



IOWA MOLD TOOLING CO., INC.

P.O. Box 189
Garner, IA 50438
Tel: 641.923.3711
www.imt.com

Manual # 91729048 REV A

Series 5 3300-18, 4300-18, 3300e-18 and 4300e-18 Crane Parts & Specifications

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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.

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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

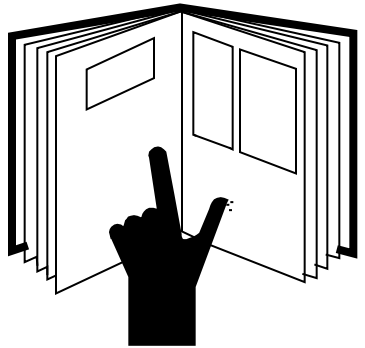
Prior to using any of the equipment installed on or incorporated in the IMT Crane Body Mechanics Truck, you must:

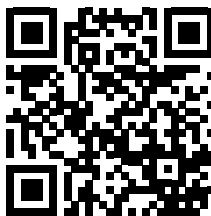
- Have already been fully trained to operate the vehicle and equipment.
- Have demonstrated the effectiveness of your training and the extent of your knowledge.

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.

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



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 *S5 Telescopic Crane Operator's Manual*, part number 99906578.

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) 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.

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 winch 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 winch 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



OSHA website

Section - 2 **Specifications**

General Specifications 3300-18 & 3300e-18

GENERAL SPECIFICATIONS		
	3300-18'	3300e-18'
CRANE RATING (crane rating (ft-lb) is the rated load (lb) multiplied by the respective distance (ft) from centerline of rotation with all extensions retracted and lower boom in horizontal position.)	18,000 ft-lb (2.7 tm)	
HORIZONTAL REACH - FLIP SHEAVE UP (From centerline of rotation.)	16'-10" (5.1 m)	
HORIZONTAL REACH - FLIP SHEAVE DOWN (From centerline of rotation.)	16'- 1" (4.9 m)	
FULLY RETRACTED LENGTH	8'- 10" (2.7 m)	
HYDRAULIC EXTENSIONS (2)	44" & 44" (112 cm & 112 cm)	
LIFTING HEIGHT	18'-1" (5.5 m)	
CRANE WEIGHT	771 lb (349.7 kg)	821 lb (372.4 kg)
CRANE STORAGE HEIGHT	30.1" (76.5 cm)	32.8" (83.3 cm)
MOUNTING SPACE REQUIRED (Crane base.)	17.4" x 16.7" 44.2 cm x 42.4 cm)	
OPTIMUM PUMP CAPACITY	6 gpm (22.7 L/min)	3 gpm (11.4 L/min)
POWER UNIT RESERVOIR CAPACITY	NA	2 gallons (7.6 L)
SYSTEM OPERATING PRESSURE	2150 psi (148.2 Bar)	
CENTER OF GRAVITY Horizontal from centerline of rotation.	20.0" (50.9 cm)	
Vertical from bottom of crane base.	14.2" (36.1 cm)	
TIE-DOWN BOLT PATTERN (4 bolts)	14.75" x 14.75" (37.5 cm x 37.5 cm)	
ROTATIONAL TORQUE	4,721 ft-lb (0.7 tm)	

General Specifications 4300-18 - 4300e-18

GENERAL SPECIFICATIONS		
	4300 - 18'	4300e - 18'
CRANE RATING (crane rating (ft-lb) is the rated load (lb) multiplied by the respective distance (ft) from centerline of rotation with all extensions retracted and lower boom in horizontal position.)	20,000 ft-lb (3.0 tm)	
HORIZONTAL REACH - FLIP SHEAVE UP (From centerline of rotation.)	16'-10" (5.1 m)	
HORIZONTAL REACH - FLIP SHEAVE DOWN (From centerline of rotation.)	16'- 1" (4.9 m)	
FULLY RETRACTED LENGTH	8'- 10" (2.7 m)	
HYDRAULIC EXTENSIONS (2)	44" & 44" (112 cm & 112 cm)	
LIFTING HEIGHT	18'-1" (5.5 m)	
CRANE WEIGHT	771 lb (349.7 kg)	821 lb (372.4 kg)
CRANE STORAGE HEIGHT	30.1" (76.5 cm)	32.8" (83.3 cm)
MOUNTING SPACE REQUIRED (Crane base.)	17.4" x 16.7" (44.2 cm x 42.4 cm)	
OPTIMUM PUMP CAPACITY	6 gpm (22.7 L/min)	3 gpm (11.4 L/min)
POWER UNIT RESERVOIR CAPACITY	NA	2 gallons (7.6 L)
SYSTEM OPERATING PRESSURE	2450 psi (168.9 Bar)	
CENTER OF GRAVITY Horizontal from centerline of rotation.	20.0" (50.9 cm)	
Vertical from bottom of crane base.	14.2" (36.1 cm)	
TIE-DOWN BOLT PATTERN (4 bolts)	14.75" x 14.75" (37.5 cm x 37.5 cm)	
ROTATIONAL TORQUE	4,721 ft-lb (0.7 tm)	

Performance Specifications ALL MODELS

PERFORMANCE SPECIFICATIONS		
	HYDRAULIC MODELS	ELECTRIC MODELS
ROTATION LIMIT	400°	400°
TIME FOR FULL ROTATION	27 sec	60 sec
LOWER BOOM ELEVATION	-10° to +80°	-10° to +80°
LOWER BOOM ELEVATION SPEED	10 sec (Raise) 12 sec (Lower)	20 sec (Raise) 20 sec (Lower)
EXTENSION CYLINDERS SPEED	8 sec (Extend) 8 sec (Retract)	15 sec (Extend) 14 sec (Retract)
HOIST SPEED	29 ft/min	17 ft/min
CHASSIS SPECIFICATIONS		
CHASSIS STYLE	Conventional Cab	Conventional Cab
BODY STYLE	Dominator DSC 30	Dominator DSC 30
RBM*	400,000 in-lb (45,194 N-m)	400,000 in-lb (45,194 N-m)
FRAME SECTION MODULUS (MINIMUM)	8 cubic inches (232.7 cc)	8 cubic inches (232.7 cc)
GVW (MINIMUM)	11,500 lb Minimum (5216 kg)	11,500 lb Minimum (5216 kg)

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 (3300-18 & 4300-18 ONLY)

PTO DRIVEN - Integral mounted hydraulic pump and PTO application. Other standard power sources may be used. Minimum power required is 11* horsepower based on 6 gpm (22.7 L/min) at 2750 PSI (189.6 Bar)

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 6 gpm (22.7 L/min.) optimum oil flow **3300-18** is at 2150 PSI (148 Bar) and **4300-18** is at 2450 PSI (169 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. A pressure transducer mounted on the lower cylinder senses overload conditions. When in an overload situation, the winch-up, extension-out, and boom-down functions are stopped. To relieve the situation, raise the boom, retract the extensions, or lower the winch.

HOIST

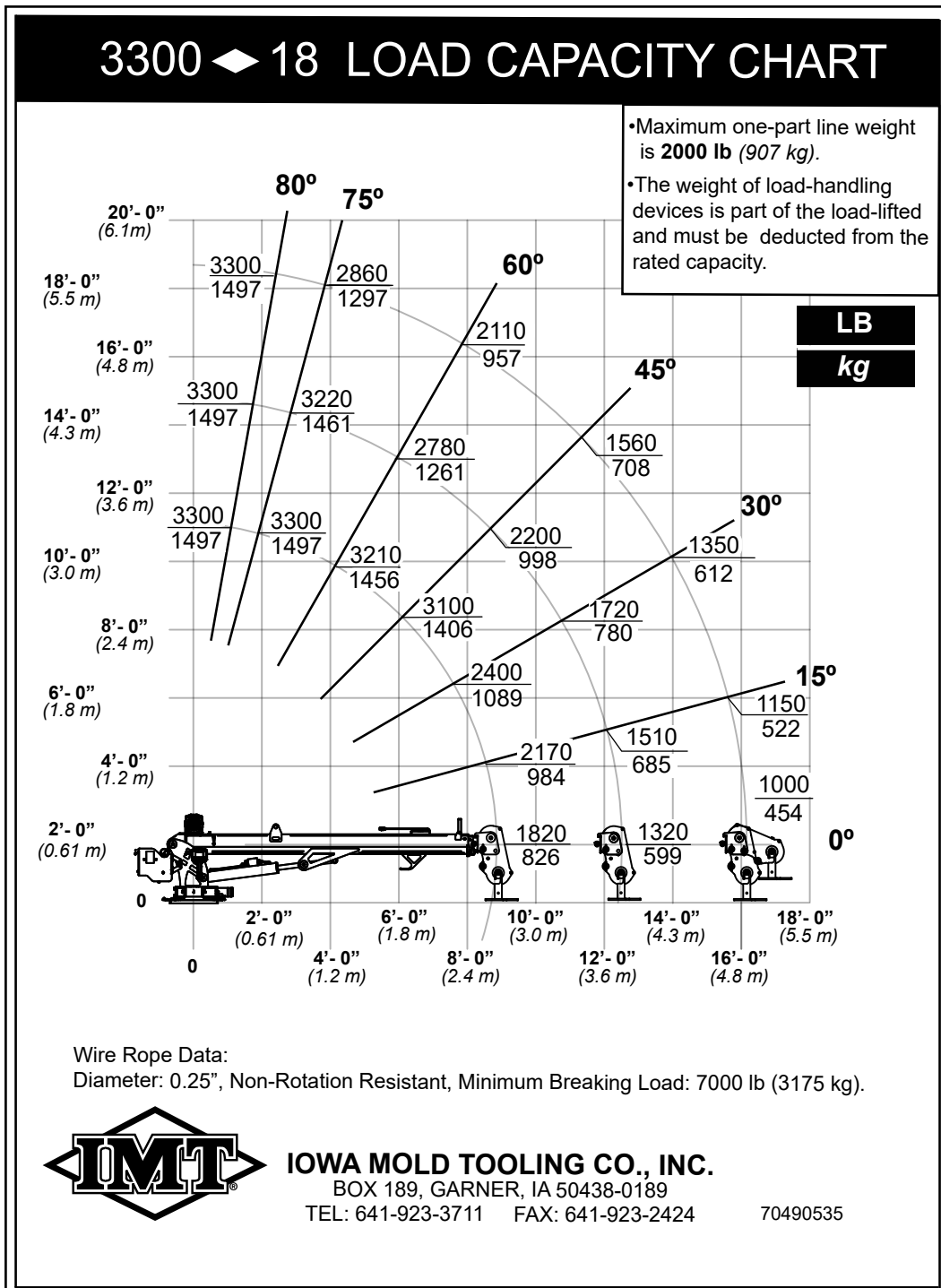
The 2,000 lb (907 kg) planetary winch is powered using a high-torque hydraulic (**3300-18 or 4300-18**) or electric (**3300e-18 or 4300e-18**) motor. The lifting capacity of the winch is 2,000 lb (907 kg) one-part line. Maximum two-part line capacity is based on the maximum crane capacity. The winch is equipped with 75 ft (22.9 m) of 1/4" (6.35 mm), 7 x 19 FW 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 winch meets ANSI B30.5 standards.

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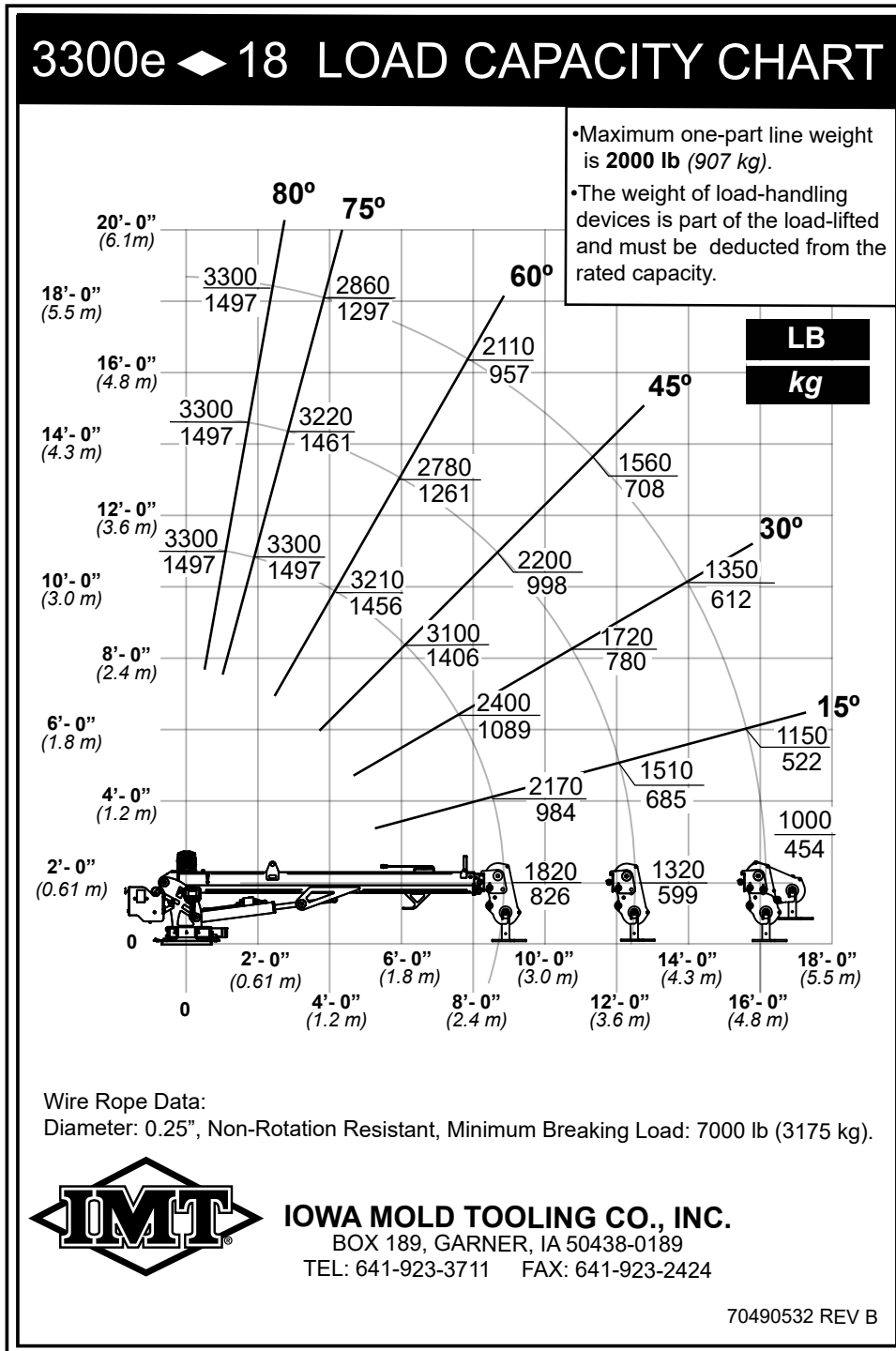
Section - 3

Load Capacity Chart

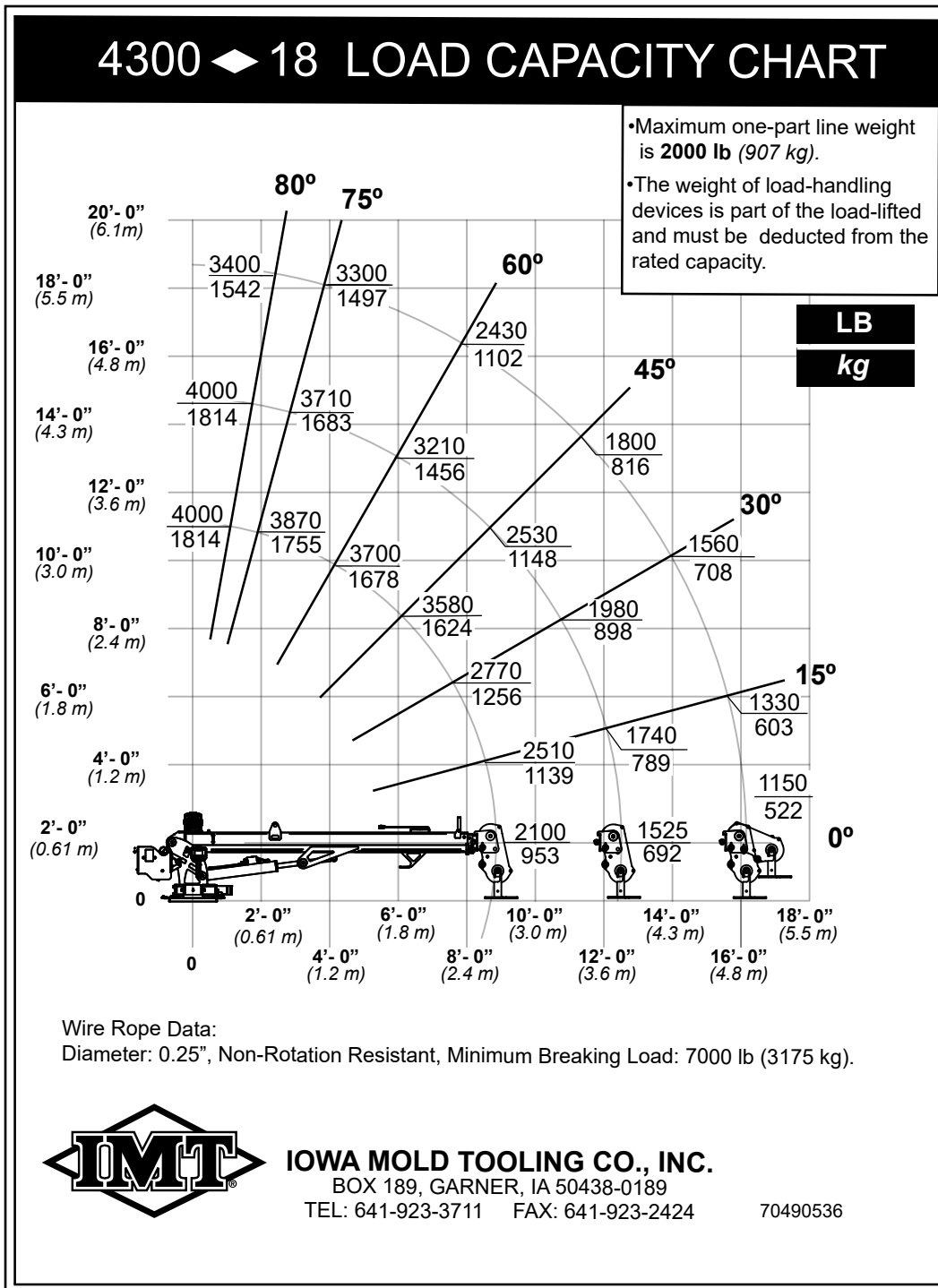
Capacity Load Chart 3300-18 (70490535)



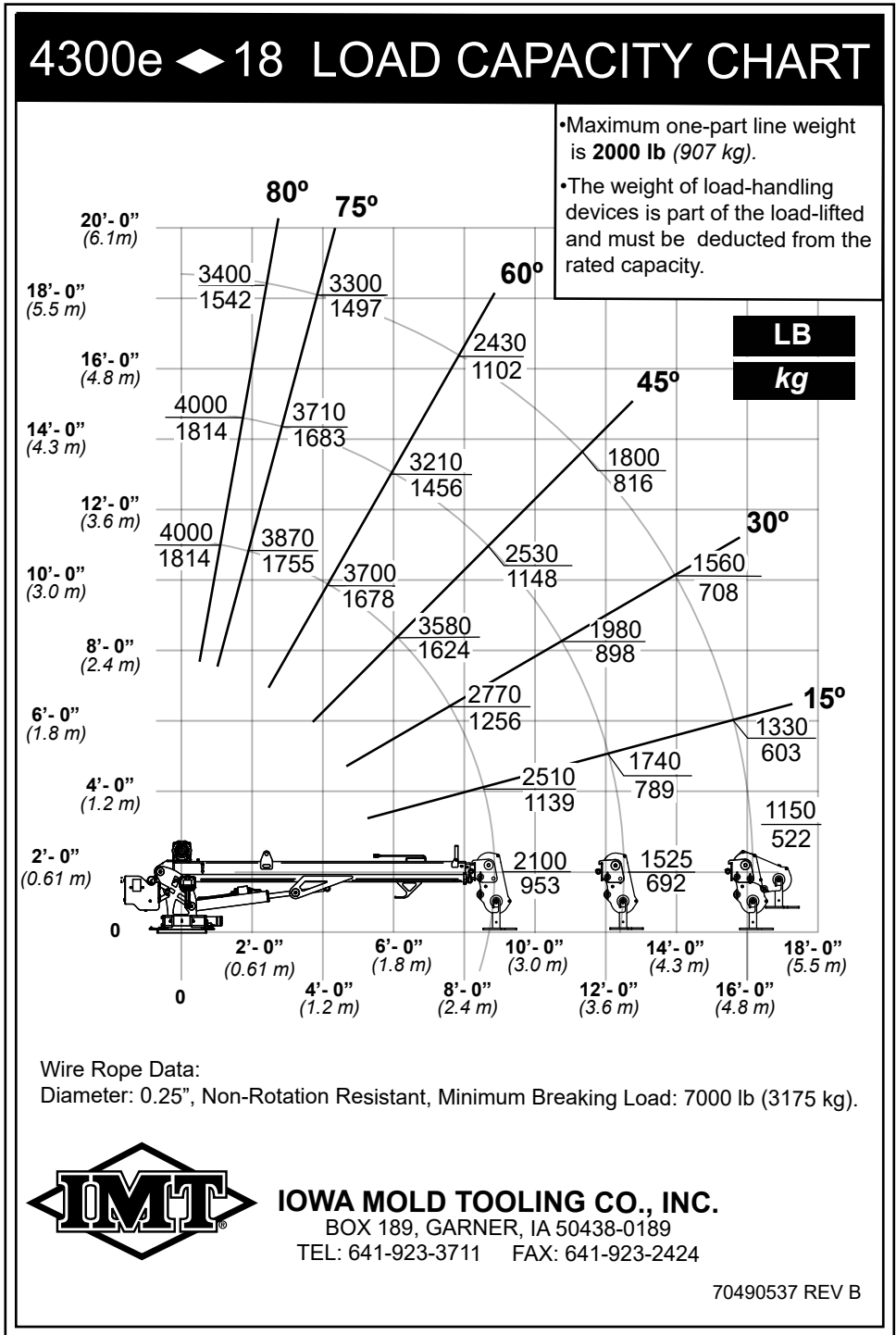
Capacity Load Chart 3300e-18 (70490532)



Capacity Load Chart 4300-18 (70490536)



Capacity Load Chart 4300e-18 (70490537)



Section - 4

Crane Installation

Installation Introduction

GENERAL

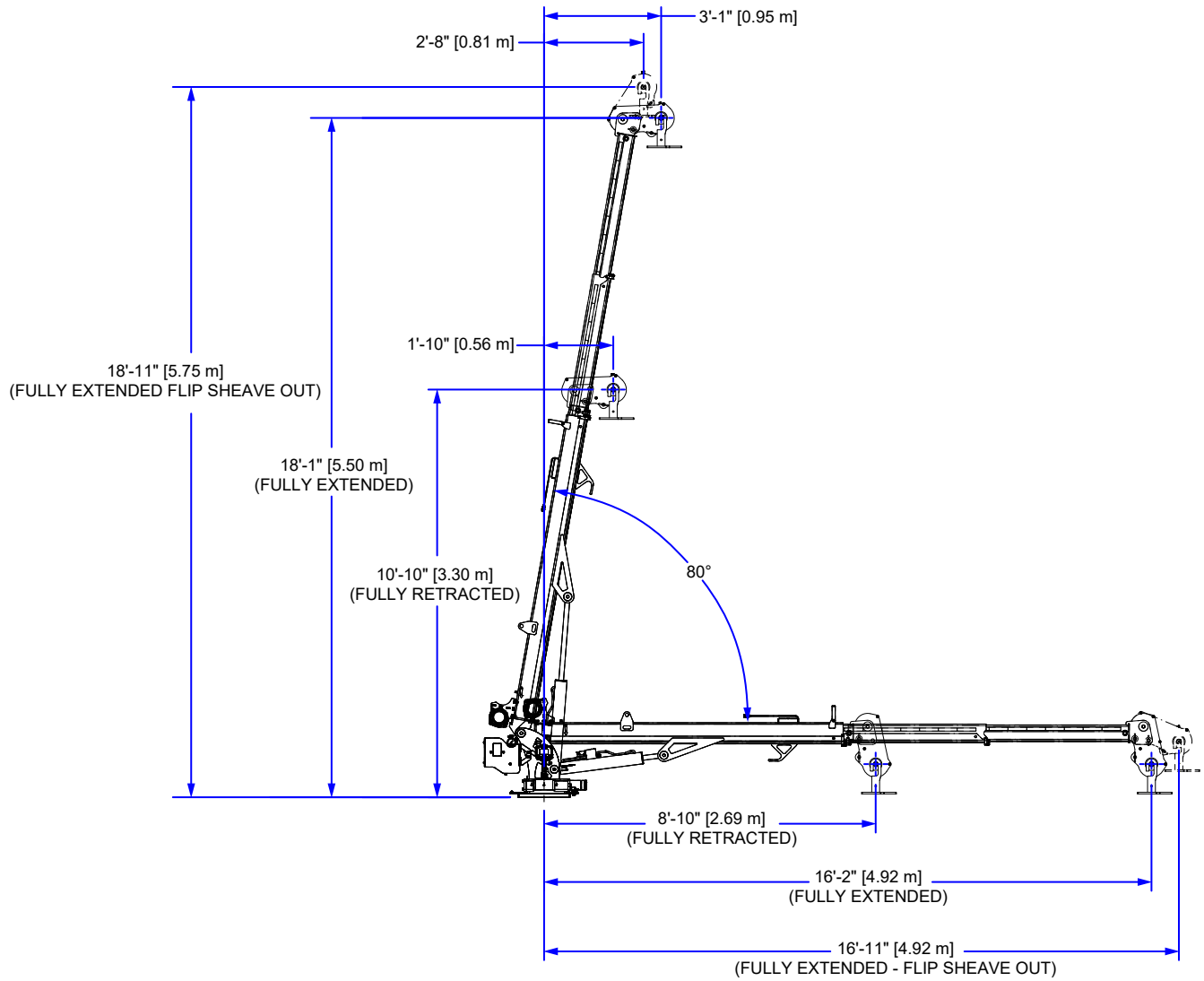
This section contains instructions for the installation of your crane. Prior to installing the crane and hydraulic components, make sure that the chassis is ready to receive the crane. Reinforce the chassis frame, as necessary, and install the PTO and pump.

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.

