](mailto:parts@stellarindustries.com)

**Warranty Information**

[warranty@stellarindustries.com](mailto:warranty@stellarindustries.com)

# Chapter 1 - Specifications

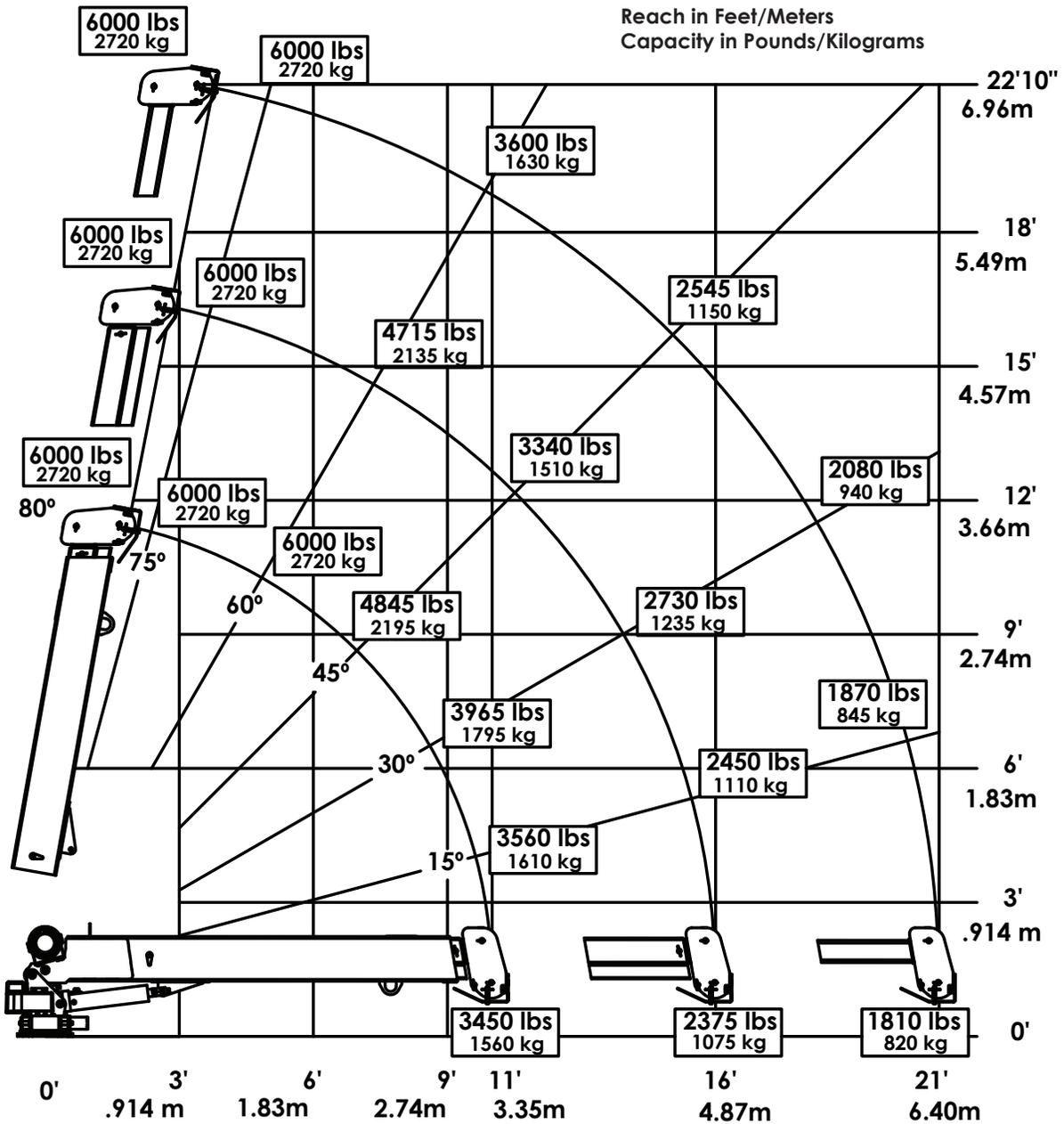
## Chapter Contents

Specifications .....	2
Capacity Chart - Decal PN 53525 .....	3

# Specifications

<b>EC6000</b>	
CRANE RATING	38,000 FT-LB (5.25 tm)
STANDARD BOOM LENGTH	11' (3.35 m) FROM CL OF CRANE
BOOM EXTENSION:	1ST STAGE: HYDRAULIC 60" (152.4 cm)
	2ND STAGE: MANUAL 60" (152.4 cm)
MAXIMUM HORIZONTAL REACH:	21' (6.40 m) FROM CL OF CRANE
MAXIMUM VERTICAL LIFT (FROM CRANE BASE)	22' 10" (6.96 m)
STOWED HEIGHT	34.41" (87.40 cm)
REQUIRED MOUNTING SPACE	20" X 21" (50.8 x 53.3 cm)
APPROXIMATE CRANE WEIGHT	1600 LB (725 kg)
CONTROLS	RADIO CONTROL STANDARD FOR ALL FUNC.
BOOM ELEVATION	-5 TO +80 DEGREES
<b>WINCH SPECIFICATIONS</b>	
ROPE LENGTH	90 ft (27.4m)
ROPE DIAMETER	5/16" (.79 cm)
LINE PULL SPEED:	16 FT/MIN (4.88 m/min)
MAX. SINGLE PART LINE:	3000 LB (1360 kg)
MAX. DOUBLE PART LINE	6000 LB (2720 kg)
ROTATION (WORM GEAR):	400 DEGREE POWER
LIFTING CAPACITY:	6000 LB @ 6'4" (2720 kg @ 1.9 m)
	2375 LB @ 16' (1075 kg @ 4.87 m)
	1810 LB @ 21' (820 kg @ 6.4 m)
POWER SUPPLY REQUIRED:	12 VOLT POWER UNIT
	(2.0 GPM @ 2600 PSI)
	(7.57 Lpm @ 179 Bar)
<b>SUBJECT TO CHANGE WITHOUT NOTIFICATION</b>	

# Capacity Chart - Decal PN 53525



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

Maximum 1 - part line capacity is 3000 lbs (1360 kg). For greater loads, use 2 - part line.

# STELLAR<sup>®</sup> EC6000

PN 53525

**This page left intentionally blank.**

# Chapter 2 - Installation

## Chapter Contents

General Installation .....	6
Installer Notice.....	6
Torque Data Chart.....	7
Torquing Information & Warnings .....	7
Installation Overview .....	8
EC6000 Mounting Detail .....	9
Flatbed Body Reinforcement.....	9
EC6000 Installation Drawing.....	10
Hydraulic Kit - PN 54857 .....	12
Hydraulic Kit - PN 54857 Parts List.....	13
Valve Bank Drawing .....	14
Control Kit - PN 54859 .....	16
Control Kit - PN 54859 Parts List .....	17
EC6000 Wiring Diagram .....	18
Electrical Circuit Grounding.....	19
Fittings .....	20
Flat Face O-Ring Seal - FFORX .....	20
SAE 37° JIC .....	20
Fittings - Continued .....	21
O-Ring Boss .....	21
Face Seal Female Swivel Fittings .....	21
Stability Procedure .....	22
Decal Placement Kit - PN 53523.....	23

## General Installation

This chapter is designed to serve as a general guide for the installation of a EC3200 Crane. 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.

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.

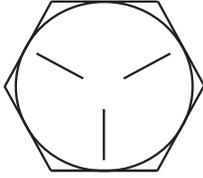
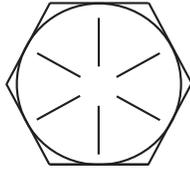
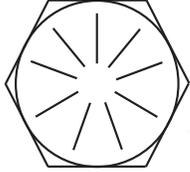
## Installer Notice

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

		GRADE 5		GRADE 7		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

## Torquing Information & Warnings

**⚠ WARNING** 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.
- **Sheer 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 on page 8, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

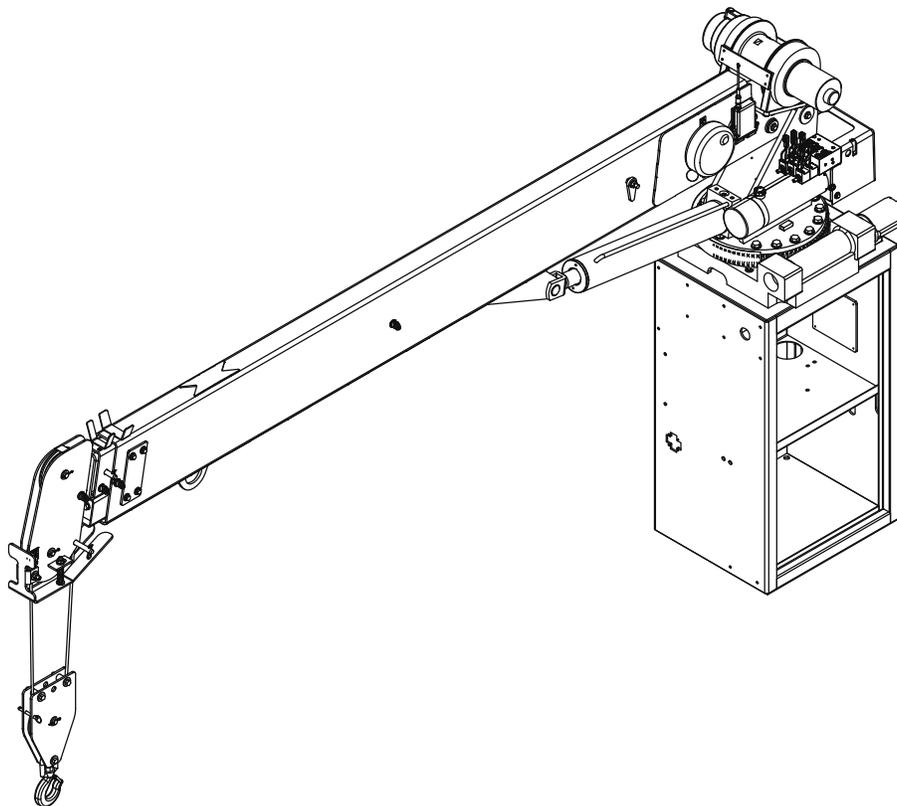
### NOTICE

*\*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.*

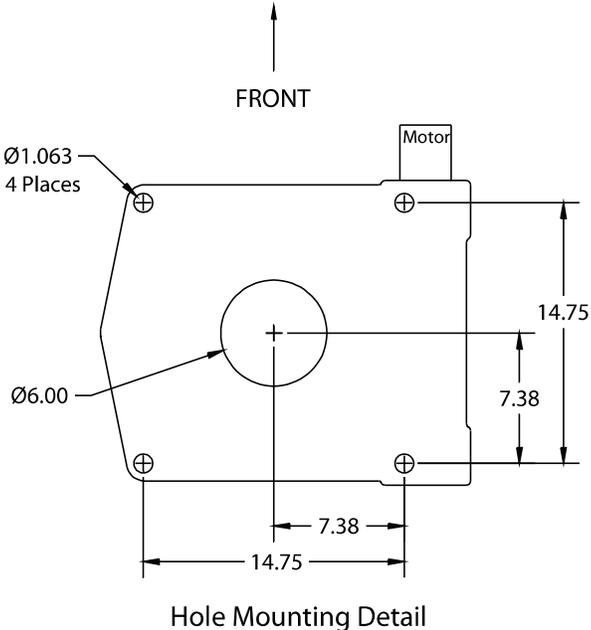
# Installation Overview

1. Determine that the mounting location for the EC6000 crane is at least 18" x 20" (45.7 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 EC6000 weighs approximately 1600 lbs (725 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 EC6000.
5. Use four (4) 1" x 3" Grade 8 bolts and four (4) 1" Grade 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 EC6000 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 bolts may be required – recommended thread engagement into crane base is 1.75" – use grade 8, zinc plated bolts only.
10. Torque the bolts to 680 ft-lbs.
11. Remove supporting crane.
12. Hook-up hydraulics and electrical using the schematics provided in this chapter.

