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**Manual # 91729051 REV A**

# **Series 5**

## **10600-27, 12600-27, 10600-32 and 12600-32**

### **Crane Parts & Specifications**

**03-05-2026**

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## WARNING

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

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

## Equipment Safety

### PERSONNEL REQUIREMENTS

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

### TRAINING

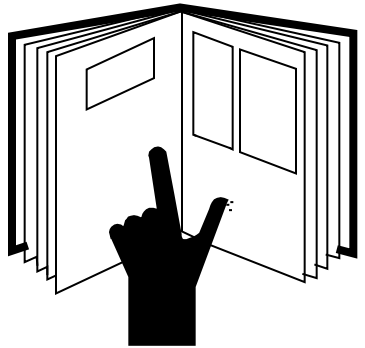
Prior to using any of the equipment installed on or incorporated in the IMT Crane Body Mechanics Truck, you must:

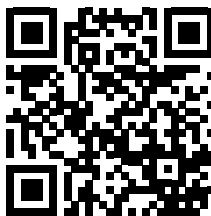
- Have already been fully trained to operate the vehicle and equipment.
- Have demonstrated the effectiveness of your training and the extent of your knowledge.

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

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

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

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



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

## INTRODUCTION

This volume includes specifications, installation information, and spare parts drawings applicable to your particular crane. For operating, maintenance and repair instructions, see *S5 Telescopic Crane Operator's Manual*, part number 91729072.

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

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

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

### WARNING

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

### CAUTION

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

### NOTE

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

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

---

## Personal Fall/Tie-Off Protection

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

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

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

These OSHA regulations can be found at:

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



OSHA website

**Section - 2** **Specifications**

**General Specifications 10600-27 - 10600-32**

<b>GENERAL SPECIFICATIONS</b>		
	<b>10600-27'</b>	<b>10600-32'</b>
<b>CRANE RATING</b> (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.)	79,000 ft-lb (10.9 tm)	77,000 ft-lb (10.6 tm)
<b>HORIZONTAL REACH - FLIP SHEAVE UP</b> (From centerline of rotation.)	25'-9" (7.85 m)	30'-7" (9.35 m)
<b>HORIZONTAL REACH - FLIP SHEAVE DOWN</b> (From centerline of rotation.)	24'- 10" (7.59 m)	29'- 9" (9.08 m)
<b>FULLY RETRACTED LENGTH</b>	13'- 2" (401.3 m)	15'- .05" (458.8 m)
<b>HYDRAULIC EXTENSIONS (2)</b>	84" & 84" (213 cm & 213 cm)	102" & 102" (259 cm & 259 cm)
<b>LIFTING HEIGHT</b>	27'-5" (8.36 m)	32'-3" (9.82 m)
<b>CRANE WEIGHT</b>	2117 lb (960 kg)	2286 lb (1036 kg)
<b>CRANE STORAGE HEIGHT</b>	43.5" (110.6 cm)	
<b>MOUNTING SPACE REQUIRED</b> (Crane base.)	22" x 19" (56 cm x 48 cm)	
<b>OPTIMUM PUMP CAPACITY</b>	12 gpm (54.5 L/min)	
<b>SYSTEM OPERATING PRESSURE</b>	2275 psi (156.8 Bar)	2375 psi (163.7 Bar)
<b>CENTER OF GRAVITY</b> Horizontal from centerline of rotation.  Vertical from bottom of crane base.	37.51" (95 cm)	43.52" (110 cm)
	22.27" (56 cm)	21.92" (55 cm)
<b>TIE-DOWN BOLT PATTERN (8 bolts)</b>	Outside: 14.75" x 14.75" (37.5 cm x 37.5 cm ) Inside: 13.75" x 6.63" (34.9 cm x 16.8 cm )	

## Performance Specifications 10600-27 - 10600-32

PERFORMANCE SPECIFICATIONS		
	10600-27'	10600-32'
ROTATION LIMIT	400°	
TIME FOR FULL ROTATION	22 sec	
LOWER BOOM ELEVATION	-10° to +80°	
LOWER BOOM ELEVATION SPEED	18 sec (Raise) 20 sec (Lower)	
EXTENSION CYLINDERS SPEED	23 sec (Extend) 14 sec (Retract)	28 sec (Extend) 23 sec (Retract)
HOIST SPEED	50 ft/min	
CHASSIS SPECIFICATIONS		
CHASSIS STYLE	Conventional Cab	
BODY STYLE	Dominador II	
RBM*	1,200,000 in-lb (135,581 N-m)	
FRAME SECTION MODULUS (MINIMUM)	14.2 cubic inches ( 232.7 cc)	
GVW (MINIMUM)	26,000 lb Minimum (11,793 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.

## General Specifications 12600-27 - 12600-32

GENERAL SPECIFICATIONS		
	12600-27'	12600-32'
<b>CRANE RATING</b> (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.)	96,000 ft-lb (13.27 tm)	90,000 ft-lb (12.44 tm)
<b>HORIZONTAL REACH - FLIP SHEAVE UP</b> (From centerline of rotation.)	25'-9" (7.85 m)	30'-7" (9.35 m)
<b>HORIZONTAL REACH - FLIP SHEAVE DOWN</b> (From centerline of rotation.)	24'- 10" (7.59 m)	29'- 9" (9.08 m)
<b>FULLY RETRACTED LENGTH</b>	13'- 2" (401.3 m)	15'- .05" (458.8 m)
<b>HYDRAULIC EXTENSIONS (2)</b>	84" & 84" (213 cm & 213 cm)	102" & 102" (259 cm & 259 cm)
<b>LIFTING HEIGHT</b>	27'-5" (8.36 m)	32'-3" (9.82 m)
<b>CRANE WEIGHT</b>	2117 lb (960 kg)	2286 lb (1036 kg)
<b>CRANE STORAGE HEIGHT</b>	43.5" (110.6 cm)	
<b>MOUNTING SPACE REQUIRED</b> (Crane base.)	22" x 19" (56 cm x 48 cm)	
<b>OPTIMUM PUMP CAPACITY</b>	12 gpm (54.5 L/min)	
<b>SYSTEM OPERATING PRESSURE</b>	2800 psi (193 Bar)	2650 psi (182.7 Bar)
<b>CENTER OF GRAVITY</b> Horizontal from centerline of rotation.	37.51" (95 cm)	43.52" (110 cm)
	Vertical from bottom of crane base.	22.27" (56 cm)
<b>TIE-DOWN BOLT PATTERN (8 bolts)</b>	Outside: 14.75" x 14.75" (37.5 cm x 37.5 cm ) Inside: 13.75" x 6.63" (34.9 cm x 16.8 cm )	

## Performance Specifications 12600-27 - 12600-32

PERFORMANCE SPECIFICATIONS		
	12600-27'	12600-32'
ROTATION LIMIT	400°	
TIME FOR FULL ROTATION	22 sec	
LOWER BOOM ELEVATION	-10° to +80°	
LOWER BOOM ELEVATION SPEED	18 sec (Raise) 20 sec (Lower)	
EXTENSION CYLINDERS SPEED	23 sec (Extend) 14 sec (Retract)	28 sec (Extend) 23 sec (Retract)
HOIST SPEED	50 ft/min	
CHASSIS SPECIFICATIONS		
CHASSIS STYLE	Conventional Cab	
BODY STYLE	Dominator III	
RBM*	1,200,000 in-lb (135,581 N-m)	
FRAME SECTION MODULUS (MINIMUM)	14.8 cubic inches ( 242.5 cc)	
GVW (MINIMUM)	26,000 lb Minimum (11,793 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**

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

**CYLINDER HOLDING VALVES**

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

**ROTATION SYSTEM**

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

**HYDRAULIC SYSTEM (PTO DRIVEN)**

The hydraulic system is an open-centered, full-pressure system that requires 12 gpm (*45.4 L/min.*) optimum oil flow at 10600-27: 2275 psi (*156.8 Bar*), 10600-32: 2375 psi (*163.7 Bar*), 12600-27: 2800 psi (*193.1 Bar*), and 12600-32: 2650 psi (*182.7 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 crane hydraulic system shall be supplied by a system containing a separate hydraulic oil reservoir, return-line filter, and shut-off 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 hoist-up, extension-out, and boom-down functions are stopped. To relieve the situation, raise the boom, retract the extensions, or lower the hoist.

