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**Manual # 91729049 REV A**

# **Series 5 5300-23, 6300-23, 5300e-23 and 6300e-23 Crane Parts & Specifications**

**03-05-2026**

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## WARNING

Operating, servicing and maintaining this vehicle or equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle or equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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**Section - 1** **Introduction**

## Equipment Safety

### PERSONNEL REQUIREMENTS

Certain inherent risks are associated with heavy equipment. Personnel working in the area of these vehicles are subject to certain hazards that cannot be guarded against by mechanical means, but only by the exercise of intelligence, care, and common sense. It is therefore essential for the owner of this equipment to have personnel involved in the use and operation of these vehicles who are competent, careful, physically and mentally qualified, and trained in the safe operation of this equipment.

### TRAINING

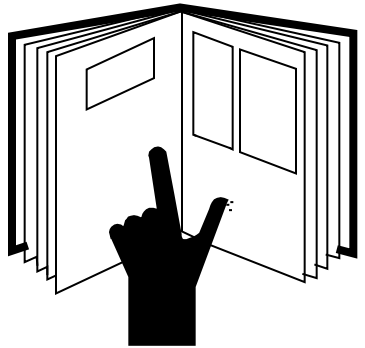
Prior to using any of the equipment installed on or incorporated in the IMT Crane Body Mechanics Truck, you must:

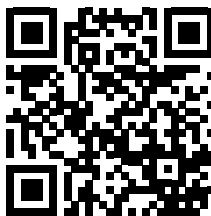
- Have already been fully trained to operate the vehicle and equipment.
- Have demonstrated the effectiveness of your training and the extent of your knowledge.

**BEFORE** operating this vehicle and any associated equipment, you, the operator or maintainer, must read, understand, and follow the instructions found in the operator and maintenance manuals from the manufacturers of major components used on this vehicle or equipment

Proper tools and service equipment must be used taking appropriate precautions as required by accepted safety practices to prevent personal injury and / or equipment damage

If you are uncertain about the safe operation of any aspect of this vehicle or equipment, stop immediately and seek further training.

<b>⚠ WARNING</b>	
	<ul style="list-style-type: none"><li>• Only trained personnel should operate this equipment.</li><li>• Do not operate or service until you have read and understood the operation and service manual supplied with this equipment.</li><li>• Manuals can be obtained from manufacturer's website or by contacting customer service.</li><li>• Operating this equipment without knowledge or training may lead to injury or death for you or others.</li></ul>



[www.imt.com/service-manuals](http://www.imt.com/service-manuals)

## INTRODUCTION

This volume includes specifications, installation information, and spare parts drawings applicable to your particular crane. For operating, maintenance and repair instructions, see *Series 5 Hydraulic & Electric Telescopic Operator's Manual*, part number 91729072.

It is your responsibility to operate and maintain this unit in a manner that will result in the safest working conditions possible. You must be aware of existing Federal, State and Local codes and regulations governing the safe use and maintenance of this IMT crane. The crane was designed and built to meet the standards of ANSI/ASME B30.5, Mobile & Locomotive Cranes. Contact the American Society of Mechanical Engineers ([www.asme.org](http://www.asme.org)) for more information on ANSI/ASME B30.5.

Misuse of the crane through overloading, abuse, lack of maintenance and unauthorized modifications will void the warranty on any part of the unit subjected to this misuse. No warranty—verbal, written or implied—other than the official, published IMT new machinery and equipment warranty will be valid with this unit.

Throughout the manual, **NOTE**, **CAUTION**, and **WARNING** are used to draw the attention of personnel. They are defined as follows:

### WARNING

A WARNING is used when there is the potential for personal injury or death.

### CAUTION

A CAUTION is used when there is the very strong possibility of damage to the equipment or premature equipment failure.

### NOTE

A NOTE is used to either convey additional information or to provide further emphasis for a previous point.

For a safe work environment, treat this equipment with respect and service it regularly.

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## Personal Fall/Tie-Off Protection

When using IMT products for the purpose of personal fall protection, users shall read, understand, and follow the personal fall protection provisions of OSHA 29 CFR 1926.1423, paragraphs (g) *Anchorage criteria*; (j) *Anchoring to the load line*; (k) *Training*. **Note** OSHA sections, 1926.502(d)(15)\* and 1926.502(e)(2)\*, are cross-referenced in this section and is up to the user to read, understand, and follow these regulations. The above-referenced provisions within OSHA address specific personal fall protection requirements; however, users of IMT products are required to read, understand and follow all OSHA, industry, workplace, and employer-created regulations governing the use of this product, which includes, but is not limited to, 29 CFR 1926.1423. The user is also required to read, understand, and follow IMT's warnings and instructions. Nothing within this letter should be interpreted to limit or excuse non-compliance with the above requirements in their entirety.

When using IMT products with personal fall protection as described above, users shall utilize a two-part line with the snatch block installed on the hoist load line. The personal fall protection shall be attached to the hook on the snatch block. The personal fall protection device shall be connected to the hook on the snatch block only if the hook has the original safety latch on the hook. At no time shall anyone use the hook on the snatch block for purposes of attaching personal fall protection if the safety latch is not original to the hook, or is missing or damaged, and/or if the safety latch is not properly functioning. At no time shall anyone use the hoist wire-rope as a tie-off point for personal fall protection. The failure to follow the above regulations and strict adherence to all applicable OSHA, industry, workplace, employer-created, and IMT warnings and instructions can lead to personal injury or death

\* In order to use this method, the hook must have a safety latch, the crane must be capable of supporting 5,000 pounds (refer to the load chart affixed to the crane), limit the fall to less than 6-feet, and not allow a swinging fall. Crane hooks should be used only where there is no other suitable anchor point.

These OSHA regulations can be found at:

[https://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=STANDARDS&p\\_id=67](https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=67)



OSHA website

**Section - 2**

**Specifications**

## General Specifications 5300-23 & 5300e-23

GENERAL SPECIFICATIONS		
	5300-23	5300e-23
<b>CRANE RATING</b>	32,000 ft-lb (4.9 tm)	
<b>HORIZONTAL REACH - FLIP SHEAVE UP</b> (From centerline of rotation.)	21'-11" (6.7 m)	
<b>HORIZONTAL REACH - FLIP SHEAVE DOWN</b> (From centerline of rotation.)	21'- 0" (6.4 m)	
<b>FULLY RETRACTED LENGTH</b>	13'- 8" (4.1 m)	13'- 5" (4.0 m)
<b>HYDRAULIC EXTENSIONS (2)</b>	59" & 56.1" (150 cm & 142.6 cm)	
<b>LIFTING HEIGHT</b>	20'-10" (6.3 m)	
<b>CRANE WEIGHT</b>	1181 lb (535.7 kg)	1231 lb (558.4 kg)
<b>CRANE STORAGE HEIGHT</b>	37.5" (95.3 cm)	
<b>MOUNTING SPACE REQUIRED</b> (Crane base.)	19.9" x 17.3" 50.5 cm x 43.9 cm	
<b>OPTIMUM PUMP CAPACITY</b>	8 gpm (30.3 L/min)	3 gpm (11.4 L/min)
<b>POWER UNIT RESERVOIR CAPACITY</b>	NA	2 gallons (7.6 L)
<b>SYSTEM OPERATING PRESSURE</b>	2300 psi (158.6 Bar)	
<b>CENTER OF GRAVITY</b> Horizontal from centerline of rotation.	43.04" (71.2 cm)	
Vertical from bottom of crane base.	18.24" (45.7 cm)	
<b>TIE-DOWN BOLT PATTERN (4 bolts)</b>	14.75" x 14.75" (37.5 cm x 37.5 cm )	
PERFORMANCE SPECIFICATIONS		
<b>ROTATION LIMIT</b>	400°	400°
<b>TIME FOR FULL ROTATION</b>	33 sec	92 sec
<b>LOWER BOOM ELEVATION</b>	-10° to +80°	-10° to +80°
<b>LOWER BOOM ELEVATION SPEED</b>	12 sec (Raise) 13 sec (Lower)	35 sec (Raise) 76 sec (Lower)
<b>EXTENSION CYLINDERS SPEED</b>	11 sec (Extend) 14 sec (Retract)	26 sec (Extend) 23 sec (Retract)
<b>HOIST SPEED</b>	52 ft/min	28 ft/min

## General Specifications 6300-23 & 6300e-23

GENERAL SPECIFICATIONS		
	6300-23	6300e-23
<b>CRANE RATING</b>	47,000 ft-lb (7.2 tm)	
<b>HORIZONTAL REACH - FLIP SHEAVE UP</b> (From centerline of rotation.)	21'-11" (6.7 m)	
<b>HORIZONTAL REACH - FLIP SHEAVE DOWN</b> (From centerline of rotation.)	21'- 0" (6.4 m)	
<b>FULLY RETRACTED LENGTH</b>	13'- 8" (4.1 m)	13'- 5" (4.0 m)
<b>HYDRAULIC EXTENSIONS (2)</b>	59" & 56.1" (150 cm & 142.6 cm)	
<b>LIFTING HEIGHT</b>	20'-10" (6.3 m)	
<b>CRANE WEIGHT</b>	1181 lb (535.7 kg)	1231 lb (558.4 kg)
<b>CRANE STORAGE HEIGHT</b>	37.5" (95.3 cm)	
<b>MOUNTING SPACE REQUIRED</b> (Crane base.)	19.9" x 17.3" 50.5 cm x 43.9 cm	
<b>OPTIMUM PUMP CAPACITY</b>	8 gpm (30.3 L/min)	3 gpm (11.4 L/min)
<b>POWER UNIT RESERVOIR CAPACITY</b>	NA	2 gallons (7.6 L)
<b>SYSTEM OPERATING PRESSURE</b>	2750 psi (189.6 Bar)	
<b>CENTER OF GRAVITY</b> Horizontal from centerline of rotation.	43.04" (71.2 cm)	
Vertical from bottom of crane base.	18.24" (45.7 cm)	
<b>TIE-DOWN BOLT PATTERN (4 bolts)</b>	14.75" x 14.75" (37.5 cm x 37.5 cm )	
PERFORMANCE SPECIFICATIONS		
<b>ROTATION LIMIT</b>	400°	400°
<b>TIME FOR FULL ROTATION</b>	33 sec	92 sec
<b>LOWER BOOM ELEVATION</b>	-10° to +80°	-10° to +80°
<b>LOWER BOOM ELEVATION SPEED</b>	12 sec (Raise) 13 sec (Lower)	35 sec (Raise) 76 sec (Lower)
<b>EXTENSION CYLINDERS SPEED</b>	11 sec (Extend) 14 sec (Retract)	26 sec (Extend) 23 sec (Retract)
<b>HOIST SPEED</b>	52 ft/min	28 ft/min

## Performance Specifications

CHASSIS SPECIFICATIONS		
	5300(e)-23	6300(e)-23
<b>CHASSIS STYLE</b>	Conventional Cab	Conventional Cab
<b>BODY STYLE</b>	DSC 30	DOM 1
<b>RBM*</b>	400,000 in-lb (45,194 N-m)	600,000 in-lb (67,796 N-m)
<b>FRAME SECTION MODULUS (MINIMUM)</b>	8 cubic inches (131 cc)	12 cubic inches (196.6 cc)
<b>GVW (MINIMUM)</b>	15,000 lb Minimum (6,803 kg)	19,500 lb Minimum (8,845 kg)
ELECTRICAL REQUIREMENTS (5300e & 6300e Only)		
<b>System Voltage</b>	12 Volts	
<b>Battery</b>	<i>Minimum of 2 identical batteries in parallel</i>	
	<i>750 CCA MIN per battery.</i>	
	<i>Must meet chassis manufacturer's specifications.</i>	
	<i>Batteries must be fully charged prior to use.</i>	
<b>Alternator</b>	<i>HD Dual Alternators</i>	
<b>Engine</b>	<i>Elevated RPM required if additional high amperage draw systems will be in use while crane is being operated.</i>	

### NOTES:

**\*ALL PUBLISHED SPEEDS WERE MEASURED USING THE SPECIFIED FLOW RATES.**

\* RESISTANCE TO BENDING MOMENT.

1. THE GROSS VEHICLE WEIGHT RATING (GVW) IS A MINIMUM GUIDELINE. CONTACT IMT IF YOU HAVE QUESTIONS REGARDING YOUR PARTICULAR INSTALLATION.
2. ALL CHASSIS, CRANE AND BODY COMBINATIONS MUST BE STABILITY-TESTED PER ANSI B30.5 REQUIREMENTS.

**POWER SOURCE (5300-23 & 6300-23 ONLY)**

PTO DRIVEN - Integral mounted hydraulic pump and PTO application. Other standard power sources may be used.

**CYLINDER HOLDING VALVES**

The holding sides of all cylinders are equipped with integral-mounted counterbalance valves to prevent sudden cylinder collapse in case of hose failure.

**ROTATION SYSTEM**

Rotation of the crane is accomplished through a turntable gear bearing powered by a high-torque hydraulic motor through worm gear reduction. Standard rotation is 400°.

**HYDRAULIC SYSTEM (PTO DRIVEN)**

The hydraulic system is an open-centered, full-pressure system that requires 8 gpm (*30.3 L/min.*) optimum oil flow **5300-23** is at 2300 PSI (*158.6 Bar*) and **6300-23** is at 2750 PSI (*189.6 Bar*). It is equipped with a four-section, single proportion, valve bank operated with an RF remote control system with an included 33' radio elimination cable. The system includes a separate hydraulic oil reservoir, return-line filter and control valve.

**NOTE:**

UNIT IS FACTORY-FILLED WITH ISO 32 HYDRAULIC OIL. OIL IS PRE-INSTALLED AND READY FOR USE. CHANGE OIL AS REQUIRED BASED ON OPERATING TEMPERATURE AND CUSTOMER CLIMATE CONDITIONS.

**OVERLOAD PROTECTION SYSTEM**

Overloading of the crane is prevented by the overload protection system. Two pressure transducers mounted on the lower cylinder sense overload conditions. When in an overload situation, the hoist-up, extension-out, and boom-down functions are stopped. To relieve the situation, raise the boom, retract the extensions, or lower the hoist.

**HOIST**

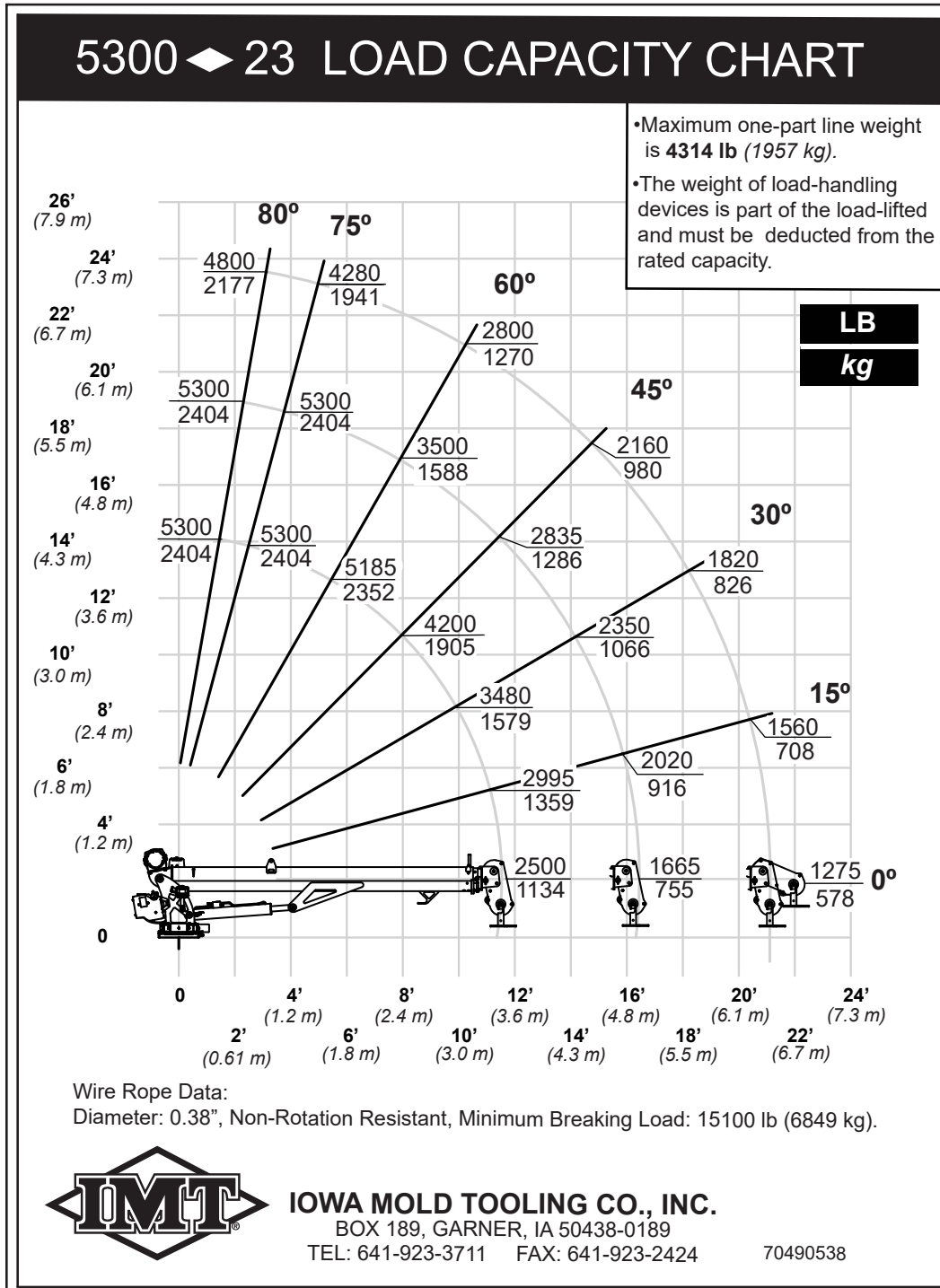
The 3,000 lb (*1361 kg*) planetary hoist is powered using a high-torque hydraulic (**5300-23 or 6300-23**) or electric (**5300e-23 or 6300e-23**) motor. The lifting capacity of the hoist is 3,000 lb (*1361 kg*) one-part line. Maximum two-part line capacity is based on the maximum crane capacity. The hoist is equipped with 85ft (25.9 m) of .38 (9.6 mm) of 6 x 25 IWRC EIPS wire rope. A compact, anti-two block device is included to prevent the lower block or hook assembly from coming in contact with the boom sheave assembly. The hoist meets ANSI B30.5 standards.

**IOWA MOLD TOOLING CO., INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS AND DESIGN WITHOUT NOTICE.**

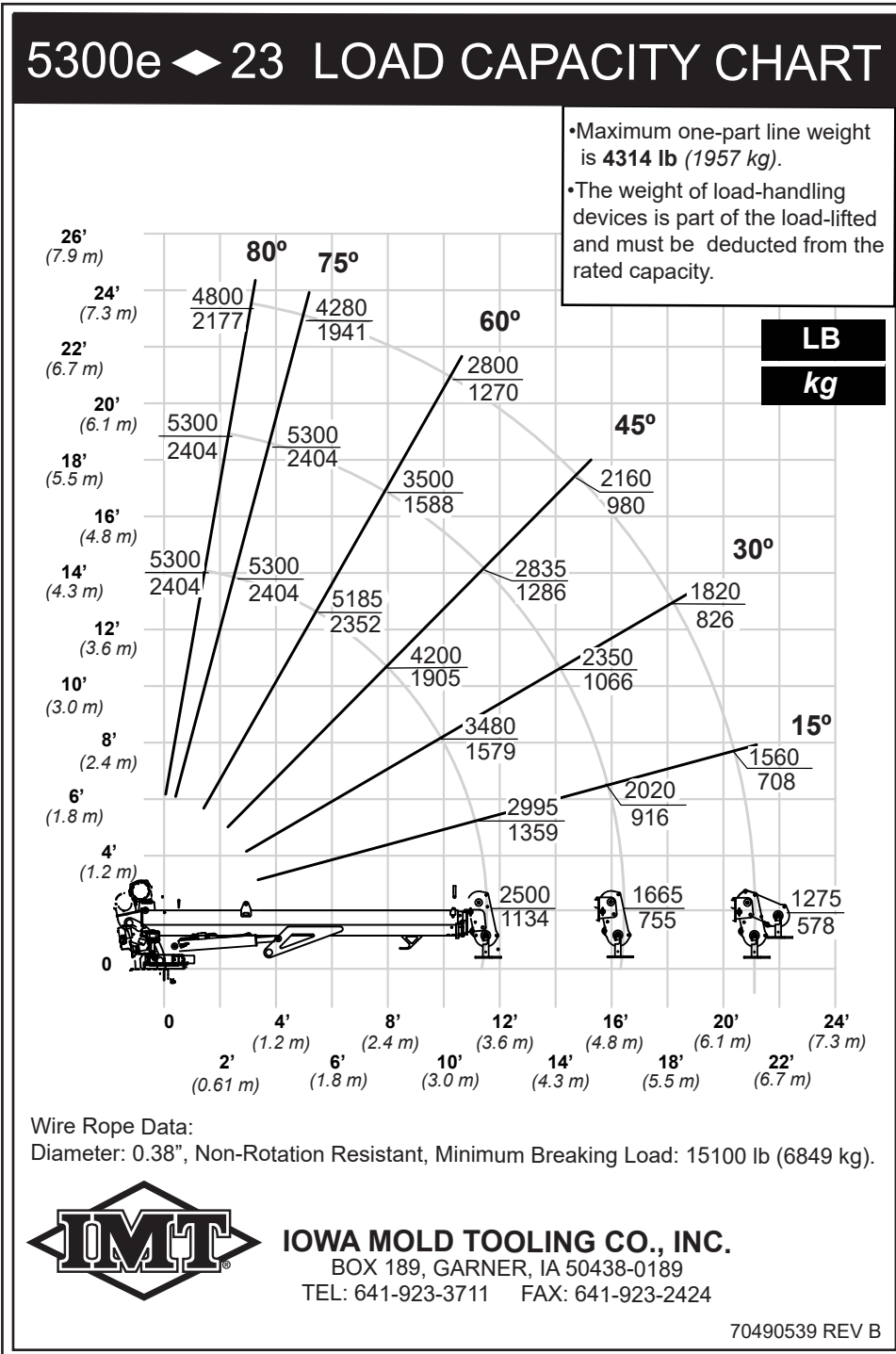
**Section - 3**

**Load Capacity Chart**

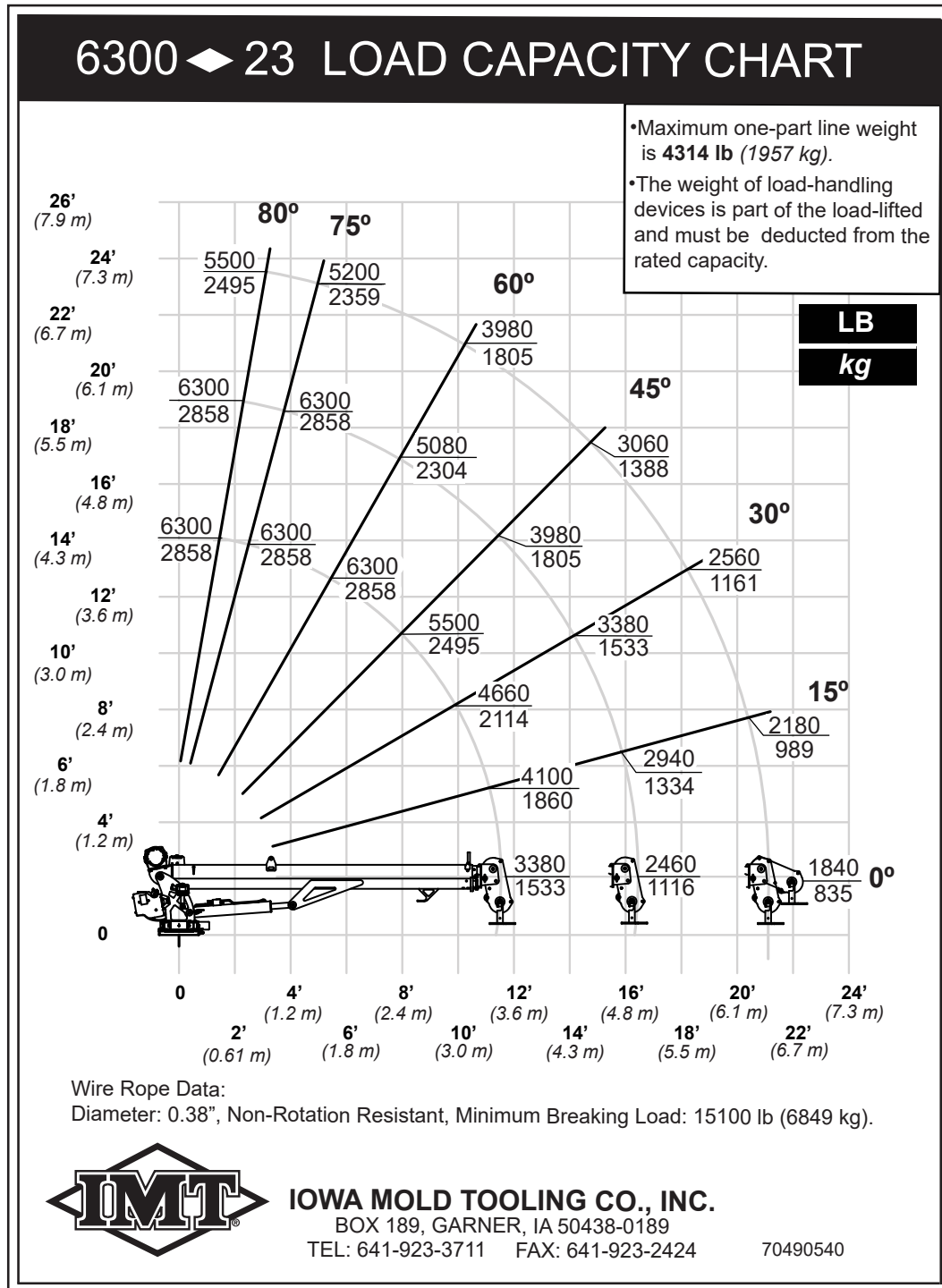
# Capacity Load Chart 5300-23 (70490538)



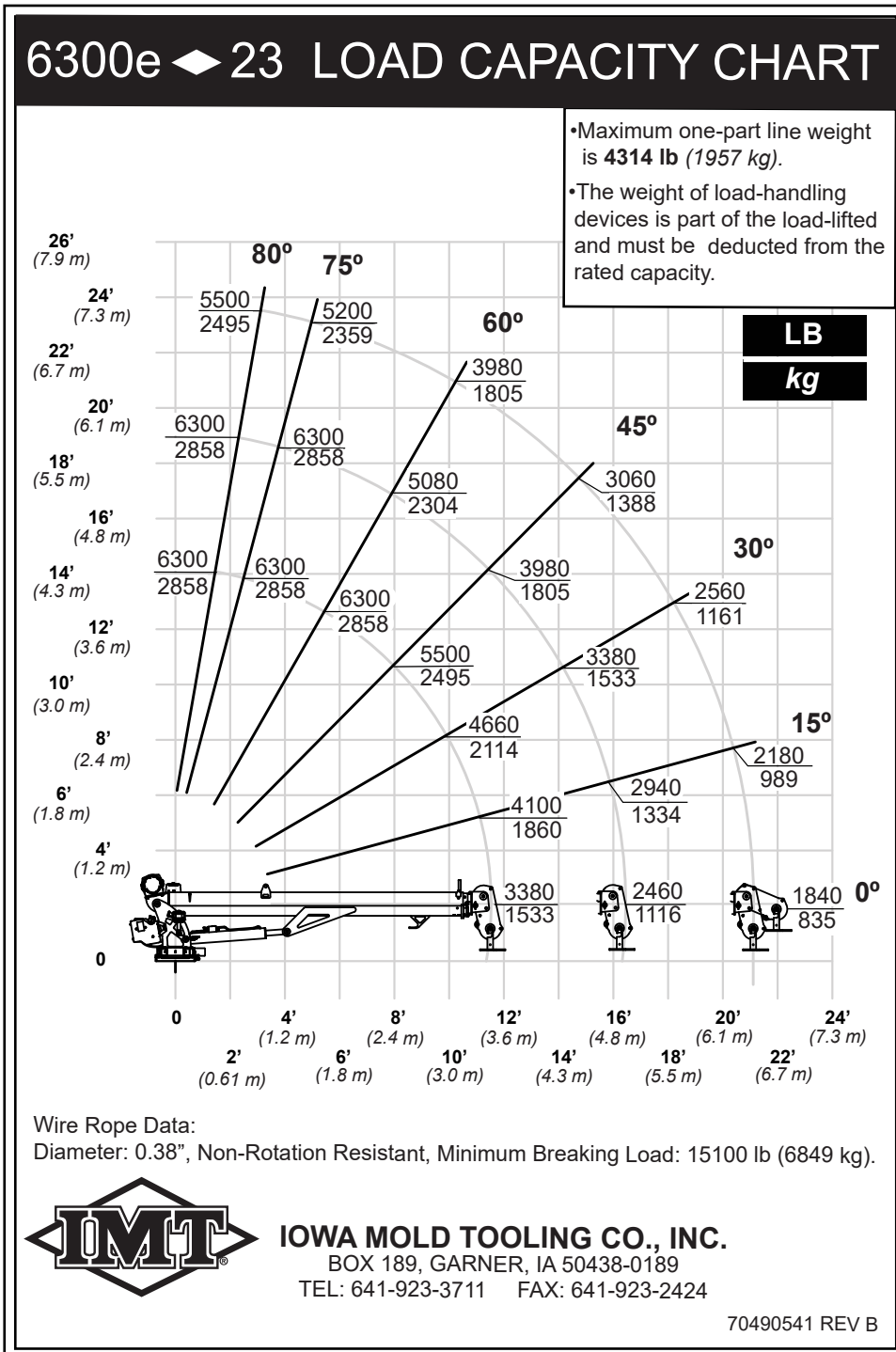
# Capacity Load Chart 5300e-23 (70490539)



# Capacity Load Chart 6300-23 (70490540)



# Capacity Load Chart 6300e-23 (70490541)



**Section - 4**

**Crane Installation**

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## **Installation Introduction**

### **GENERAL**

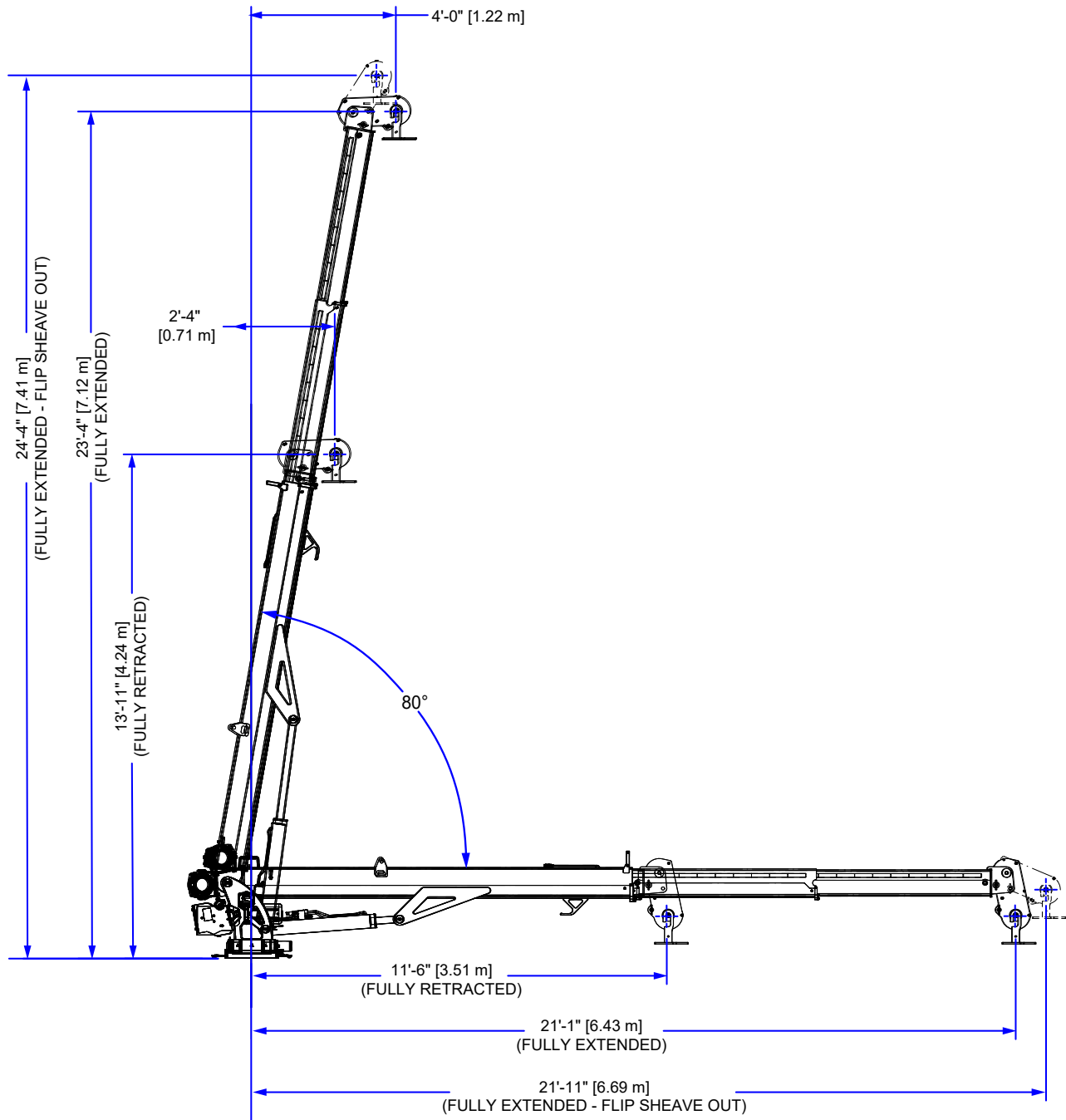
This section contains instructions for the installation of your crane. Prior to installing the crane and hydraulic components, make sure that the chassis is ready to receive the crane. Reinforce the chassis frame, as necessary, and install the PTO and pump.

Each installation may vary in components used. It is important to use hoses of proper length, pumps of correct size, and PTOs of adequate speed. Study the applicable installation kit in the parts section before attempting any installation.

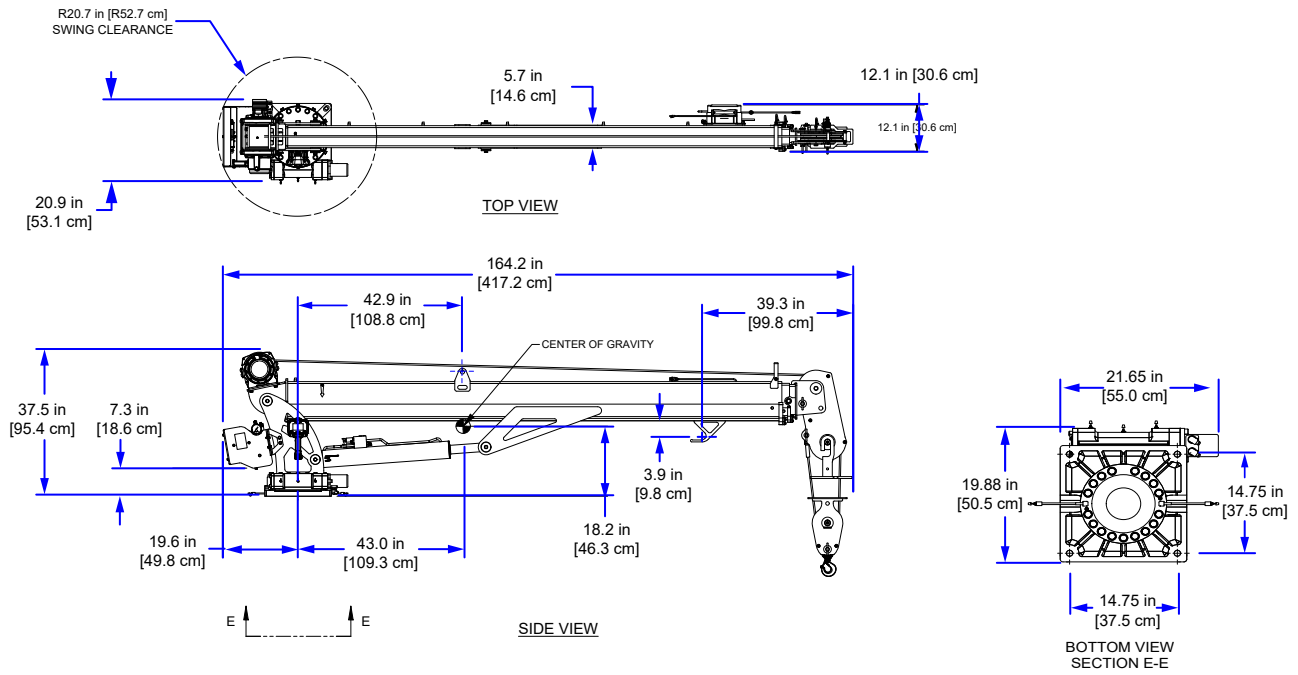
### **CRANE INSTALLATION**

In addition to meeting minimum chassis specifications, there must be sufficient room to mount the crane and the platform must be strong enough to support the crane and rated load. The body must be designed to sustain the forces imposed by the crane when lifting the full rated load. In addition, an IMT body is designed to take full advantage of the standard reservoir placement. This reservoir is installed in the cargo area of the body. Before attempting to install the crane, the body must be installed on the chassis.