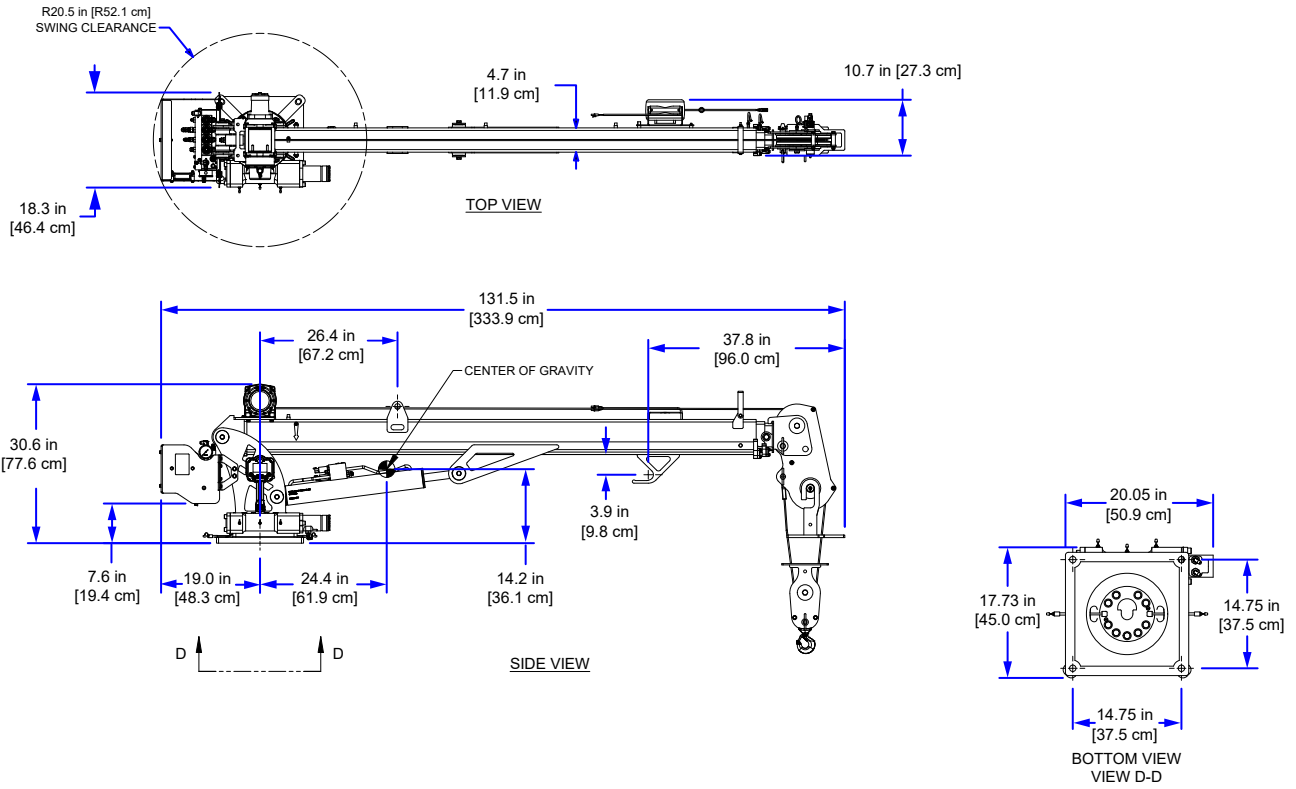
CRANE INSTALLATION

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.

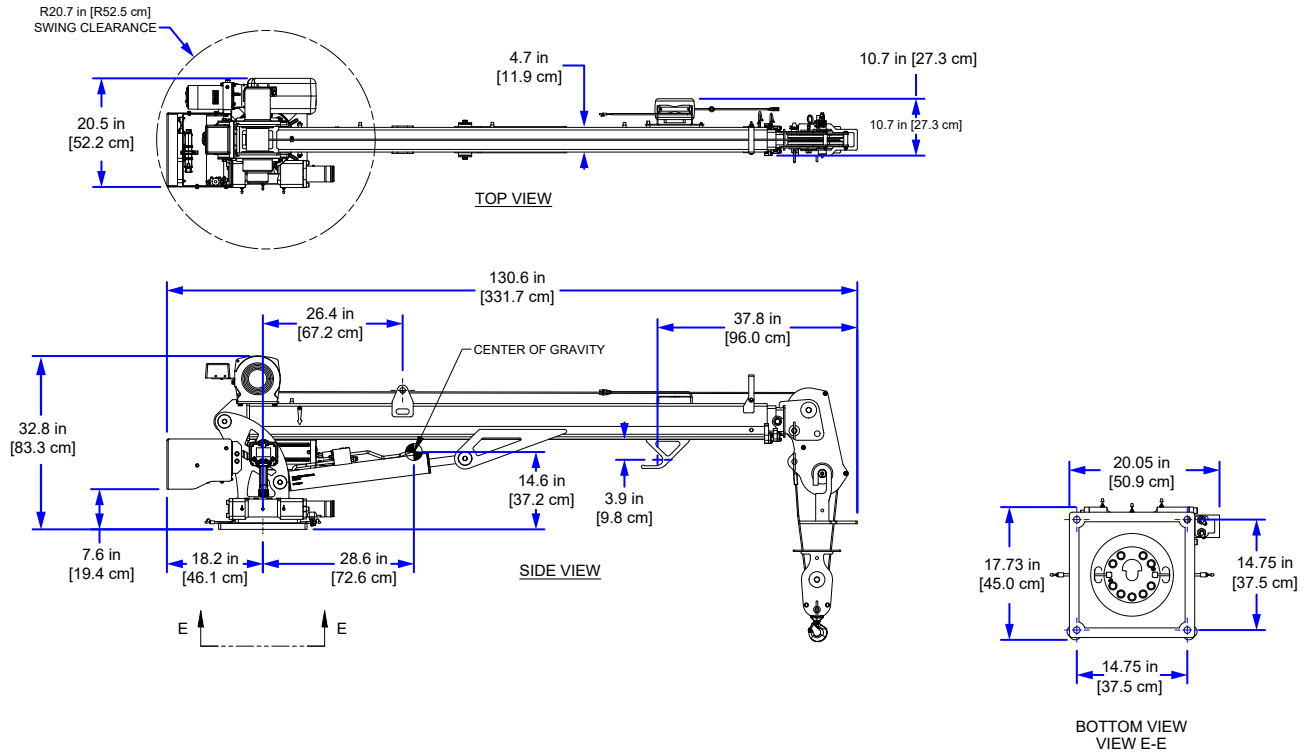
Dimension Drawing ALL MODELS (99906941)



Dimension Drawing 3300-18 & 4300-18 VIEW (99906941) CONTINUED



Dimension Drawing 3300e-18 & 4300-18e VIEW (99906941) CONTINUED



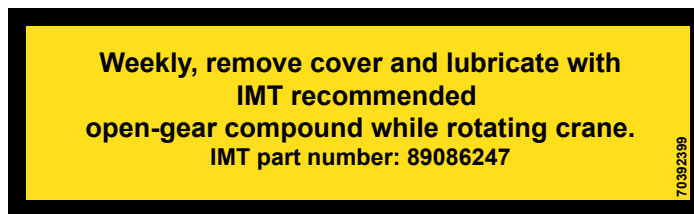
Greasing Instructions

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.

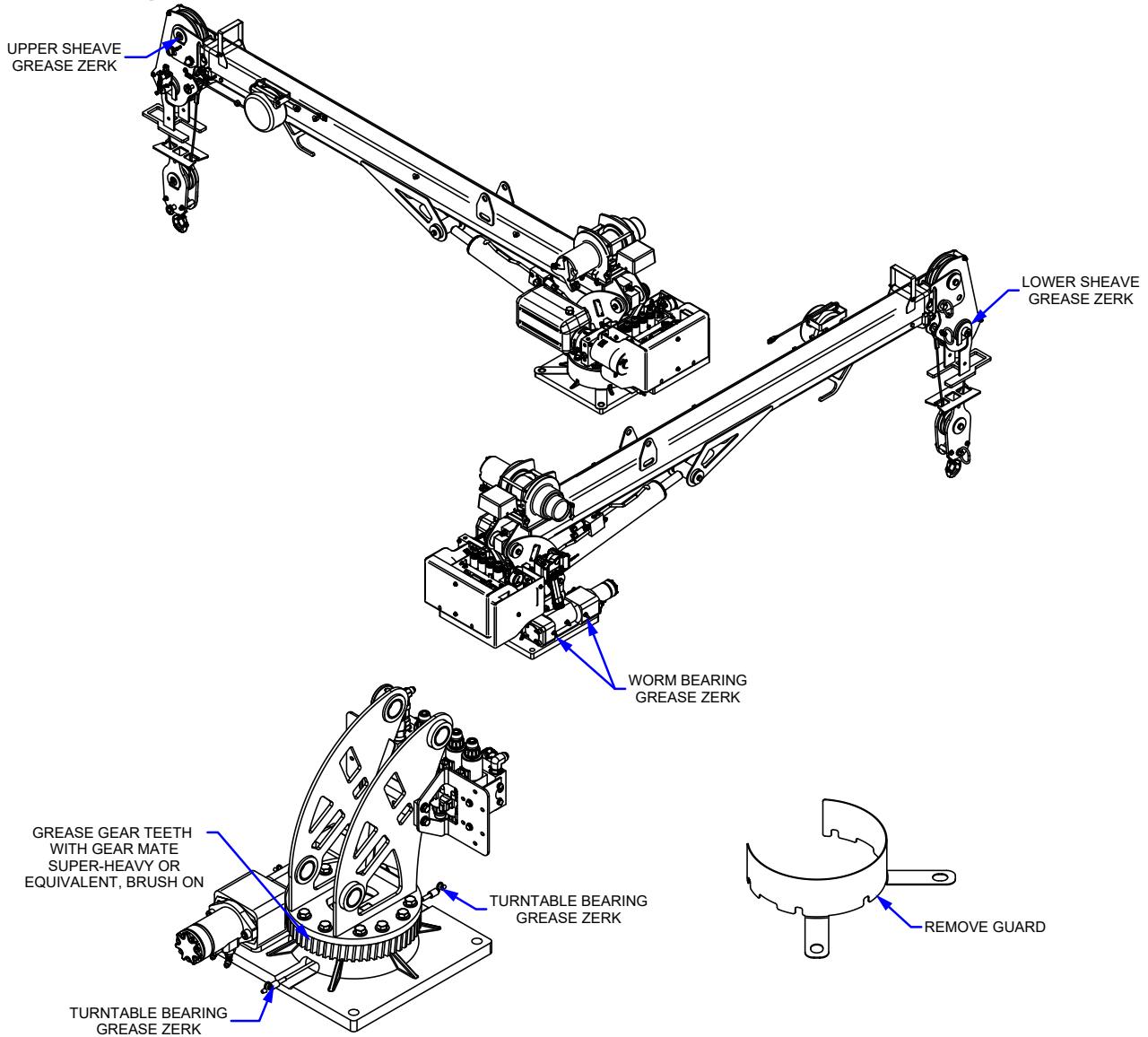
Crane grease zerks must be greased on a weekly basis during normal operating conditions. Under severe operating conditions the zerks must be greased more frequently. Each grease zerk is marked with a decal, "grease weekly", as shown. Rotate the worm gear bearing when greasing the worm gear bearing grease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



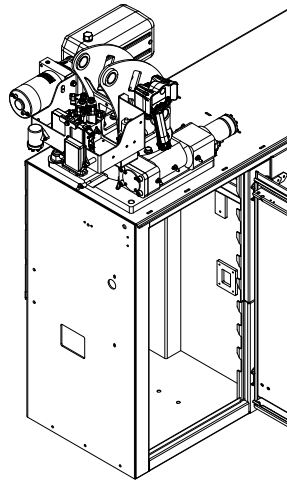
Greasing Locations



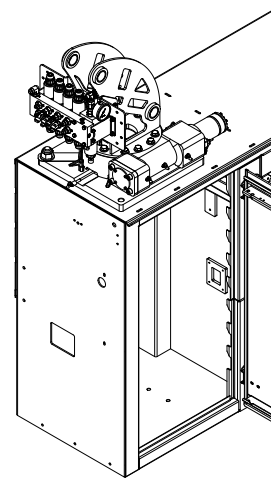
LOCATION	LUBRICANT	APPLICATION METHOD	FREQUENCY
BASE - TURNTABLE BEARING GREASE ZERKS	EXTREME PRESSURE LITHIUM GREASE SUCH AS: SHELL ALVANIA 2EP, SHELL RETINAX A, MOBILGREASE XHP 462, CENEX ML 365®, XTREME TRUE-FLO EP2 LITHIUM GREASE OR EQUIVALENT	APPLY WITH HAND OR PNEUMATIC PRESSURE GREASE GUN	WEEKLY
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.

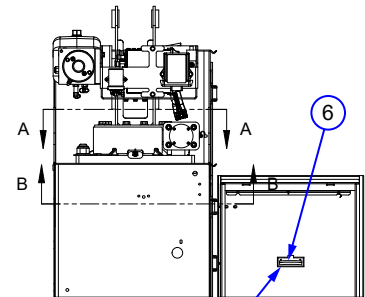
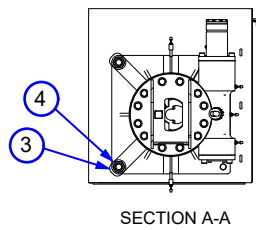
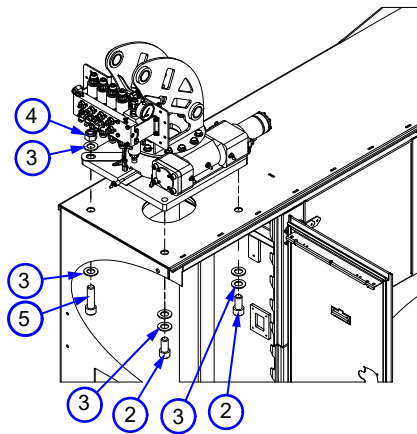
Crane Installation ALL MODELS (99906981)



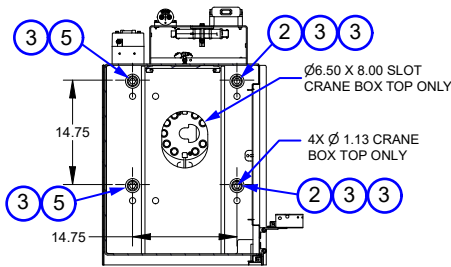
ELECTRIC CRANE BASE



HYDRAULIC CRANE BASE



LEVEL INDICATOR INSTALLED PARALLEL TO DOOR REINFORCEMENTS



SECTION B-B

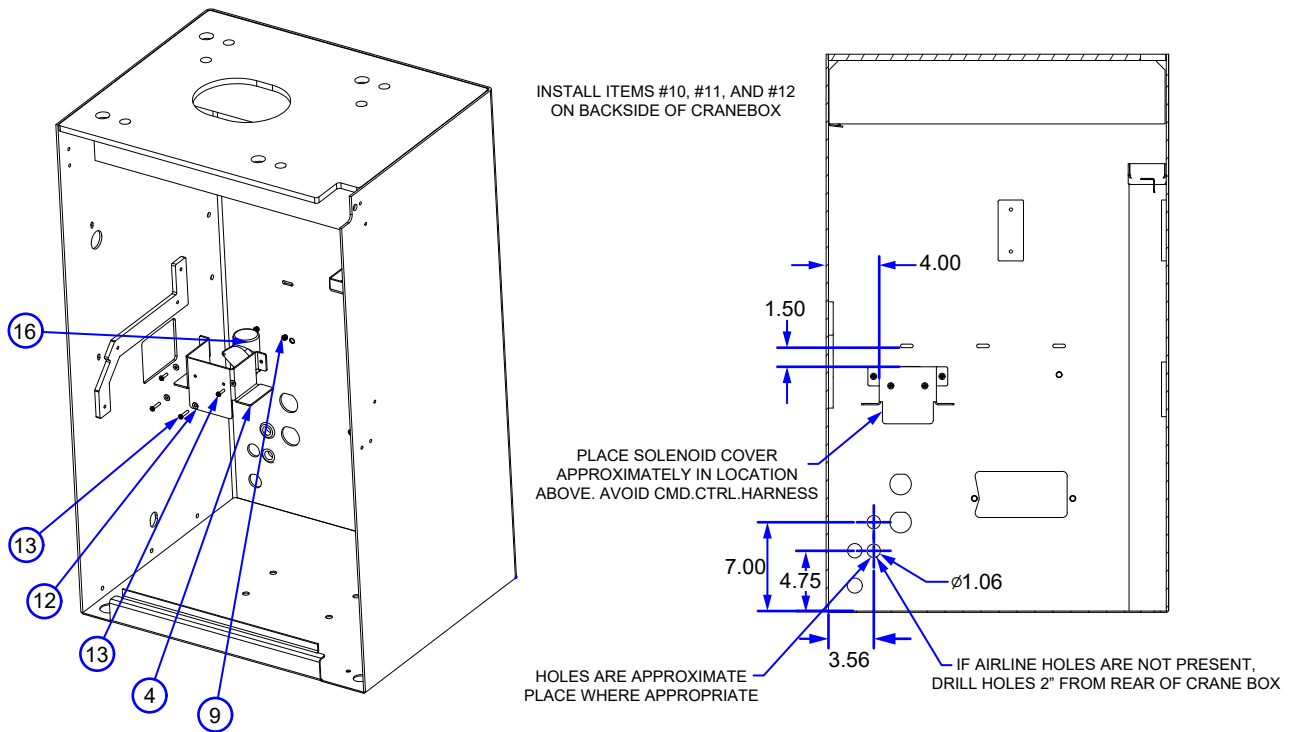
NOTES

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.	93729003	INSTL-KIT 3300-4300 S5	1	
2.	72601650	CAP SCR 1.00- 8X 2.00 SH PLAIN	2	1
3.	72063066	WASHER 1.00 FLAT HI STR	2	1
4.	72062375	NUT 1.00- 8 HEX GR8 YZ NYLOCK	8	1
5.	72602152	CAP SCR 1.00- 8X 3.50 SH PLAIN	2	1
6.	72042097	LEVEL INDICATOR BUBBLE LEVEL	1	1

REV. INITIAL RELEASE

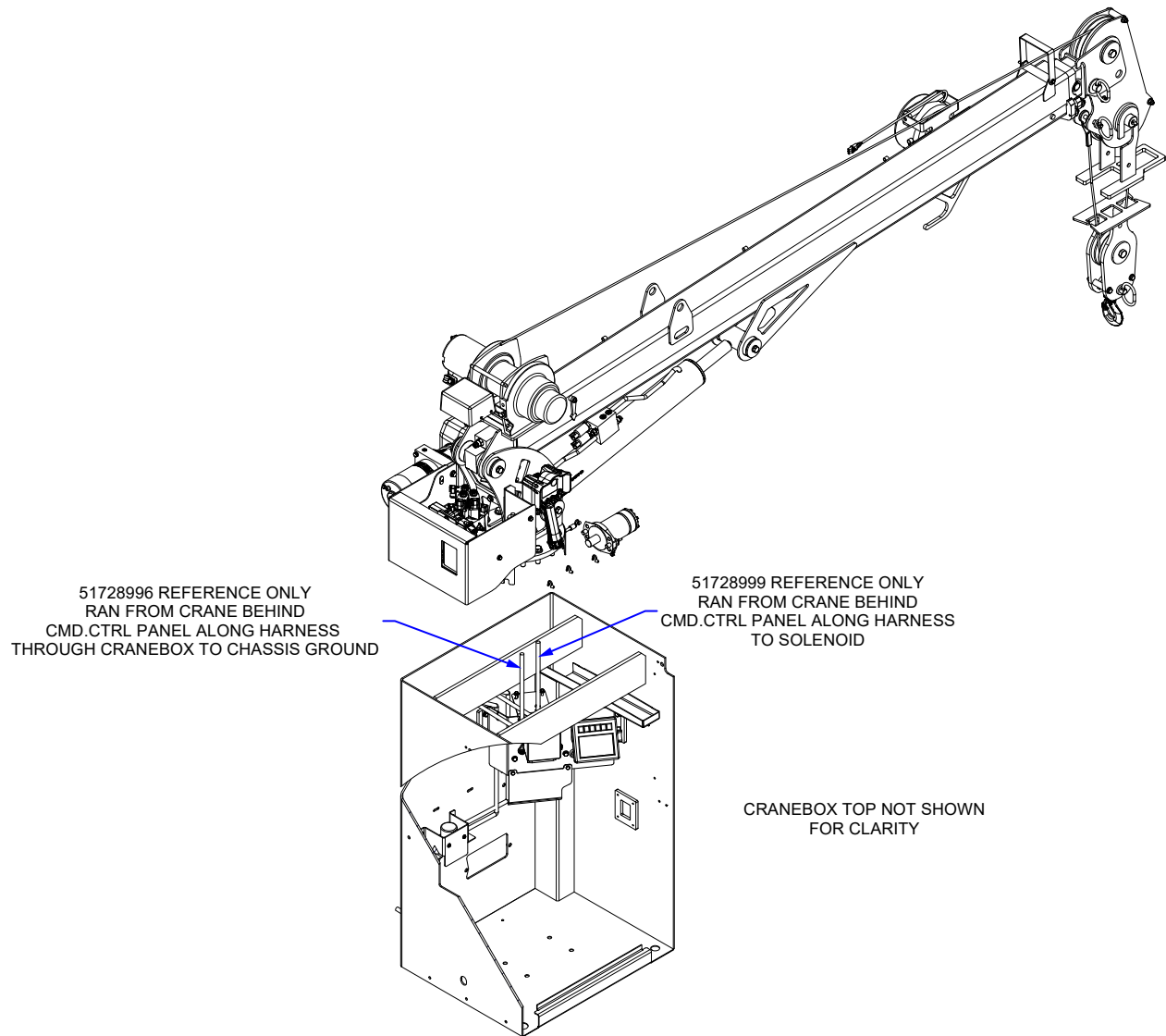
Electric Crane Installation 3300e-18 & 4300e-18 (99907000)



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

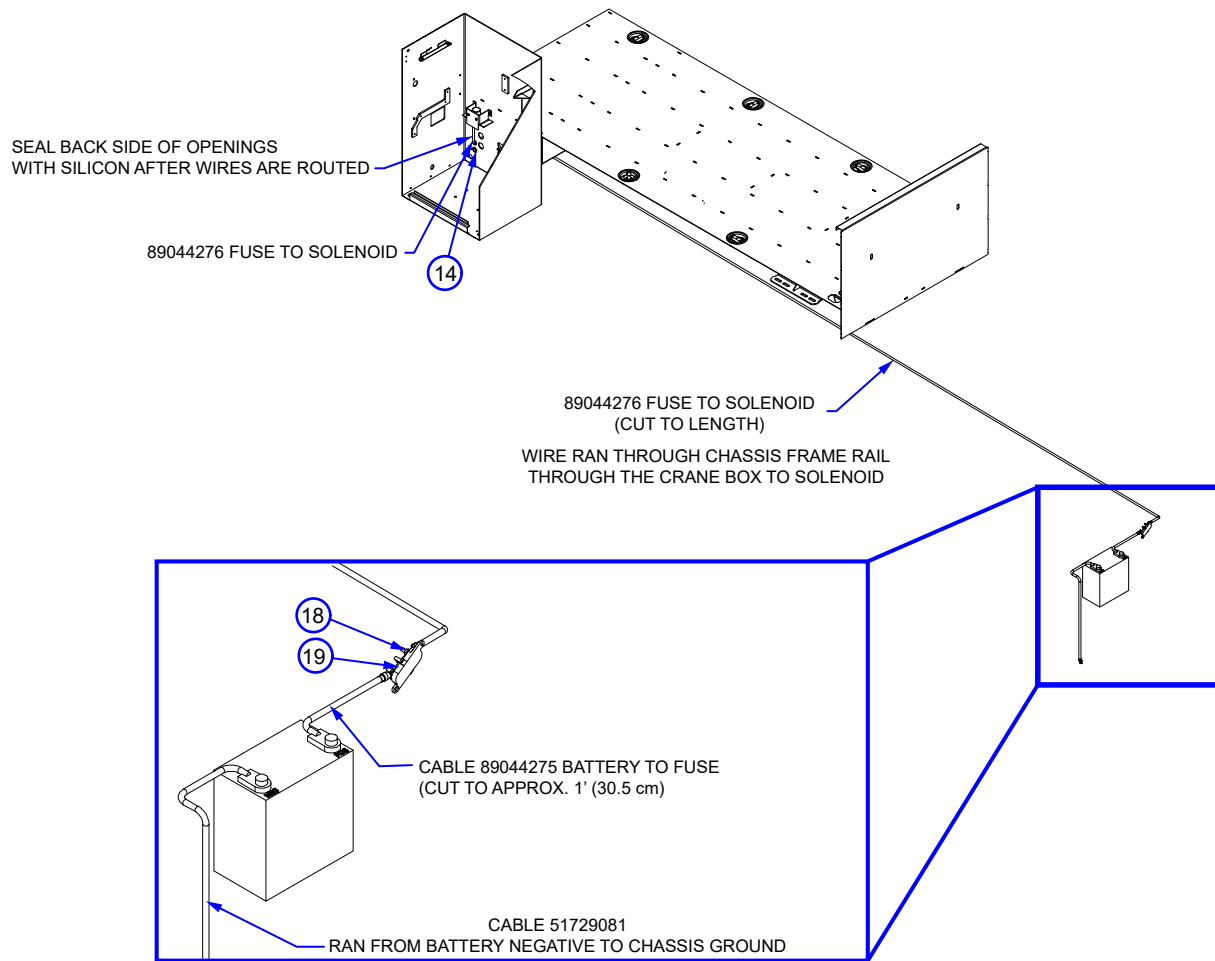
Electric Crane Installation 3300e-18 & 4300e-18 (99907000)



PLACE SPLIT LOOM 89044402 ON WIRES IN CRANEBOX

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 10.7 m (35') long cable, IMT # 89044276 (item #21 in the parts list). Approximately 7.6 m (25') 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 3300e-18 & 4300e-18 (99907000)



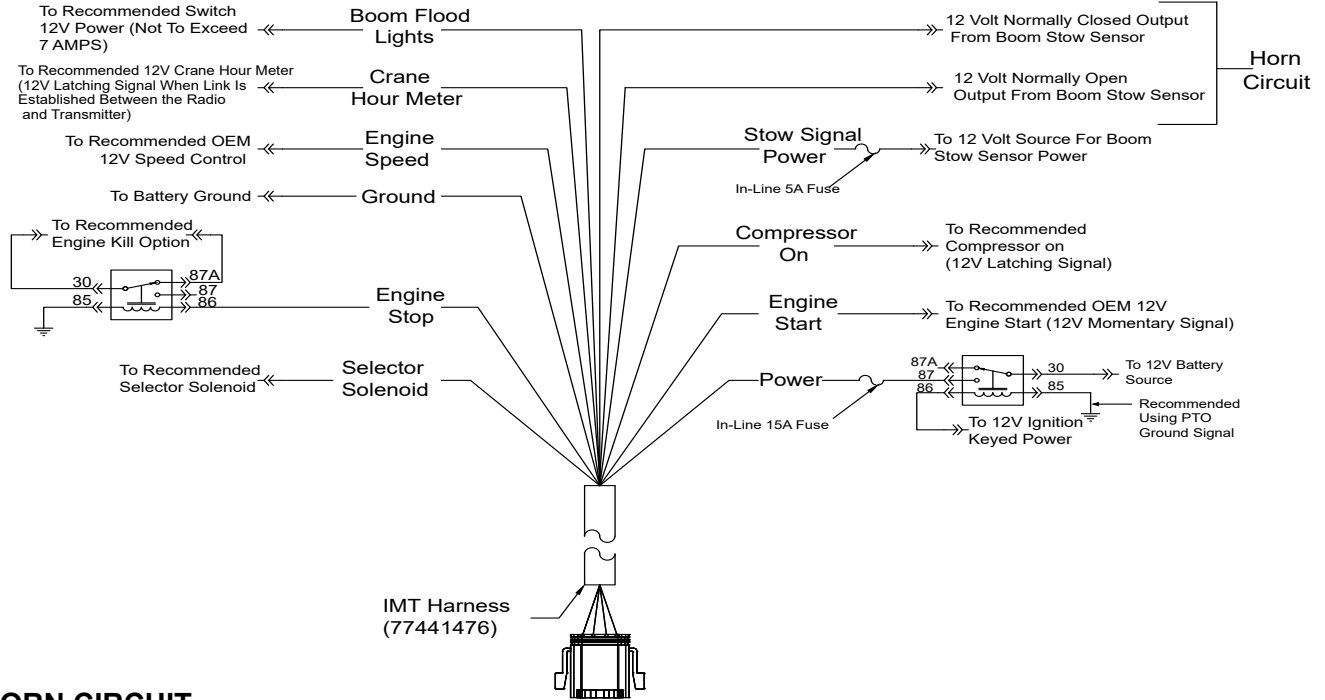
5. Connect one end of the ground cable (item #3 - 51729081) to the negative terminal on the vehicle battery, and the other end to bare metal on the chassis.
6. Mount the 225-amp fuse holder (item #19) close to the vehicle battery in a location which can be easily accessed if the fuse needs to be replaced. 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 3300E-18 & 4300E-18 (99907000) PARTS LIST

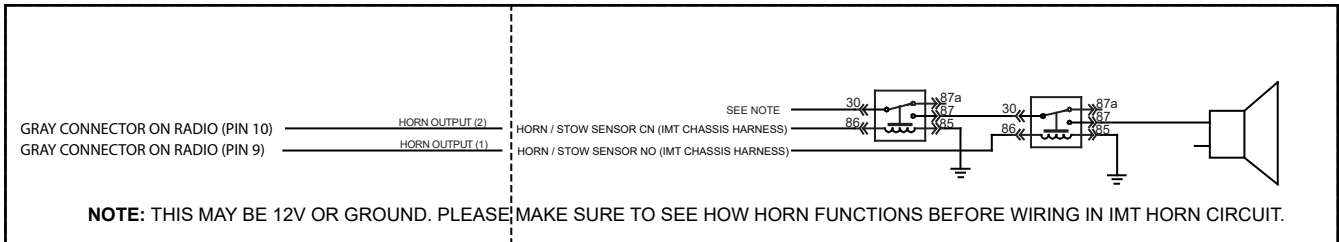
ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT
1.	51729052	KIT - DS5-ELEC CRANE BODY INSTALLATION	1	1
2.	51729083	KIT-HRDW S5 ELEC CRANE INSTALL	1	2
3.	51729081	CABLE ASM-2GA 5/16RNGX5/16RNGX65LG R0	1	1
4.	60148020	COVER-SOLENOID	1	1
5.	72060002	CAP SCR .25-20X .75 HH GR5 Z	1	2
6.	72060634	SCR-MACH #10-24X .50 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	FUSEHOLDER-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.

