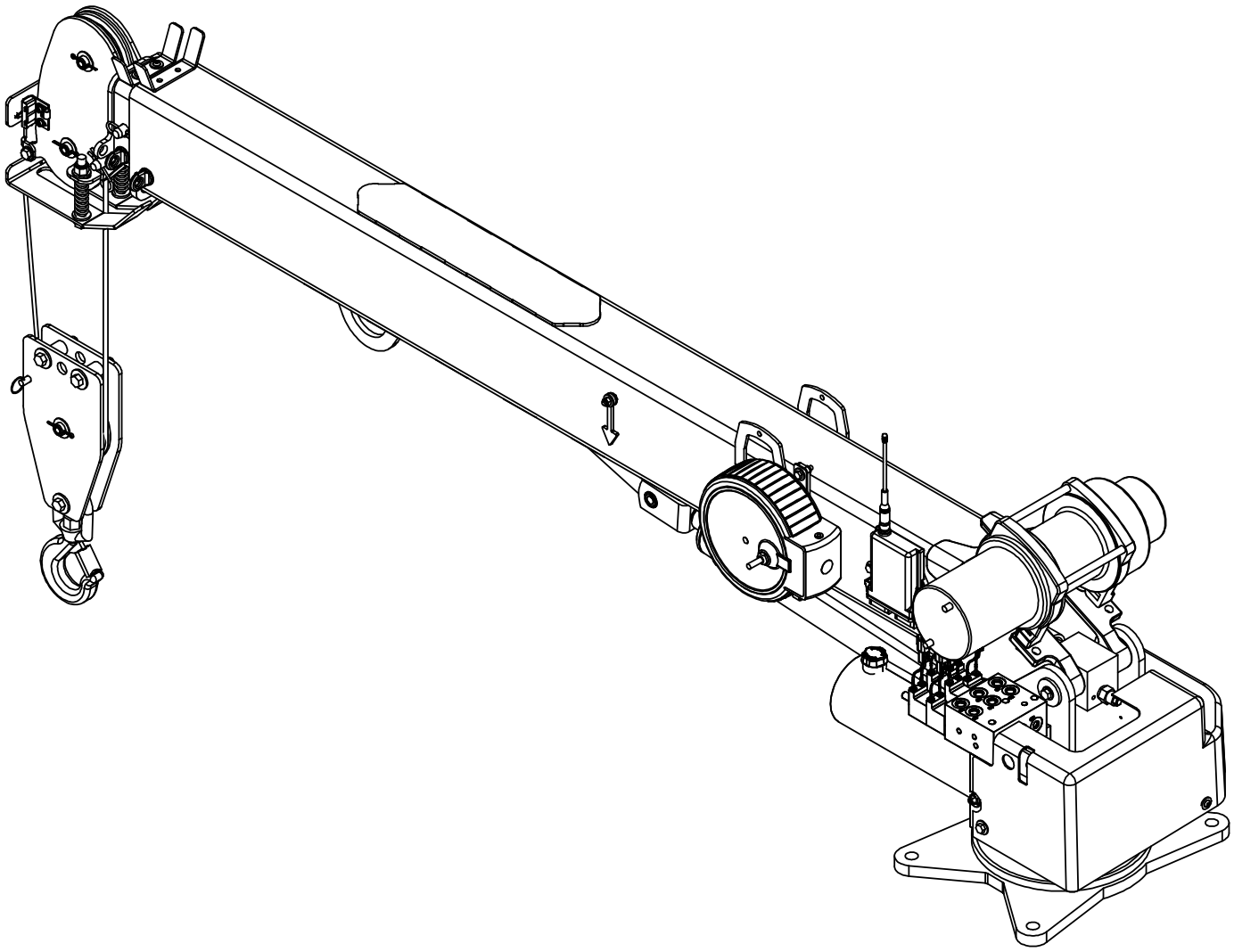
STELLAR®

MODEL EC3200
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

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www.stellarindustries.com

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Rev1.1
PN 144918

EC3200 Manual Revisions

⚠ WARNING

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

www.p65warnings.ca.gov

NOTICE

Cold Weather Performance

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

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

Serial Tag Location

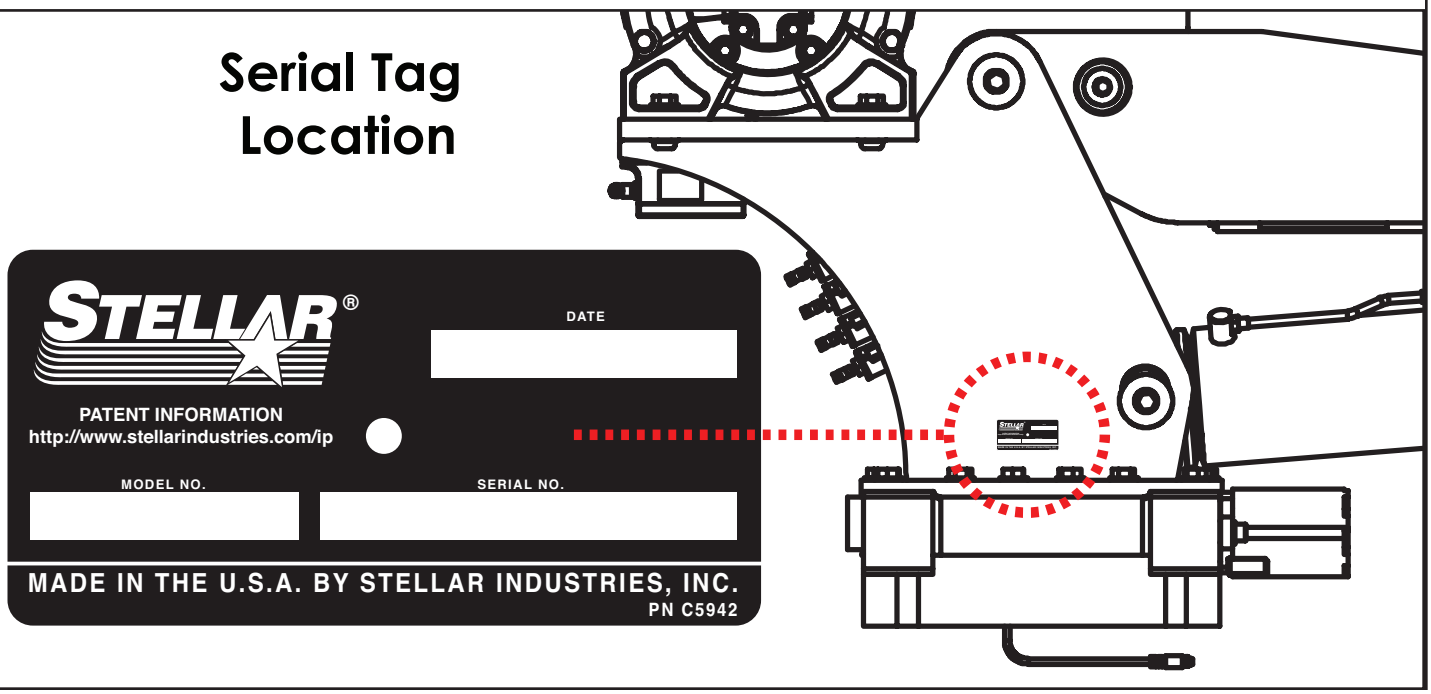


Table of Contents

Introduction ii
Chapter 1 - Specifications 1
Specifications 2
EC3200 Dimensions 3
Capacity Chart - Decal PN 42817 4
Chapter 2 - Installation 5
General Installation 6
Installer Notice 6
Torque Data Chart 7
Torquing Information & Warnings 7
Installation Overview 8
EC3200 Mounting Detail 9
Flatbed Body Reinforcement 9
EC3200 Installation Drawing 10
Hydraulic Kit - PN 144917 12
Hydraulic Kit - PN 144917 Parts List 13
Valve Bank Drawing 14
Control Kit - PN 42804 16
Control Kit - PN 42804 Parts List 17
EC3200 Wiring Diagram (Two Battery) 18
EC3200 Wiring Diagram (One Battery) 19
Electrical Circuit Grounding 20
Fittings 21
Flat Face O-Ring Seal - FFORX 21
SAE 37º JIC 21
Fittings - Continued 22
O-Ring Boss 22
Face Seal Female Swivel Fittings 22
Stability Procedure 23
Decal Kit Placement - PN 144919 24
Chapter 3 - Drawing Assembly 25
Base Assembly - PN 42525 26
Base Assembly - PN 42525 Parts List 27
Base Assembly (Narrow Version) - PN 44613 28
Base Assembly (Narrow Version) - PN 44613 Parts List 29
Mast Assembly - PN 42787 30
Mast Assembly - PN 42787 Parts List 31
Power Unit Assembly - PN 42513 32
Power Unit Assembly - PN 42513 Parts List 33
Winch DC 1600 W/65 FT Rope - PN 106133 34
Winch DC 1600 W/65 FT Rope - PN 106133 Parts List 35
Main Boom Assembly - PN 142956 36
Main Boom Assembly - PN142956 Parts List 37
Extension Boom Assembly - PN 143201 38
Extension Boom Assembly - PN 143201 Parts List 39
Snatch Block Assembly - PN 143584 40
Snatch Block Assembly - PN 143584 Parts List 41
Gear Bearing Assembly - PN 41640 42
Radio Transmitter Assembly - PN 67894 43

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.

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

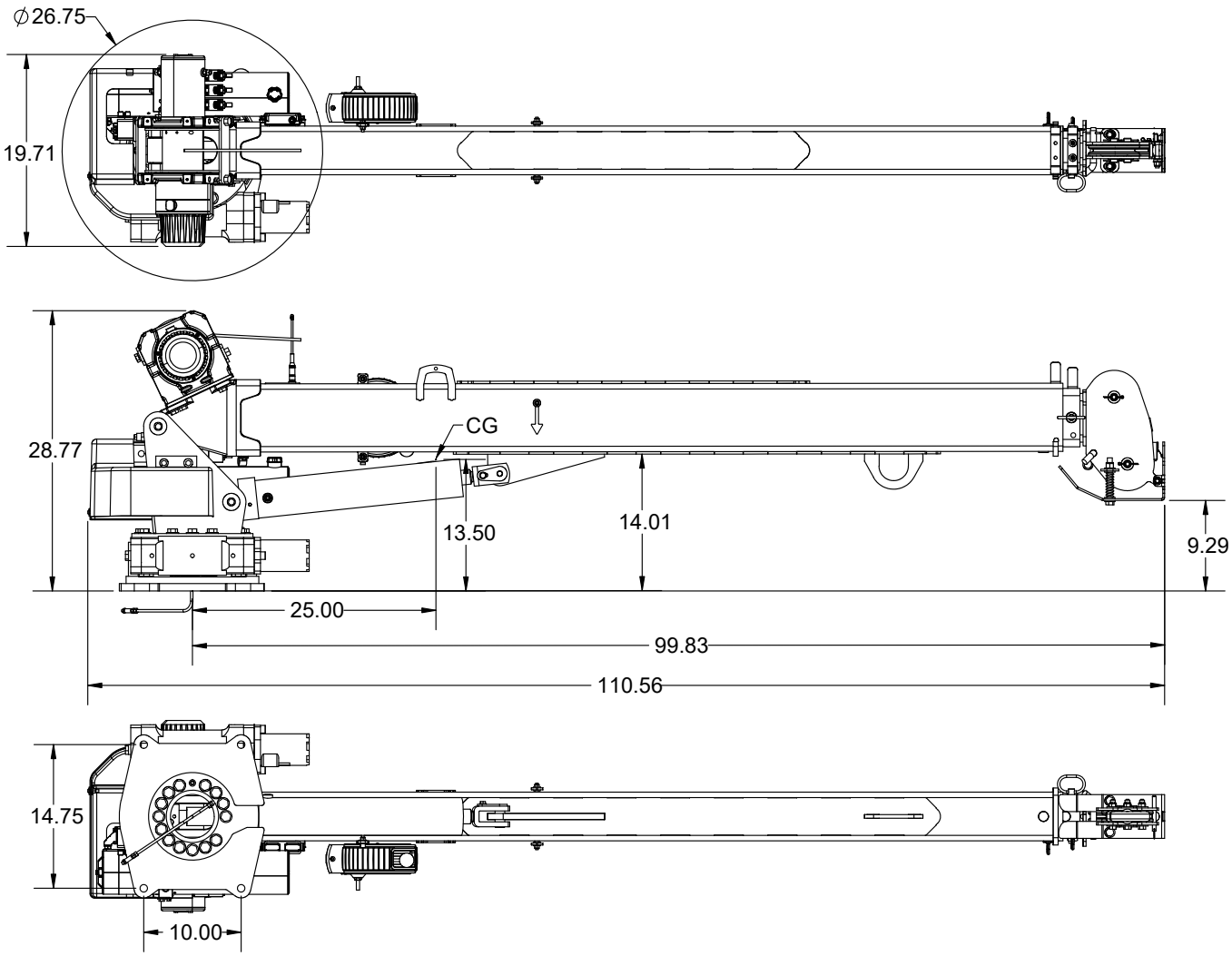
Chapter Contents

Specifications 2
EC3200 Dimensions.....3
Capacity Chart - Decal PN 42817 4

Specifications

EC3200V2	
CRANE RATING	11,500 ft-lb *(1.59 tm)*
STANDARD BOOM LENGTH	7' 1"*(2.15 m)* FROM CL OF CRANE
BOOM EXTENSION:	1ST EXTENSION: HYDRAULIC 48" *(121.9 cm)*
	2ND EXTENSION: 48" MANUAL *(121.9 cm)*
MAXIMUM HORIZONTAL REACH:	15' *1"(4.59 m)* FROM CL OF CRANE
MAXIMUM VERTICAL LIFT (FROM CRANE BASE)	16' 2" *(4.93 m)*
STOWED HEIGHT	24" *(61.0 cm)*
REQUIRED MOUNTING SPACE	18" X 15" *(45.7 x 38.1 cm)*
APPROXIMATE CRANE WEIGHT	650 lb *(295 kg)*
CONTROLS	RADIO CONTROL STANDARD FOR ALL FUNC.
BOOM ELEVATION	-5 TO +80 DEGREES
WINCH SPECIFICATIONS	
ROPE LENGTH	65 ft *(19.8 m)*
ROPE DIAMETER	7/32" *(.56 cm)*
LINE PULL SPEED:	15 FT / MIN *(4.6 m/min)*
MAX. SINGLE PART LINE:	1600 lb *(725 kg)*
MAX. DOUBLE PART LINE	3200 lb *(1450 kg)*
ROTATION (WORM GEAR):	410 DEGREE POWER
LIFTING CAPACITY:	1625 lb @ 7' *(737 kg @ 2.1 m)*
	905 lb @ 11' *(410 kg @ 3.35 m)*
	640 lb @ 15' *(290 kg @ 4.6 m)*
POWER SUPPLY REQUIRED:	12 VOLT POWER UNIT
	(2.0 GPM @ 2600 PSI)
	(7.57 Lpm @ 179 Bar)
SUBJECT TO CHANGE WITHOUT NOTIFICATION	