**HOIST**

The 7,000 lb (3175 kg) planetary hoist is powered using a high-torque hydraulic motor. The lifting capacity of the hoist is 6400 lb (2902 kg) one-part line. Maximum two-part line capacity is based on the maximum crane capacity. The hoist is equipped with 100 ft or 120 ft of 7/16" 6 x 25 FW IWRC XXIPS wire rope. A compact, anti-two block device is included to prevent the lower block or hook assembly from coming in contact with the boom sheave assembly. The hoist meets ANSI B30.5 standards.

**NOTES:**

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.

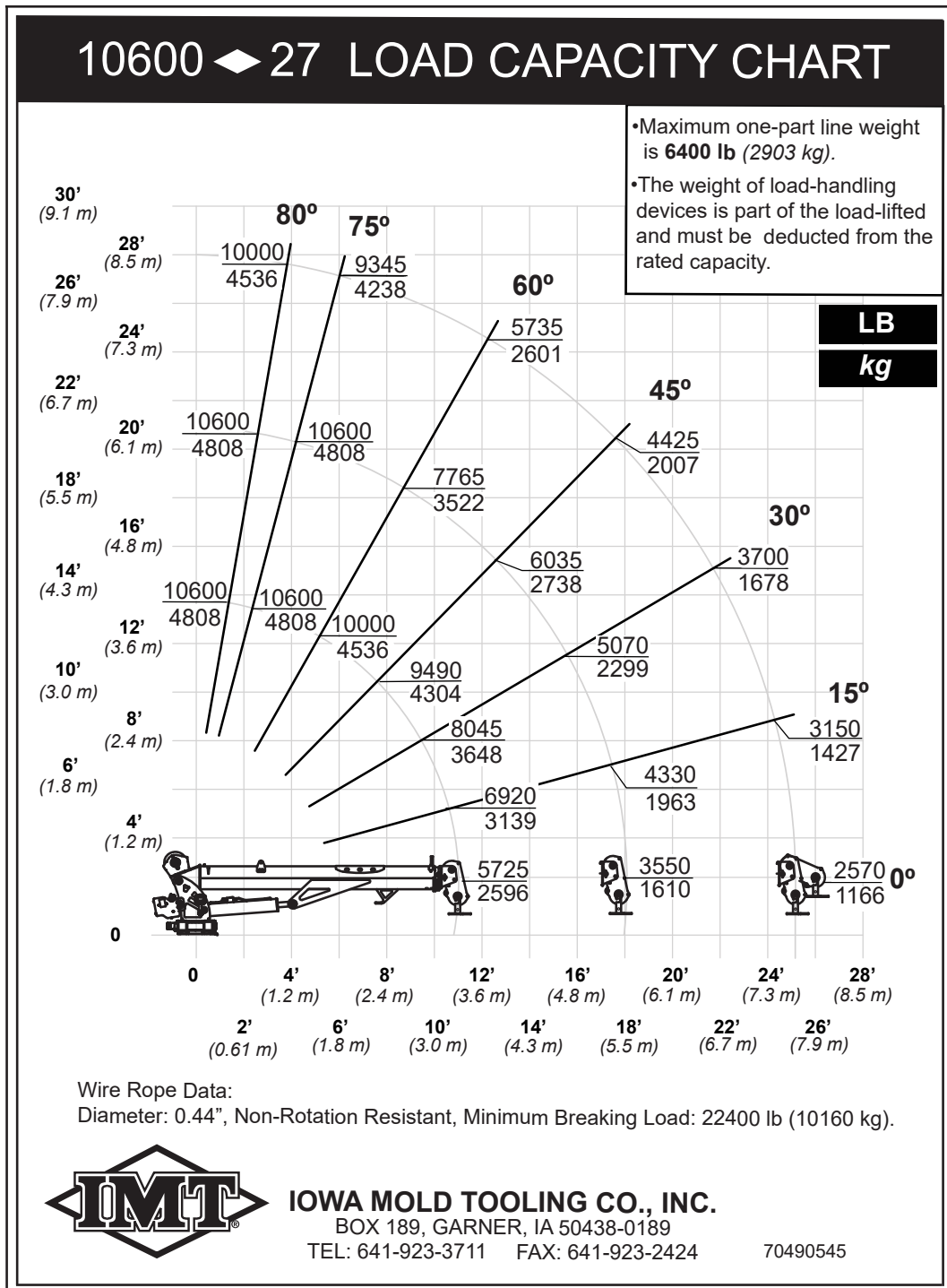
**\*ALL PUBLISHED SPEEDS WERE MEASURED USING THE SPECIFIED FLOW RATES.**

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

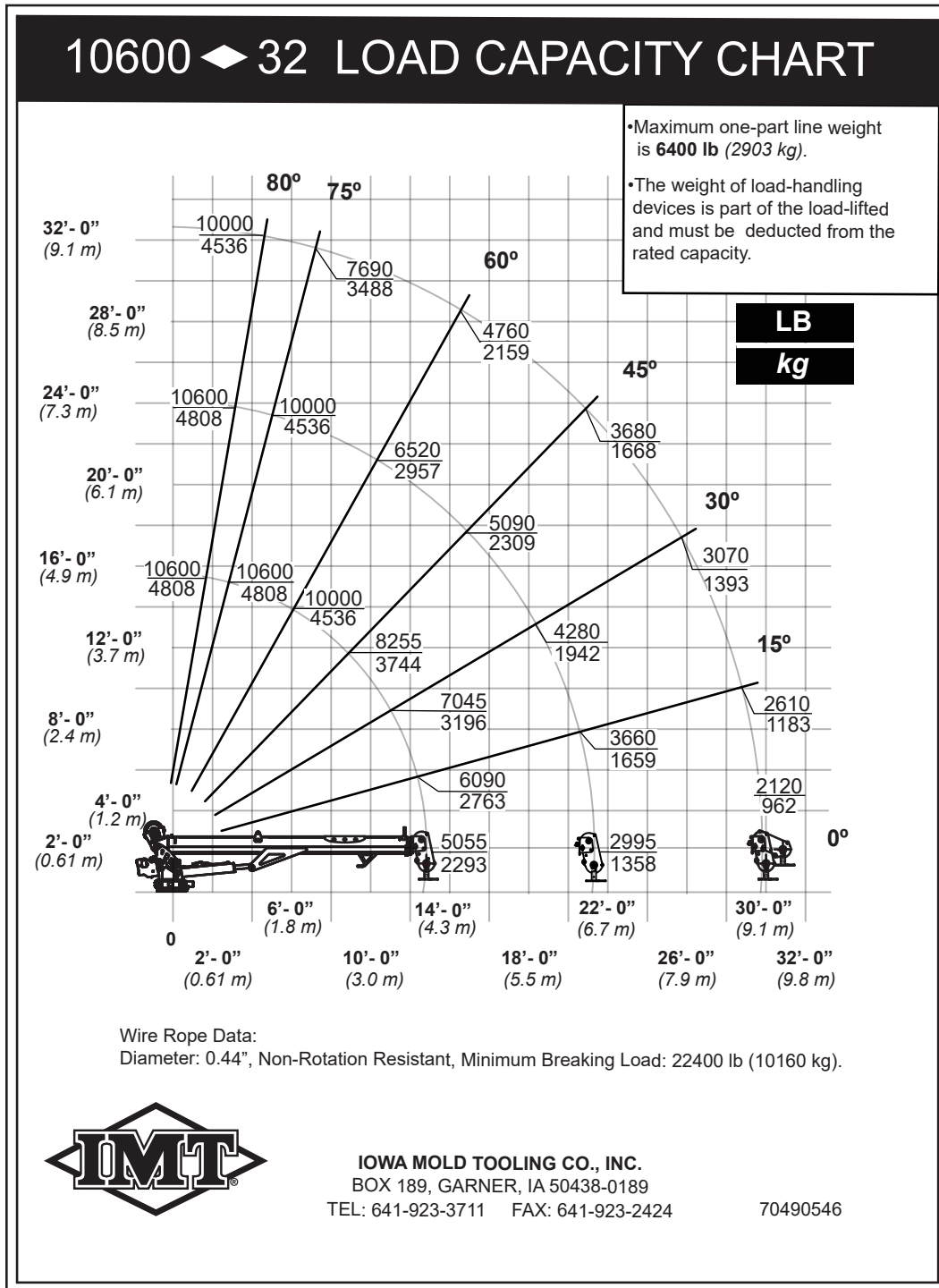
**Section - 3**

**Load Capacity Chart**

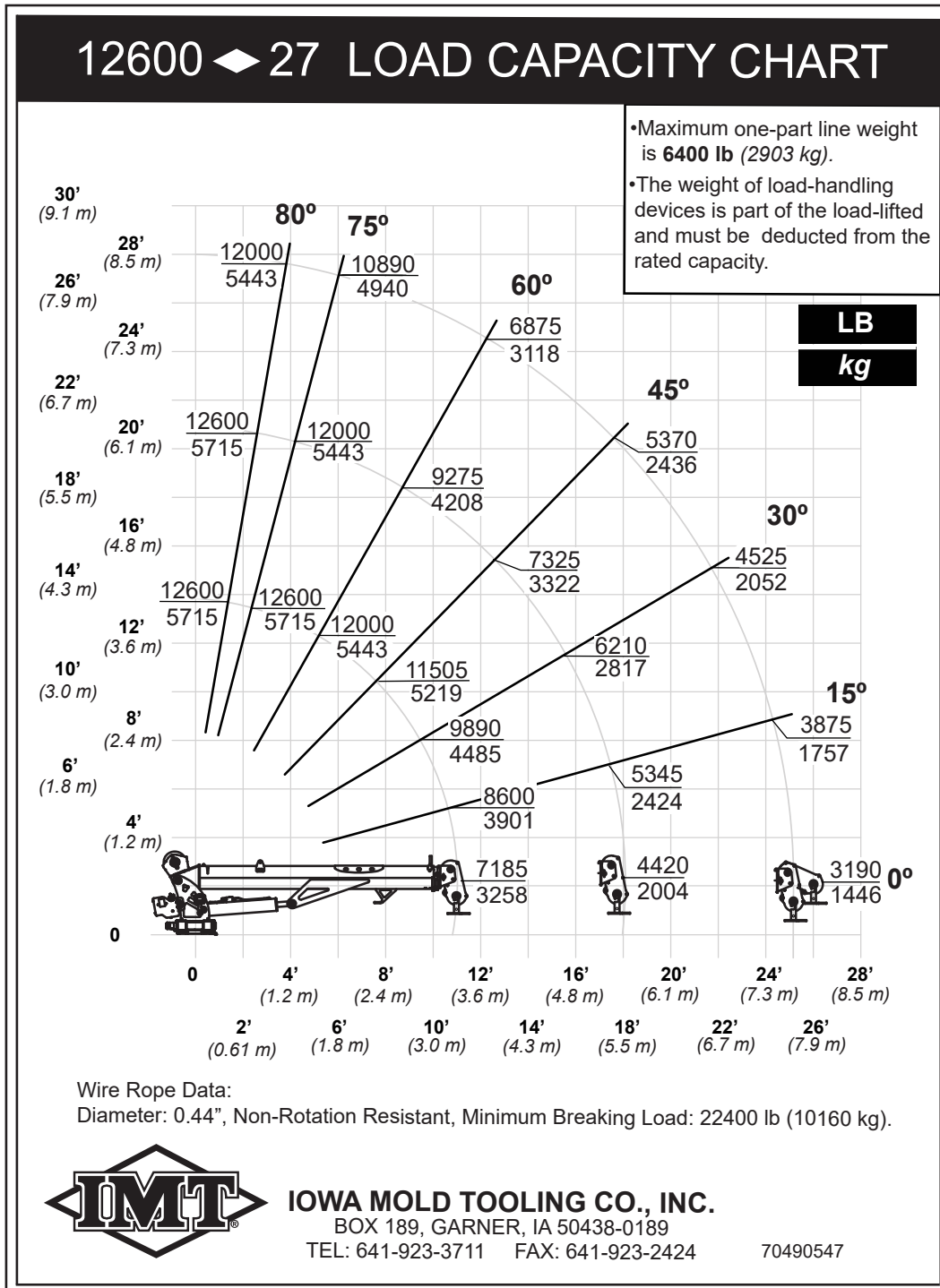
# Capacity Load Chart 10600-27 (70490545)



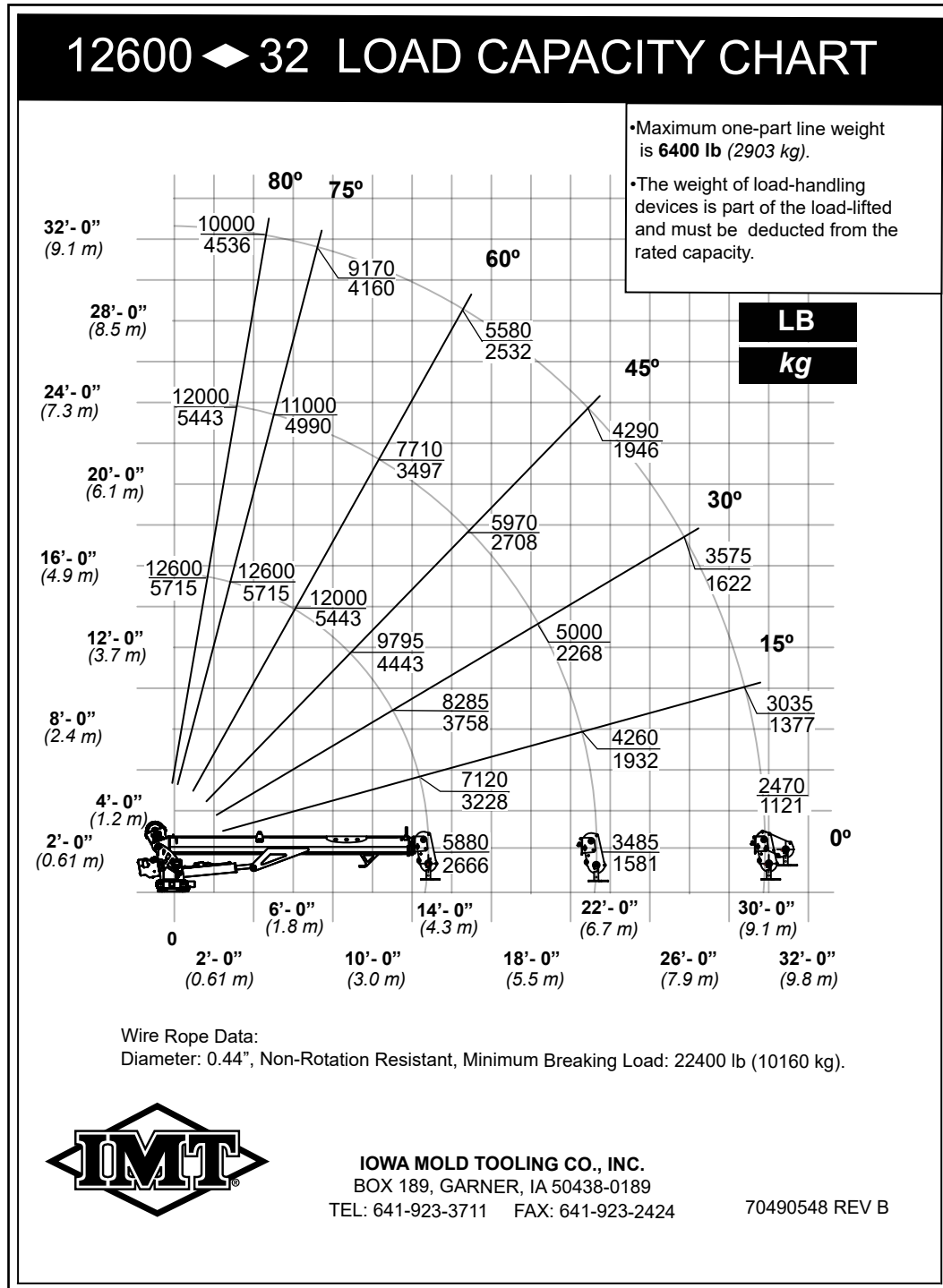
# Capacity Load Chart 10600-32 (70490546)