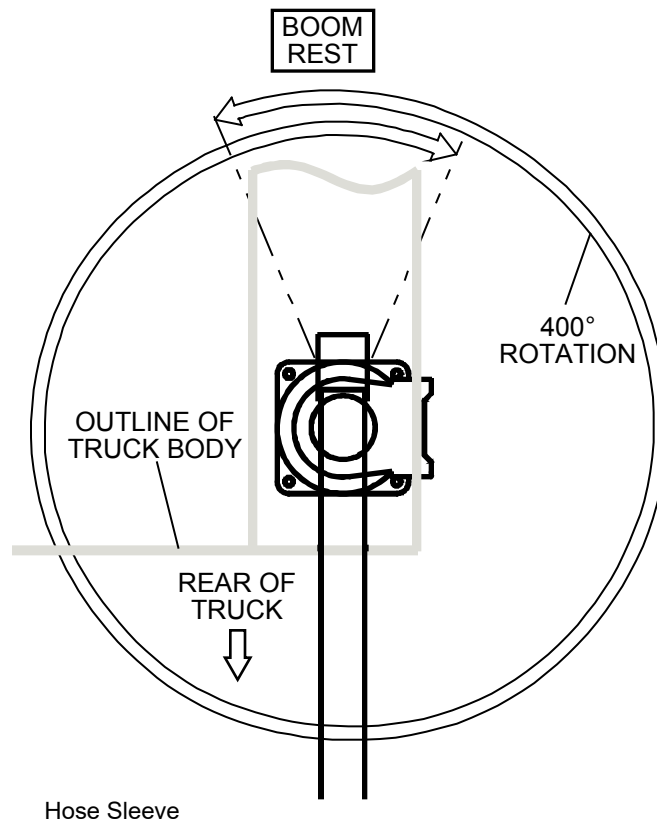


Photo taken looking up from the crane box. Image is for illustrative purposes only, actual crane installation may vary. The pressure, return, and rotation hoses are wrapped in the hose sleeve.

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. For optional equipment such as winches and remote controls, refer to the appropriate service manual.

⚠ WARNING
Do not attempt to repair any component without reading the information contained in the repair section. Pay particular attention to statements marked Warning , Caution or Note in that section. Failure to comply with these instructions may result in damage to the equipment, personal injury or death.

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:

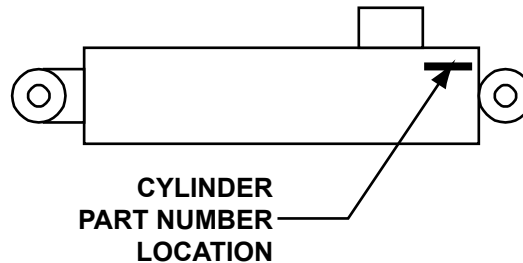
Iowa Mold Tooling Co., Inc.
Box 189, Garner, IA 50438-0189
Telephone: 800-554-4421

IOWA MOLD TOOLING CO., INC. BOX 189, GARNER, IA 50438-0189	
MODEL NUMBER	
SERIAL NUMBER	
MFG DATE	

70029119

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

Each of the major weldments— mast, lower boom, first extension, and second extension—bear a stamped part number. Any time a major weldment is replaced, you must specify the complete part number as stamped on the weldment. The locations of the part numbers are shown in the Crane Reference Section.

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, or one of the main weldments, 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.

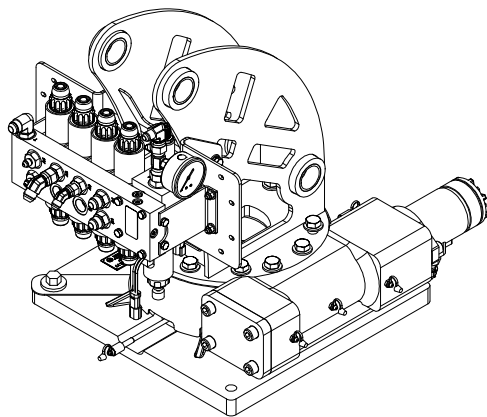
3300-18 & 4300-18 PARTS LIST

BASE & MAST(99906936)		
PART NO.	DESCRIPTION	QTY.
70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4
76039295	GASKET-GEA19 008-10056-1SAME AS 76395075	1
BOOM ASSEMBLY (99906938)		
70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4
CRANE ASSEMBLY (99906941)		
51728824	CORD REEL ASM 13.00" W/PACKARD CONN 3WIRE	1
77041863	SWITCH-LIMIT DT04-4P CONN	1
77040581	FLOODLIGHT-LED 12-36VDC	2
70580197	WIRE ROPE ASM-.25(7X19)X75FT GAC RRL	1
60030605	SHEAVE- 5.38 NYLATRON GSM	1
60030611	SHEAVE- 6.50 NYLATRON GSM	2
60030625	ROLLER-CABLE GUIDE 0.31X 1.00X 4.56	1
70735101	HOOK-SWVL BBRG 2TON W/LATCH	1
LOWER CYLINDER (51729068)		
94490605	SEAL KIT - 51729068	1
EXTENSION CYLINDER (51729062)		
94490615	SEAL KIT - 51729062	1
RADIO REMOTE CONTROL		
70735198	TRANSM-RAD CMD.CTRL W/ LCD	1
VALVE BANK (73735318)		
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

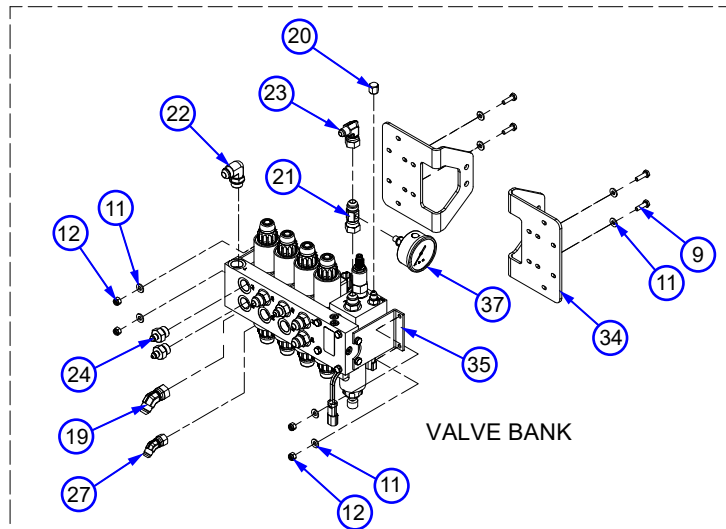
3300e-18 & 4300e-18 PARTS LIST

BASE & MAST(99906954)		
PART NO.	DESCRIPTION	QTY.
77040839	SOLENOID 500 AMP 12VDC TE SIDE MOUNT	1
70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4
76039295	GASKET-GEA19 008-10056-1SAME AS 76395075	1
BOOM ASSEMBLY (99906938)		
70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4
RIGGING COMPONENTS (99906941)		
70580197	WIRE ROPE ASM-.25(7X19)X75FT GAC RRL	1
60030605	SHEAVE- 5.38 NYLATRON GSM	1
60030611	SHEAVE- 6.50 NYLATRON GSM	2
60030625	ROLLER-CABLE GUIDE 0.31X 1.00X 4.56	1
LOWER CYLINDER (51729068)		
94490605	SEAL KIT - 51729068	1
EXTENSION CYLINDER (51729062)		
94490615	SEAL KIT - 51729062	1
RADIO REMOTE CONTROL		
70735198	TRANSM-RAD W/ LCD CMD.CTRL	1
VALVE BANK		
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

Hydraulic Base Assembly 3300-18 & 4300-18 (99906936)



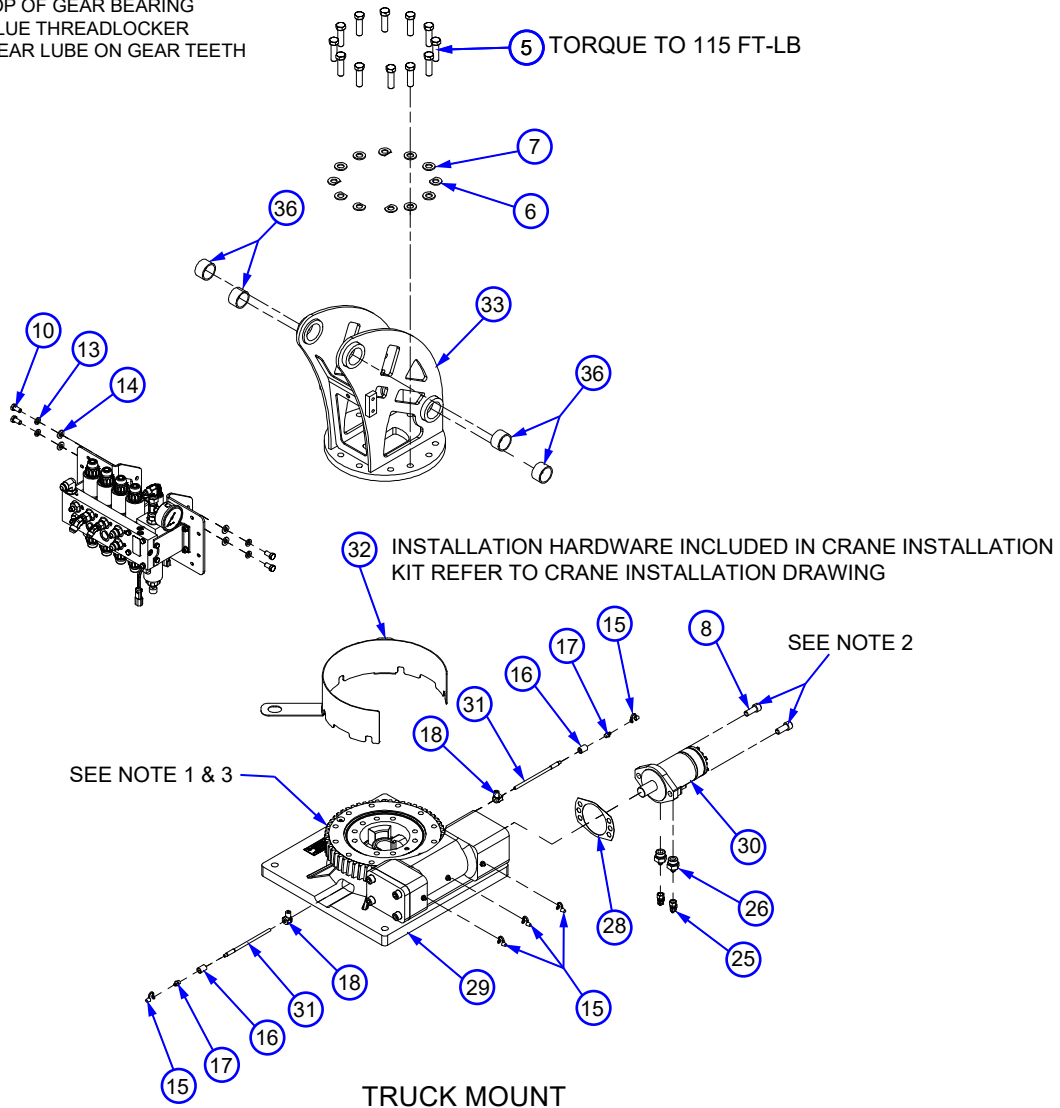
TRUCK MOUNT



VALVE BANK

NOTES

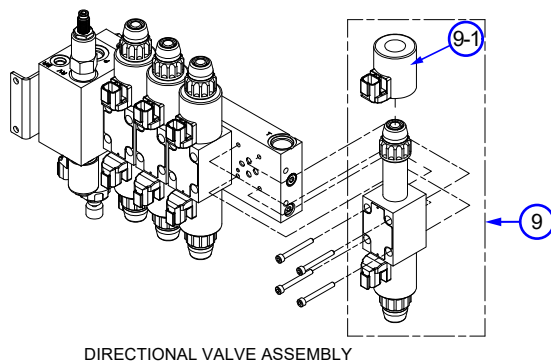
1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST, TOP OF GEAR BEARING
2. APPLY BLUE THREADLOCKER
3. APPLY GEAR LUBE ON GEAR TEETH



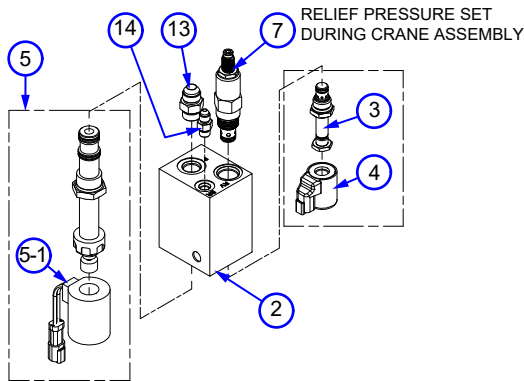
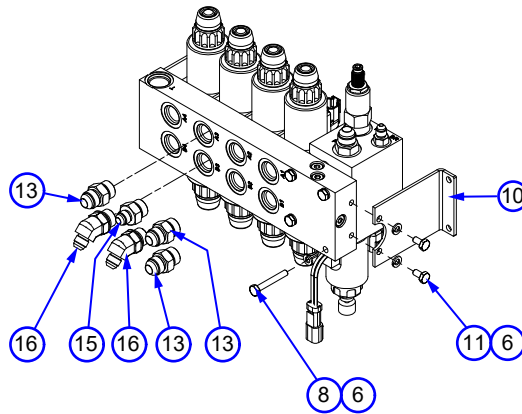
Hydraulic Base Assembly (99906936) PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	51728822	KIT-HRDW BASE ASM 3300-4300	1	
2.	51728816	KIT-HRDW VALVE BANK ASM 3300-12600	1	
3.	51728838	KIT-GREASE 3300-6300	1	
4.	91728864	KIT-HYD BASE ASM 3300-4300	1	
5.	72601144	CAP SCR .56-12X 2.00 HH GR8 Z	12	1
6.	72063326	WASHER-FLAT .56 N CUT ASTM F436	6	1
7.	72063117	WASHER .56 FLAT ASTM F436	6	1
8.	72601949	CAP SCR .50-13X 1.25 SH ZC	2	1
9.	72060003	CAP SCR .25-20X .88 HH GR5 Z	4	2
10.	72060044	CAP SCR .38-16X .75 HH GR5 Z	4	2
11.	72063001	WASHER .25 FLAT	8	2
12.	72062104	NUT .25-20 HEX NYLOCK	4	2
13.	72063051	WASHER .38 LOCK	4	2
14.	72063003	WASHER .38 FLAT	4	2
15.	70034382	CAP-GREASE PRO20 GC-RED	5	3
16.	72053301	COUPLING-GLV .12 SCH 40	2	3
17.	72053508	ZERK-NPT .12	2	3
18.	72053589	ELBOW-STREET BRS .12 X 90 DEG	2	3
19.	72532670	ELBOW-M JIC/45/F JIC 8 8	1	4
20.	72532674	CAP-JIC STL 4 (.44 THD)	1	4
21.	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1	4
22.	72053763	ELBOW-M STR/90/M JIC 8 8	1	4
23.	72535123	ELBOW-M JIC/90/F JIC SW 6 8	1	4
24.	72532792	ADPTR-M STR/M JIC 8 4	2	4
25.	72532690	ELBOW-M JIC/90/F JIC SW 4 4	2	4
26.	72533589	ADPTR-M STR/M JIC 10 4	2	4
27.	72534401	ELBOW-M JIC/45/F JIC 6 6	1	4
28.	76039295	GASKET-GEA19 008-10056-1	1	29
29.	71056718	GEAR ROTATOR 3300/4300	1	
30.	73051482	MOTOR-HYD C101-1036/D151-2005	1	
31.	51490385	HOSE-AA .13 X 4.50 (2-2) 100R17	2	
32.	60147893	GEAR GUARD 3300-4300 S5	1	
33.	52728737	WLDMT-MAST 3300/4300 S5	1	
34.	60147812	BRKT-MAST VB 3300-6300	2	
35.	73735318	VALVE-TELE CRN 4-FUNCTION D03 12V	1	
36.	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4	
37.	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1	
REV. INITIAL RELEASE				

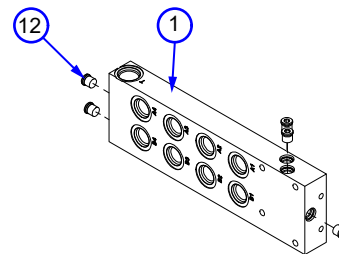
Hydraulic Valve Bank 3300-18 & 4300-18 (73735318)



DIRECTIONAL VALVE ASSEMBLY

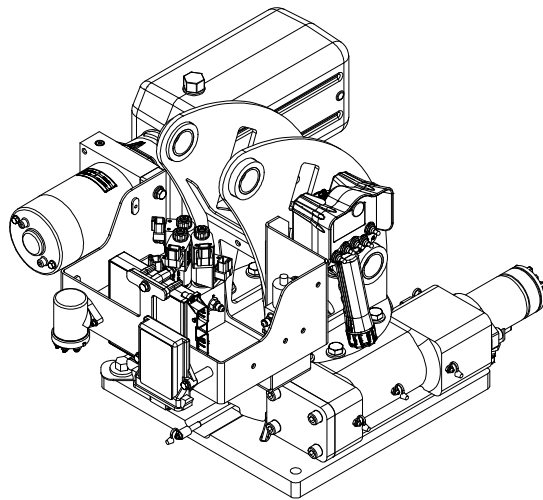


INLET MANIFOLD ASSEMBLY



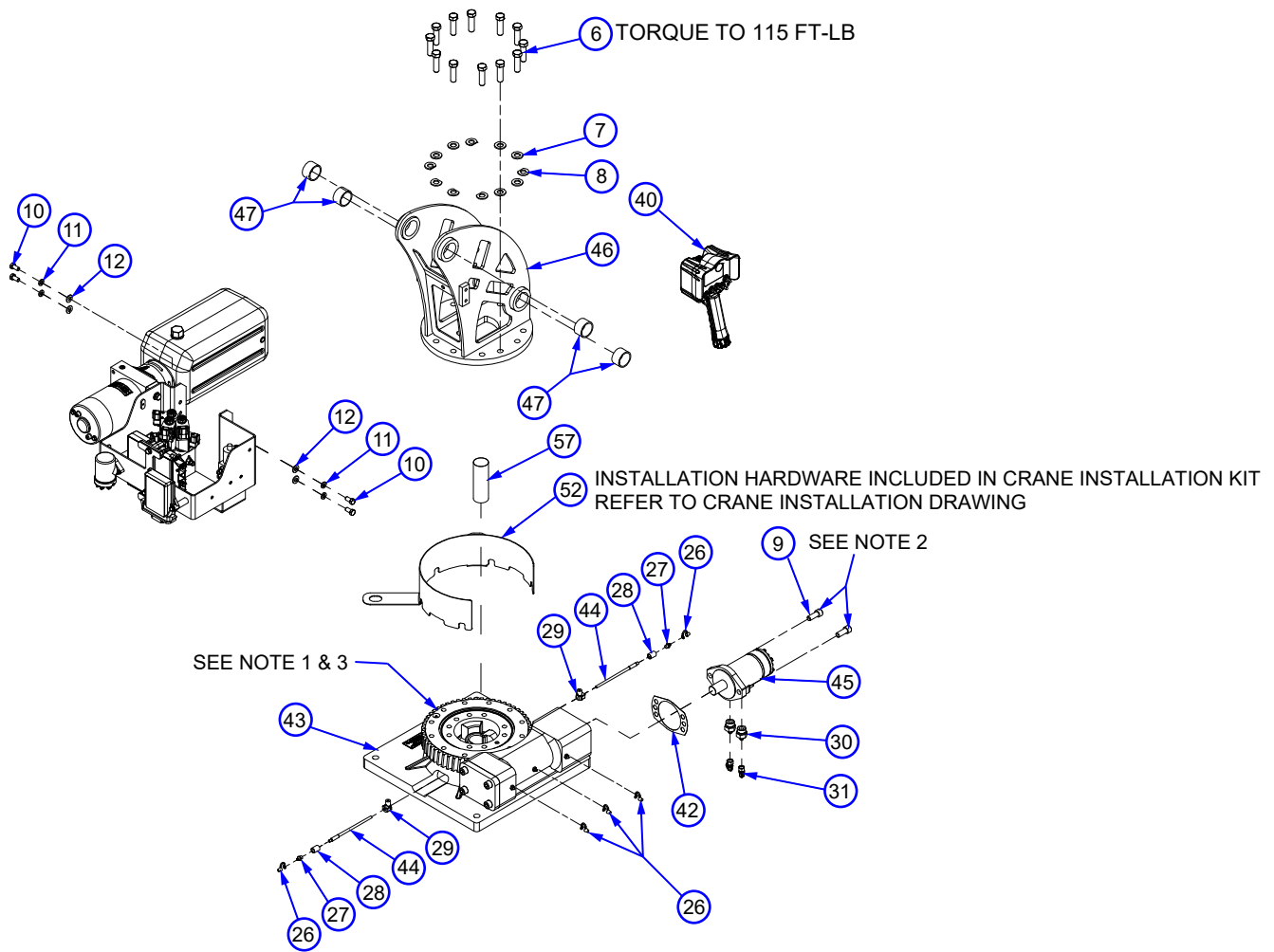
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	71417491	MANIFOLD-73735318 SUBPLATE	1
2	71417492	MANIFOLD-73735318 INLET	1
3	73540397	VALVE-BRAKE RELEASE SOLENOID	1
4	73540256	COIL-S SERIES FOR 73540397 12VDC DEUTSCH	1
5	73540252	VALVE-CART-P FLOW CTRL 12 VDC W MNL OVRD	1
5-1	73540253	COIL-FOR 73540252 12VDC DEUTSCH	1
6	72063049	WASHER .25 LOCK	8
7	73540396	RELIEF VALVE-3000 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. INITIAL RELEASE			

Electric Base Assembly 3300e-18 & 4300e-18 (99906954)