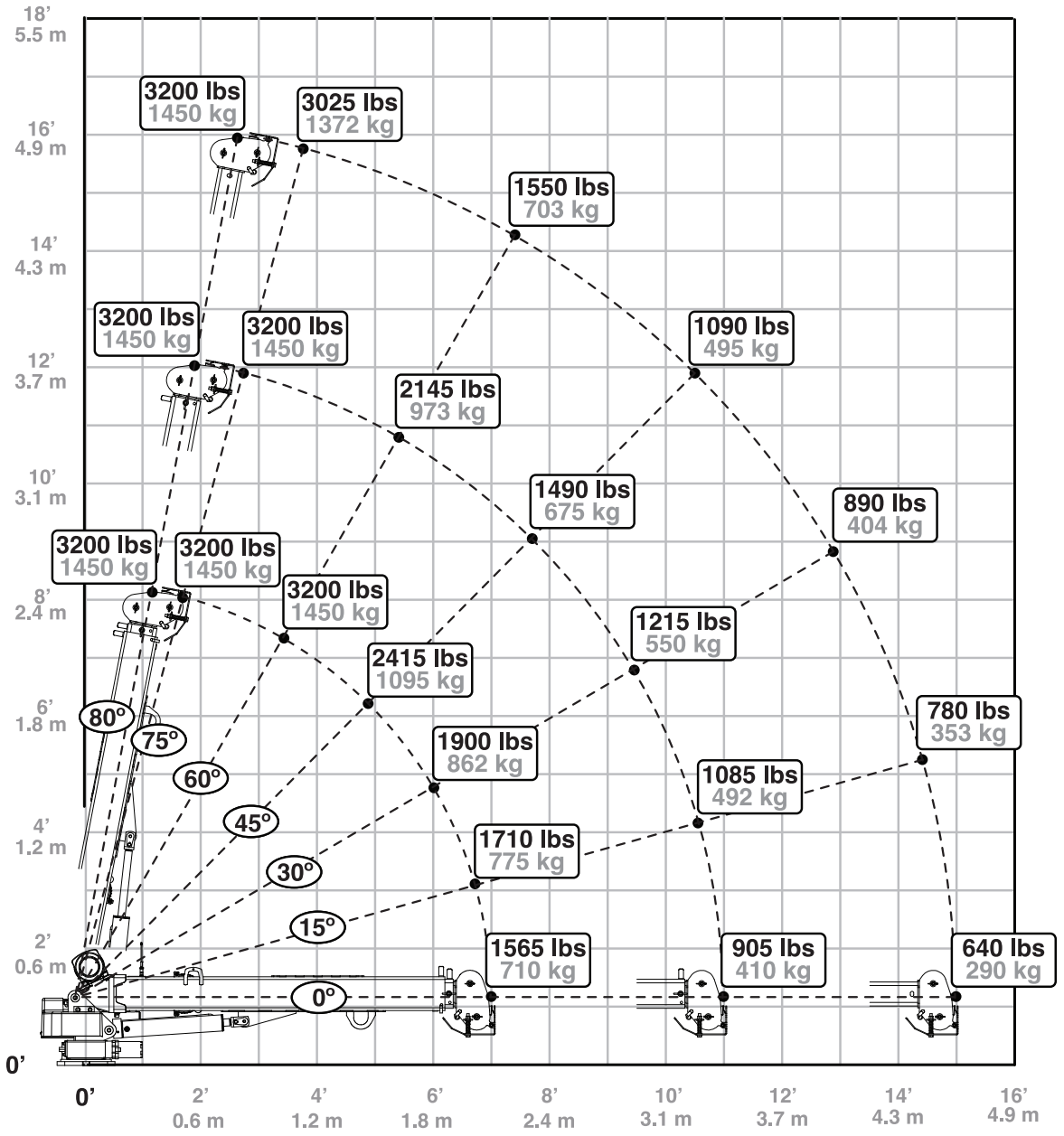
EC3200 Dimensions



Capacity Chart - Decal PN 42817

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

Maximum 1 - part line capacity is 1600lbs (725kg). For greater loads, use 2 - part line.



STELLAR® EC3200

PN 42817

Chapter 2 - Installation

Chapter Contents

General Installation....6
Installer Notice....6
Torque Data Chart....7
Torquing Information & Warnings....7
Installation Overview....8
EC3200 Mounting Detail....9
Flatbed Body Reinforcement....9
EC3200 Installation Drawing....10
Hydraulic Kit - PN 144917....12
Hydraulic Kit - PN 144917 Parts List....13
Valve Bank Drawing....14
Control Kit - PN 42804....16
Control Kit - PN 42804 Parts List....17
EC3200 Wiring Diagram (Two Battery)....18
EC3200 Wiring Diagram (One Battery)....19
Electrical Circuit Grounding....20
Fittings....21
Flat Face O-Ring Seal - FFORX....21
SAE 37º JIC....21
Fittings - Continued....22
O-Ring Boss....22
Face Seal Female Swivel Fittings....22
Stability Procedure....23
Decal Kit Placement - PN 144919....24

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.

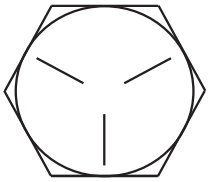
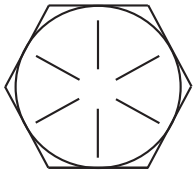
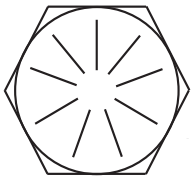
Installer Notice

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

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.

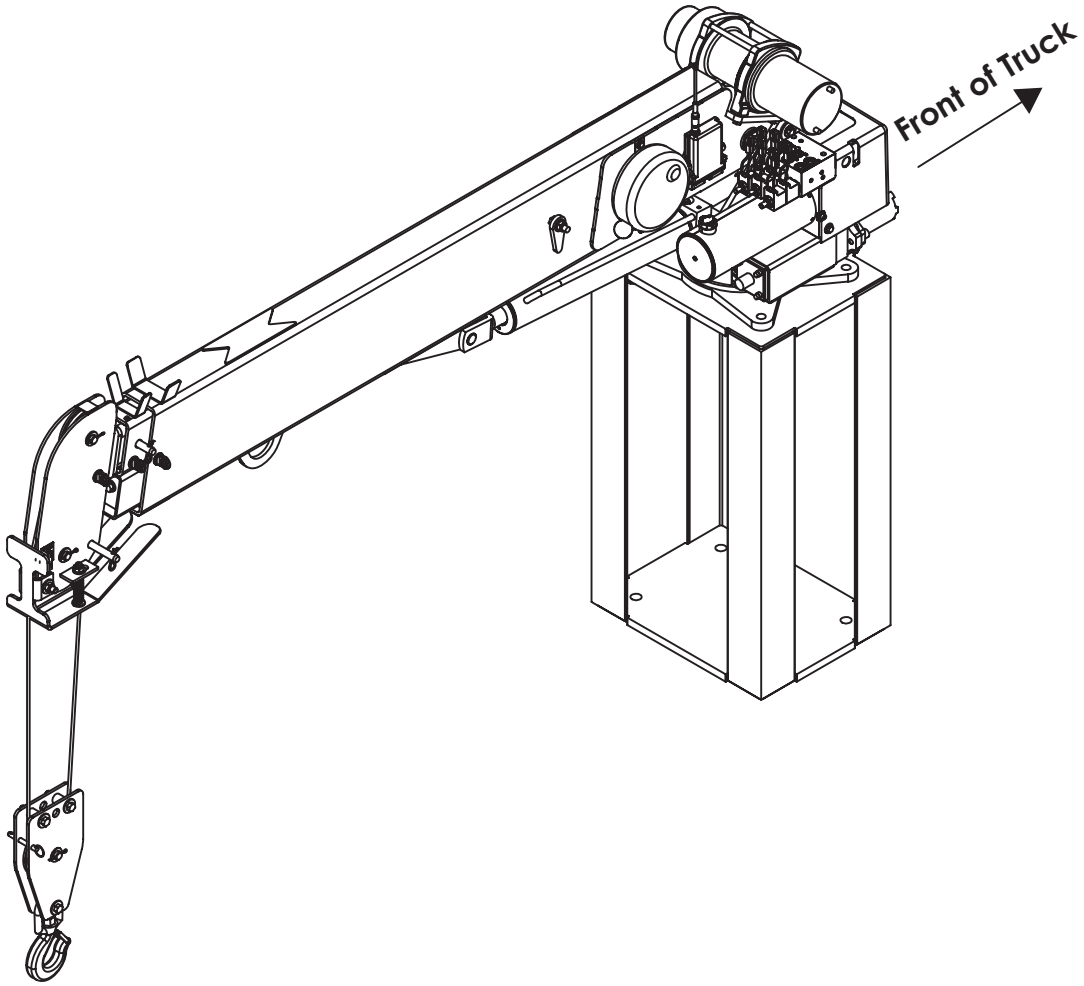
NOTICE

**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.*

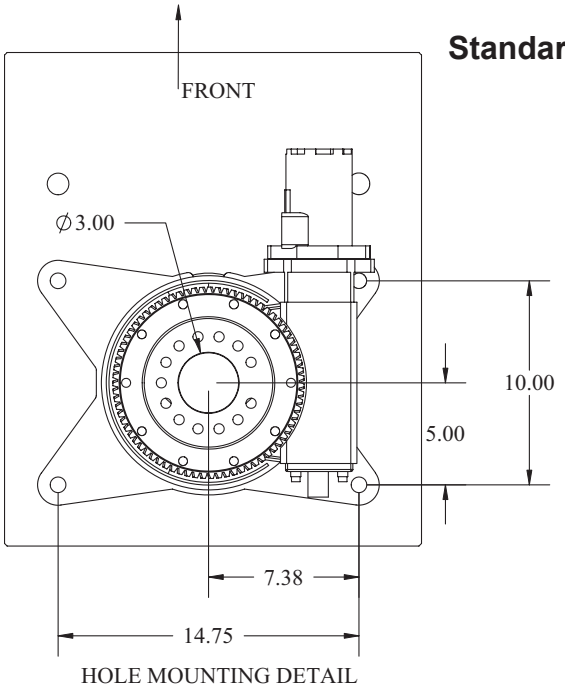
Installation Overview

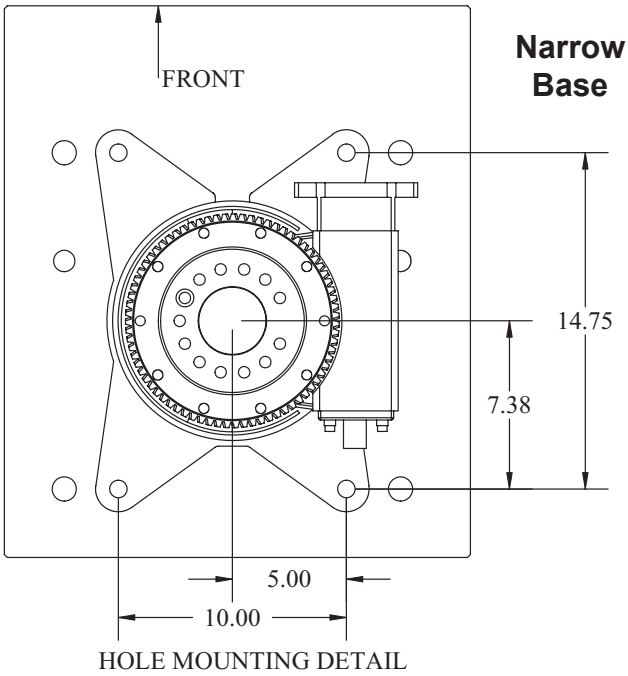
1. Determine that the mounting location for the EC3200 crane is at least 18” x 15” (45.7 x 38.1 cm).
2. Use the detail on the following page to drill .938” diameter holes into the mounting plate. Run tap on the threads of the base to be sure they are clean.
3. Use a crane or lifting device capable of lifting the weight of the Stellar crane. The Stellar EC3200V2 weighs approximately 650 lb (295 kg). **Note: cranes are shipped with rotation positioned at 180 degrees from normal stowed travel position.** 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 main boom of the Stellar EC3200V2.
5. Use four (4) ⅞” x 1.75” Grade 8 bolts and four (4) ⅞” 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 EC3200 just above the crane compartment and start the bolts. Have someone assist in leveling the crane.
9. Secure the crane using the mounting hardware provided. **Note: longer or shorter bolts may be required – recommended thread engagement into crane base is 0.75” – use grade 8, zinc plated bolts only.**
10. Torque the bolts to 455 ft-lbs.
11. Remove supporting crane.
12. Hook-up hydraulics and electrical using the schematics provided at the end of this chapter.