# Capacity Load Chart 12600-27 (70490547)



# Capacity Load Chart 12600-32 (70490548)



**Section - 4**

**Crane Installation**

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## **Installation Introduction**

### **GENERAL**

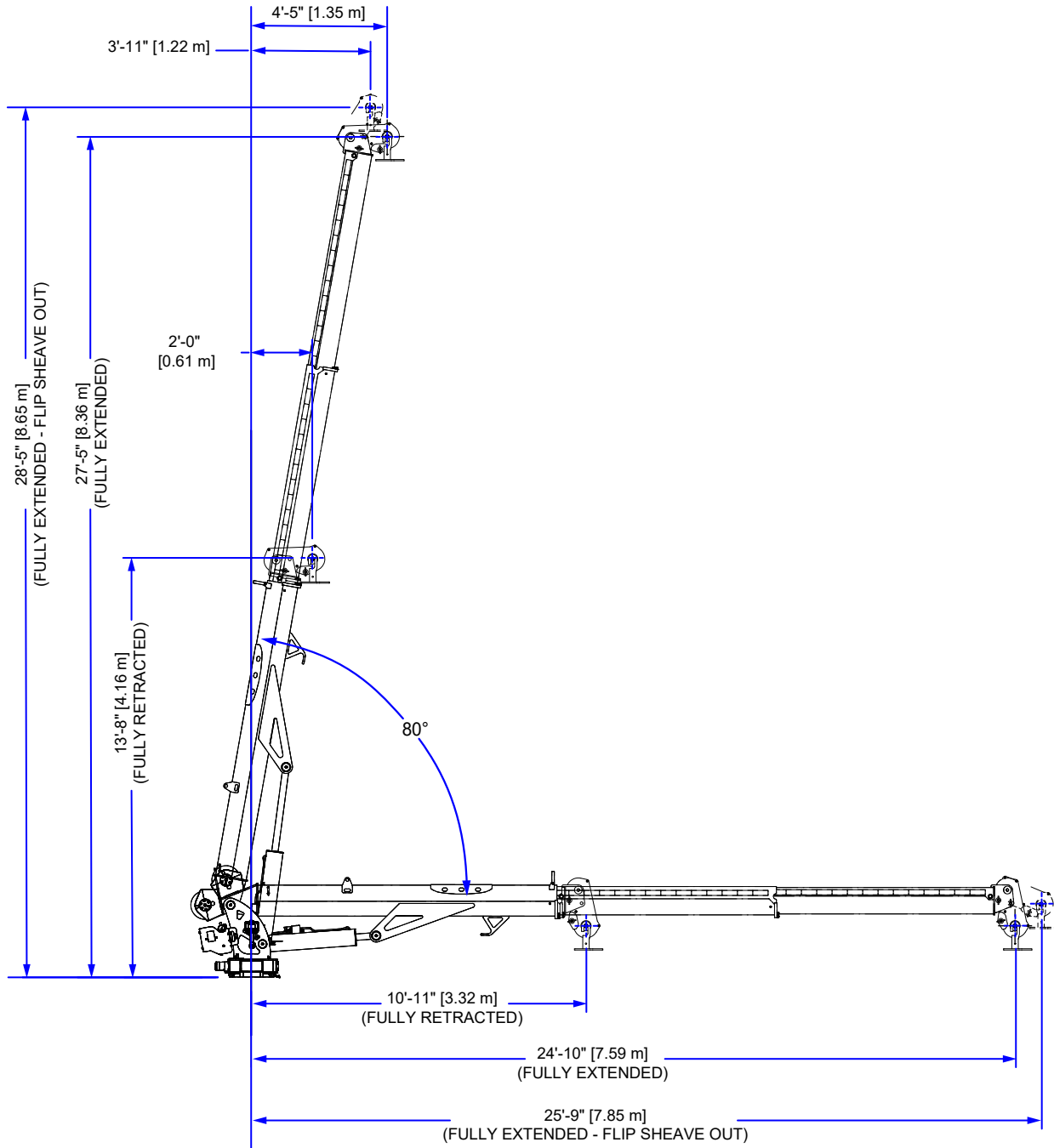
This section contains instructions for the installation of your crane. Prior to installing the crane and hydraulic components, make sure that the chassis is ready to receive the crane. Reinforce the chassis frame, as necessary, and install the PTO and pump.