**Note: If questions should arise during any portion of this installation, please contact Stellar Customer Service at (800) 321-3741.**

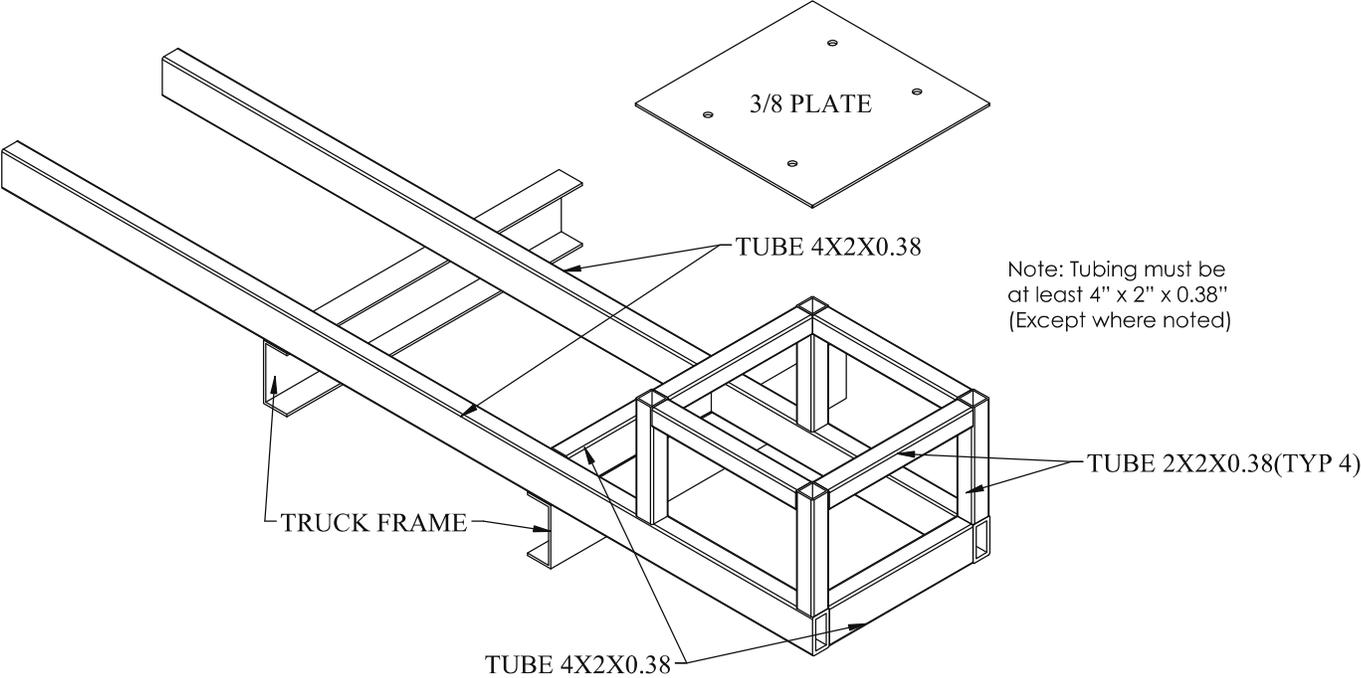


# EC6000 Mounting Detail

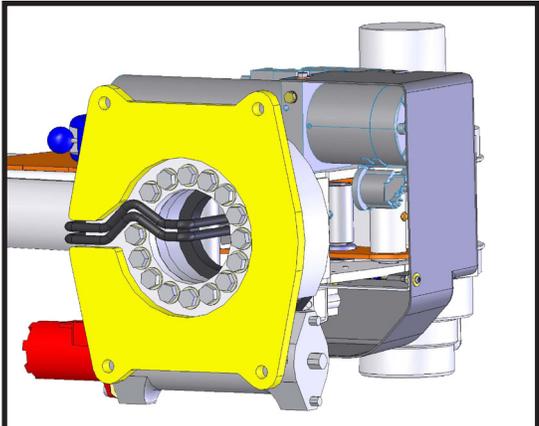
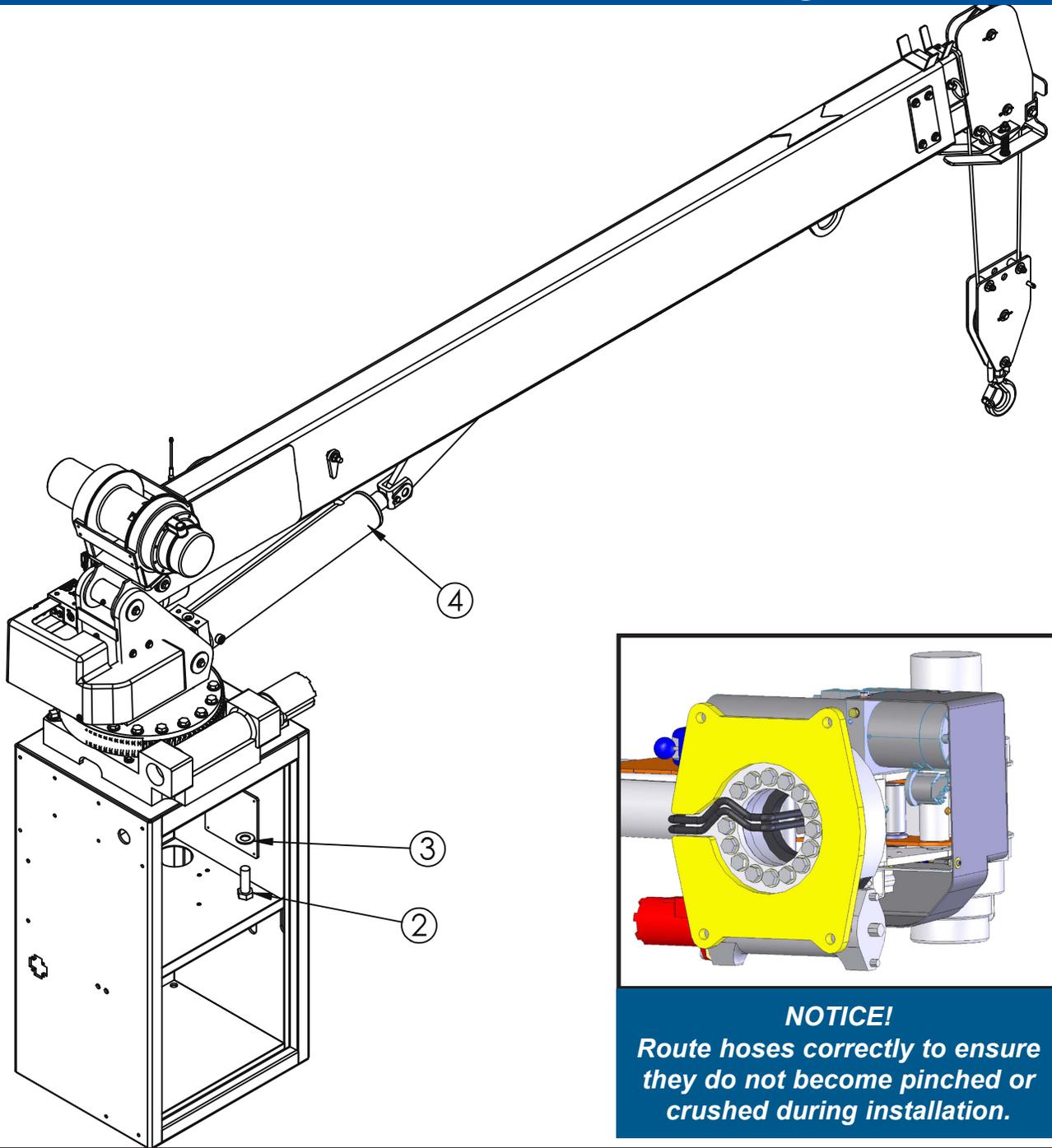


# Flattened Body Reinforcement

If it has been determined that the destination body won't support the crane with a fully rated load, the body must be reinforced. Use 1/4" fillet welds and an AWS qualified welder to proceed as shown in this drawing:



# EC6000 Installation Drawing



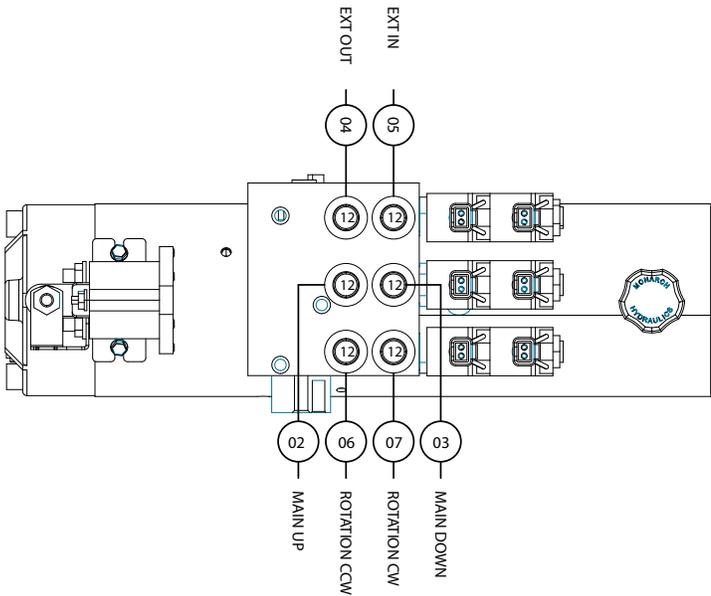
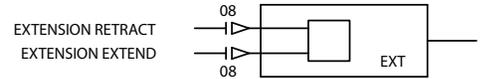
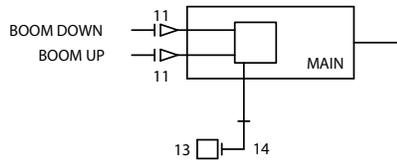
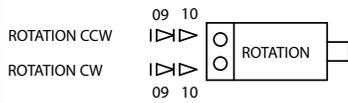
**NOTICE!**  
Route hoses correctly to ensure they do not become pinched or crushed during installation.