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



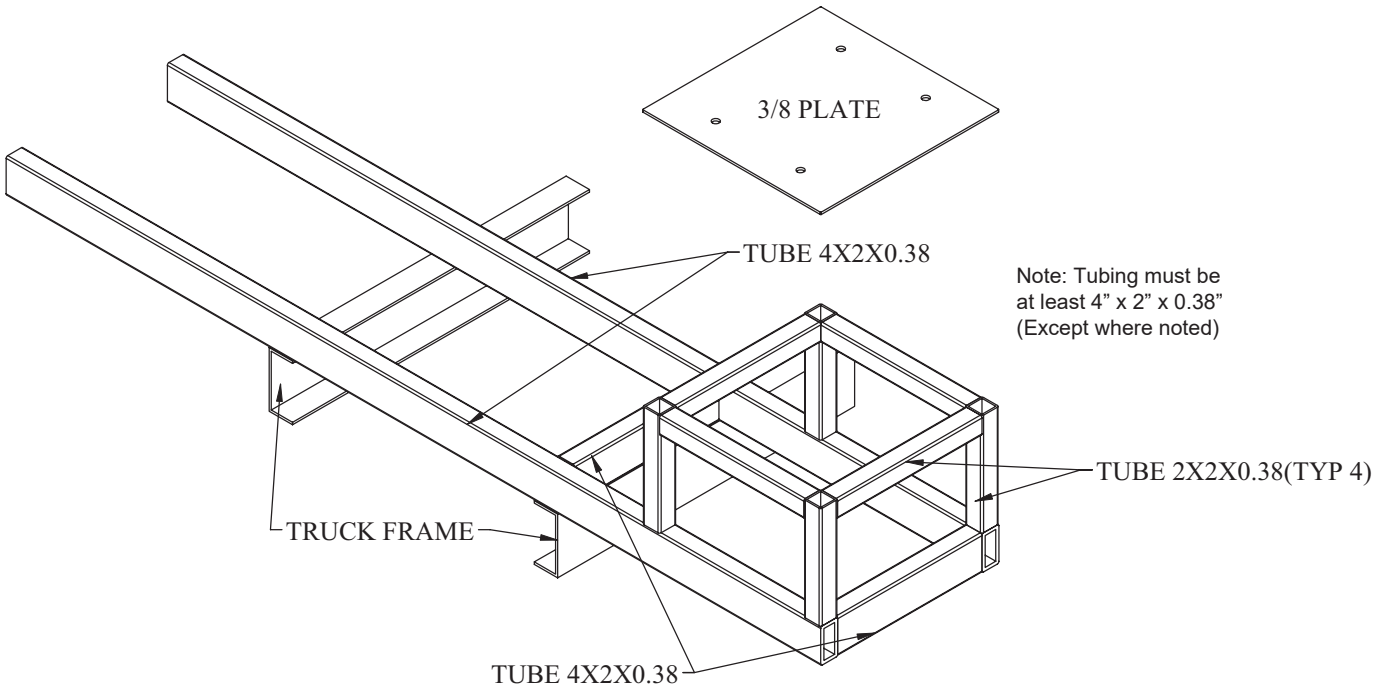
EC3200 Mounting Detail



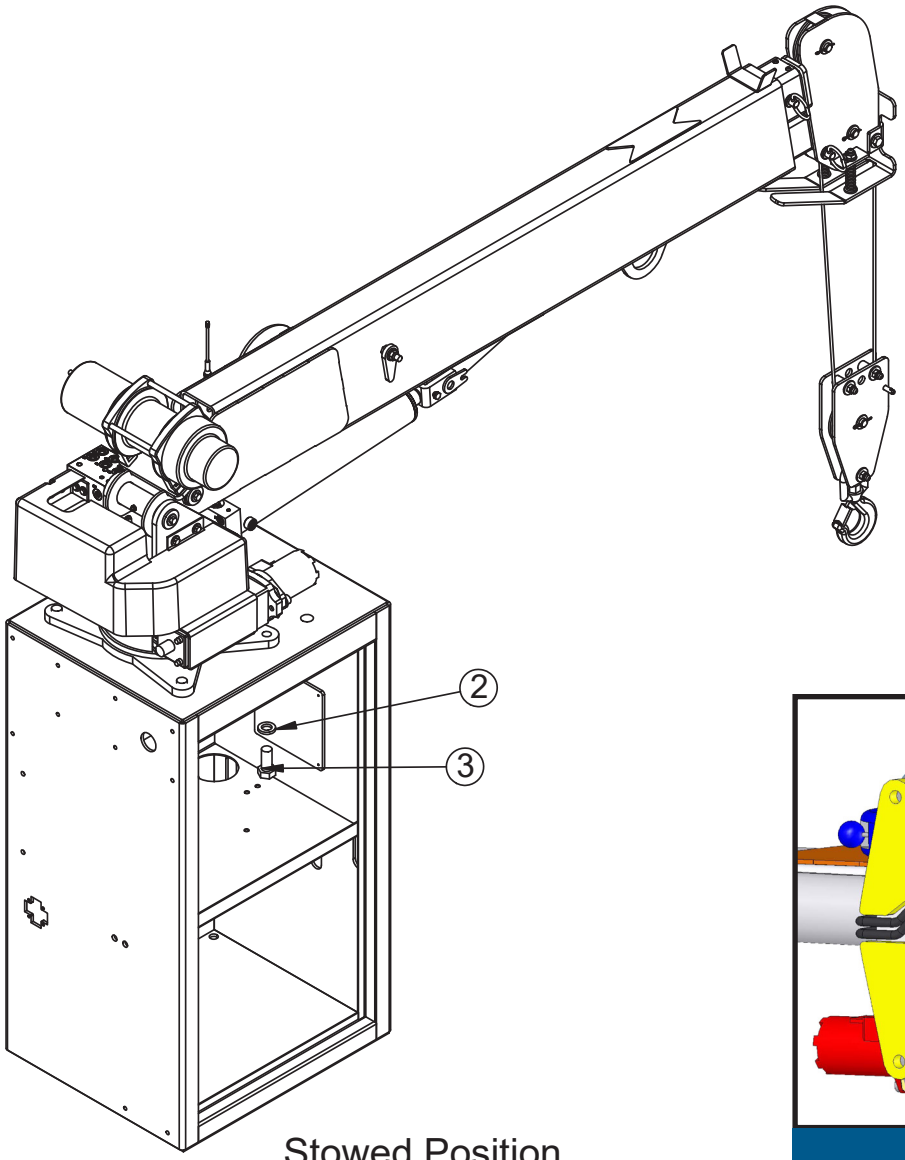


Flatbed Body Reinforcement

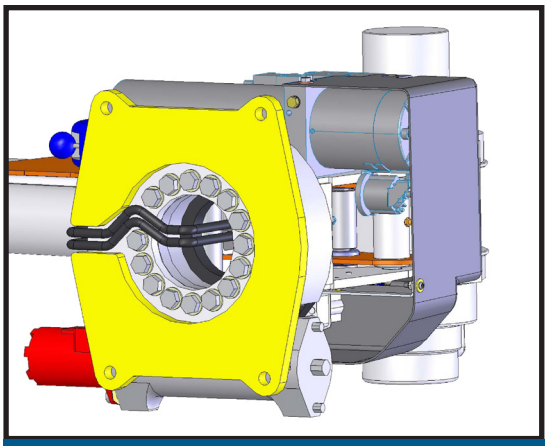
If it has been determined that the destination body won't support the crane with a fully rated load, the body must be reinforced. Use 1/4" fillet welds and an AWS qualified welder to proceed as shown in this drawing:



EC3200 Installation Drawing



Stowed Position



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

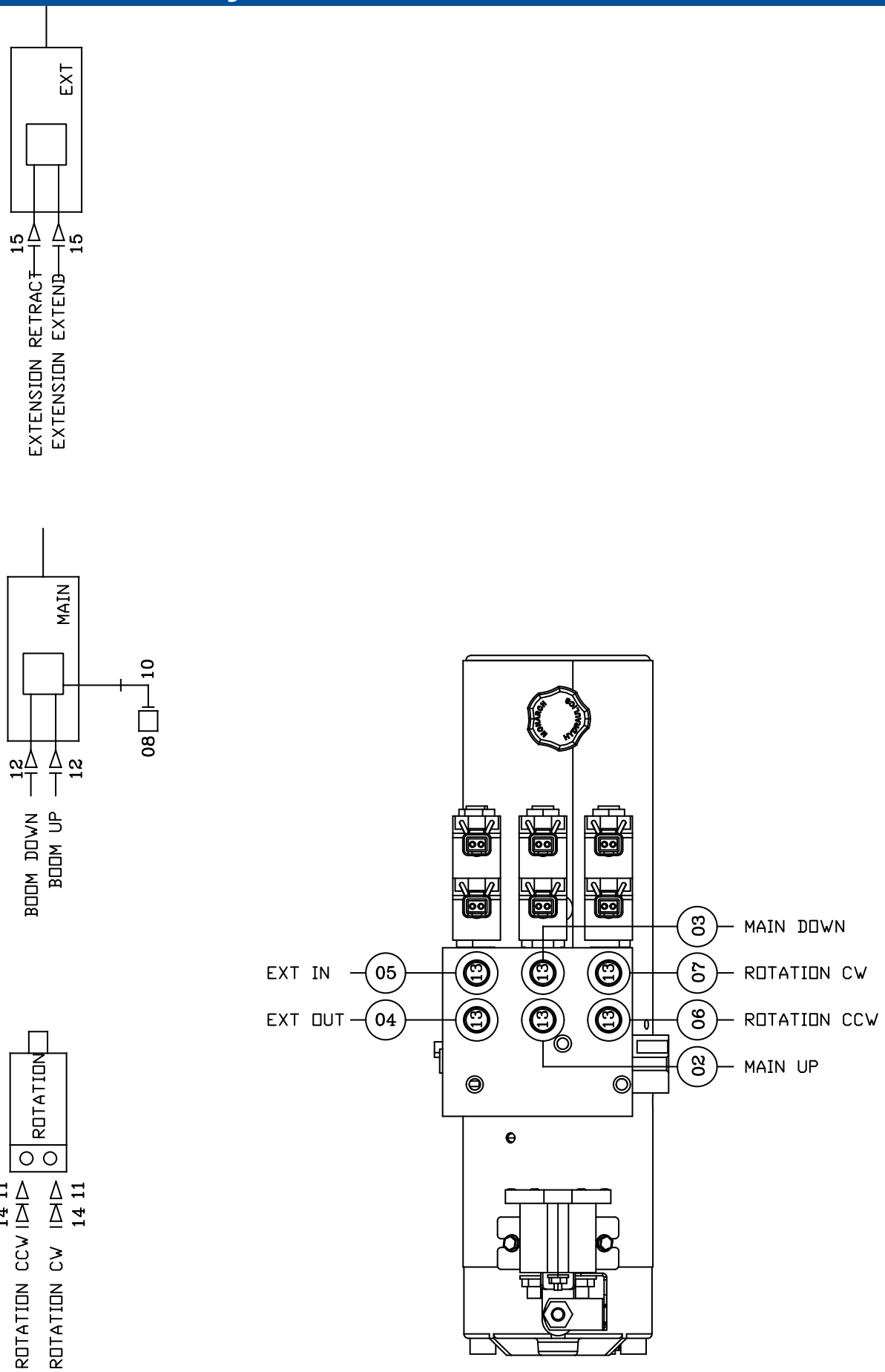
ITEM	PART	DESCRIPTION	QTY
02	8648	WASHER 0.88 SAE FLAT YELLOW GR8	4
03	42985	CAP SCR 0.88-9 X 1.75 HHGR8	4

NOTE:

STABILITY DECAL, PN 16881, IS PART OF THIS KIT.

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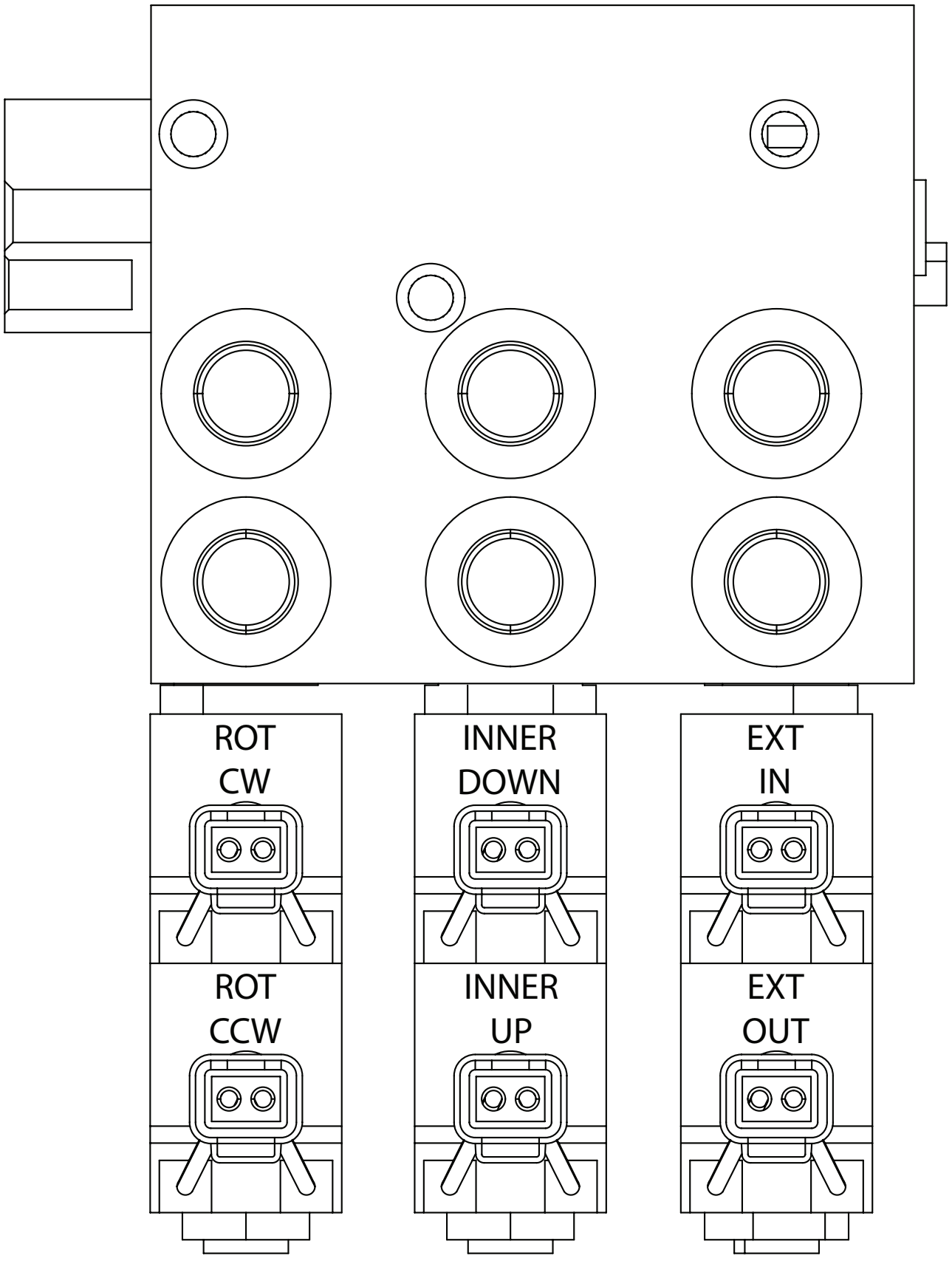
Hydraulic Kit - PN 144917