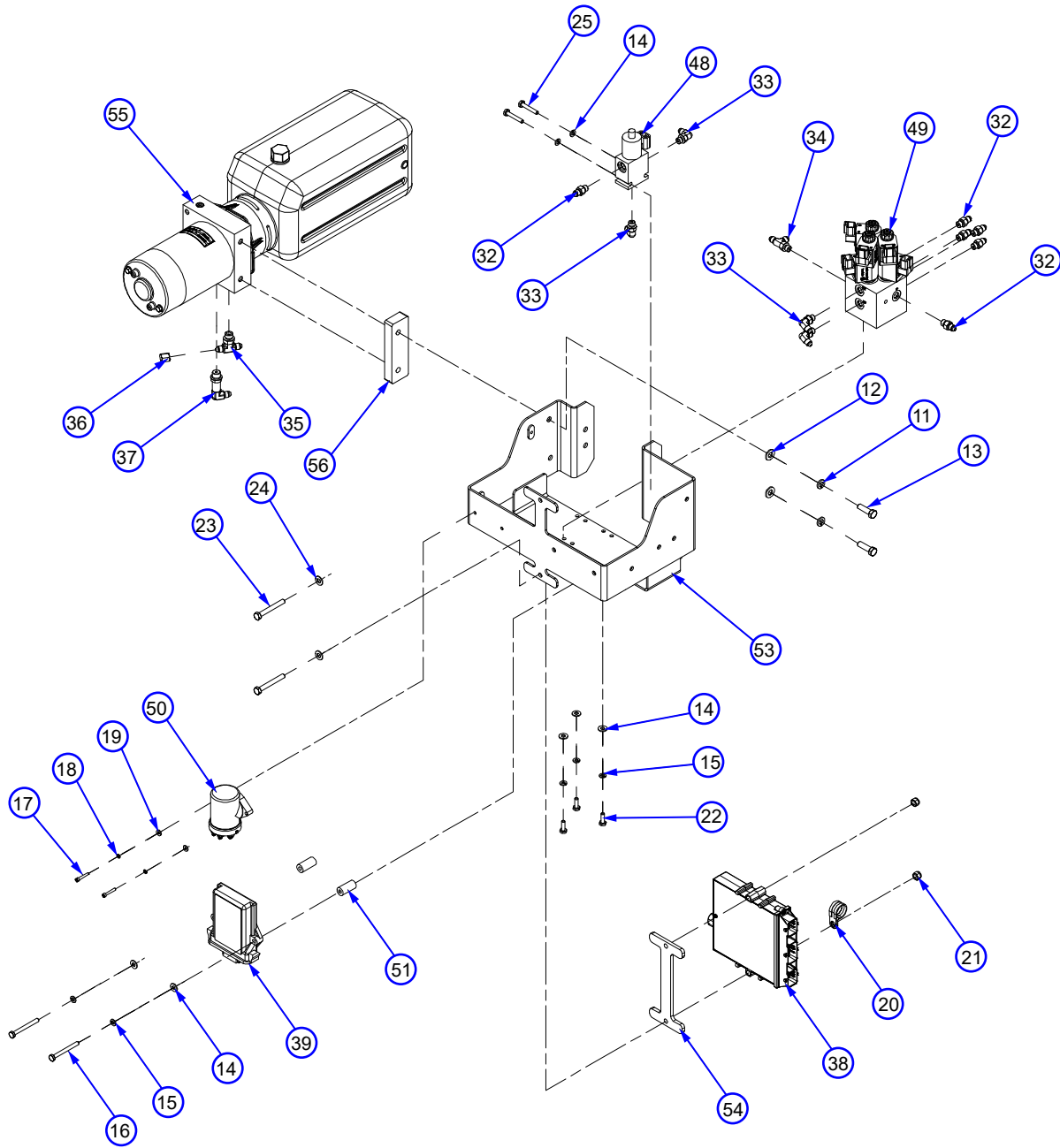
NOTES

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



TRUCK MOUNT

Electric Base Assembly 3300e-18 & 4300e-18 (99906954) CONTINUED



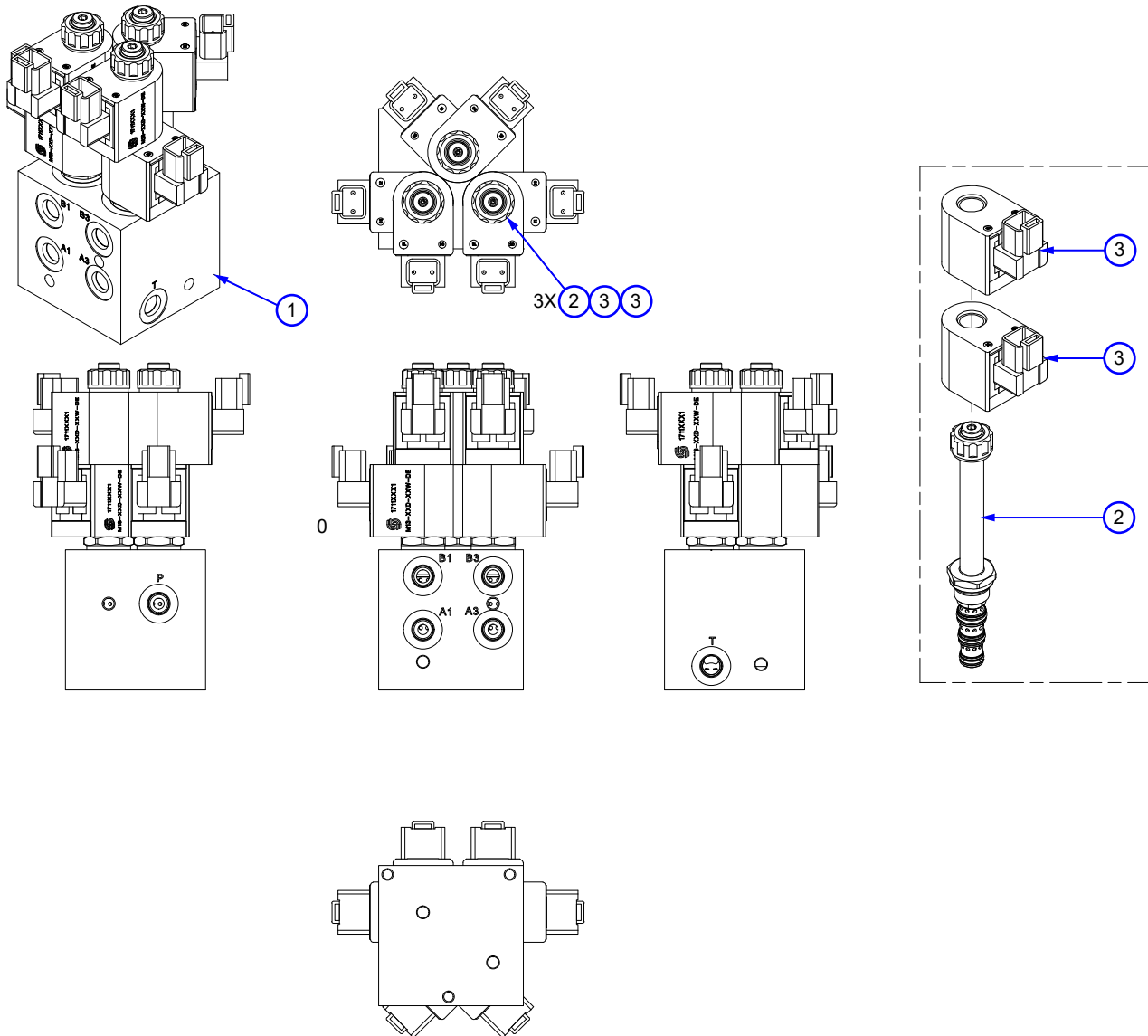
POWER UNIT ASSEMBLY

Eelectric Base Assmby 3300e-18 & 4300e-18 (99906954) PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728822	KIT-HRDW BASE ASM 3300-4300	1	
2	51728821	KIT-HRDW VALVE BANK ASM 3300E-6300E	1	
3	51728838	KIT-GREASE 3300-6300	1	
4	91728811	KIT-HYD BASE ASM 3300E-4300E	1	
5	51728908	KIT-ELEC SP CRANE CMD. CTRL 3300E-6300E	1	
6	72601144	CAP SCR .56-12X 2.00 HH GR8 Z	12	1
7	72063117	WASHER .56 FLAT ASTM F436	6	1
8	72063326	WASHER-FLAT .56 N CUT ASTM F436	6	1
9	72601949	CAP SCR .50-13X 1.25 SH ZC	2	1
10	72060044	CAP SCR .38-16X .75 HH GR5 Z	4	2
11	72063051	WASHER .38 LOCK	6	2
12	72063003	WASHER .38 FLAT	6	2
13	72060048	CAP SCR .38-16X 1.50 HH GR5 Z	2	2
14	72063001	WASHER .25 FLAT	7	2
15	72063049	WASHER .25 LOCK	5	2
16	72060010	CAP SCR .25-20X 2.50 HH GR5 Z	2	2
17	72601881	CAP SCR # 8-32X 1.00 SH PLAIN	2	2
18	72063239	WASHER # 8 LOCK	2	2
19	72063271	WASHER # 8 W FLAT ANSI B27.2Z	2	2
20	72066581	CLAMP-LOOP 1.00 CUSHIONED	1	2
21	72062109	NUT .31-18 HEX NYLOCK	2	2
22	72060002	CAP SCR .25-20X .75 HH GR5 Z	3	2
23	72060031	CAP SCR .31-18X 2.50 HH GR5 Z	2	2
24	72063002	WASHER .31 FLAT	2	2
25	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	2	2
26	70034382	CAP-GREASE PRO20 GC-RED	5	3
27	72053508	ZERK-NPT .12	2	3
28	72053301	COUPLING-GLV .12 SCH 40	2	3
29	72053589	ELBOW-STREET BRS .12 X 90 DEG	2	3
30	72533589	ADPTR-M STR/M JIC 10 4	2	4
31	72532690	ELBOW-M JIC/90/F JIC SW 4 4	2	4
32	72532351	ADPTR-M STR/M JIC 4 4	6	4
33	72053758	ELBOW-M STR/90/M JIC 4 4	4	4
34	72534582	TEE-STL STR/JIC/JIC 4 4 4 RUN	1	4
35	72534714	TEE-STL JIC/STR/JIC 4 6 4 BRANCH	1	4
36	72532674	CAP-JIC STL 4 (.44 THD)	1	4
37	72534567	ELBOW-M STR/90/M JIC XLG 6 4	1	4
38	77040742	CONTROLLER- CRANE MODULE S4	1	5
39	70735199	RECEIVER-RAD CAN BUS CMD.CTRL	1	5
40	70735198	TRANSM-RAD W/ LCD CMD.CTRL	1	5
41	77441782	HARNESS-ES5 SP CRANE	1	5
42	76039295	GASKET-GEA19 008-10056-1	1	43
43	71056718	GEAR ROTATOR 3000/4000	1	
44	51490385	HOSE-AA .13 X 4.50 (2-2) 100R17	2	
45	73051482	MOTOR-HYD C101-1036/D151-2005	1	
46	52728737	WLDMT-MAST 3000/4000 S5	1	
47	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4	
48	73540325	VALVE-PROP FLOW CNTRL 12V ELEC CRANE	1	
49	73735269	VALVE BANK ASM-3SEC ELEC CRN DANFOSS	1	
50	77040839	SOLENOID 500 AMP 12VDC TE SIDE MOUNT	1	
51	60147879	SLEEVE-TYPE C .63X 1.31X .27	2	
52	60147893	GEAR GUARD 3300-4300 S5	1	

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
53	52728794	WLDMT-VB BRKT 3300E-4300E	1	
54	60251891	PLATE-SPACER CMD CTRL BODY PANEL	1	
55	73511506	POWER UNIT-0.151 CU.IN. 12VDC MTE	1	
56	60147959	SPACER-POWER UNIT 3300E-6300E	1	
57	60350106	SLEEVE-HOSE VELCRO CLOSURE 2in DIA	0.5	
REV. INITIAL RELEASE				

Electric Valve Bank 3300e-18 & 4300e-18(73735269)

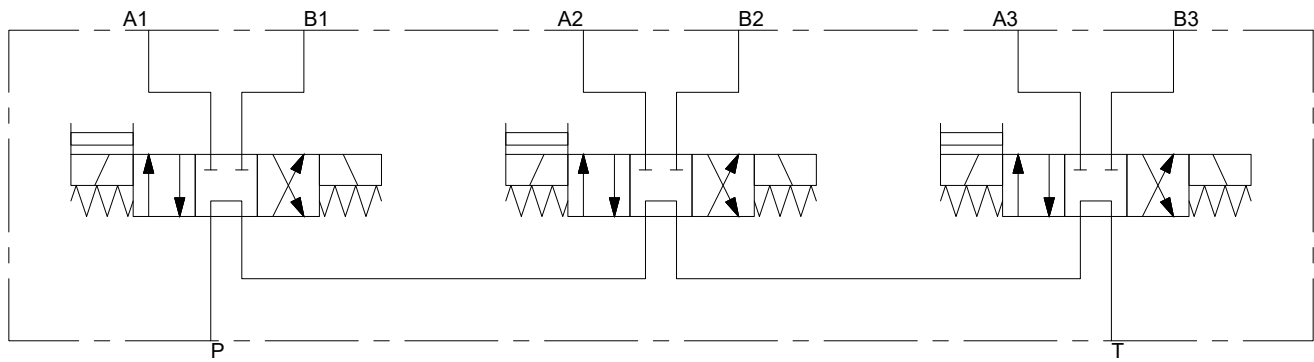


NOTE:
 MANIFOLD MATERIAL: 6061 ALUMINUM ALLOY
 ALL PORTS SEA-4 ORB

Electric valve bank (73735269) PARTS LIST

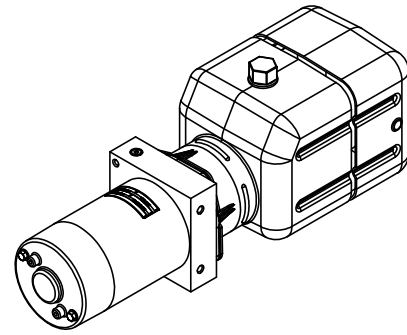
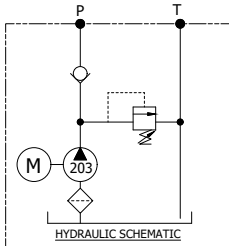
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	73540706	VALVE MANIFOLD-12203002-C05	1
2.	73540704	VALVE-3P4W SV08-34-04-00-00-B-00 NO COIL	3
3.	77411036	COIL-M13-12D-20W-DE	6
REV. INITIAL RELEASE			

Electric Valve Bank Schematic (73735269)

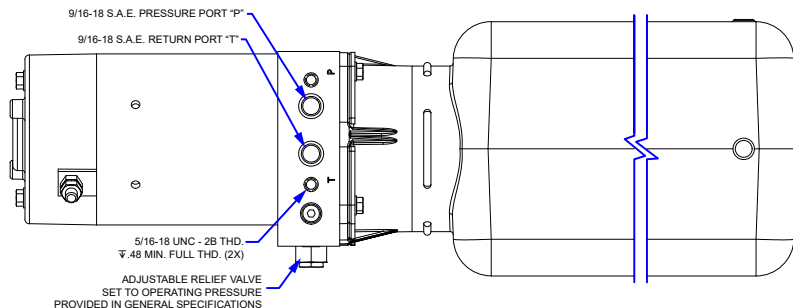
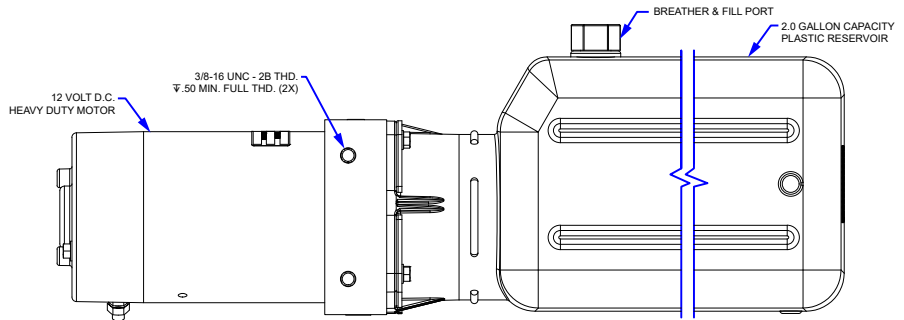
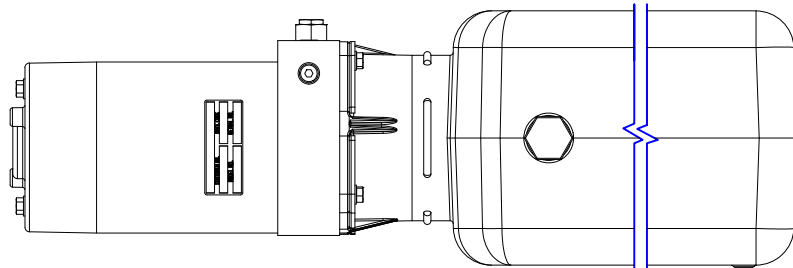
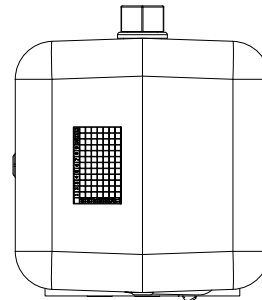
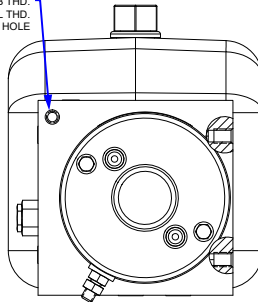


Power Unit 3300e-18 & 4300e-18 (73511506)

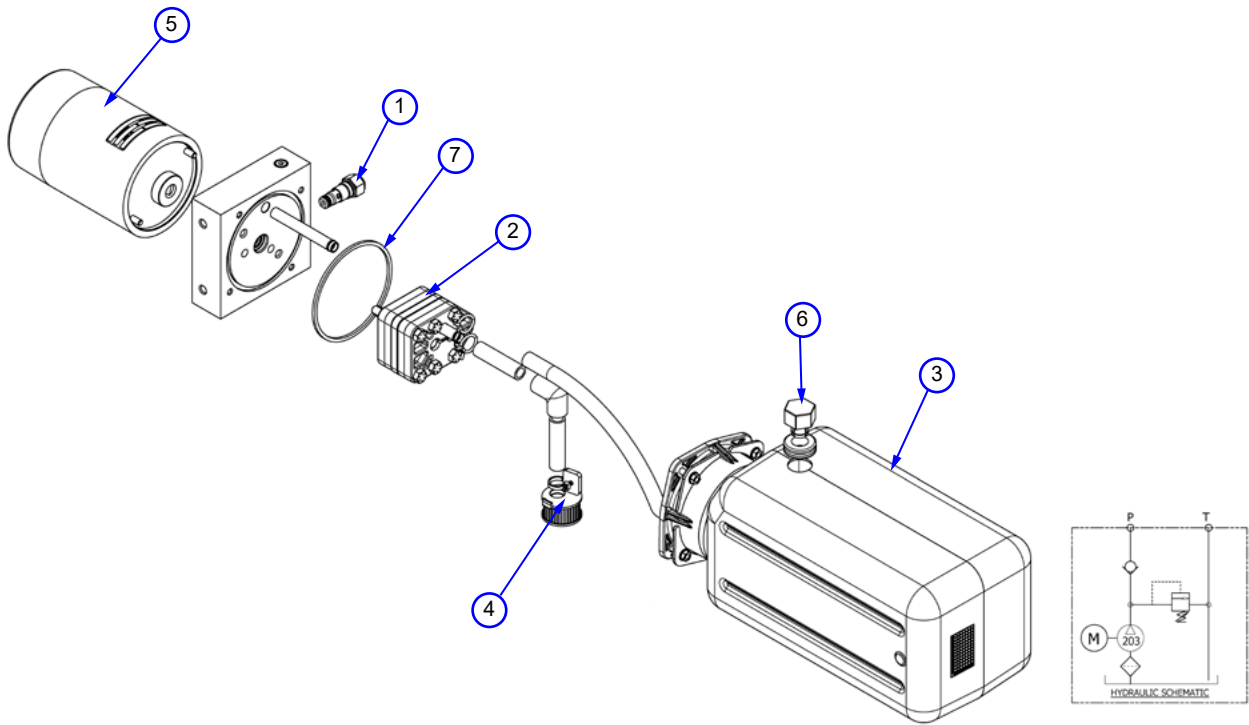
THEORETICAL DISPLACEMENT: .151 CU.IN./REV. (.000652 GAL./REV.)



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

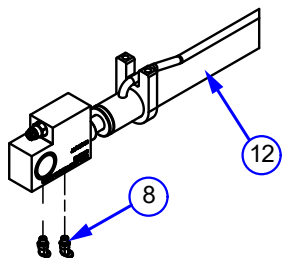
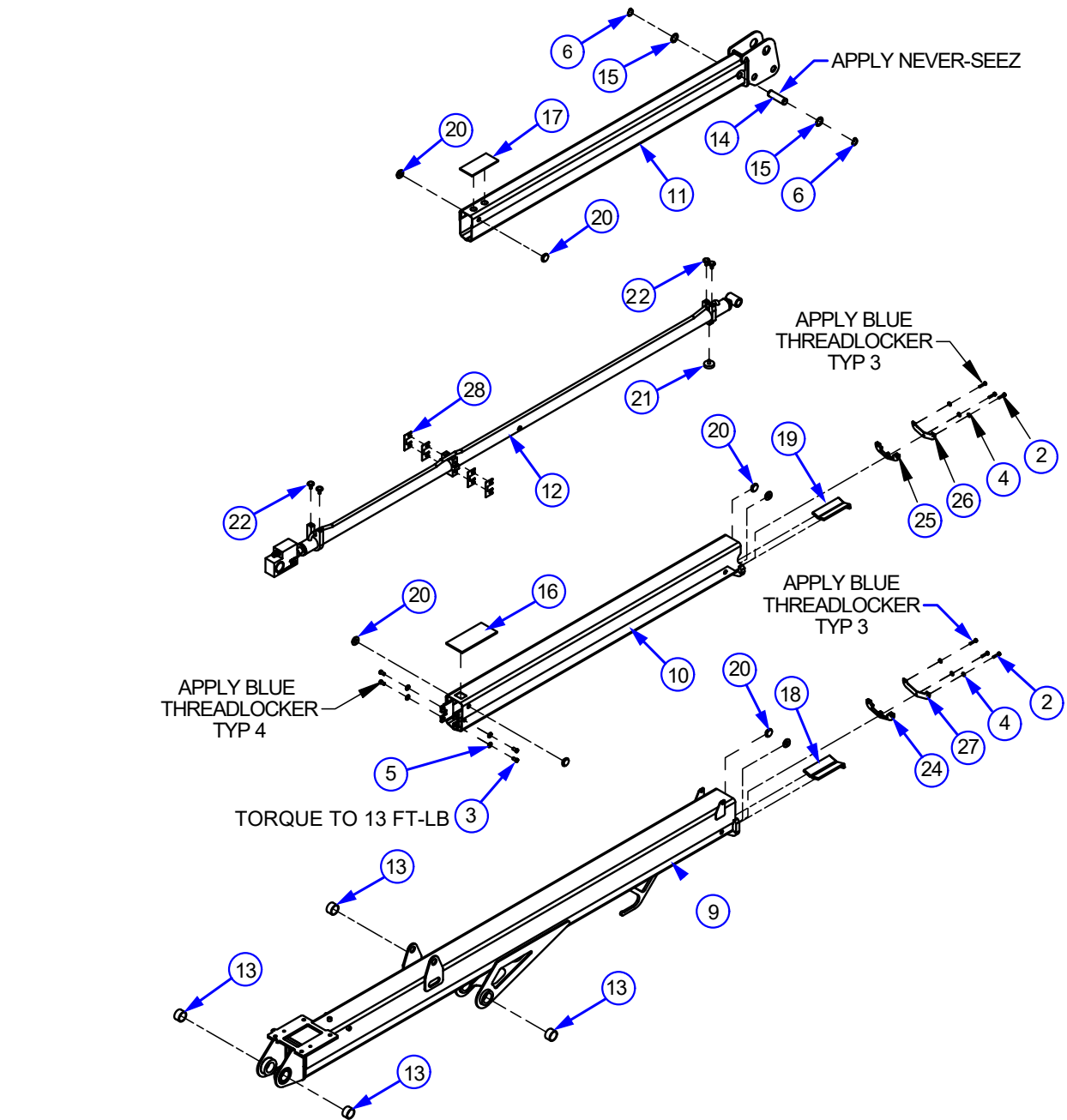


Power Unit 3300e-18 & 4300e-18 (73511506) PARTS LIST

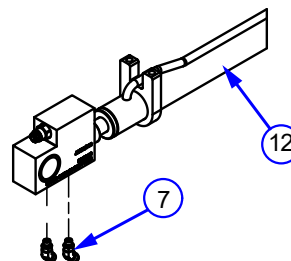


ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	73535130	RELIEF VALVE, RED SPRING	1
2	73350184	PUMP, 203	1
3	73490622	RESERVOIR, 2.0 GAL., 16.00	1
4	73735345	FILTER, ROUND PLASTIC	1
5	73490621	12 VDC MOTOR, HD XOT2	1
6	73735346	BREATHER-POWER UNIT 73511506	1
REV. INITIAL RELEASE			

Boom Assembly ALL MODELS (99906938)

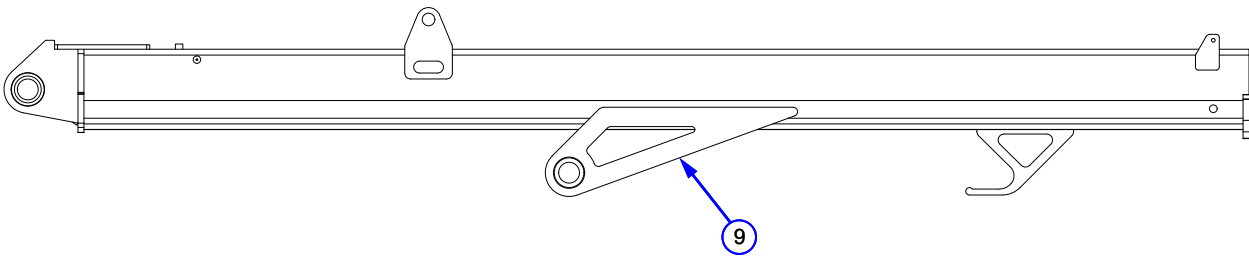
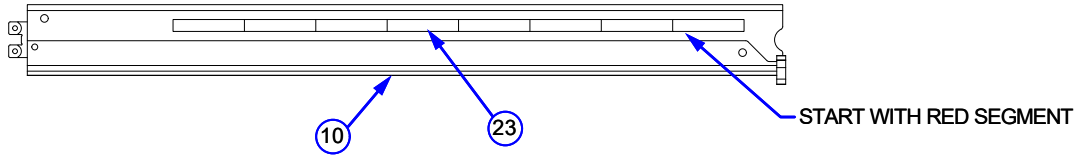
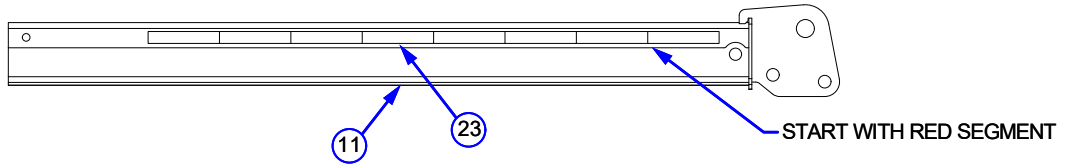