## INSTALLATION

ITEM	PART	DESCRIPTION	QTY
2	5199	CAP SCR 1.00X8X3.00 HHGR8 ZY	4
3	6538	WASHER 1.00 SAE FLAT YELLOW GR8	4
4	53376	CRANE EC6000	1

**This page left intentionally blank.**

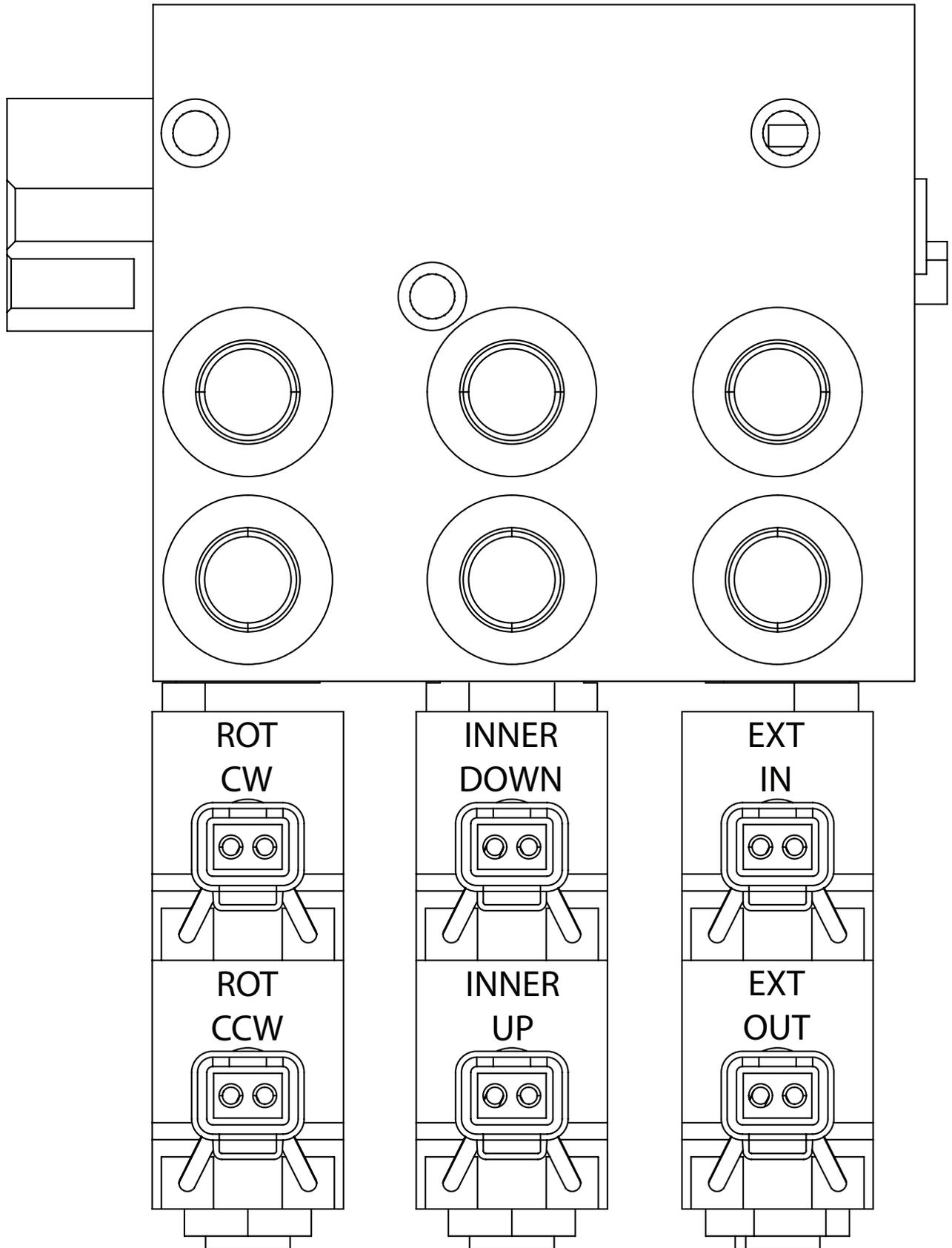
# Hydraulic Kit - PN 54857



# Hydraulic Kit - PN 54857 Parts List

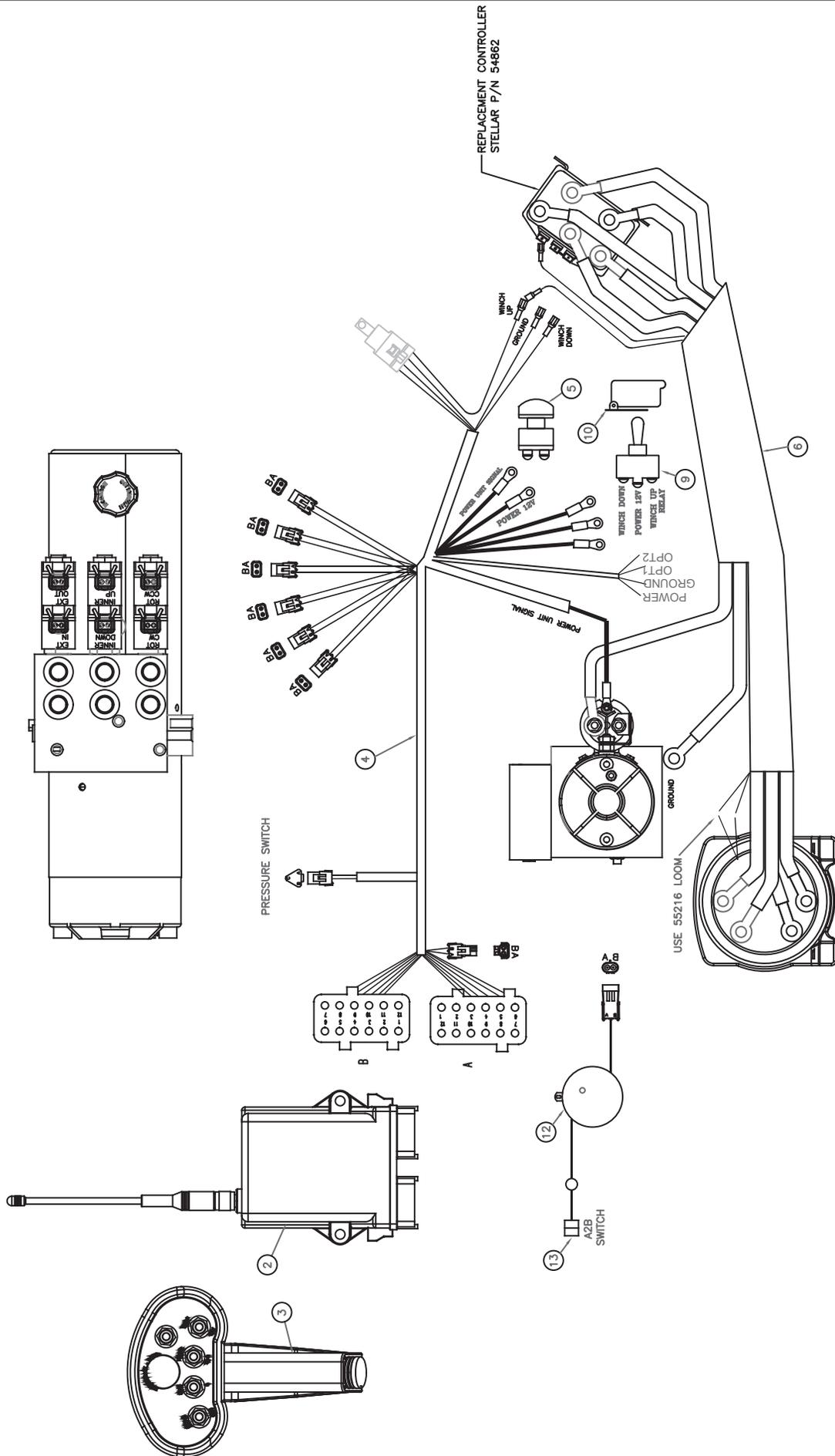
PN 54857			
1ITEM	PART	DESCRIPTION	QTY
01	56869	HOSE KIT EC6000 CRANE (INCL:2-7)	1
02	56870	HOSE-HYD .25 X 24	1REF
03	56871	HOSE-HYD .25 X 25	1REF
04	23903	HOSE-HYD .25 X 21	1REF
05	56872	HOSE-HYD .25 X 22	1REF
06	31065	HOSE-HYD .25 X 44	1REF
07	56873	HOSE-HYD .25X 45	1REF
08	C5572	FTG 4-4 MFS-MAORB 45	2
09	3338	FTG 4-6 MFS-MAORB 90	2
10	C1111	FTG 10-6 MORB-FORB STRAIGHT REDUCER	2
11	D1291	FTG 4-4 MFS-MORB STRAIGHT	2
12	C4922	FTG 4-6 MFS-MORB STRAIGHT	6
13	44534	SWITCH PRES OVERLD CD-11C-3200R/WD	1
14	3861	FTG 6-6 MAORB-FORB 90	1
REV. A			

# Valve Bank Drawing



**This page left intentionally blank.**

# Control Kit - PN 54859



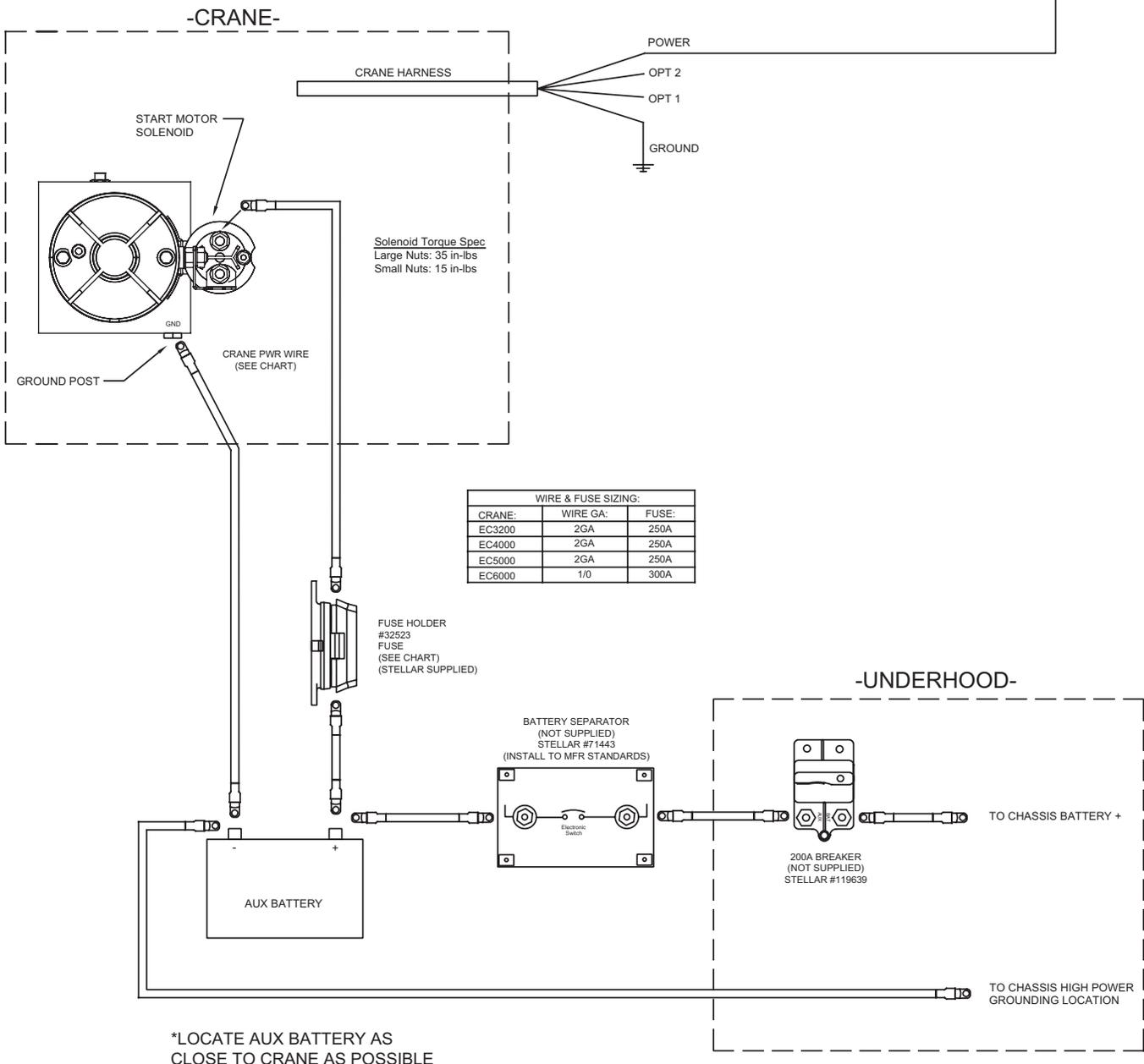
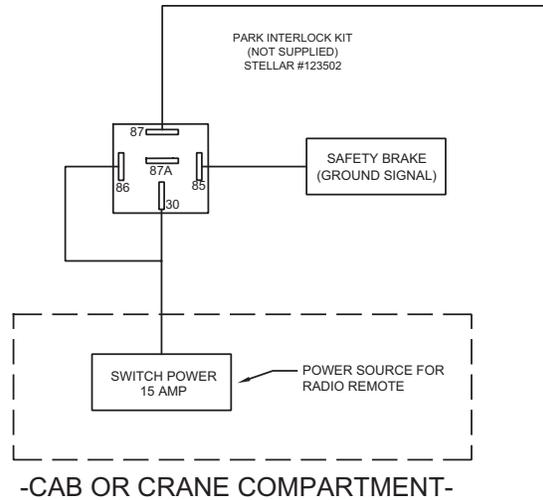
## Control Kit - PN 54859 Parts List