Hydraulic Kit - PN 144917 Parts List

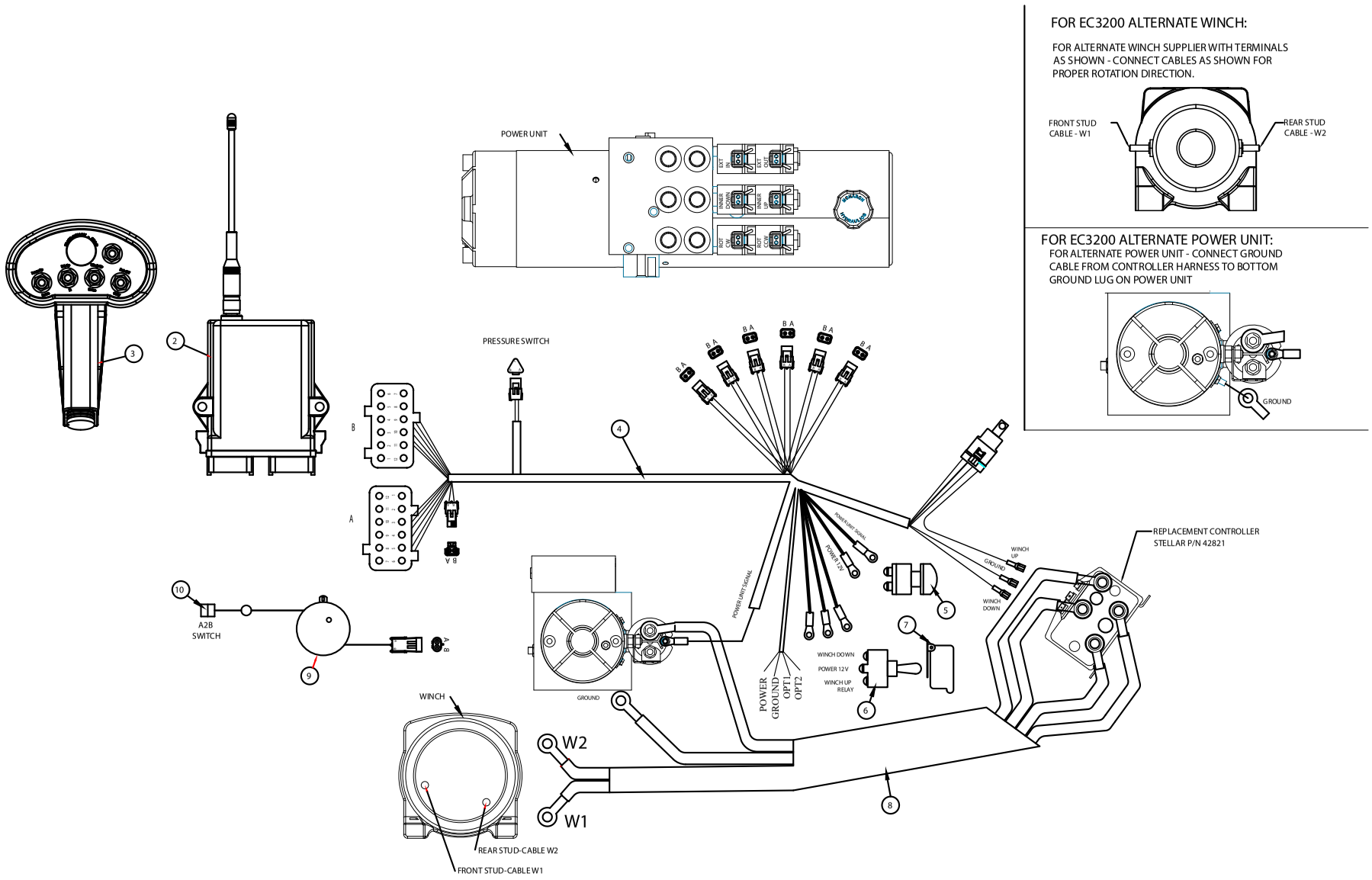
PN 144917			
ITEM	**PART**	**DESCRIPTION**	**QTY**
01	42800	HOSE KIT 3315 CRANE (INCL:2-7)	1
02	42980	HOSE-HYD .25 X 22	1REF
03	42983	HOSE-HYD .25 X 23	1REF
04	42981	HOSE-HYD .25 X 19	1REF
05	43847	HOSE-HYD .25 X 20	1REF
06	42982	HOSE-HYD .25 X 42	1REF
07	42984	HOSE-HYD .25X 43	1REF
08	49315	SWITCH PRES OVERLD CD-11C-2900R/WD	1
09	144923	HYD FTG KIT EC3200 V2 (INCL 10-15)	1
10	3861	FTG 6-6 MAORB-FORB 90	1REF
11	C1111	FTG 10-6 MORB-FORB STRAIGHT REDUCER	2REF
12	D1291	FTG 4-4 MFS-MORB STRAIGHT	2REF
13	C4922	FTG 4-6 MFS-MORB STRAIGHT	6REF
14	108534	FTG 4-6 MFS-MORB STRAIGHT .046 ORIFICE BLK	2REF
15	C1198	FTG 4-4 MFS-MAORB 90	2REF
16	4042	HOSE PROTECTOR 0,38 AS-B-15	2FT
REV. INITIAL RELEASE			

Valve Bank Drawing



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Control Kit - PN 42804



Control Kit - PN 42804 Parts List

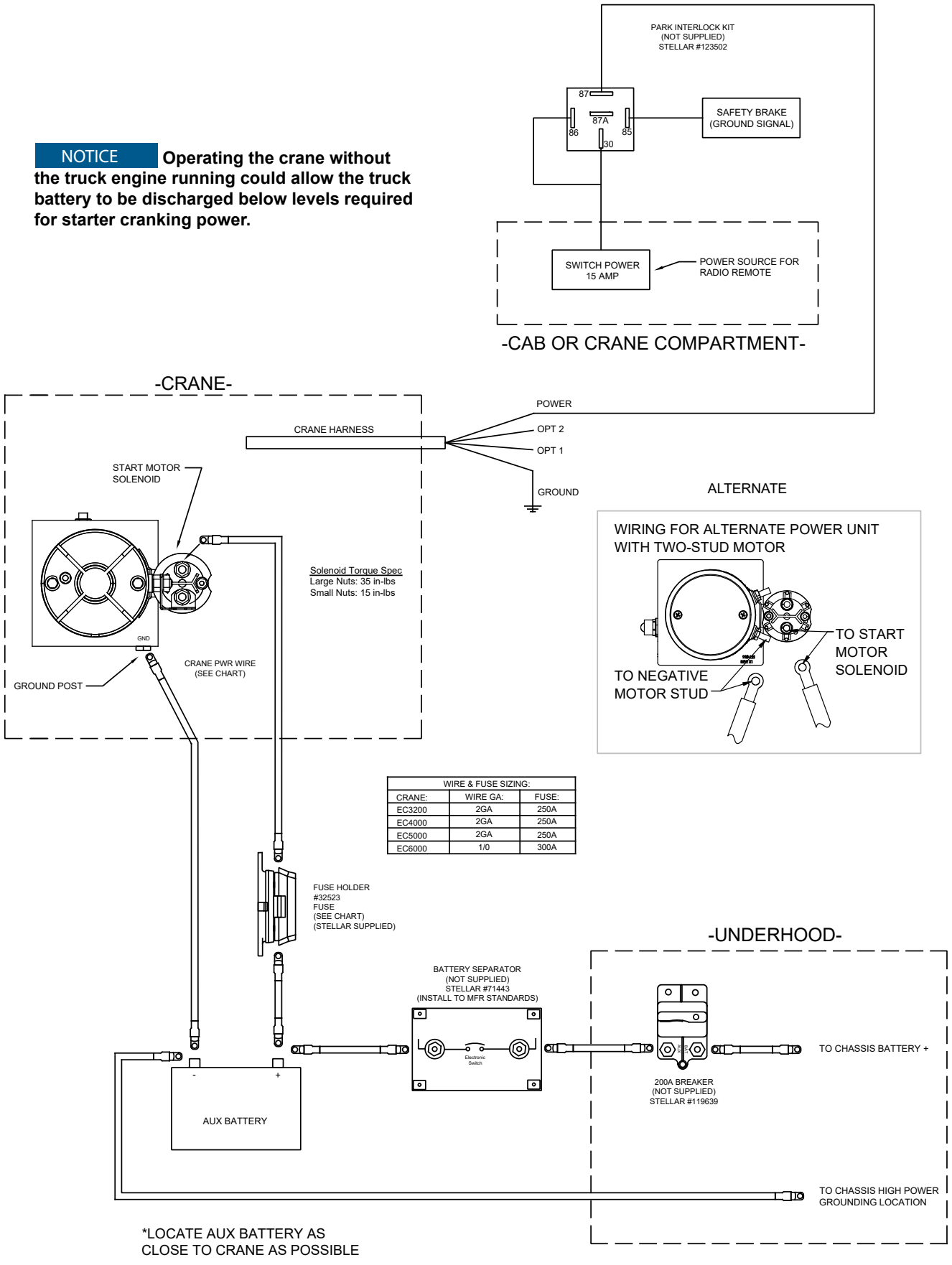
PN 42804			
ITEM	**PART**	**DESCRIPTION**	**QTY**
01	39784	RADIO CNTRL ASM 5 FCTN ON/OFF	1
02	—	RECEIVER-RADIO (PART OF 1)	REF
03	67894	TRANSMITTER-RADIO (PART OF 1)	1
04	42805	WIRE HARNESS EC3200	1
05	17771	SWITCH PUSH BUTTON 9216-03	1
06	47410	SWITCH MOM SPST 20A	1
07	47409	COVER SWITCH EC3200	1
08	47092	WIRE HARNESS EC3200 CONTROLLER	REF
09	72602	CORD REEL ASM 15/20/21 FT CRANE	REF
10	35105	SWITCH LIMIT (NO) ROLLER LVR LT BRKT	1
REV. C			

NOTES:

P/N 47092 INCLUDES HARNESS & WINCH CONTROLLER

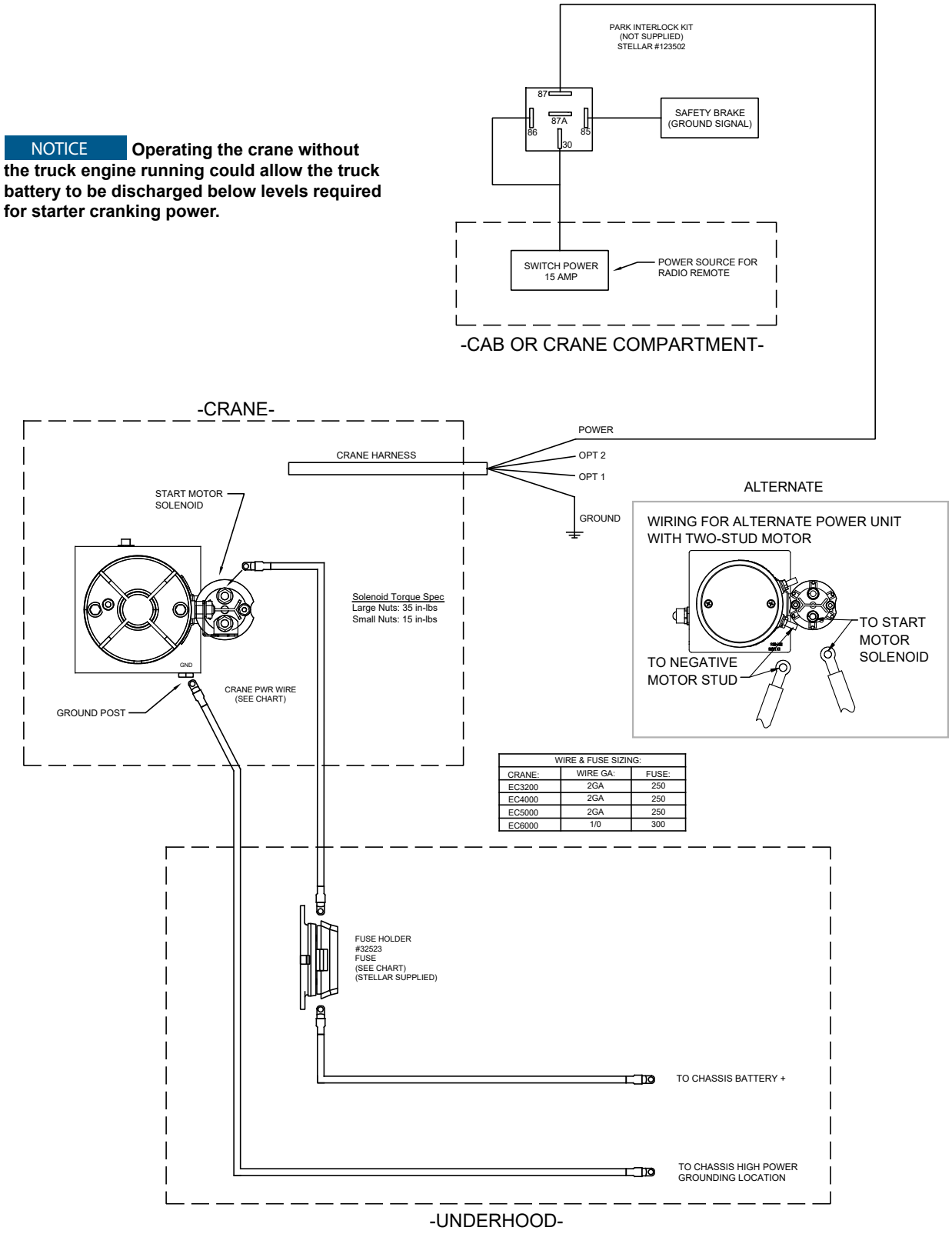
EC3200 Wiring Diagram (Two Battery)

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



EC3200 Wiring Diagram (One Battery)

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



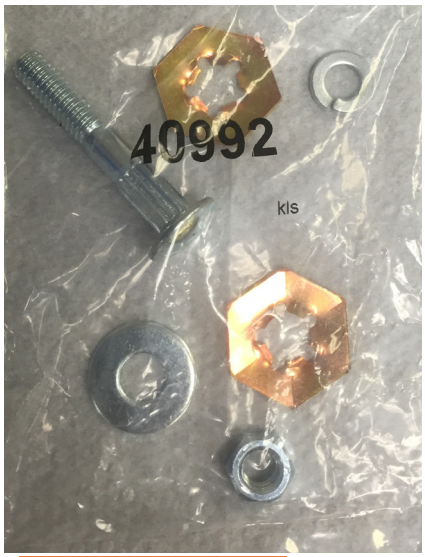
WIRE & FUSE SIZING:		
CRANE:	WIRE GA:	FUSE:
EC3200	2GA	250
EC4000	2GA	250
EC5000	2GA	250
EC6000	1/0	300

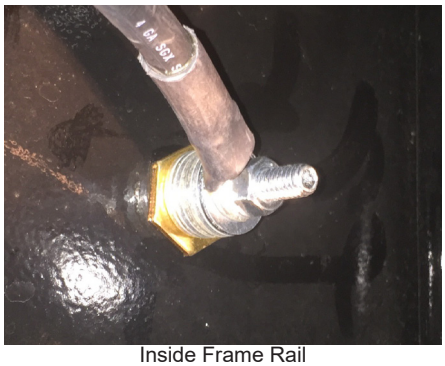
Electrical Circuit Grounding

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.