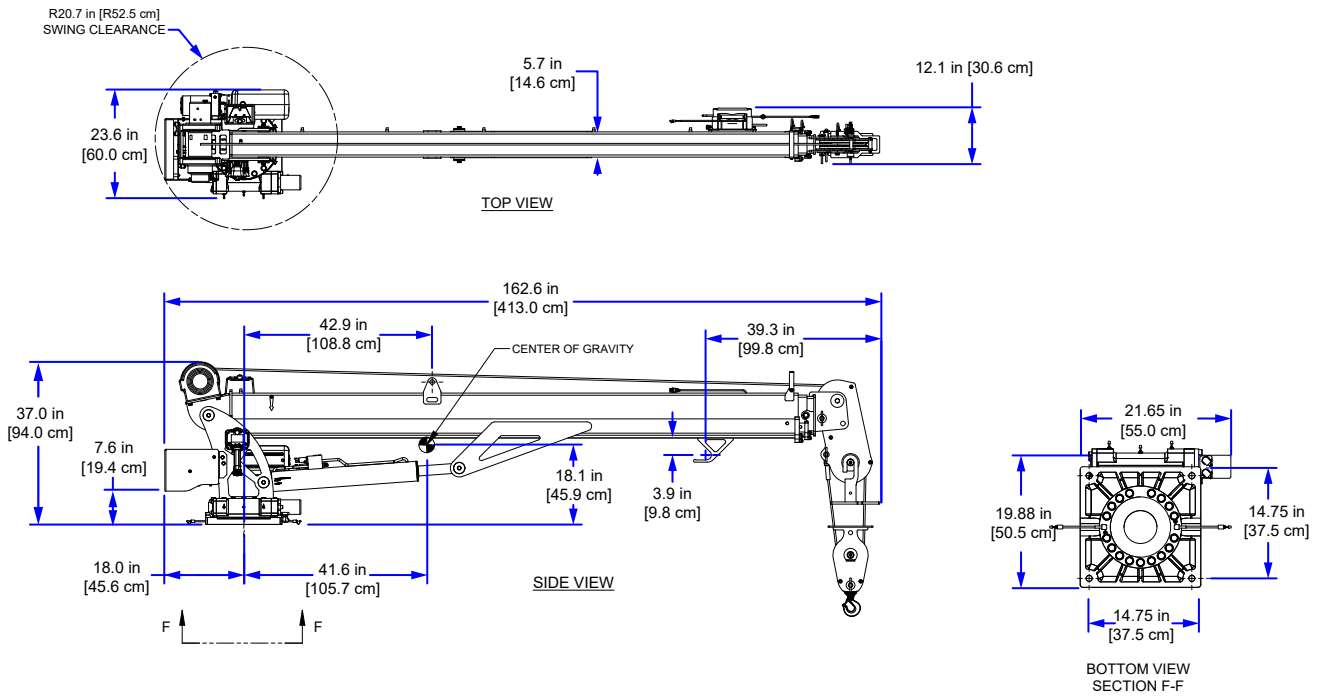
# Dimension Drawing ALL MODELS (99906940)



### Dimension Drawing 5300-23 & 6300-23 VIEW (99906940) CONTINUED



### Dimension Drawing 5300e-23 & 6300E-23 VIEW (99906940) CONTINUED



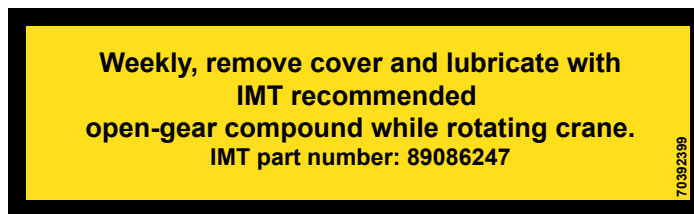
## Greasing Instructions

Different lubricants are required for different sections of your crane. Contact your lubricant supplier for specific product information. Follow the grease and lubricant specifications and intervals listed in this manual for best results.

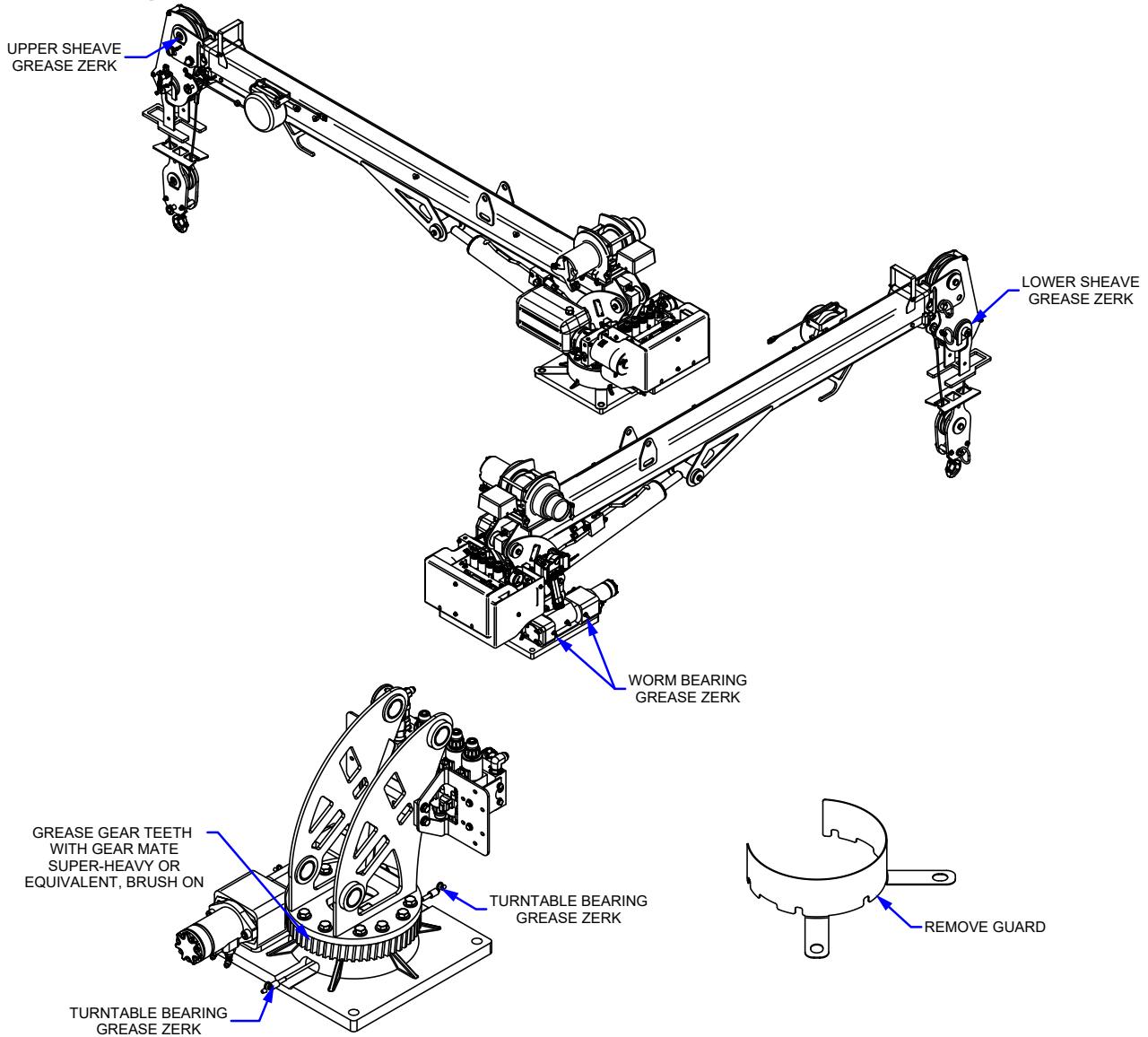
Crane grease zerks must be greased on a weekly basis during normal operating conditions. Under severe operating conditions the zerks must be greased more frequently. Each grease zerk is marked with a decal, "grease weekly", as shown. Rotate the worm gear bearing when greasing the worm gear bearing grease zerks.



Crane worm gear bearing teeth must be lubricated weekly with lubriplate GearMate super-heavy or equivalent, applied with a grease gun, caulk gun or brush. Cover all teeth and worm gears with grease and leave no exposed metal surfaces showing.



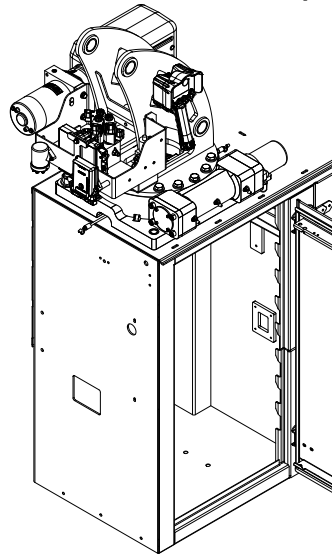
## Greasing Locations



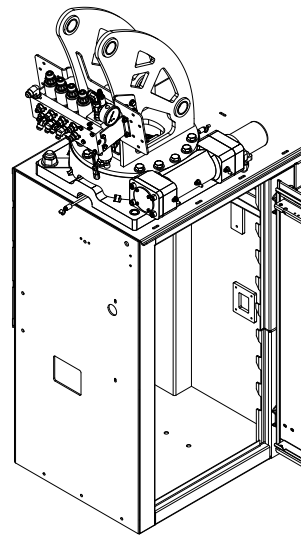
LOCATION	LUBRICANT	APPLICATION METHOD	FREQUENCY
BASE - TURNTABLE BEARING GREASE ZERKS	EXTREME PRESSURE LITHIUM GREASE SUCH AS: SHELL ALVANIA 2EP, SHELL RETINAX A, MOBILGREASE XHP 462, CENEX ML 365®, XTREME TRUE-FLO EP2 LITHIUM GREASE OR EQUIVALENT	APPLY WITH HAND OR PNEUMATIC PRESSURE GREASE GUN	WEEKLY
SNATCH BLOCK PIN			
WORM BEARINGS GREASE ZERKS (*ROTATE CRANE WHILE GREASING)			
LOWER SHEAVE			
UPPER SHEAVE			
GEAR TEETH	GEARMATE® SUPER HEAVY OR EQUIVALENT	BRUSH	WEEKLY
WORM GEAR	GEARMATE® SUPER HEAVY OR EQUIVALENT	APPLY WITH HAND OR PNEUMATIC PRESSURE GREASE GUN	

**NOTE:**  
UNIT IS FACTORY-FILLED WITH ISO 32 HYDRAULIC OIL.

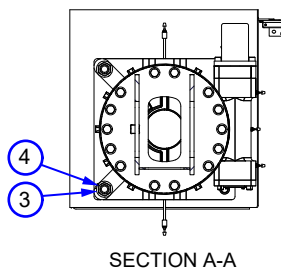
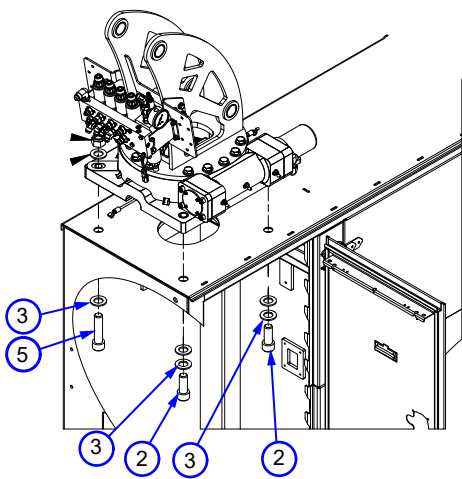
# Crane Installation ALL MODELS (99906982)



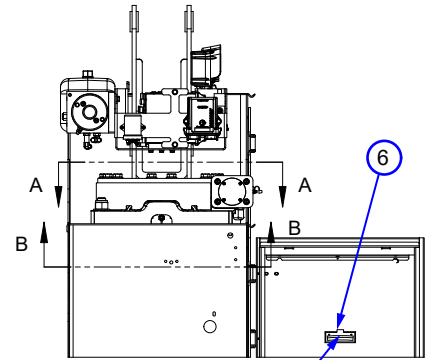
ELECTRIC CRANE BASE



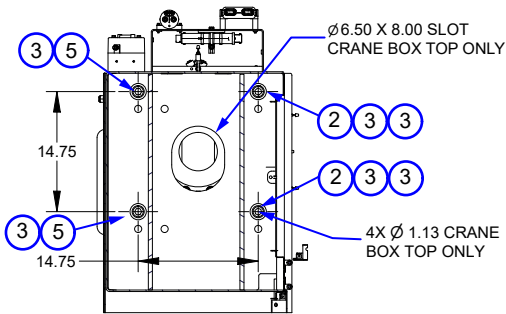
HYDRAULIC CRANE BASE



SECTION A-A



LEVEL INDICATOR INSTALLED PARALLEL TO DOOR REINFORCEMENTS



SECTION B-B

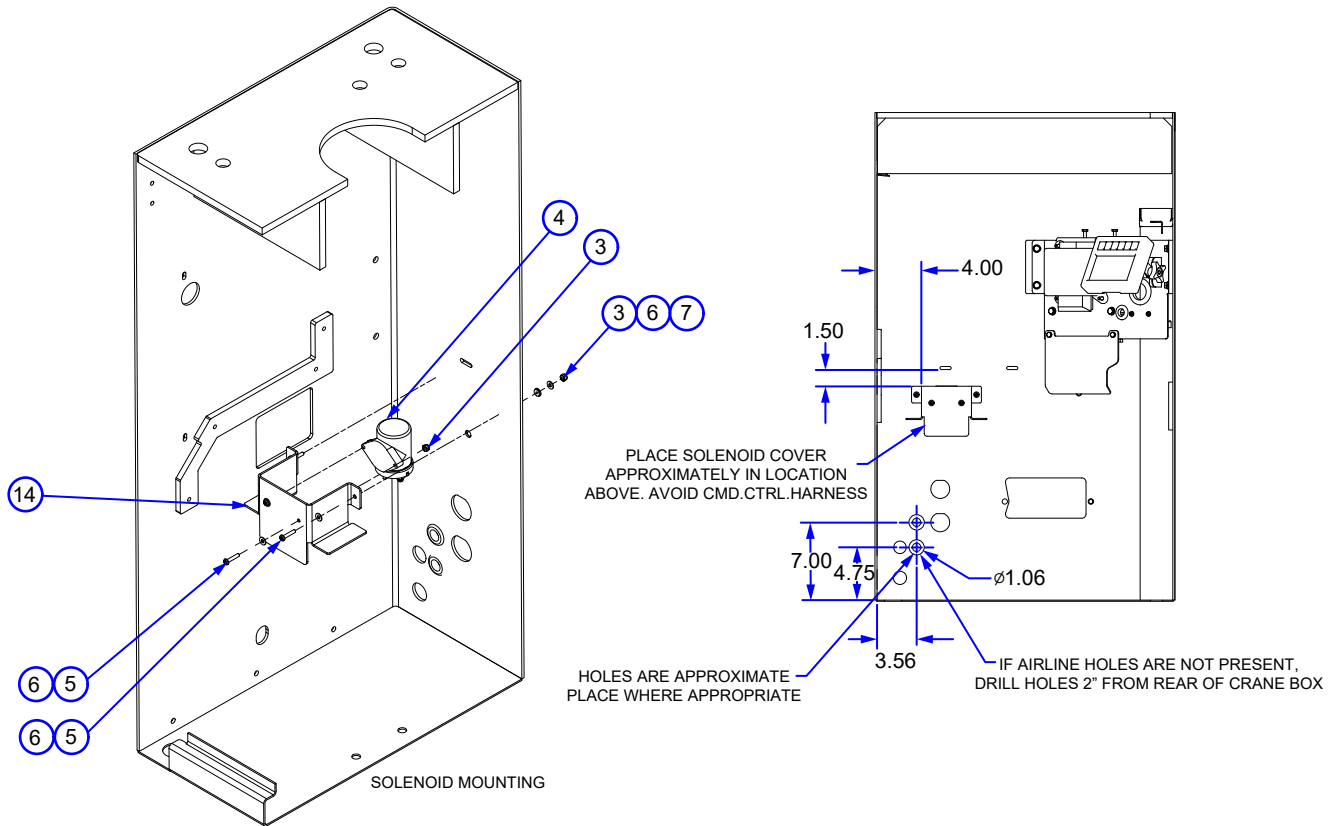
**NOTES**

1. THE BOLTS SUPPLIED ARE FOR USE WITH 1/2" THICK CRANE BOX TOP. IF CRANE BOX TOP IS NOT 1/2" THICK ADJUST BOLT LENGTH ACCORDINGLY. IF DIFFERENT LENGTH BOLTS ARE REQUIRED THEY MUST BE 1-8, GRADE 8, ZINC-PLATED, AND OF THE PROPER LENGTH. ENSURE BOLTS REACH THROUGH ROTATOR BASE WHEN INSTALLED.
2. TORQUE MOUNTING BOLTS TO 680 FT-LB.

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT
1.	93729004	INSTL-KIT 5300-6300 S5	1	
2.	72602151	CAP SCR 1.00- 8X 2.50 SH GR8	2	1
3.	72063066	WASHER 1.00 FLAT HI STR	8	1
4.	72062375	NUT 1.00- 8 HEX GR8 YZ NYLOCK	2	1
5.	72601816	CAP SCR 1.00- 8X 4.00 SH A574	2	1
6.	72042097	LEVEL INDICATOR BUBBLE LEVEL	1	1

REV. INITIAL RELEASE

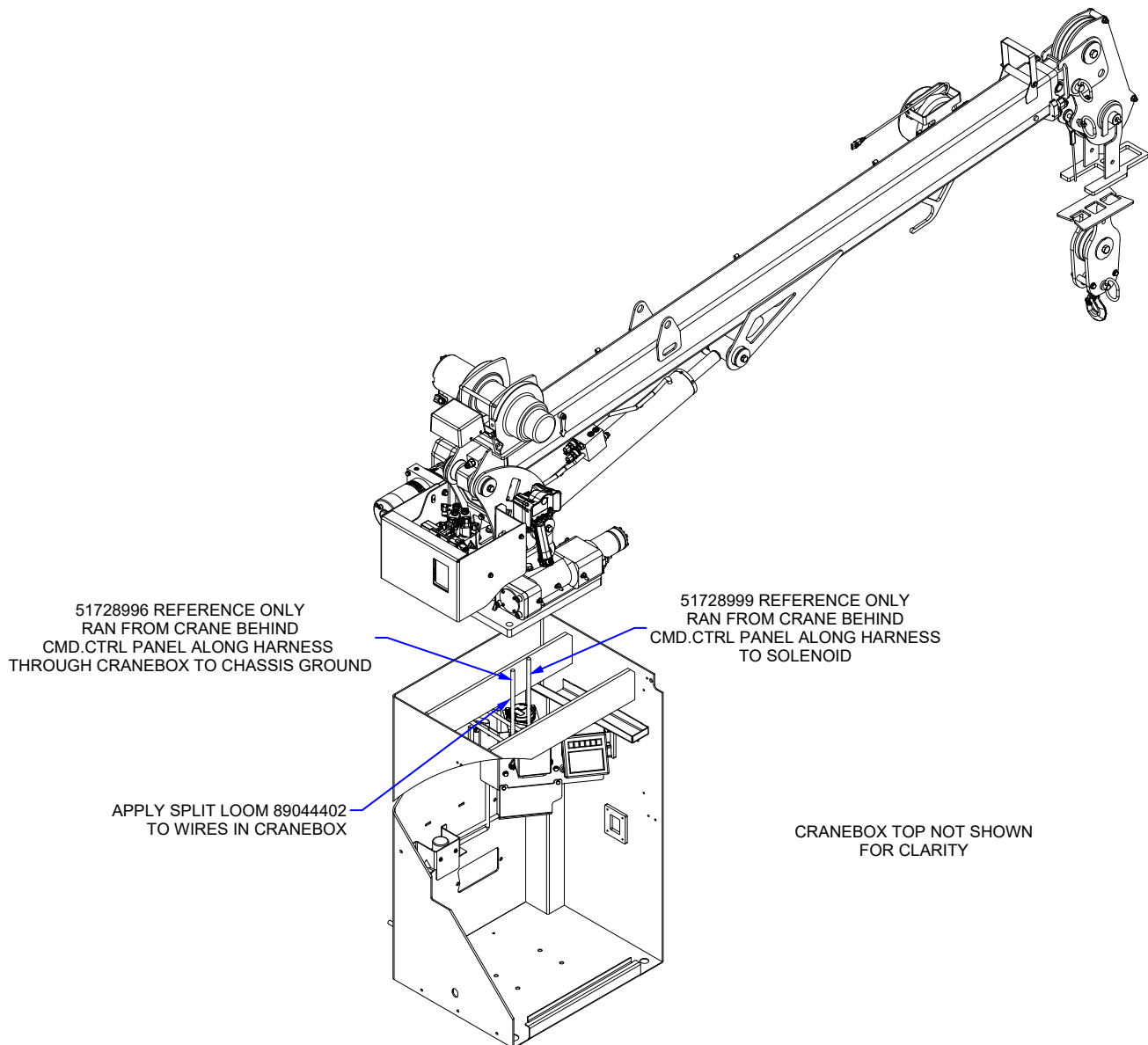
## Electric Crane Installation 5300e-23 & 6300e-23 (99907000)



**NOTES:**

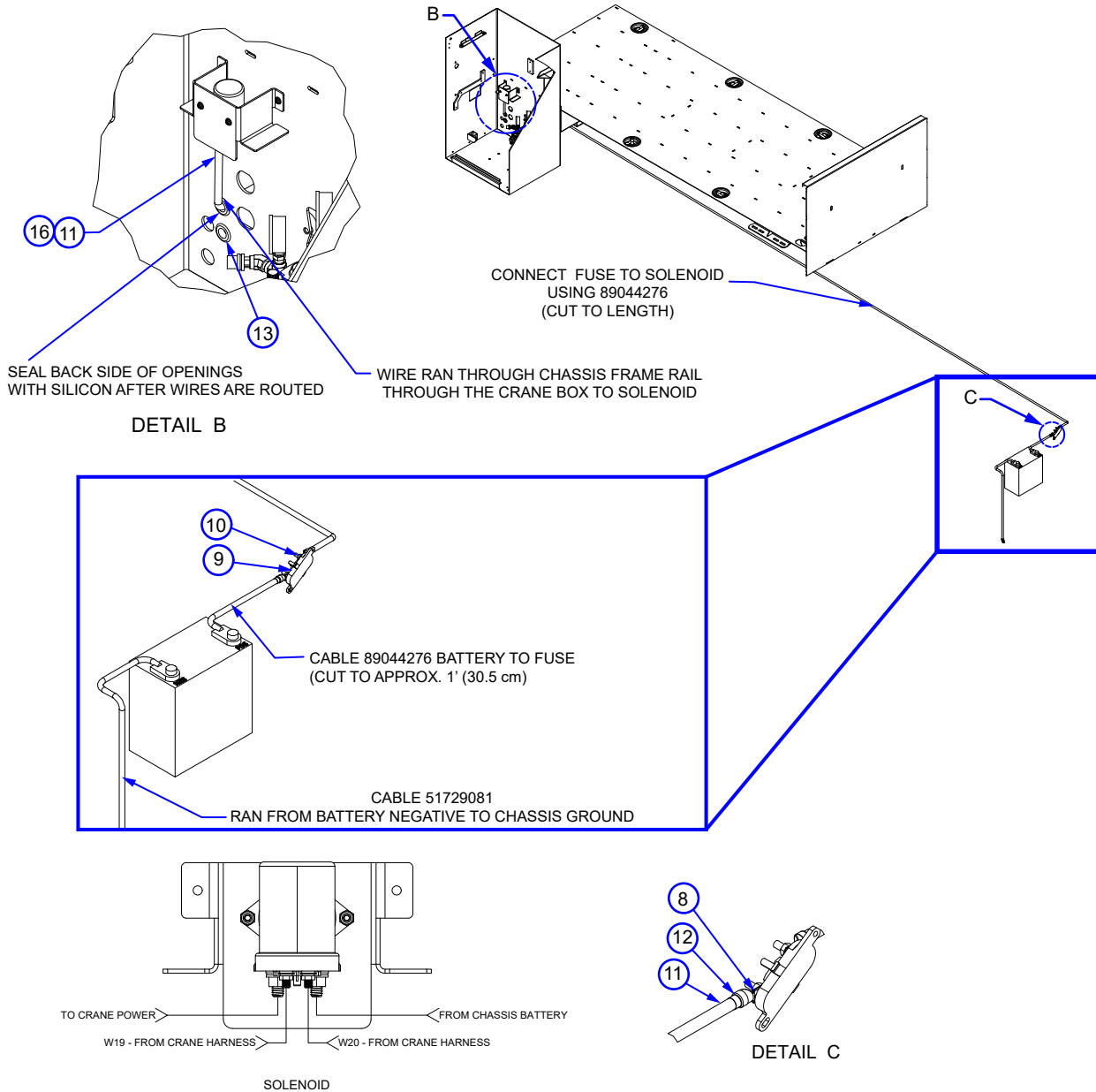
1. Pass power and ground wires through crane box wall using holes shown on PG 25 and grommet (item 15- 76391173)
2. Reference drawing 99906983 for wiring diagram.
3. Silicone grommet after installation

## Electric Crane Installation 5300e-23 & 6300e-23 (99907000)



1. After mounting your crane, wire the crane to the vehicle's 12VDC electrical system using the following steps.
2. Use the parts list above to identify parts. Your crane installation kit, 51729052, includes a 35' (10.7 m) long cable, IMT # 89044276 (item #21 in the parts list). Approximately 25' (7.6 m) of this cable is required to connect the crane solenoid to the vehicle battery, and the rest of the cable is used for ground connections between the crane, vehicle battery, and chassis ground. Cut the cable to length after determining the lengths required.
3. Ground the crane by connecting the crane ground cable to bare metal on the chassis.
4. Connect the crane power cable from the male power cable connector to the solenoid. Connect cable (item #21- 89044276), cut to length, from the crane solenoid (item #4) to the fuse. Use 5/16" (0.95 cm) ring terminal (item #16 - 77040529) for each connection. Heat shrink the connections (item #22 - 89392333).

**Electric Crane Installation 5300e-23 & 6300e-23 (99907000)**



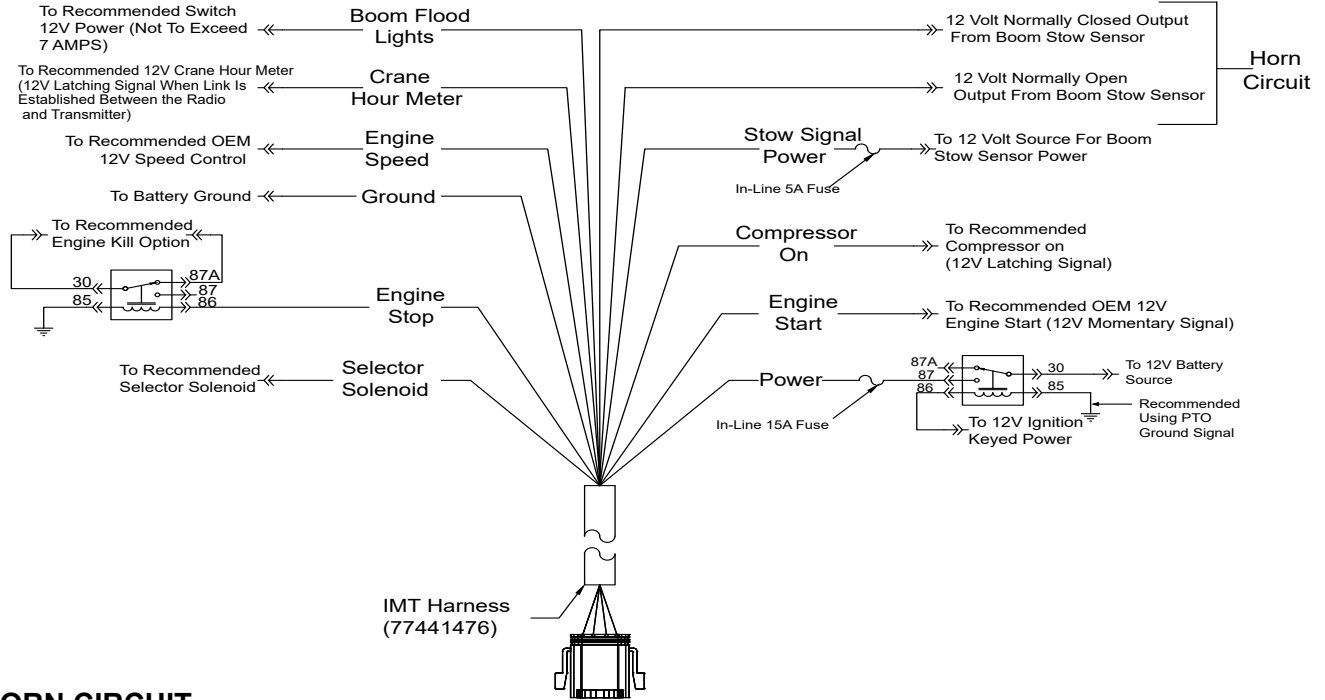
5. Connect one end of the ground cable (item #3 - 51729081) to the negative terminal on the vehicle battery, and the other end to bare metal on the chassis.
6. Mount the 225-amp fuse holder (item #19) close to the vehicle battery in a location which can be easily accessed if the fuse needs to be replaced. Use approximately one foot (30.5 cm) of cable (item #21) to connect the positive terminal on the vehicle batteries to the fuse holders. Connect the other end of the fuse holder to the solenoid through the hole shown on page 25 using a 5/16" (0.79 cm) ring terminal and (item #16 - 77040529). Heat shrink connections. Cables connect to the fuse holders using 5/16" (0.79 cm) ring terminals (item #16 - 77040529). Heat shrink connections.

**Electric Crane Installation 5300e-23 & 6300e-23 (99907000) PARTS LIST**

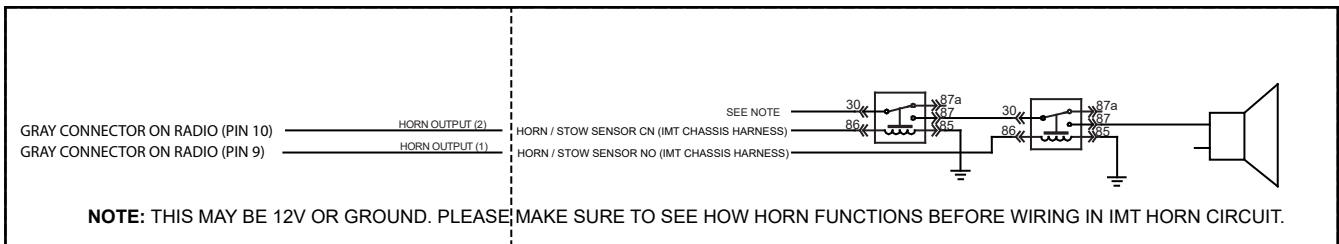
ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT
1.	51729052	KIT - DS5-ELEC CRANE BODY INSTALLATION	1	1
2.	51729083	KIT-HRDW S5 ELEC CRANE INSTALL	1	2
3.	51729081	CABLE ASM-2GA 5/16RNGX5/16RNGX65LG R0	1	1
4.	60148020	COVER-SOLENOID	1	1
5.	72060002	CAP SCR .25-20X .75 HH GR5 Z	1	2
6.	72060634	SCR-MACH #10-24X .50 RDH	1	2
7.	72062000	NUT .25-20 HEX	1	2
8.	72062106	NUT 10-24 HEX NYLOCK	1	2
9.	72062123	NUT-SS #10-24 NYLOC	4	2
10.	72062382	WASHER-BONDED .19 PLTD	2	2
11.	72063001	WASHER .25 FLAT	2	2
12.	72063181	WASHER-FLAT #10 WRT TYPE 304SS	6	2
13.	72601552	SCR-MACH #10-24X 1.00 TRH PHH SS	2	2
14.	76391173	GROMMET-RUBBER .75 ATL20 2567	2	2
15.	77040529	TERM-RING NI .31 STUD 1-2 WIRE	4	1
16.	77040839	SOLENOID 500 AMP 12VDC TE SIDE MOUNT	1	1
17.	77040901	TERM-RING NI .31 STUD 1 WIRE 90DEG	1	2
18.	77441116	FUSE HOLDER-HIGH AMP2 BOLT WITH COVER	1	2
19.	77441219	FUSE-AMG-225 AMP	1	2
20.	89044276	CABLE-# 1 WELDING PRESTOL	35 FT	1
21.	89392333	TUBE-HEAT SHRINK AMP 603328-20	0.50FT	1
REV. INITIAL RELEASE				

# Chassis Wiring Harness (77441476 / 99905212)

## ADDITIONAL INSTALLATION COMPONENTS, NON-IMT BODY (93713748)



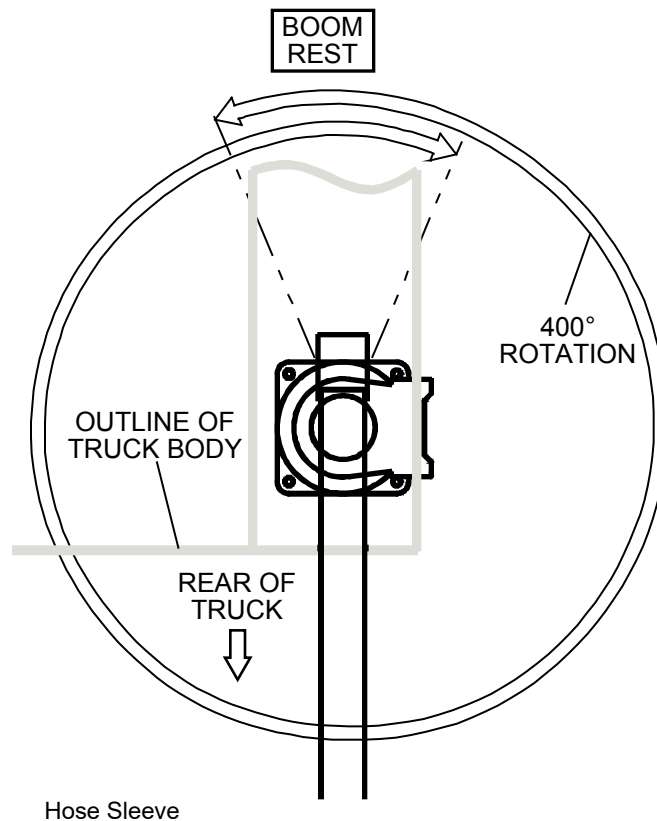
### HORN CIRCUIT



## Telescopic Crane Orientation

When an IMT telescopic crane is not factory-installed on a body, the crane is packed with the boom oriented as it is built on a test stand to facilitate handling. Install the crane on the body with boom pointing backward. Once the crane is bolted down, it can be rotated 180° to the boom rest.

For cranes that are not factory-installed, a protective hose sleeve is pre-installed. After the crane has been installed, rotated, and placed in the boom support, verify that the hose sleeve did not shift during shipping or installation and that it adequately protects the hoses from contact with the mast, rotator, and crane box edges during rotation.



Hose Sleeve



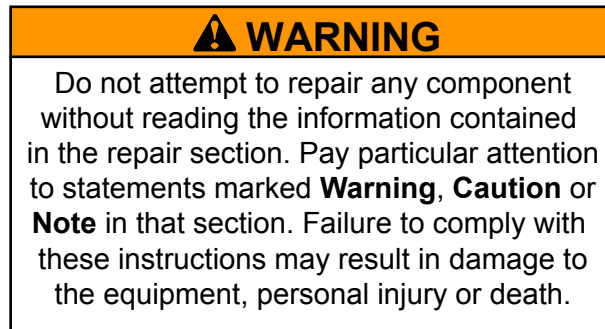
Photo taken looking up from the crane box. Image is for illustrative purposes only, actual crane installation may vary. The pressure, return, and rotation hoses are wrapped in the hose sleeve.

**Section - 5** **Parts**

## Parts Information

### GENERAL

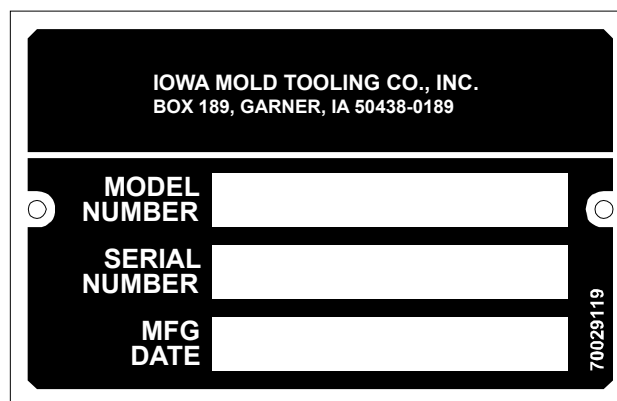
This section contains the exploded parts drawings and accompanying parts lists for the assemblies used on this crane. These drawings are intended to be used in conjunction with the instructions found in the maintenance and repair manuals for this crane family.



### CRANE IDENTIFICATION

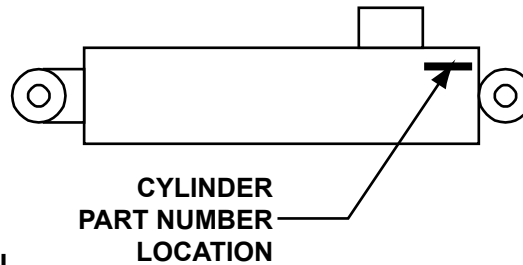
Every IMT crane has an identification placard (see figure below). This placard is attached to the inner boom, mast, or crane base. When ordering parts, communicating warranty information, or referring to the unit in correspondence, always include the serial number and model numbers. Address all inquiries to your authorized IMT distributor or to:

**Iowa Mold Tooling Co., Inc.**  
**Box 189, Garner, IA 50438-0189**  
**Telephone: 800-554-4421**



### CYLINDER IDENTIFICATION

To insure proper replacement parts are received, it is necessary to specify the complete number/letter sequence for any part requested. Part numbers may be cross checked by comparing the stamped identification on the cylinder case (See figure below) against the information contained in the service manual. You must include the part number stamped on the cylinder case when ordering parts.



### WELDMENT IDENTIFICATION

Contact IMT Technical Support prior to replacing any major weldment.

### ORDERING REPAIR PARTS

When ordering replacement parts:

1. Give the model number of the unit.
2. Give the serial number of the unit.
3. Specify the complete part number. When ordering cylinder parts always give the stamped part number.
4. Give a complete description of the part
5. Specify the quantity required.

## Crane Recommended Spare Parts List

This parts list is intended to provide the user with a stock of parts sufficient to keep the unit operating with the minimal down-time waiting for parts, but it does not indicate these items will fail within a year. In addition, there may be parts failures not covered by this list. Parts not listed are considered as not being normal wear items during the first year of operations.