PN 54859			
ITEM	PART	DESCRIPTION	QTY
01	42976	RADIO CNTRL ASM 5 FCTN ON/OFF	1
02	—	RECEIVER-RADIO (PART OF 1)	REF
03	67894	TRANSMITTER-RADIO (PART OF 1)	REF
04	42805	WIRE HARNESS EC3200	1
05	17771	SWITCH PUSH BUTTON 9216-03	1
06	54860	WIRE HARNESS EC6000 CONTROLLER	1
07	32523	FUSE HOLDER 46039	1
08	54918	FUSE 300 AMP	1
09	47410	SWITCH MOM SPST 20A	1
10	47409	COVER SWITCH EC3200	1
11	55216	LOOM SPLIT 0.25	1 FT
12	72602	CORD REEL ASM 15/20/21 FT CRANE	REF
13	35105	SWITCH LIMIT (NO) ROLLER LVR LT BRKT	REF
REV. D			

**NOTE: PN 54860 INCLUDES HARNESS AND WINCH CONTROLLER.**

# EC6000 Wiring Diagram

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



WIRE & FUSE SIZING:		
CRANE:	WIRE GA:	FUSE:
EC3200	2GA	250A
EC4000	2GA	250A
EC5000	2GA	250A
EC6000	1/0	300A

# Electrical Circuit Grounding

When installing the crane, always locate a good source for grounding the circuit. A majority of electrical failures are due to poor grounding. Poor grounding can cause intermittent operation of the equipment, electrical component failures and cause the equipment to not operate at all.

Chassis manufacturers usually will have a ground strap which ties into the truck frame from the battery, but it is always a good idea to check each individual model to verify where the ground is located. Never use the mechanic body as a ground source. Make sure the electrical grounds are routed to either the chassis frame rail or the chassis's main grounding source.

Stellar provides a stud (PN 40992) for grounding the crane to the chassis frame rail:



Inside Frame Rail



Outside Frame Rail

## **⚠️ WARNING**

Drill the hole to the frame rail in accordance with the chassis body builder's guide.

- **Hole size: 21/64"**
- The hole location should allow for the shortest length of ground wire while keeping enough slack for flexibility.
- Be sure to grind the frame rail around the hole to ensure a proper ground connection.
- Frame rail thickness may require additional flat washers (as shown).
- Use an electrical coating on hardware to prevent corrosion.

# Fittings

## Flat Face O-Ring Seal - FFORX

**HOSE FITTING ONLY**



**FS**



SIZE	THREAD SIZE	LB-FT TORQUE
-4	9/16-18 UNF	21
-5	5/8-18 UNF	25
-6	11/16-16 UN	40
-8	13/16-16 UN	46
-10	1-14 UNS	50
-12	1-3/16-12 UN	75
-16	1-7/16-12 UN	104
-20	1-11/16-12 UN	141
-24	2-12 UN	166
-32	2-1/2-12 UN	423

## SAE 37° JIC

**HOSE FITTING & FEMALE SWIVEL FITTINGS**



**JIC**



SIZE	THREAD SIZE	LB-FT TORQUE
-2	5/16-24 UNF	7
-3	3/8-24UNF	9
-4	9/16-18 UNF	13
-5	5/8-18 UNF	16
-6	11/16-16 UN	20
-8	13/16-16 UN	41
-10	1-14 UNS	64
-12	1-3/16-12 UN	89
-16	1-7/16-12 UN	122
-20	1-11/16-12 UN	143
-24	2-12 UN	178
-32	2-1/2-12 UN	275

# Fittings - Continued

## O-Ring Boss

**HYDRAULIC FITTING ONLY**



-SIZE	THREAD SIZE	ORB	AORB
-4	7/16-20 UNF	15	23
-6	9/16-18 UNF	24	32
-8	3/4-16 UNF	40	55
-10	7/8-14 UNF	61	76
-12	1-1/16-12 UN	101	116
-16	1-5/16-12 UN	120	119
-20	1/5/8-12 UN	125	125
-24	1-7/8-12 UN	140	140
-32	2-1/2-12 UN	157	157

## Face Seal Female Swivel Fittings

**HYDRAULIC FITTING ONLY**



-SIZE	THREAD SIZE	LB-FT TORQUE
-4	9/16-18 UNF	13
-6	11/16-16 UN	23
-8	13/16-16 UN	40
-10	1-14 UNS	61
-12	1-3/16-12 UN	86
-16	1-7/16-12 UN	119
-20	1-11/16-12 UN	125
-24	2-12 UN	140

# 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 footings.
3. Operate the crane under partial load to assure operator proficiency and proper machine function.

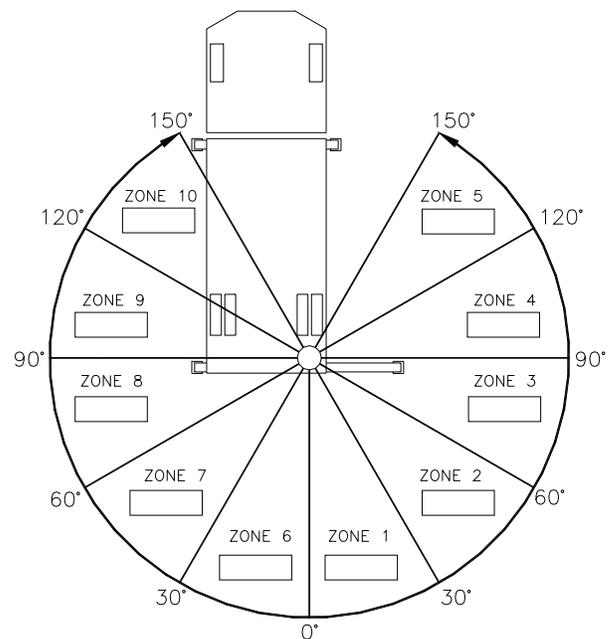
## EC6000 Stability Data

**Max Horizontal Reach:** 252" (From the center of rotation to boom tip)

**Stability Test Weight:** 2135 lbs.

## Test Procedure

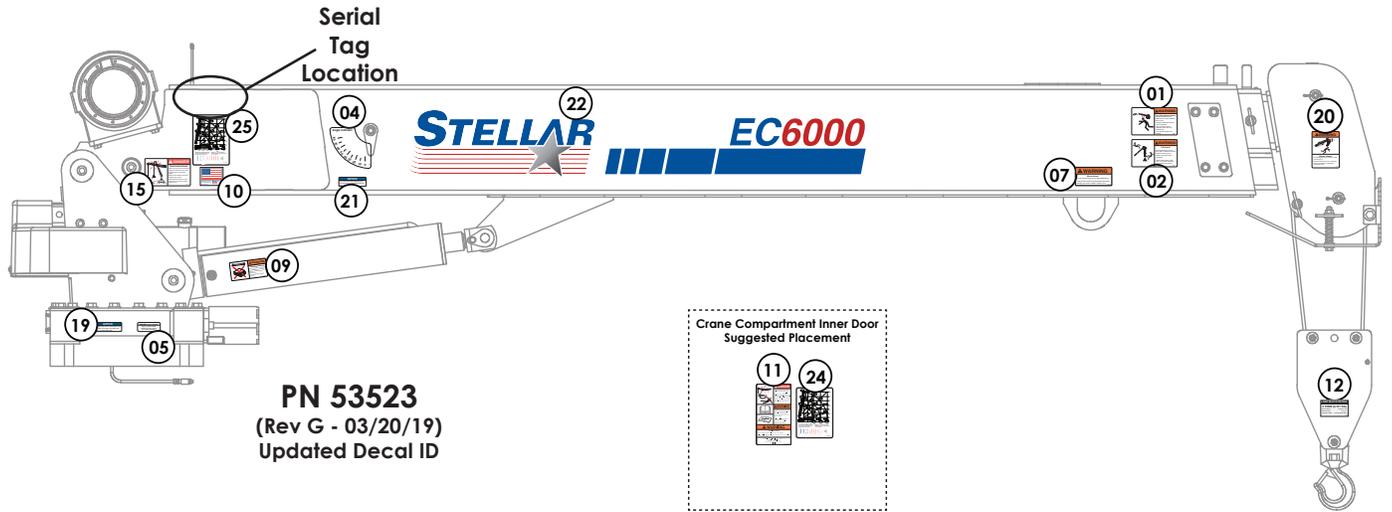
1. Rotate the crane into Zone 1 position.
2. With the crane fully retracted and the boom horizontal, winch the test weight off the ground.  
Note: Keep weight within six inches of the ground at all times.
3. Extend the boom outward until full extension has been reached or until the truck becomes unstable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



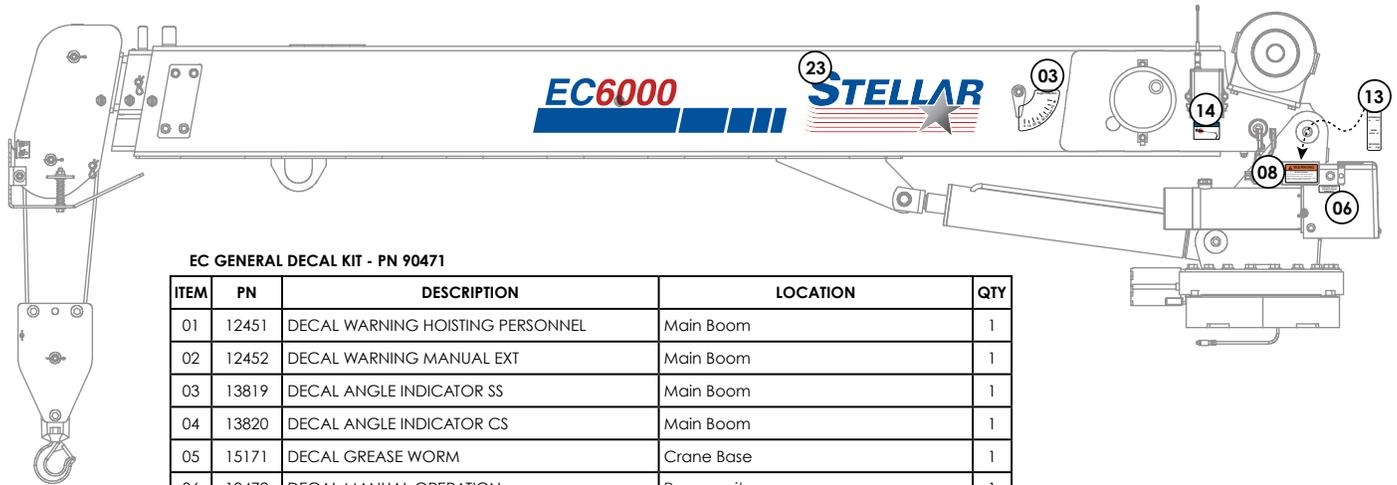
$$\frac{\text{Stable Horizontal Reach}}{\text{Max Horizontal Reach}} \times 100 = \text{Percentage of Rated}$$