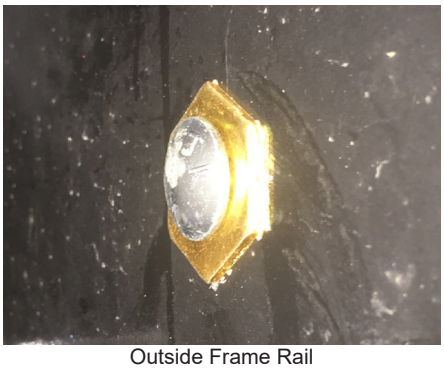
Chassis manufacturers usually will have a ground strap which ties into the truck frame from the battery, but it is always a good idea to check each individual model to verify where the ground is located. Never use the mechanic body as a ground source. Make sure the electrical grounds are routed to either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

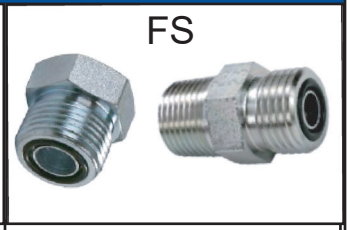
- Drill the hole to the frame rail in accordance with the chassis body builder's guide.
- **Hole size: 21/64"**
- The hole location should allow for the shortest length of ground wire while keeping enough slack for flexibility.
- Be sure to grind the frame rail around the hole to ensure a proper ground 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





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 37º JIC

HOSE FITTING & FEMALE SWIVEL FITTINGS





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

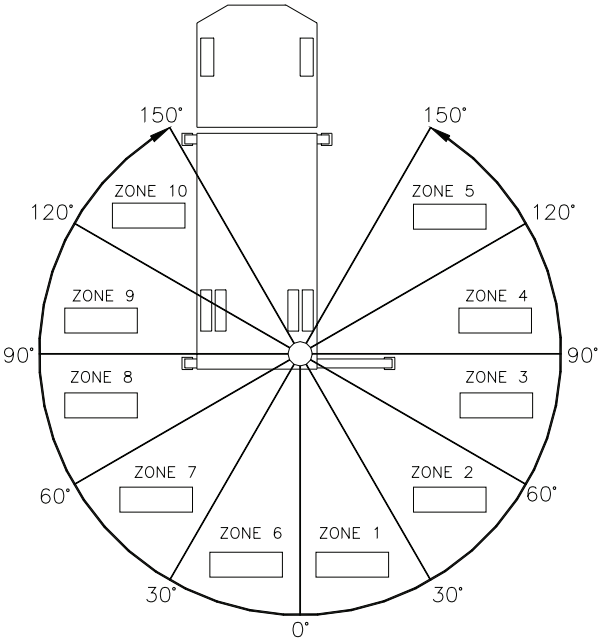
Definition of Stability for the Stellar Telescopic Crane Products:
A truck is stable until the load cannot be lifted off the ground with the winch, without tipping over the truck. Every Stellar crane installed must be tested for stability to determine the actual load capacity of the final truck package. 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.

EC3200 Stability Data

Max Horizontal Reach: 180" (From the center of rotation to boom tip)
Stability Test Weight: 755 lbs.

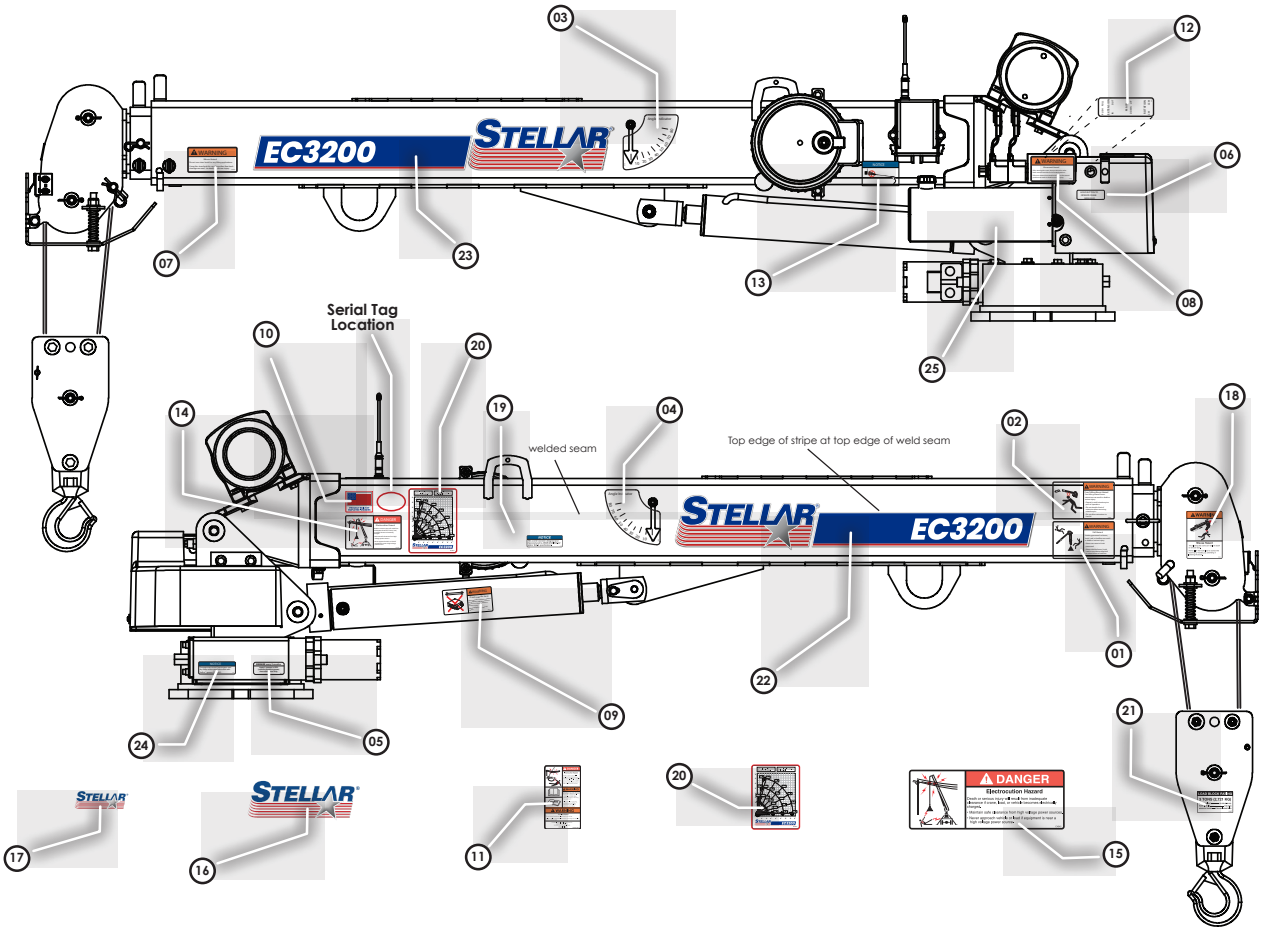
Test Procedure
1. Rotate the crane into Zone 1 position.
2. With the crane fully retracted and the boom horizontal, winch the test weight off the ground. Note: Keep weight within six inches of the ground at all times.
3. Extend the boom outward until full extension has been reached or until the truck 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 Kit Placement - PN 144919



EC3200 DECAL KIT - PN 144919

EC GENERAL DECAL PACKAGE - 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	42820	DECAL VB CONTROL EC SERIES	On top of valve bank	1
13	73929	DECAL PRESSURE WASH	Main Boom	1
14	C1179	DECAL DANGER ELECTROCUTION SMALL	Main Boom	1
15	C4545	DECAL DANGER ELECTROCUTION LARGE	Four corners of the body/chassis	4
16	C5910	DECAL STELLAR 4x9.5	Suggested: Rear body/tailgate	1
17	C5911	DECAL STELLAR 2x4.5	Suggested: Side corners of body	3

EC3200 DECAL PACKAGE - PN 144920

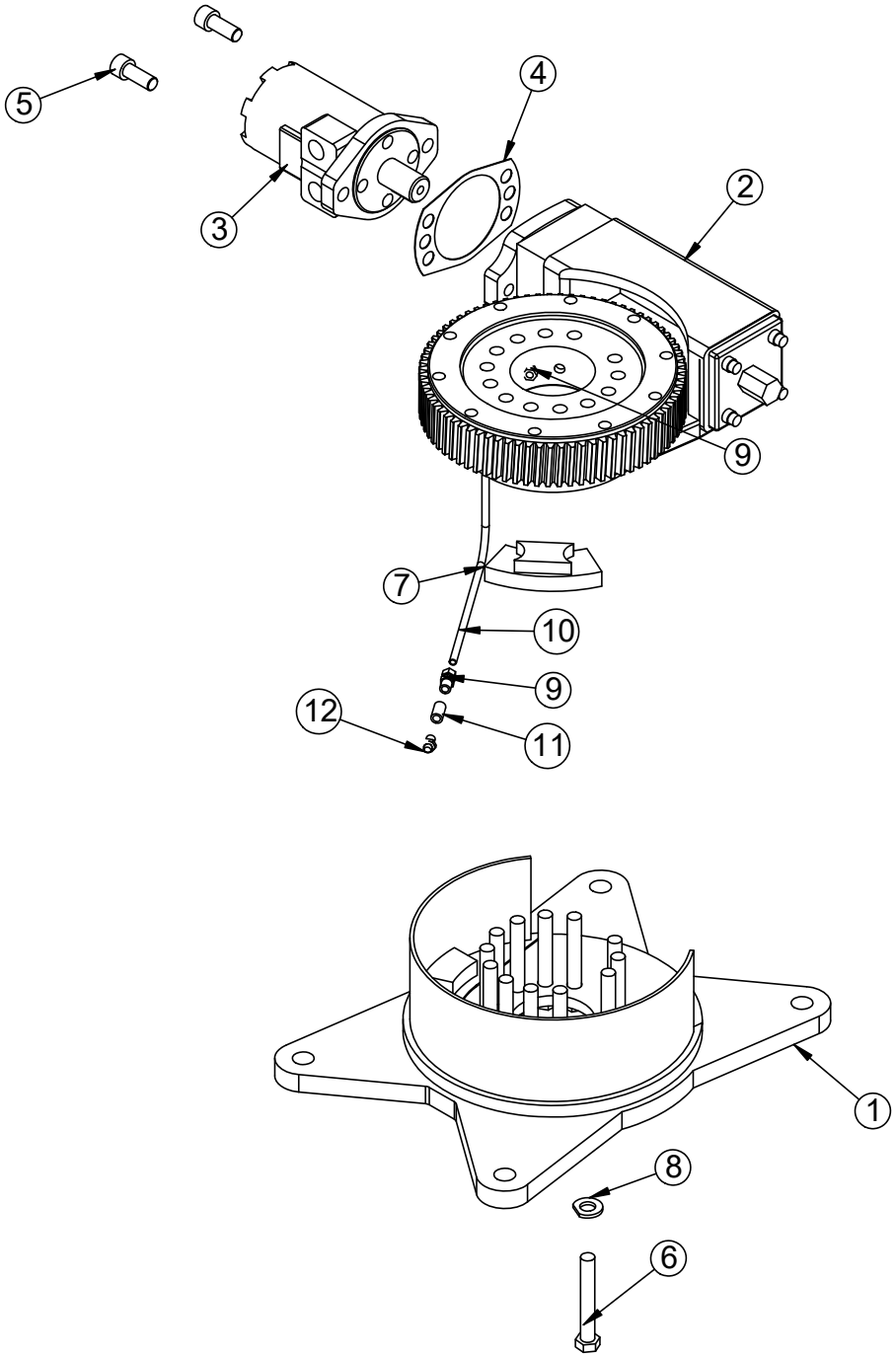
ITEM	PN	DESCRIPTION	LOCATION	QTY
18	12300	DECAL WARNING TWO BLOCKING	Crane Horse Head	1
19	15172	DECAL ASME/ANSI B30.22/B30.5	Main Boom	1
20	42817	DECAL CAPACITY EC3200	Main Boom and Crane Compartment	2
21	116437	DECAL SNATCH BLOCK 3 TON	Snatch Block	1
22	142959	DECAL IDENTIFICATION EC3200 CS	Main Boom	1
23	142960	DECAL IDENTIFICATION EC3200 SS	Main Boom	1
24	9188	DECAL ROTATE/GREASE	Crane Base	1

Chapter 3 - Drawing Assembly

Chapter Contents

Base Assembly - PN 42525 26
Base Assembly - PN 42525 Parts List 27
Base Assembly (Narrow Version) - PN 44613 28
Base Assembly (Narrow Version) - PN 44613 Parts List 29
Mast Assembly - PN 42787 30
Mast Assembly - PN 42787 Parts List 31
Power Unit Assembly - PN 42513 32
Power Unit Assembly - PN 42513 Parts List 33
Winch DC 1600 W/65 FT Rope - PN 106133 34
Winch DC 1600 W/65 FT Rope - PN 106133 Parts List 35
Main Boom Assembly - PN 142956 36
Main Boom Assembly - PN142956 Parts List 37
Extension Boom Assembly - PN 143201 38
Extension Boom Assembly - PN 143201 Parts List 39
Snatch Block Assembly - PN 143584 40
Snatch Block Assembly - PN 143584 Parts List 41
Gear Bearing Assembly - PN 41640 42
Radio Transmitter Assembly - PN 67894 43