### 5300-23 & 6300-23 PARTS LIST

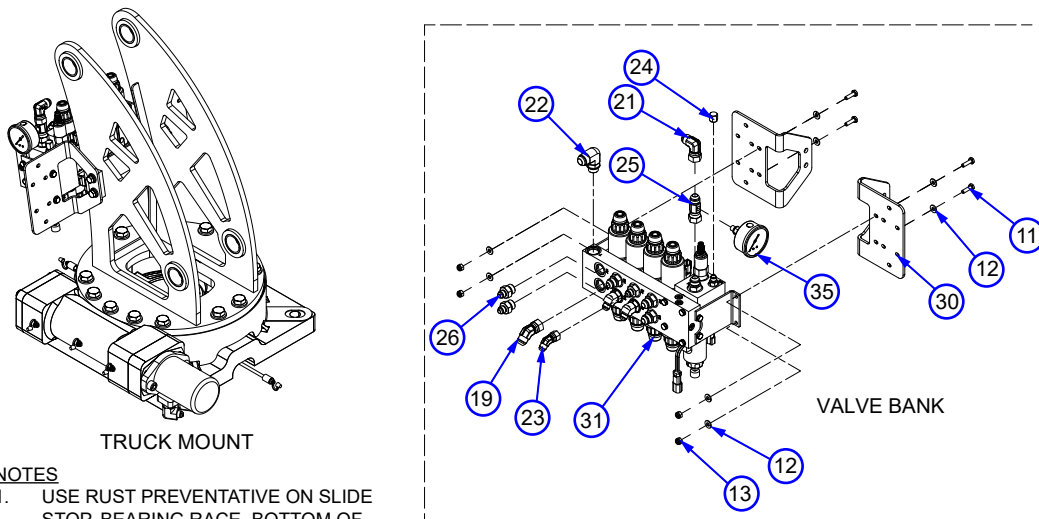
<b>BASE &amp; MAST(99906935)</b>		
<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4
76039295	GASKET-GEA19 008-10056-1SAME AS 76395075	1
<b>VALVE BANK</b>		
73540397	VALVE-BRAKE RELEASE SOLENOID	1
73540256	COIL-S SERIES FOR 73540397 12VDC DEUTSCH	1
73540252	VALVE-CART-P FLOW CTRL 12 VDC W MNL OVRD	1
73540253	COIL-FOR 73540252 12VDC DEUTSCH	1
73540396	RELIEF VALVE-FOR 73734472 @ 3200 PSI	1
73540750	VALVE-D03 4W/3P DANFOSS	4
77411056	COIL-D03 FOR 73540750	2
<b>BOOM ASSEMBLY (99906937)</b>		
70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	2
70034580	BEARING MRP 1.50X1.75X1.50 POLYGON	2
77041863	SWITCH-LIMIT DT04-4P CONN	1
51728824	CORD REEL ASM 13.00" W/PACKARD CON 3WIRE (5300-23 ONLY)	1
77040823	CORD REEL ASM- SENSING CMD.CTRL (6300-23 ONLY)	1
<b>RIGGING COMPONENTS (99906940)</b>		
70580230	WIRE ROPE ASM-GALV.38(6X25)X85ft XIPS	1
60030613	SHEAVE- 8.00 POLYMER	1
60030134	SHEAVE- 8.00 POLYMER	2
51728095	LATCH KIT - 5 TON YOKE, 8-P801-EE	1
70735099	HOOK-SWVL BBRG 5TON W/LATCH	1
<b>LOWER CYLINDER (51729069)</b>		
94490606	SEAL KIT - 51729069	1
77040910	TRANSDUCER-HYD 0-5000PSI 4-20mA MH4	2
73540490	VALVE-CBAL SUN CBBB-LAN 3300 PSI	1
<b>EXTENSION CYLINDER (51729067)</b>		
94490620	SEAL KIT - 51729067	1
73540751	VALVE-CBAL SUN CBBG-LJN 4000PSI	1
<b>RADIO REMOTE CONTROL</b>		
70735198	TRANSM-RAD CMD.CTRL W/ LCD	1
71415460	MAGNET-TELE RAD REM TRANS W SCREW CERVIS	1
77040857	BUTTON E-STOP S4 REMOTE	1
77040858	HOLDER BATTERY S4 REMOTE	1
77040860	SWITCH TOGGLE S4 REMOTE	1

77040861	CAP M12 TETHER S4 REMOTE	1
77040859	CAP BATTERY S4 REMOTE	1

### 5300e-23 & 6300e-23 PARTS LIST

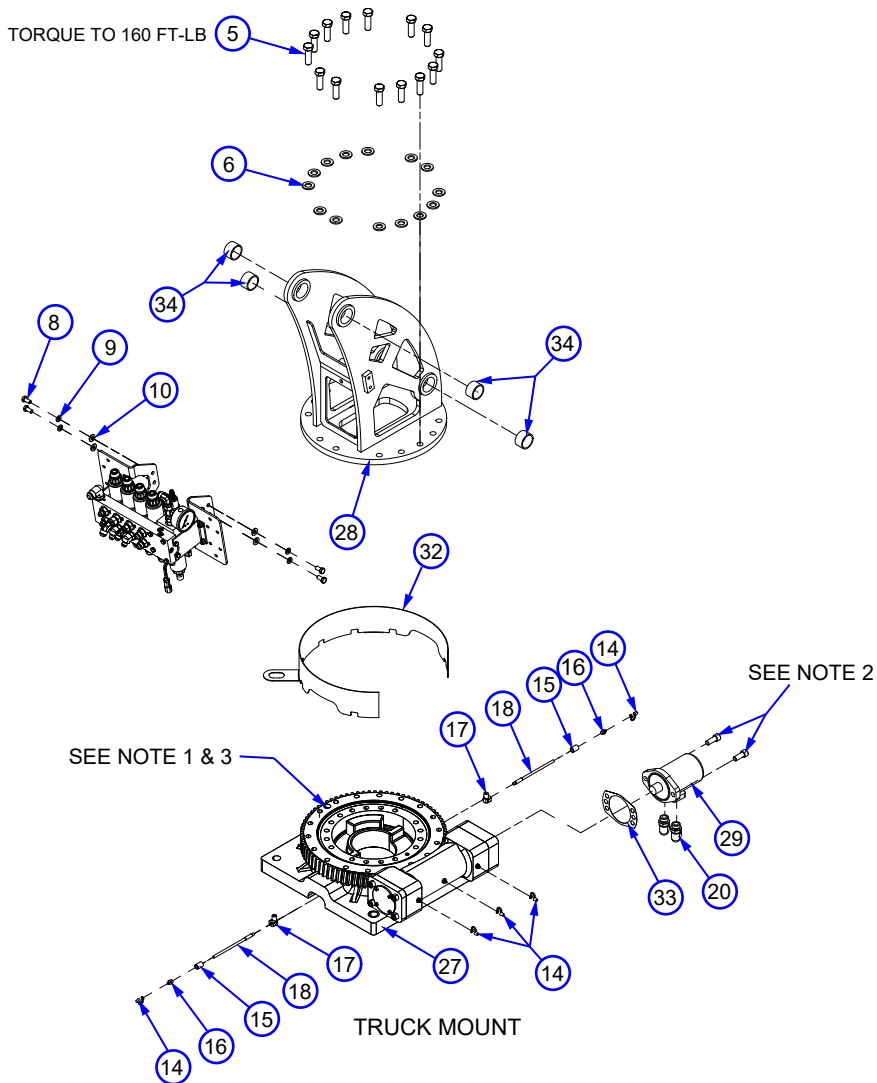
<b>BASE &amp; MAST(99906952)</b>		
<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
70034595	BEARING MRP 1.50X1.75X1.25 POLYGON	4
76039295	GASKET-GEA19 008-10056-1	1
<b>VALVE BANK (73735269)</b>		
73540706	VALVE MANIFOLD-12203002-C05	1
73540704	VALVE-3P4W SV08-34-04-00-00-B-00 NO COIL	3
77411036	COIL-M13-12D-20W-DE	6
<b>BOOM ASSEMBLY (99906937)</b>		
70034580	BEARING MRP 1.50X1.75X1.50 POLYGON	2
70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	2
77041863	SWITCH-LIMIT DT04-4P CONN(*SEE NOTES*)	1
51728824	CORD REEL ASM 13.00" W/PACKARD CON 3WIRE	1
<b>RIGGING COMPONENTS (99906940)</b>		
70580230	WIRE ROPE ASM-GALV.38(6X25)X85ft XIPS	1
60030613	SHEAVE- 8.00 POLYMER	1
60030134	SHEAVE- 8.00 POLYMER	2
51728095	LATCH KIT - 5 TON YOKE, 8-P801-EE	1
70735099	HOOK-SWVL BBRG 5TON W/LATCH	1
<b>LOWER CYLINDER ( 51729069)</b>		
94490606	SEAL KIT - 51729069	1
77040910	TRANSDUCER-HYD 0-5000PSI 4-20mA MH4	2
73540490	VALVE-CBAL SUN CBBB-LAN 3300 PSI	1
<b>EXTENSION CYLINDER (51729067)</b>		
94490620	SEAL KIT - 51729067	1
73540751	VALVE-CBAL SUN CBBG-LJN 4000PSI	1
<b>HOIST (71570923)</b>		
77041936	CONTACTOR-WINCH 12V DC3000	1
<b>RADIO REMOTE CONTROL</b>		
70735198	TRANSM-RAD W/ LCD CMD.CTRL	1
71415460	MAGNET-TELE RAD REM TRANS W SCREW CERVIS	1
77040857	BUTTON E-STOP S4 REMOTE	1
77040858	HOLDER BATTERY S4 REMOTE	1
77040860	SWITCH TOGGLE S4 REMOTE	1
77040861	CAP M12 TETHER S4 REMOTE	1
77040859	CAP BATTERY S4 REMOTE	1

# Hydraulic Base Assembly 5300-23 & 6300-23 (99906935)



**NOTES**

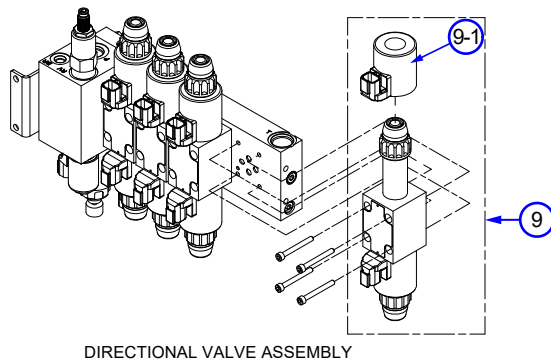
1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST, TOP OF GEAR BEARING
2. APPLY BLUE THREADLOCKER
3. APPLY GEAR LUBE ON GEAR TEETH



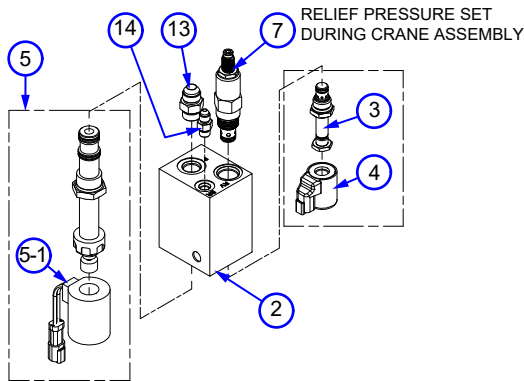
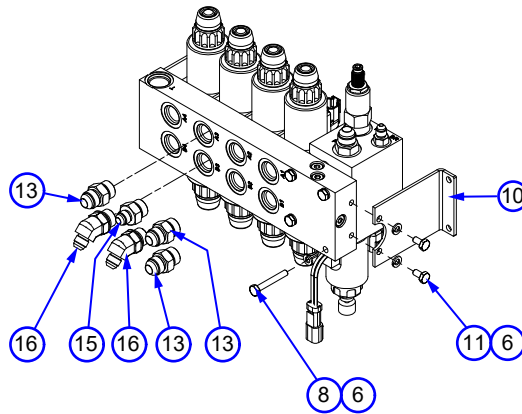
**Hydraulic Base Assembly (99906935) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728820	KIT-HRDW BASE ASM 5300-6300	1	
2	51728816	KIT-HRDW VALVE BANK ASM 3300-12600	1	
3	51728838	KIT-GREASE 3300-6300	1	
4	91728812	KIT-HYD BASE ASM 5300-6300	1	
5	72060151	CAP SCR .62-11X 2.00 HH GR8 Z	14	1
6	72063119	WASHER .62 FLAT ASTM F436	14	1
7	72601949	CAP SCR .50-13X 1.25 SH ZC	2	1
8	72060044	CAP SCR .38-16X .75 HH GR5 Z	4	2
9	72063051	WASHER .38 LOCK	4	2
10	72063003	WASHER .38 FLAT	4	2
11	72060003	CAP SCR .25-20X .88 HH GR5 Z	4	2
12	72063001	WASHER .25 FLAT	8	2
13	72062104	NUT .25-20 HEX NYLOCK	4	2
14	70034382	CAP-GREASE PRO20 GC-RED	5	3
15	72053301	COUPLING-GLV .12 SCH 40	2	3
16	72053508	ZERK-NPT .12	2	3
17	72053589	ELBOW-STREET BRS .12 X 90 DEG	2	3
18	51490385	HOSE-AA .13 X 4.50 (2-2) 100R17	2	3
19	72532670	ELBOW-M JIC/45/F JIC 8 8	1	4
20	72533331	ELBOW-M STR/90/M JIC 10 6	2	4
21	72532658	ELBOW-M JIC/90/F JIC SW 8 8	1	4
22	72533507	ELBOW-M STR/90/M JIC 8 10	1	4
23	72534401	ELBOW-M JIC/45/F JIC 6 6	1	4
24	72532674	CAP-JIC STL 4 ( .44 THD)	1	4
25	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1	4
26	72532356	ADPTR-M STR/M JIC 8 6	2	4
27	71056705	GEAR ROTATOR 5000/6000	1	
28	52728738	WLDMT-MAST 5000-6000 S5	1	
29	73051919	MOTOR-HYD (101-2638-009)	1	
30	60147812	BRKT-MAST VB 3300-6300	2	
31	73735318	VALVE-TELE CRN 4-FUNCTION D03 12V	1	
32	60146052	SHROUD-TURNTABLE GEAR 5000/6000	1	
33	76039295	GASKET-GEA19 008-10056-1	1	
34	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4	
35	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1	
REV. INITIAL RELEASE				

# Hydraulic Valve Bank 5300-23 & 6300-23 (73735318)



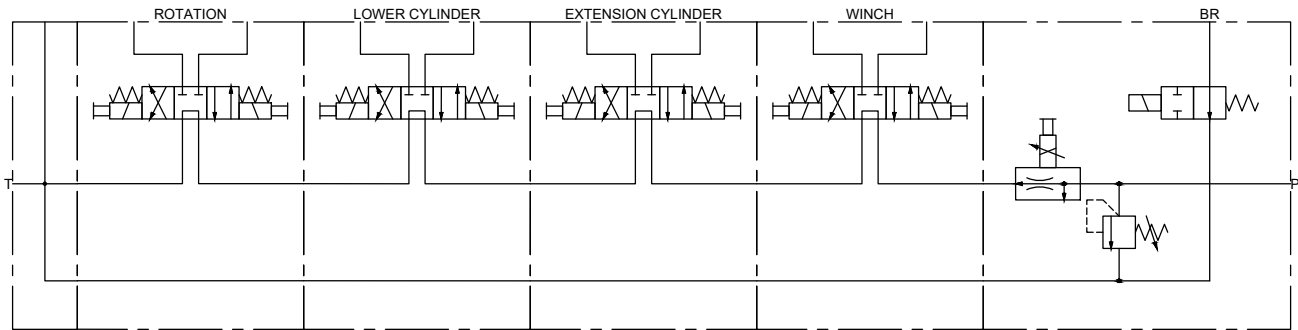
DIRECTIONAL VALVE ASSEMBLY



INLET MANIFOLD ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	71417491	MANIFOLD-73735318 SUBPLATE	1
2	71417492	MANIFOLD-73735318 INLET	1
3	73540397	VALVE-BRAKE RELEASE SOLENOID	1
4	73540256	COIL-S SERIES FOR 73540397 12VDC DEUTSCH	1
5	73540252	VALVE-CART-P FLOW CTRL 12 VDC W MNL OVRD	1
5-1	73540252	VALVE-CART-P FLOW CTRL 12 VDC W MNL OVRD	1
5-2	73540253	COIL-FOR 73540252 12VDC DEUTSCH	1
6	72063049	WASHER .25 LOCK	8
7	73540396	RELIEF VALVE-FOR 73734472 @ 3200 PSI	1
8	72060007	CAP SCR .25-20X 1.75 HH GR5 Z	4
9	73540750	VALVE-D03 4W/3P DANFOSS	4
9-1	77411056	COIL-D03 FOR 73540750	2
10	71417501	BRKT-73735318 VALVE BANK	2
11	72060000	CAP SCR .25-20X .50 HH GR5 Z	4
12	72534560	PLUG-STR SOC HD STL 4 ZERO LEAK	5
13	72532358	ADPTR-MSTR/MJIC #8 #8	4
14	72532351	ADPTR-M STR/M JIC 4 4	1
15	72532356	ADPTR-M STR/M JIC 8 6	1
16	72533583	ELBOW-M STR/45/M JIC 8 6	2
REV. A CN1340 20220526			

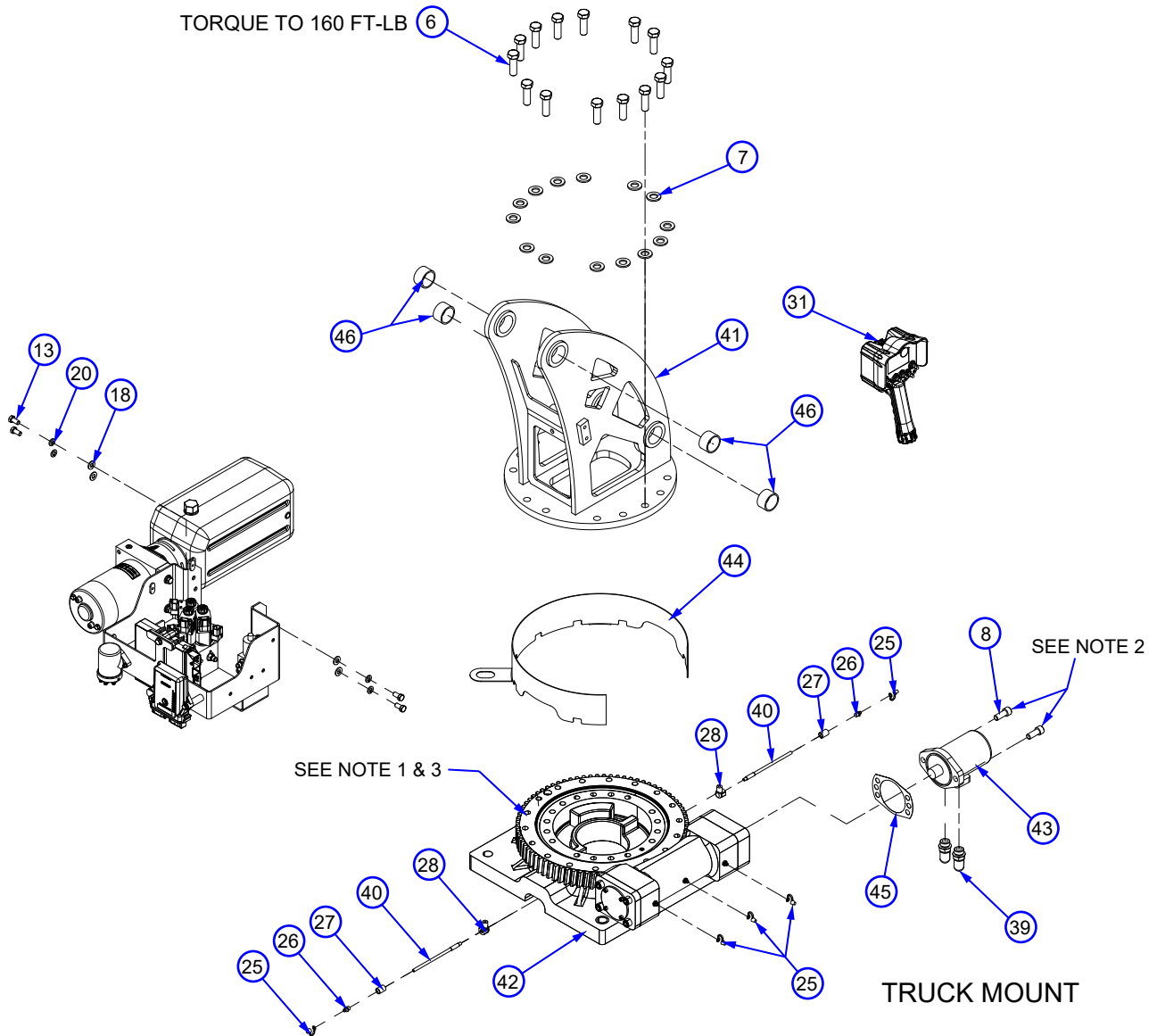
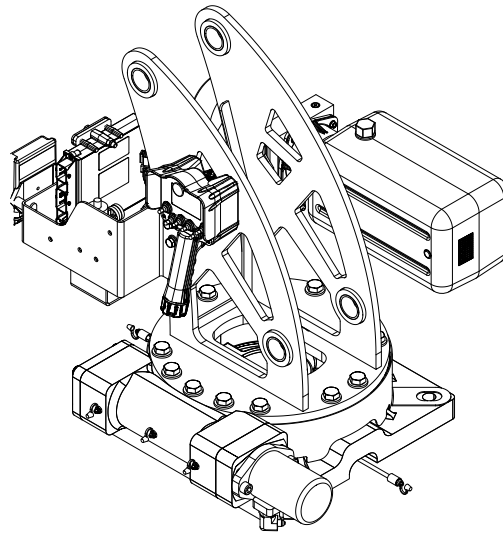
**HYDRAULIC VALVE BANK, ALL MODELS (73735318) CONTINUED**



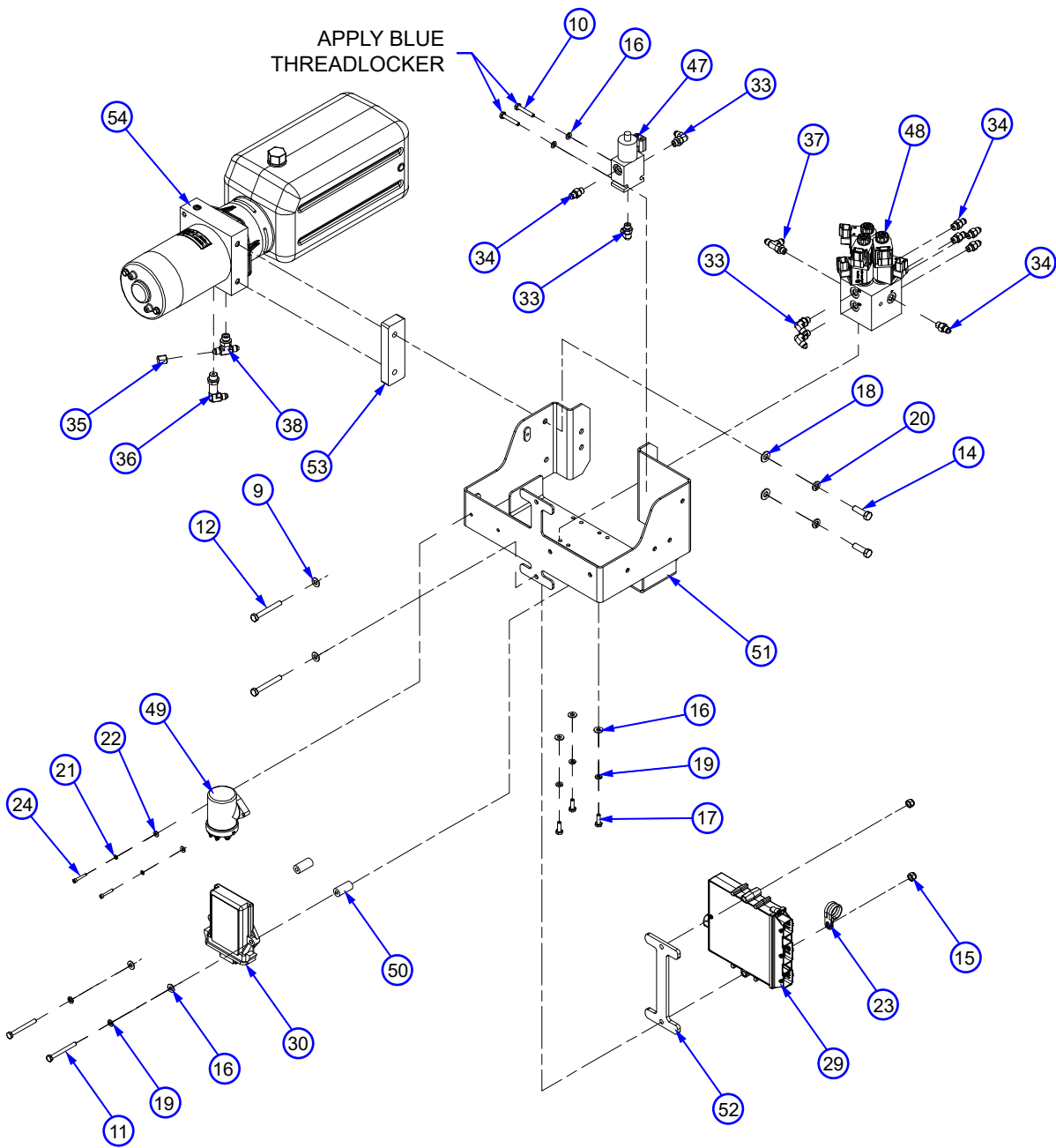
# Electric Base Assembly 5300e-23 & 6300e-23 (99906952)

**NOTES**

1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST, TOP OF GEAR BEARING
2. APPLY BLUE THREADLOCKER
3. APPLY GEAR LUBE ON GEAR TEETH



**ELECTRIC BASE ASSEMBLY 5300e-23 & 6300e-23 (99906952) CONTINUED**



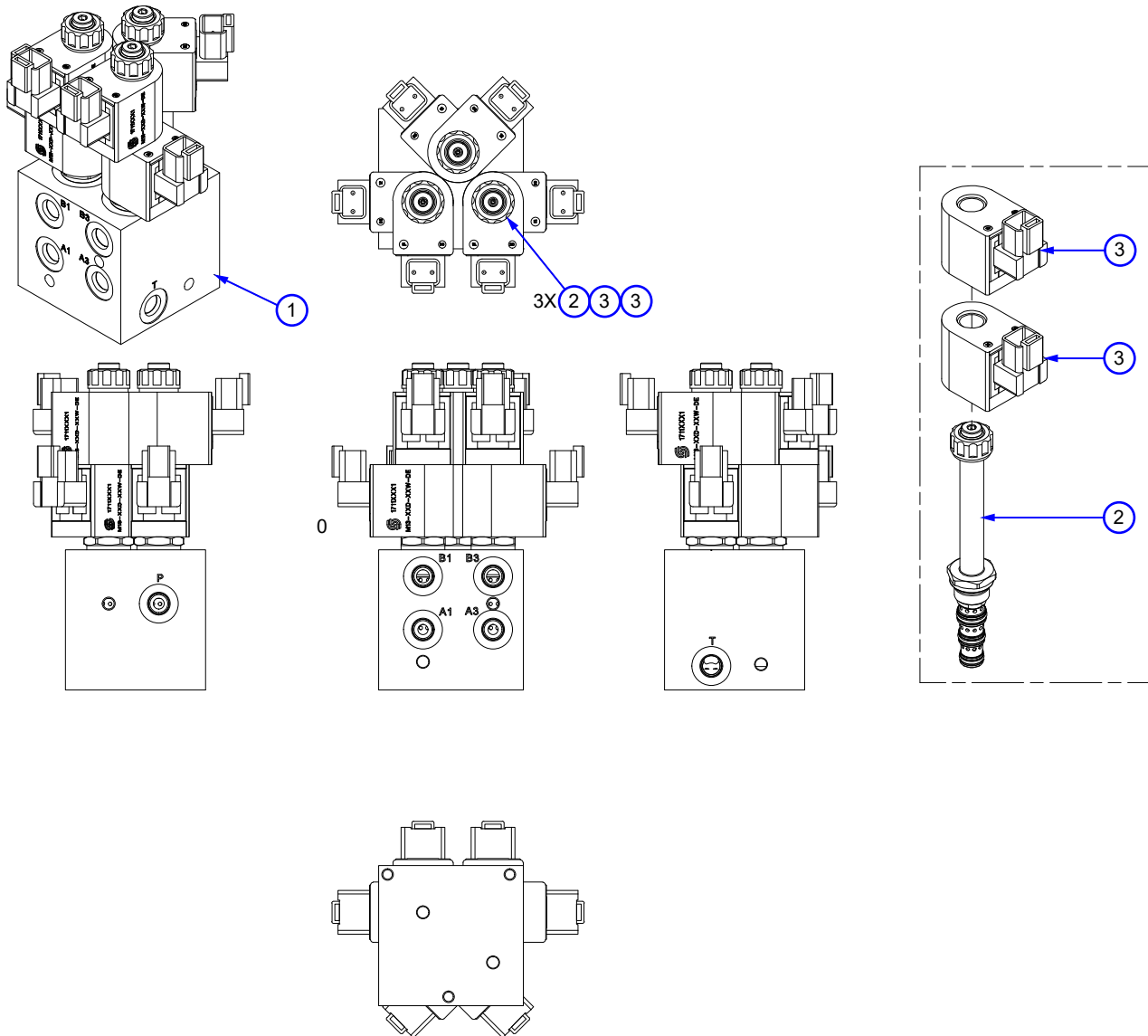
**POWER UNIT ASSEMBLY**

**Electric Base Assembly 5300e-23 & 6300e-23 (99906952) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728820	KIT-HRDW BASE ASM 5300-6300	1	
2	51728821	KIT-HRDW VALVE BANK ASM 3300E-6300E	1	
3	51728838	KIT-GREASE 3300-6300	2	
4	51728908	KIT-ELEC SP CRANE CMD. CTRL 3300E-6300E	1	
5	91728865	KIT-HYD BASE ASM 5300E-6300E	1	
6	72060151	CAP SCR .62-11X 2.00 HH GR8 Z	14	1
7	72063119	WASHER .62 FLAT ASTM F436	14	1
8	72601949	CAP SCR .50-13X 1.25 SH ZC	2	1
9	72063002	WASHER .31 FLAT	2	2
10	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	2	2
11	72060010	CAP SCR .25-20X 2.50 HH GR5 Z	2	2
12	72060031	CAP SCR .31-18X 2.50 HH GR5 Z	2	2
13	72060044	CAP SCR .38-16X .75 HH GR5 Z	4	2
14	72060048	CAP SCR .38-16X 1.50 HH GR5 Z	2	2
15	72062109	NUT .31-18 HEX NYLOCK	2	2
16	72063001	WASHER .25 FLAT	7	2
17	72060002	CAP SCR .25-20X .75 HH GR5 Z	3	2
18	72063003	WASHER .38 FLAT	6	2
19	72063049	WASHER .25 LOCK	5	2
20	72063051	WASHER .38 LOCK	6	2
21	72063239	WASHER # 8 LOCK	2	2
22	72063271	WASHER # 8 W FLAT ANSI B27.2Z	2	2
23	72066581	CLAMP-LOOP 1.00 CUSHIONED	1	2
24	72601881	CAP SCR # 8-32X 1.00 SH PLAIN	2	2
25	70034382	CAP-GREASE PRO20 GC-RED	5	3
26	72053508	ZERK-NPT .12	2	3
27	72053301	COUPLING-GLV .12 SCH 40	2	3
28	72053589	ELBOW-STREET BRS .12 X 90 DEG	2	3
29	77040742	CONTROLLER- CRANE MODULE S4	1	4
30	70735199	RECEIVER-RAD CAN BUS CMD.CTRL	1	4
31	70735198	TRANSM-RAD W/ LCD CMD.CTRL	1	4
32	77441782	HARNESS-ES5 SP CRANE	1	4
33	72053758	ELBOW-M STR/90/M JIC 4 4	4	5
34	72532351	ADPTR-M STR/M JIC 4 4	6	5
35	72532674	CAP-JIC STL 4 ( .44 THD)	1	5
36	72534567	ELBOW-M STR/90/M JIC XLG 6 4	1	5
37	72534582	TEE-STL STR/JIC/JIC 4 4 4 RUN	1	5
38	72534714	TEE-STL JIC/STR/JIC 4 6 4 BRANCH	1	5
39	72535129	ELBOW-M STR/90/M JIC 10 4	2	5
40	51490385	HOSE-AA .13 X 4.50 (2-2) 100R17	2	
41	52728738	WLDMT-MAST 5300-6300 S5	1	
42	71056705	GEAR ROTATOR 5000/6000	1	
43	73051919	MOTOR-HYD (101-2638-009)	1	
44	60146052	SHROUD-TURNABLE GEAR 5000/6000	1	
45	76039295	GASKET-GEA19 008-10056-1	1	
46	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4	
47	73540325	VALVE-PROP FLOW CNTRL 12V ELEC CRANE	1	
48	73735269	VALVE BANK ASM-3SEC ELEC CRN DANFOSS	1	
49	77040839	SOLENOID 500 AMP 12VDC TE SIDE MOUNT	1	
50	60147879	SLEEVE-TYPE C .63X 1.31X .27	2	
51	52728827	WLDMT-VB BRKT 5300E-6300E	1	
52	60251891	PLATE-SPACER CMD CTRL BODY PANEL	1	

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
53	60147959	SPACER-POWER UNIT 3300E-6300E	1	
54	73511506	POWER UNIT-0.151 CU.IN. 12VDC MTE	1	
REV. INITIAL RELEASE				

## Electric Valve Bank 5300e-23 & 6300e-23(73735269)

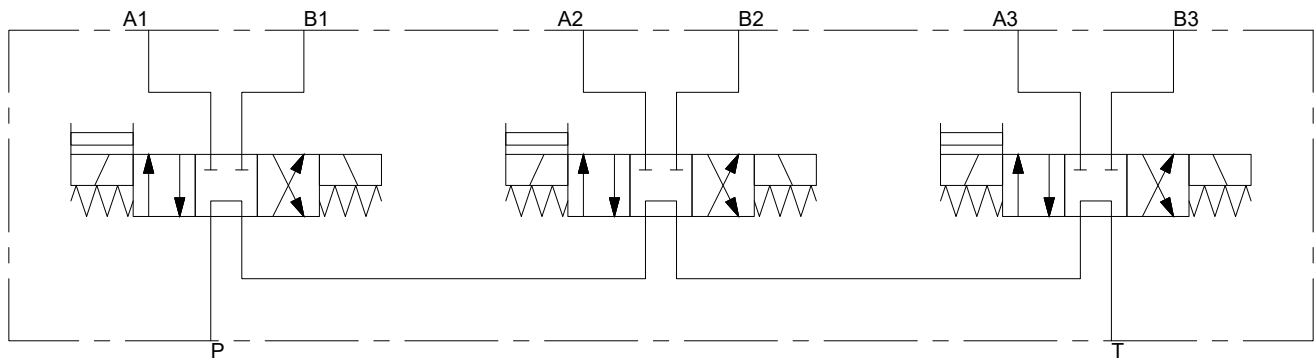


NOTE:  
 MANIFOLD MATERIAL: 6061 ALUMINUM ALLOY  
 ALL PORTS SEA-4 ORB

### Electric Valve Bank (73735269) PARTS LIST

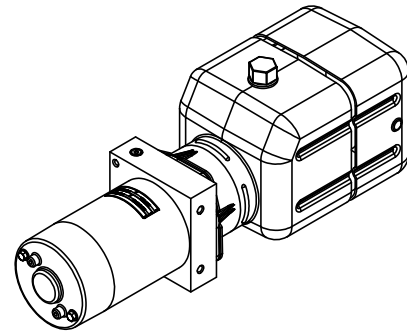
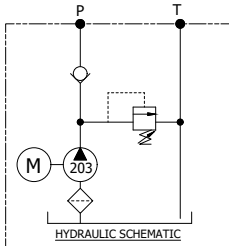
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	73540706	VALVE MANIFOLD-12203002-C05	1
2.	73540704	VALVE-3P4W SV08-34-04-00-00-B-00 NO COIL	3
3.	77411036	COIL-M13-12D-20W-DE	6
REV. INITIAL RELEASE			

# Electric Valve Bank Schematic (73735269)

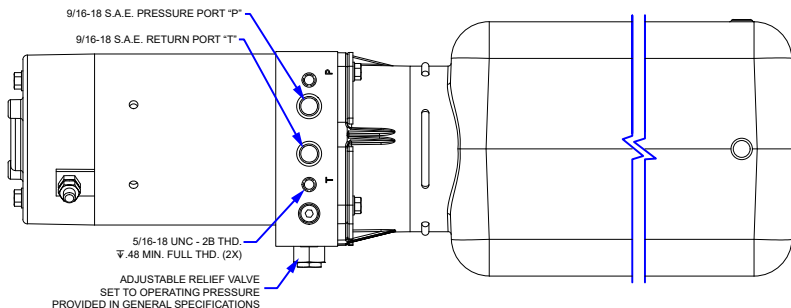
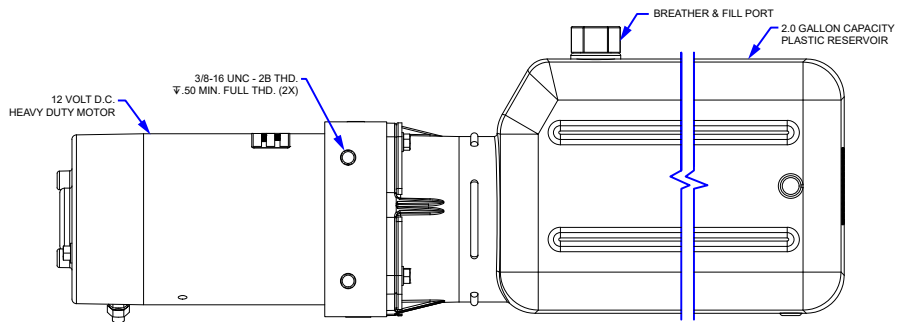
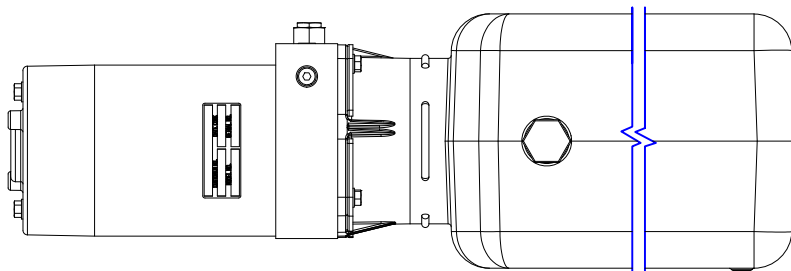
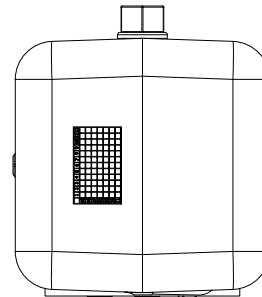
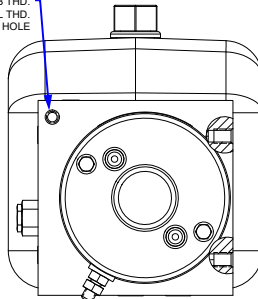


# Power Unit 5300e-23 & 6300e-23 (73511506)

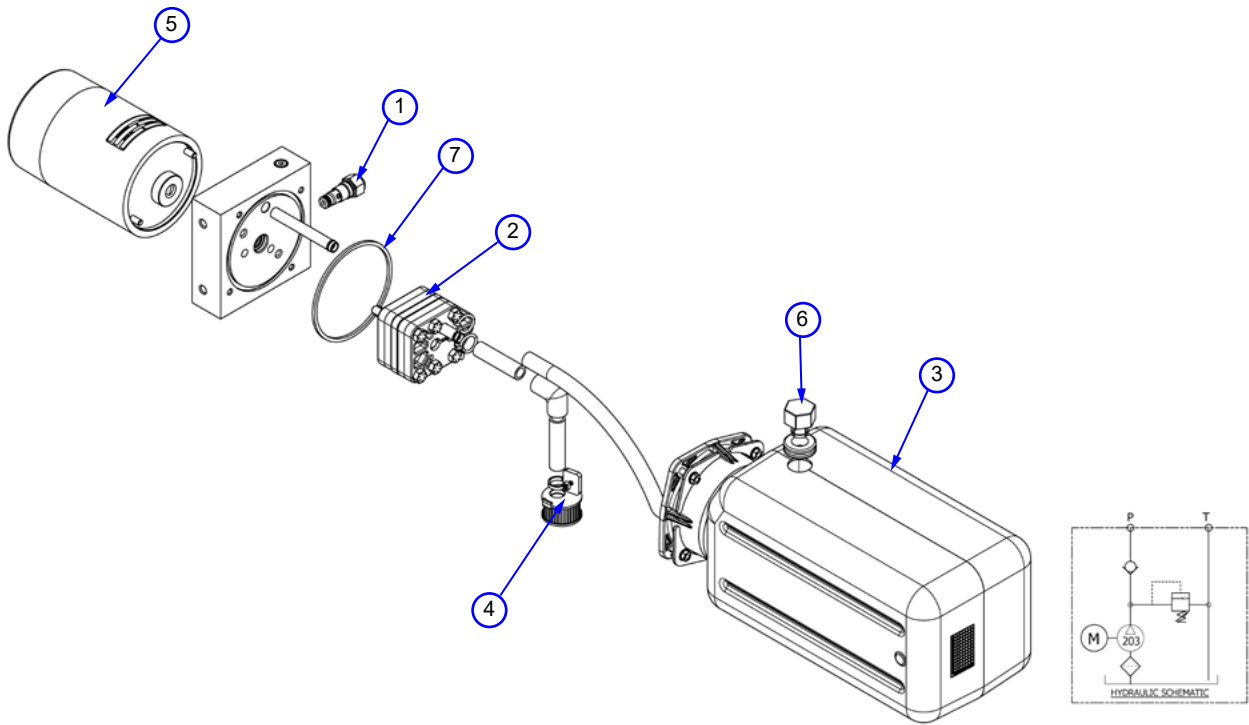
THEORETICAL DISPLACEMENT: .151 CU.IN./REV. (.000652 GAL./REV.)