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 Placement Kit - PN 53523



**PN 53523**  
(Rev G - 03/20/19)  
Updated Decal ID



## EC GENERAL DECAL KIT - PN 90471

ITEM	PN	DESCRIPTION	LOCATION	QTY
01	12451	DECAL WARNING HOISTING PERSONNEL	Main Boom	1
02	12452	DECAL WARNING MANUAL EXT	Main Boom	1
03	13819	DECAL ANGLE INDICATOR SS	Main Boom	1
04	13820	DECAL ANGLE INDICATOR CS	Main Boom	1
05	15171	DECAL GREASE WORM	Crane Base	1
06	18472	DECAL MANUAL OPERATION	Power unit cover	1
07	24712	DECAL WARNING STOW HOOK	Crane Boom above stow hook	1
08	25159	DECAL WARNING MANUAL OVERRIDES	Valve Bank	1
09	28256	DECAL WARNING OVERLOAD DEVICE	Main Cylinder	1
10	35234	DECAL STELLAR MADE IN THE USA	Main Boom	1
11	93936	DECAL SAFETY & SERVICE MECH BODY DOOR	Crane Compartment	1
12	116438	DECAL SNATCH BLOCK 3 TON	Snatch Block	1
13	42820	DECAL VB CONTROL EC SERIES	On top of valve bank	1
14	73929	DECAL PRESSURE WASH	Main Boom	1
15	C1179	DECAL DANGER ELECTROCUTION SMALL	Main Boom	1
16*	C4545	DECAL DANGER ELECTROCUTION LARGE	Four corners of the body/chassis	4
17*	C5910	DECAL STELLAR 4x9.5	Suggested: Rear body/tailgate	1
18*	C5911	DECAL STELLAR 2x4.5	Suggested: Side corners of body	3

## EC6000 DECAL KIT - PN 90488

ITEM	PN	DESCRIPTION	LOCATION	QTY
19	9188	DECAL ROTATE/GREASE	Crane Base	1
20	12300	DECAL WARNING TWO BLOCKING	Crane Horse Head	1
21	15172	DECAL ASME/ANSI B30.22/B30.5	Main Boom	1
22	101067	DECAL IDENTIFICATION EC6000 LEFT	Main Boom	1
23	101068	DECAL IDENTIFICATION EC6000 RIGHT	Main Boom	1
24	53525	DECAL CAPACITY EC6000	Main Boom and Crane Compartment	2
25*	C4795	DECAL WARNING STABILIZERS	Stabilizers	2

\*Not Shown

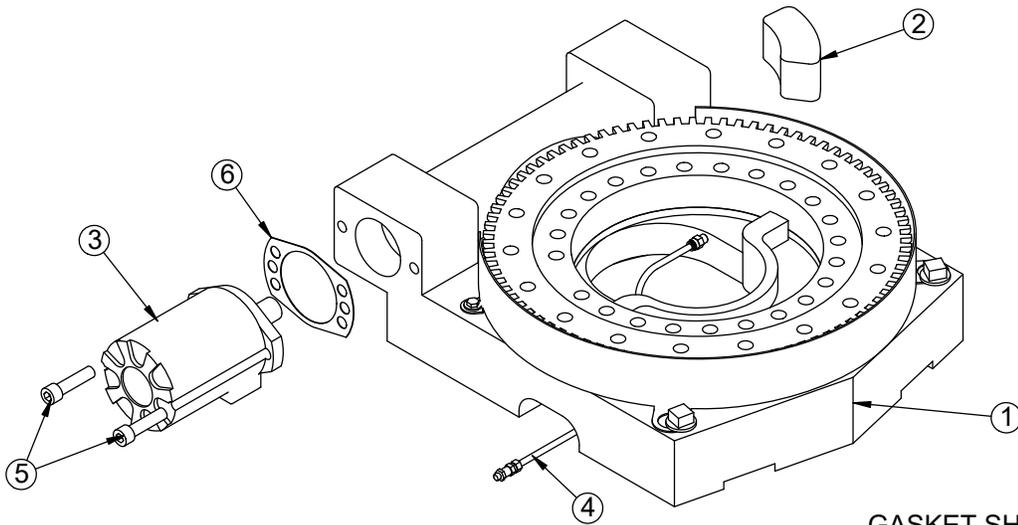
**This page left intentionally blank.**

# Chapter 3 - Drawing Assembly

## Chapter Contents

Base Assembly - PN 50364 .....	26
Gear Bearing - PN 47869.....	27
Mast Assembly - PN 53379.....	28
Mast Assembly - PN 53379 Parts List.....	29
Power Unit Assembly - PN 53378 .....	30
Main Boom Assembly - PN 53223 .....	32
Main Boom Assembly - PN 53223 Parts List .....	33
Extension Boom Assembly - PN 53264 .....	34
Extension Boom Assembly - PN 53264 Parts List .....	35
Gear Bearing Assembly - PN 47869 .....	36
Gear Bearing Assembly - PN 47869 .....	37
Cable & Hook Assembly - PN 50492 .....	38
Cable & Hook Assembly - PN 50492 Parts List .....	39
Radio Transmitter Assembly - PN 67894 .....	40

# Base Assembly - PN 50364



GASKET SHOWN AS REFERENCE

## PN 50364

ITEM	PART	DESCRIPTION	QTY
1	47869	BEARING SWING DRIVE CAST 6620 GEARTEK	1
2	11542	STOP 6620 400 SLIDE	1
3	C6069	MOTOR HYD ROSS MK080613AAAB	1
4	104018	HARDWARE KIT BASE ASM 30IN GREASE LINE	1
5	53495	CAP SCR 0.50-13X2.00 SH	2
6	21151	GASKET MOTOR 008-10056-1	1