ELECTRIC



HYDRAULIC

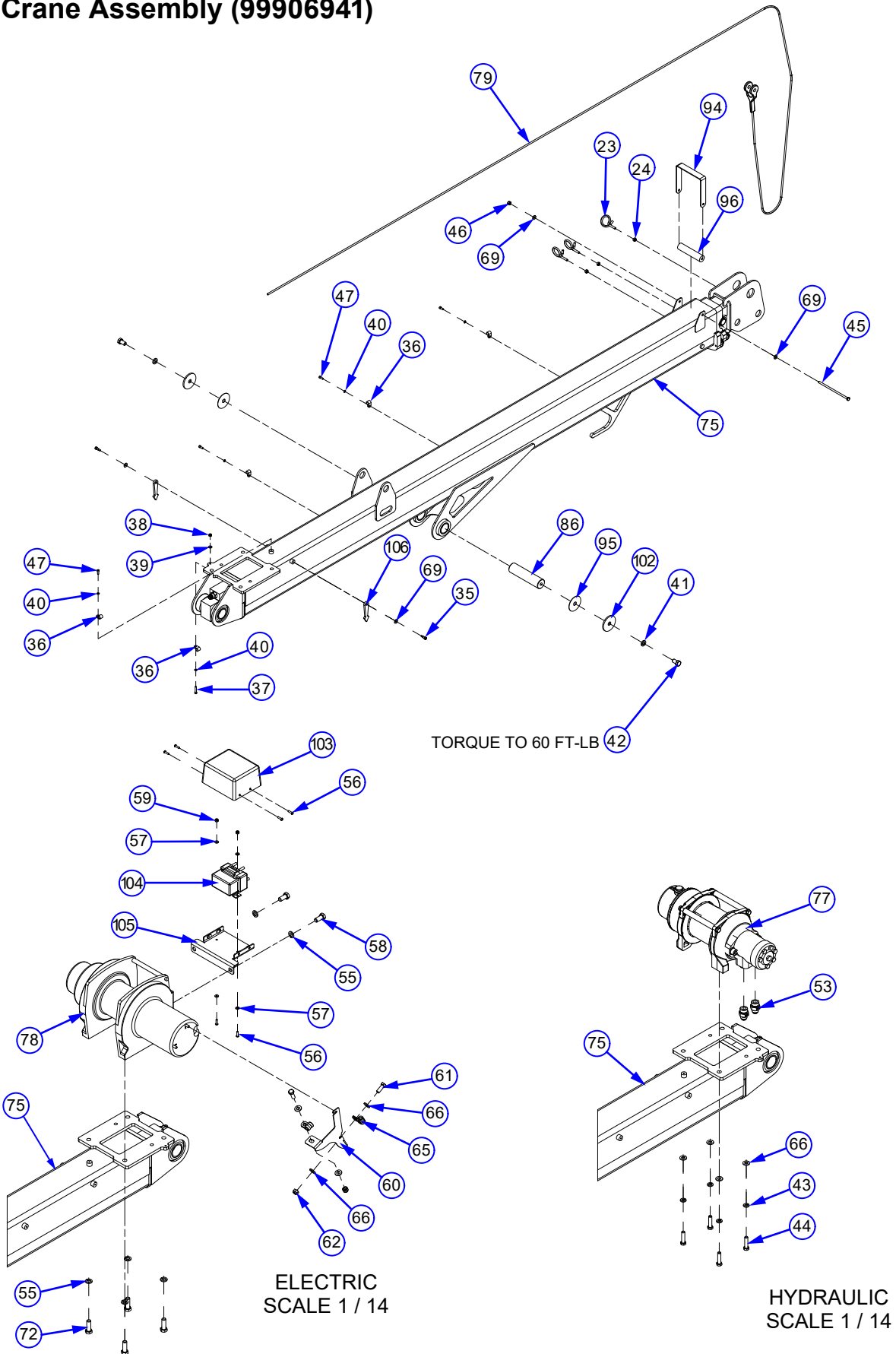
Boom Assembly ALL MODELS (99906938) CONTINUED



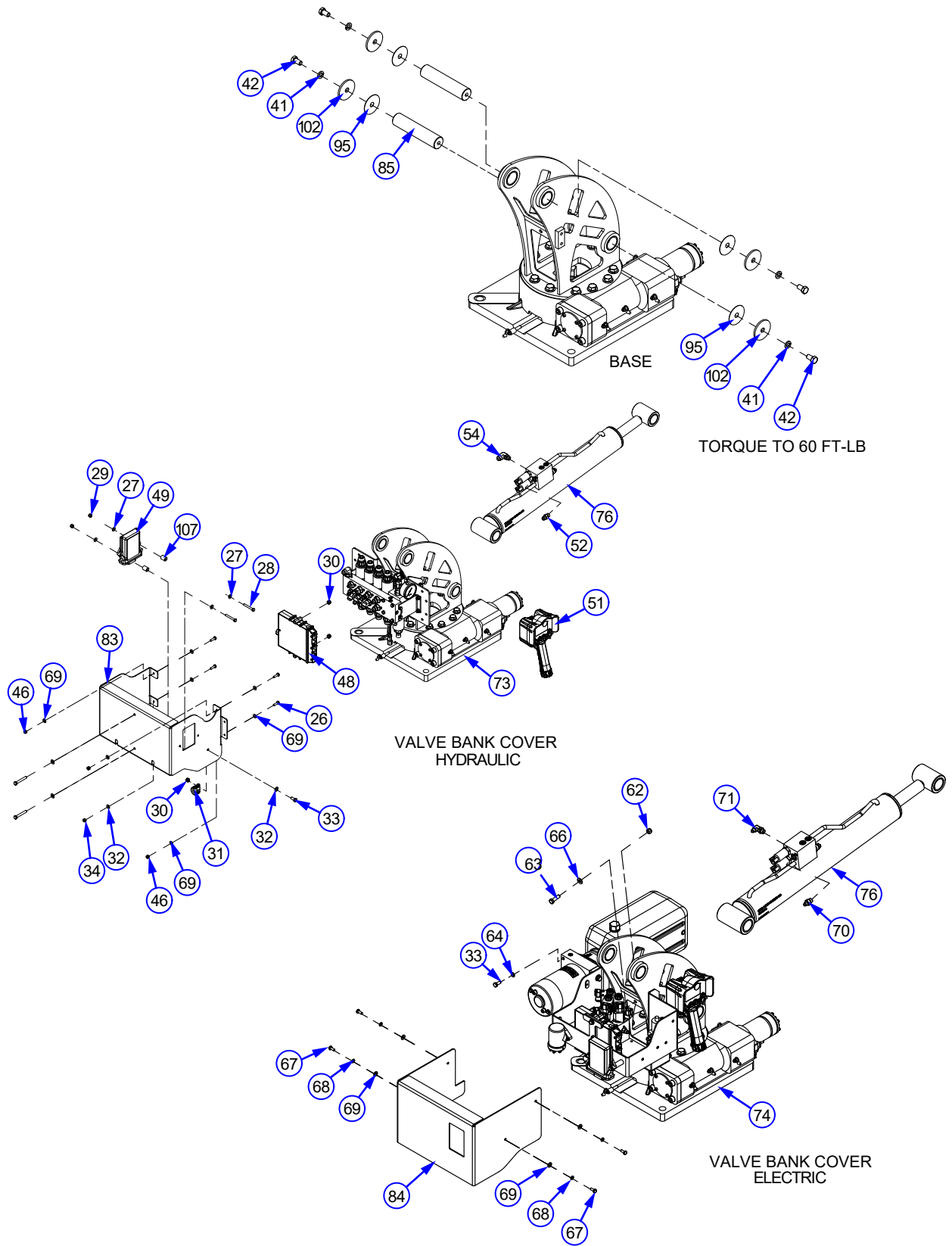
Boom Assembly (99906938) PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728860	KIT-HRDW BOOM ASM 3300E-4300	1	
2	72060005	CAP SCR .25-20X 1.25 HH GR5 Z	6	1
3	72060760	CAP SCR .38-16X .75 SH LOW PROFILE	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	72535124	ELBOW-M STR/45/M JIC 4 6	2	
8	72533020	ELBOW-M STR/45/M JIC 4 4	2	
9	52728688	WLDMT-LOWER BOOM 3300-4000 S5	1	
10	52728700	WLDMT-1ST STAGE EXT BOOM 3300-4000 S5	1	
11	52728713	WLDMT-2ND STAGE EXT BOOM 3300-4000 S5	1	
12	51729062	CYL-1.50/1.00 1.50/1.00 88.00S 104.63CC S5	1	
13	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	4	
14	70190018	PIN-TYPE A 1.00X 3.35 (2.92) SS	1	
15	70190010	MACHY BUSHING 1.00X14 GA SS	2	
16	60030628	WEAR PAD-RC 0.25X 8.00X 3.63	1	
17	60030629	WEAR PAD-RC 0.19X 6.00X 2.81	1	
18	60030604	WEAR PAD-RC 0.25X 6.00X 1.50	2	
19	60030609	WEAR PAD-RC 0.25X6.00X1.25	2	
20	60030607	WEAR PAD-RND 0.25X 1.38X 0.63X 0.34	8	
21	60030612	WEAR PAD-RND 3000-4000 EXT CYL	1	
22	60030622	WEAR PAD-RND .25X 1.00X .35X .81	4	
23	70490534	TAPE-REFLECTIVE RED/SILVER 1.00X48.00	4	
24	60147820	SPACER-LOWER BOOM WP 3000-4000	1	
25	60147818	SPACER-1ST EXT WP 4000	1	
26	60147679	RETAINER-1ST EXT WP 3000-4000	1	
27	60147819	RETAINER-LOWER BOOM WP 3000-4000	1	
28	60147961	SHIM-EXT CYL YOKE 3300-4000 S5	AR	
REV. INITIAL RELEASE				

Crane Assembly (99906941)



Crane Assembly (99906941) CONTINUED



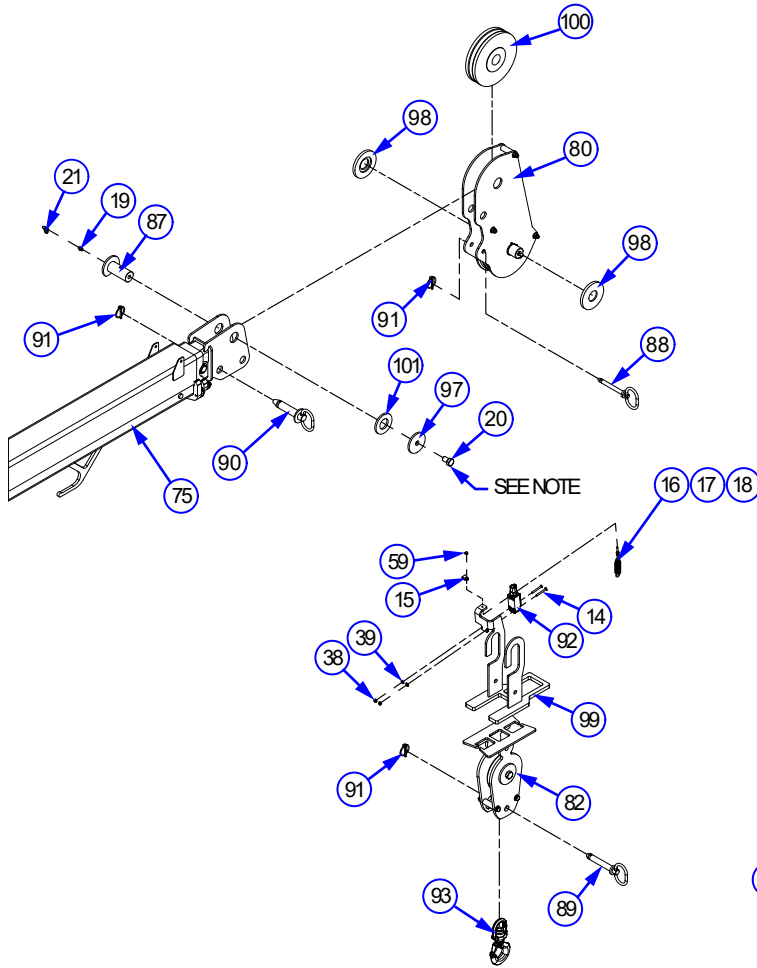
Crane Assembly (99906941) CONTINUED

NOTES

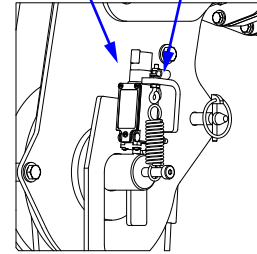
1. APPLY BLUE THREAD LOCKER

LIMIT SWITCH SHOULD BE AS HIGH UP AS POSSIBLE IN SLOTS

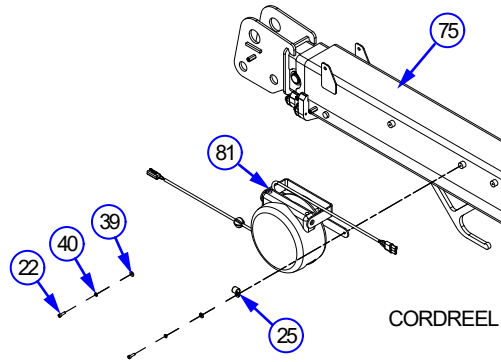
EYE-BOLT SHOULD BE ORIENTED AS SHOWN



SEE NOTE



VIEW21



CORDREEL

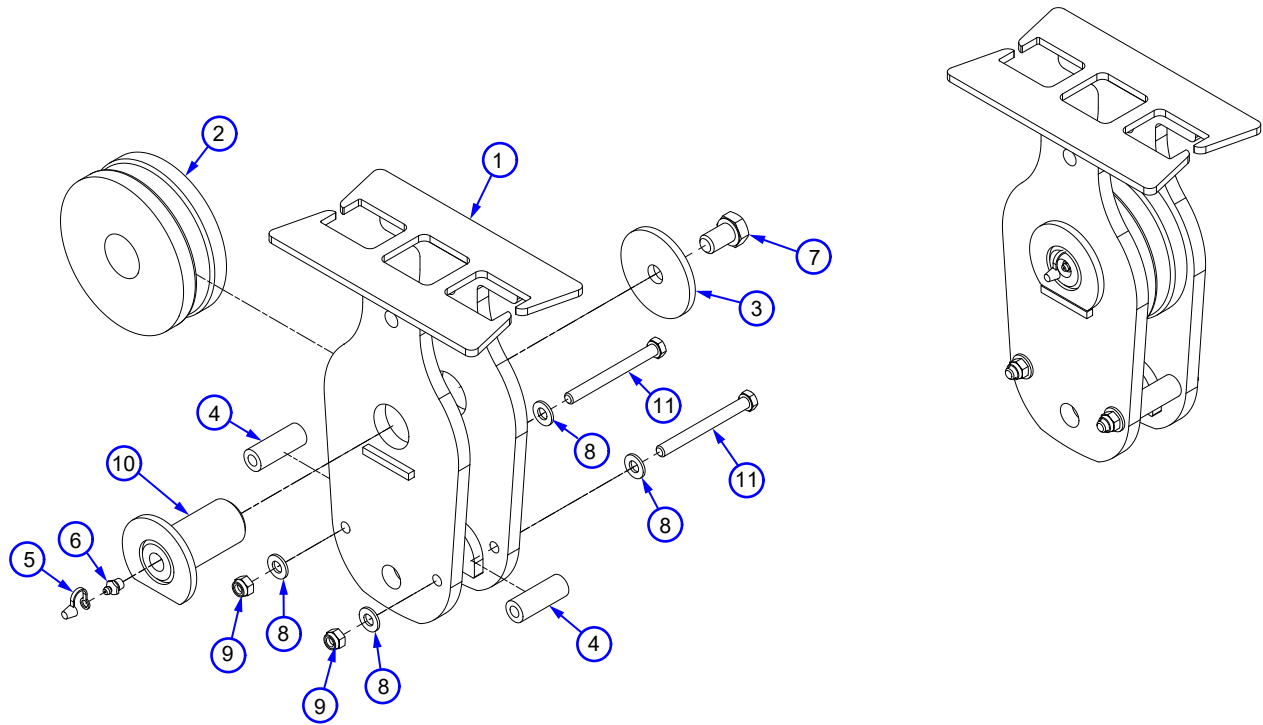
Crane Assembly (99906941) PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728910	KIT-HRDW A2B ASM 3300-12600	1	
2	51728911	KIT-HRDW ZECA CORDREEL ASM 3300-6300E	1	
3	51728915	KIT-HRDW VB COVER ASM 3300-12600	1	
4	51728912	KIT-HRDW ACCESSORIES 3300-4300	1	
5	51728913	KIT-HRDW PINNING 3300-12600	1	
6	51728916	KIT-HRDW WINCH 3300-4300	1	
7	51728914	KIT-HRDW WIRE ROPE GUIDE 3300-4300	1	
8	51728917	KIT-ELEC SP CRANE CMD.CTRL 3300-12600	1	
9	91728922	KIT-HYD SP CRANE ASM 3300-4300	1	
10	51728918	KIT-HRDW WINCH 3300E-4300E	1	
11	51728919	KIT-HRDW ELEC. INST. 3300E-4300E	1	
12	51728920	KIT-HRDW VB COVER 3300E-6300E	1	
13	91728921	KIT-HYD CRANE ASM 3300E-4300E	1	
14	72060641	SCR-MACH 10-24X 1.75 RDH	2	1
15	72034485	CLAMP-PLASTIC 1/4" CABLE	1	1
16	72601938	BOLT-EYE # 8-32X 1.125	1	1
17	72062093	NUT # 8-32 HEX ZINC	1	1
18	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	1	1
19	72053508	ZERK-NPT .12	1	1
20	72601335	CAP SCR .62-11X 1.00 HH SS	1	1
21	70034382	CAP-GREASE PRO20 GC-RED	1	1
22	72602215	CAP SCR #10-24X 0.63 SH ZINC	2	2
23	72661694	BRIDLE RING 1-1/12ID X 1/4-20	3	2
24	72062000	NUT .25-20 HEX	3	2
25	72661801	CLAMP-LOOP .20X .50 VINYL COVERED	1	2
26	72060003	CAP SCR .25-20X .88 HH GR5 Z	4	3
27	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	4	3
28	72601995	CAP SCR .25-20X 2.00 HH SS	2	3
29	72062194	NUT-SS .25-20 NYLOC	2	3
30	72062109	NUT .31-18 HEX NYLOCK	3	3
31	72066582	CLAMP-LOOP 1.25 CUSHIONED	1	3
32	72063002	WASHER .31 FLAT	3	3, 11
33	72060023	CAP SCR .31-18X .75 HH GR5 Z	2	3, 11
34	72060030	CAP SCR .31-18X 2.25 HH GR5 Z	2	3
35	72601119	BOLT-SHLDR .25X .38	2	4
36	72034572	CLAMP-PLASTIC .38 CABLE	5	4
37	72602214	CAP SCR #10-24X 1.00 SH ZINC	1	4
38	72062106	NUT 10-24 HEX NYLOCK	3	1, 4
39	72063268	WASHER #10 W FLAT ANSI B27.2Z	5	1, 2, 4
40	72063047	WASHER #10 LOCK	7	2, 4
41	72063144	WASHER-SS .50 LOCK TYPE 304	6	5
42	72602168	CAP SCR .50-13X .88 HH SS	6	5
43	72063051	WASHER .38 LOCK	4	6
44	72060048	CAP SCR .38-16X 1.50 HH GR5 Z	4	6
45	72060020	CAP SCR .25-20X 6.00 HH GR5 Z	1	7
46	72062104	NUT .25-20 HEX NYLOCK	5	3, 7
47	72602212	CAP SCR #10-24X .50 SH ZINC	4	4, 7
48	77040742	CONTROLLER- CRANE MODULE S4	1	8
49	70735199	RECEIVER-RAD CAN BUS CMD.CTRL	1	8
50	77441718	HARNESS-S4 SP CRANE	1	8
51	70735198	TRANSM-RAD W/ LCD CMD.CTRL	1	8
52	72532355	ADPTR-M STR/M JIC 6 6	1	9
53	72532359	ADPTR-M STR/M JIC 10 8	2	9
54	72053762	ELBOW-M STR/90/M JIC 6 8	1	9
55	72601798	WASHER-LOCK 12MM	6	10
56	72602011	SCR-MACH # 8-32X .62 BTNHD ZC	6	10

Crane Assembly (99906941) PARTS LIST CONTINUED

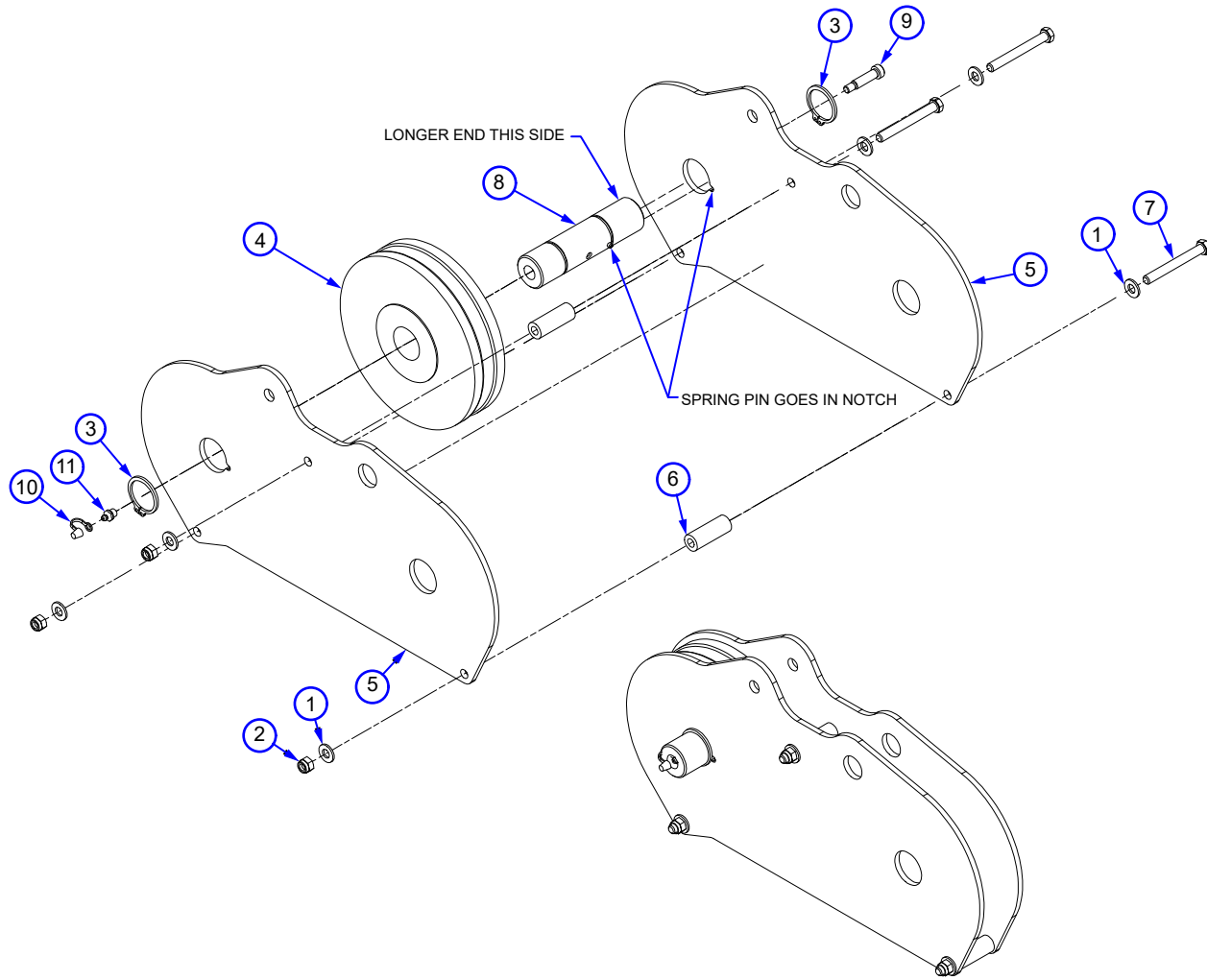
57	72063271	WASHER # 8 W FLAT ANSI B27.2Z	4	10
58	72601805	CAP SCR M12-1.75X 25 HHZ	2	10
59	72062207	NUT 8-32 HEX NYLOCK	3	1, 10
60	60147652	BRKT-HOIST CABLE 3203i 4004i	1	11
61	72060046	CAP SCR .38-16X 1.00 HH GR5 Z	2	11
62	72062103	NUT .38-16 HEX NYLOCK	3	11
63	72060047	CAP SCR .38-16X 1.25 HH GR5 Z	1	11
64	72063050	WASHER .31 LOCK	1	11
65	72661312	CLAMP-LOOP .50 CUSHIONED	2	4, 11
66	72063003	WASHER .38 FLAT	9	6, 11
67	72060001	CAP SCR .25-20X .62 HH GR5 Z	4	12
68	72063049	WASHER .25 LOCK	4	12
69	72063001	WASHER .25 FLAT	16	3, 4, 7, 12
70	72532353	ADPTR-M STR/M JIC 6 4	1	13
71	72532699	ELBOW-M STR/90/M JIC 6 4	1	13
72	72661799	CAP SCR M12-1.75X 35 HH 8.8 Z	4	78
73	99906936	DWG-BASE ASM 3300-4300 S5	1	
74	99906954	DWG-BASE ASM 3300E-4300E S5	1	
75	99906938	DWG-BOOM ASM 3300E-4300 S5	1	
76	51729068	CYL-3.25/1.50 21.94S 28.67CC S5	1	
77	70571365	WINCH-3000/4000 2000LB	1	
78	71570922	WINCH-DC2000 12VDC	1	
79	70580197	WIRE ROPE ASM-.25(7X19)X75FT GAC RRL	1	
80	51728668	FLIP SHEAVE ASM 3000-4000 S5	1	
81	51728824	CORD REEL ASM 13.00" W/PACKARD CONN 3WIRE	1	
82	51728831	SNATCH BLOCK- DWNHL COMB ASM 3000-4000	1	
83	60147814	COVER-VLV BANK ALL CRANE HYD	1	
84	60147877	COVER-VLV BANK 3300E-6300E	1	
85	70190022	PIN-TYPE AB 1.50X 6.75 SS	2	
86	70190023	PIN-TYPE AB 1.50X 6.00 SS	1	
87	52723030	PIN-TYPE M 1.50X 3.38	1	
88	72735305	PIN-LOCK W/HANDLE 0.50 X 4.00 W/HAIRPIN	1	
89	73734752	PIN-LOCK W/HANDLE 0.75 X 4.00 W/HAIRPIN	1	
90	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN	1	
91	72661543	PIN-QUICK 316-10QP	3	
92	77041863	SWITCH-LIMIT DT04-4P CONN	1	
93	70735101	HOOK-SWVL BBRG 2TON W/LATCH	1	
94	60147808	GUIDE-WINCH CABLE 3300-4300	1	
95	60030590	WEAR PAD-RND 0.56X 2.44X .03	6	
96	60030625	ROLLER-CABLE GUIDE 0.31X 1.00X 4.56	1	
97	60109337	RETAINER PLT-PIN 3.00 DIA	1	
98	60030614	SPACER-A2B BRKT	2	
99	52728671	WLDMT- A2B BRKT	1	
100	60030611	SHEAVE- 7.88 NYLATRON GSM	1	
101	60147715	SPACER- RETAINER PIN 1.56 X 3.00 X 0.25	1	
102	70190003	RETAINER PLT-PIN 0.19 X 2.50 DIA SS	6	
103	70034503	COVER-ELEC CONTACTOR	1	
104	77041932	CONTACTOR-WINCH 12V DC2000	1	
105	52728825	WLDMT-WINCH CONTACTOR 3300E-4300E	1	
106	60146295	PLATE-ANGLE STEEL 3.50 IN	2	
107	60133634	SLEEVE-TYPE C .63X .81X .31	2	
REV. INITIAL RELEASE				