5/16-18 UNC - 2B THD.  
▽ .48 MIN. FULL THD.  
GROUND HOLE

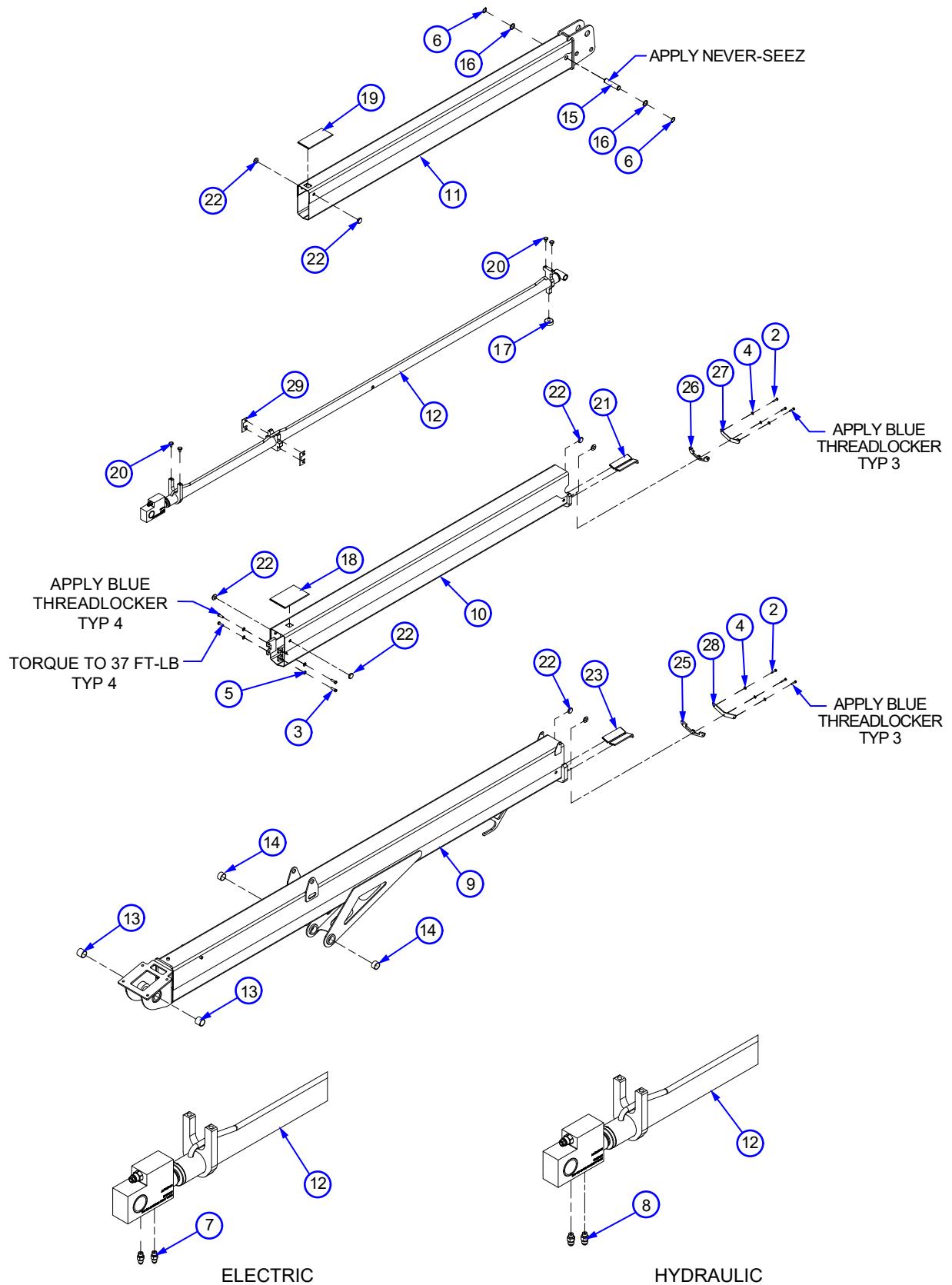


**Power Unit 5300e-23 & 6300e-23 (73511506) PARTS LIST**

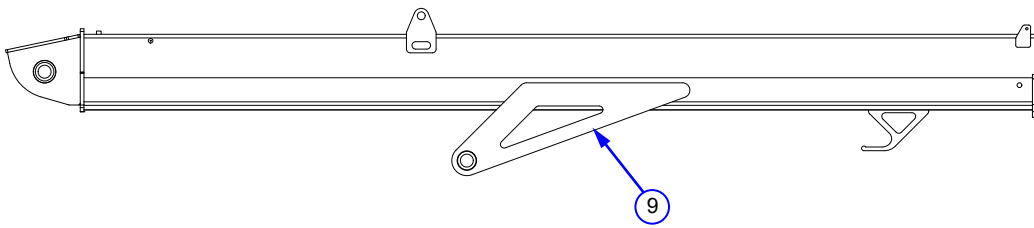
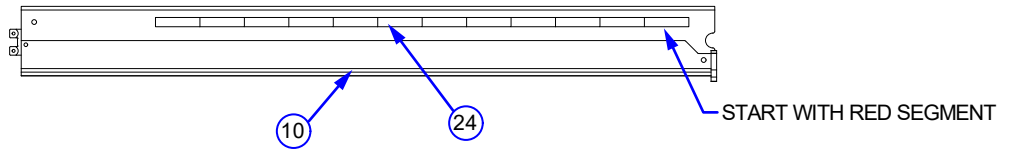
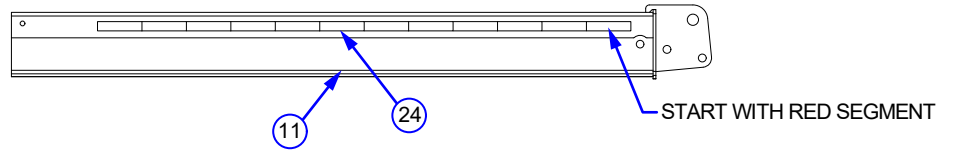


ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	73535130	RELIEF VALVE, RED SPRING	1
2	73350184	PUMP, 203	1
3	73490622	RESERVOIR, 2.0 GAL., 16.00	1
4	73735345	FILTER, ROUND PLASTIC	1
5	73490621	12 VDC MOTOR, HD XOT2	1
6	73735346	BREATHER-POWER UNIT 73511506	1
7	76490636	O-RING - RESERVOIR - PU 73511506	1
REV. INITIAL RELEASE			

# Boom Assembly ALL MODELS (99906937)



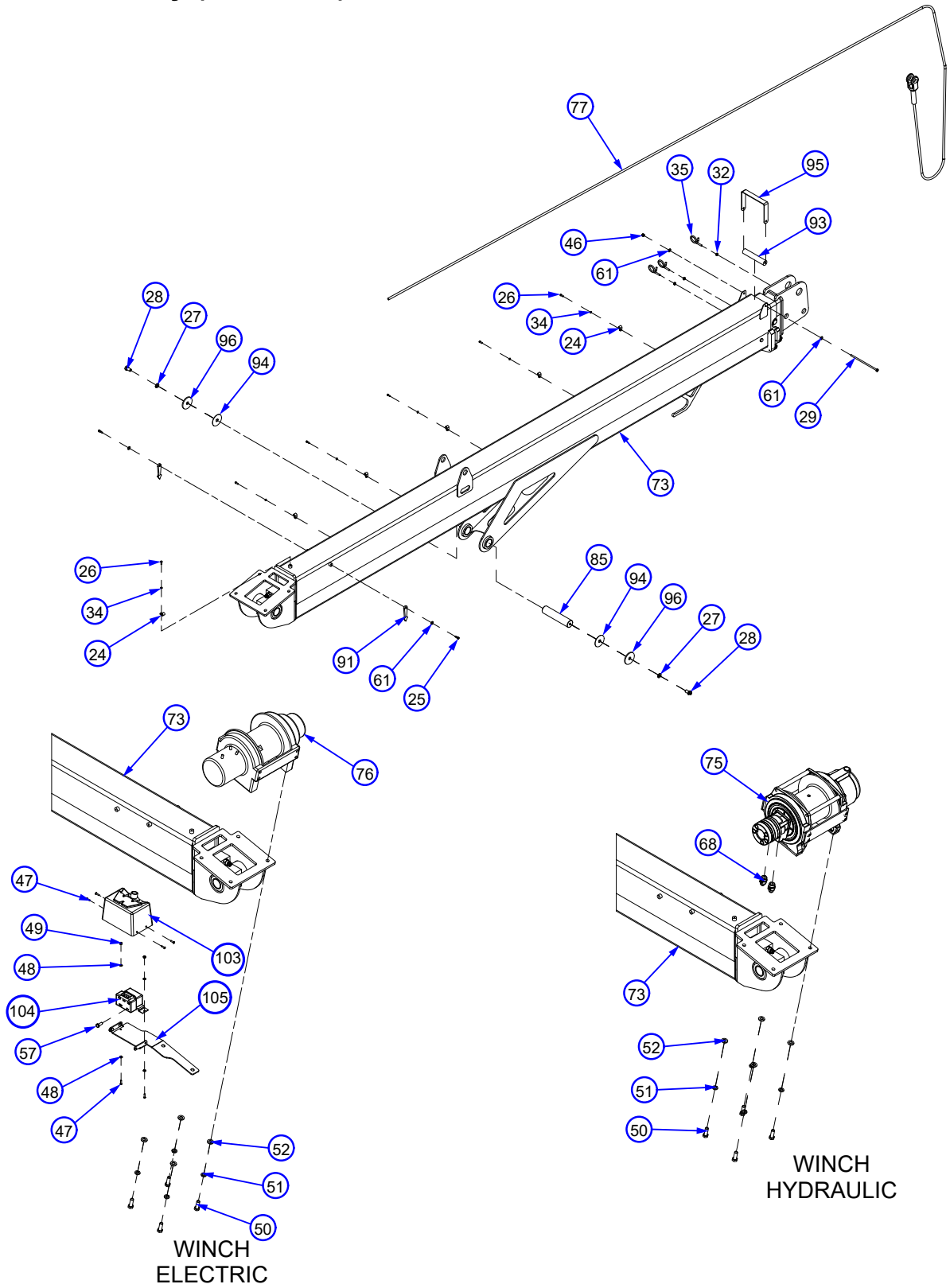
**Boom Assembly all models (99906937) CONTINUED**



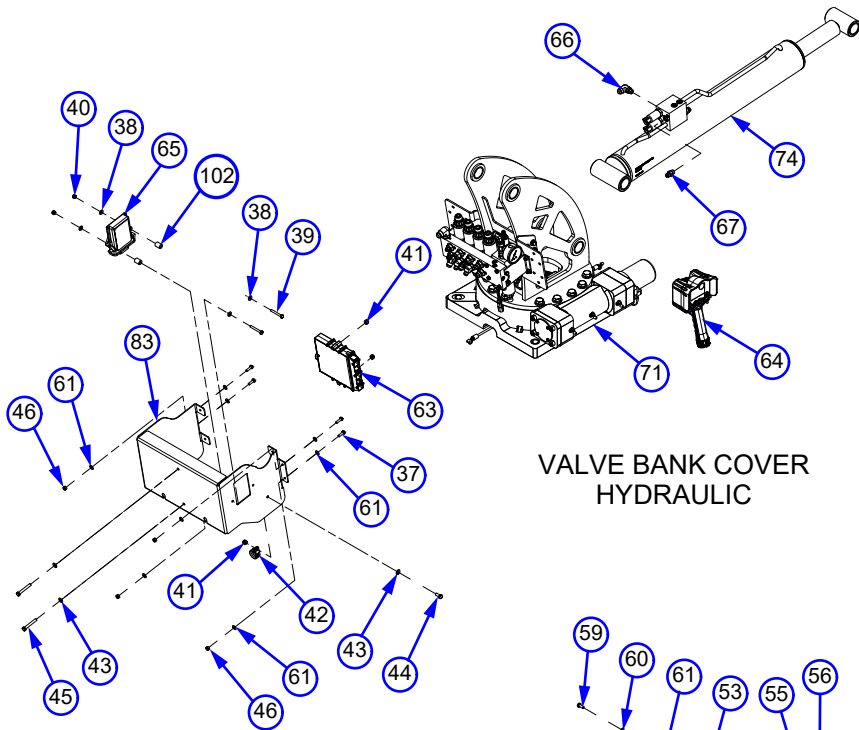
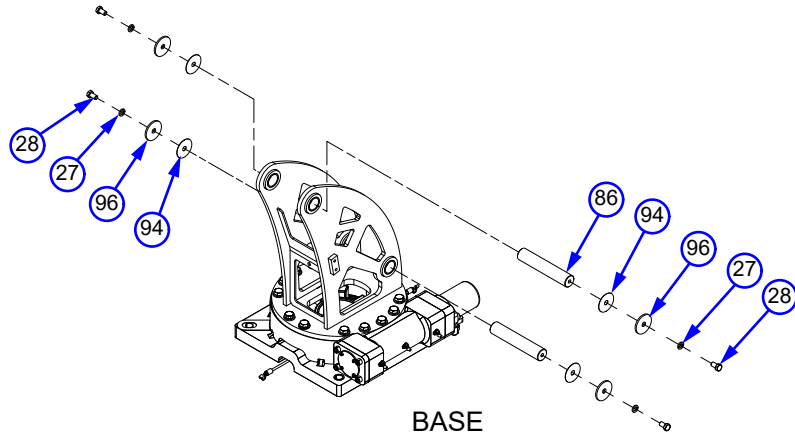
**Boom Assembly (99906937) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728859	KIT-HRDW BOOM ASM 5300E-6300	1	
2	72060005	CAP SCR .25-20X 1.25 HH GR5 Z	6	1
3	72060116	CAP SCR .38-16X 1.25 HH GR8 Z	4	1
4	72063001	WASHER .25 FLAT	6	1
5	72063003	WASHER .38 FLAT	4	1
6	72066125	RETAINING RING-EXT 1.00 HD	2	1
7	72532351	ADPTR-M STR/M JIC 4 4	2	
8	72532775	ADPTR-M STR/M JIC 4 6	2	
9	52728686	WLDMNT-LOWER BOOM 5300-6300 S5	1	
10	52728698	WLDMT-1ST STAGE EXT BOOM 5300-6300 S5	1	
11	52728711	WLDMT-2ND STAGE EXT BOOM 5300-6300 S5	1	
12	51728765	CYL-1.75/1.25 1.75/1.5 115.13S 135.88CC S5	1	
13	70034580	BEARING MRP 1.50X1.75X1.50 POLYGON	2	
14	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	2	
15	70190019	PIN-TYPE A 1.00X 4.53 (4.11) SS	1	
16	70190010	MACHY BUSHING 1.00X14 GA SS	2	
17	60030422	WEAR PAD-RND SIII EXT CYL	1	
18	60030592	WEAR PAD-RC 0.25 X 8.00X 5.00	1	
19	60030628	WEAR PAD-RC 0.25X 8.00X 3.63	1	
20	60030622	WEAR PAD-RND .25X 1.00X .35X .81	4	
21	60030604	WEAR PAD-RC 0.25X 6.00X 1.50	2	
22	60030607	WEAR PAD-RND 0.25X 1.38X 0.63X 0.34	8	
23	60030608	WEAR PAD-RC 0.25X 6.00X 1.88	2	
24	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00	4	
25	60147923	SPACER-LOWER BOOM WP 5000-8600	1	
26	60147921	SPACER-1ST EXT WP 5000-6000	1	
27	60147826	RETAINER-1ST EXT WP 5000-6000	1	
28	60147922	RETAINER-LOWER BOOM WP 5300-8600	1	
29	60147962	SHIM-EXT CYL YOKE 5300-6300 S5	AR	
REV. INITIAL RELEASE				

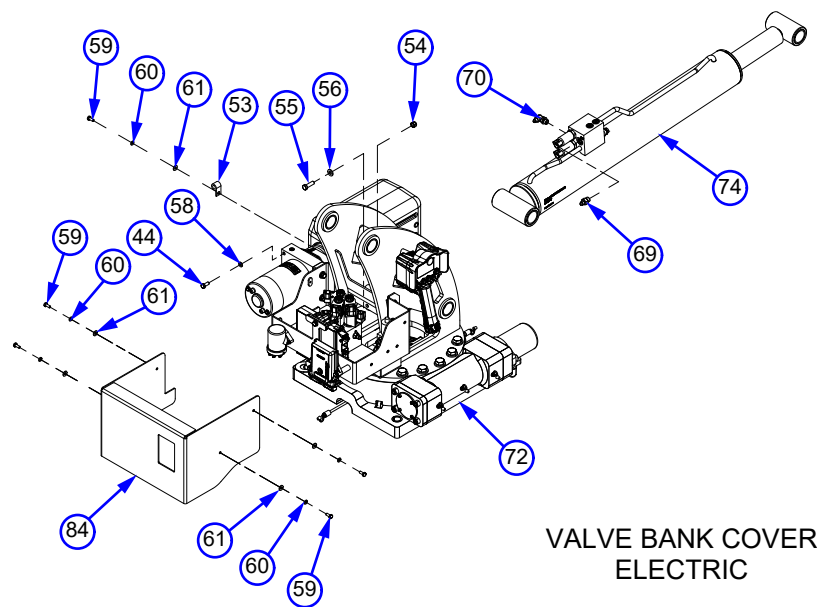
# Crane Assembly (99906940)



**Crane Assembly (99906940) CONTINUED**



**VALVE BANK COVER  
HYDRAULIC**



**VALVE BANK COVER  
ELECTRIC**

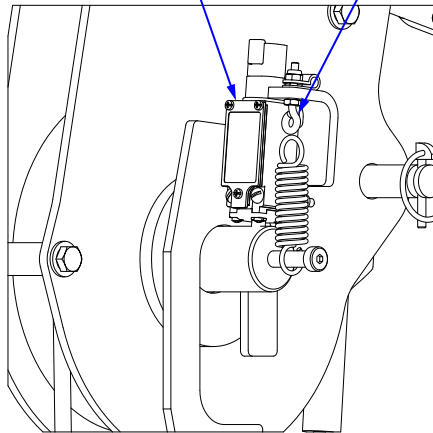
### Crane Assembly (99906940) CONTINUED

**NOTES**

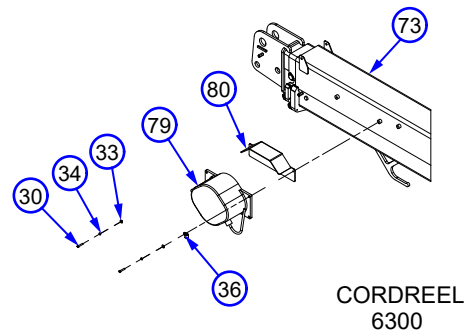
- 1. APPLY BLUE THREADLOCKER

LIMIT SWITCH SHOULD BE AS HIGH UP AS POSSIBLE IN SLOTS

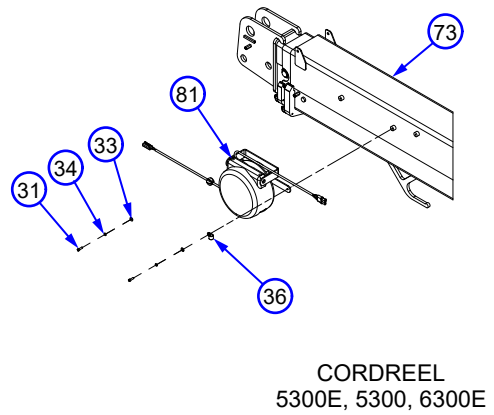
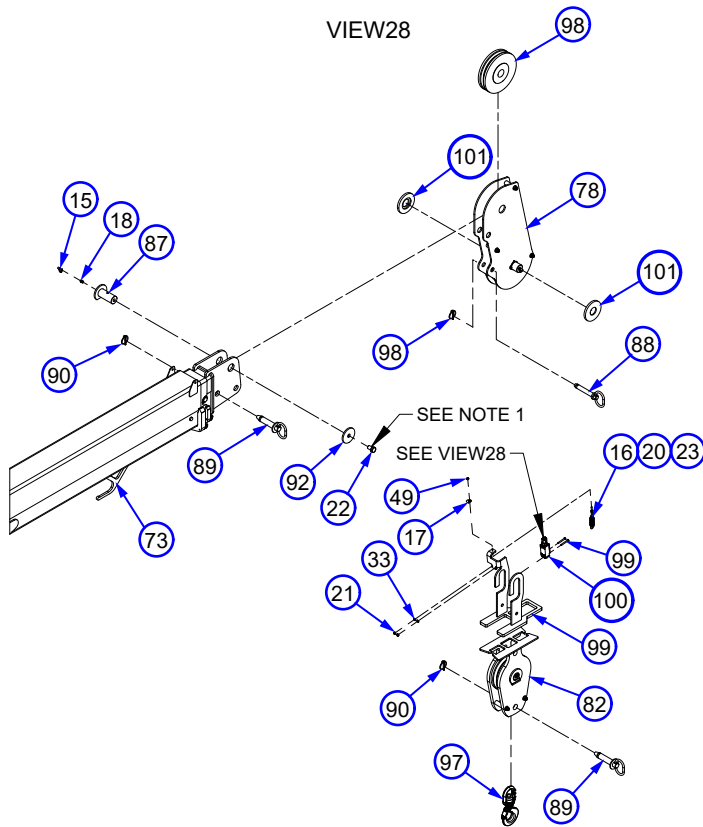
EYE-BOLT SHOULD BE ORIENTED AS SHOWN



VIEW28



CORDREEL 6300



CORDREEL 5300E, 5300, 6300E

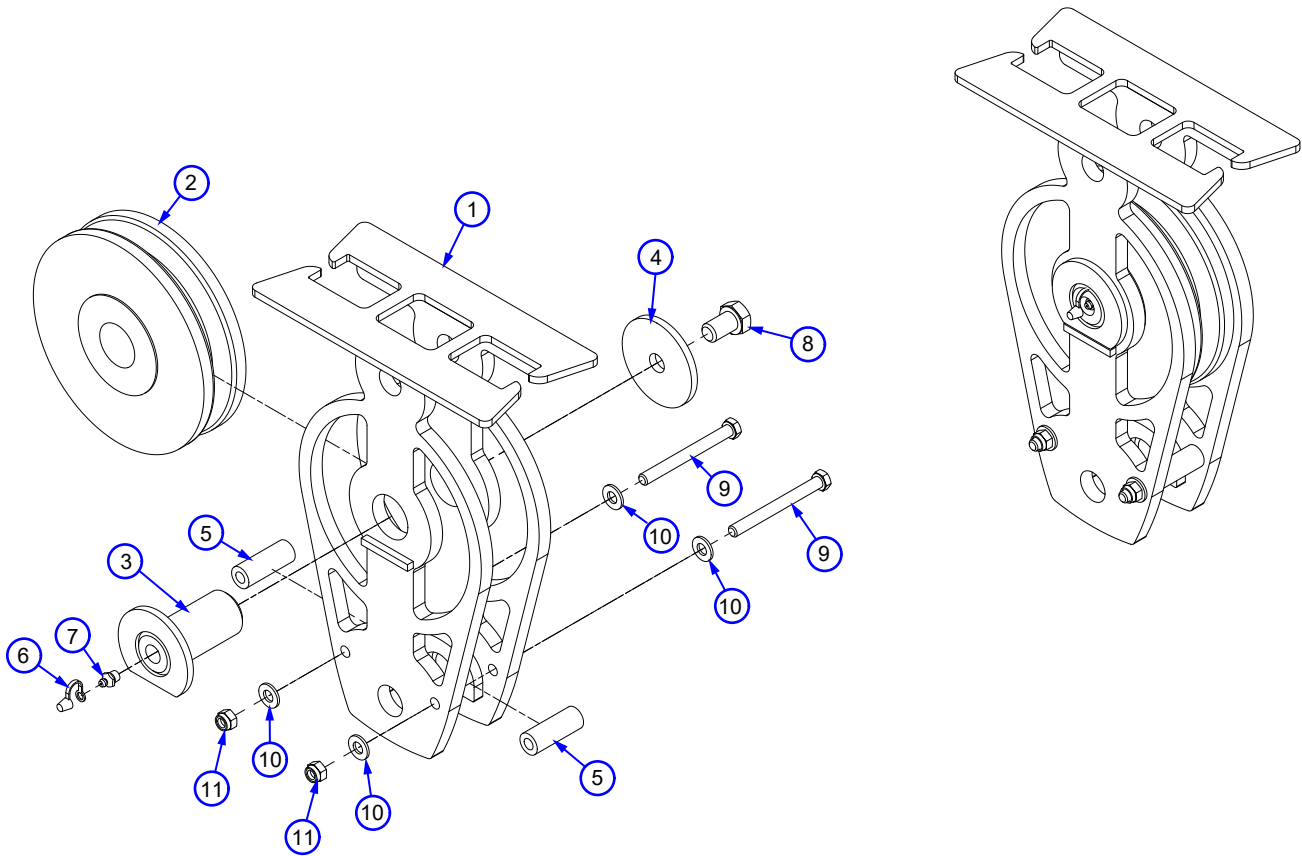
**Crane Assembly (99906940) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728910	KIT-HRDW A2B ASM 3300-12600	1	
2	51728973	KIT-HRDW ACCESSORIES 5300-12600L	1	
3	51728913	KIT-HRDW PINNING 3300-12600	1	
4	51728974	KIT-HRDW WIRE ROPE GUIDE 5300-8600	1	
5	51728975	KIT-HRDW COBO CORDREEL ASM 6300-12600	1	
6	51728911	KIT-HRDW ZECA CORDREEL ASM 3300-6300E	1	
7	51728915	KIT-HRDW VB COVER ASM 3300-12600	1	
8	51728976	KIT-HRDW HOIST 5300-6300	1	
9	51728978	KIT-HRDW HOIST 5300E-6300E	1	
10	51728979	KIT-HRDW ELEC. INST. 5300E-6300E	1	
11	51728920	KIT-HRDW VB COVER 3300E-6300E	1	
12	51728917	KIT-ELEC SP CRANE CMD.CTRL 3300-12600	1	
13	91728977	KIT-HYD SP CRANE ASM 5300-6300	1	
14	91728980	KIT-HYD CRANE ASM 5300E-6300E	1	
15	70034382	CAP-GREASE PRO20 GC-RED	1	1
16	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	1	1
17	72034485	CLAMP-PLASTIC 1/4" CABLE	1	1
18	72053508	ZERK-NPT .12	1	1
19	72060641	SCR-MACH 10-24X 1.75 RDH	2	1
20	72062093	NUT # 8-32 HEX ZINC	1	1
21	72062106	NUT 10-24 HEX NYLOCK	2	1
22	72601335	CAP SCR .62-11X 1.00 HH SS	1	1
23	72601938	BOLT-EYE # 8-32X 1.125	1	1
24	72034572	CLAMP-PLASTIC .38 CABLE	6	2
25	72601119	BOLT-SHLDR .25X .38	2	2
26	72602212	CAP SCR #10-24X .50 SH ZINC	6	2
27	72063144	WASHER-SS .50 LOCK TYPE 304	6	3
28	72602168	CAP SCR .50-13X .88 HH SS	6	3
29	72602209	CAP SCR .25-20X 7.00 HH GR5 Z	1	4
30	72602214	CAP SCR #10-24X 1.00 SH ZINC	2	5
31	72602215	CAP SCR #10-24X 0.63 SH ZINC	2	6
32	72062000	NUT .25-20 HEX	3	5, 6
33	72063268	WASHER #10 W FLAT ANSI B27.2Z	6	1, 5, 6
34	72063047	WASHER #10 LOCK	10	2, 5, 6
35	72661694	BRIDLE RING 1-1/12ID X 1/4-20	3	5, 6
36	72661801	CLAMP-LOOP .20X .50 VINYL COVERED	2	5, 6
37	72060003	CAP SCR .25-20X .88 HH GR5 Z	4	7
38	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	4	7
39	72601995	CAP SCR .25-20X 2.00 HH SS	2	7
40	72062194	NUT-SS .25-20 NYLOC	2	7
41	72062109	NUT .31-18 HEX NYLOCK	3	7
42	72066582	CLAMP-LOOP 1.25 CUSHIONED	1	7
43	72063002	WASHER .31 FLAT	3	7
44	72060023	CAP SCR .31-18X .75 HH GR5 Z	2	7
45	72060030	CAP SCR .31-18X 2.25 HH GR5 Z	2	7
46	72062104	NUT .25-20 HEX NYLOCK	5	4, 7
47	72602011	SCR-MACH # 8-32X .62 BTNHD ZC	6	9
48	72063271	WASHER # 8 W FLAT ANSI B27.2Z	4	9
49	72062207	NUT 8-32 HEX NYLOCK	3	1, 9
50	72661799	CAP SCR M12-1.75X 35 HH 8.8 Z	4	8, 9
51	72601798	WASHER-LOCK 12MM	4	8, 9
52	72601800	WASHER-FLAT M12	4	8, 9
53	72661312	CLAMP- .50 LOOP CUSHIONED	1	10
54	72062103	NUT .38-16 HEX NYLOCK	1	10
55	72060047	CAP SCR .38-16X 1.25 HH GR5 Z	1	10
56	72063003	WASHER .38 FLAT	1	10

**Crane Assembly (99906940) PARTS LIST CONTINUED**

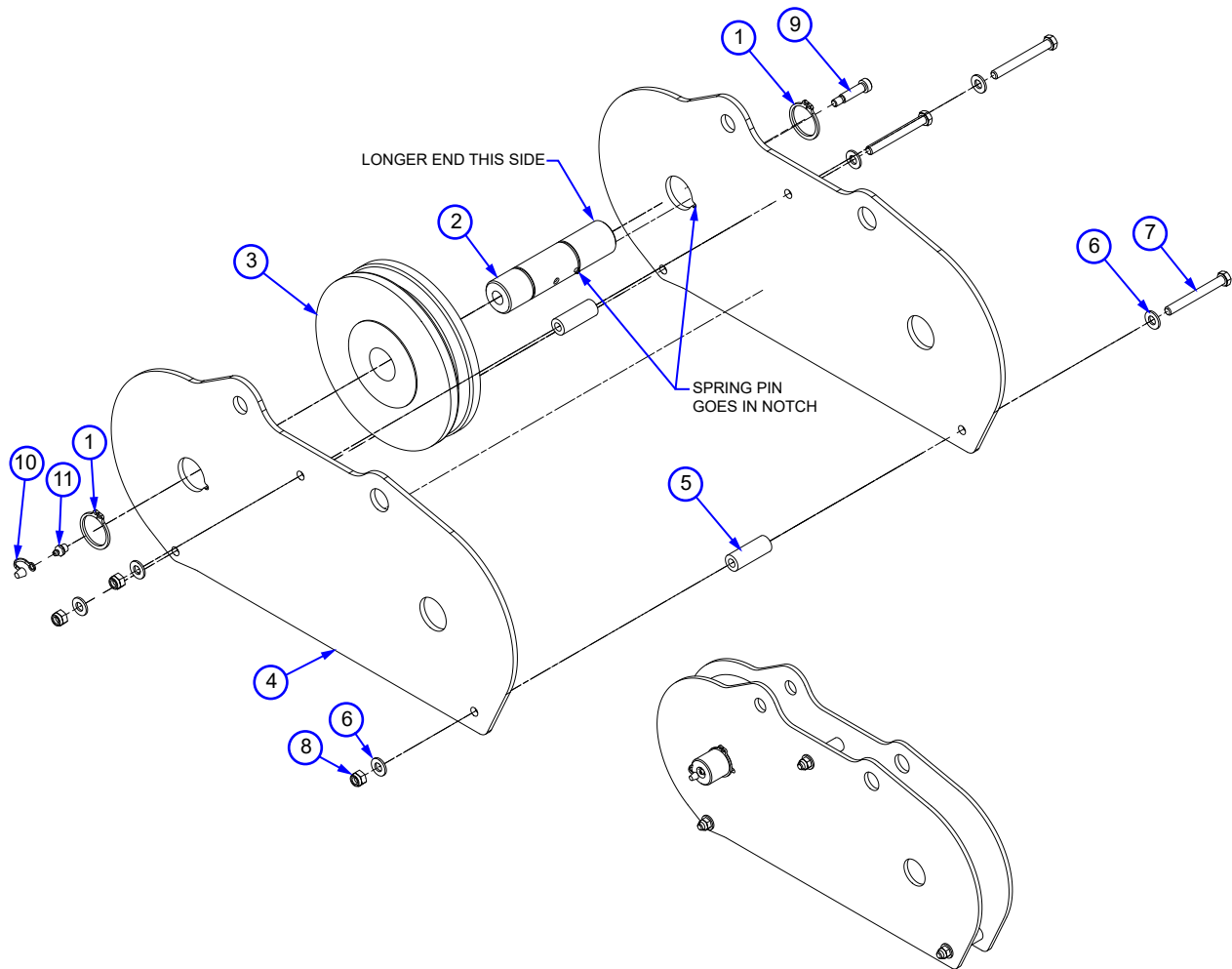
57	72601278	CAP SCR M 8-1.25X 20 HHZ	1	10
58	72063050	WASHER .31 LOCK	1	10
59	72060001	CAP SCR .25-20X .62 HH GR5 Z	5	10, 11
60	72063049	WASHER .25 LOCK	5	10, 11
61	72063001	WASHER .25 FLAT	17	2, 4, 7, 10, 11
62	77441718	HARNESS-S4 SP CRANE	1	12
63	77040742	CONTROLLER- CRANE MODULE S4	1	12
64	70735198	TRANSM-RAD W/ LCD CMD.CTRL	0	12
65	70735199	RECEIVER-RAD CAN BUS CMD.CTRL	1	12
66	72053762	ELBOW-M STR/90/M JIC 6 8	1	13
67	72532355	ADPTR-M STR/M JIC 6 6	1	13
68	72532359	ADPTR-M STR/M JIC 10 8	2	13
69	72532353	ADPTR-M STR/M JIC 6 4	1	14
70	72532699	ELBOW-M STR/90/M JIC 6 4	1	14
71	99906935	DWG-BASE ASM 5300-6300 S5	1	
72	99906952	DWG-BASE ASM 5300E-6300E S5	1	
73	99906937	DWG-BOOM ASM 5300E-6300 S5	1	
74	51728767	CYL-4.00/2.25 27.87S 42.05CC S5	1	
75	70571269	HOIST-5000/6000 3000LB	1	
76	71570923	HOIST-DC3000 12VDC	1	
77	70580230	WIRE ROPE ASM-GALV.38(6X25)X85ft XIPS	1	
78	51728717	FLIP SHEAVE ASM 5300-8600 S5	1	
79	77040823	CORD REEL ASM- SENSING CMD.CTRL	1	
80	60147637	BRKT-CORD REEL MNT 6300-12600	1	
81	51728824	CORD REEL ASM 8.00" W/PACKARD CONN 3WIRE	1	
82	51728832	SNATCH BLOCK- DWNHL COMB ASM 5000-8600	1	
83	60147814	COVER-VLV BANK ALL CRANE HYD	1	
84	60147877	COVER-VLV BANK 3300E-6300E	1	
85	70190026	PIN-TYPE AB 1.50X 6.88 SS	1	
86	70190027	PIN-TYPE AB 1.50X 7.88 SS	2	
87	52723030	PIN-TYPE M 1.50X 3.38	1	
88	73734752	PIN-LOCK W/HANDLE 0.75 X 4.00 W/HAIRPIN	1	
89	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN	2	
90	72661543	PIN-QUICK 316-10QP	3	
91	60146295	PLATE-ANGLE STEEL 3.50 IN	2	
92	60109337	RETAINER PLT-PIN 3.00 DIA	1	
93	60030630	ROLLER-CABLE GUIDE 0.31X 1.00X 5.63	1	
94	60030590	WEAR PAD-RND 0.56X 2.44X .03	6	
95	60147883	GUIDE-HOIST CABLE 5300-6300	1	
96	70190003	RETAINER PLT-PIN 0.19 X 2.50 DIA SS	6	
97	70735100	HOOK-SWVL BBRG 3TON W/LATCH	1	
98	60030134	SHEAVE- 8.00 POLYMER	1	
99	52728671	WLDMT- A2B BRKT	1	
100	77041863	SWITCH-LIMIT DT04-4P CONN	1	
101	60030614	SPACER-A2B BRKT	2	
102	60133634	SLEEVE-TYPE C .63X .81X .31	2	
103	71413880	COVER W/O SOCKET	1	
104	77041936	CONTACTOR-HOIST 12V DC3000	1	
105	52728826	WLDMT-HOIST CONTACTOR 5300E-6300E	1	
REV. INITIAL RELEASE				