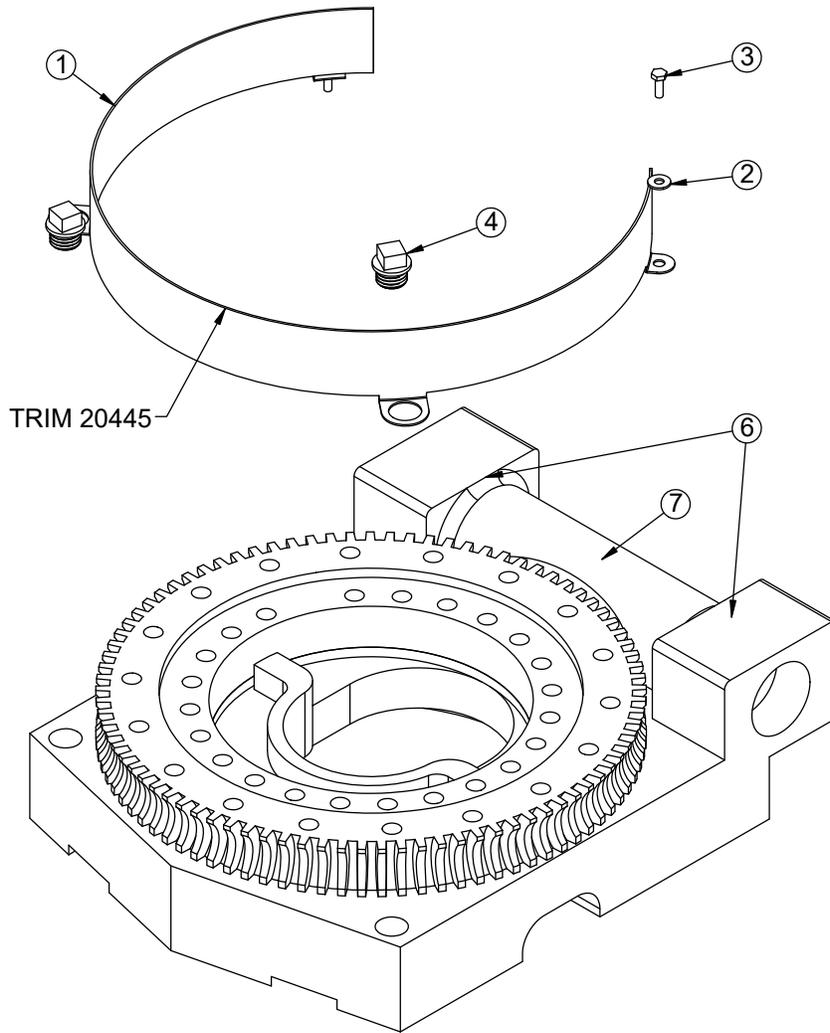
REV. D

PART	DESCRIPTION	QTY
D1307	CAP SCR 0.50-13X1.25 SHGR8 W/ RED PATCH	2

**NOTE: ITEM #1 INCLUDES GUARD AND GUARD FASTENERS.**

**\*NOTE: CAP SCREW FOR MOTOR DEPENDS ON BEARING SUPPLIER USE 53495 (2) FOR PG USE D1307 (2) FOR GP.**

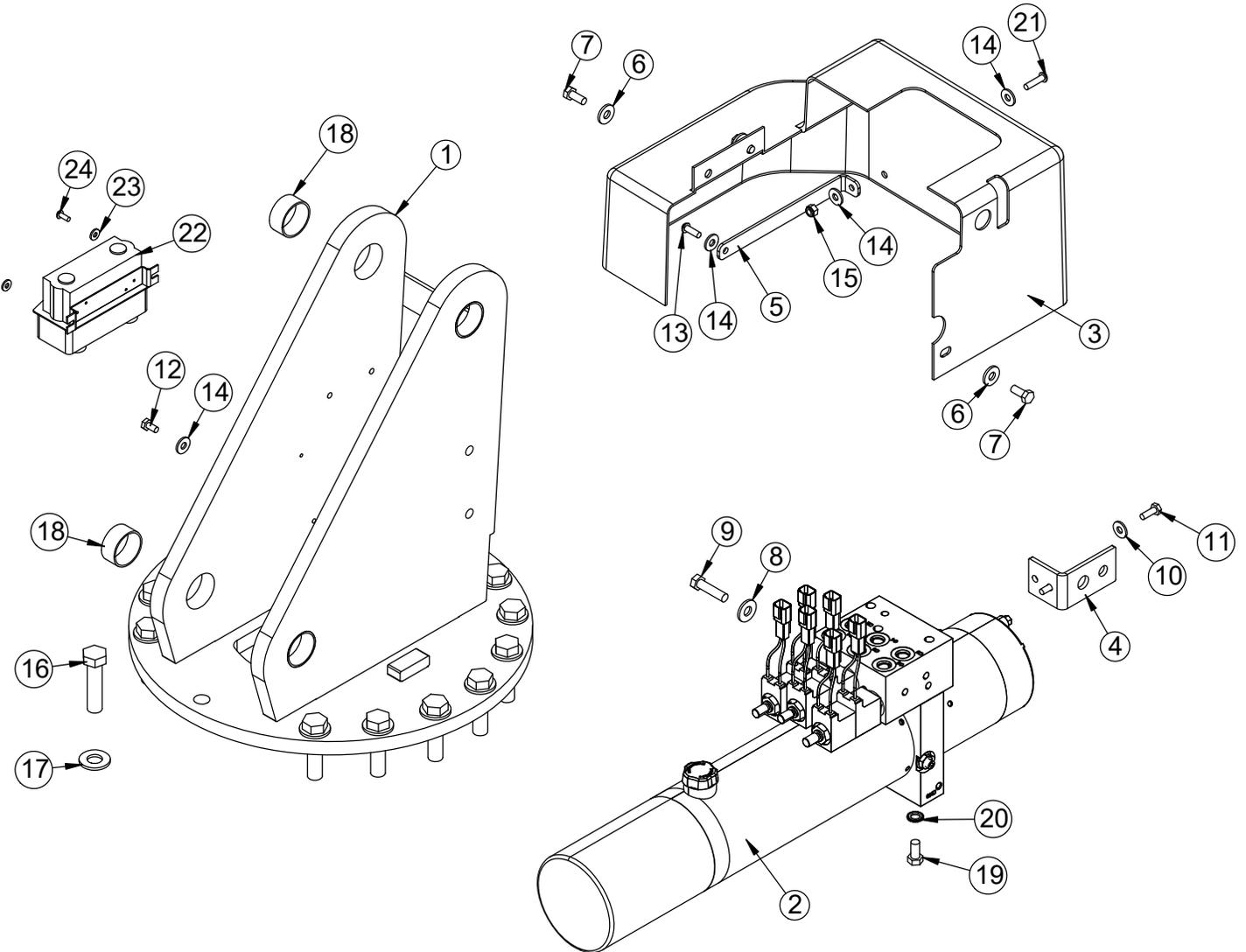
# Gear Bearing - PN 47869



## PN 47869

ITEM	PART	DESCRIPTION	QTY
1	44551PC	DEFAULT	1
2	0340	WASHER 0.25 FLAT	2
3	0479	CAP SCR 0.25-20X0.75 HHGR5	2
4	13959	CAP SCR 1.00-8 X .63 PLASTIC	2
5	20445	TRIM EDGE 0.06X0.56 AL 0.63 BULB	42"
ITEM	PART	DESCRIPTION	QTY
6	55829	BEARING AND SEAL KIT 66/76 PERFECTION CAST	1
7	55827	WORM PERFECTION 66/76	1
ITEM	PART	DESCRIPTION	QTY
6	25896	BEARING AND SEAL KIT 10620 GP CAST	1
7	25895	WORM 10620 GP	1

# Mast Assembly - PN 53379



# Mast Assembly - PN 53379 Parts List

PN 53379			
ITEM	PART	DESCRIPTION	QTY
1	53200	MAST EC6000	1
2	53378	POWER UNIT 12V EC6000	1
3	44475	COVER EC3200 HDPE	1
4	47411	BRKT OVERRIDE BUTTON EC3200	1
5	51896	BRKT COVER EC CRANES	1
6	0343	WASHER 0.31 USS FLAT	3
7	0420	CAP SCR 0.31-18X0.75 HHGR5	3
8	0346	WASHER 0.38 USS FLAT	2
9	0345	CAP SCR 0.38-16X1.50 HHGR5	2
10	0340	WASHER 0.25 USS FLAT	2
11	0479	CAP SCR 0.25-20X0.75 HHGR5	2
12	0478	CAP SCR 0.25-20X0.50 HHGR5	1
13	C6021	CAP SCR 0.25-20X0.75 BTNHD SS	1
14	D0917	WASHER 0.25 FLAT SS	4
15	30659	NUT 0.25-20 HH NYLOC SS	1
16	C1026	CAP SCR 0.63-11X2.50 HHGR8	16
17	C5902	WASHER 0.63 SAE FLAT YELLOW GR8	16
18	21810	BUSHING BPC24DXR12 1.50X.75	4
19	0492	CAP SCR 0.38-16X0.75 HHGR5	1
20	5870	WASHER 0.38 STAR EXTERNAL	1
21	C6022	CAP SCR 0.25-20X1.00 BTNHD SS	1
22	54862	CONTROLLER WARN 34278 DO EC6000	1
23	D0178	WASHER #10 SAE FLAT	2
24	D1711	CAP SCR #10-24X0.50 BTNHD SS	2
REV B REQ912 20250527			

**NOTES:**

**HARDWARE KITS:**

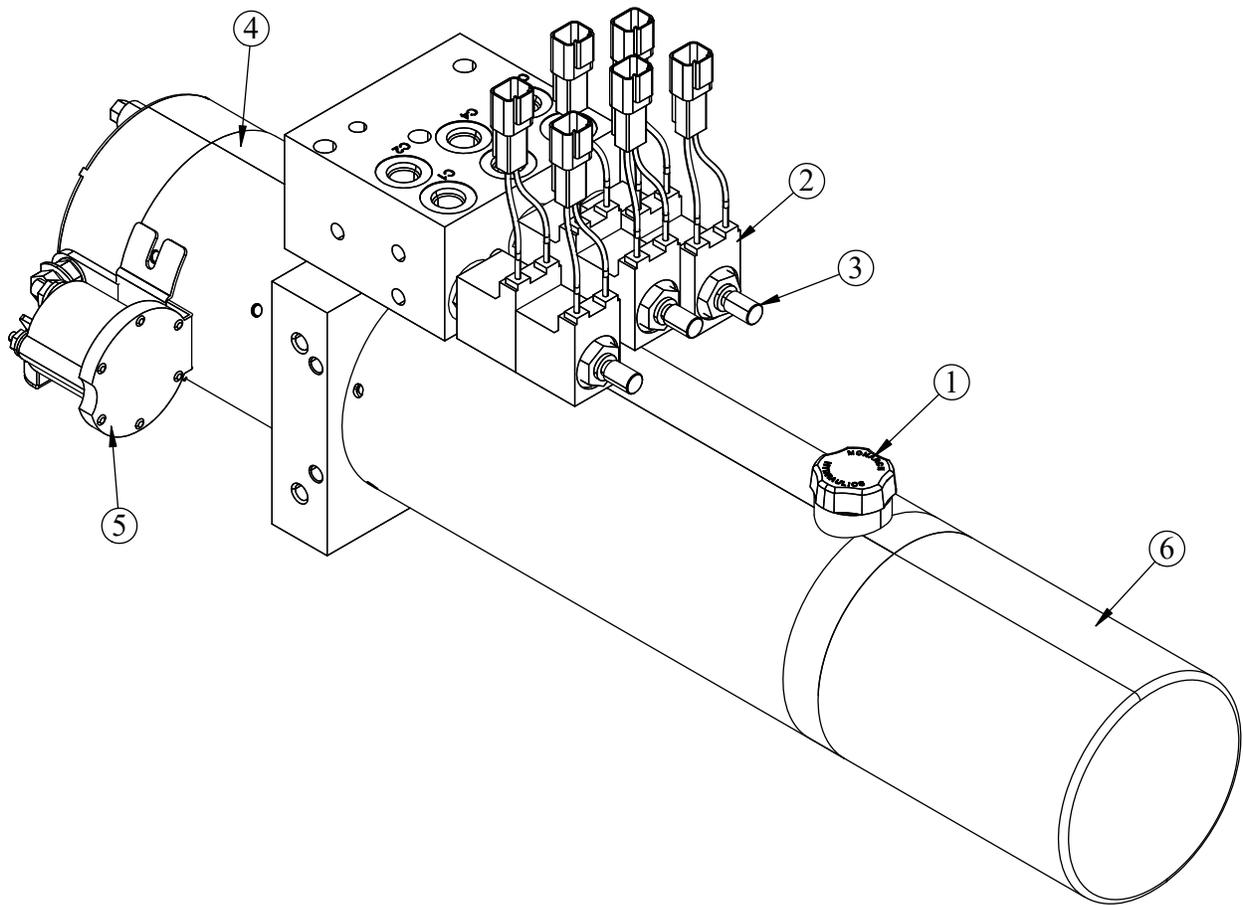
**99832**

**92515**

**92513.**

**CONTROLLER SHOWN AS REFERENCE.**

# Power Unit Assembly - PN 53378

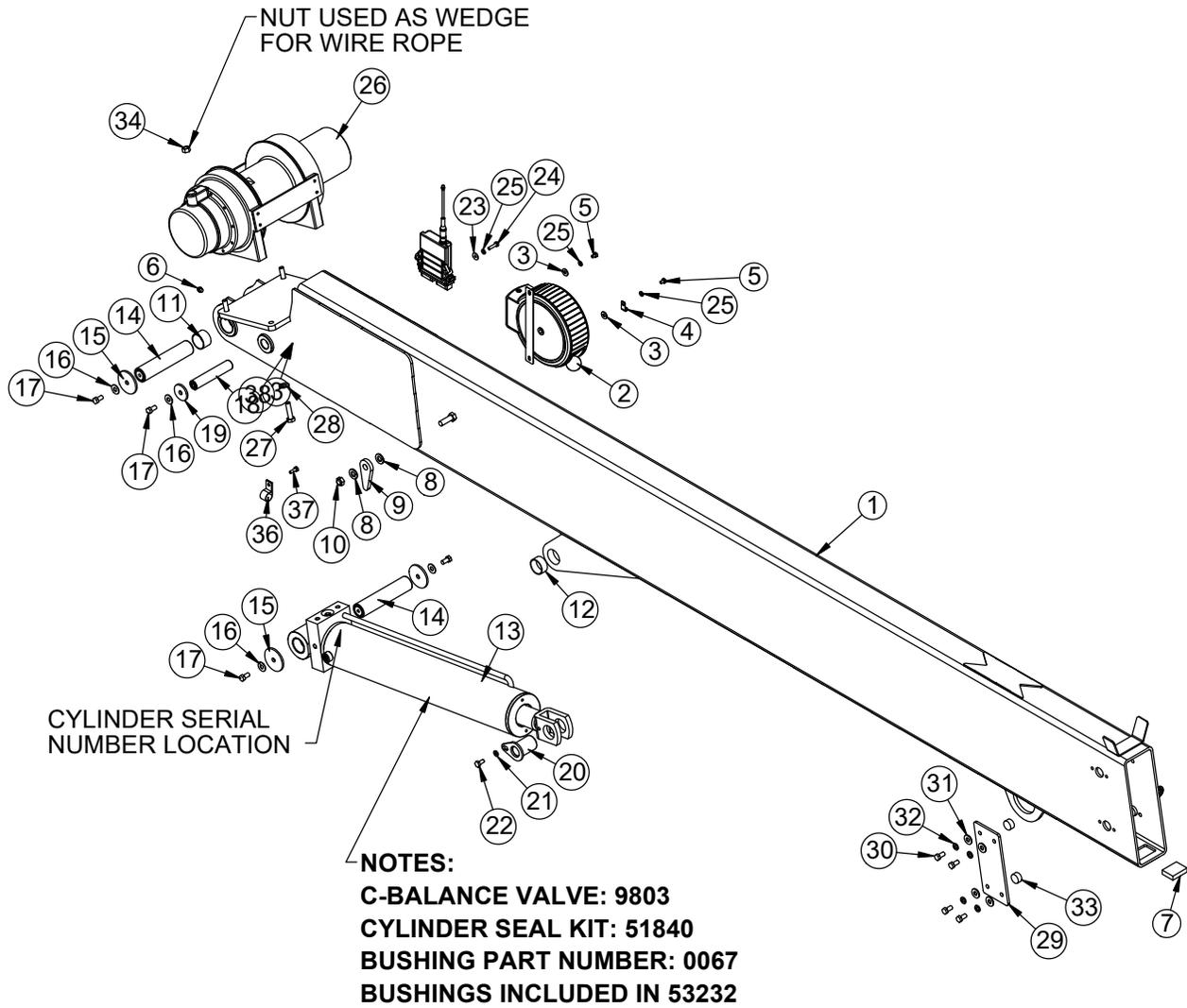


## PN 53378

ITEM	PART	DESCRIPTION
1	44025	FILL CAP - HYDRAULIC RESERVOIR
2	44027	VALVE COIL EC3200 POWERUNIT
3	44028	VALVE CARTRIDGE EC3200 UNIT
4	44029	MOTOR 12V EC3200 POWER UNIT
5	44030	SOLENOID START EC3200 P-UNIT
6	60242	RSRVR EC6000 POWER UNIT