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

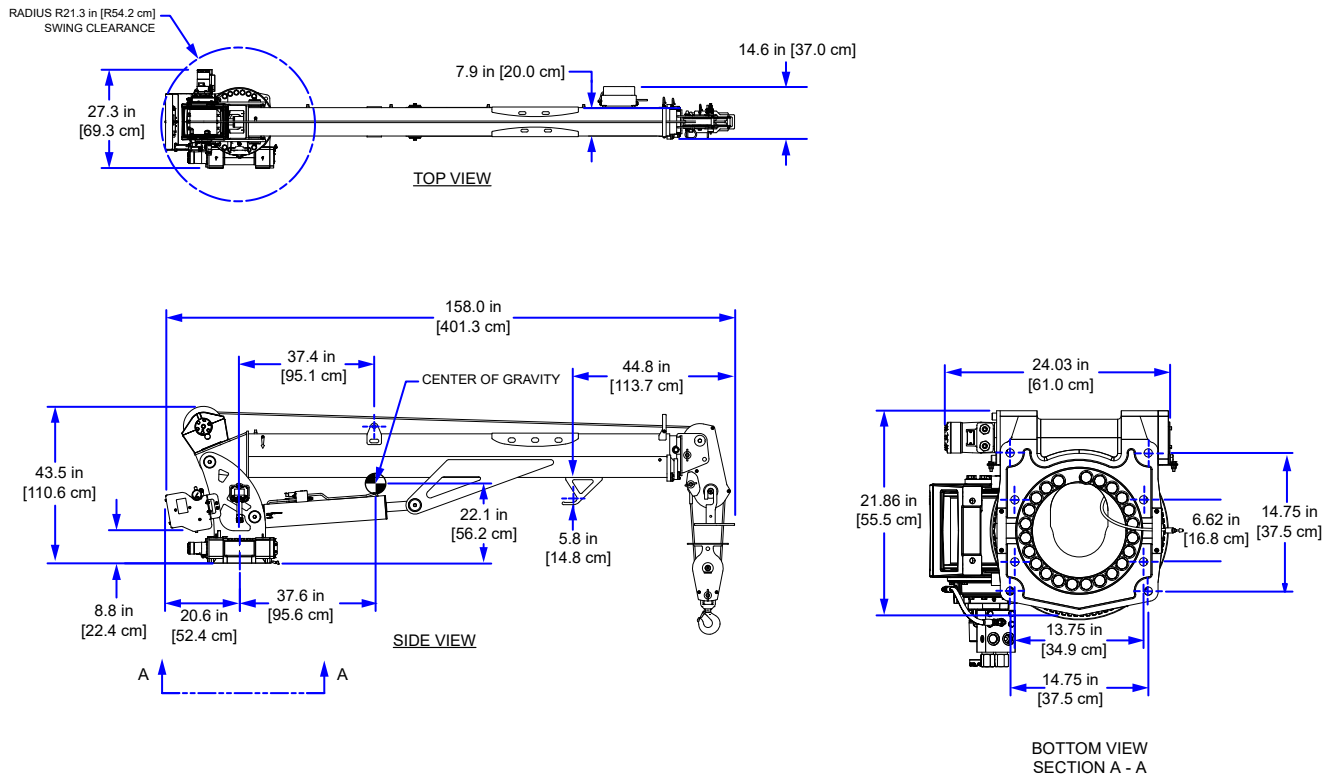
### **CRANE INSTALLATION**

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

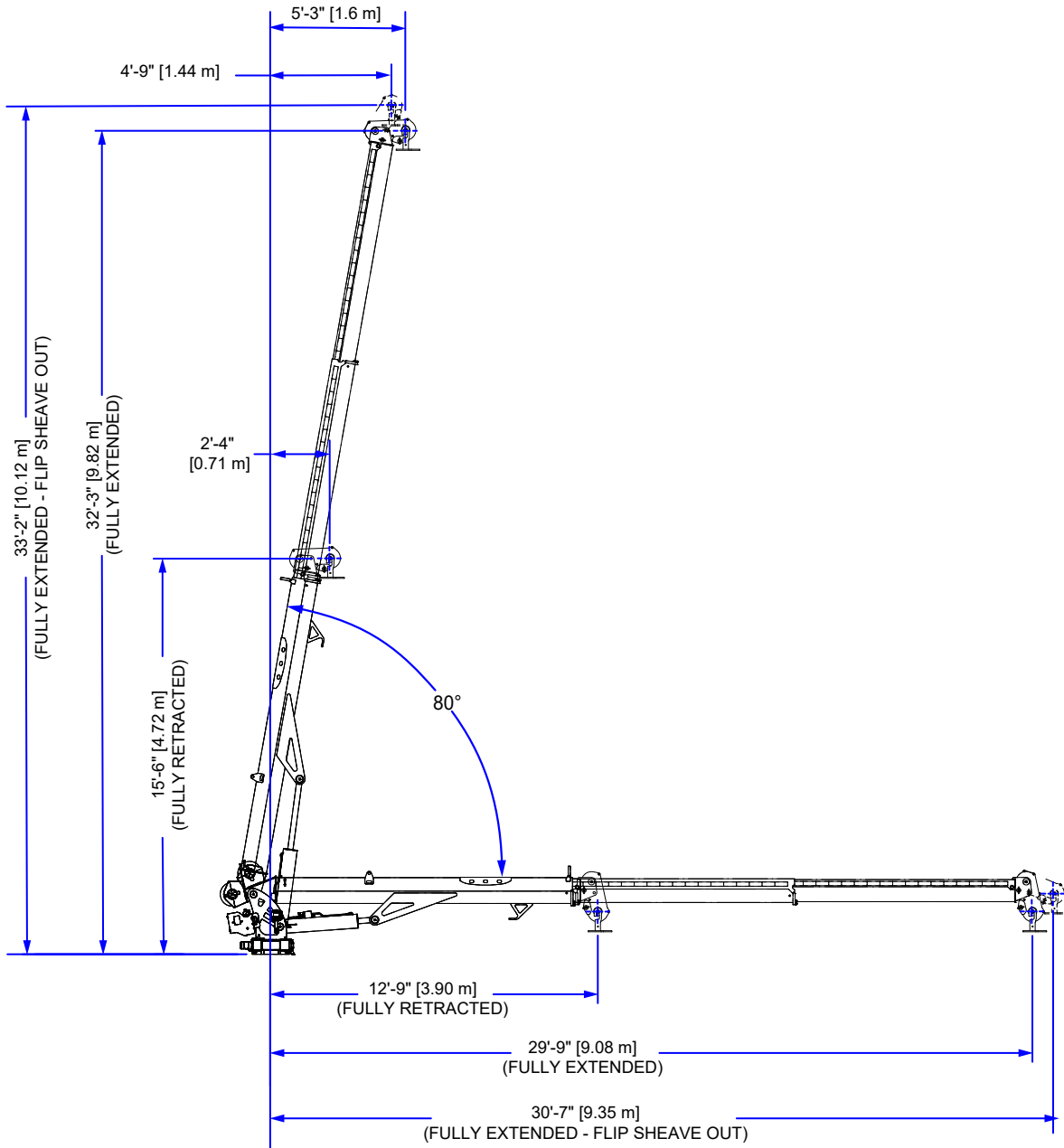
# Dimension Drawing 10600-27 & 12600-27 (99906930)



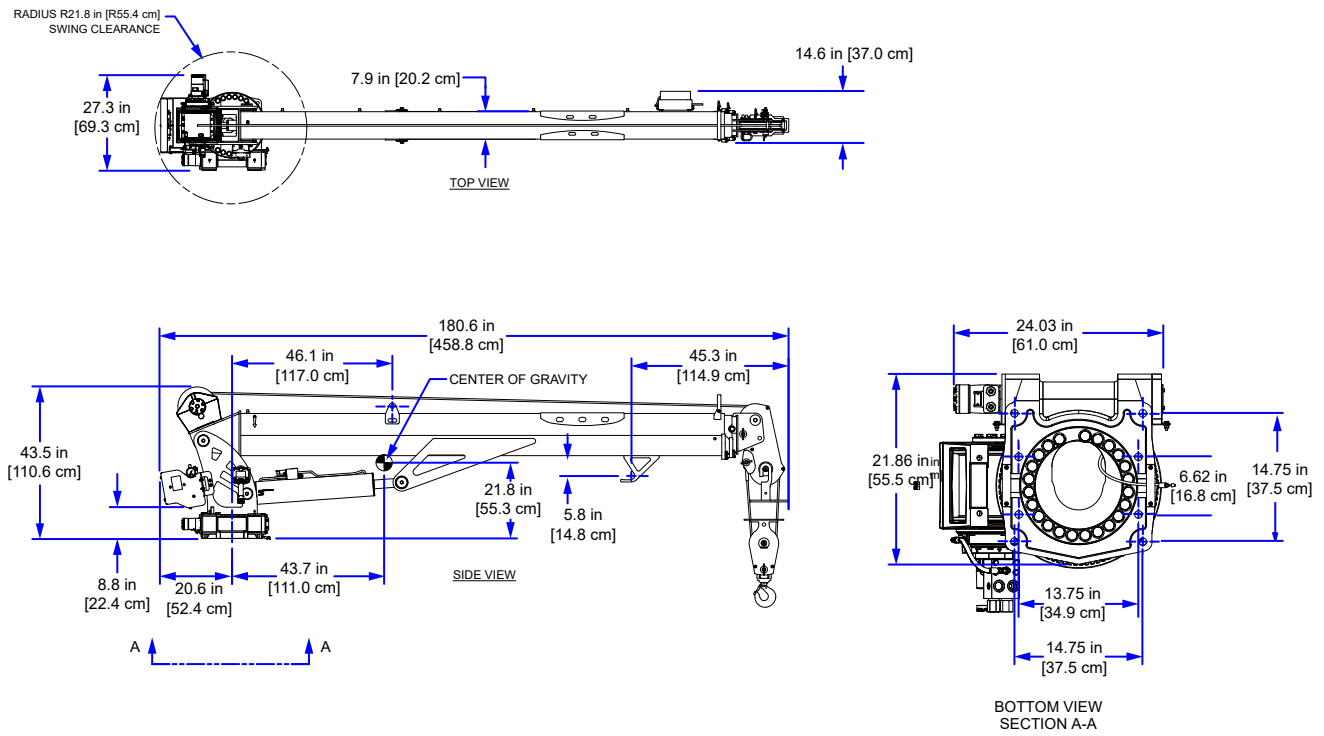
### Dimension Drawing 10600-27 & 12600-27 (99906930) CONTINUED



# Dimension Drawing 10600-32 & 12600-32 (99906929)



### Dimension Drawing 10600-32 & 12600-32 (99906929) CONTINUED



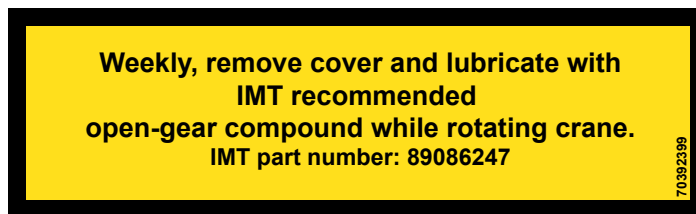
## Greasing Instructions

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.