# Snatch Block ALL MODELS (51728832)



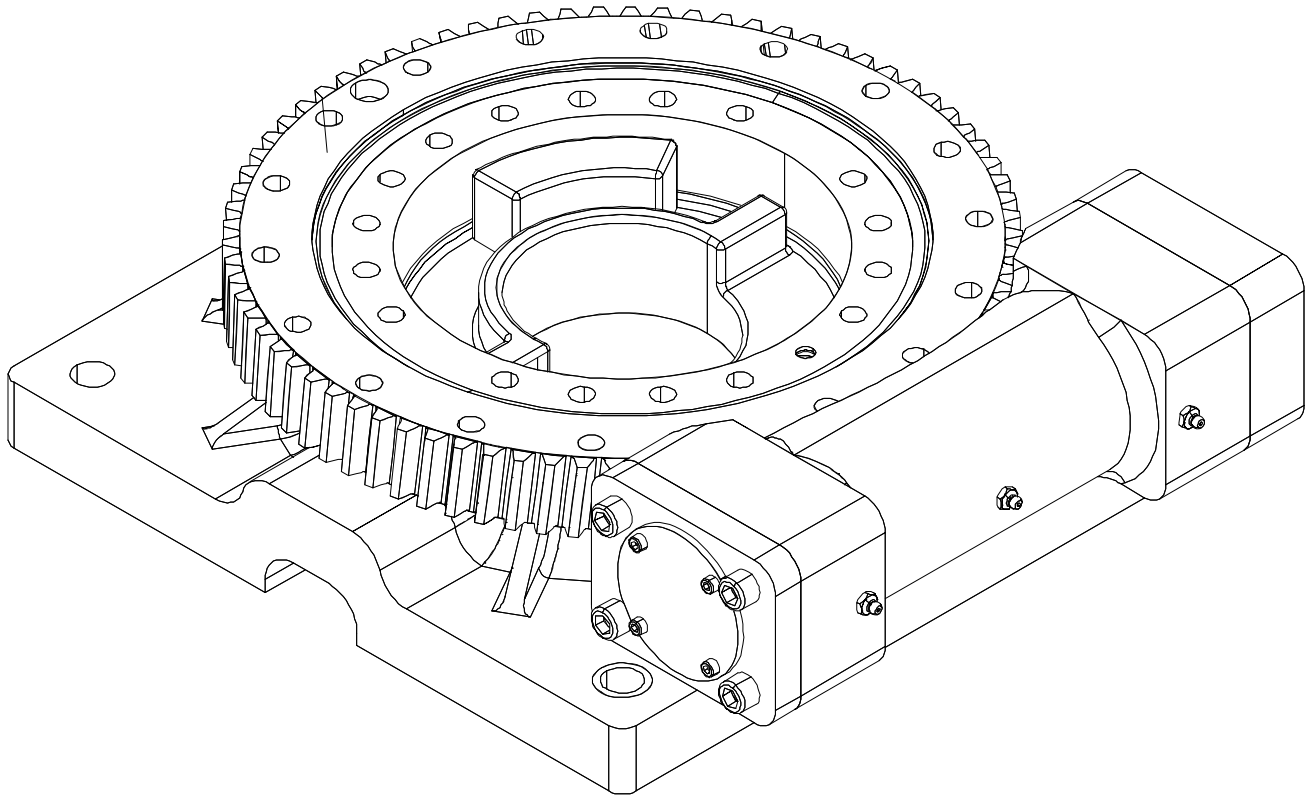
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	52728829	WLDMT-SNATCH BLOCK DWNHL COMB 5000-8600	1
2	60030613	SHEAVE- 7.38 NYLATRON GSM	1
3	52707731	PIN-TYPE M 1.50X 3.00	1
4	60109337	RETAINER PLT-PIN 3.00 DIA	1
5	60030617	NYLON UNTHREADED SPACER 0.75X0.39X2.00	2
6	70034382	CAP-GREASE PRO20 GC-RED	1
7	72053508	ZERK-NPT .12	1
8	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	1
9	72060923	CAP SCR .38-16X 3.75 HH GR5 Z	2
10	72063003	WASHER .38 FLAT	4
11	72062103	NUT .38-16 HEX NYLOCK	2
REV. INITIAL RELEASE			

# Flip Sheave ALL MODELS (51728717)

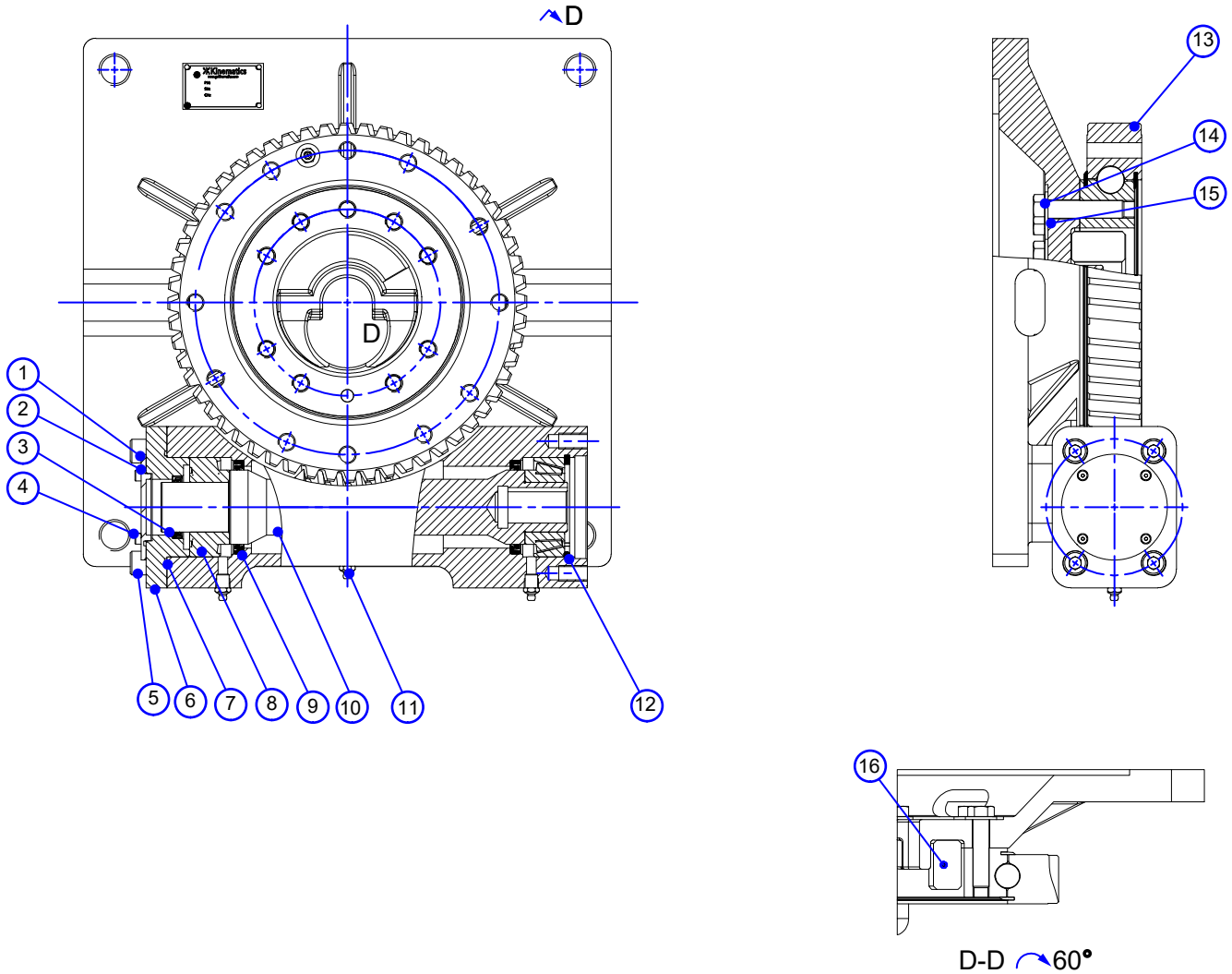


ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	72661774	RETAINING RING-EXT 1.50 HD YZ	2
2	51727745	FLIP SHEAVE PIN ASM 3300-12600	1
3	60030134	SHEAVE- 8.00 POLYMER	1
4	60147628	PLATE-FLIP SHEAVE ASM 5300-8600	2
5	60030617	NYLON UNTHREADED SPACER 0.75X0.39X2.00	3
6	72063003	WASHER .38 FLAT	6
7	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	3
8	72062103	NUT .38-16 HEX NYLOCK	3
9	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	1
10	70034382	CAP-GREASE PRO20 GC-RED	1
11	72053508	ZERK-NPT .12	1
REV. INITIAL RELEASE			

# Gear Rotator (71056705)

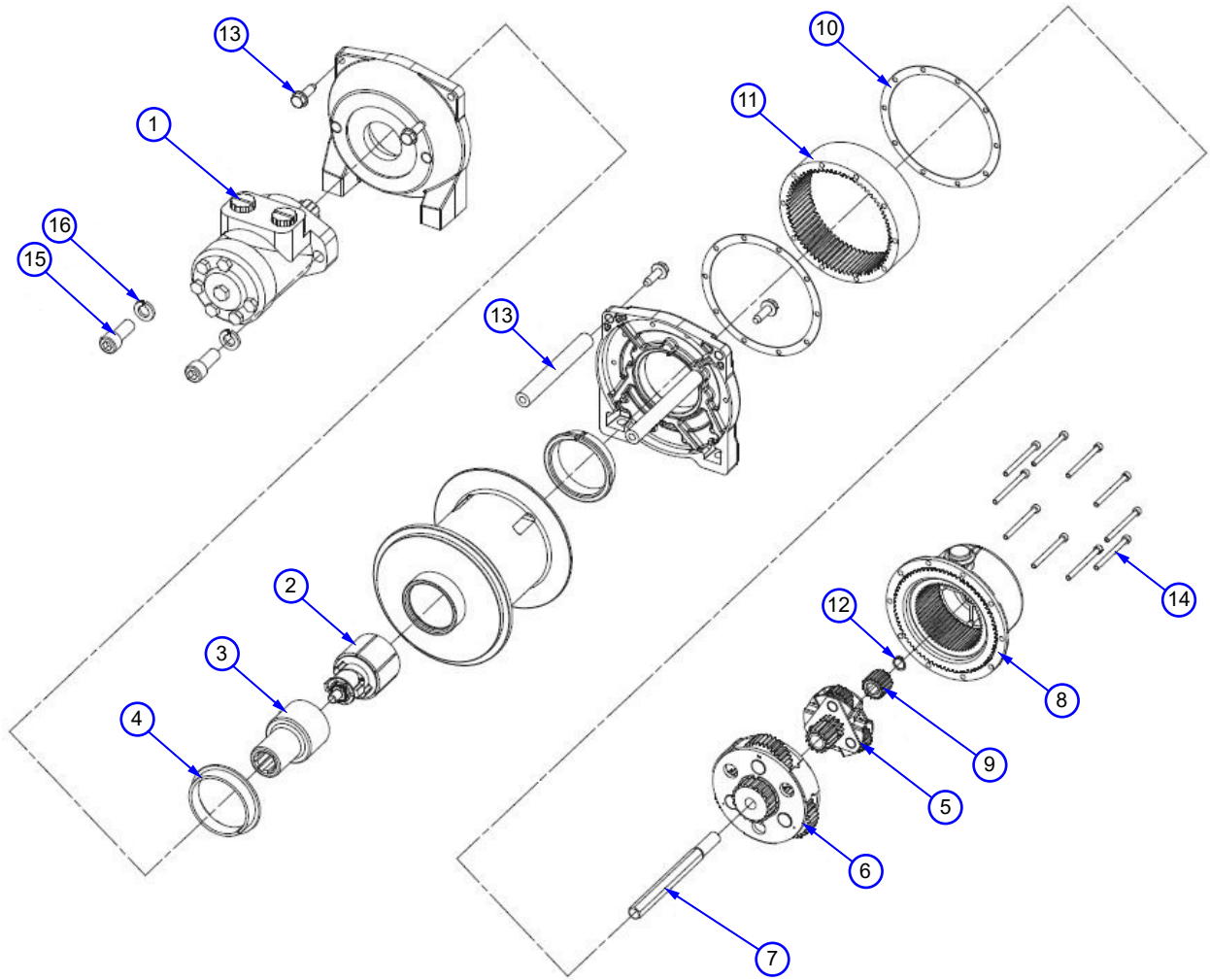


**Gear Rotator (71056705) CONTINUED**



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	71417509	COVER	1
2	76535132	O-RING 54.5 X 2.65	1
3	76535133	OIL SEAL 40 X 50 X 8 FB	1
4	72602223	HEXAGON SOCKET SCREW M5 X 12	4
5	72601949	CAP SCR .50-13X 1.25 SH ZINC	4
6	71417510	END CAP	1
7	76535134	O-RING 82.5X2.65	1
8	70055410	TRB 33208/Q	2
9	76535135	OIL SEAL 60X75X8 FB	2
10	71056725	8" WORM	1
11	72053508	GREASE FITTING 1/8"-27 NPT	3
12	72661809	A TYPE SNAP RING 80X4	1
13	71055412	8" SLEWING BEARING	1
14	72602224	HEX BOLT 9/16"-12 UNCX2.5" GR 8	9
15	72063117	WASHER-FLAT .56 N H ASTM F436	9
16	71417511	SLIDING BLOCK	1
REV. INITIAL RELEASE			

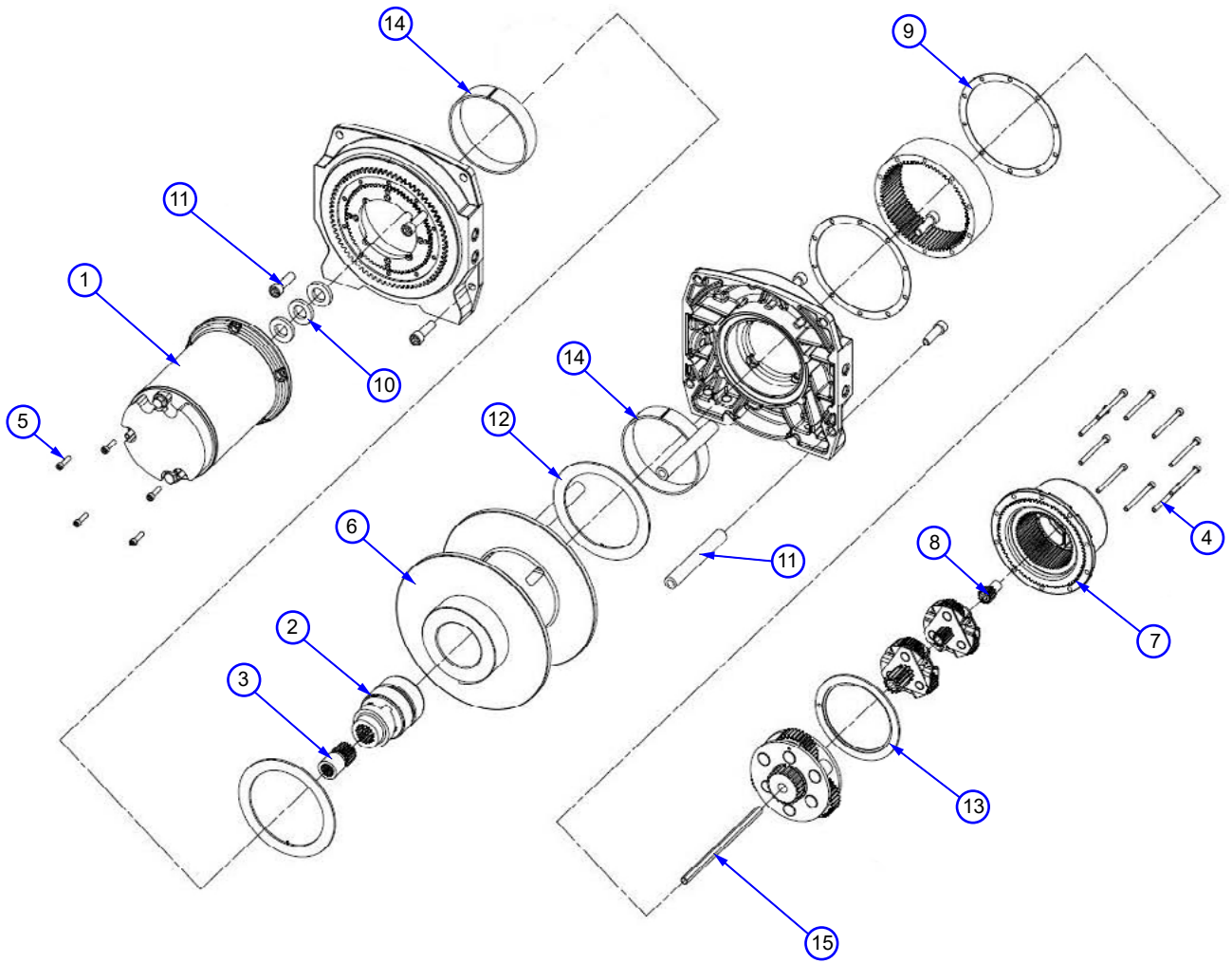
# Hydraulic Hoist (70571269) 5300-23 & 6300-23



**HOIST (70571269) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	73511507	SVC KIT MOTOR, HYD, 2.5, TC0045AS110AAA	1
2	77056719	(MTO)S/P BREAK ASSY, HIGHSPEED	1
3	70056720	DRIVER, BRAKE, HYD, DISK BRAKE	1
4	70034598	BUSHING, DRUM, NYLON	1
5	70056721	CARRIER (PH) ASSY, STAGE 2	1
6	70056722	CARRIER ASSY, (PH) STAGE 3	1
7	70735344	DRIVE SHAFT, 6.30 X .50, W/GROOVE	1
8	71415312	SVC KIT END HOUSING ASSY, CLUTCH PL	1
9	70056723	GEAR, SUN, 18 TEETH, .50 HEX	1
10	32000491	HOUSING, GASKET	1
11	70056724	RING GEAR, ARG, 75 TOOTH	1
12	72661808	RING, RETAINING, 1/2	1
13	70029650	SVC KIT TIE ROD, ALUM, .625 X 4.92	2
14	72602220	CPSCR, SOC, 10-24 X 2.25	10
15	72602221	CPSCR, SOC HD, 1/2-13 X 11	2
16	72602222	WSHR, LOCK, 1/2, ZINC KB	2
REV. INITIAL RELEASE			

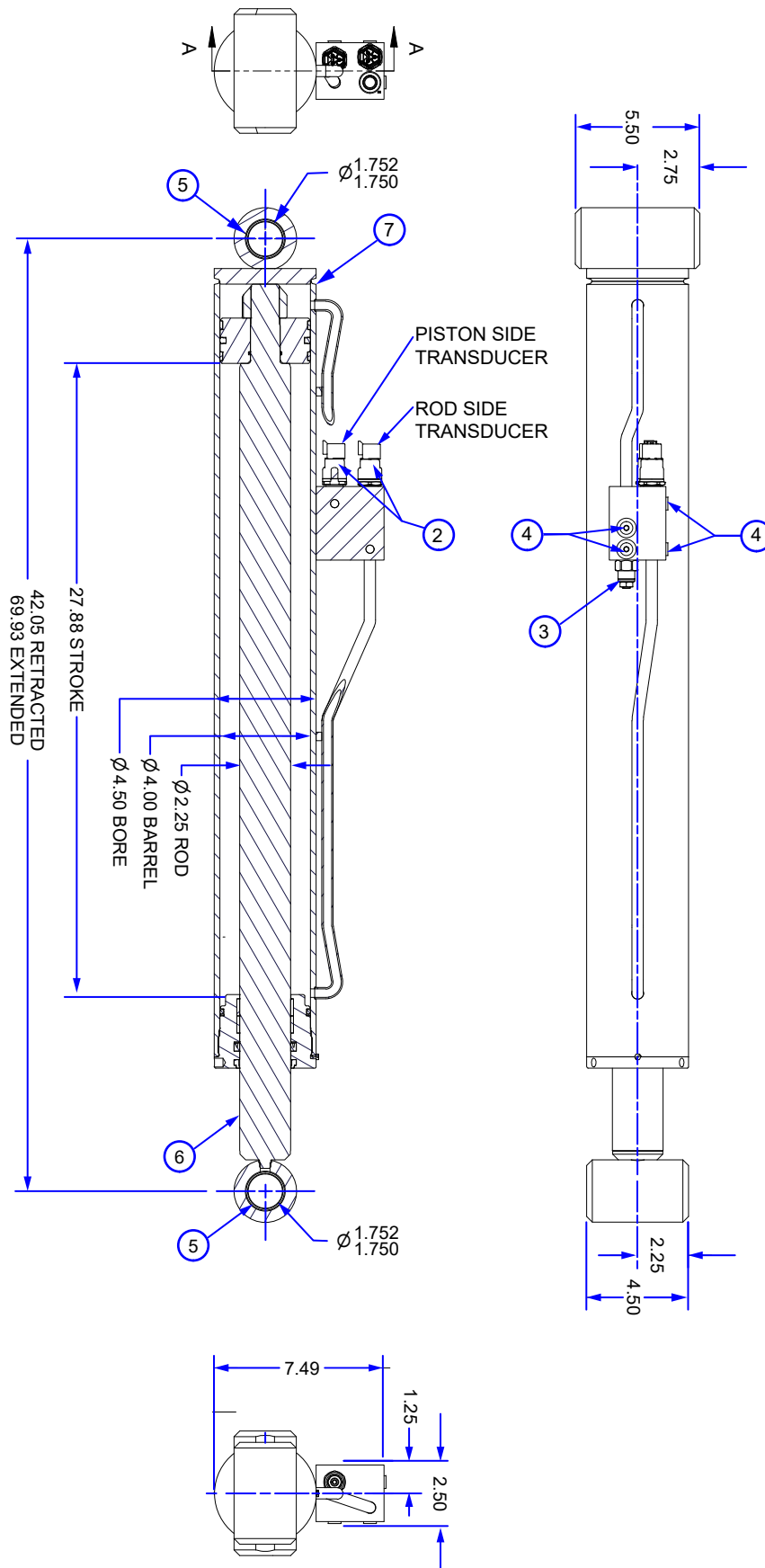
# Hoist (71570923) 5300e-23 & 6300e-23



**71570923 PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	73511210	SVC KIT MOTOR SPLINED 12V DC	1
2	77056662	(MTO)S/P BRAKE,2.18 ELECTRIC	1
3	60132173	COUPLER, MOTOR/BRAKE	1
4	72602220	CPSCR-#10-24 x 2-1/4-HEX SOCKET HEAD-PI	10
5	32000592	CPSCR, SOC, 10-24 X 3/4, GR9 (KB)	5
6	32000594	DRUM, (KB) 2000-MF, 4.25 DIA	1
7	71415312	SVC KIT END HOUSING SUBASSY, CLUTCH PLUG	1
8	71056670	GEAR, SUN, 12 TOOTH, STAGE 1	1
9	32000491	HOUSING, GASKET	1
10	7Q072129	SPACER, MOTOR	1
11	70029650	SVC KIT TIE ROD, ALUM, .625 X 4.92	3
12	32000480	WASHER, THRUST, NYLATRON, CIM	2
13	71413614	WASHER, THRUST, NYLON, MIDRANGE	1
14	32000212	BUSHING DRUM NYLATRON	1
15	73734862	SHAFT-DRIVE-HEX 5/16 X 6.85	1
REV. INITIAL RELEASE			

# Lower Cylinder (51729069)



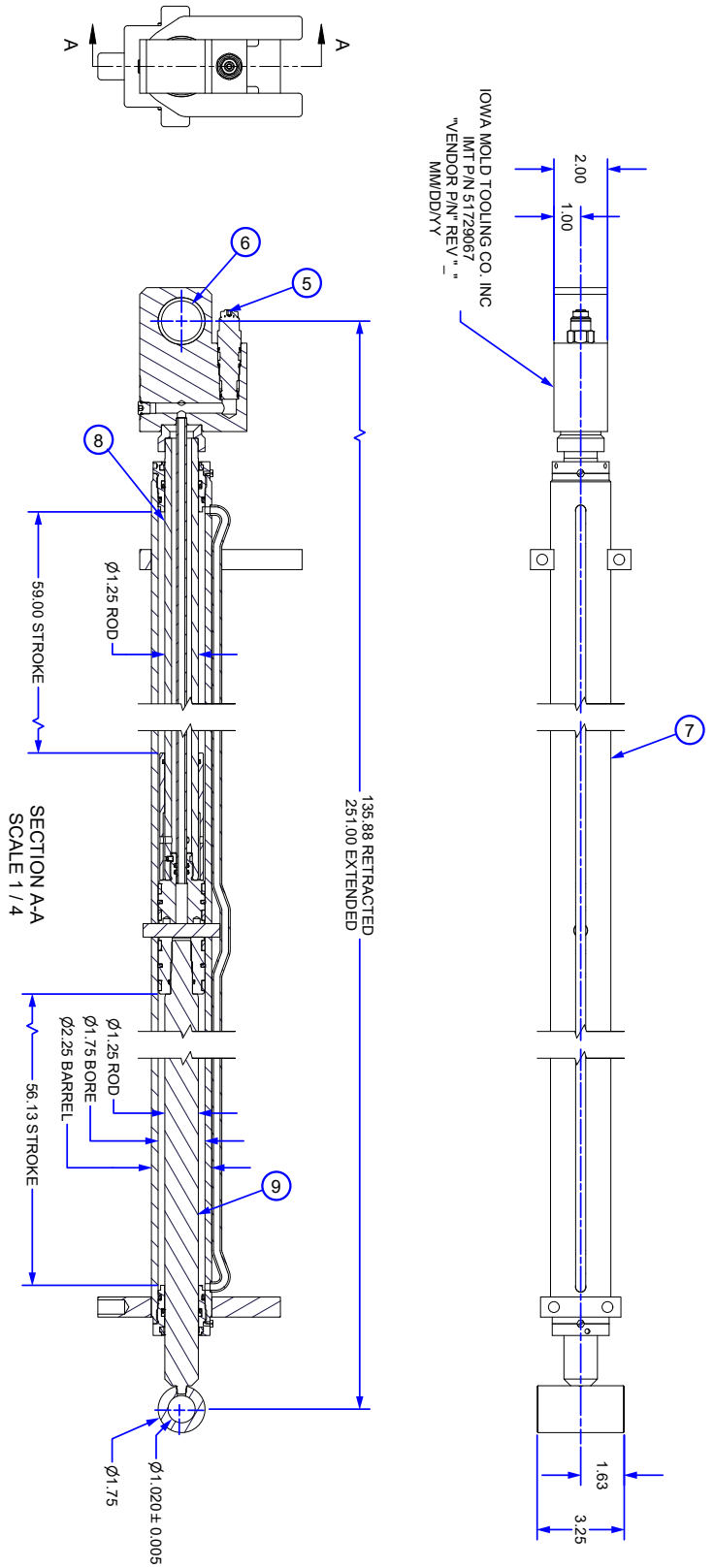
**Lower Cylinder (51729069) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	94490606	SEAL KIT - 51729069	1
2	77040910	TRANSDUCER-HYD 0-5000PSI 4-20mA MH4I	2
3	73540490	VALVE-CBAL CBBB-LAN 1.5:1 3300 PSI	1
4	72533477	PLUG-STR SOC HD STL 4 (.44 THD)	4
5	70034589	BEARING MRP 1.50X1.75X2.00	4
REV. INITIAL RELEASE			

**NOTES:**

1. SEAL KIT NOT SHOWN. (94490606)

# Extension Cylinder (51729067)



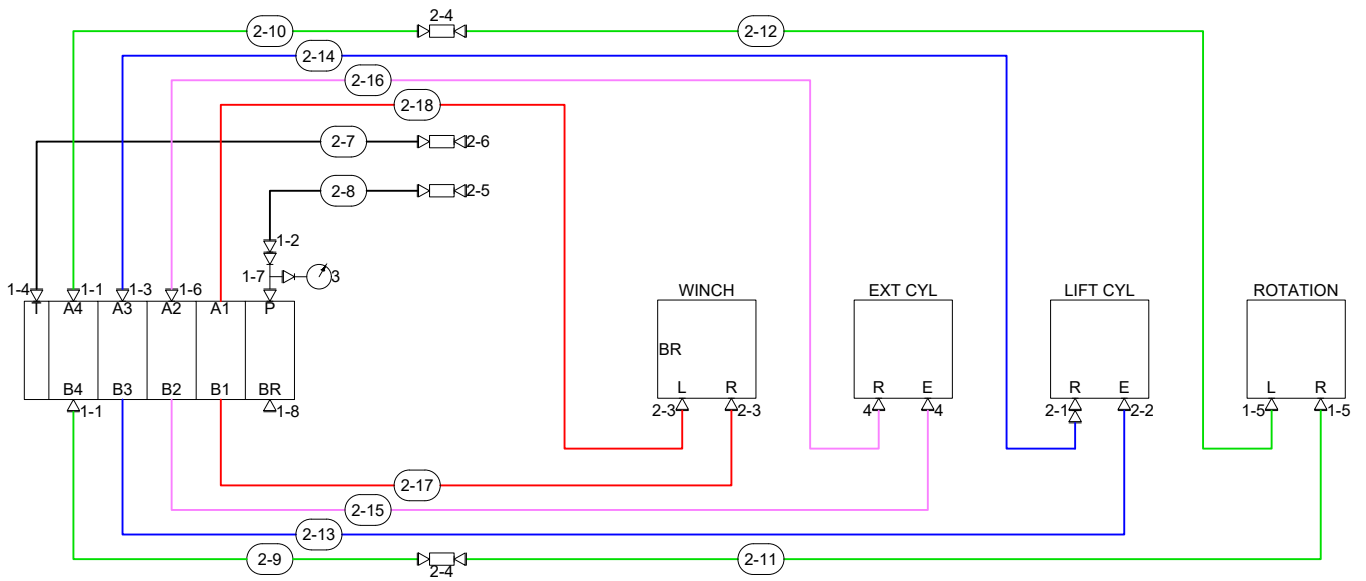
**Extension Cylinder (51729067) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	94490620	SEAL KIT - 51729067	1
5	73540751	VALVE-CBAL SUN CBBG-LJN	1
6	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	2
REV. INITIAL RELEASE			

**NOTES:**

1. SEAL KIT NOT SHOWN. (51729067)

# Hydraulic Schematic SP 5300-23 & 6300-23 (99906977)



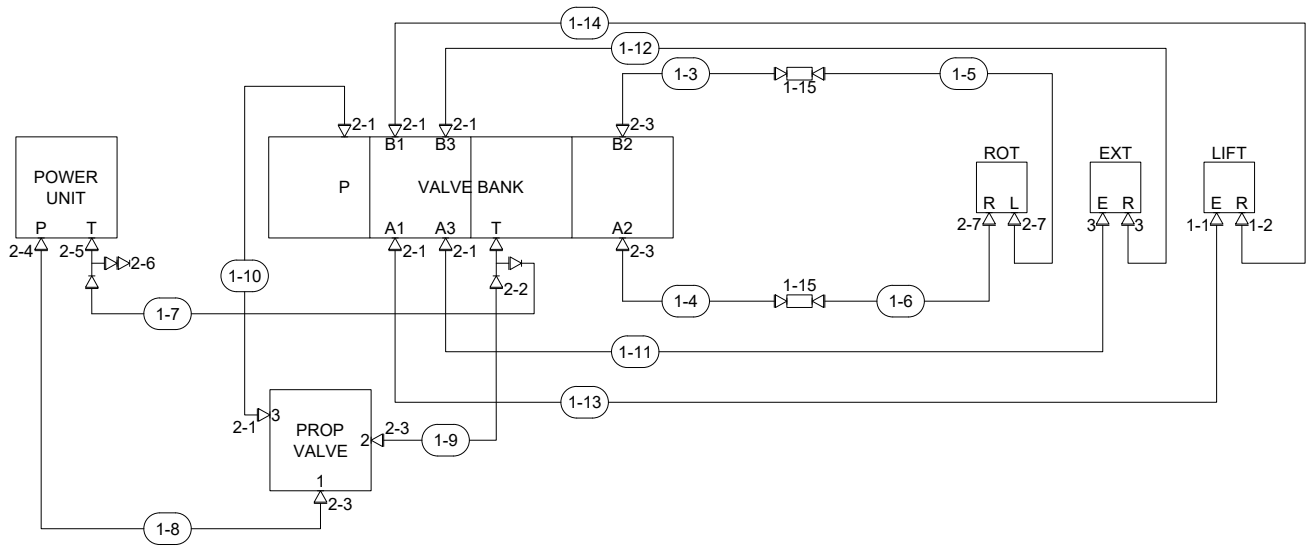
**Hydraulic Schematic SP ALL MODELS (99906977) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	91728812	KIT-HYD BASE ASM 5300-6300	1
1-1	72532356	ADPTR-M STR/M JIC 8 6	2
1-2	72532658	ELBOW-M JIC/90/F JIC SW 8 8	1
1-3	72532670	ELBOW-M JIC/90/F JIC SW 8 6	1
1-4	72533507	ELBOW-M JIC/45/F JIC 8 8	1
1-5	72533331	ELBOW-M STR/90/M JIC 10 6	2
1-6	72534401	ELBOW-M JIC/45/F JIC 6 6	1
1-7	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1
1-8	72532674	CAP-JIC STL 4 ( .44 THD)	1
2	91728977	KIT-HYD SP CRANE ASM 5300-6300	1
2-1	72053762	ELBOW-M STR/90/M JIC 6 8	1
2-2	72532355	ADPTR-M STR/M JIC 6 6	1
2-3	72532359	ADPTR-M STR/M JIC 10 8	2
2-4	72534527	SWIVEL-M JIC/90/M JIC 6 6	1
2-5	72533648	SWIVEL-M JIC/90/M JIC 8 8	1
2-6	72534412	SWIVEL-M JIC/90/M JIC 10 10	1
2-7	51490594	HOSE-FJ .50 X 33.00 (8-8) 100R16	1
2-8	51490595	HOSE-FJ .62 X 33.00 (10-10) 100R17	1
2-9	51490589	HOSE-FJ .38 X 24.00 (6-6) 100R17	1
2-10	51396886	HOSE-FZ .38 X 25.00 (6-6) 100R17	1
2-11	51490590	HOSE-FJ .38 X 18.00 (6-6) 100R17	1
2-12	51490591	HOSE-FJ .38 X 22.00 (6-6) 100R17	1
2-13	51398913	HOSE-FJ .38 X 36.00 (6-6) 100R17	1
2-14	51490592	HOSE-FZ .50 X 37.50 (8-8) 100R17	1
2-15	51399462	HOSE-FJ .38 X 31.00 (6-6) 100R17	1
2-16	51490600	HOSE-FZ .38 X 31.00 (6-6) 100R17	1
2-17	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1
2-18	51397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1
2-19	60350141	SLEEVE-HOSE NHS-159 X 12 CUT & SEALED	1
2-20	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	1
2-21	60350183	SLEEVE-HOSE NHS-159 X 15 CUT & SEALED	5
3	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1
4	72532775	ADPTR-M STR/M JIC 4 6	2
5	72533583	ELBOW-M STR/45/M JIC 8 6	2
REV. INITIAL RELEASE			

# Hydraulic Schematic SP 5300e-23 & 6300e-23 (99906997)

NOTES

1. USE 1X OF ITEM 1-16 TO WRAP ITEMS 1-3 & 1-4
2. USE 1X OF ITEM 1-16 TO WRAP ITEMS 1-11 & 1-12
3. USE 1X OF ITEM 1-16 TO WRAP ITEMS 1-13 & 1-14