**This page left intentionally blank.**

# Main Boom Assembly - PN 53223



# Main Boom Assembly - PN 53223 Parts List

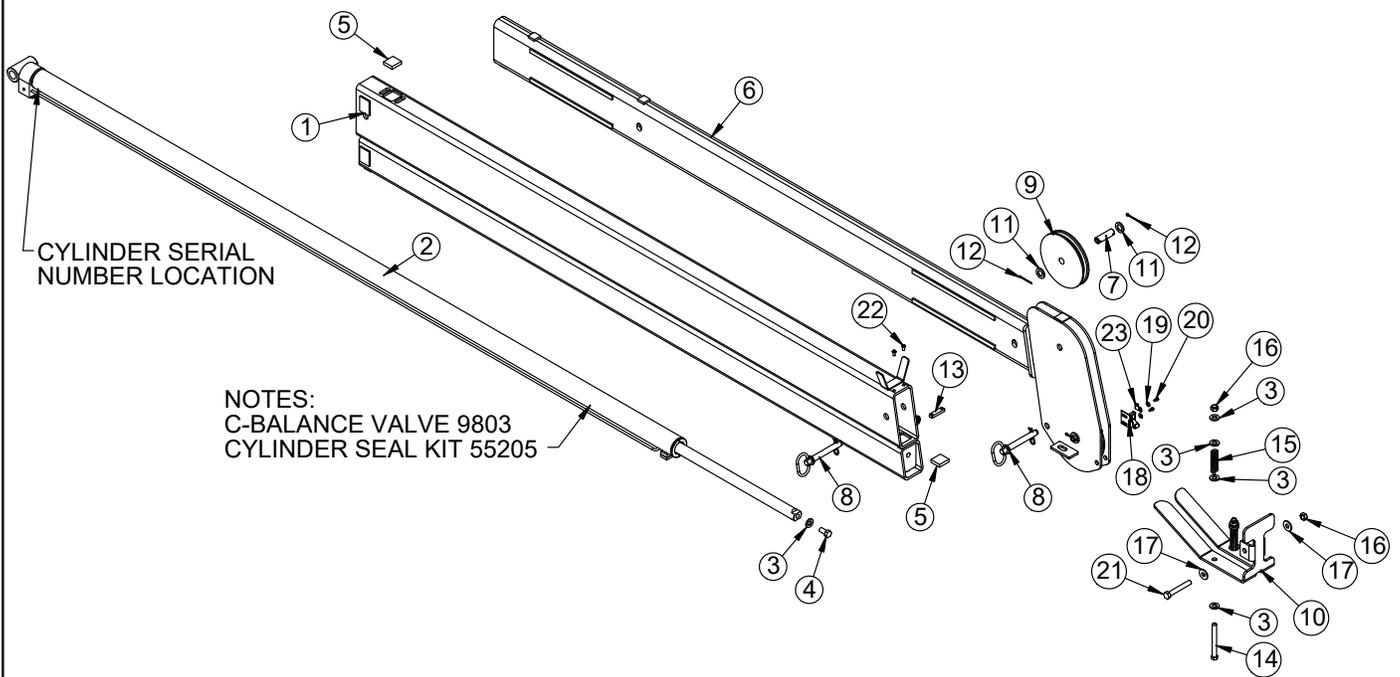
PN 53223			
ITEM	PART	DESCRIPTION	QTY
1	53224	INNER BOOM EC6000	1
2	72602	CORD REEL ASM 15/21 FT CRANE	1
3	0340	WASHER 0.25 USS FLAT	3
4	C5606	CLAMP 0.25 BLK VINYL	1
5	43845	CAP SCR 0.25-20X0.38 HHGR5	2
6	C1592	ZERK 1/8 NPT STRAIGHT	1
7	42508	WEAR PAD 0.50X1.50X2.00	1
8	D0790	WASHER 0.50 FLAT GR8	4
9	13815	PLATE ANGLE INDICATR PC BLACK	2
10	C6106	NUT 0.50-13 HHGR5 NYLOC	2
11	16067	BUSHING QSI-2426-16	2
12	21810	BUSHING GSI-2426-12 1.50X0.75	1
13	53232	CYLINDER 4.00X21.00	1
14	53231CR	PIN 1.50X6.88 D&T ZC	2
15	7403	PIN CAP 0.44X2.50X0.19 YZ	4
16	C6353	WASHER 0.38 FLAT GR8	6
17	9843	CAP SCR 0.38-16X0.75 HHGR8	6
18	42516CR	PIN 1.00X5.13 D&T ZC	1
19	9320	PIN CAP 0.44X1.75X0.19 YZ	2
20	53518CR	PIN TEAR DROP 1.50X2.19 ZC	1
21	5591	WASHER 0.31 SAE FLAT YELLOW GR8	1
22	53521	CAP SCR 0.31-18X0.75 HHGR8	1
23	D0917	WASHER 0.25 FLAT SS	2
24	0480	CAP SCR 0.25-20X1.00 HHGR5	2
25	0521	WASHER 0.25 LOCK	4
26	53230	WINCH 3000DC WARN	1
27	50111	CAP SCR 12MMX45MM HHGR8	4
28	42788	WASHER 0.44 SAE FLAT YELLOW GR8	4
29	51168	COVER WEAR PAD EC5000 PC WHITE	2
30	0492	CAP SCR 0.38-16X0.75 HHGR5	8
31	0346	WASHER 0.38 USS FLAT	8
32	0523	WASHER 0.38 LOCK	8
33	51169	WEAR PAD 0.50X1.00 RND	4
34	0536	NUT 0.44-14 HHGR5	1
36	C0082	CLAMP 0.75 BLK VINYL	1
37	0479	CAP SCR 0.25-20X0.75 HHGR5	1
38	0333	NUT 0.25-20 HHGR5 NYLOC	1
REV. G			

**NOTES:**

**HARDWARE KIT: 97590.**

**RADIO RECEIVER SHOWN AS REFERENCE ONLY.**

# Extension Boom Assembly - PN 53264



# Extension Boom Assembly - PN 53264 Parts List

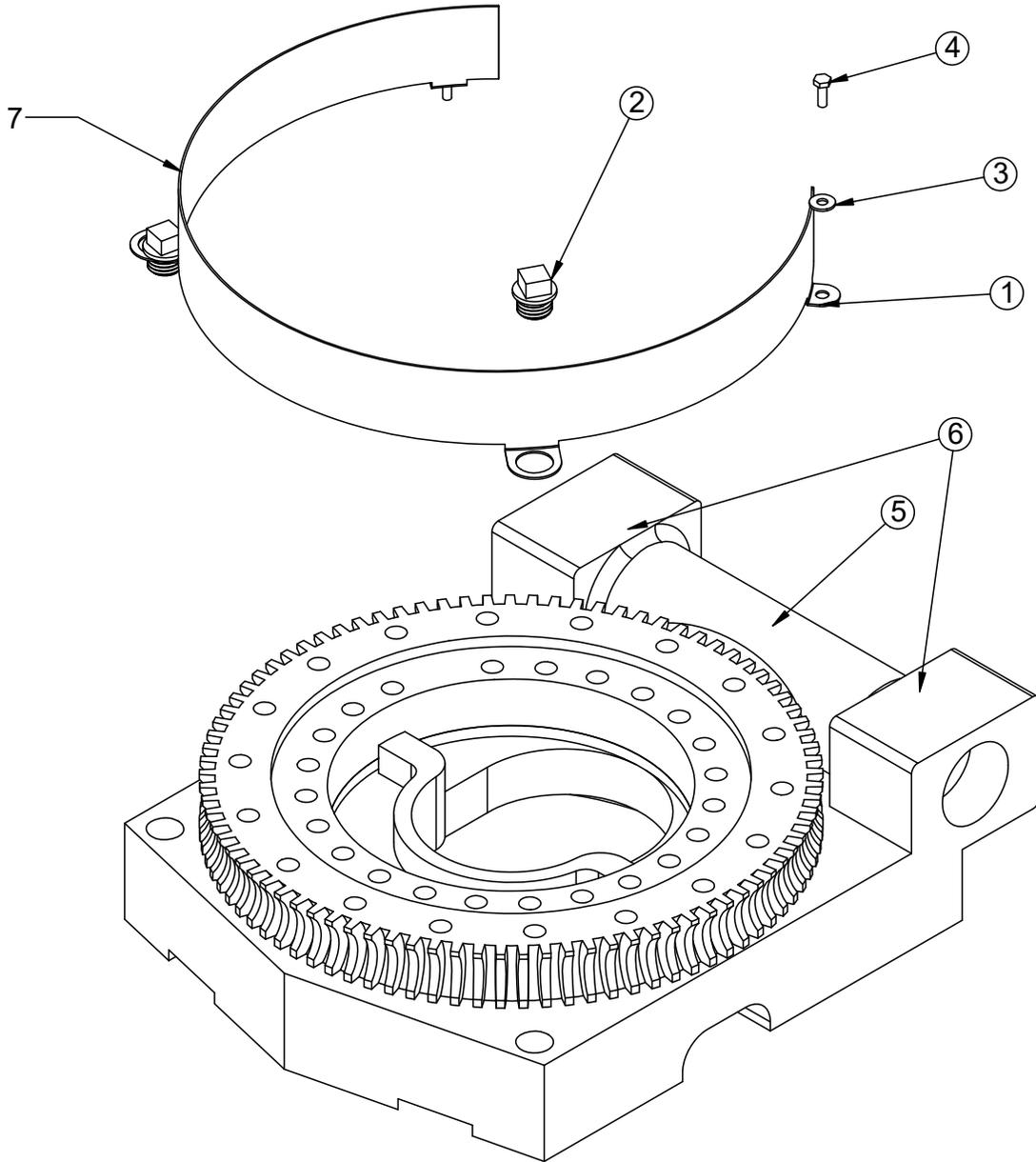
## PN 53264

ITEM	PART	DESCRIPTION	QTY
1	50612	EXT BOOM 1ST EC5000	1
2	53265	CYLINDER 2.00X60.00 EC6000	1
3	D0790	WASHER 0.50 FLAT GR8	9
4	10172	CAP SCR 0.50-13X1.00 HHGR8 ZY	1
5	42509	WEAR PAD 0.38X1.38X1.50	2
6	50617	EXT BOOM 2ND EC5000	1
7	42524CR	PIN 0.75X2.50 COTTER ZC	2
8	42977	PIN HITCH 0.63X4.00	2
9	50387	SHEAVE EC4000 6.75 DIA .31R/1.00THK	2
10	50386	PLATE CRADLE EC4000 PC BLACK	1
11	0423	MACHY WASHER 0.75ID 10GA	4
12	37824	COTTER PIN .125X1.00	4
13	42978	FLAT BOOM STOP EC3200 PC BLACK	1
14	0507	CAP SCR 0.50-13X4.50 HHGR5	2
15	27710	SPRING ANTI 2 BLOCK CRADLE A2B	2
16	C6106	NUT 0.50-13 HHGR5 NYLOC	3
17	0352	WASHER 0.50 USS FLAT ZINC	2
18	29085	SWITCH LIMIT E1117-B9111-6C	1
19	D0178	WASHER #10 SAE FLAT ZINC	2
20	43846	SCREW #10-24X0.38 SH SS	2
21	0505	CAP SCR 0.50-13X3.50 HHGR5	1
22	D0561	CAP SCR 0.25-20X0.50 BTNHD SS	2
23	C5606	CLAMP 0.25 BLK VINYL	1