Base Assembly - PN 42525



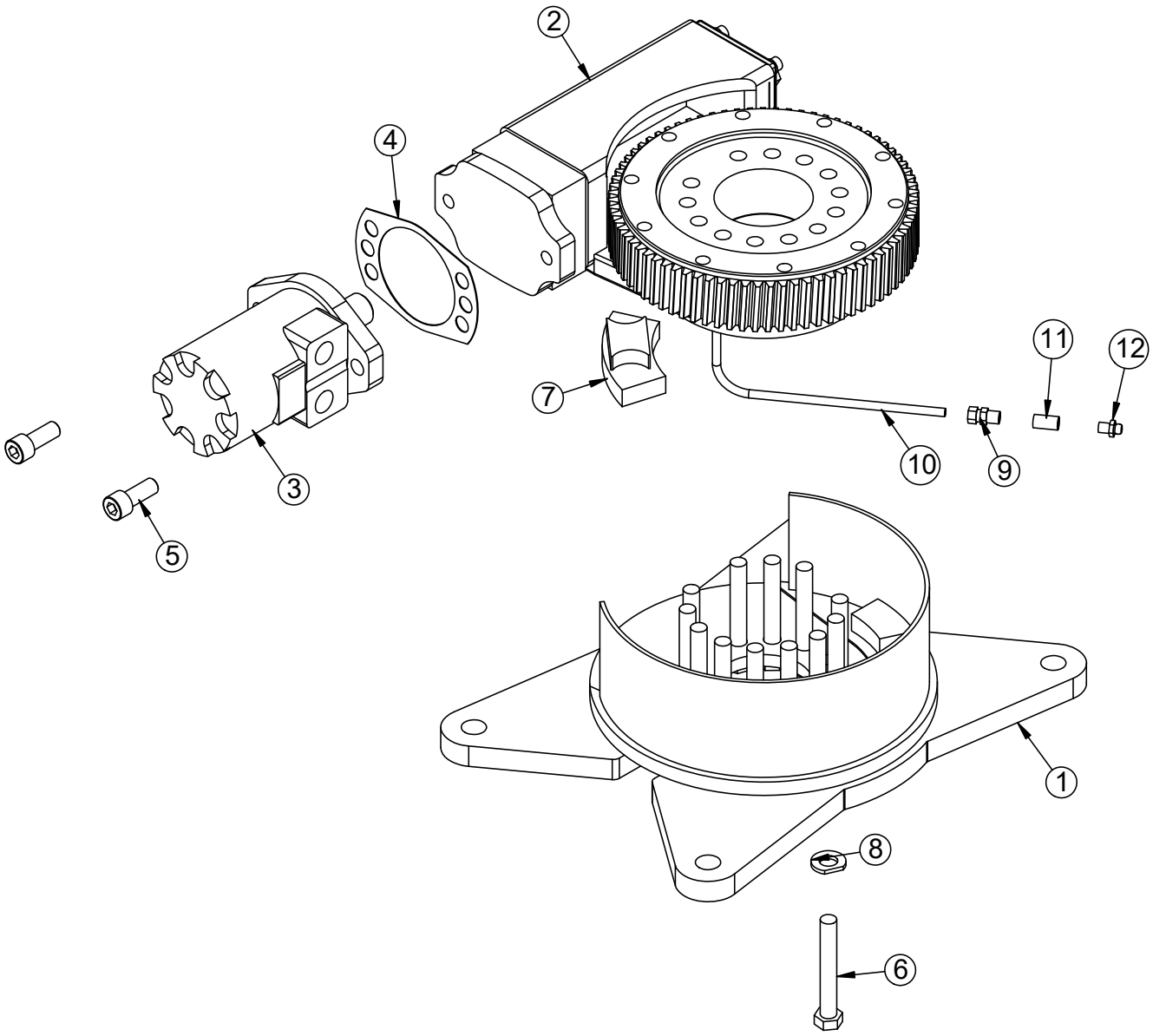
Base Assembly - PN 42525 Parts List

PN 42525			
ITEM	**PART**	**DESCRIPTION**	**QTY**
1	42784	BASE EC3200	1
2	41640	BEARING SWING DRIVE 170-00058-1	1
3	109358	MOTOR 50CC 1 IN KEYED ROT FLANGE PNT BLK	1
4	21151	GASKET MOTOR 008-10056-1	1
5	D1307	CAP SCR 0.50-13X1.25 SHGR8 W/ RED PATCH	2
6	30750	CAP SCR 0.50-13X3.50 HHGR8	13
7	42795	STOP SLIDING EC3200	1
8	105771	WASHER 0.50 SAE FLAT YELLOW GR8 CLIPPED	13
9	D1345	FTG CPRSN 0.12NPT/0.25 TUBE	2
10	D1810	TBE AIR SAEJ844 TYPE A .25 (RM)	2.33
11	22161	FTG 2-2 FP-FP COUPLER STRAIGHT BRASS	1
12	56589	ZERK 1/8 NPT STRAIGHT LONG THREAD	1
REV. E			

NOTES:

HARDWARE KITS:
97511
96198

Base Assembly (Narrow Version) - PN 44613

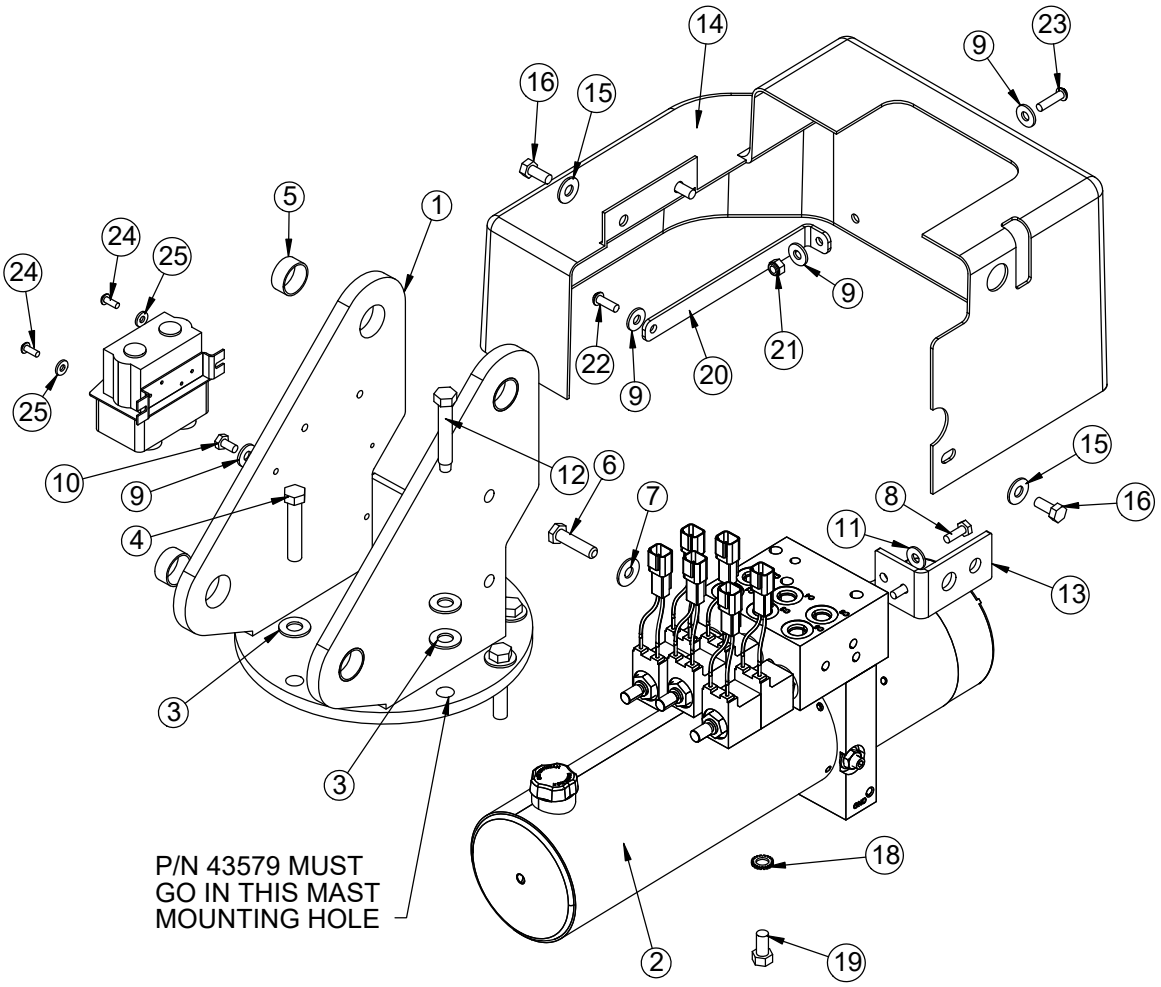


Base Assembly (Narrow Version) - PN 44613 Parts List

PN 44613			
ITEM	**PART**	**DESCRIPTION**	**QTY**
1	44614	BASE EC3200 NARROW	1
2	41640	BEARING SWING DRIVE 170-00058-1	1
3	109358	MOTOR 50CC 1 IN KEYED ROT FLANGE PNT BLK	1
4	21151	GASKET MOTOR 008-10056-1	1
5	D1307	CAP SCR 0.50-13X1.25 SHGR8 W/ RED PATCH	2
6	30750	CAP SCR 0.50-13X3.50 HHGR8	13
7	42795	STOP SLIDING EC3200	1
8	105771	WASHER 0.50 SAE FLAT YELLOW GR8 CLIPPED	13
9	D1345	FTG CPRSN 0.12NPT/0.25 TUBE	2
10	D1810	TBE AIR SAEJ844 TYPE A .25 (RM)	2.33
11	22161	FTG 2-2 FP-FP COUPLER STRAIGHT BRASS	1
12	56589	ZERK 1/8 NPT STRAIGHT LONG THREAD	1
REV. E			

NOTES:
HARDWARE KITS:
92511
96198

Mast Assembly - PN 42787



Mast Assembly - PN 42787 Parts List

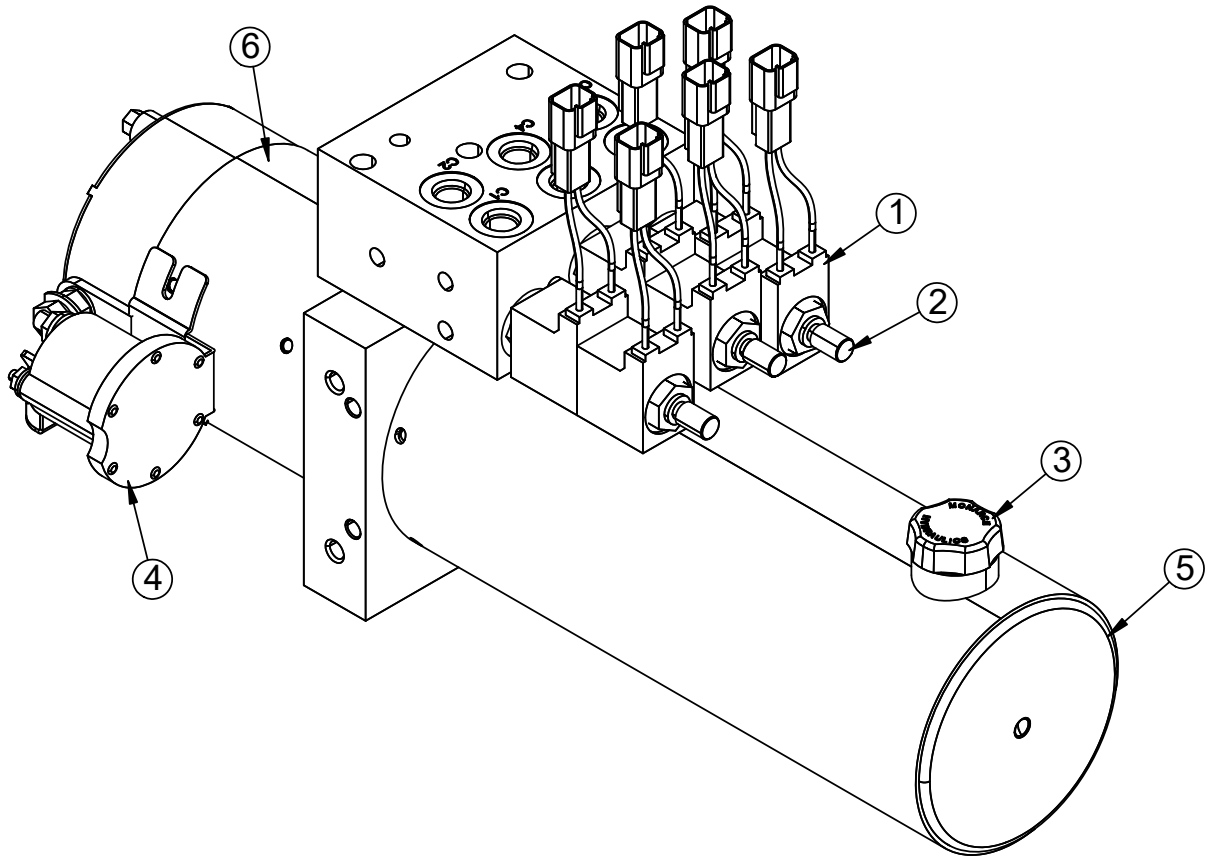
PN 42787			
ITEM	**PART**	**DESCRIPTION**	**QTY**
1	42318	MAST EC3200	1
2	42513	POWER UNIT 12V EC3200	1
3	42788	WASHER 0.44 SAE FLAT YELLOW GR8	9
4	42789	CAP SCR 0.44-14X2.25 HHGR8 ZY	7
5	20362	BUSHING BPC16DXR08 1.00X.50	4
6	0345	CAP SCR 0.38-16X1.50 HHGR5	2
7	0346	WASHER 0.38 FLAT	2
8	0479	CAP SCR 0.25-20X0.75 HHGR5	2
9	D0917	WASHER 0.25 FLAT SS	4
10	0478	CAP SCR 0.25-20X0.50 HHGR5	1
11	0340	WASHER 0.25 FLAT	2
12	43579	CAP SCR 0.44-14X2.63 EC3200 STOP	1
13	47411	BRKT OVERRIDE BUTTON EC3200	1
14	44475	COVER EC3200 HDPE	1
15	0343	WASHER 0.31 USS FLAT ZINC	3
16	0420	CAP SCR 0.31-18X0.75 HHGR5	3
18	5870	WASHER 0.38 STAR EXTERNAL	1
19	0492	CAP SCR 0.38-16X0.75 HHGR5	1
20	51896	BRKT COVER EC CRANES	1
21	30659	NUT 0.25-20 HH NYLOC SS	1
22	C6021	CAP SCR 0.25-20X0.75 BTNHD SS	1
23	C6022	CAP SCR 0.25-20X1.00 BTNHD SS	1
24	D1711	CAP SCR #10-24X0.50 BTNHD SS	2
25	D0178	WASHER #10 SAE FLAT	2
REV. E REQ912			

NOTES:

WINCH CONTROLLER (PN:42821)SHOWN FOR REFERENCE

HARDWARE KITS: 96199, 92515, 92513.