Snatch Block ALL MODELS (51728831)



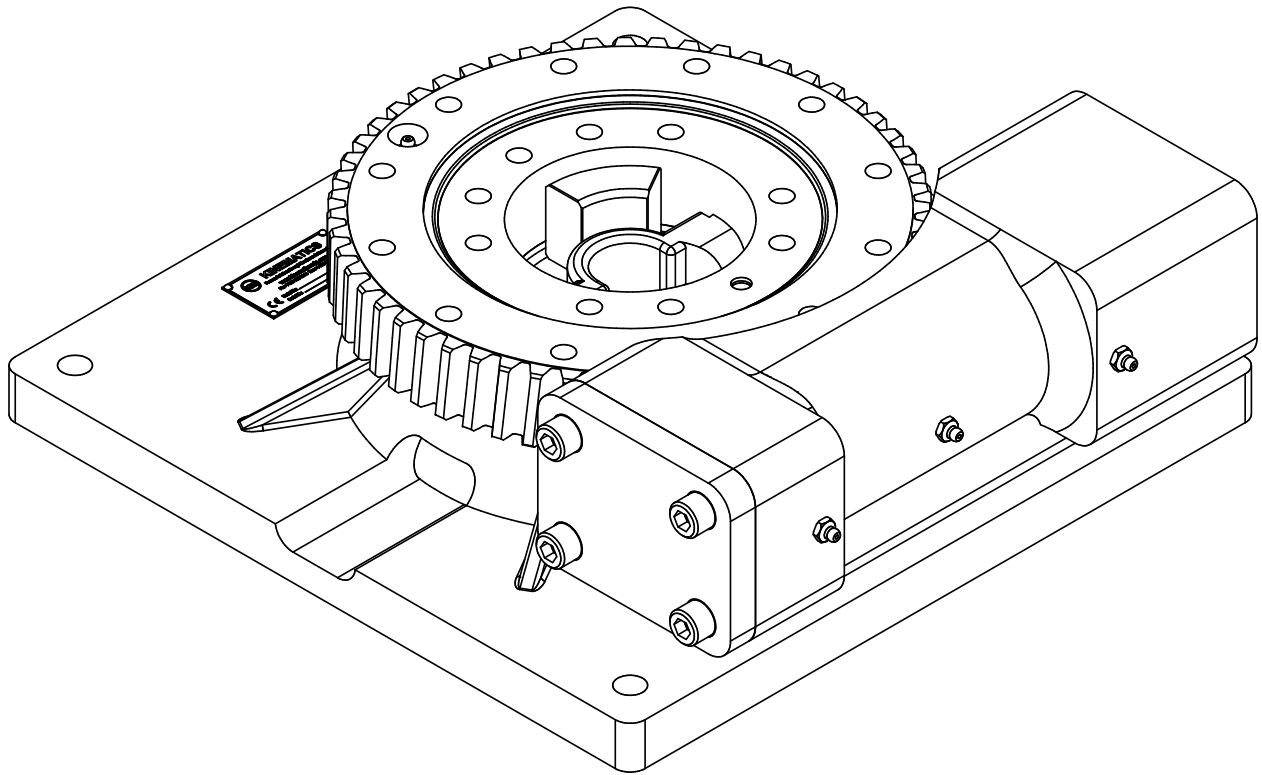
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	52728828	WLDMT-SNATCH BLOCK DWNHL COMB 3000-4000	1
2	60030605	SHEAVE- 5.38 NYLATRON GSM	1
3	60109337	RETAINER PLT-PIN 3.00 DIA	1
4	60030617	NYLON UNTHREADED SPACER 0.75X0.39X2.00	2
5	70034382	CAP-GREASE PRO20 GC-RED	1
6	72053508	ZERK-NPT .12	1
7	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	1
8	72063003	WASHER .38 FLAT	4
9	72062103	NUT .38-16 HEX NYLOCK	2
10	52707731	PIN-TYPE M 1.50X 3.00	1
11	72060923	CAP SCR .38-16X 3.75 HH GR5 Z	2
REV. INITIAL RELEASE			

Flip Sheave ALL MODELS (51728668)

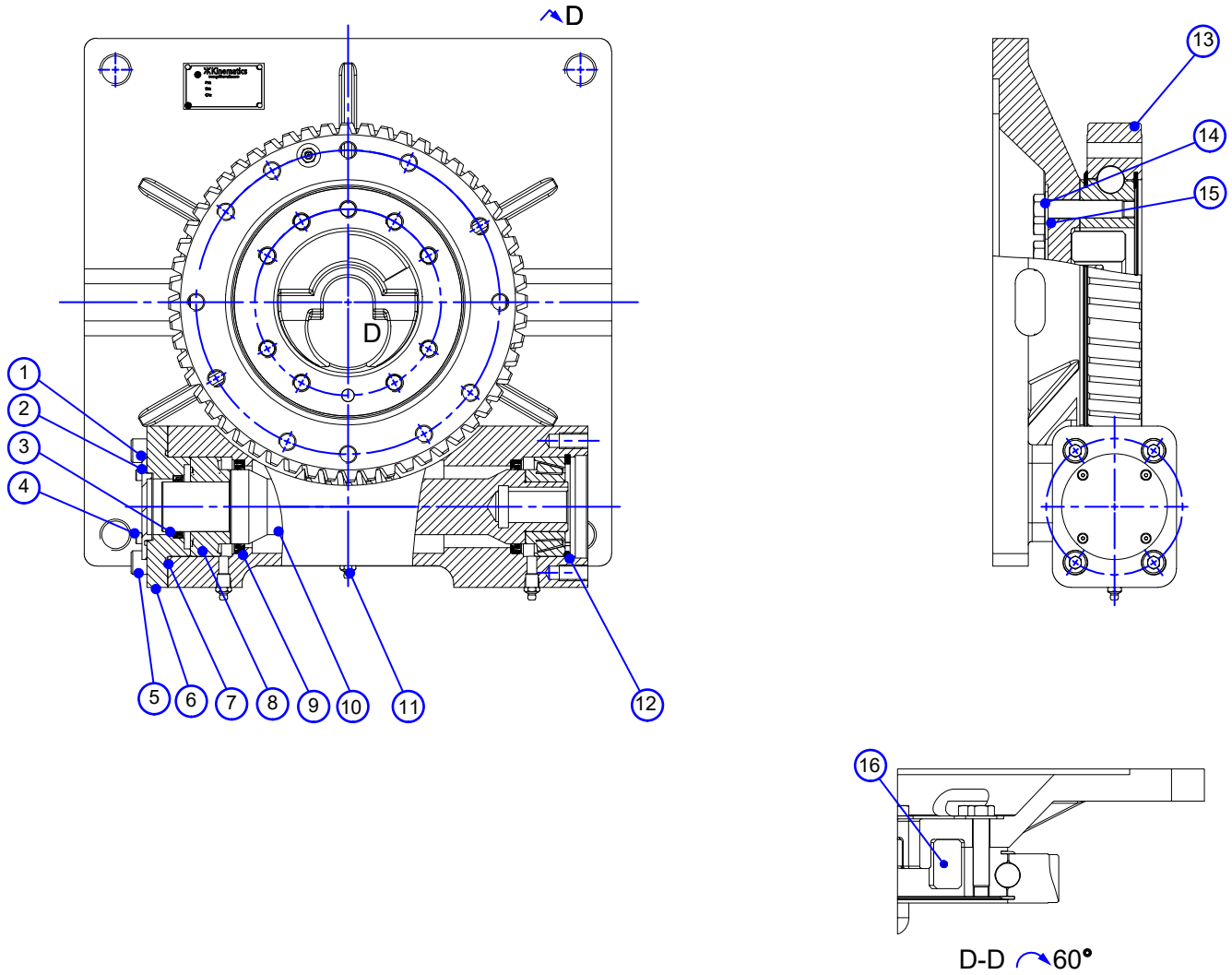


ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	72063003	WASHER .38 FLAT	6
2	72062103	NUT .38-16 HEX NYLOCK	3
3	72661774	RETAINING RING-EXT 1.50 HD YZ	2
4	60030611	SHEAVE- 7.88 NYLATRON GSM	1
5	60147828	PLATE-FLIP SHEAVE ASM 3300-4000	2
6	60030617	NYLON UNTHREADED SPACER 0.75X0.39X2.00	3
7	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	3
8	51727745	FLIP SHEAVE PIN ASM	1
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 (71056718)



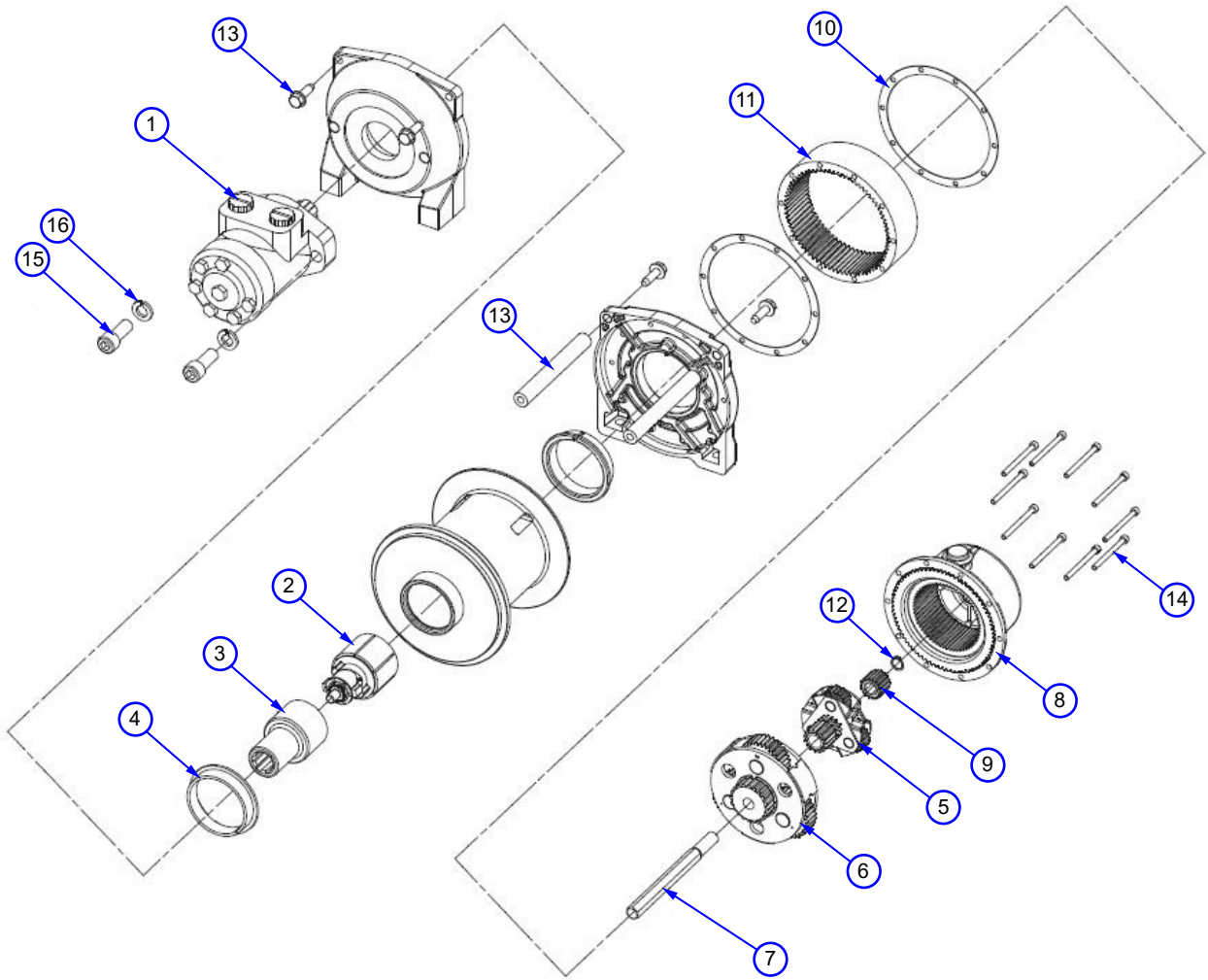
Gear Rotator (71056718) CONTINUED



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

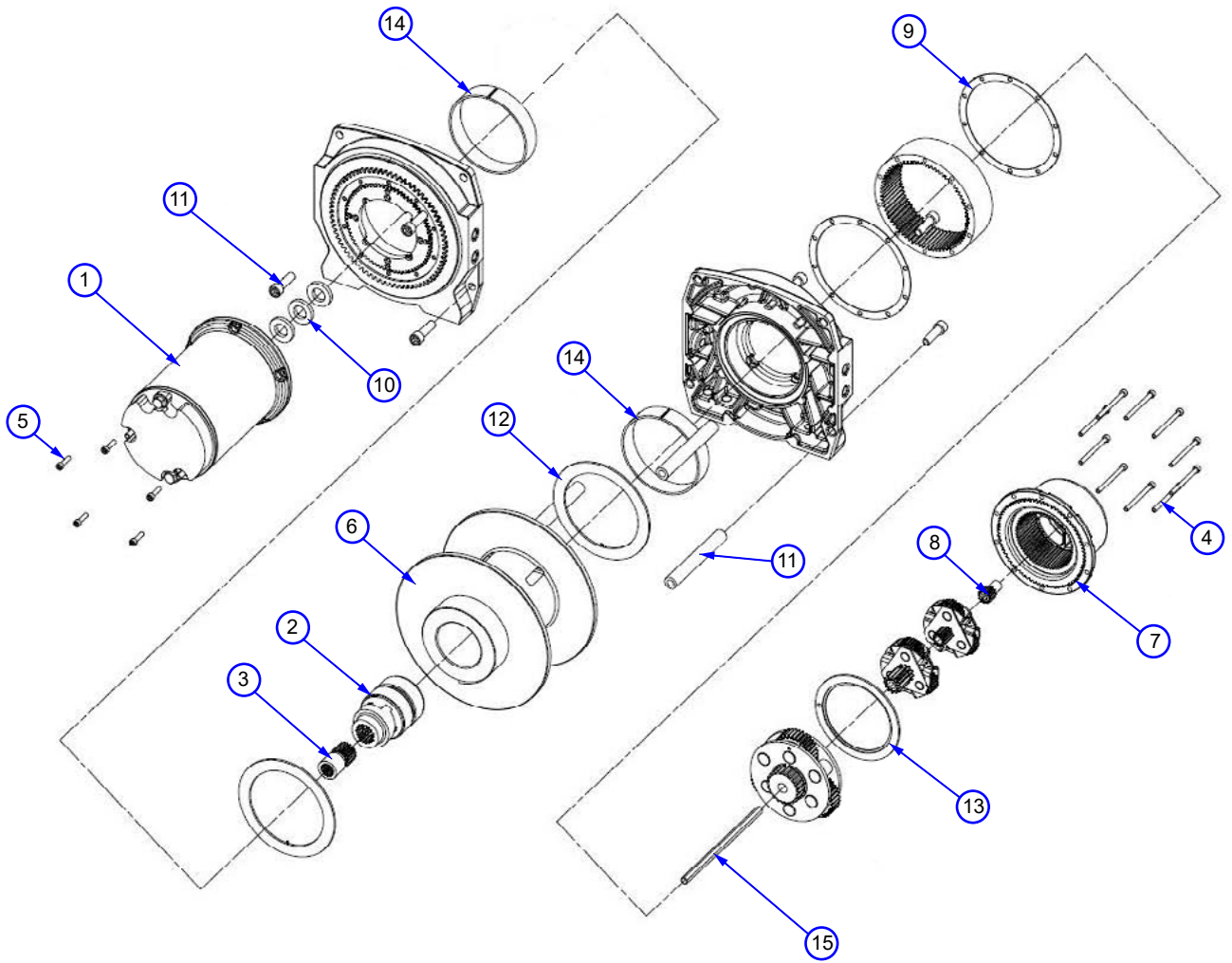
Hydraulic Hoist (70571365) 3300-18 & 4300-18



Hoist (70571365) 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			

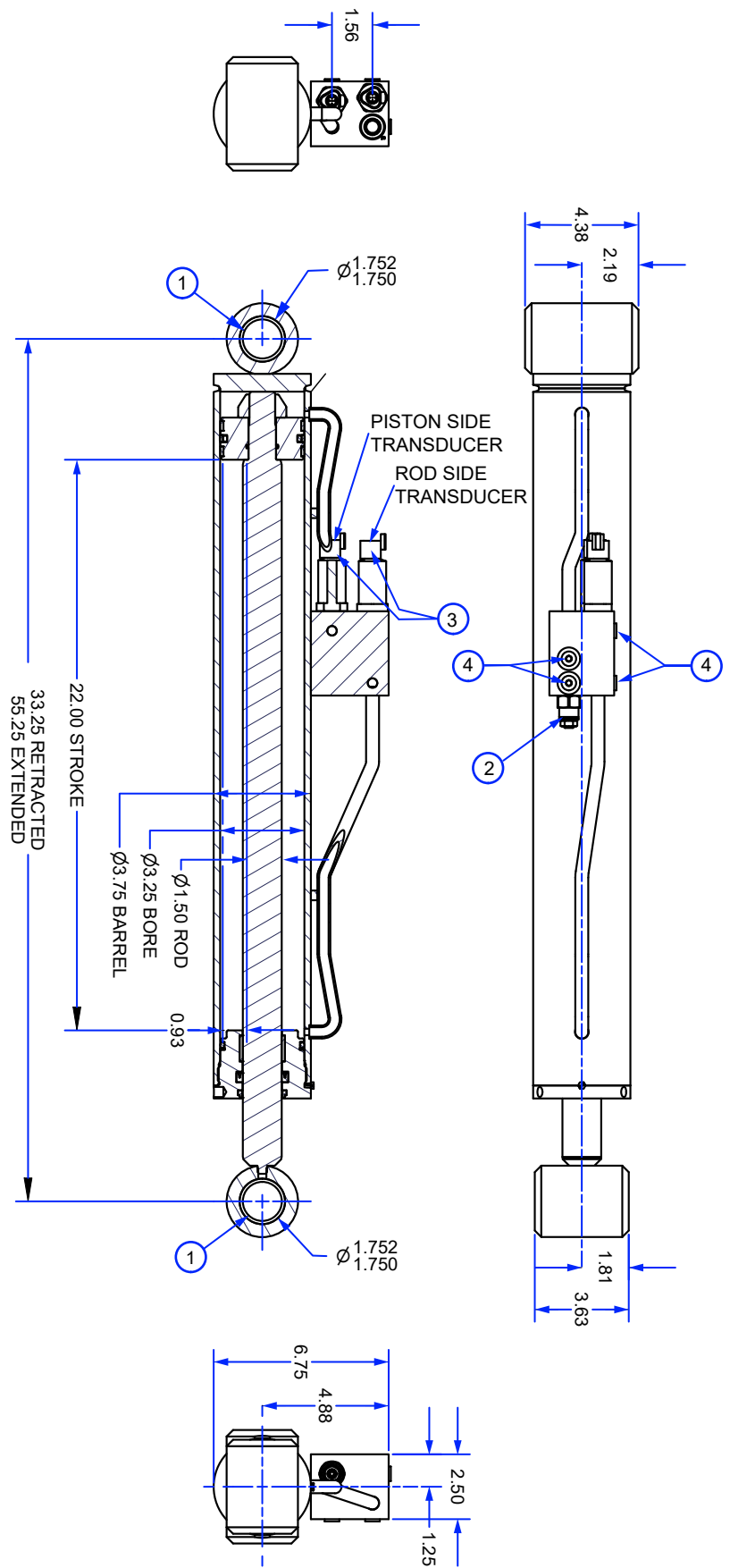
Hoist (71570922) 3300e-18 & 4300e-18



71570922 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 (51729068)



Lower Cylinder (51729068) PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	70034580	BEARING MRP 1.50X1.75X1.50 POLYGON	4
2	73540490	VALVE-CBAL CBBB-LAN 1.5:1 3300 PSI	2
3	77041866	TRANSDUCER-HYD 5000 PSI 4-20 mA DT04-3P	1
4	72533477	PLUG-STR SOC HD STL 4 (.44 THD)	4
5	94490605	SEAL KIT - 51729068	1
REV. INITIAL RELEASE			

NOTES:

1. SEAL KIT NOT SHOWN. (94490605)

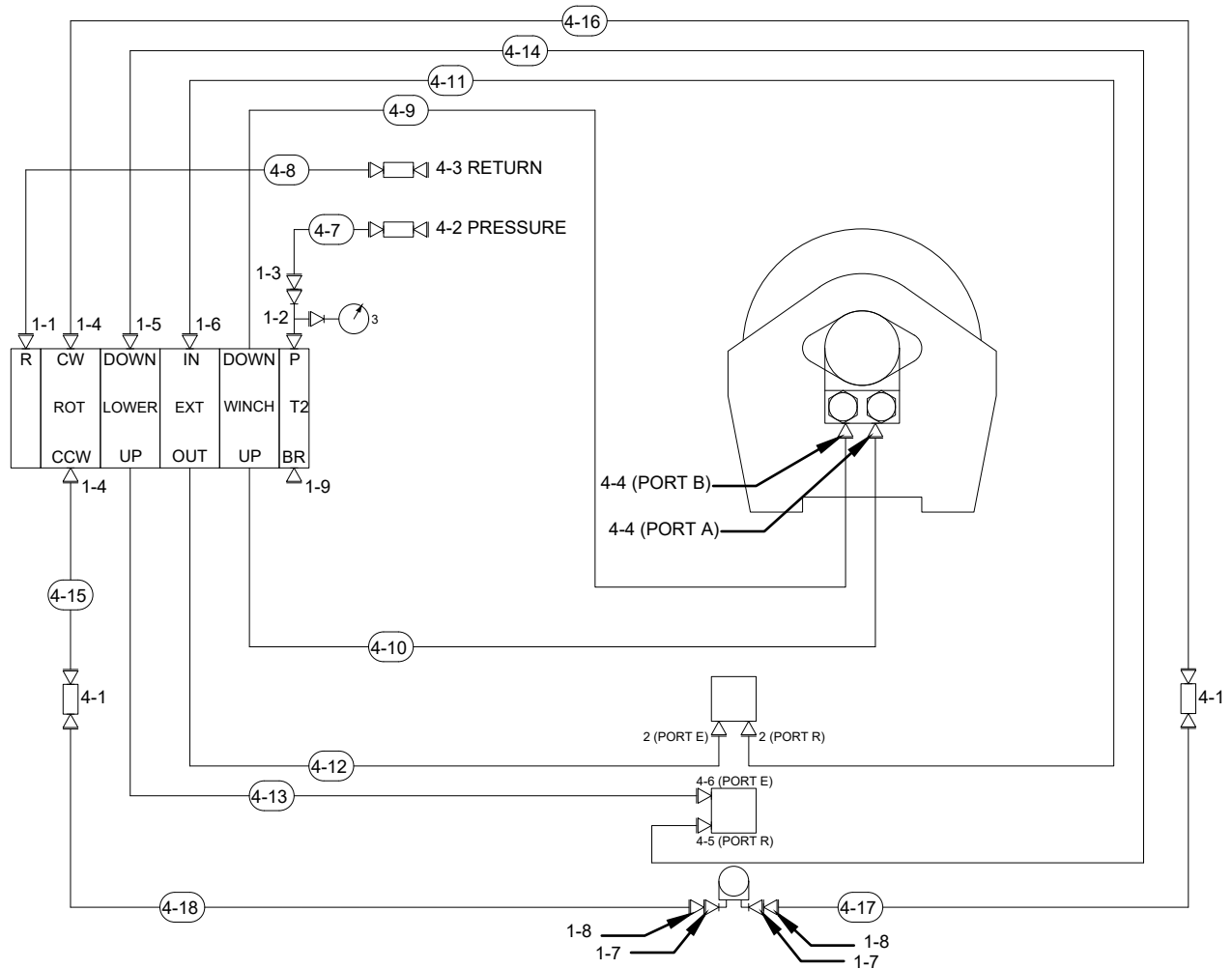
Extension Cylinder (51729062) PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	94490615	SEAL KIT - 51729062	1
2.	73540751	VALVE-CBAL SUN CBBG-LJN	1
3.	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON	2
REV. INITIAL RELEASE			

NOTES:

1. SEAL KIT NOT SHOWN. (94490615)

Hydraulic Schematic SP 3300-18 & 4300-18 (99906968)