REV. B - 20260420

**NOTE: HARDWARE KIT: 92509**

# Gear Bearing Assembly - PN 47869



# Gear Bearing Assembly - PN 47869

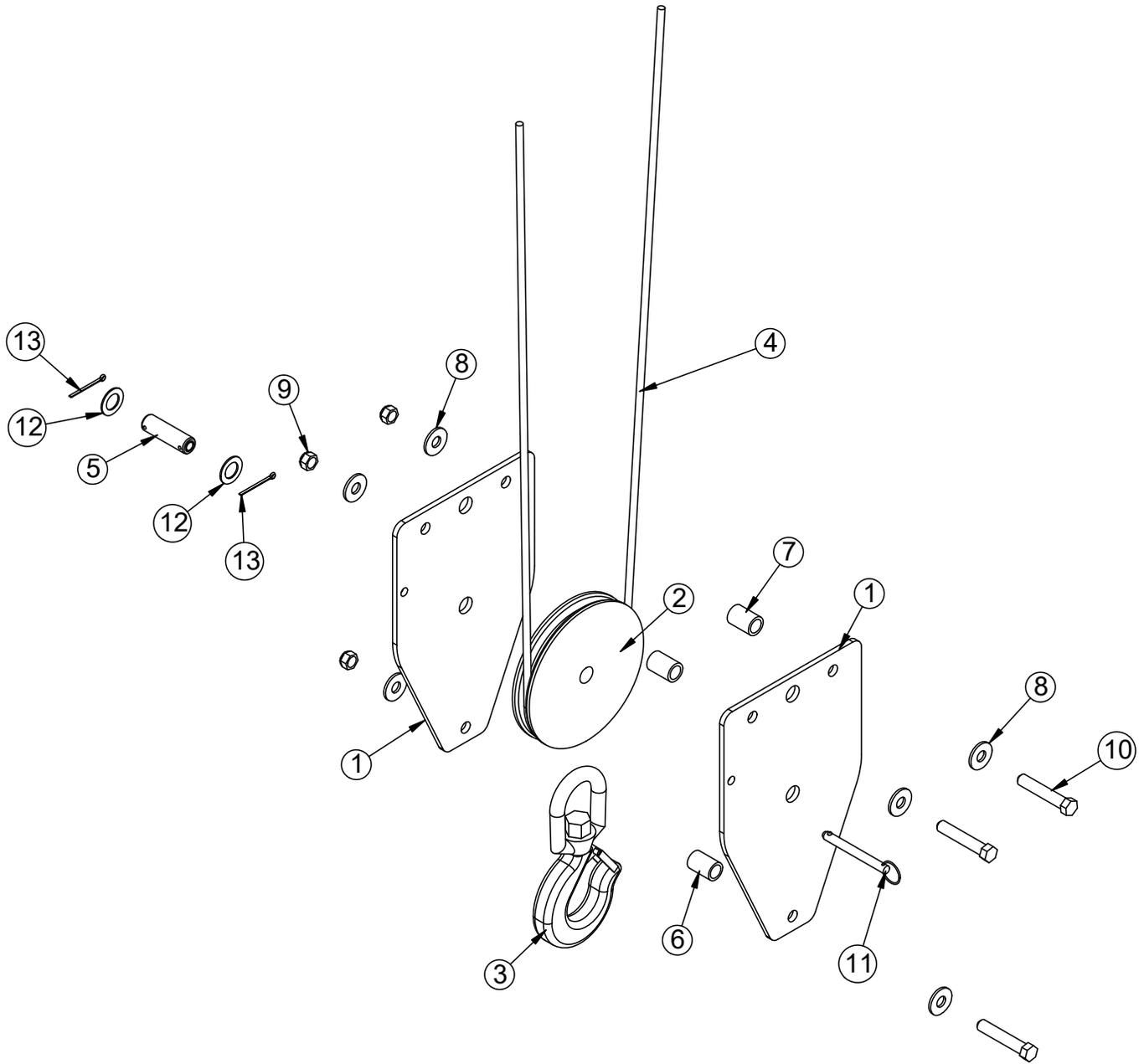
## PN 47869

ITEM	PART	DESCRIPTION	QTY
1	44551PC	DEFAULT	1
2	340	WASHER 0.25 FLAT	2
3	479	CAP SCR 0.25-20X0.75 HHGR5	2
4	13959	CAP SCR 1.00-8 X .63 PLASTIC	2
5	20445	TRIM EDGE 0.06X0.56 AL 0.63 BULB	42"
REV. INITIAL RELEASE			

ITEM	PART	DESCRIPTION	QTY
6	55829	BEARING AND SEAL KIT 66/76 PERFECTION CAST	1
7	55827	WORM PERFECTION 66/76	1

ITEM	PART	DESCRIPTION	QTY
6	25896	BEARING AND SEAL KIT 10620 GP CAST	1
7	25895	WORM 10620 GP	1

# Cable & Hook Assembly - PN 50492

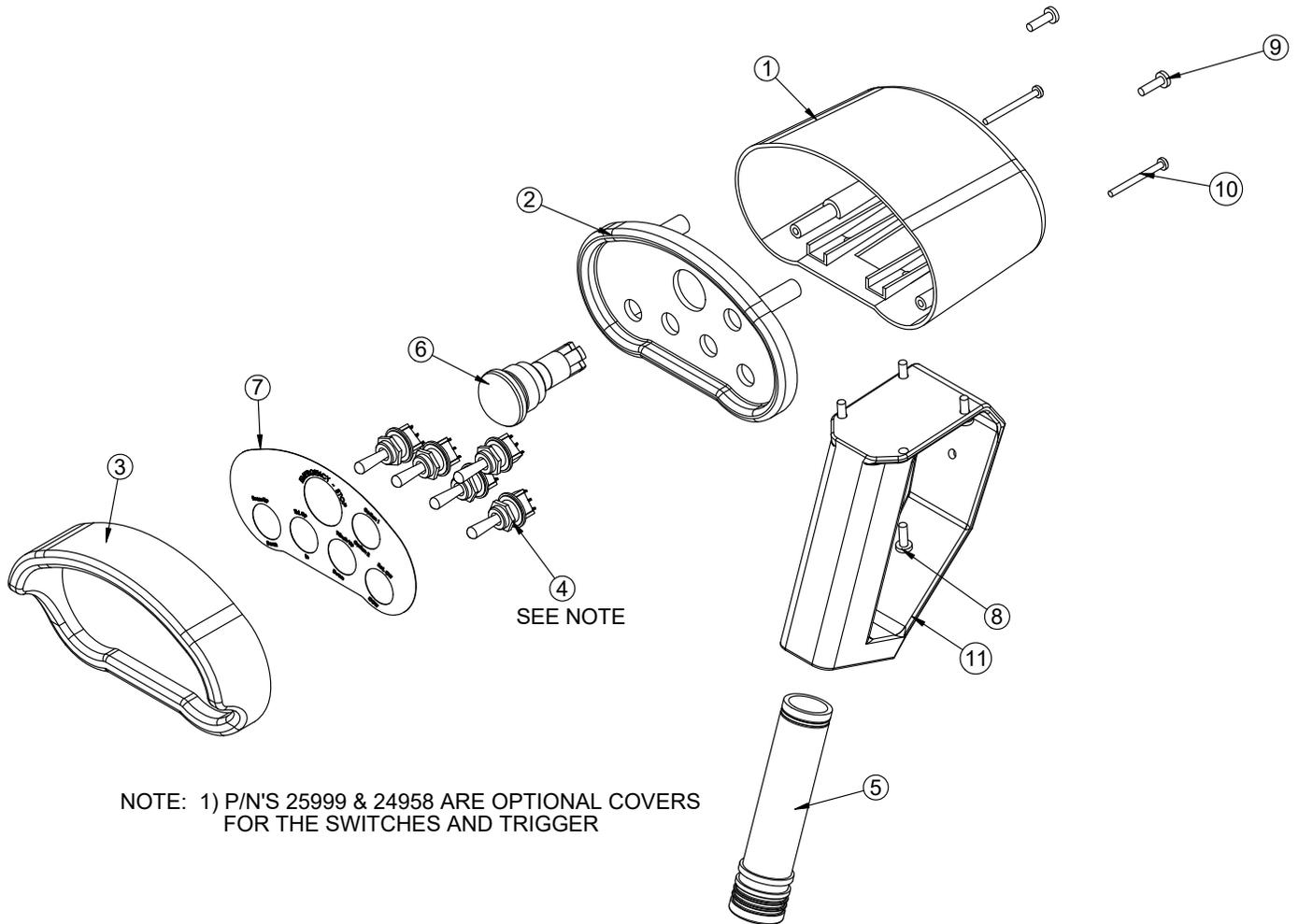


# Cable & Hook Assembly - PN 50492 Parts List

PN 50492			
ITEM	PART	DESCRIPTION	QTY
1	50493	PLATE SNATCH BLOCK EC4000 PC RED ET-5391	2
2	50387	SHEAVE EC4000 6.75 DIA .31R/1.00THK	1
3	C6018	HOOK CRANE-3 TON	1
4	9610	WIRE ROPE 0.31 6X19 IWRC-XIP 90FT	1
5	42524CR	PIN 0.75X2.50 COTTER ZC	1
6	16607	SPACER 3315 SNATCH BLOCK BLACK	1
7	27810	SPACER 3315 SNATCH BLOCK UHMW	2
8	352	WASHER 0.50 USS FLAT ZINC	6
9	5468	NUT 0.50-13 HHGR8 NYLOC	3
10	47868	CAP SCR 0.50-13X2.75 HHGR8	3
11	9263	PIN .38X3.00 QUICK RELEASE	1
12	375	MACHY WASHER 0.75ID 14GA	2
13	37824	COTTER PIN .125X1.00	2
REV. A 202510			

**NOTES:**  
**HARDWARE KIT: 92512**

# Radio Transmitter Assembly - PN 67894



## 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
REV. INITIAL RELEASE			







Subject to Change without Notification.  
© 2025 Stellar Industries, Inc.