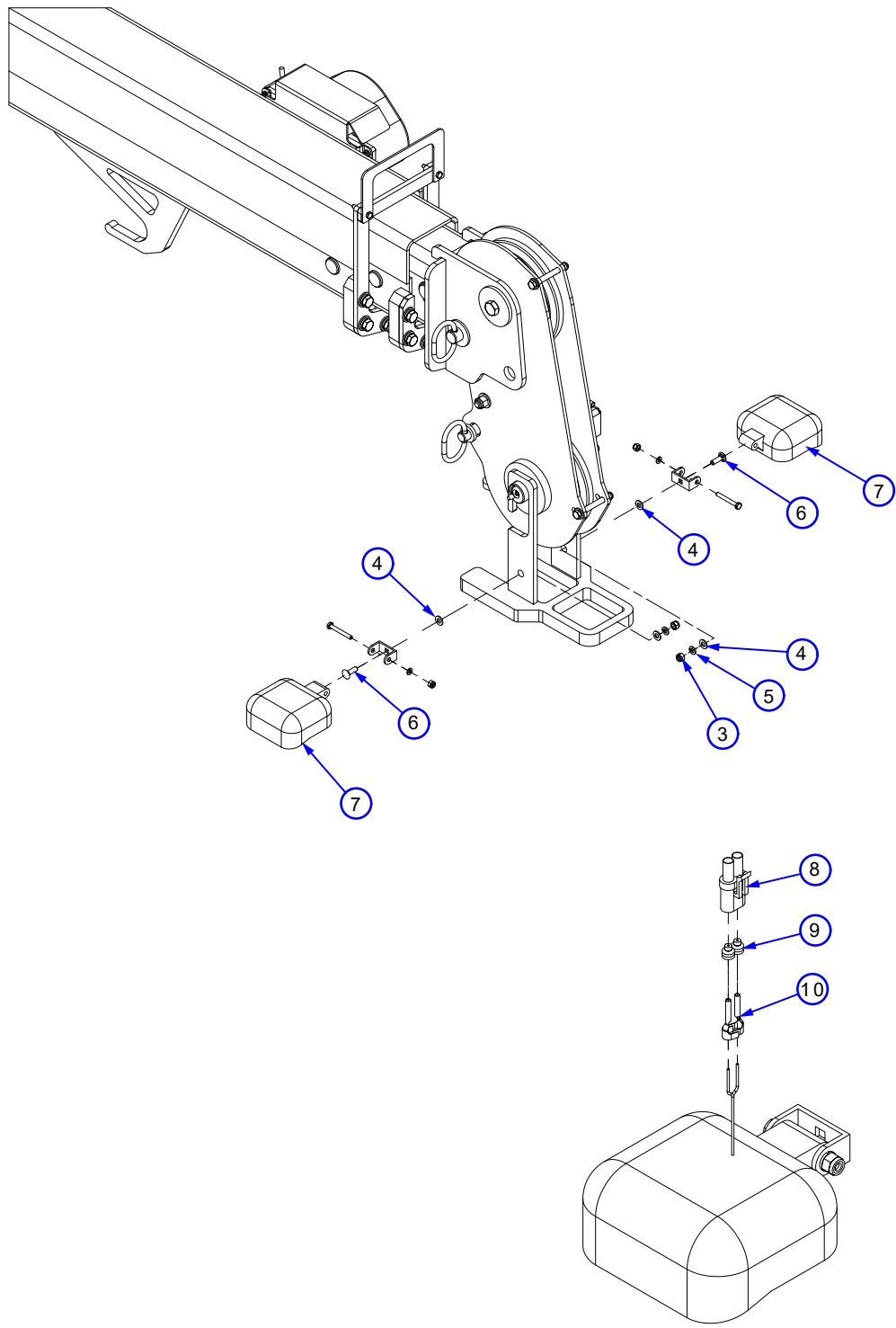
**Hydraulic Schematic SP 5300e-23 & 6300e-23 (99906997) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	91728980	KIT-HYD CRANE ASM 5300E-6300E	1
1-1	72532353	ADPTR-M STR/M JIC 6 4	1
1-2	72532699	ELBOW-M STR/90/M JIC 6 4	1
1-3	51490578	HOSE-FZ .25 X 16.50 (4-4) 100R17	1
1-4	51490579	HOSE-FZ .25 X 17.00 (4-4) 100R17	1
1-5	51399370	HOSE-FF .25 X 15.00 (4-4) 100R17	1
1-6	51395219	HOSE-FF .25 X18.00 (4-4) 100R17	1
1-7	51396406	HOSE-FI .25 X 14.50 (4-4) 100R17	1
1-8	51395219	HOSE-FF .25 X 18.00 (4-4) 100R17	1
1-9	51396973	HOSE-FJ .25 X 13.50 (4-4) 100R17	1
1-10	51398870	HOSE-FJ .25 X 9.50 (4-4) 100R17	1
1-11	51396413	HOSE-FF .25 X 22.00 (4-4) 100R17	1
1-12	51395220	HOSE-FF .25 X 20.00 (4-4) 100R17	1
1-13	51396413	HOSE-FF .25 X 22.00 (4-4) 100R17	1
1-14	51395638	HOSE-FF .25 X 23.00 (4-4) 100R17	1
1-15	72534416	SWIVEL-M JIC/90/M JIC 4 4	2
1-16	60350141	SLEEVE-HOSE NHS-159 X 12 CUT & SEALED	3
2	91728865	KIT-HYD BASE ASM 5300E-6300E	1
2-1	72532351	ADPTR-M STR/M JIC 4 4	6
2-2	72534582	TEE-STL STR/JIC/JIC 4 4 4 RUN	1
2-3	72053758	ELBOW-M STR/90/M JIC 4 4	4
2-4	72534714	TEE-STL JIC/STR/JIC 4 6 4 BRANCH	1
2-5	72534567	ELBOW-M STR/90/M JIC XLG 6 4	1
2-6	72532674	CAP-JIC STL 4 ( .44 THD)	1
2-7	72535129	ELBOW-M STR/90/M JIC 10 4	1
3	72533020	ELBOW-M STR/45/M JIC 4 4	2
3	72533020	ELBOW-M STR/45/M JIC 4 4 2	2
REV. INITIAL RELEASE			

**Section - 6**

**Electrical & Lighting**

# Boom Tip Floodlight Kit (99906730)



WIRING DETAIL

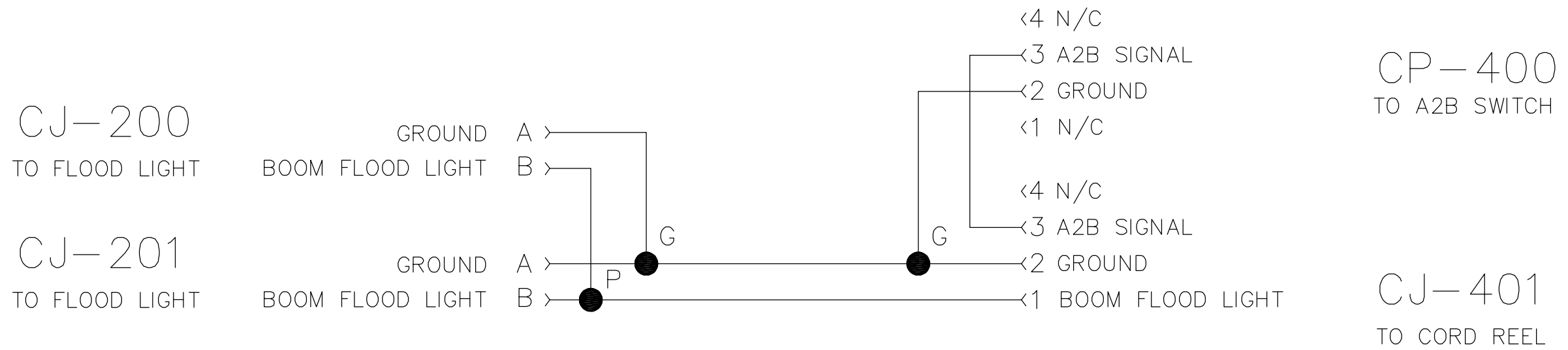
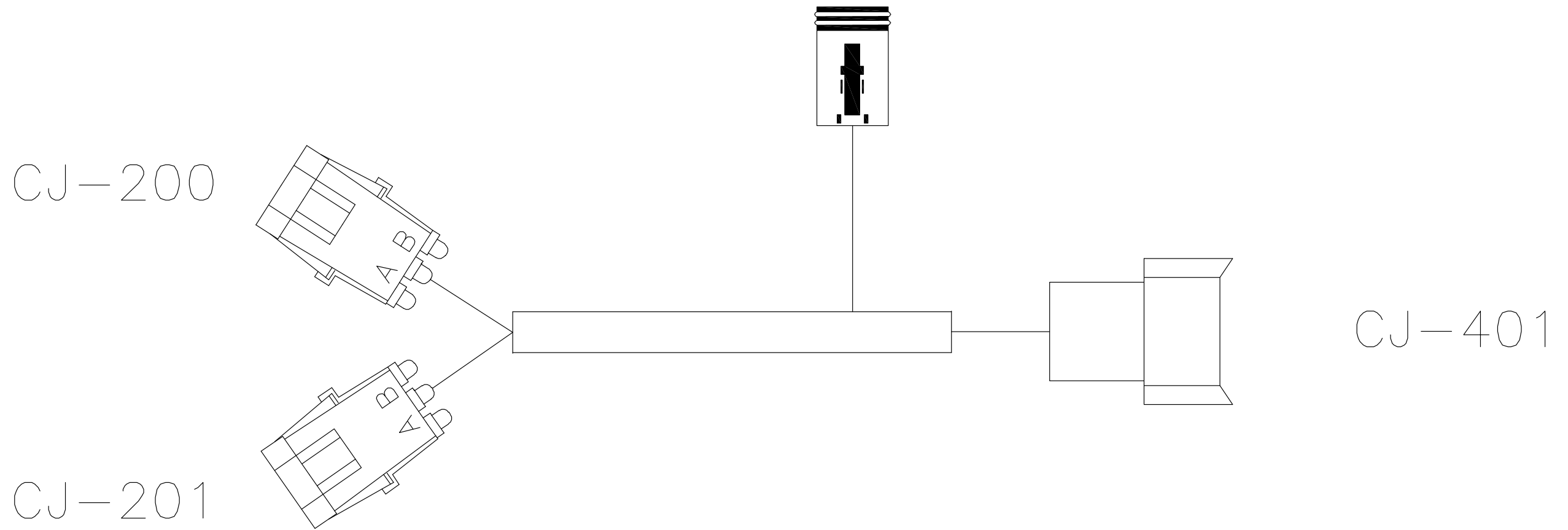
**Boom Tip Floodlight Kit (99906730) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	51724116	ELECT KIT-S4 BOOM DUAL LED FLOOD LIGHTS	1	
2.	72034572	CLAMP-PLASTIC .38 CABLE	1	1
3.	72062109	NUT .31-18 HEX NYLOCK	2	1
4.	72063002	WASHER .31 FLAT	4	1
5.	72063050	WASHER .31 LOCK	4	1
6.	72602051	BOLT-CRG .31-18X 1.00 SQNK GR2	2	1
7.	77040581	FLOODLIGHT-LED 12-36VDC	2	1
8.	77044574	CONN-PKRD WEATHERPACK 2 CAV FEMALE/TOWER	2	1
9.	77044927	CABLE SEAL-PKRD WP/MP 14 GA GREY	4	1
10.	77045888	TERM-PKRD WEATHERPACK 14-16GA FEMALE	4	1
11.	77441473	HARNES-S4 BOOM TIP LED FLD LIGHT JUMPER	1	1
REV. INITIAL RELEASE				

**Harness Boom Tip LED Flood Light Jumper (77441473) Nail Board & Schematic Views**

Kit Number: 57124116

CP-400



## Harness Boom Tip LED Flood Light Jumper (77441473) Circuit Chart View

LOCATOR CODE: CJ-200					PACKARD: 12010973	
TERM: 12124582					SEAL: 12015323	
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A	YEL/GRN	16	GROUND	TO	SPL G	-
B	BRN	16	BOOM FLD LT	TO	SPL P	-

LOCATOR CODE: CJ-201					PACKARD: 12010973	
TERM: 12124582					SEAL: 12015323	
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A	YEL/GRN	16	GROUND	TO	SPL G	-
B	BRN	16	BOOM FLD LT	TO	SPL P	-

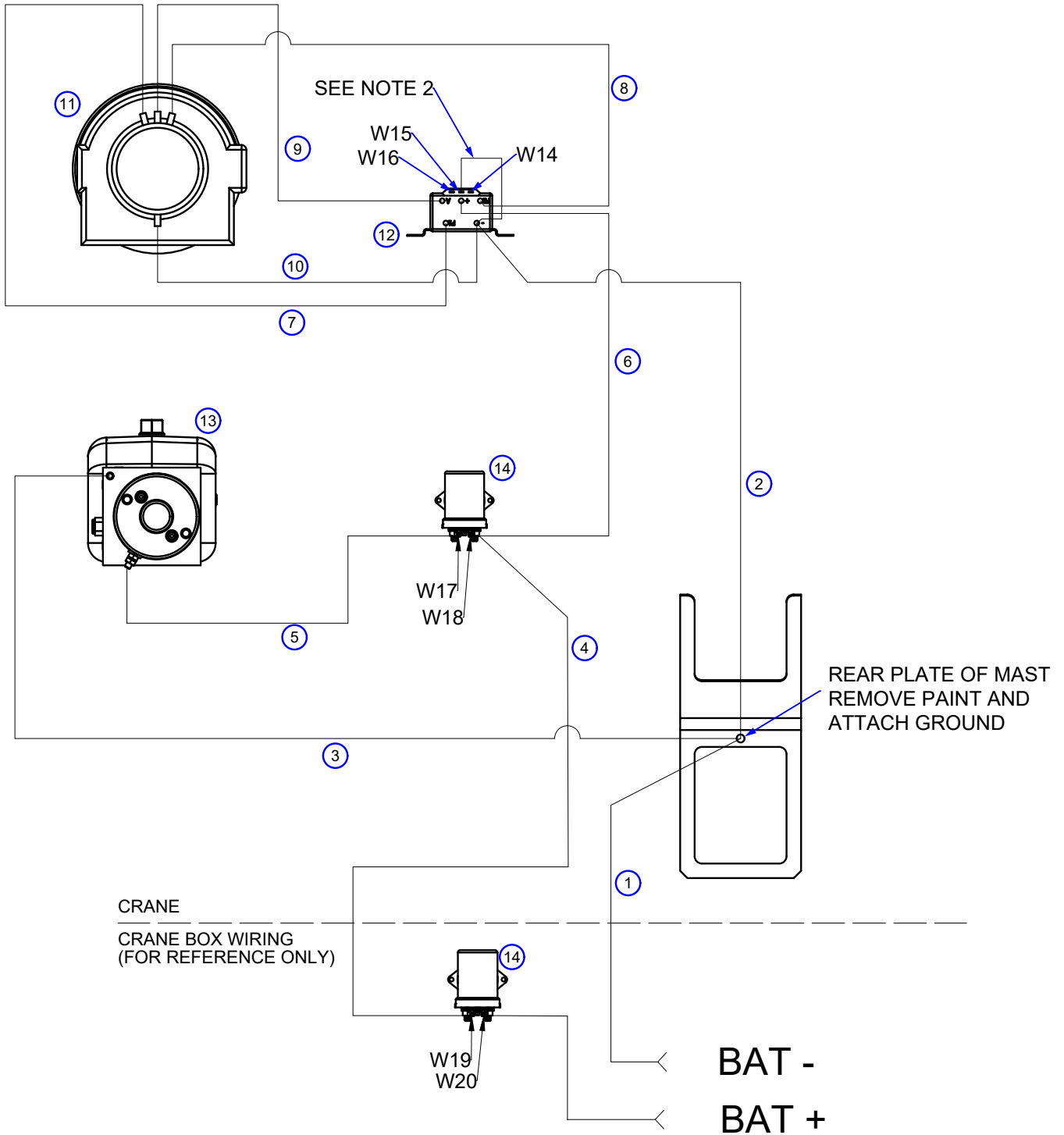
LOCATOR CODE: CP-400					DEUTSCH: DT06-4S	
TERM: 0462-201-16141					WEDGE: W4S	PLUG: 114017
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	-	-	-	TO	-	-
2	YEL/GRN	16	GROUND	TO	SPL G	-
3	BLUE	16	A2B SIG	TO	CJ-401	3
4	-	-	-	TO	-	-

LOCATOR CODE: CJ-401					DEUTSCH: DT04-4P	
TERM: 0460-202-16141					WEDGE: W4P	
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BRN	16	BOOM FLD LT	TO	CJ-200	B
2	YEL/GRN	16	GROUND	TO	SPL G	-
3	BLUE	16	A2B SIG	TO	CP-400	3
4	-	-	-	TO	-	-

LOCATOR CODE: -					SPLICE G	
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	YEL/GRN	16	GROUND	TO	CJ-200	A
-	YEL/GRN	16	GROUND	TO	CJ-400	A
-	YEL/GRN	16	GROUND	TO	CP-400	2
-	YEL/GRN	16	GROUND	TO	CJ-401	2

LOCATOR CODE: -					SPLICE P	
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	BRN	16	BOOM FLD LT	TO	CJ-200	B
-	BRN	16	BOOM FLD LT	TO	CJ-201	B
-	BRN	16	BOOM FLD LT	TO	CJ-401	1

### Electrical Installation (99906984) Schematic View



NOTES:

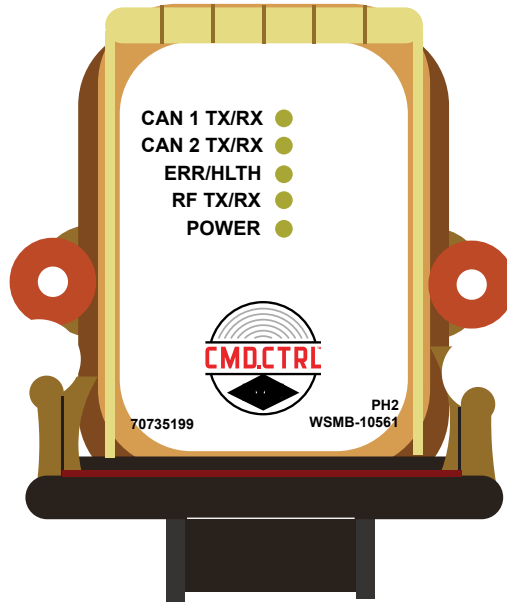
- 1. Wxx CONNECTIONS ARE FROM THE CRANE CONTROL HARNESS
- 2. JUMPER CONTACTOR TERMINALS CONNECTED WITH THIS LINE USING 77040282, 77044651 AND 89044398

**Electrical Installation (99906984) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	51728996	CABLE ASM-2GA 5/16RNGX3/8RNGX120LG R0	1
2.	51729017	CABLE ASM-2GA 5/16RNGX3/8RNGX25LG R0	1
3.	51729018	CABLE ASM-2GA 5/16RNGX3/8RNGX20LG R270	1
4.	51728999	CABLE ASM-2GA 5/16RNGX5/16RNGX100LG R0	1
5.	51729020	CABLE ASM-2GA 5/16RNGX5/16RNGX27.5LG R90	1
6.	51729021	CABLE ASM-2GA 5/16RNGX5/16RNGX38LG R90	1
7.	51729023	CABLE ASM-2GA 5/16RNGX5/16RNGX22LG R270	1
8.	51729022	CABLE ASM-2GA 5/16RNGX5/16RNGX20LG R270	1
9.	51729024	CABLE ASM-2GA 5/16RNGX5/16RNGX23LG R270	1
10.	51729019	CABLE ASM-2GA 5/16RNGX5/16RNGX19LG R270	1
11.	71570923	WINCH-DC3000 12VDC	1
12.	77041936	CONTACTOR-WINCH 12V DC3000	1
13.	73511506	POWER UNIT-0.151 CU.IN. 12VDC MTE	1
14.	77050839	SOLENOID 500 AMP 12VDC TE SIDE MOUNT	2
15.	77040282	TERM-PIGBAC FVD 16/14GA .25TAB	1
16.	77044651	TERM-RING .38 STUD 16-14 GA	1
17.	89044398	WIRE-16GA BLACK STRD TYPE GPT	1
REV. INITIAL RELEASE			

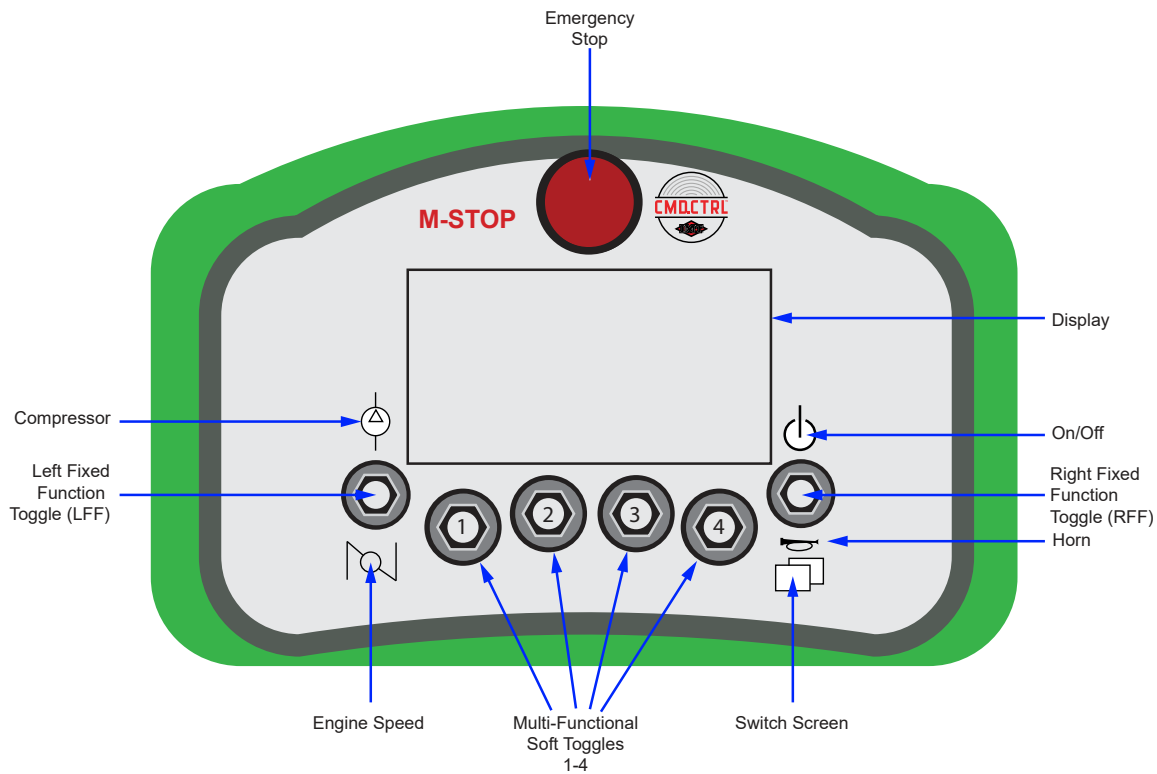
**Section - 7** **CMD.CTRL**

# Base Unit (70735199)



BASE UNIT WIRING TABLE	
PIN	SIGNAL NAME
P1:1	+VDC IN
P1:2	UNUSED
P1:3	UNUSED
P1:4	CAN H1
P1:5	CAN L1
P1:6	UNUSED
P1:7	CAN H2
P1:8	CAN L2
P1:9	UNUSED
P1:10	RS-232TX
P1:11	RS-232RX
P1:12	-VDC IN

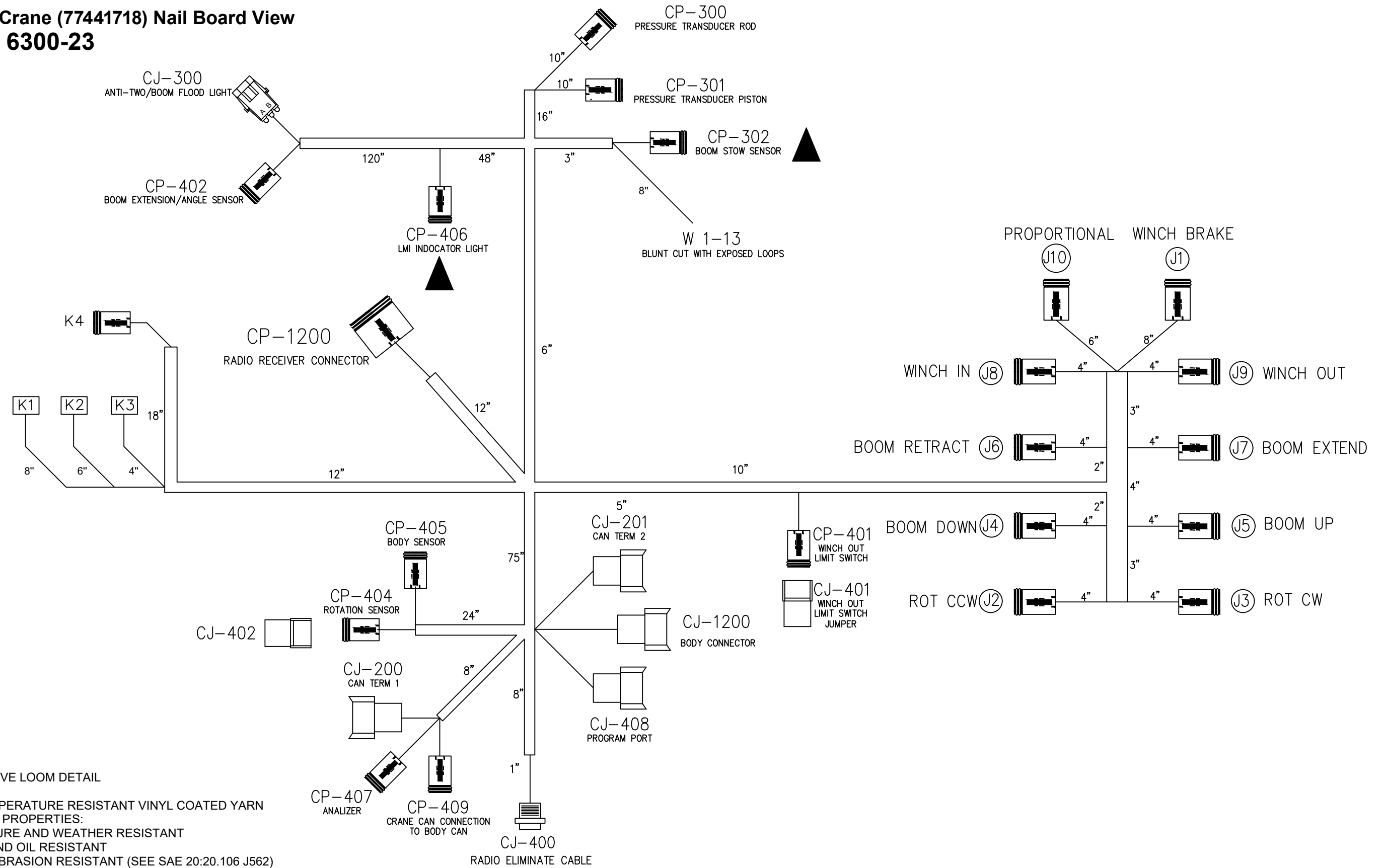
# Handheld Remote, Toggles & Icons (70735198)



TOGGLE NAME	DESCRIPTION	TOGGLE STYLE
Right Fixed Function (RFF) UP	<ul style="list-style-type: none"> <li>• TX ON / OFF</li> <li>• Association</li> </ul>	Three-Position Momentary
Right Fixed Function (RFF) DOWN	<ul style="list-style-type: none"> <li>• Horn</li> <li>• Menu</li> </ul>	Three-Position Momentary
Soft Toggles 1 – 4	Functions will change based on the icons that are being displayed on the screen	Three-Position Momentary
Left Fixed Function (LFF) UP	<ul style="list-style-type: none"> <li>• Compressor</li> </ul>	Three-Position Momentary
Left Fixed Function (LFF) DOWN	<ul style="list-style-type: none"> <li>• RPM HI / LO</li> </ul>	Three-Position Momentary
Emergency Stop	Machine Stop	Maintained

**PLEASE READ AND FOLLOW MANUAL PART NUMBER 91728524, CMD.CTRL CRANE OPERATOR'S MANUAL FOR STEP-BY-STEP INSTRUCTIONS ON HOW TO OPERATE THE CMD.CTRL RADIO REMOTE AND BASE.**

**Harness SP Crane (77441718) Nail Board View  
530023 & 6300-23**



**PROTECTIVE LOOM DETAIL**

HIGH TEMPERATURE RESISTANT VINYL COATED YARN  
PHYSICAL PROPERTIES:

- MOISTURE AND WEATHER RESISTANT
- FIRE AND OIL RESISTANT
- HIGH ABRASION RESISTANT (SEE SAE 20:20.106 J562)
- TEMPERATURE RESISTANT FROM +280°F TO -65°F

YARN COLOR TO BE BLACK WITH YELLOW STRIPING

YARN SHOULD BE BRAIDED WITH WEAVE TIGHTNESS OF 12 PICKS PER INCH

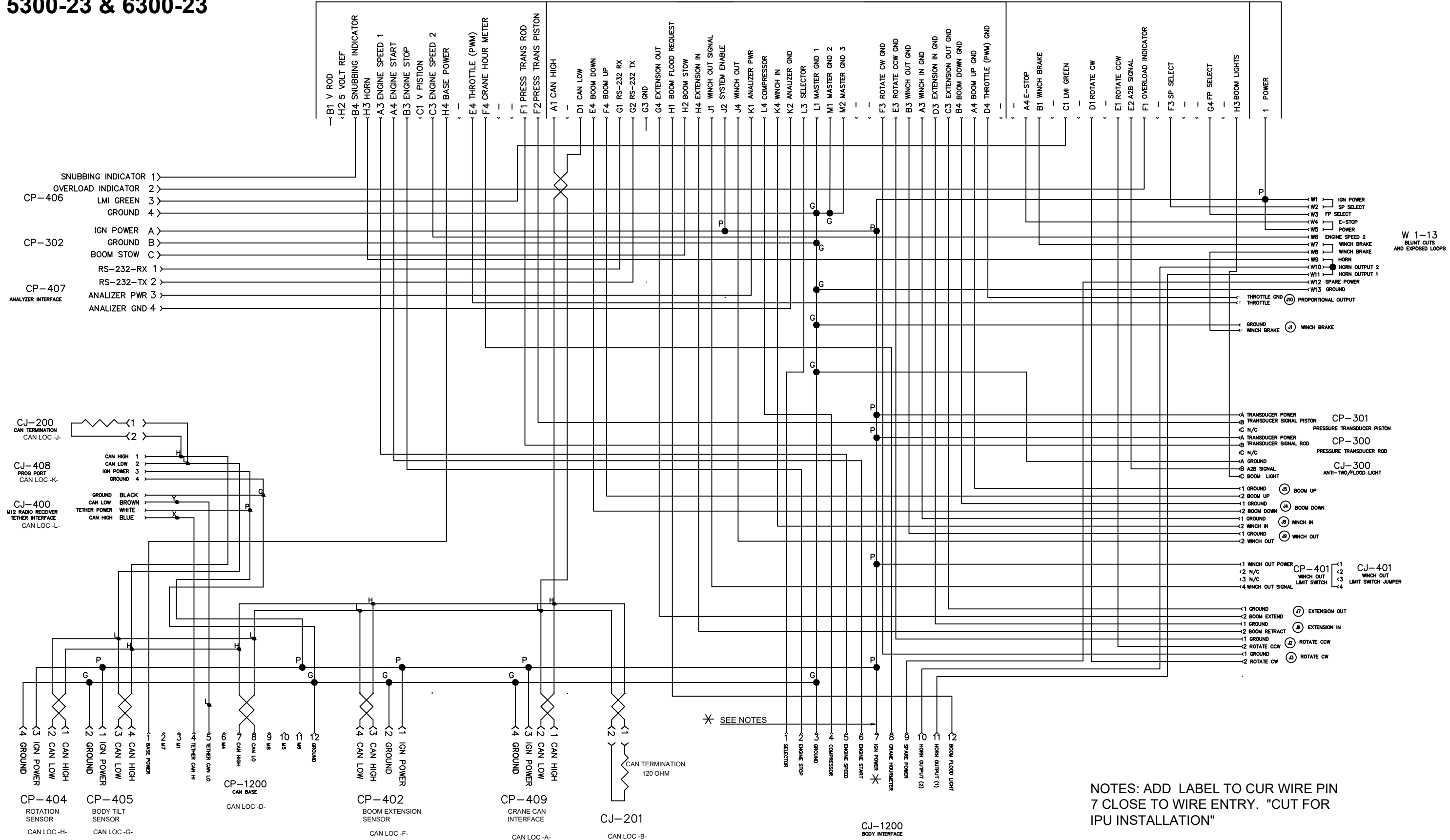
# Harness SP Crane (77441718) Schematic View 5300-23 & 6300-23

K1

K2

K3

K4



\* SEE NOTES

NOTES: ADD LABEL TO CUR WIRE PIN 7 CLOSE TO WIRE ENTRY. "CUT FOR IPU INSTALLATION"

### Harness SP Crane (77441718) Circuit Chart View 5300-23 & 6300-23

LOCATOR CODE: K1		MOLEX:064319-3219 64319-1201				
TERM:0643221029, 0643231039				SEAL: 643251010, 643251023		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A1	-	-	-	TO	-	-
A2	-	-	-	TO	-	-
A3	WHT	20	ENGINE SPEED 1	TO	CJ-1200	5
A4	WHT	20	ENGINE START	TO	CJ-1200	6
B1	-	-	-	TO	-	-
B2	-	-	-	TO	-	-
B3	WHT	20	ENGINE STOP	TO	CJ-1200	2
B4	WHT	20	SNUBBING INDICATOR	TO	CP-406	1
C1	-	-	-	TO	-	-
C2	-	-	-	TO	-	-
C3	WHT	20	ENGINE SPEED 2	TO	W6	-
C4	-	-	-	TO	-	-
D1	-	-	-	TO	-	-
D2	-	-	-	TO	-	-
D3	-	-	-	TO	-	-
D4	-	-	-	TO	-	-
E1	-	-	-	TO	-	-
E2	-	-	-	TO	-	-
E3	-	-	-	TO	-	-
E4	WHT	20	THROTTLE	TO	J10	2
F1	WHT	20	PRESS TRANS ROD	TO	CP-300	B
F2	WHT	20	PRESS TRANS PISTON	TO	CP-301	B
F3	-	-	-	TO	-	-
F4	WHT	20	CRANE HR METER	TO	CJ-1200	8
G1	-	-	-	TO	-	-
G2	-	-	-	TO	-	-
G3	-	-	-	TO	-	-
G4	-	-	-	TO	-	-
H1	-	-	-	TO	-	-
H2	RED	16	5 VOLT REF	TO	SPL R	-
H3	WHT	16	HORN	TO	W9	-
H4	RED	16	BASE POWER	TO	CP-1200	1

LOCATOR CODE: K2		MOLEX:064320-3311, 64320-1301				
TERM:0643221029, 0643231039, *0643221239				SEAL:643251010, 643251023		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A1	YELLOW	*20	CAN HIGH	TO	SPL H	-
A2	-	-	-	TO	-	-
A3	BLK	20	WINCH IN GND	TO	J8	1
A4	BLK	20	BOOM UP GND	TO	J5	1
B1	-	-	-	TO	-	-
B2	-	-	-	TO	-	-
B3	BLK	20	WINCH OUT GND	TO	J9	1
B4	BLK	20	BOOM DOWN GND	TO	J4	1
C1	-	-	-	TO	-	-
C2	-	-	-	TO	-	-
C3	BLK	20	EXTENSION OUT GND	TO	J7	1
C4	-	-	-	TO	-	-
D1	GREEN	*20	CAN LOW	TO	SLP L	-
D2	-	-	-	TO	-	-
D3	BLK	20	EXTENSION IN GND	TO	J6	1
D4	BLK	20	THROTTLE GND	TO	J10	1
E1	-	-	-	TO	-	-
E2	-	-	-	TO	-	-
E3	BLK	20	ROTATE CCW GND	TO	J2	1
E4	WHT	20	BOOM DOWN	TO	J4	2
F1	-	-	-	TO	-	-
F2	-	-	-	TO	-	-
F3	BLK	20	ROTATE CW GND	TO	J3	1
F4	WHT	20	BOOM UP	TO	J5	2
G1	WHT	20	RS-232-RX	TO	CP-407	1
G2	WHT	20	RS-232-TX	TO	CP-407	2
G3	-	-	-	TO	-	-
G4	WHT	20	EXTENSION OUT	TO	J7	2
H1	WHT	20	BOOM FLOOD REQ	TO	CJ-1200	12
H2	WHT	20	BOOM STOW	TO	CP-302	C
H3	-	-	-	TO	-	-
H4	WHT	20	EXTENSION IN	TO	J6	2
J1	WHT	20	WINCH OUT SIGNAL	TO	CP-401	4
J2	RED	20	SYSTEM ENABLE	TO	SPL P	-
J3	-	-	-	TO	-	-
J4	WHT	20	WINCH OUT	TO	J9	2
K1	RED	20	ANALIZER PWR	TO	CP-407	3
K2	BLACK	20	ANALIZER GND	TO	CP-407	4
K3	-	-	-	TO	-	-
K4	WHT	20	WINCH IN	TO	J8	2
L1	BLACK	16	MASTER GROUND 1	TO	SPL G	-
L2	-	-	-	TO	-	-
L3	WHT	16	SELECTOR	TO	CJ-1200	1
L4	WHT	16	COMPRESSOR	TO	CJ-1200	4
M1	BLACK	16	MASTER GROUND 2	TO	SPL G	-
M2	BLACK	16	MASTER GROUND3	TO	SPL G	-
M3	-	-	-	TO	-	-
M4	-	-	-	TO	-	-

LOCATOR CODE: K3		MOLEX:064319-1216 64319-1201				
TERM:0643221029, 0643231039				SEAL: 643251010, 643251023		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A1	-	-	-	TO	-	-
A2	-	-	-	TO	-	-
A3	-	-	-	TO	-	-
A4	WHT	20	E-STOP	TO	W4	-
B1	WHT	20	WINCH BRAKE	TO	W7	-
B2	-	-	-	TO	-	-
B3	-	-	-	TO	-	-
B4	-	-	-	TO	-	-
C1	WHT	20	LMI GREEN	TO	CP-406	3
C2	-	-	-	TO	-	-
C3	-	-	-	TO	-	-
C4	-	-	-	TO	-	-
D1	WHT	20	ROTATE CW	TO	J3	2
D2	-	-	-	TO	-	-
D3	-	-	-	TO	-	-
D4	-	-	-	TO	-	-
E1	WHT	20	ROTATE CCW	TO	J2	2
E2	WHT	20	A2B SIGNAL	TO	CJ-300	B
E3	-	-	-	TO	-	-
E4	-	-	-	TO	-	-
F1	WHT	20	OVERLOAD INDICATOR	TO	CP-406	2
F2	-	-	-	TO	-	-
F3	WHT	16	SP SELECT	TO	W2	-
F4	-	-	-	TO	-	-
G1	-	-	-	TO	-	-
G2	-	-	-	TO	-	-
G3	-	-	-	TO	-	-
G4	WHT	16	FP SELECT	TO	W3	-
H1	-	-	-	TO	-	-
H2	-	-	-	TO	-	-
H3	WHT	16	BOOM LIGHTS	TO	CJ-300	C
H4	-	-	-	TO	-	-