Hydraulic Schematic SP 3300-18 & 4300-18(99906968) PARTS LIST

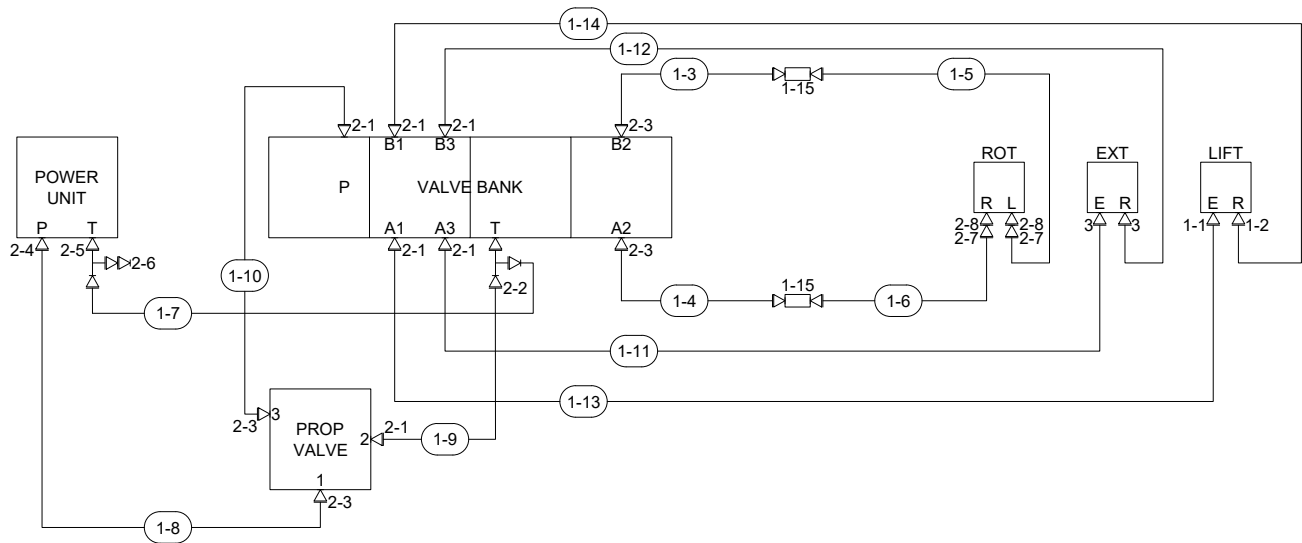
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	91728864	KIT-HYD BASE ASM 3300-4300	1
1-1	72053763	ELBOW-M STR/90/M JIC 8 8	1
1-2	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1
1-3	72535123	ELBOW-M JIC/90/F JIC SW 8 6	1
1-4	72532792	ADPTR-M STR/M JIC 8 4	2
1-5	72532670	ELBOW-M JIC/45/F JIC 8 8	1
1-6	72534401	ELBOW-M JIC/45/F JIC 6 6	1
1-7	72533589	ADPTR-M STR/M JIC 10 4	2
1-8	72532690	ELBOW-M JIC/90/F JIC SW 4 4	2
1-9	72532674	CAP-JIC STL 4 (.44 THD)	1
2	72535124	ELBOW-M STR/45/M JIC 4 6	2
3	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1
4	91728921	KIT-HYD CRANE ASM 3300E-4300E	1
4-1	72534416	SWIVEL-M JIC/90/M JIC 4 4	2
4-2	72534527	SWIVEL-M JIC/90/M JIC 6 6	1
4-3	72533648	SWIVEL-M JIC/90/M JIC 8 8	1
4-4	72532359	ADPTR-M STR/M JIC 10 8	2
4-5	72053762	ELBOW-M STR/90/M JIC 6 8	1
4-6	72532355	ADPTR-M STR/M JIC 6 6	1
4-7	51490552	HOSE-FJ .38 X 30.00 (6-6) 100R16	1
4-8	51397009	HOSE-FJ .50 X 29.00 (8-8) 100R17	1
4-9	51396572	HOSE-FJ .50 X 29.50 (8-8) 100R17	1
4-10	51396574	HOSE-FZ .50 X 29.50 (8-8) 100R17	1
4-11	51490554	HOSE-FZ .38 X 28.5 (6-6) 100R17	1
4-12	51490555	HOSE-FJ .38 X 28.5 (6-6) 100R17	1
4-13	51399462	HOSE-FJ .38 X 31.00 (6-6) 100R17	1
4-14	51490551	HOSE-FZ .38 X 32.5 (6-6) 100R17	1
4-15	51490553	HOSE-FJ .38 X 22.50 (6-6) 100R17	1
4-16	51396886	HOSE-FZ .38 X 25.00 (6-6) 100R17	1
4-17	51395424	HOSE-FF .25 X 17.50 (4-4) 100R17	1
4-18	51490524	HOSE-FF .25 X 21.50 (4-4) 100R17	1
4-19	60350173	SLEEVE-HOSE NHS-159 X 20 CUT & SEALED	7
REV. INITIAL RELEASE			

NOTES:

Hydraulic Schematic SP 3300e-18 & 4300e-18 (99906985)

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 3300-18e & 4300e-18 (99906985) PARTS LIST

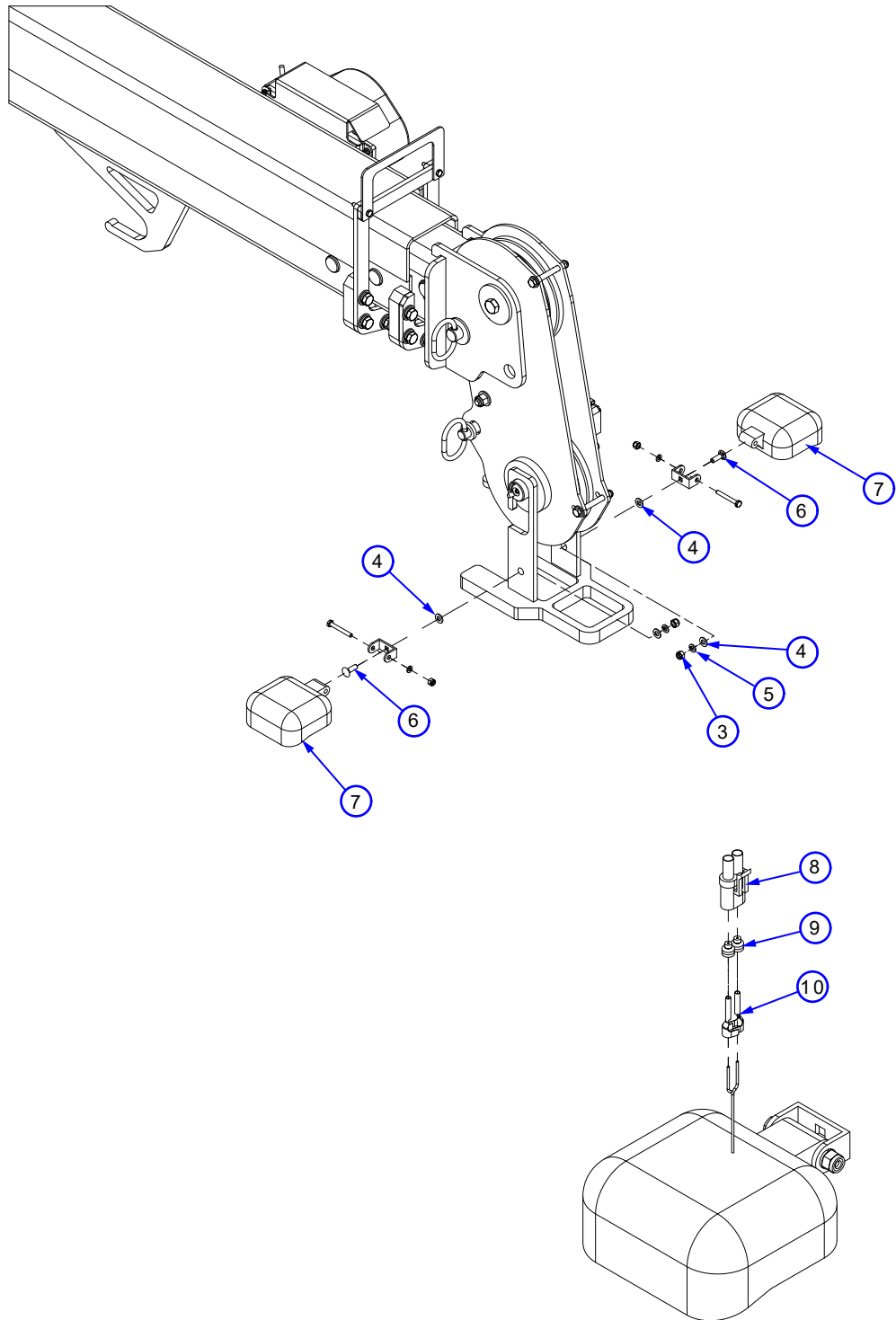
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	91728921	KIT-HYD CRANE ASM 3300E-4300E	1
1-1	72532353	ADPTR-M STR/M JIC 6 4	1
1-2	72532699	ELBOW-M STR/90/M JIC 6 4	1
1-3	51490578	HOSE-FZ .25 X 16.50 (4-4) 100R17	1
1-4	51490579	HOSE-FZ .25 X 17.00 (4-4) 100R17	1
1-5	51490580	HOSE-FF .25 X 13.25 (4-4) 100R17	1
1-6	51490581	HOSE-FF .25 X 16.25 (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	51490584	HOSE-FJ .25 X 14.75 (4-4) 100R17	1
1-10	51490585	HOSE-FJ .25 X 10.25 (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	51395872	HOSE-FF .25 X 21.00 (4-4) 100R17	1
1-14	51490586	HOSE-FF .25 X 22.75 (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	91728811	KIT-HYD BASE ASM 3300E-4300E	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	72532690	ELBOW-M JIC/90/F JIC SW 4 4	2
2-8	72533589	ADPTR-M STR/M JIC 10 4	2
3	72533020	ELBOW-M STR/45/M JIC 4 4	2
REV. INITIAL RELEASE			

NOTES:

Section - 6

Electrical & Lighting

Boom Tip Floodlight Kit (99906730)



WIRING DETAIL

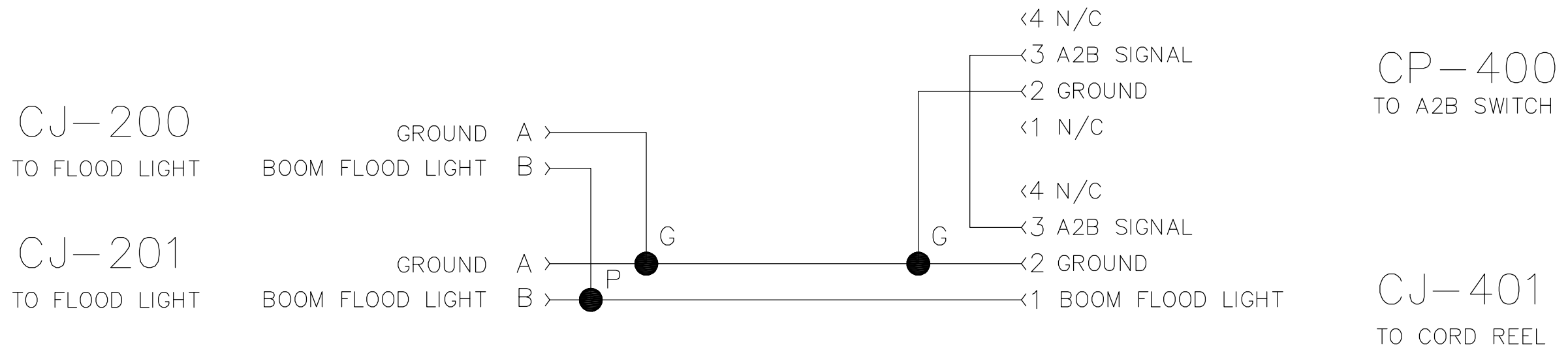
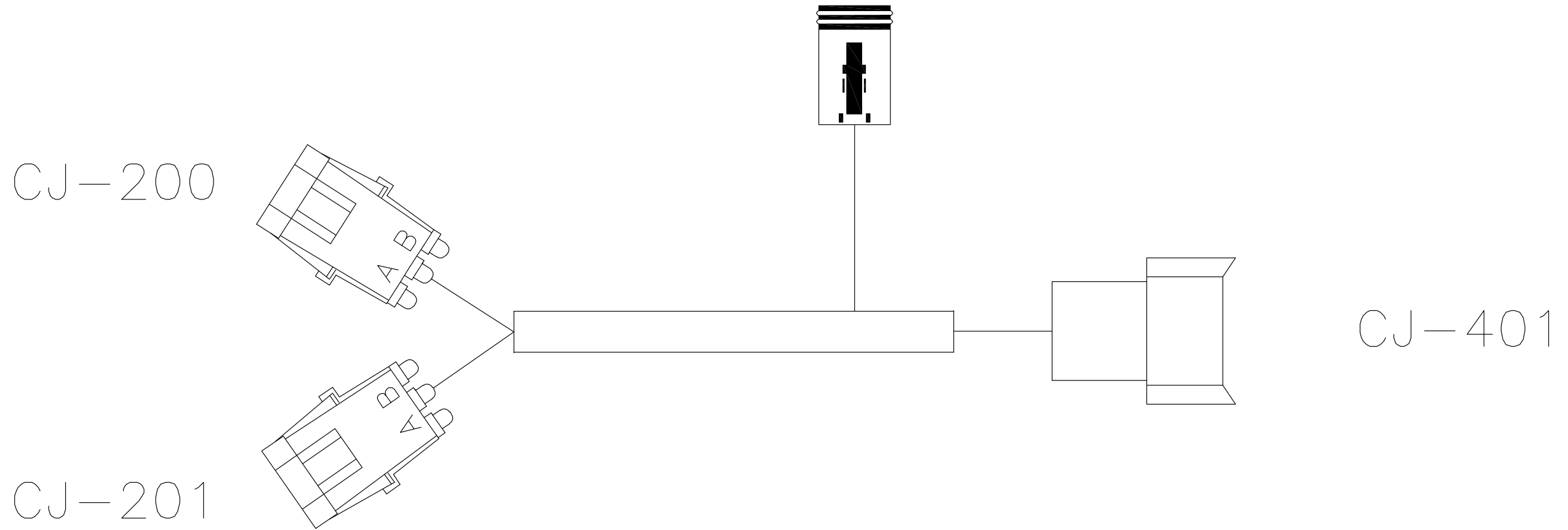
Boom Tip Floodlight Kit (99906730) PARTS LIST

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	-	-

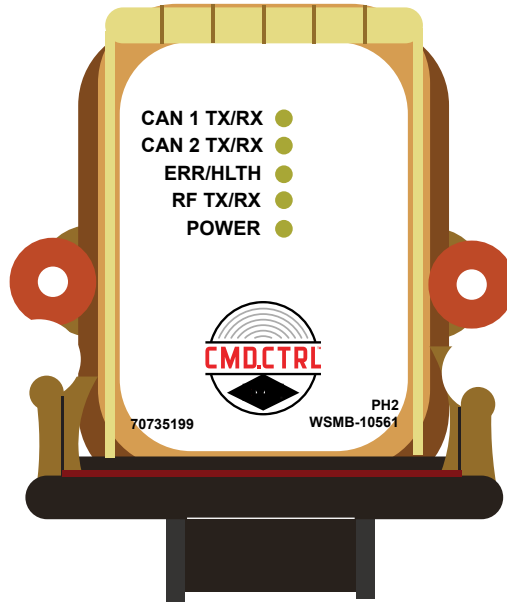
LOCATOR CODE: -				SPLICE G		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	YEL/GRN	16	GROUND	TO	CJ-200	A
-	YEL/GRN	16	GROUND	TO	CJ-400	A
-	YEL/GRN	16	GROUND	TO	CP-400	2
-	YEL/GRN	16	GROUND	TO	CJ-401	2

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

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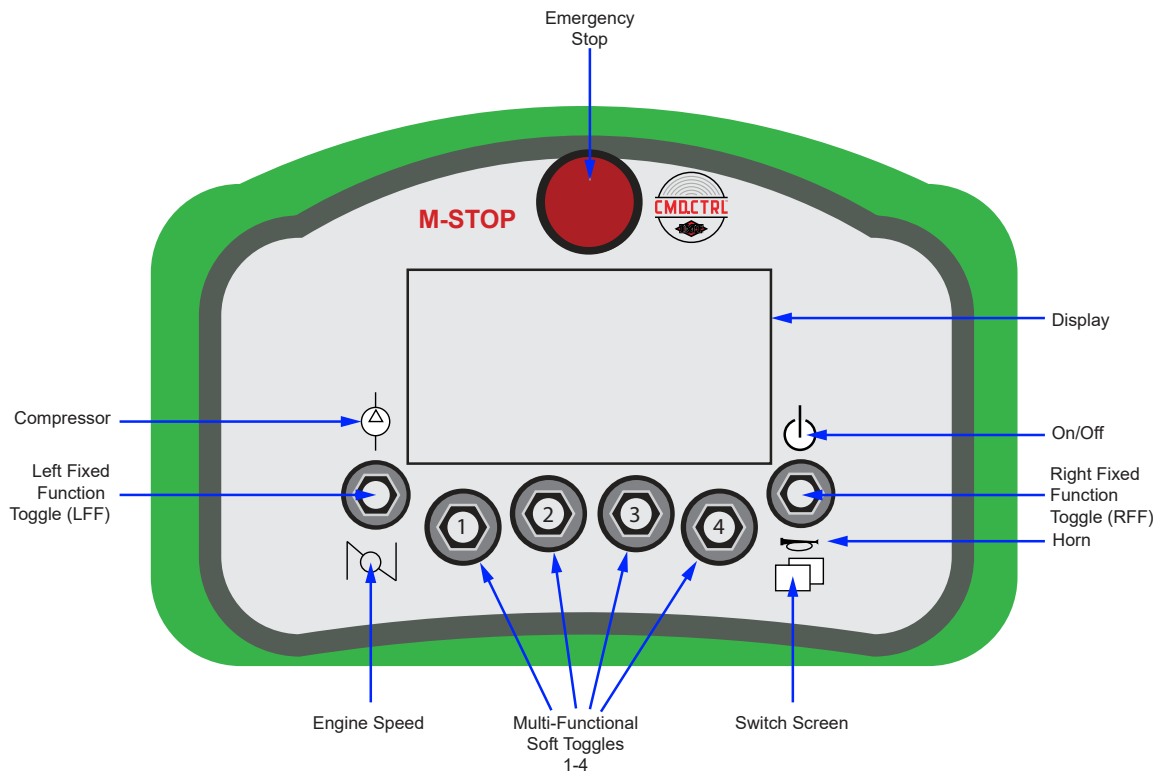
Section - 7 **CMD.CTRL**

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

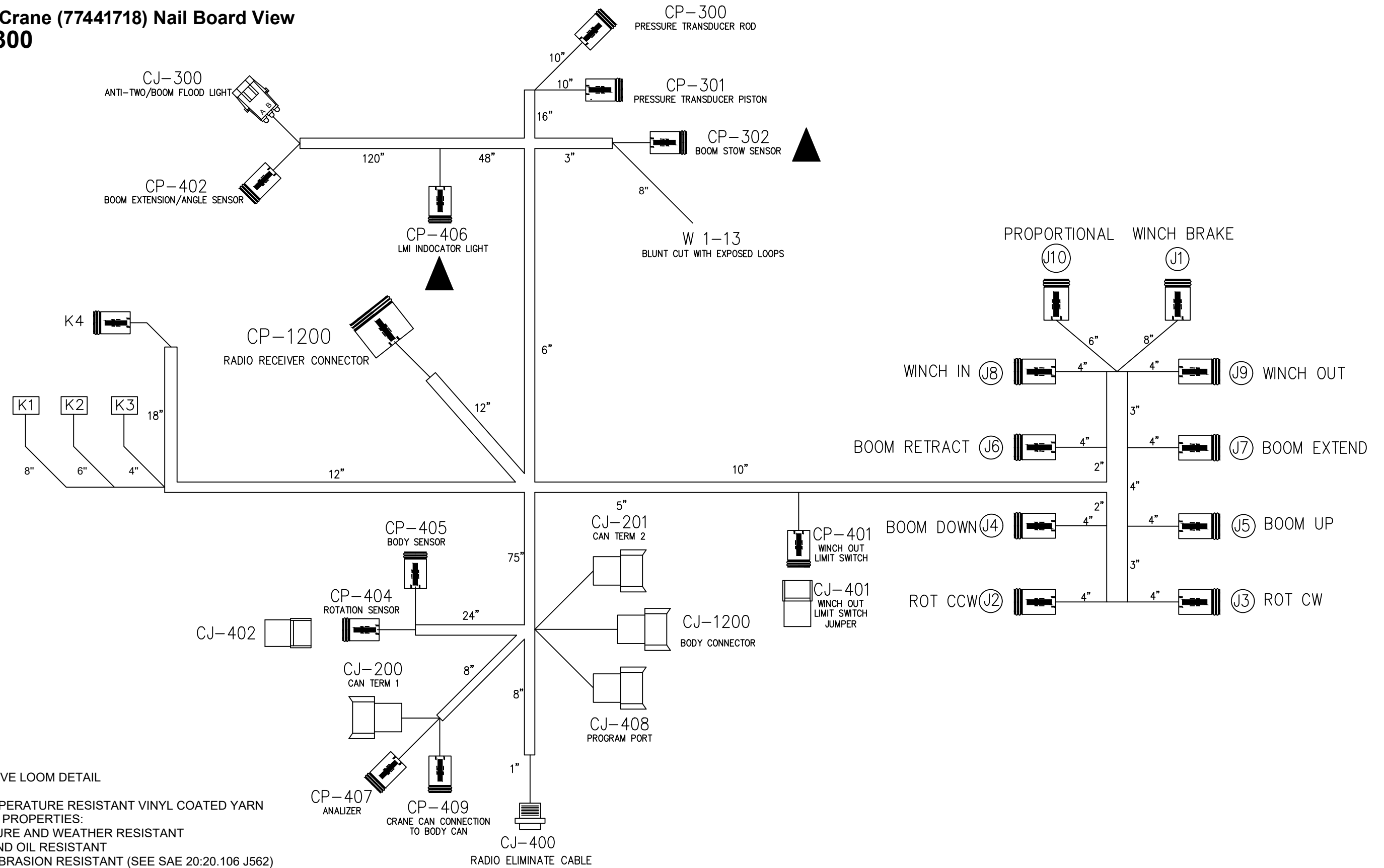
Handheld Remote, Toggles & Icons (70735198)



TOGGLE NAME	DESCRIPTION	TOGGLE STYLE
Right Fixed Function (RFF) UP	<ul style="list-style-type: none"> • TX ON / OFF • Association 	Three-Position Momentary
Right Fixed Function (RFF) DOWN	<ul style="list-style-type: none"> • Horn • Menu 	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"> • Compressor 	Three-Position Momentary
Left Fixed Function (LFF) DOWN	<ul style="list-style-type: none"> • RPM HI / LO 	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 3300 & 4300



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

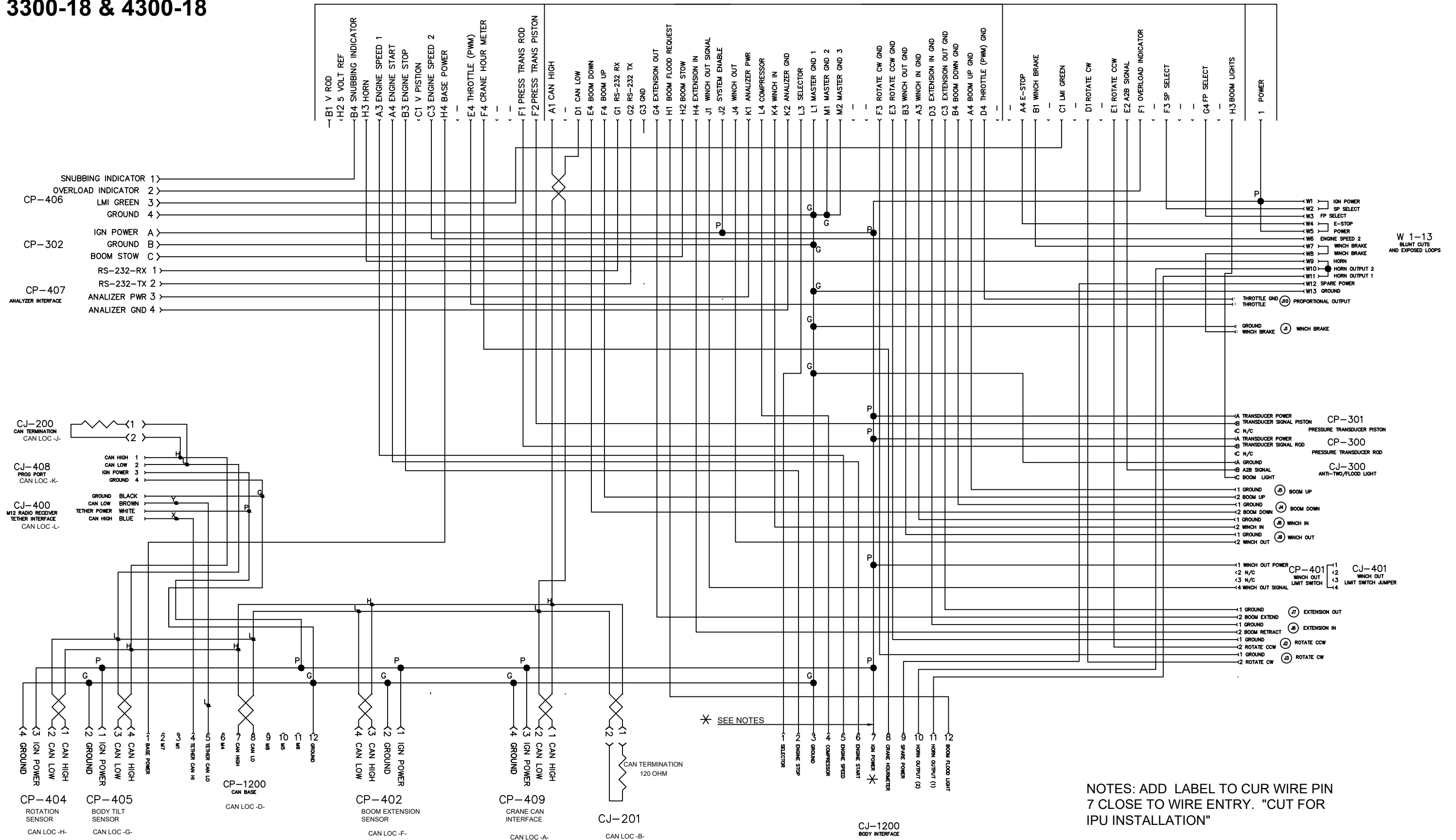
Harness SP Crane (77441718) Schematic View 3300-18 & 4300-18

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 3300-18 & 4300-18

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	SPL 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 3300-18 & 4300-18

LOCATOR CODE: CP-1200		DEUTSCH: DTM06-12SA				
TERM: 0462-005-20141		WEDGE: WM12S		CAVITY PLUG: 0413-204-2005		
TERM: 0462-005-2031						
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	ANALIZER PWR	TO	K2	K1
4	BLK	20	ANALIZER 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: 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: 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: 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: 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 (77441776) Circuit Chart View