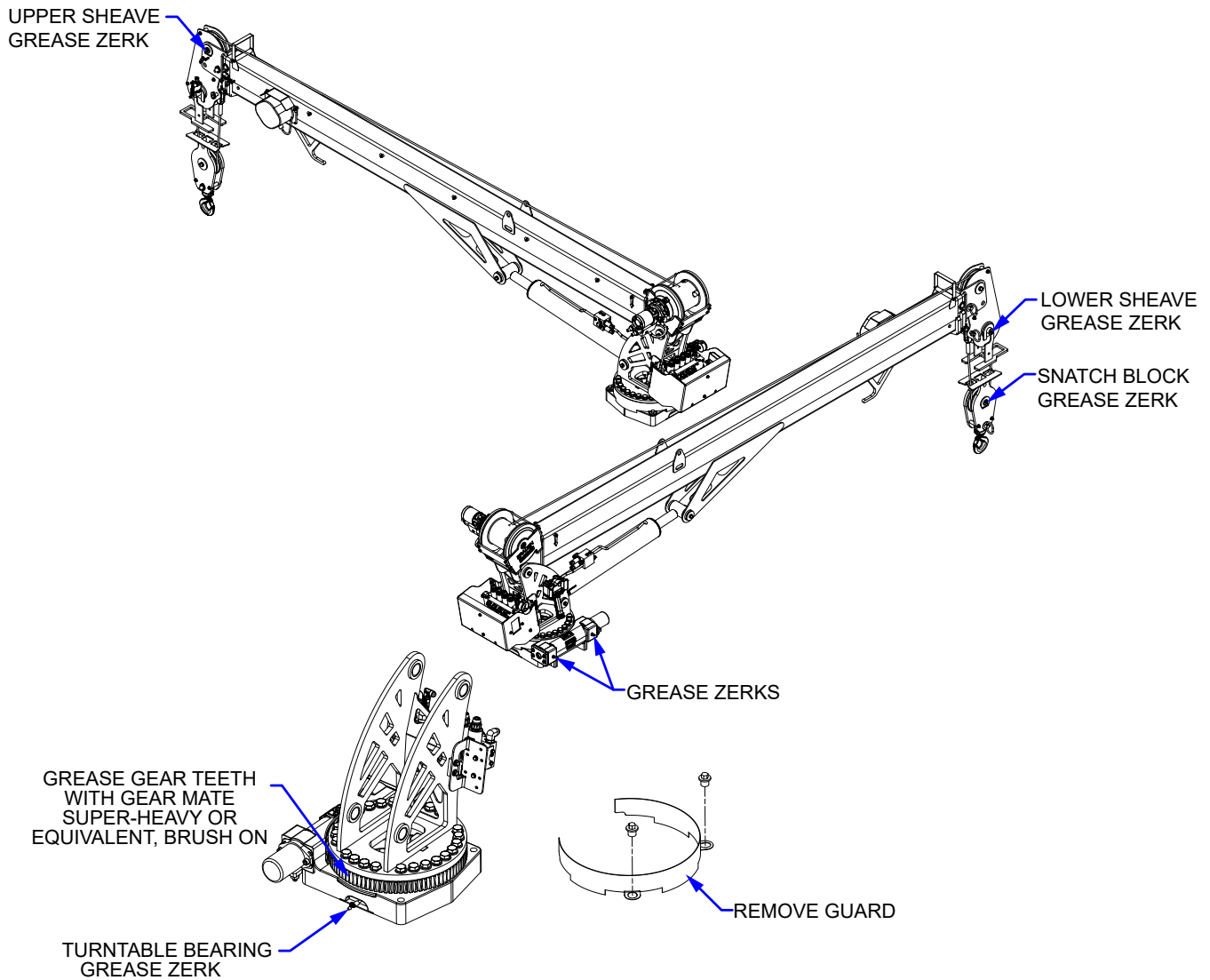
Crane grease zerks must be greased on a weekly basis during normal operating conditions. Under severe operating conditions the zerks must be greased more frequently. Each grease zerk is marked with a decal, "grease weekly", as shown. Rotate the worm gear bearing when greasing the worm gear bearing grease 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 with grease and leave no exposed metal surfaces showing.

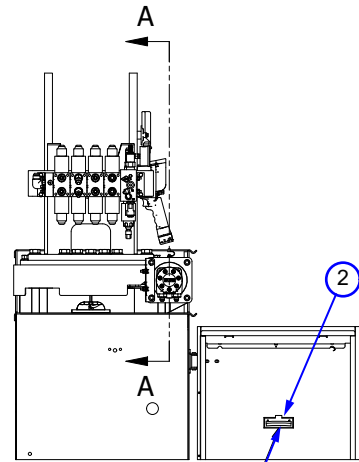
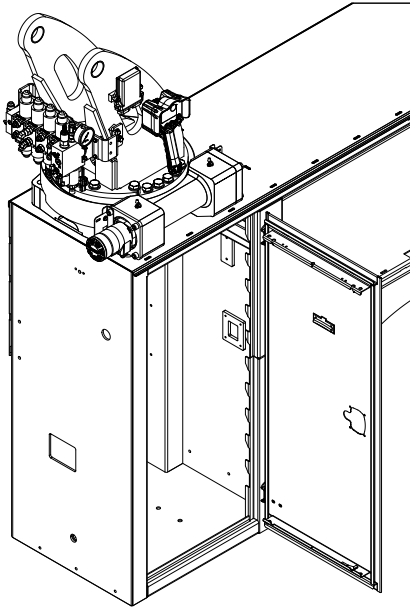


# Greasing Locations

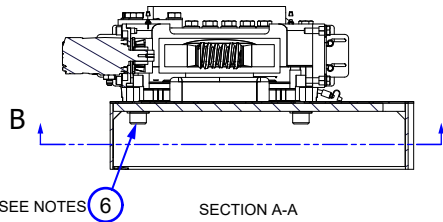


LOCATION	LUBRICANT	APPLICATION METHOD	FREQUENCY
BASE - TURNTABLE BEARING GREASE ZERKS	EXTREME PRESSURE LITHIUM GREASE SUCH AS: SHELL ALVANIA 2EP, SHELL RETINAX A, MOBILGREASE XHP 462, CENEX ML 365®, XTREME TRUE-FLO EP2 LITHIUM GREASE OR EQUIVALENT	APPLY WITH HAND OR PNEUMATIC PRESSURE GREASE GUN	WEEKLY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