Power Unit Assembly - PN 42513



Power Unit Assembly - PN 42513 Parts List

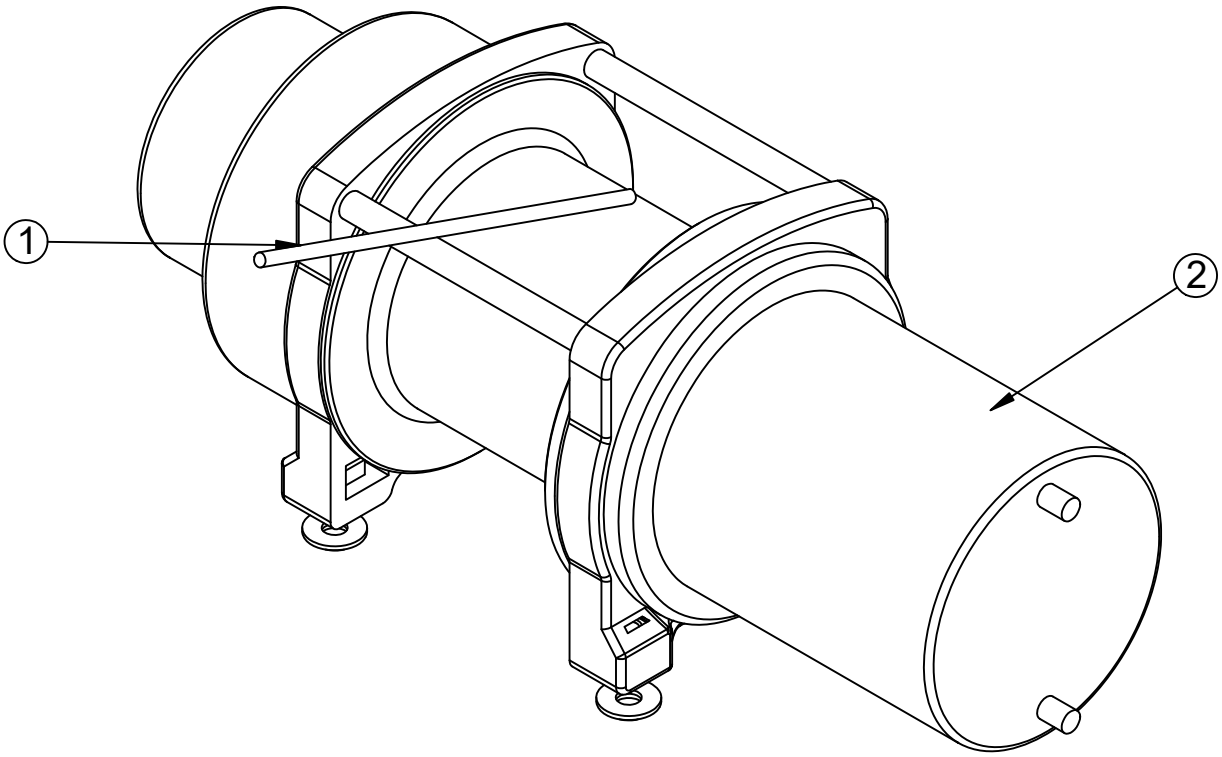
PN 42513		
ITEM	**PART**	**DESCRIPTION**
1	44027	VALVE COIL EC3200 POWER UNIT
2	44028	VALVE CARTRIDGE EC3200 UNIT
REV. INITIAL RELEASE		

MANUFACTURER: BUCHER HYDRAULICS		
ITEM	**PART**	**DESCRIPTION**
3	44025	FILL CAP- HYD RSRVR
4	44030	SOLENOID START EC3200 P-UNIT
5	44026	RSRVR EC3200 POWER UNIT
6	44029	MOTOR 12V EC3200 POWER UNIT
7	56648	ORING RSRVR EC3200 POWER UNIT

MANUFACTURER: MTE HYDRAULICS		
ITEM	**PART**	**DESCRIPTION**
3	44025	FILL CAP- HYD RSRVR
4	44030	SOLENOID START EC3200 P-UNIT
5	99353	RSRVR EC3200 POWER UNIT
6	100734	MOTOR 12V EC3200 POWER UNIT
7	125086	ORING RSRVR EC3200 POWER UNIT

MANUFACTURER: KIT HYDRAULICS		
ITEM	**PART**	**DESCRIPTION**
3	136638	FILL CAP- HYD RSRVR
4	136639	SOLENOID START EC3200 P-UNIT
5	136640	RSRVR EC3200 POWER UNIT
6	136641	MOTOR 12V EC3200 POWER UNIT
7	136642	ORING RSRVR EC3200 POWER UNIT

Winch DC 1600 W/65 FT Rope - PN 106133



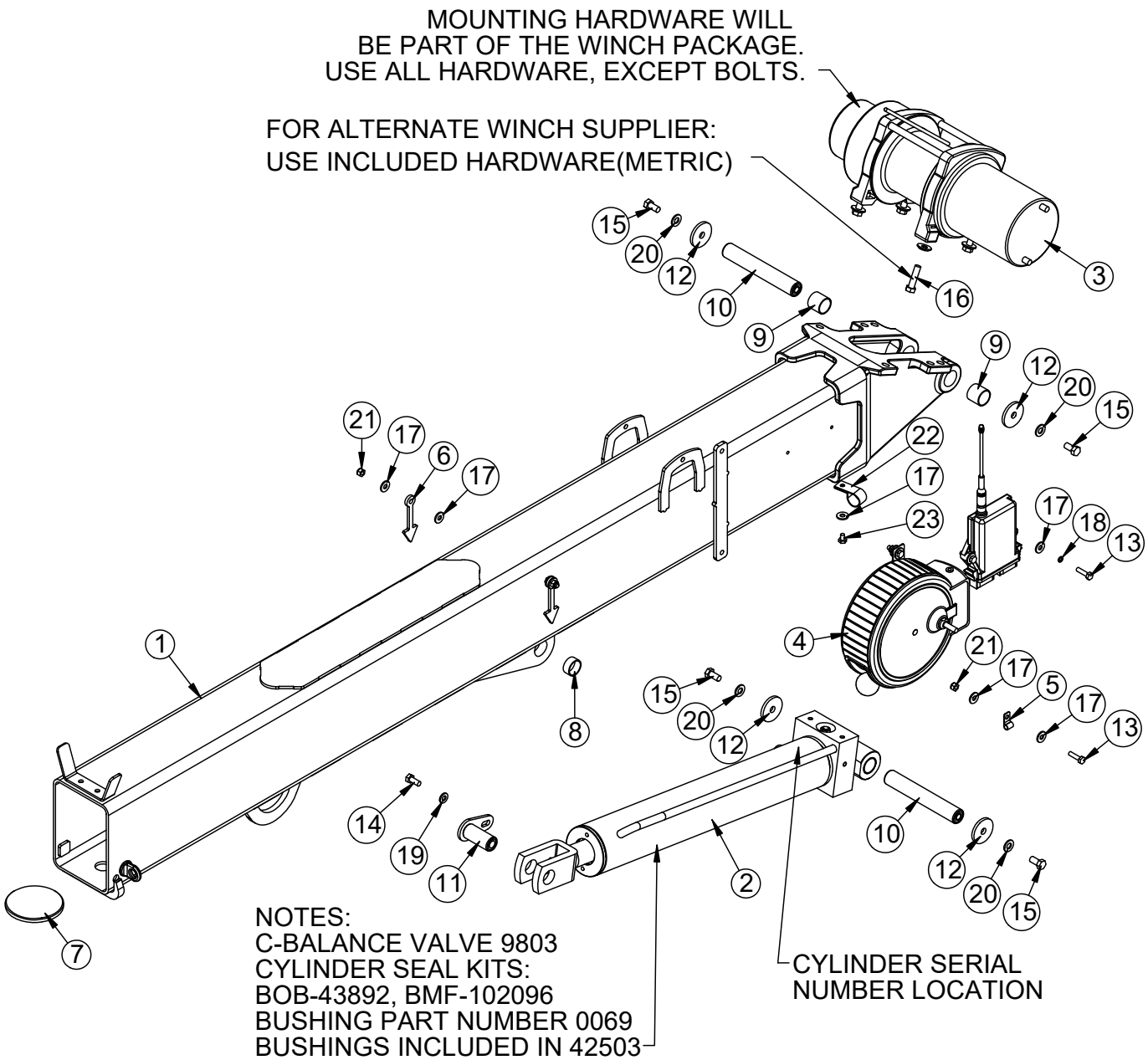
Winch DC 1600 W/65 FT Rope - PN 106133 Parts List

PN 106133		
ITEM	**PART**	**DESCRIPTION**
1	42316	WIRE ROPE 7/32 7X19 GAC 65FT

MANUFACTURER: WARN WINCH		
ITEM	**PART**	**DESCRIPTION**
2	69303	SERVICE KIT MOTOR SPLINED 12V

MANUFACTURER: COMEUP WINCH		
ITEM	**PART**	**DESCRIPTION**
2	136643	SERVICE KIT MOTOR SPLINED 12V

Main Boom Assembly - PN 142956



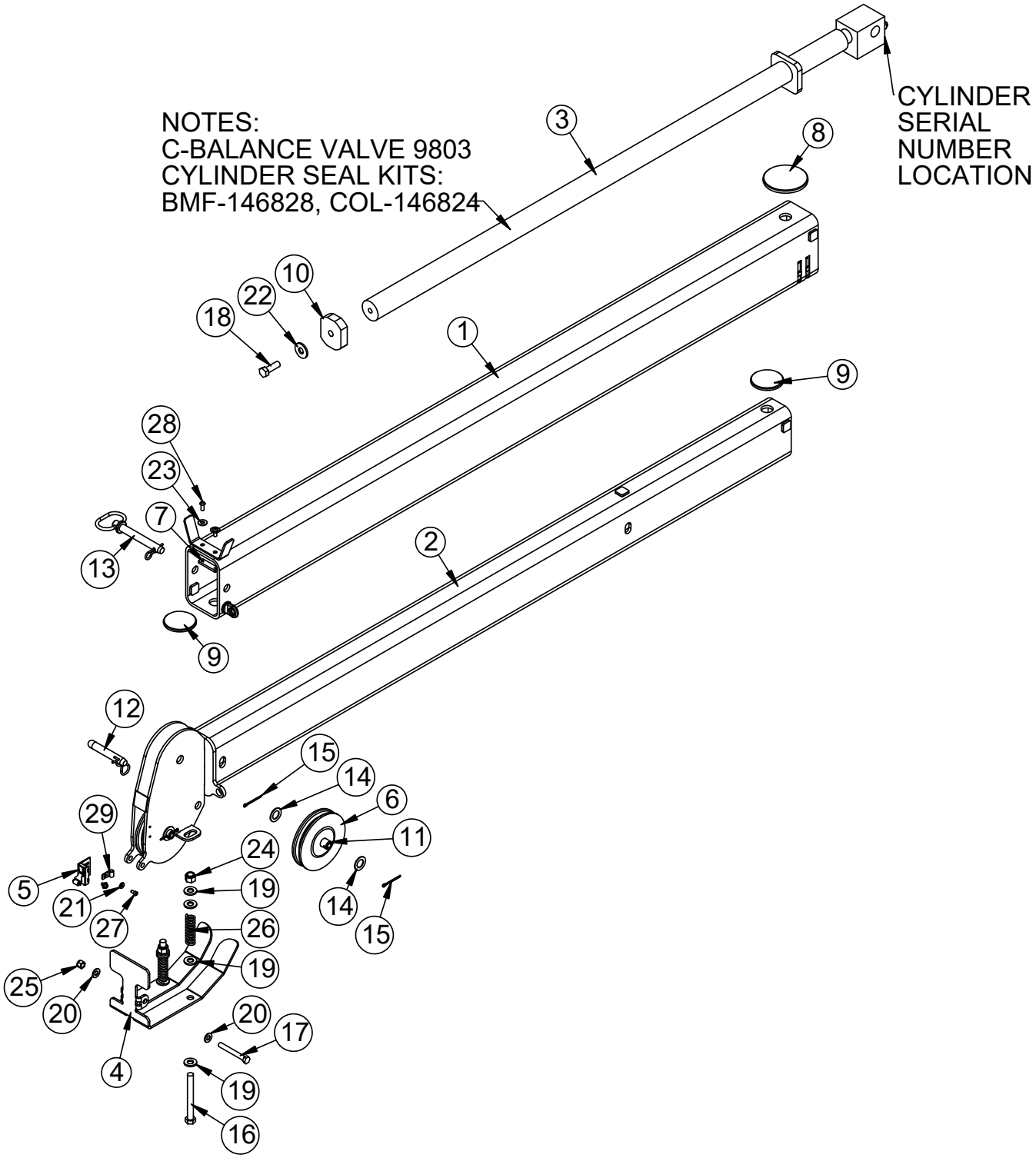
Main Boom Assembly - PN142956 Parts List

PN 142956			
ITEM	**PART**	**DESCRIPTION**	**QTY**
1	142957	INNER BOOM EC3200 V2	1
2	42503	CYLINDER 3.00X13.00 EC3200	1
3	106133	WINCH DC1600 W/65 FT ROPE	1
4	72602	CORD REEL ASM 15/21 FT CRANE	1
5	C5606	CLAMP 0.25 BLK VINYL	1
6	140502	PLATE ANGLE INDICATOR HSS 3.25 BLACK	2
7	142568	WEAR PAD 0.28X3.75 RND	1
8	20362	BUSHING BPC16DXR08 1.00X.50	1
9	0069	BUSHING BPC16DXR16 1.00X1.00	2
10	11688CR	PIN 1.00X6.31D&T ZC	2
11	42517CR	PIN TEAR DROP 1.00X2.19 ZC	1
12	9320	PIN CAP 0.56X3.50X.25	4
13	0480	CAP SCR 0.25-20X1.00 HHGR5	4
14	53521	CAP SCR 0.31-18X0.75 HHGR8	1
15	9843	CAP SCR 0.38-16X0.75 HHGR8	4
16	0345	CAP SCR 0.38-16X1.50 HHGR5	4
17	0340	WASHER 0.25 USS FLAT	11
18	0521	WASHER 0.25 LOCK	2
19	5591	WASHER 0.31 SAE FLAT YELLOW GR8	1
20	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	4
21	0333	NUT 0.25-20 HHGR5 NYLOC	4
22	C0082	CLAMP 0.75 BLK VINYL	1
23	43845	CAP SCR 0.25-20X0.38 HHGR5	1
REV. B REQ935			

HARDWARE INCLUDED WITH ALTRNATE WINCH	
DESCRIPTION	**QTY**
CAP SCR M10X40L 8.8	4
WASHER LOCK 10MM	4
WASHER FLAT 10MM	4
NUT SQUARE 10MM	4