LOCATOR CODE: K4		SUMITOMO: 60984824				
TERM: 8100-3222				SEAL: 7165-1346		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	RED	6	POWER	TO	SPL P	-

Harness-SP Crane CMD Ctrl - Hydraulic (77441718) Circuit Chart View 5300-23 & 6300-23

LOCATOR CODE: CP-1200 DEUTSCH: DTM06-12SA
TERM: 0462-005-20141 WEDGE: WM12S CAVITY PLUG: 0413-204-2005
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 RED 16 BASE POWER TO K1 H4
2 - - - TO - -
3 - - - TO - -
4 YELLOW - TETHER CAN HI TO SPL X -
5 GREEN - TETHER CAN LO TO SPL Y -
6 - - - TO - -
7 YELLOW 20 CAN HIGH TO SPL H -
8 GREEN 20 CAN LOW TO SPL L -
9 - - - TO - -
10 - - - TO - -
11 - - - TO - -
12 BLK 16 GROUND TO SPL G -

LOCATOR CODE: CP-402 DEUTSCH: DT06-4S
TERM: 0462-201-16141 WEDGE: W4S PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 RED 16 IGN POWER TO SPL P -
2 BLK 16 GROUND TO SPL G -
3 YELLOW 18 CAN HIGH TO SPL H -
4 GREEN 18 CAN LOW TO SPL L -

LOCATOR CODE: CP-409 DEUTSCH: DT06-4S
TERM: 0462-201-16141 WEDGE: W4S PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 YELLOW 18 CAN HIGH TO SPL H -
2 GREEN 18 CAN LOW TO SPL L -
3 RED 14 IGN POWER TO SPL P -
4 BLK 14 GROUND TO SPL G -

LOCATOR CODE: J7 DEUTSCH: DT06-2S
TERM: 0462-201-16141 WEDGE: W2S
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 BLK 20 EXTENSION OUT GND TO K2 C3
2 WHT 20 EXTENSION OUT TO K2 G4

LOCATOR CODE: CJ-1200 DEUTSCH: DT04-12PA
TERM: 0460-202-16141 WEDGE: W12P
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 WHT 16 SELECTOR TO K2 L3
2 WHT 20 ENGINE STOP TO K1 B3
3 BLK 14 GROUND TO SPL G -
4 WHT 16 COMPRESSOR TO K2 L4
5 WHT 20 ENGINE SPEED TO K1 A3
6 WHT 20 ENGINE START TO K1 A4
7 RED 14 IGN POWER TO SPL P -
8 WHT 20 CRANE HOUR M TO K1 F4
9 RED 16 SPARE POWER TO W12 -
10 WHT 16 HORN OUTPUT 2 TO W10 -
11 WHT 16 HORN OUTPUT 1 TO W11 -
12 WHT 20 BOOM FLOOD REQ TO K2 H1

LOCATOR CODE: CP-404 DEUTSCH: DT06-4S
TERM: 0462-201-16141 WEDGE: W4S PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 YELLOW 18 CAN HIGH TO SPL H -
2 GREEN 18 CAN LOW TO SPL L -
3 RED 16 IGN POWER TO SPL P -
4 BLK 16 GROUND TO SPL G -

LOCATOR CODE: CJ-200 DEUTSCH: DTM04-2P
TERM: 0460-202-20141 TERMINATION: DTM06-2SP006 WEDGE: WM-2P
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
2 YELLOW 20 CAN HIGH TO SPL H -
1 GREEN 20 CAN LOW TO SPL L -

LOCATOR CODE: J8 DEUTSCH: DT06-2S
TERM: 0462-201-16141 WEDGE: W2S
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 BLK 20 WINCH IN GND TO K2 A3
2 WHT 20 WINCH IN TO K2 K4

LOCATOR CODE: CJ-400 BRAD/HARRIS: 8R5A00A18A120
CAP: 80012 (TIE TO HARNESS) OR EQUIV
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
- BRN 22 TETHER CAN LO TO SPL Y -
- WHT 22 TETHER PWR TO SPL P -
- BLUE 22 TETHER CAN HI TO SPL X -
- BLK 22 GROUND TO SPL G -

LOCATOR CODE: CP-405 DEUTSCH: DT06-4S
TERM: 0462-201-16141 WEDGE: W4S PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 RED 16 IGN POWER TO SPL P -
2 BLK 16 GROUND TO SPL G -
3 GREEN 18 CAN LOW TO SPL L -
4 YELLOW 18 CAN HIGH TO SPL H -

LOCATOR CODE: CJ-201 DEUTSCH: DTM04-2P
TERM: 0460-202-20141 TERMINATION: DTM06-2SP006 WEDGE: WM-2P
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 YELLOW 20 CAN HIGH TO SPL H -
2 GREEN 20 CAN LOW TO SPL L -

LOCATOR CODE: J9 DEUTSCH: DT06-2S
TERM: 0462-201-16141 WEDGE: W2S
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 BLK 20 WINCH OUT GROUND TO K2 B3
2 WHT 20 WINCH OUT TO K2 J4

LOCATOR CODE: CP-401 DEUTSCH: DT06-4S
TERM: 0462-201-16141 WEDGE: W4S PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 RED 18 WINCH OUT PWR TO SPL P -
2 - - - TO - -
3 - - - TO - -
4 WHT 20 WINCH OUT SIG TO K2 J1

LOCATOR CODE: CP-406 DEUTSCH: DT06-4S
TERM: 0462-201-16141 WEDGE: W4S PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 WHT 20 SNUBBING IND TO K1 B4
2 WHT 20 OVER LOAD IND TO K3 F1
3 WHT 20 LMI GREEN TO K3 C1
4 BLK 16 GROUND TO SPL G -

LOCATOR CODE: CJ-201 DEUTSCH: DTM04-2P
TERM: 0460-202-20141 TERMINATION: DTM06-2SP006 WEDGE: WM-2P
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 YELLOW 20 CAN HIGH TO SPL H -
2 GREEN 20 CAN LOW TO SPL L -

LOCATOR CODE: J10 DEUTSCH: DT06-2S
TERM: 0462-201-16141 WEDGE: W2S
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 BLK 20 THROTTLE GND TO K2 D4
2 WHT 20 THROTTLE TO K1 E4

LOCATOR CODE: CJ-401 DEUTSCH: DT04-4P
TERM: 0460-202-16141 WEDGE: W4P PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 WHT 18 WINCH OUT SIG TO CJ-401 4
2 - - - TO - -
3 - - - TO - -
4 WHT 18 WINCH OUT SIG TO CJ-401 1

LOCATOR CODE: CP-407 DEUTSCH: DT06-4S
TERM: 0462-201-16141 WEDGE: W4S PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 WHT 20 RS-232-RX TO K2 G1
2 WHT 20 RS-232-TX TO K2 G2
3 RED 20 ANALIZER PWR TO K2 K1
4 BLK 20 ANALIZER GND TO K2 K2

LOCATOR CODE: CJ-201 DEUTSCH: DTM04-2P
TERM: 0460-202-20141 TERMINATION: DTM06-2SP006 WEDGE: WM-2P
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 YELLOW 20 CAN HIGH TO SPL H -
2 GREEN 20 CAN LOW TO SPL L -

LOCATOR CODE: J11 DEUTSCH: DT06-2S
TERM: 0462-201-16141 WEDGE: W2S
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 BLK 16 GROUND TO SPL G -
2 WHT 16 WINCH BRAKE TO W8 -

LOCATOR CODE: CJ-402 DEUTSCH: DT04-4P
TERM: - WEDGE: W4P PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 - - - TO - -
2 - - - TO - -
3 - - - TO - -
4 - - - TO - -

LOCATOR CODE: CJ-408 DEUTSCH: DT04-4P
TERM: 0460-202-16141 WEDGE: W4P PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 YELLOW 18 CAN HIGH TO SPL H -
2 GREEN 18 CAN LOW TO SPL L -
3 RED 16 IGN POWER TO SPL P -
4 BLK 16 GROUND TO SPL G -

LOCATOR CODE: J12 DEUTSCH: DT06-2S
TERM: 0462-201-16141 WEDGE: W2S
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 BLK 20 ROTATE CCW GND TO K2 E3
2 WHT 20 ROTATE CCW TO K3 E1

LOCATOR CODE: CP-300 DEUTSCH: DT06-3S
TERM: 0462-201-16141 WEDGE: W3S PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
A RED 18 TRANS POWER TO SPL P -
B WHT 20 PRESS TRANS ROD TO K1 F1
C - - - TO - -

LOCATOR CODE: CJ-201 DEUTSCH: DTM04-2P
TERM: 0460-202-20141 TERMINATION: DTM06-2SP006 WEDGE: WM-2P
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 YELLOW 20 CAN HIGH TO SPL H -
2 GREEN 20 CAN LOW TO SPL L -

LOCATOR CODE: J10 DEUTSCH: DT06-2S
TERM: 0462-201-16141 WEDGE: W2S
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 BLK 20 THROTTLE GND TO K2 D4
2 WHT 20 THROTTLE TO K1 E4

LOCATOR CODE: CJ-402 DEUTSCH: DT04-4P
TERM: - WEDGE: W4P PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 - - - TO - -
2 - - - TO - -
3 - - - TO - -
4 - - - TO - -

LOCATOR CODE: CJ-408 DEUTSCH: DT04-4P
TERM: 0460-202-16141 WEDGE: W4P PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 YELLOW 18 CAN HIGH TO SPL H -
2 GREEN 18 CAN LOW TO SPL L -
3 RED 16 IGN POWER TO SPL P -
4 BLK 16 GROUND TO SPL G -

LOCATOR CODE: J13 DEUTSCH: DT06-2S
TERM: 0462-201-16141 WEDGE: W2S
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 BLK 20 ROTATE CW GND TO K2 F3
2 WHT 20 ROTATE CW TO K3 D1

LOCATOR CODE: CP-301 DEUTSCH: DT06-3S
TERM: 0462-201-16141 WEDGE: W3S PLUG: 114017
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
A RED 18 TRANS POWER TO SPL P -
B WHT 20 PRESS TRANS PISTON TO K1 F2
C - - - TO - -

LOCATOR CODE: CJ-201 DEUTSCH: DTM04-2P
TERM: 0460-202-20141 TERMINATION: DTM06-2SP006 WEDGE: WM-2P
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 YELLOW 20 CAN HIGH TO SPL H -
2 GREEN 20 CAN LOW TO SPL L -

LOCATOR CODE: J11 DEUTSCH: DT06-2S
TERM: 0462-201-16141 WEDGE: W2S
CAVITY COLOR GA. PRINT LABEL TO CON-SPLC CAVITY
1 BLK 16 GROUND TO SPL G -
2 WHT 16 WINCH BRAKE TO W8 -

Harness SP Crane (77441718) Circuit Chart View

5300-23 & 6300-23

LOCATOR CODE: -		SPLICE G				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	BLK	16	GROUND	TO	CP-1200	12
-	BLK	16	MASTER GROUND 1	TO	K2	L1
-	BLK	16	MASTER GROUND 2	TO	K2	M1
-	BLK	16	MASTER GROUND 3	TO	K2	M2
-	BLK	16	GROUND	TO	CP-302	B
-	BLK	22	GROUND	TO	CJ-400	BLK
-	BLK	16	GROUND	TO	CP-402	2
-	BLK	16	GROUND	TO	CP-404	4
-	BLK	16	GROUND	TO	CP-405	2
-	BLK	16	GROUND	TO	CP-406	4
-	BLK	16	GROUND	TO	CJ-408	4
-	BLK	14	GROUND	TO	CP-409	4
-	BLK	14	GROUND	TO	CJ-1200	3
-	BLK	16	GROUND	TO	W13	-
-	BLK	16	GROUND	TO	CJ-300	A
-	BLK	16	GROUND	TO	J1	1

LOCATOR CODE: -		SPLICE P				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	RED	6	POWER	TO	K4	1
-	RED	16	IGN POWER	TO	CP-302	A
-	RED	22	TEATHER POWER	TO	CJ-400	WHT
-	RED	16	IGN POWER	TO	CP-402	1
-	RED	16	IGN POWER	TO	CP-404	3
-	RED	16	IGN POWER	TO	CP-405	1
-	RED	16	IGN POWER	TO	CJ-408	3
-	RED	14	IGN POWER	TO	CP-409	3
-	RED	14	IGN POWER	TO	CJ-1200	7
-	RED	18	WINCH OUT POWER	TO	CP-401	1
-	RED	18	TRANS POWER	TO	CP-300	A
-	RED	18	TRANS POWER	TO	CP-301	A
-	RED	20	SYSTEM ENABLE	TO	K2	J2
-	RED	16	IGN POWER	TO	W1	-
-	RED	16	IGN POWER	TO	W5	-

LOCATOR CODE: -		SPLICE H				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	YELLOW	18	CAN HIGH	TO	CP-402	3
-	YELLOW	18	CAN HIGH	TO	CP-404	1
-	YELLOW	18	CAN HIGH	TO	CP-405	4
-	YELLOW	18	CAN HIGH	TO	CJ-408	1
-	YELLOW	18	CAN HIGH	TO	CP-409	1
-	YELLOW	20	CAN HIGH	TO	CJ-200	2
-	YELLOW	20	CAN HIGH	TO	CJ-201	1
-	YELLOW	20	CAN HIGH	TO	K2	A1
-	YELLOW	20	CAN HIGH	TO	CP-1200	7

LOCATOR CODE: -		SPLICE L				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	GREEN	18	CAN LOW	TO	CP-402	4
-	GREEN	18	CAN LOW	TO	CP-404	2
-	GREEN	18	CAN LOW	TO	CP-405	3
-	GREEN	18	CAN LOW	TO	CJ-408	2
-	GREEN	18	CAN LOW	TO	CP-409	2
-	GREEN	20	CAN LOW	TO	CJ-200	1
-	GREEN	20	CAN LOW	TO	CJ-201	2
-	GREEN	20	CAN LOW	TO	K2	D1
-	GREEN	20	CAN LOW	TO	CP-1200	8

LOCATOR CODE: W-13		BLUNT CUT WITH EXPOSED LOOP				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
W1	RED	16	IGN POWER	TO	SPL P	-
W2	WHT	16	SP SELECT	TO	K3	F3
W3	WHT	16	FP SELECT	TO	K3	G4
W4	WHT	20	E-STOP	TO	K3	A4
W5	RED	16	IGN POWER	TO	SPL P	-
W6	WHT	20	ENGINE SPEED 2	TO	K1	C3
W7	WHT	20	WINCH BRAKE	TO	K3	B1
W8	WHT	16	WINCH BRAKE	TO	J1	2
W9	WHT	16	HORN	TO	K1	H3
W10	WHT	16	HORN OUTPUT 2	TO	CJ-1200	10
W11	WHT	16	HORN OUTPUT 1	TO	CJ-1200	11
W12	RED	16	SPARE POWER	TO	CJ-1200	9
W13	BLK	16	GROUND	TO	SPL G	-

LOCATOR CODE: -		SPLICE X				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	YELLOW	20	TETHER CAN HI	TO	CP-1200	4
-	BLUE	22	TETHER CAN HI	TO	CJ-400	A

LOCATOR CODE: -		SPLICE Y				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	GREEN	20	TETHER CAN LO	TO	CP-1200	5
-	BRN	22	TETHER CAN LO	TO	CJ-400	A

NOTES:

1. UNLESS OTHERWISE NOTED, BRAIDING STOPS 4" FROM BACK OF CONNECTOR.

2. ALL DIMENSIONS ARE FROM WIRE INSERTION END OF CONNECTOR TO BREAK-OUT POINT IN HARNESS.

3. ALL WIRE TO BE GXL. EXCEPT 20 GA WILL BE TXL.

4. ORIENT CONNECTORS AS SHOWN.

5. CAN BUS WIRING ACCORDING TO J1939-15 USING WIRE TYPE SPECIFIED.. RIGHT HAND LAY. TWIST WIRES PER TABLE 2 (8 TO 11TWISTS PER FOOT.

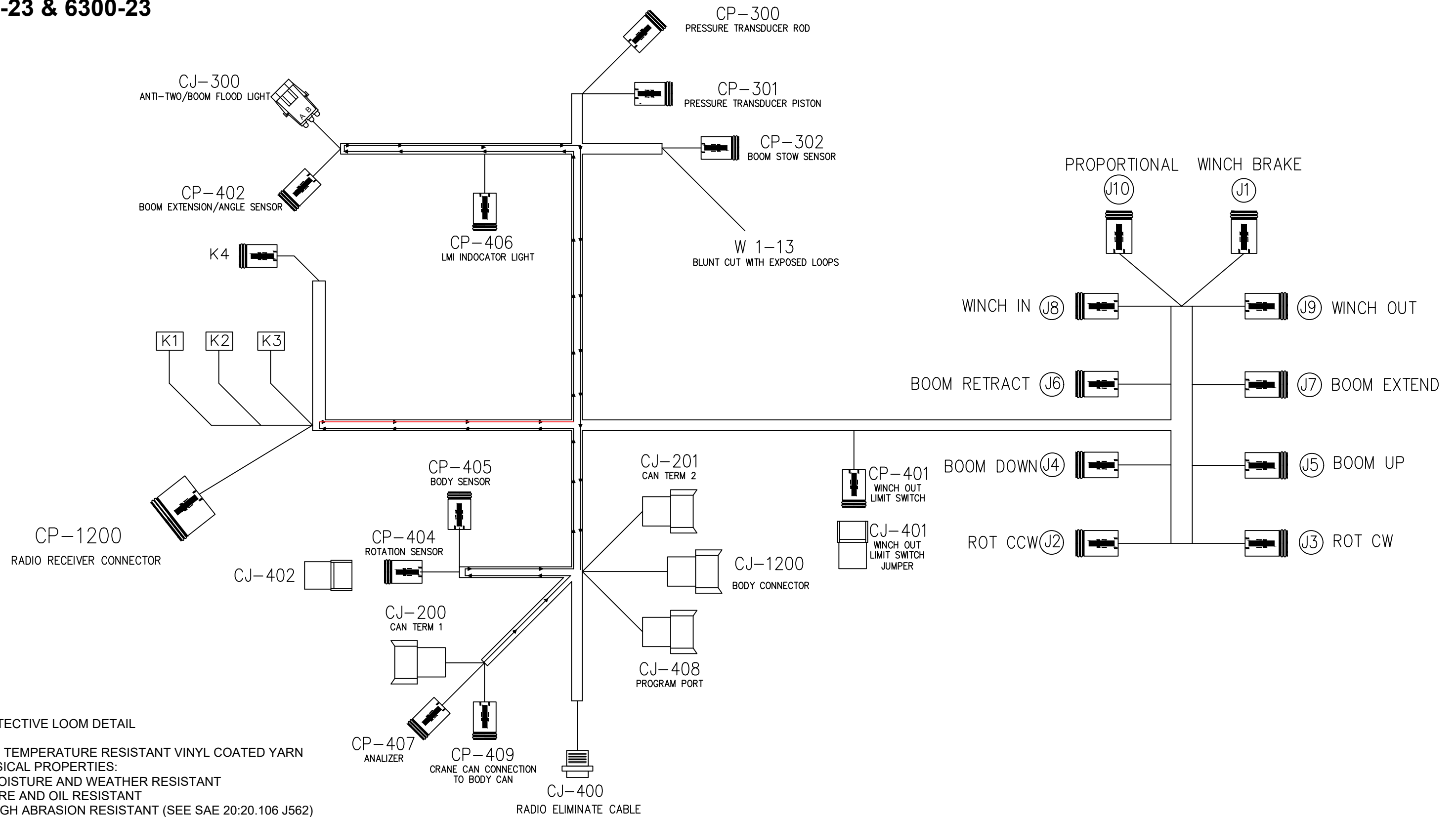
6. SEAL ALL BLUNT CUT WIRES WITH HEAT SHRINK.

7. ALL "CAN" CIRCUITS TO USE GOLD PLATED CONTACTS.

8. LABEL ALL CONNECTORS WITH LOCATOR CODE.

9.ADD DUST CAP TO ALL CONNECTORS MARKED. ▲

**Harness SP Crane (77441718) Can Bus Back Bone Routing View**  
**5300-23 & 6300-23**



**PROTECTIVE LOOM DETAIL**

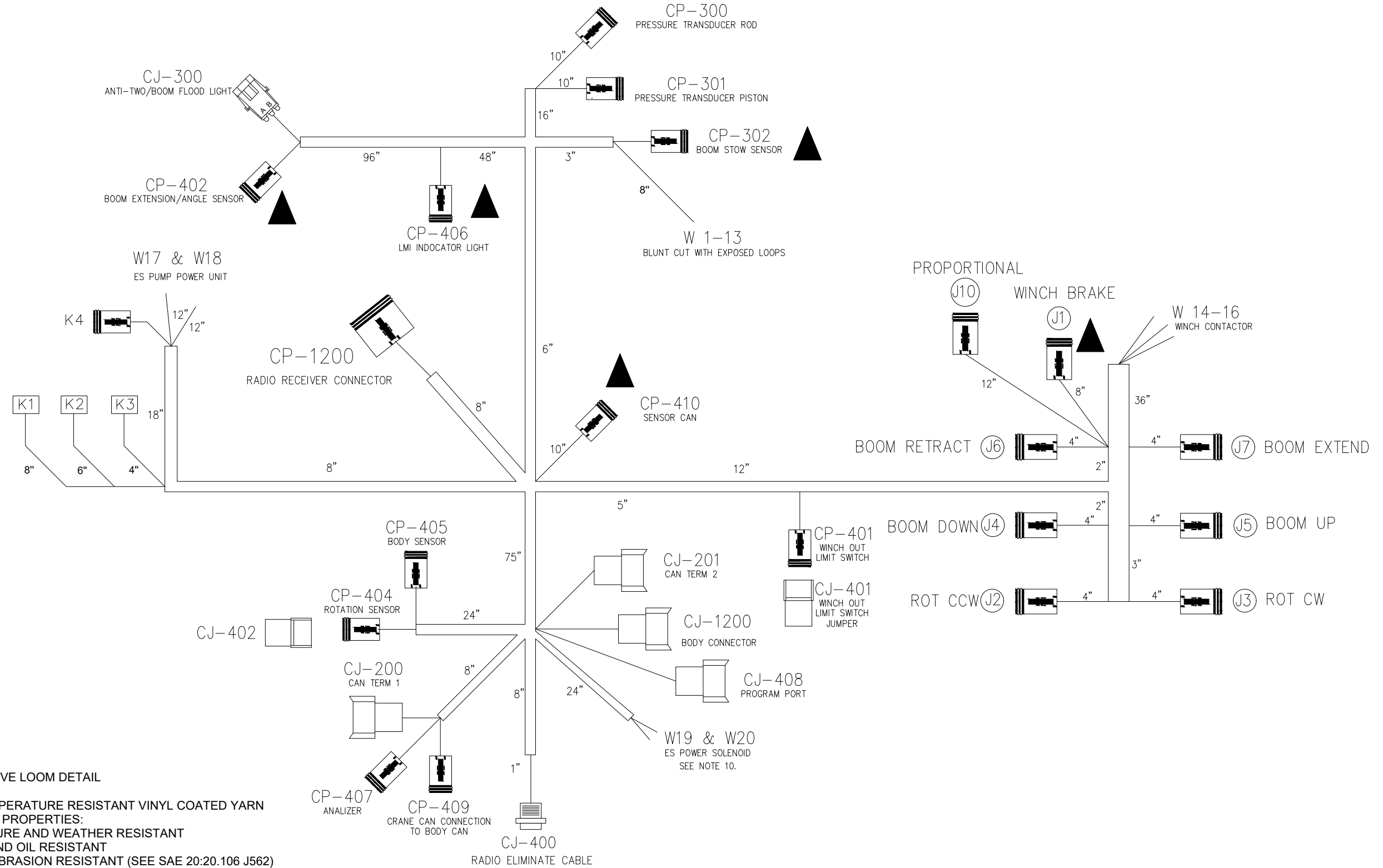
HIGH TEMPERATURE RESISTANT VINYL COATED YARN  
 PHYSICAL PROPERTIES:

- MOISTURE AND WEATHER RESISTANT
- FIRE AND OIL RESISTANT
- HIGH ABRASION RESISTANT (SEE SAE 20:20.106 J562)
- TEMPERATURE RESISTANT FROM +280°F TO -65°F

YARN COLOR TO BE BLACK WITH YELLOW STRIPING

YARN SHOULD BE BRAIDED WITH WEAVE TIGHTNESS OF 12 PICKS PER INCH

**Harness SP Crane (77441782) Nail Board View  
5300e-23 & 6300e-23**



**PROTECTIVE LOOM DETAIL**

HIGH TEMPERATURE RESISTANT VINYL COATED YARN

PHYSICAL PROPERTIES:

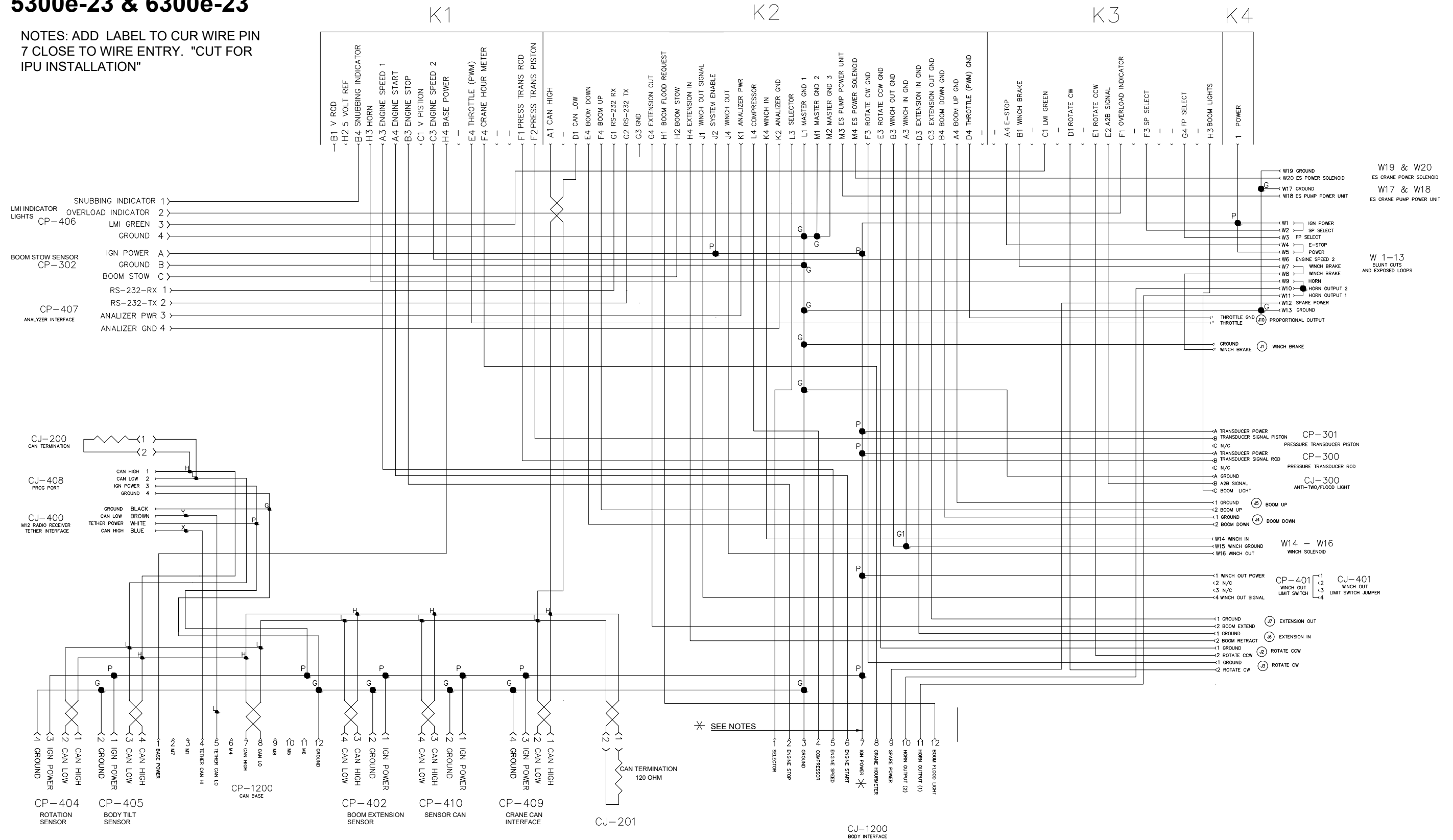
- MOISTURE AND WEATHER RESISTANT
- FIRE AND OIL RESISTANT
- HIGH ABRASION RESISTANT (SEE SAE 20:20.106 J562)
- TEMPERATURE RESISTANT FROM +280°F TO -65°F

YARN COLOR TO BE BLACK WITH YELLOW STRIPING

YARN SHOULD BE BRAIDED WITH WEAVE TIGHTNESS OF 12 PICKS PER INCH

# Harness SP Crane (77441782) Schematic View 5300e-23 & 6300e-23

NOTES: ADD LABEL TO CUR WIRE PIN 7 CLOSE TO WIRE ENTRY. "CUT FOR IPU INSTALLATION"



**Harness SP Crane (77441782) Circuit Chart View  
5300e-23 & 6300e-23**

LOCATOR CODE: K1		MOLEX:064319-3219 64319-1201				
TERM:0643221029, 0643231039				SEAL: 643251010, 643251023		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A1	-	-	-	TO	-	-
A2	-	-	-	TO	-	-
A3	WHT	20	ENGINE SPEED 1	TO	CJ-1200	5
A4	WHT	20	ENGINE START	TO	CJ-1200	6
B1	-	-	-	TO	-	-
B2	-	-	-	TO	-	-
B3	WHT	20	ENGINE STOP	TO	CJ-1200	2
B4	WHT	20	SNUBBING INDICATOR	TO	CP-406	1
C1	-	-	-	TO	-	-
C2	-	-	-	TO	-	-
C3	WHT	20	ENGINE SPEED 2	TO	W6	-
C4	-	-	-	TO	-	-
D1	-	-	-	TO	-	-
D2	-	-	-	TO	-	-
D3	-	-	-	TO	-	-
D4	-	-	-	TO	-	-
E1	-	-	-	TO	-	-
E2	-	-	-	TO	-	-
E3	-	-	-	TO	-	-
E4	WHT	20	THROTTLE	TO	J10	2
F1	WHT	20	PRESS TRANS ROD	TO	CP-300	B
F2	WHT	20	PRESS TRANS PISTON	TO	CP-301	B
F3	-	-	-	TO	-	-
F4	WHT	20	CRANE HR METER	TO	CJ-1200	8
G1	-	-	-	TO	-	-
G2	-	-	-	TO	-	-
G3	-	-	-	TO	-	-
G4	-	-	-	TO	-	-
H1	-	-	-	TO	-	-
H2	RED	16	5 VOLT REF	TO	SPL R	-
H3	WHT	16	HORN	TO	W9	-
H4	RED	16	BASE POWER	TO	CP-1200	1

LOCATOR CODE: K2		MOLEX:064320-3311, 64320-1301				
TERM:0643221029, 0643231039, *0643221239				SEAL:643251010, 643251023		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A1	YELLOW	*20	CAN HIGH	TO	SPL H	-
A2	-	-	-	TO	-	-
A3	BLK	20	WINCH IN GND	TO	SPL G1	-
A4	BLK	20	BOOM UP GND	TO	J5	1
B1	-	-	-	TO	-	-
B2	-	-	-	TO	-	-
B3	BLK	20	WINCH OUT GND	TO	SPL G1	-
B4	BLK	20	BOOM DOWN GND	TO	J4	1
C1	-	-	-	TO	-	-
C2	-	-	-	TO	-	-
C3	BLK	20	EXTENSION OUT GND	TO	J7	1
C4	-	-	-	TO	-	-
D1	GREEN	*20	CAN LOW	TO	SLP L	-
D2	-	-	-	TO	-	-
D3	BLK	20	EXTENSION IN GND	TO	J6	1
D4	BLK	20	THROTTLE GND	TO	J10	1
E1	-	-	-	TO	-	-
E2	-	-	-	TO	-	-
E3	BLK	20	ROTATE CCW GND	TO	J2	1
E4	WHT	20	BOOM DOWN	TO	J4	2
F1	-	-	-	TO	-	-
F2	-	-	-	TO	-	-
F3	BLK	20	ROTATE CW GND	TO	J3	1
F4	WHT	20	BOOM UP	TO	J5	2
G1	WHT	20	RS-232-RX	TO	CP-407	1
G2	WHT	20	RS-232-TX	TO	CP-407	2
G3	-	-	-	TO	-	-
G4	WHT	20	EXTENSION OUT	TO	J7	2
H1	WHT	20	BOOM FLOOD REQ	TO	CJ-1200	12
H2	WHT	20	BOOM STOW	TO	CP-302	C
H3	-	-	-	TO	-	-
H4	WHT	20	EXTENSION IN	TO	J6	2
J1	WHT	20	WINCH OUT SIGNAL	TO	CP-401	4
J2	RED	20	SYSTEM ENABLE	TO	SPL P	-
J3	-	-	-	TO	-	-
J4	WHT	20	WINCH OUT	TO	W16	-
K1	RED	20	ANALIZER PWR	TO	CP-407	3
K2	BLACK	20	ANALIZER GND	TO	CP-407	4
K3	-	-	-	TO	-	-
K4	WHT	20	WINCH IN	TO	W14	-
L1	BLACK	16	MASTER GROUND 1	TO	SPL G	-
L2	-	-	-	TO	-	-
L3	WHT	16	SELECTOR	TO	CJ-1200	1
L4	WHT	16	COMPRESSOR	TO	CJ-1200	4
M1	BLACK	16	MASTER GROUND 2	TO	SPL G	-
M2	BLACK	16	MASTER GROUND3	TO	SPL G	-
M3	PNK	16	ES PUMP	TO	W18	-
M4	PNK	16	ES POWER SOLENOID	TO	W20	-

LOCATOR CODE: K3		MOLEX:064319-1216 64319-1201				
TERM:0643221029, 0643231039				SEAL: 643251010, 643251023		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A1	-	-	-	TO	-	-
A2	-	-	-	TO	-	-
A3	-	-	-	TO	-	-
A4	WHT	20	E-STOP	TO	W4	-
B1	WHT	20	WINCH BRAKE	TO	W7	-
B2	-	-	-	TO	-	-
B3	-	-	-	TO	-	-
B4	-	-	-	TO	-	-
C1	WHT	20	LMI GREEN	TO	CP-406	3
C2	-	-	-	TO	-	-
C3	-	-	-	TO	-	-
C4	-	-	-	TO	-	-
D1	WHT	20	ROTATE CW	TO	J3	2
D2	-	-	-	TO	-	-
D3	-	-	-	TO	-	-
D4	-	-	-	TO	-	-
E1	WHT	20	ROTATE CCW	TO	J2	2
E2	WHT	20	A2B SIGNAL	TO	CJ-300	B
E3	-	-	-	TO	-	-
E4	-	-	-	TO	-	-
F1	WHT	20	OVERLOAD INDICATOR	TO	CP-406	2
F2	-	-	-	TO	-	-
F3	WHT	16	SP SELECT	TO	W2	-
F4	-	-	-	TO	-	-
G1	-	-	-	TO	-	-
G2	-	-	-	TO	-	-
G3	-	-	-	TO	-	-
G4	WHT	16	FP SELECT	TO	W3	-
H1	-	-	-	TO	-	-
H2	-	-	-	TO	-	-
H3	WHT	16	BOOM LIGHTS	TO	CJ-300	C
H4	-	-	-	TO	-	-

LOCATOR CODE: K4		SUMITOMO: 60984824				
TERM: 8100-3222				SEAL: 7165-1346		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	RED	6	POWER	TO	SPL P	-

# Harness SP Crane (77441782) Circuit Chart View 5300e-23 & 6300e-23

LOCATOR CODE: CP-1200		DEUTSCH: DTM06-12SA				
TERM: 0462-005-20141		WEDGE: WM12S				
TERM: 0462-005-2031		CAVITY PLUG: 0413-204-2005				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	RED	16	BASE POWER	TO	K1	H4
2	-	-	-	TO	-	-
3	-	-	-	TO	-	-
4	YELLOW	-	TETHER CAN HI	TO	SPL X	-
5	GREEN	-	TETHER CAN LO	TO	SPL Y	-
6	-	-	-	TO	-	-
7	YELLOW	20	CAN HIGH	TO	SPL H	-
8	GREEN	20	CAN LOW	TO	SPL L	-
9	-	-	-	TO	-	-
10	-	-	-	TO	-	-
11	-	-	-	TO	-	-
12	BLK	16	GROUND	TO	SPL G	-

LOCATOR CODE: CJ-1200		DEUTSCH: DT04-12PA				
TERM: 0460-202-16141		WEDGE: W12P				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	WHT	16	SELECTOR	TO	K2	L3
2	WHT	20	ENGINE STOP	TO	K1	B3
3	BLK	14	GROUND	TO	SPL G	-
4	WHT	16	COMPRESSOR	TO	K2	L4
5	WHT	20	ENGINE SPEED	TO	K1	A3
6	WHT	20	ENGINE START	TO	K1	A4
7	RED	14	IGN POWER	TO	SPL P	-
8	WHT	20	CRANE HOUR M	TO	K1	F4
9	RED	16	SPARE POWER	TO	W12	-
10	WHT	16	HORN OUTPUT 2	TO	W10	-
11	WHT	16	HORN OUTPUT 1	TO	W11	-
12	WHT	20	BOOM FLOOD REQ	TO	K2	H1