# Crane Installation, ALL MODELS (99906744)



LEVEL INDICATOR INSTALLED PARALLEL TO DOOR REINFORCEMENTS



SEE NOTES 6

SECTION A-A

USE CUT WASHERS WHERE NEEDED TO CLEAR CRANE COMPARTMENT STRUCTURE

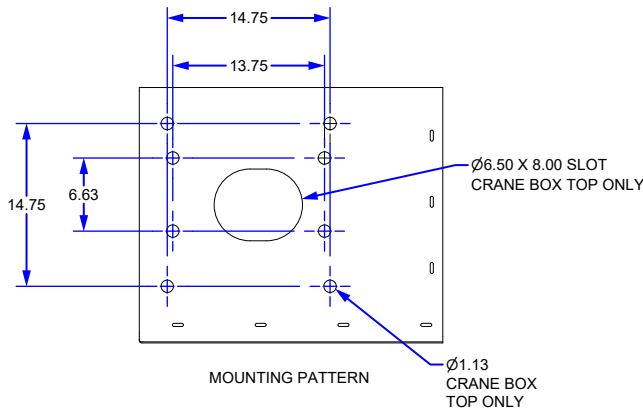
QTY 4 CENTER BOLTS 5

3

4

QTY 4 OUTER BOLTS 6

SECTION B-B



MOUNTING PATTERN

Ø1.13  
CRANE BOX  
TOP ONLY

**NOTES**

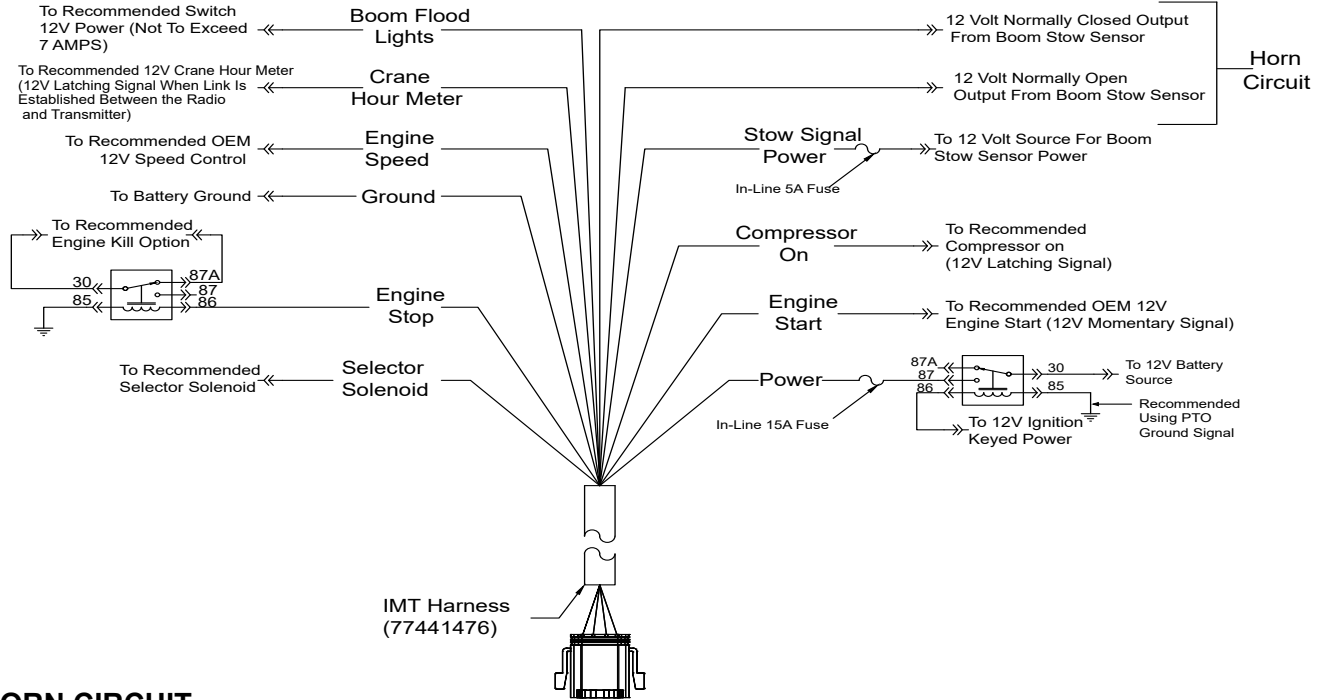
1. THE 2.50" BOLTS SUPPLIED ARE PART OF THE CRANE INSTALLATION KITS. DETERMINE THE CRANE BOX TOP THICKNESS AND ENSURE THAT THE BOLTS WILL HAVE A MINIMUM THREAD ENGAGEMENT OF 1.50". IF DIFFERENT LENGTH BOLT ARE REQUIRED THEY MUST BE 1-8, GRADE 8, AND ZINC COATED.
2. TORQUE MOUNTING BOLTS TO 680 FT-LB

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	93728387	INSTL-KIT DS4 -DOM 3-4 12000	1
2.	72042097	LEVEL INDICATOR LEVEL	1
3.	72063066	WASHER 1.00 FLAT HI STR	8
4.	72063286	WASHER-FLAT 1.00 H ASTM F436 Z-CUT	8
5.	72601816	CAP SCR 1.00- 8X 4.00 SH A574	4
6.	72002151	CAP SCR 1.00- 8X 2.50 SH GR8	4

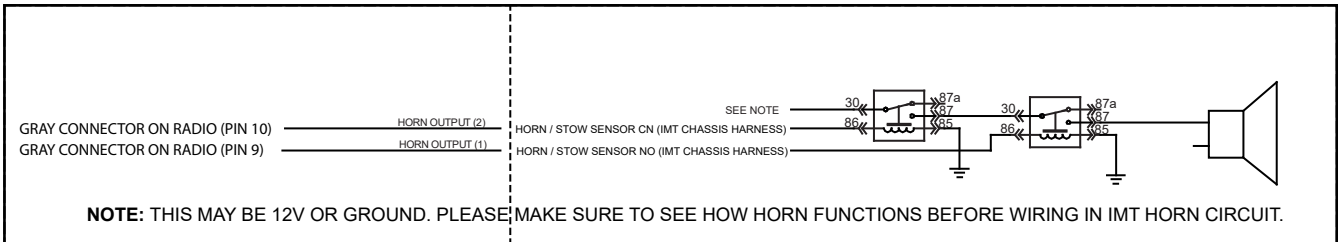
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# Chassis Wiring Harness (77441476 / 99905212)

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



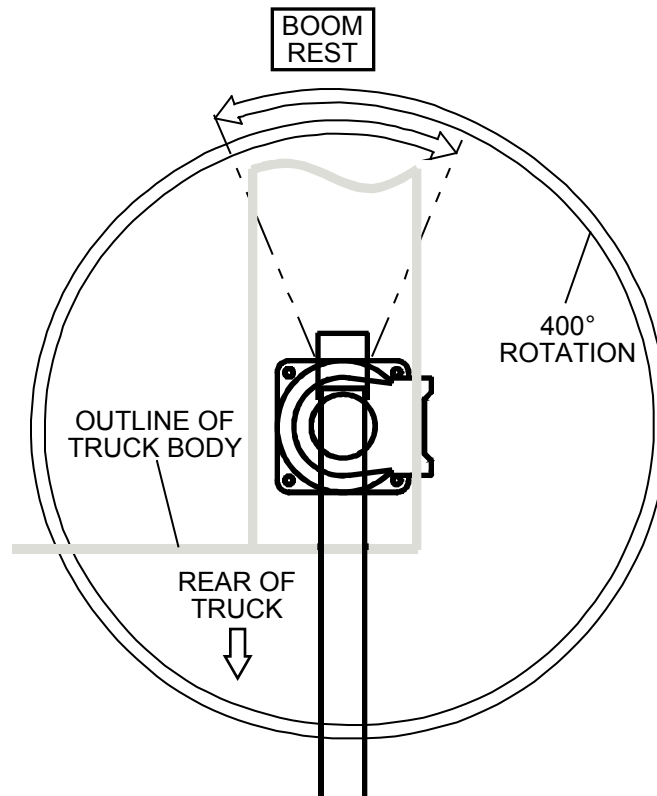
### HORN CIRCUIT



## 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 during installation and that it adequately protects the hoses from contact with the mast, rotator, and crane box edges during rotation.