3300-18 & 4300-18

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	-

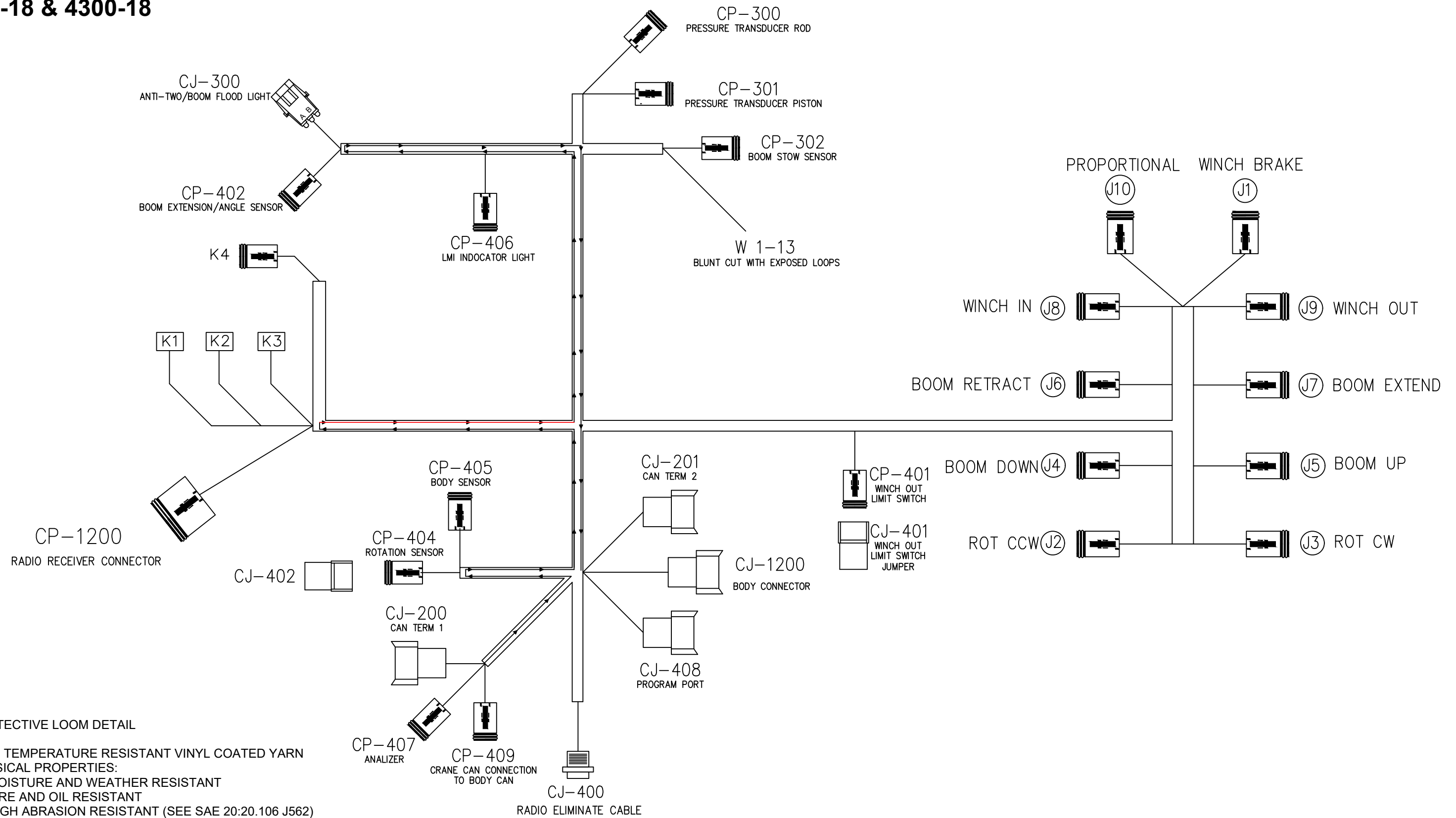
LOCATOR CODE: -			SPLICE X			
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	YELLOW	20	TETHER CAN HI	TO	CP-1200	4
-	BLUE	22	TETHER CAN HI	TO	CJ-400	A

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 3300-18 & 4300-18



PROTECTIVE LOOM DETAIL

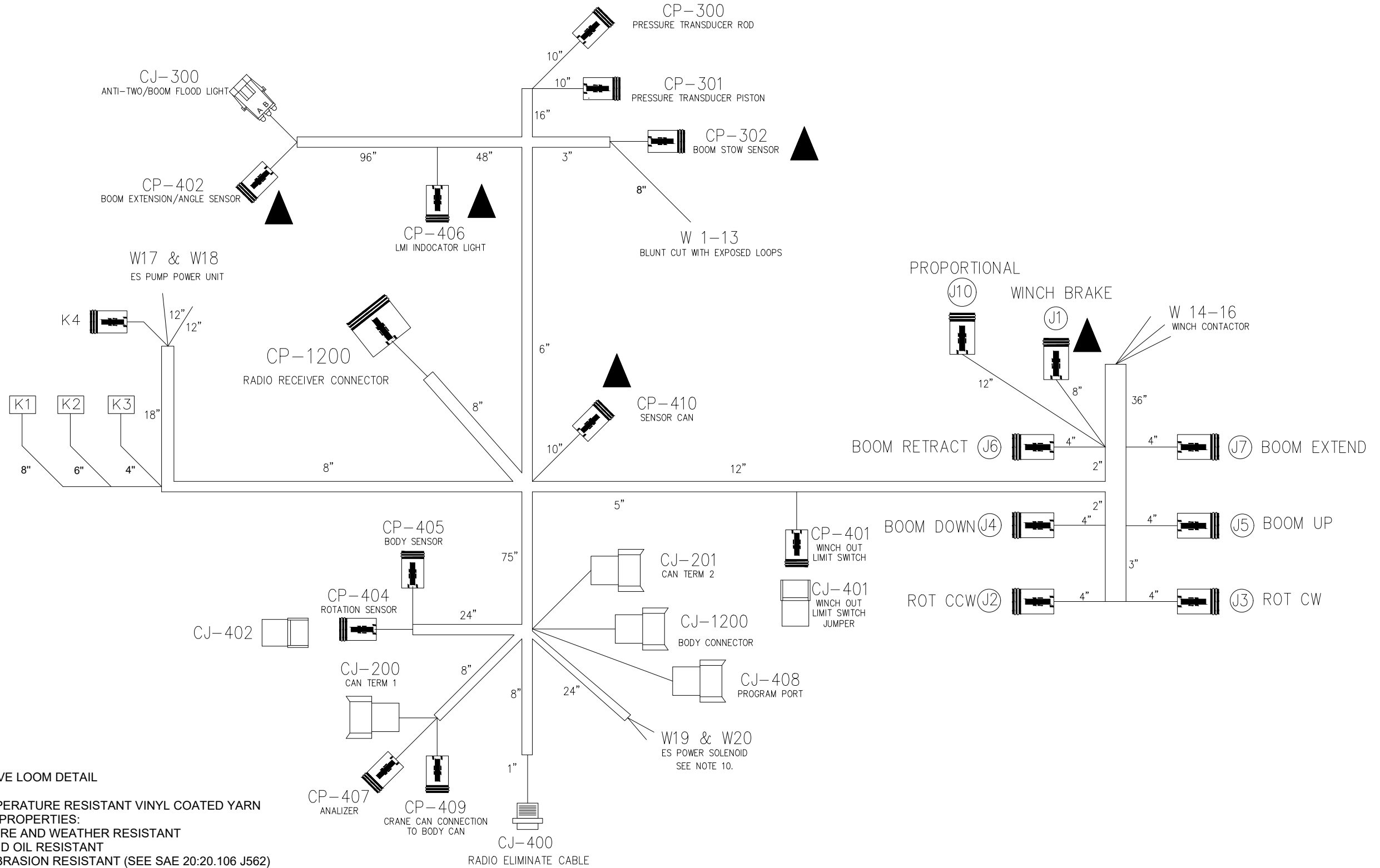
HIGH TEMPERATURE RESISTANT VINYL COATED YARN
PHYSICAL PROPERTIES:

- 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
3300e-18 & 4300e-18**



PROTECTIVE LOOM DETAIL

HIGH TEMPERATURE RESISTANT VINYL COATED YARN

PHYSICAL PROPERTIES:

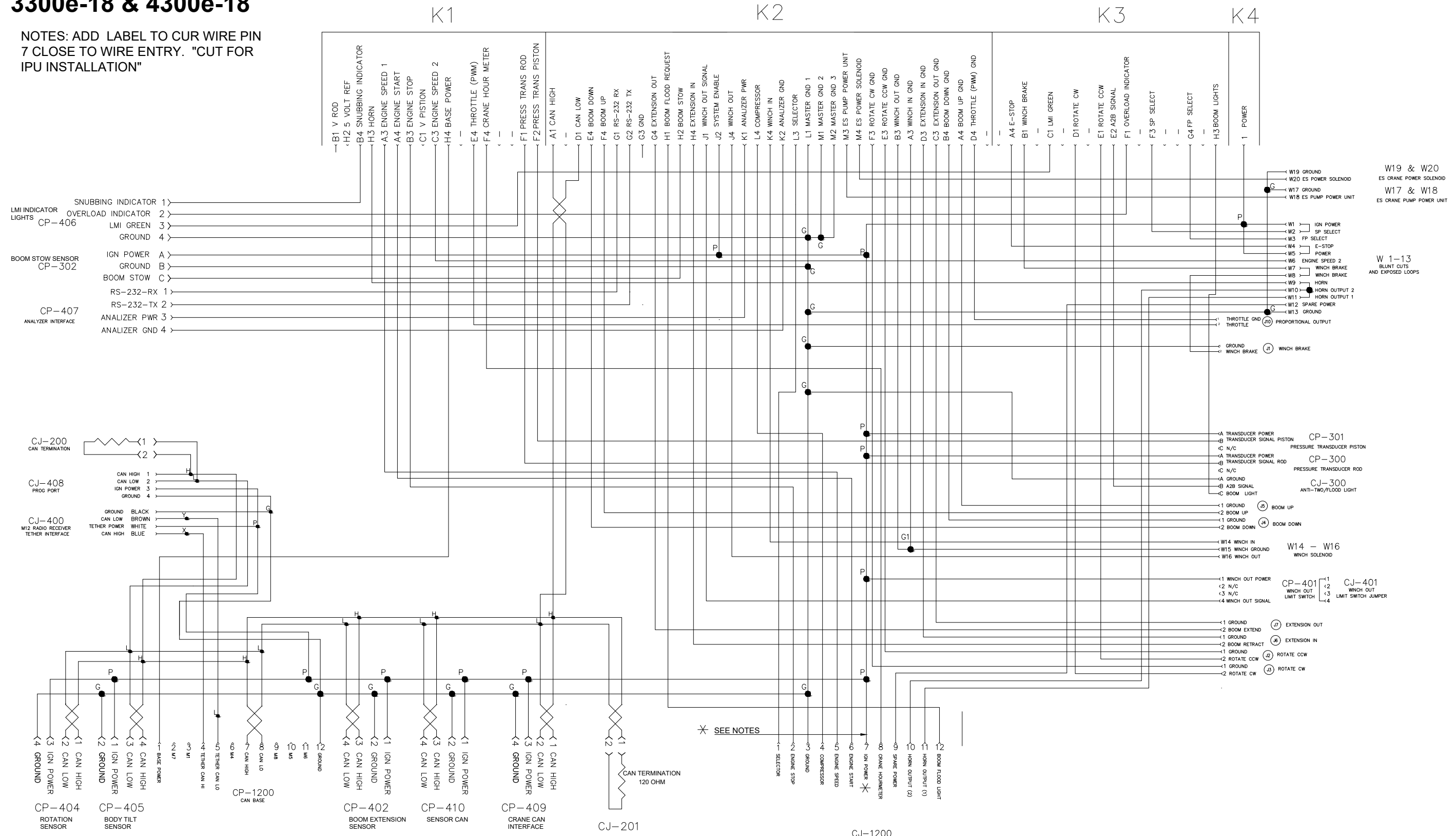
- MOISTURE AND WEATHER RESISTANT
- FIRE AND OIL RESISTANT
- HIGH ABRASION RESISTANT (SEE SAE 20:20.106 J562)
- TEMPERATURE RESISTANT FROM +280°F TO -65°F

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 3300e-18 & 4300e-18

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



Harness SP Crane (77441782) Circuit Chart View 3300e-18 & 4300e-18

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	SPL 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 3300e-18 & 4300e-18

LOCATOR CODE: CP-1200		DEUTSCH: DTM06-12SA				
TERM: 0462-005-20141		WEDGE: WM12S		CAVITY PLUG: 0413-204-2005		
TERM: 0462-005-2031						
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	ANALIZER PWR	TO	K2	K1
4	BLK	20	ANALIZER 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 3300e-18 & 4300e-18

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.

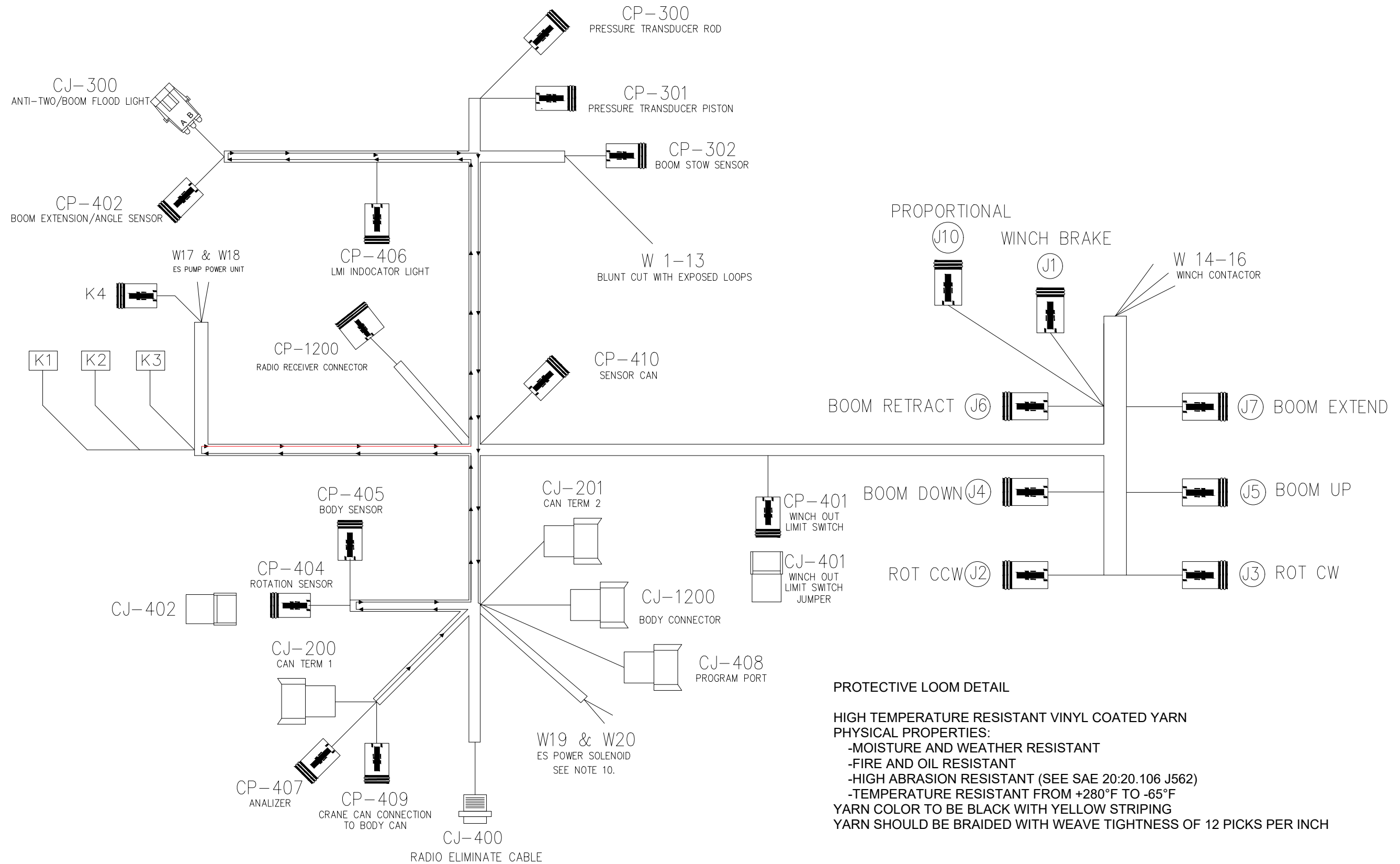
7. ALL "CAN" CIRCUITS TO USE GOLD PLATED CONTACTS.

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 3300e & 4300e

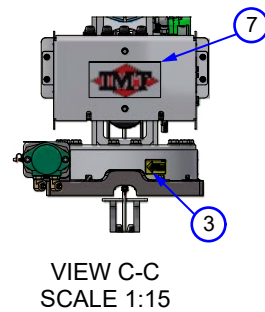
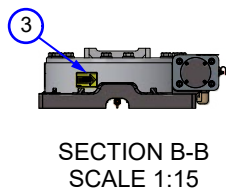
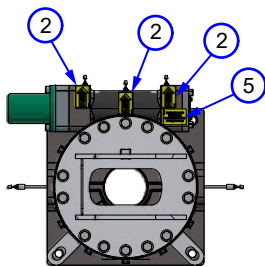
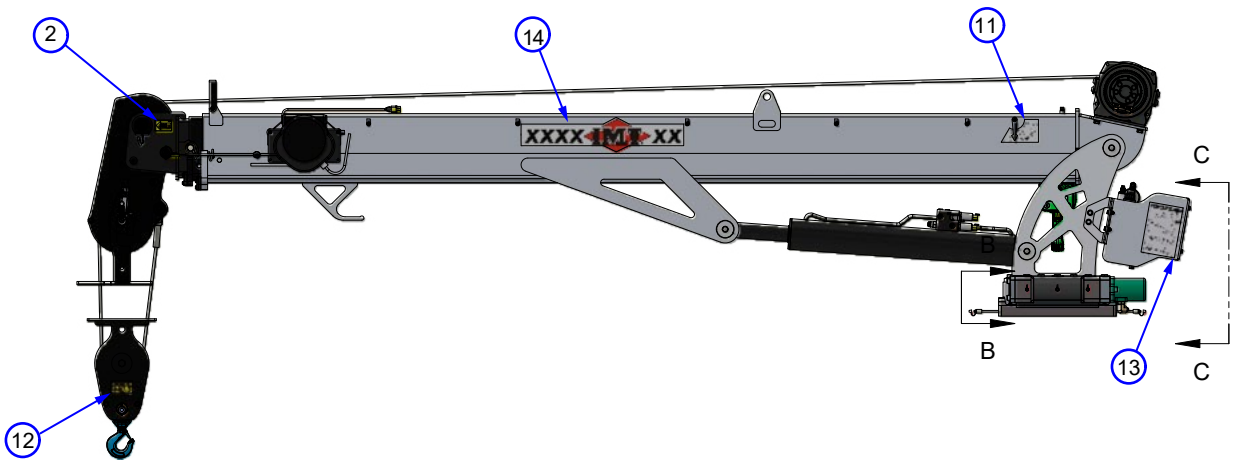
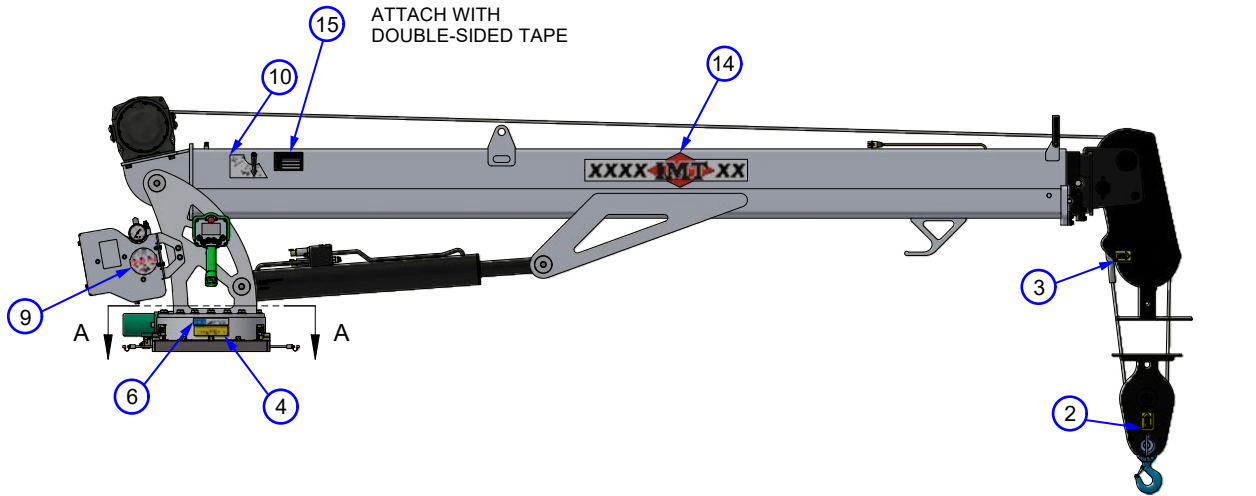


Section - 8

General Information

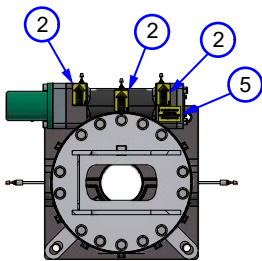
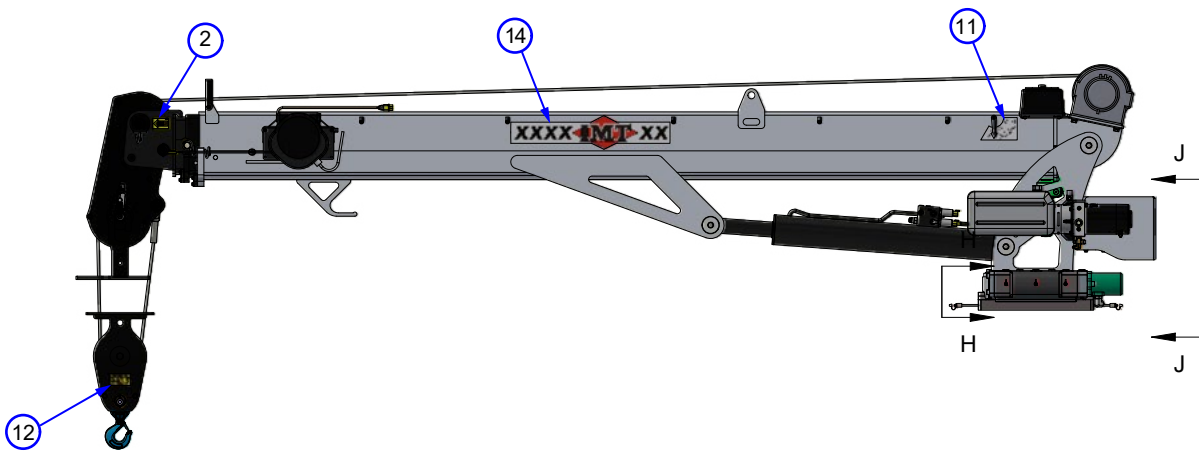
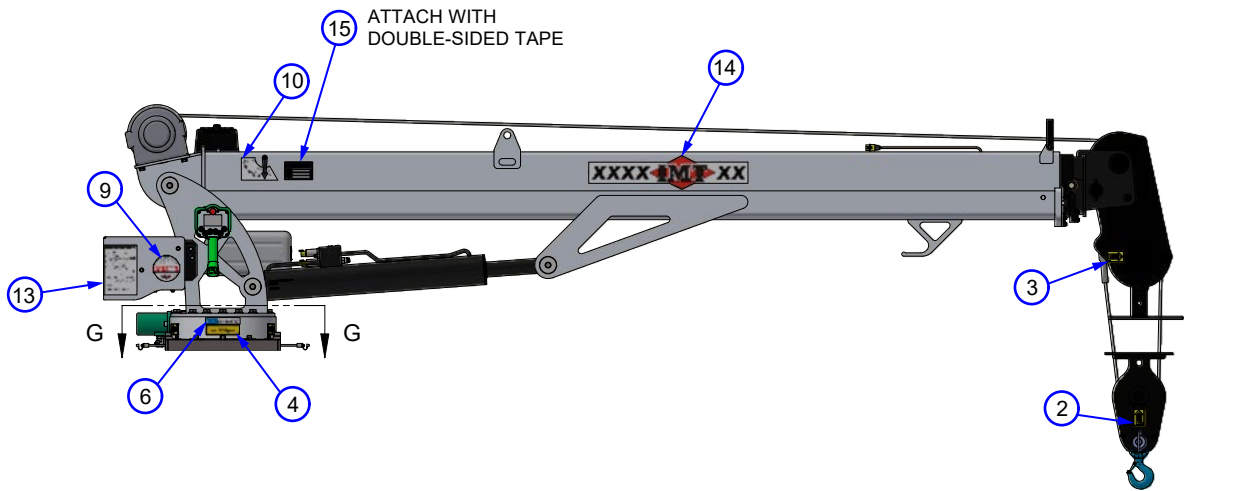
Decal Placement (99906971) 3300-18 & 4300-18

HYDRAULIC

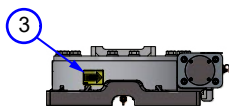


Decal Placement (99906971) 3300e 18 & 4300e 18

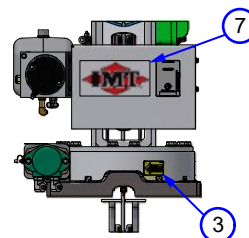
ELECTRIC



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-TELESCOP	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.	70490575	DECAL-LOAD BLOCK RATING 2.2 TONS 3300-4300	1	
13.	70490535	DECAL-CAP CHART 3300 18	2	
	70490532	DECAL-CAP CHART 3300e 18		
	70490536	DECAL-CAP CHART 4300 18		
	70490537	DECAL-CAP CHART 4300e 18		
14.	70490558	DECAL-ID-3300 18	2	
	70490559	DECAL-ID-3300e 18		
	70490560	DECAL-ID-4300 18		
	70490561	DECAL-ID-4300e 18		
15.	70029119	PLACARD-SERIAL NUMBER	1	
REV. INITIAL RELEASE				

NOTE:

1.

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	
		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

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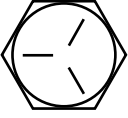

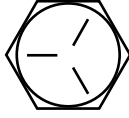

NOTES:

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

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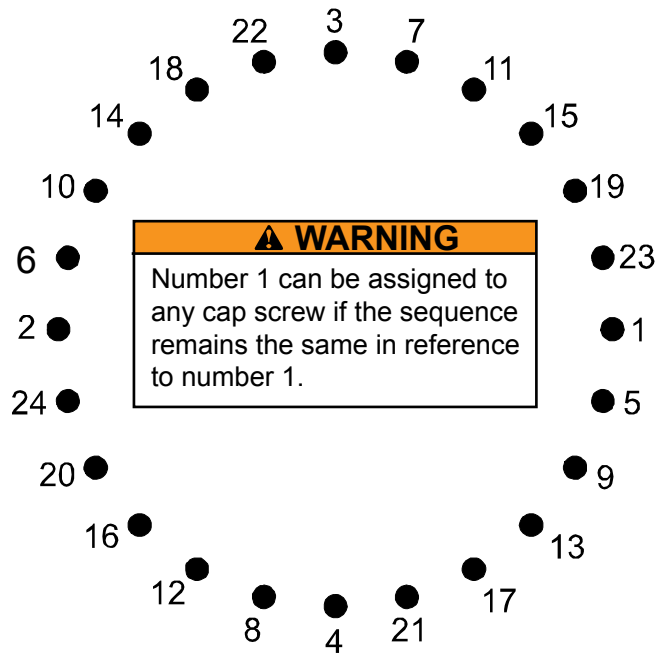
NOTES:

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.

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 CAPSCREWS 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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IOWA MOLD TOOLING CO., INC.

P.O. Box 189 Garner, IA 50438

Tel: 641.923.3711

www.imt.com



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