LOCATOR CODE: CJ-400		BRAD/HARRIS: 8R5A00A18A120				
		CAP: 80012 (TIE TO HARNESS) OR EQUIV				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	BRN	22	TETHER CAN LO	TO	SPL Y	-
-	WHT	22	TETHER PWR	TO	SPL P	-
-	BLUE	22	TETHER CAN HI	TO	SPL X	-
-	BLK	22	GROUND	TO	SPL G	-

LOCATOR CODE: CP-401		DEUTSCH: DT06-4S				
TERM: 0462-201-16141		WEDGE: W4S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	RED	18	WINCH OUT PWR	TO	SPL P	-
2	-	-	-	TO	-	-
3	-	-	-	TO	-	-
4	WHT	20	WINCH OUT SIG	TO	K2	J1

LOCATOR CODE: CJ-401		DEUTSCH: DT04-4P				
TERM: 0460-202-16141		WEDGE: W4P				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	WHT	18	WINCH OUT SIG	TO	CJ-401	4
2	-	-	-	TO	-	-
3	-	-	-	TO	-	-
4	WHT	18	WINCH OUT SIG	TO	CJ-401	1

LOCATOR CODE: CJ-402		DEUTSCH: DT04-4P				
TERM: -		WEDGE: W4P				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	-	-	-	TO	-	-
2	-	-	-	TO	-	-
3	-	-	-	TO	-	-
4	-	-	-	TO	-	-

LOCATOR CODE: CP-402		DEUTSCH: DT06-4S				
TERM: 0462-201-16141		WEDGE: W4S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	RED	16	IGN POWER	TO	SPL P	-
2	BLK	16	GROUND	TO	SPL G	-
3	YELLOW	18	CAN HIGH	TO	SPL H	-
4	GREEN	18	CAN LOW	TO	SPL L	-

LOCATOR CODE: CP-404		DEUTSCH: DT06-4S				
TERM: 0462-201-16141		WEDGE: W4S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	YELLOW	18	CAN HIGH	TO	SPL H	-
2	GREEN	18	CAN LOW	TO	SPL L	-
3	RED	16	IGN POWER	TO	SPL P	-
4	BLK	16	GROUND	TO	SPL G	-

LOCATOR CODE: CP-405		DEUTSCH: DT06-4S				
TERM: 0462-201-16141		WEDGE: W4S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	RED	16	IGN POWER	TO	SPL P	-
2	BLK	16	GROUND	TO	SPL G	-
3	GREEN	18	CAN LOW	TO	SPL L	-
4	YELLOW	18	CAN HIGH	TO	SPL H	-

LOCATOR CODE: CP-406		DEUTSCH: DT06-4S				
TERM: 0462-201-16141		WEDGE: W4S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	WHT	20	SNUBBING IND	TO	K1	B4
2	WHT	20	OVER LOAD IND	TO	K3	F1
3	WHT	20	LMI GREEN	TO	K3	C1
4	BLK	16	GROUND	TO	SPL G	-

LOCATOR CODE: CP-407		DEUTSCH: DT06-4S				
TERM: 0462-201-16141		WEDGE: W4S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	WHT	20	RS-232-RX	TO	K2	G1
2	WHT	20	RS-232-TX	TO	K2	G2
3	RED	20	ANALYZER PWR	TO	K2	K1
4	BLK	20	ANALYZER GND	TO	K2	K2

LOCATOR CODE: CJ-408		DEUTSCH: DT04-4P				
TERM: 0460-202-16141		WEDGE: W4P				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	YELLOW	18	CAN HIGH	TO	SPL H	-
2	GREEN	18	CAN LOW	TO	SPL L	-
3	RED	16	IGN POWER	TO	SPL P	-
4	BLK	16	GROUND	TO	SPL G	-

LOCATOR CODE: CP-409		DEUTSCH: DT06-4S				
TERM: 0462-201-16141		WEDGE: W4S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	YELLOW	18	CAN HIGH	TO	SPL H	-
2	GREEN	18	CAN LOW	TO	SPL L	-
3	RED	14	IGN POWER	TO	SPL P	-
4	BLK	14	GROUND	TO	SPL G	-

LOCATOR CODE: CP-410		DEUTSCH: DT06-4S				
TERM: 0462-201-16141		WEDGE: W4S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	RED	14	IGN POWER	TO	SPL P	-
2	BLK	14	GROUND	TO	SPL G	-
3	YELLOW	18	CAN HIGH	TO	SPL H	-
4	GREEN	18	CAN LOW	TO	SPL L	-

LOCATOR CODE: CJ-200		DEUTSCH: DTM04-2P				
TERM: 0460-202-20141		TERMINATION: DTM06-2SP006				
		WEDGE: WM-2P				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
2	YELLOW	20	CAN HIGH	TO	SPL H	-
1	GREEN	20	CAN LOW	TO	SPL L	-

LOCATOR CODE: CJ-201		DEUTSCH: DTM04-2P				
TERM: 0460-202-20141		TERMINATION: DTM06-2SP006				
		WEDGE: WM-2P				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	YELLOW	20	CAN HIGH	TO	SPL H	-
2	GREEN	20	CAN LOW	TO	SPL L	-

LOCATOR CODE: J1		DEUTSCH: DT06-2S				
TERM: 0462-201-16141		WEDGE: W2S				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BLK	16	GROUND	TO	SPL G	-
2	WHT	16	WINCH BRAKE	TO	W8	-

LOCATOR CODE: J2		DEUTSCH: DT06-2S				
TERM: 0462-201-16141		WEDGE: W2S				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BLK	20	ROTATE CCW GND	TO	K2	E3
2	WHT	20	ROTATE CCW	TO	K3	E1

LOCATOR CODE: J3		DEUTSCH: DT06-2S				
TERM: 0462-201-16141		WEDGE: W2S				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BLK	20	ROTATE CW GND	TO	K2	F3
2	WHT	20	ROTATE CW	TO	K3	D1

LOCATOR CODE: J4		DEUTSCH: DT06-2S				
TERM: 0462-201-16141		WEDGE: W2S				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BLK	20	BOOM DOWN GND	TO	K2	B4
2	WHT	20	BOOM DOWN	TO	K2	E4

LOCATOR CODE: J5		DEUTSCH: DT06-2S				
TERM: 0462-201-16141		WEDGE: W2S				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BLK	20	BOOM UP GND	TO	K2	A4
2	WHT	20	BOOM UP	TO	K2	F4

LOCATOR CODE: J6		DEUTSCH: DT06-2S				
TERM: 0462-201-16141		WEDGE: W2S				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BLK	20	EXTENSION IN GND	TO	K2	D3
2	WHT	20	EXTENSION IN	TO	K2	H4

LOCATOR CODE: J7		DEUTSCH: DT06-2S				
TERM: 0462-201-16141		WEDGE: W2S				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BLK	20	EXTENSION OUT GND	TO	K2	C3
2	WHT	20	EXTENSION OUT	TO	K2	G4

LOCATOR CODE: J10		DEUTSCH: DT06-2S				
TERM: 0462-201-16141		WEDGE: W2S				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BLK	20	THROTTLE GND	TO	K2	D4
2	WHT	20	THROTTLE	TO	K1	E4

LOCATOR CODE: CP-300		DEUTSCH: DT06-3S				
TERM: 0462-201-16141		WEDGE: W3S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A	RED	18	TRANS POWER	TO	SPL P	-
B	WHT	20	PRESS TRANS ROD	TO	K1	F1
C	-	-	-	TO	-	-

LOCATOR CODE: CJ-300		PACKARD: 12010717				
TERM: 12124582		SEAL: 12015323/12089679				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A	BLK	16	GROUND	TO	SPL G	-
B	WHT	20	A2B SIG	TO	K3	E2
C	WHT	16	BOOM LIGHT	TO	K3	H3

LOCATOR CODE: CP-301		DEUTSCH: DT06-3S				
TERM: 0462-201-16141		WEDGE: W3S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A	RED	18	TRANS POWER	TO	SPL P	-
B	WHT	20	PRESS TRANS PISTON	TO	K1	F2
C	-	-	-	TO	-	-

LOCATOR CODE: CP-302		DEUTSCH: DT06-3S				
TERM: 0462-201-16141		WEDGE: W3S				
		PLUG: 114017				
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
A	RED	16	IGN POWER	TO	SPL P	-
B	BLK	16	GROUND	TO	SPL G	-
C	WHT	20	BOOM STOW	TO	K2	H2

### Harness SP Crane (77441782) Circuit chart View 5300e-23 & 6300e-23

LOCATOR CODE: -			SPLICE G			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	BLK	16	GROUND	TO	CP-1200	12
-	BLK	16	MASTER GROUND 1	TO	K2	L1
-	BLK	16	MASTER GROUND 2	TO	K2	M1
-	BLK	16	MASTER GROUND 3	TO	K2	M2
-	BLK	16	GROUND	TO	CP-302	B
-	BLK	22	GROUND	TO	CJ-400	BLK
-	BLK	16	GROUND	TO	CP-402	2
-	BLK	16	GROUND	TO	CP-404	4
-	BLK	16	GROUND	TO	CP-405	2
-	BLK	16	GROUND	TO	CP-406	4
-	BLK	16	GROUND	TO	CJ-408	4
-	BLK	14	GROUND	TO	CP-409	4
-	BLK	14	GROUND	TO	CJ-1200	3
-	BLK	16	GROUND	TO	W13	-
-	BLK	16	GROUND	TO	CJ-300	A
-	BLK	16	GROUND	TO	J1	1
-	BLK	14	GROUND	TO	CP-410	2
-	BLK	16	GROUND	TO	W17	-
-	BLK	16	GROUND	TO	W19	-

LOCATOR CODE: -			SPLICE P			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	RED	6	POWER	TO	K4	1
-	RED	16	IGN POWER	TO	CP-302	A
-	RED	22	TEATHER POWER	TO	CJ-400	WHT
-	RED	16	IGN POWER	TO	CP-402	1
-	RED	16	IGN POWER	TO	CP-404	3
-	RED	16	IGN POWER	TO	CP-405	1
-	RED	16	IGN POWER	TO	CJ-408	3
-	RED	14	IGN POWER	TO	CP-409	3
-	RED	14	IGN POWER	TO	CJ-1200	7
-	RED	18	WINCH OUT POWER	TO	CP-401	1
-	RED	18	TRANS POWER	TO	CP-300	A
-	RED	18	TRANS POWER	TO	CP-301	A
-	RED	20	SYSTEM ENABLE	TO	K2	J2
-	RED	16	IGN POWER	TO	W1	-
-	RED	16	IGN POWER	TO	W5	-
-	RED	14	IGN POWER	TO	CP-410	1

LOCATOR CODE: -			SPLICE X			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	YELLOW	20	TETHER CAN HI	TO	CP-1200	4
-	BLUE	22	TETHER CAN HI	TO	CJ-400	A

LOCATOR CODE: -			SPLICE Y			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	GREEN	20	TETHER CAN LO	TO	CP-1200	5
-	BRN	22	TETHER CAN LO	TO	CJ-400	A

LOCATOR CODE: -			SPLICE G1			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	BLK	20	WINCH IN GND	TO	K2	A3
-	BLK	20	WINCH OUT GND	TO	K2	B3
-	BLK	20	WINCH GROUND	TO	W15	-

LOCATOR CODE: -			SPLICE H			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	YELLOW	18	CAN HIGH	TO	CP-402	3
-	YELLOW	18	CAN HIGH	TO	CP-404	1
-	YELLOW	18	CAN HIGH	TO	CP-405	4
-	YELLOW	18	CAN HIGH	TO	CJ-408	1
-	YELLOW	18	CAN HIGH	TO	CP-409	1
-	YELLOW	20	CAN HIGH	TO	CJ-200	2
-	YELLOW	20	CAN HIGH	TO	CJ-201	1
-	YELLOW	20	CAN HIGH	TO	K2	A1
-	YELLOW	20	CAN HIGH	TO	CP-1200	7
-	YELLOW	18	CAN HIGH	TO	CP-410	3

LOCATOR CODE: -			SPLICE L			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	GREEN	18	CAN LOW	TO	CP-402	4
-	GREEN	18	CAN LOW	TO	CP-404	2
-	GREEN	18	CAN LOW	TO	CP-405	3
-	GREEN	18	CAN LOW	TO	CJ-408	2
-	GREEN	18	CAN LOW	TO	CP-409	2
-	GREEN	20	CAN LOW	TO	CJ-200	1
-	GREEN	20	CAN LOW	TO	CJ-201	2
-	GREEN	20	CAN LOW	TO	K2	D1
-	GREEN	20	CAN LOW	TO	CP-1200	8
-	GREEN	18	CAN LOW	TO	CP-410	4

LOCATOR CODE: W-13			BLUNT CUT WITH EXPOSED LOOP			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
W1	RED	16	IGN POWER	TO	SPL P	-
W2	WHT	16	SP SELECT	TO	K3	F3
W3	WHT	16	FP SELECT	TO	K3	G4
W4	WHT	20	E-STOP	TO	K3	A4
W5	RED	16	IGN POWER	TO	SPL P	-
W6	WHT	20	ENGINE SPEED 2	TO	K1	C3
W7	WHT	20	WINCH BRAKE	TO	K3	B1
W8	WHT	16	WINCH BRAKE	TO	J1	2
W9	WHT	16	HORN	TO	K1	H3
W10	WHT	16	HORN OUTPUT 2	TO	CJ-1200	10
W11	WHT	16	HORN OUTPUT 1	TO	CJ-1200	11
W12	RED	16	SPARE POWER	TO	CJ-1200	9
W13	BLK	16	GROUND	TO	SPL G	-

LOCATOR CODE: W14-W16			3M 7100164285			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
W14	WHT	20	WINCH IN	TO	K2	K4
W15	BLK	20	WINCH GROUND	TO	SPL G1	-
W16	WHT	20	WINCH OUT	TO	K2	J4

LOCATOR CODE: W17-W20			3M 7000132449			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
W17	BLK	16	GROUND	TO	SPLG	-
W18	PNK	16	ES PUMP	TO	K2	M3
W19	BLK	16	GROUND	TO	SPL G	-
W20	PNK	16	ES POWER SOLENOID	TO	K2	M4

**NOTES:**

1. UNLESS OTHERWISE NOTED, BRAIDING STOPS 4" FROM BACK OF CONNECTOR.

2. ALL DIMENSIONS ARE FROM WIRE INSERTION END OF CONNECTOR TO BREAK-OUT POINT IN HARNESS.

3. ALL WIRE TO BE GXL. EXCEPT 20 GA WILL BE TXL.

4. ORIENT CONNECTORS AS SHOWN.

5. CAN BUS WIRING ACCORDING TO J1939-15 USING WIRE TYPE SPECIFIED.. RIGHT HAND LAY. TWIST WIRES PER TABLE 2 (8 TO 11TWISTS PER FOOT.

6. SEAL ALL BLUNT CUT WIRES WITH HEAT SHRINK.

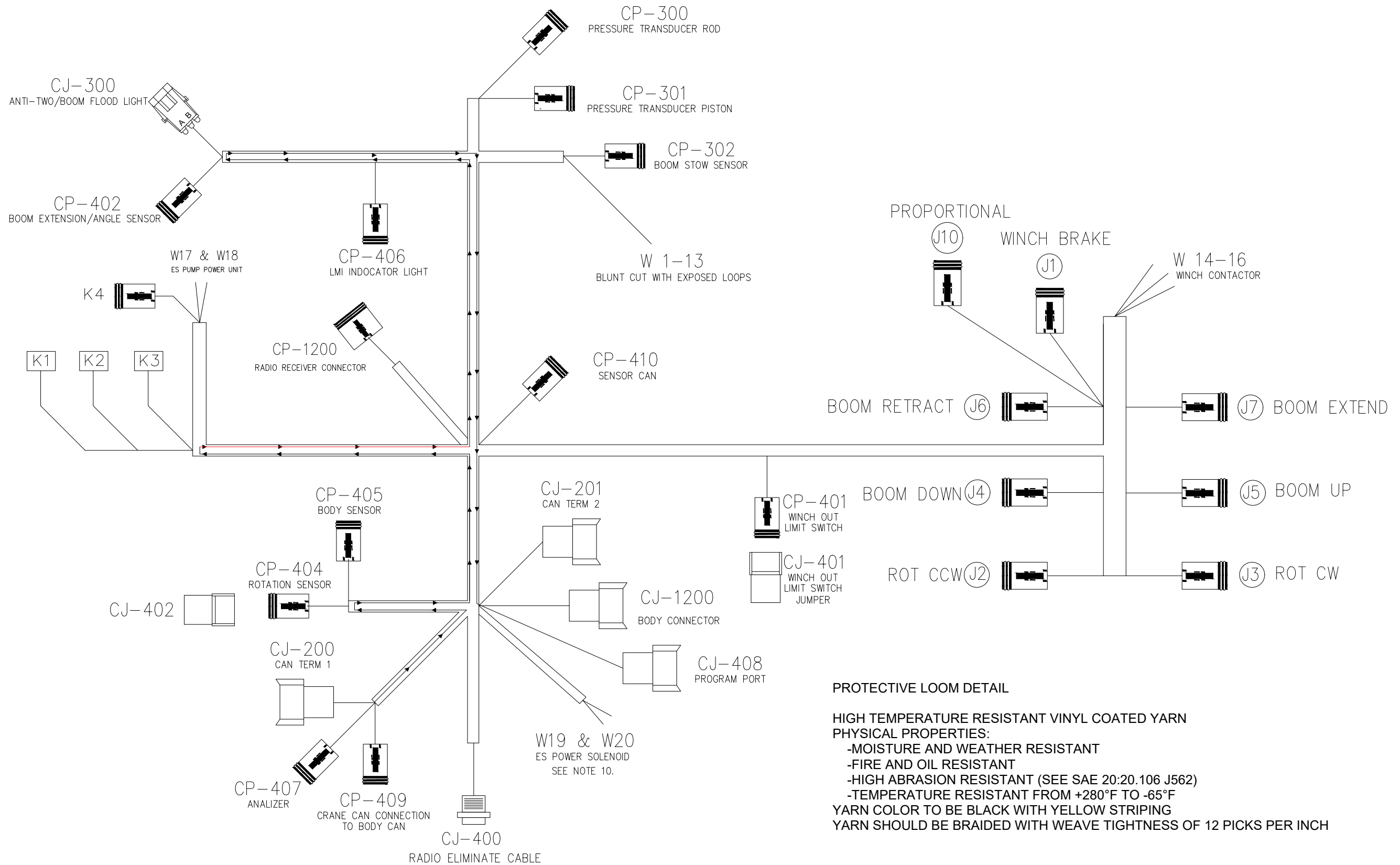
7. ALL "CAN" CIRCUITS TO USE GOLD PLATED CONTACTS.

8. LABEL ALL CONNECTORS WITH LOCATOR CODE.

 9. ADD DUST CAP TO ALL CONNECTORS MARKED.

10. CAP W19 AND W20 WITH NON-ADHESIVE LINED HEAT SHRINK

# Harness SP Crane (77441782) Can Bus Routing View 5300e-23 & 6300e-23



**PROTECTIVE LOOM DETAIL**

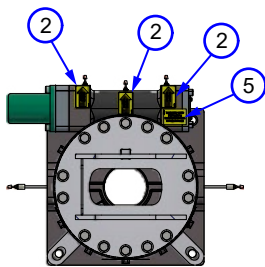
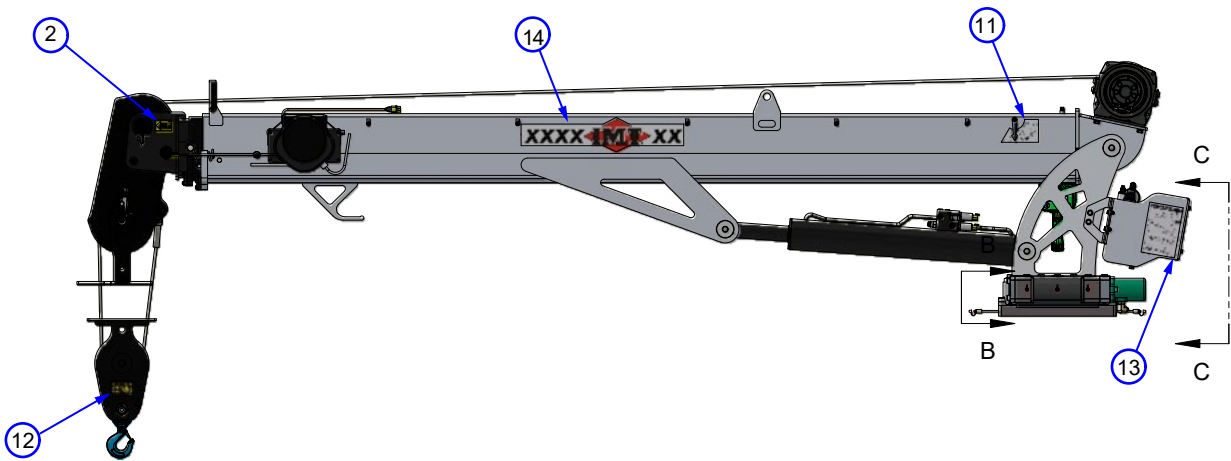
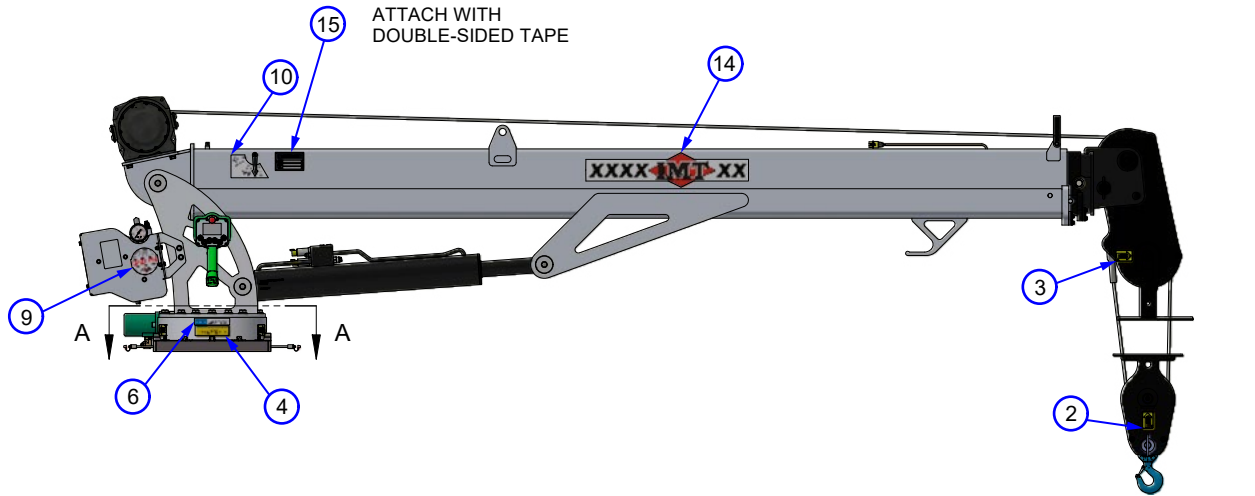
HIGH TEMPERATURE RESISTANT VINYL COATED YARN  
 PHYSICAL PROPERTIES:  
 -MOISTURE AND WEATHER RESISTANT  
 -FIRE AND OIL RESISTANT  
 -HIGH ABRASION RESISTANT (SEE SAE 20:20.106 J562)  
 -TEMPERATURE RESISTANT FROM +280°F TO -65°F  
 YARN COLOR TO BE BLACK WITH YELLOW STRIPING  
 YARN SHOULD BE BRAIDED WITH WEAVE TIGHTNESS OF 12 PICKS PER INCH

**Section - 8**

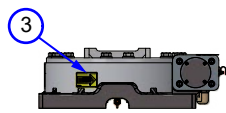
**General Information**

# Decal Placement (99906971) 5300-23 & 6300-23

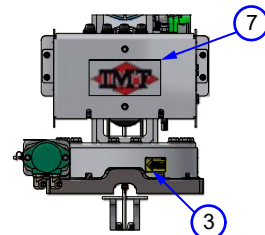
## HYDRAULIC



SECTION A-A  
SCALE 1:15



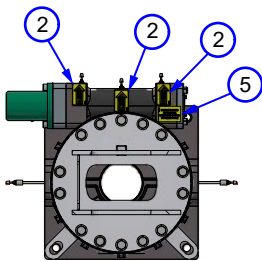
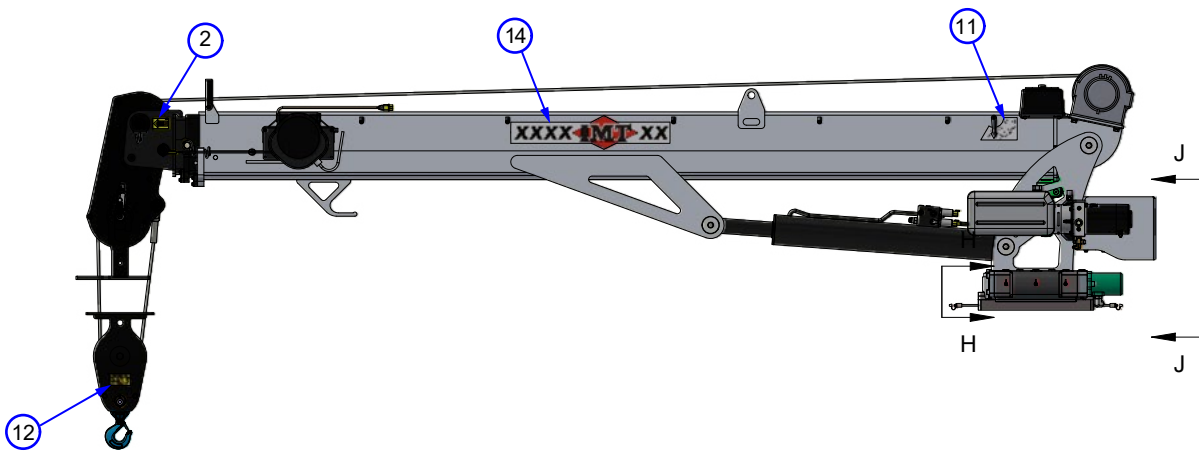
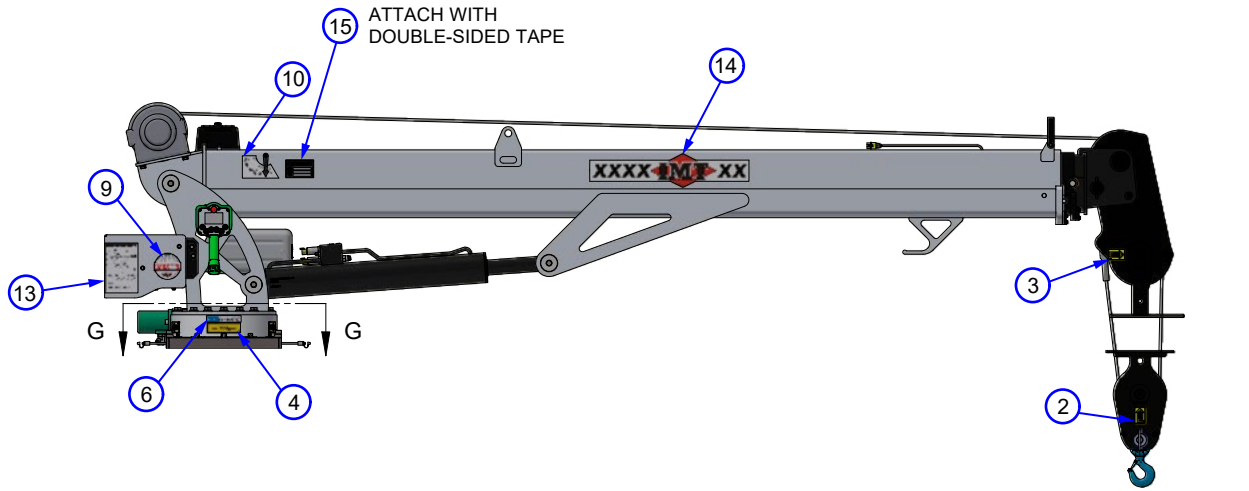
SECTION B-B  
SCALE 1:15



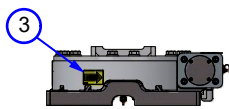
VIEW C-C  
SCALE 1:15

# Decal Placement (99906971) 5300e-23 & 6300e-23

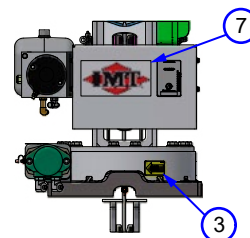
## ELECTRIC



SECTION G-G



SECTION H-H

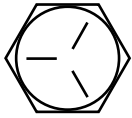

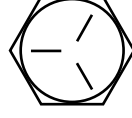



VIEW J-J

**Decal Placement (99906971) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	95728993	DECAL KIT-COMMON 3300-6300	1	
2.	70391612	DECAL-GREASE WEEKLY (LEFT)	6	
3.	70391613	DECAL-GREASE WEEKLY (RIGHT)	2	1
4.	70392399	DECAL-LUBRICATE WORM	1	1
5.	70392524	DECAL-ROTATE CRANE WHILE GREAS	1	1
6.	70395324	DECAL-ASME/ANSI B30.5-TELESCOPE	1	1
7.	70399195	DECAL-DIAMOND IMT 4.00X8.00 (REFL)	1	1
8.	70490167	DECAL-WARNING-PROP 65	1	1
9.	70490435	DECAL-CMD.CTRL LOGO	1	1
10.	71399136	DECAL-ANGLE IND RH SIII	1	1
11.	71399137	DECAL-ANGLE IND LH SIII	1	1
12.	70490576	DECAL-LOAD BLOCK RATING 4.3 TONS 5300-6300	1	
13.	70490538	DECAL-CAP CHART 5300 23	2	
	70490539	DECAL-CAP CHART 5300e 23		
	70490540	DECAL-CAP CHART 6300 23		
	70490541	DECAL-CAP CHART 6300e 23		
14.	70490562	DECAL-ID-5300 23	2	
	70490563	DECAL-ID-5300e 23		
	70490564	DECAL-ID-6300 23		
	70490565	DECAL-ID-6300e 23		
15.	70029119	PLACARD-SERIAL NUMBER	1	
REV. INITIAL RELEASE				

## Thread Torque Charts - Imperial

FINE THREAD TORQUE CHART (IMPERIAL)						COURSE THREAD TORQUE CHART (IMPERIAL)					
SIZE (DIA-TPI)	BOLT DIA. (INCHES)	GRADE 5		GRADE 8		SIZE (DIA-TPI)	BOLT DIA. (INCHES)	GRADE 5		GRADE 8	
											
		SAE J429 GRADE 5		SAE J429 GRADE 8				SAE J429 GRADE 5		SAE F429 GRADE 8	
		PLAIN FT-LB	PLATED FT-LB	PLAIN FT-LB	PLATED FT-LB			PLAIN FT-LB	PLATED FT-LB	PLAIN FT-LB	PLATED FT-LB
5/16-24	0.3125	19	14	27	20	5/16-18	0.3125	17	13	25	18
3/8-24	0.375	35	26	49	35	3/8-16	0.375	31	23	44	33
7/16-20	0.4375	55	41	78	58	7/16-14	0.4375	49	37	70	52
1/2-20	0.5	90	64	120	90	1/2-13	0.5	75	57	105	80
9/16-18	0.5625	120	90	170	130	9/16-12	0.5625	110	82	155	115
5/8-18	0.625	170	130	240	180	5/8-11	0.625	150	115	220	160
3/4-16	0.75	300	225	420	315	3/4-10	0.75	265	200	375	280
7/8-11	0.875	445	325	670	500	7/8-9	0.875	395	295	605	455
1-12	1	645	485	995	745	1-8	1	590	445	910	680
1 1/8-12	1.125	890	670	1445	1085	1 1/8-7	1.125	795	595	1290	965
1 1/4-12	1.25	1240	930	2010	1510	1 1/4-7	1.25	1120	840	1815	1360
1 3/8-12	1.375	1675	1255	2710	2035	1 3/8-6	1.375	1470	1100	2380	1780
1 1/2-12	1.5	2195	1645	3560	2670	1 1/2-6	1.5	1950	1460	3160	2370

REV. 20210504

REV. 20210504

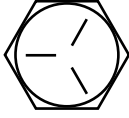

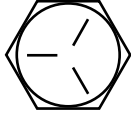

**NOTES:**

1. TIGHTENING TORQUES PROVIDED ARE MID-RANGE.
2. CONSULT BOLT MANUFACTURER'S PARTICULAR SPECIFICATIONS WHEN PROVIDED.
3. USE FLAT WASHERS OF EQUAL STRENGTH.
4. ALL TORQUE MEASUREMENTS ARE GIVEN IN FT-LB
5. 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 DISULFIDE, 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.

**⚠ WARNING**

Anytime a gear-bearing bolt is removed, it must be replaced with a new bolt of the identical grade and size. Once a bolt has been torqued to 75% of its proof load and then removed, the torque coefficient may no longer be the same as when the bolt was new thus giving indeterminate clamp loads after torquing. Failure to replace gear-bearing bolts may result in bolt failure due to metal fatigue causing death or serious injury.

### Thread Torque Charts - Metric


FINE THREAD TORQUE CHART (METRIC)						COURSE THREAD TORQUE CHART (METRIC)					
SIZE (DIA-TPI)	BOLT DIA. (INCHES)	GRADE 5		GRADE 8		SIZE (DIA-TPI)	BOLT DIA. (INCHES)	GRADE 5		GRADE 8	
											
		SAE J429 GRADE 5		SAE J429 GRADE 8				SAE J429 GRADE 5		SAE F429 GRADE 8	
		PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)			PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)
5/16-24	0.3125	3	2	4	3	5/16-18	0.3125	2	2	3	2
3/8-24	0.375	5	4	7	5	3/8-16	0.375	4	3	6	5
7/16-20	0.4375	8	6	11	8	7/16-14	0.4375	7	5	10	7
1/2-20	0.5	12	9	17	12	1/2-13	0.5	10	8	15	11
9/16-18	0.5625	17	12	24	18	9/16-12	0.5625	15	11	21	16
5/8-18	0.625	24	18	33	25	5/8-11	0.625	21	16	30	22
3/4-16	0.75	41	31	58	44	3/4-10	0.75	37	28	52	39
7/8-11	0.875	62	45	93	69	7/8-9	0.875	55	41	84	63
1-12	1	89	67	138	103	1-8	1	82	62	126	94
1 1/8-12	1.125	123	93	200	150	1 1/8-7	1.125	110	82	178	133
1 1/4-12	1.25	171	129	278	209	1 1/4-7	1.25	155	116	251	188
1 3/8-12	1.375	232	174	375	281	1 3/8-6	1.375	203	152	329	246
1 1/2-12	1.5	304	228	492	369	1 1/2-6	1.5	270	210	438	328

REV. 20210504

REV. 20210504

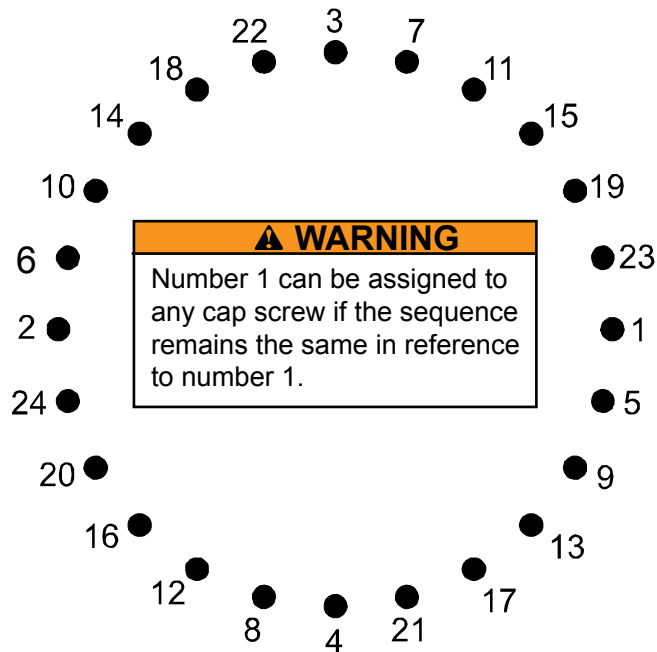
**NOTES:**

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2. CONSULT BOLT MANUFACTURER'S PARTICULAR SPECIFICATIONS WHEN PROVIDED.
3. USE FLAT WASHERS OF EQUAL STRENGTH.
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5. 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 DISULFIDE, 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.

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## Cross Torque Method - Turntable Bearing (General)



### TIGHTENING PROCEDURE

1. REFER TO THE TORQUE DATA CHART TO DETERMINE THE PROPER TORQUE VALUE TO APPLY TO THE SIZE OF CAP SCREW USED.
2. FOLLOW THE TIGHTENING SEQUENCE SHOWN IN THE DIAGRAM. NOTE: THE QUANTITY OF CAP SCREWS MAY DIFFER FROM THE DIAGRAM, BUT THE SEQUENCE MUST FOLLOW THE CRISS-CROSS PATTERN AS SHOWN IN THE DIAGRAM.
3. TORQUE ALL CAP SCREWS TO APPROXIMATELY 40% OF THE SPECIFIED TORQUE VALUE, BY FOLLOWING THE SEQUENCE.
  - (EXAMPLE: .40 X 265 FT-LB = 106 FT-LB)
  - (EXAMPLE-METRIC: .40 X 36 KG-M = 14.4 KG-M)
4. REPEAT STEP 3, BUT TORQUING ALL CAP SCREWS TO 75% OF THE SPECIFIED TORQUE VALUE. CONTINUE TO FOLLOW THE TIGHTENING SEQUENCE.
  - (EXAMPLE: .75 X 265 FT-LB = 199 FT-LB)
  - (EXAMPLE-METRIC: .75 X 36 KG-M = 27 KG-M)
5. USING THE PROPER SEQUENCE, TORQUE ALL CAP SCREWS TO THE LISTED TORQUE VALUE AS DETERMINED FROM THE TORQUE DATA CHART.

### NOTES:

REFER TO THE TURNTABLE BEARING THREAD TIGHTENING DIAGRAM FOR PROPER TIGHTENING-TORQUING SEQUENCE OF THE TURNTABLE BEARING TO THE CRANE BASE AND CRANE MAST. THE TOTAL QUANTITY OF CAP SCREWS VARIES DEPENDENT ON CRANE MODEL.



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Tel: 641.923.3711

[www.imt.com](http://www.imt.com)



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