NOTE: HARDWARE KIT: 146527

Extension Boom Assembly - PN 143201

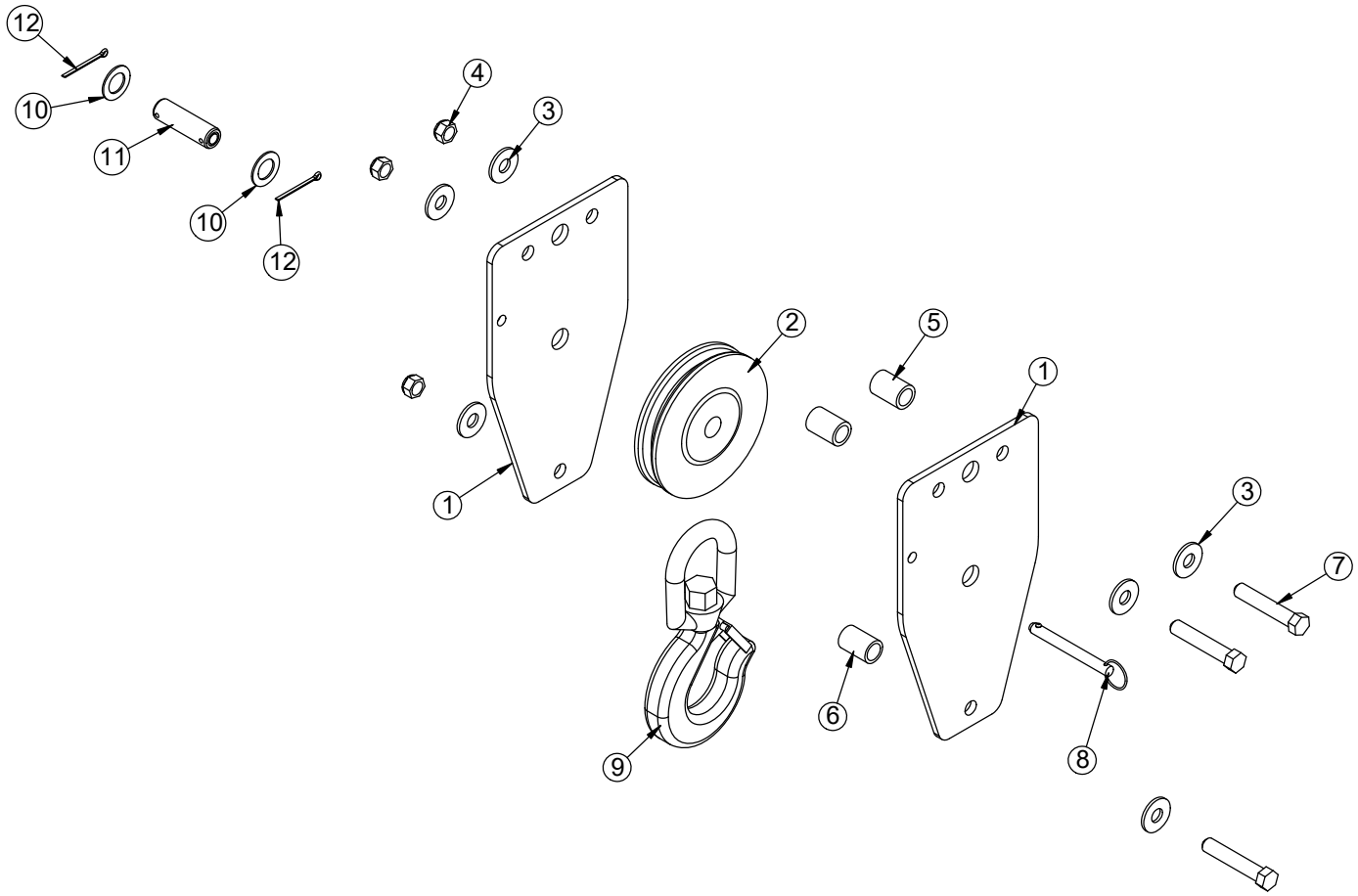


Extension Boom Assembly - PN 143201 Parts List

PN 143201			
ITEM	**PART**	**DESCRIPTION**	**QTY**
1	143202	EXT BOOM 1ST EC3200 V2	1
2	143205	EXT BOOM 2ND EC3200 V2	1
3	143211	CYLINDER 1.50X48.00 EC3200 V2	1
4	143212	PLATE CRADLE EC3200 V2	1
5	29085	SWITCH LIMIT E1117-B9111-6C	1
6	16494	SHEAVE 3515 5.25 DIA .25R/1.12 THK	2
7	143215	PLATE BOOM STOP EC3200 V2	1
8	142568	WEAR PAD 0.28X3.75 RND	1
9	146827	WEAR PAD 0.22X2.75 RND	2
10	143214	WEAR PAD EXT CYL EC3200 V2	1
11	42524CR	PIN 0.75X2.50 COTTER ZC	2
12	143579	PIN HITCH 0.63X3.00 BENT	1
13	42977	PIN HITCH 0.63X4.00	1
14	0375	MACHY WASHER 0.75ID 14GA	4
15	37824	COTTER PIN .125X1.00	4
16	0507	CAP SCR 0.50-13X4.50 HHGR5	2
17	C0949	CAP SCR 0.38-16X3.00 HHGR5	1
18	0359	CAP SCR 0.50-13X1.50 HHGR5	1
19	D0790	WASHER 0.50 SAE FLAT YELLOW GR8	8
20	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	2
21	D0178	WASHER #10 SAE FLAT	2
22	0352	WASHER 0.50 USS FLAT	1
23	0340	WASHER 0.25 USS FLAT	2
24	C6106	NUT 0.50-13 HHGR5 NYLOC	2
25	0347	NUT 0.38-16 HHGR5 NYLOC	1
26	27710	SPRING ANTI 2 BLOCK CRADLE A2B	2
27	43846	SCREW #10-24X0.38 SH SS	2
28	110014	CAP SCR 0.25-20X0.63 BTNHD SS	2
29	C5606	CLAMP 0.25 BLK VINYL	1
REV. B REQ935			

NOTE: HARDWARE KIT: 146528

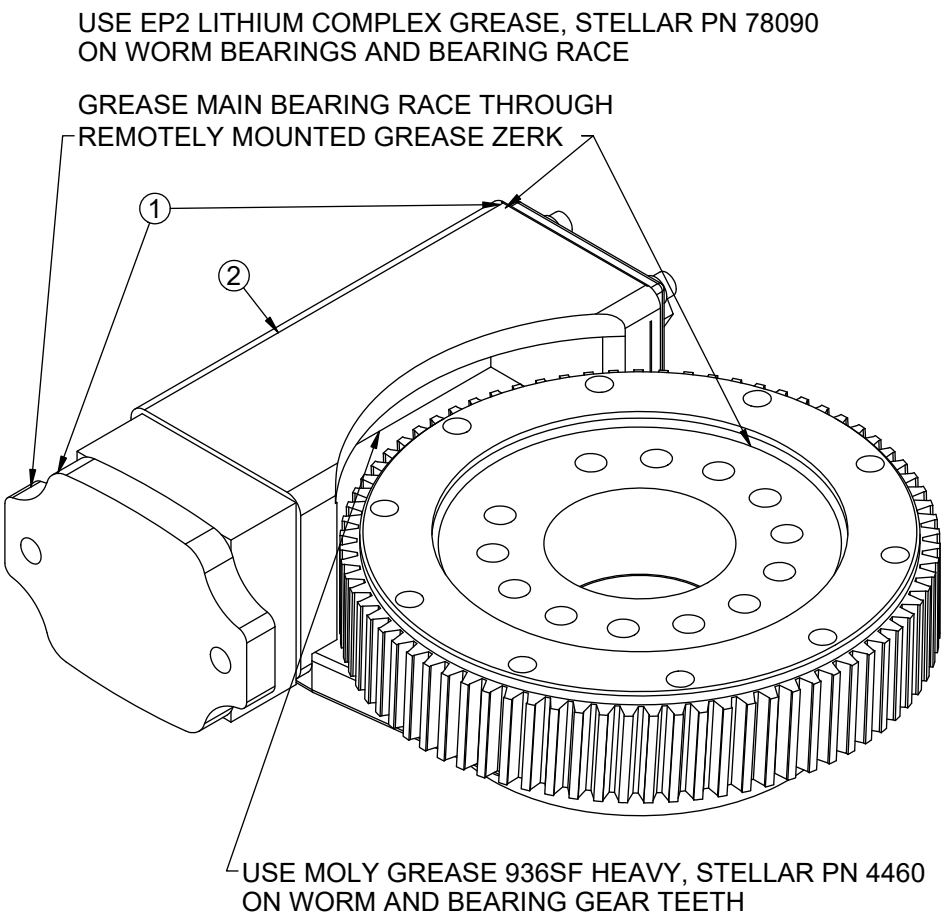
Snatch Block Assembly - PN 143584



Snatch Block Assembly - PN 143584 Parts List

PN 143584			
ITEM	**PART**	**DESCRIPTION**	**QTY**
1	42523PC	PLATE SNATCH BLOCK EC3200 PC RED ET-5391	2
2	16494	SHEAVE 3515 5.25 DIA .25R/1.12 THK	1
3	0352	WASHER 0.50 USS FLAT ZINC	6
4	5468	NUT 0.50-13 HHGR8 NYLOC	3
5	27810	SPACER 3315 SNATCH BLOCK UHMW	2
6	16607	SPACER 3315 SNATCH BLOCK BLACK	1
7	47868	CAP SCR 0.50-13X2.75 HHGR8	3
8	9263	PIN .38X3.00 QUICK RELEASE	1
9	C6018	HOOK CRANE-3 TON	1
10	0375	MACHY WASHER 0.75ID 14GA	2
11	42524CR	PIN 0.75X2.50 COTTER ZC	1
12	37824	COTTER PIN .125X1.00	2
REV. A REQ931			

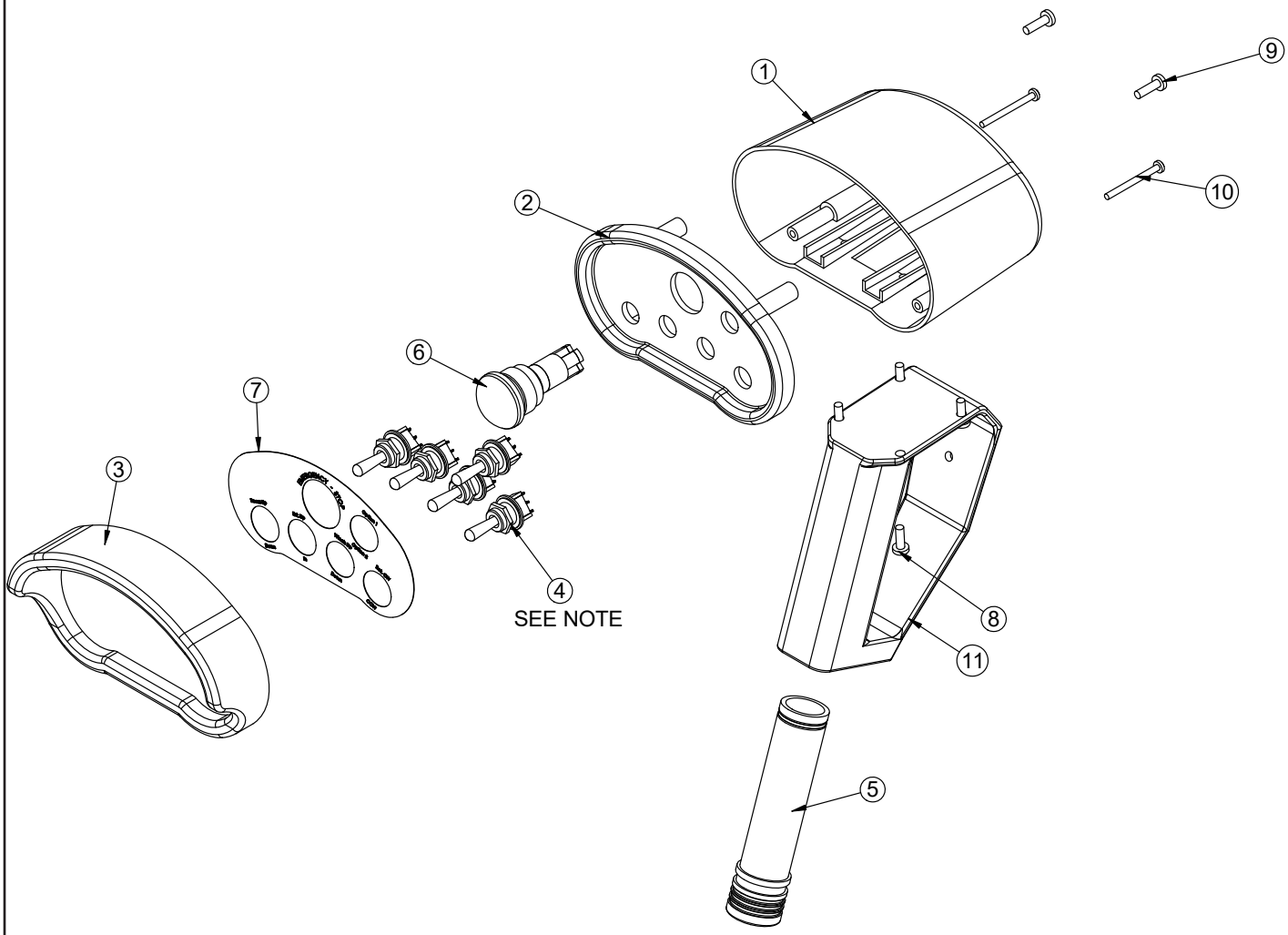
Gear Bearing Assembly - PN 41640



PN 41640			
ITEM	**PART**	**DESCRIPTION**	**QTY**
1	44383	BEARING AND SEAL KIT EC3200 GP	1
2	44375	WORM EC3200 GEAR PROD 170-10081-1	1
REV. INITIAL RELEASE			

PN 41640			
ITEM	**PART**	**DESCRIPTION**	**QTY**
1	77737	BEARING AND SEAL KIT EC3200 KNMTS	1
2	77738	WORM EC3200 KNMTS	1
REV. INITIAL RELEASE			

Radio Transmitter Assembly - PN 67894



PN 67894			
ITEM	**PART**	**DESCRIPTION**	**QTY**
1	20088	CONTROL HANDLE HOUSING 4 FCTN HET	1
2	51830	CONTROL HANDLE FACE PLT 5 FCTN	1
3	24385	GUARD RADIO SWITCH 4 FCTN	1
4	22600	SWITCH TOGGLE HET RADIO 63019300	5
5	35441	BATTERY TUBE AA HETRONIC RADIO	1
6	16975	SWITCH E STOP ASM HETRONIC RADIO	1
7	51831	DECAL CONTROL HANDLE 5 FCTN	1
8	38475	SCREW 4MMX12MM PHMS PH	4
9	36156	SCREW 4MMX14MM PHMS PH	2
10	29460	SCREW 3MMX35MM PHMS PH	2
11	50932	CONTROL HANDLE GRIP LESS TRIGGER HET H2	1
REV. INITIAL RELEASE			

NOTE: 1) P/N'S 25999 & 24958 ARE OPTIONAL COVERS FOR THE SWITCHES AND TRIGGER



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