Hose Sleeve



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

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

## Parts Information

### GENERAL

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

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

### CRANE IDENTIFICATION

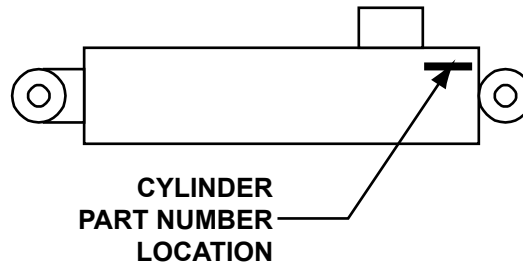
Every IMT crane has an identification placard (see figure below). This placard is attached to the lower boom. When ordering parts, communicating warranty information, or referring to the unit in correspondence, always include the serial number and model numbers. Address all inquiries to your authorized 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	<input type="text"/>
SERIAL NUMBER	<input type="text"/>
MFG DATE	<input type="text"/>
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 REPLACEMENT

Contact IMT Technical Support prior to replacing any major weldment.

## ORDERING REPAIR PARTS

When ordering replacement parts:

1. Give the model number of the unit.
2. Give the serial number of the unit.
3. Specify the complete part number. When ordering cylinder parts, 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.

### 10600-27 & 12600-27 PARTS LIST

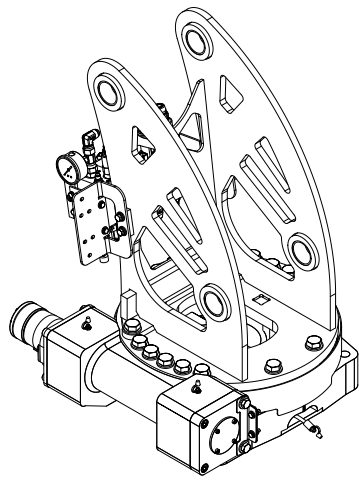
<b>BASE &amp; MAST(99906927)</b>		
<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
70034596	BEARING MRP 2.00X2.25X1.38 POLYGON	4
89086247	GREASE-GEAR GEARMATE 1000 SUPERHVY	1
<b>VALVE BANK</b>		
73540397	VALVE-BRAKE RELEASE SOLENOID	1
73540256	COIL-S SERIES FOR 73540397 12VDC DEUTSCH	1
73540252	VALVE-CART-P FLOW CTRL 12 VDC W MNL OVRD	1
73540253	COIL-FOR 73540252 12VDC DEUTSCH	1
73540396	RELIEF VALVE-FOR 73734472 @ 3200 PSI	1
73540750	VALVE-D03 4W/3P DANFOSS	4
77411056	COIL-D03 FOR 73540750	2
<b>BOOM ASSEMBLY (99906926)</b>		
70034582	BEARING MRP 2.00X2.25X2.00 POLYGON	2
70034597	BEARING MRP 2.00X2.25X1.50 POLYGON	2
77041863	SWITCH-LIMIT DT04-4P CONN	1
77040823	CORD REEL ASM- SENSING CMD.CTRL	1
<b>RIGGING COMPONENTS (99906930)</b>		
70580233	WIRE ROPE ASM- GALV.44(6X25)X100ft XIPS	1
60030615	SHEAVE- 8.00 NYLATRON GSM	1
60030255	SHEAVE- 9.00 POLYMER	2
71417353	SAFETY LATCH FOR 70735082	1
70735082	HOOK-SWVL 7T BBRG W/LATCH	1
<b>LOWER CYLINDER (51728769)</b>		
94490604	SEAL KIT - 51728769	1
77041866	TRANSDUCER-HYD 0-5000PSI 4-20mA 2-Wire	1
73540673	VALVE-CBAL SUN CBBB-LAN 3300 PSI	1
<b>EXTENSION CYLINDER (51728755)</b>		
94490612	SEAL KIT - 51728755 & 51728756	1
73540730	VALVE-CBAL SUN01 CBBB-LJN 3250 PSI	1
<b>Hoist (70571196)</b>		
94744147	SEAL KIT FOR 70570771	1
71734007	VALVE-CBAL BRADEN - CART FOR 70570771	1
<b>RADIO REMOTE CONTROL</b>		
70735198	TRANSM-RAD W/ LCD CMD.CTRL	1
71415460	MAGNET-TELE RAD REM TRANS W SCREW CERVIS	1
77040857	BUTTON E-STOP S4 REMOTE	1
77040858	HOLDER BATTERY S4 REMOTE	1

77040860	SWITCH TOGGLE S4 REMOTE	1
77040861	CAP M12 TETHER S4 REMOTE	1

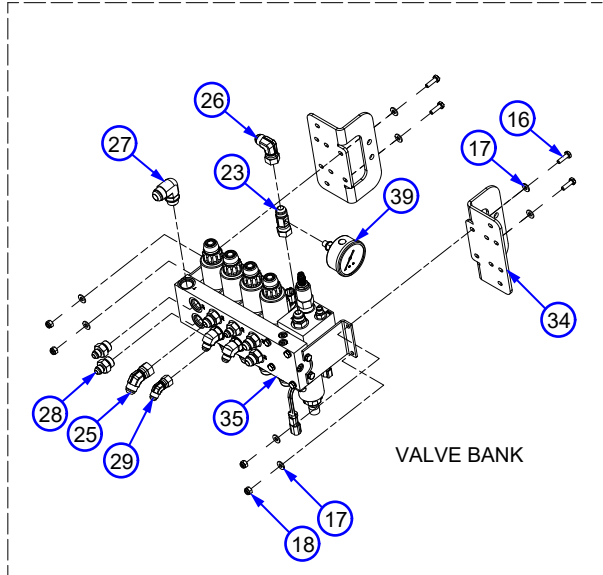
### 10600-32 & 12600-32 PARTS LIST

<b>BASE &amp; MAST(99906927)</b>		
<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
70034596	BEARING MRP 2.00X2.25X1.38 POLYGON	4
89086247	GREASE-GEAR GEARMATE 1000 SUPERHVY	1
<b>VALVE BANK</b>		
73540397	VALVE-BRAKE RELEASE SOLENOID	1
73540256	COIL-S SERIES FOR 73540397 12VDC DEUTSCH	1
73540252	VALVE-CART-P FLOW CTRL 12 VDC W MNL OVRD	1
73540253	COIL-FOR 73540252 12VDC DEUTSCH	1
73540396	RELIEF VALVE-FOR 73734472 @ 3200 PSI	1
73540750	VALVE-D03 4W/3P DANFOSS	4
77411056	COIL-D03 FOR 73540750	2
<b>BOOM ASSEMBLY (99906928)</b>		
70034582	BEARING MRP 2.00X2.25X2.00 POLYGON	2
70034597	BEARING MRP 2.00X2.25X1.50 POLYGON	2
<b>RIGGING COMPONENTS (99906929)</b>		
70580235	WIRE ROPE ASM-GALV.44X120ft XXIPS	1
60030615	SHEAVE- 8.00 NYLATRON GSM	1
60030255	SHEAVE- 9.00 POLYMER	2
71417353	SAFETY LATCH FOR 70735082	1
70735082	HOOK-SWVL 7T BBRG W/LATCH	1
<b>LOWER CYLINDER (51728769)</b>		
94490604	SEAL KIT - 51728769	1
77041866	TRANSDUCER-HYD 0-5000PSI 4-20mA 2-Wire	1
73540673	VALVE-CBAL SUN CBBB-LAN 3300 PSI	1
<b>EXTENSION CYLINDER (51728756)</b>		
94490612	SEAL KIT - 51728755 & 51728756	1
73540730	VALVE-CBAL SUN01 CBBB-LJN 3250 PSI	1
<b>HOIST (70571196)</b>		
94744147	SEAL KIT FOR 70570771	1
71734007	VALVE-CBAL BRADEN - CART FOR 70570771	1
<b>RADIO REMOTE CONTROL</b>		
70735198	TRANSM-RAD W/ LCD CMD.CTRL	1
71415460	MAGNET-TELE RAD REM TRANS W SCREW CERVIS	1
77040857	BUTTON E-STOP S4 REMOTE	1
77040858	HOLDER BATTERY S4 REMOTE	1
77040860	SWITCH TOGGLE S4 REMOTE	1
77040861	CAP M12 TETHER S4 REMOTE	1

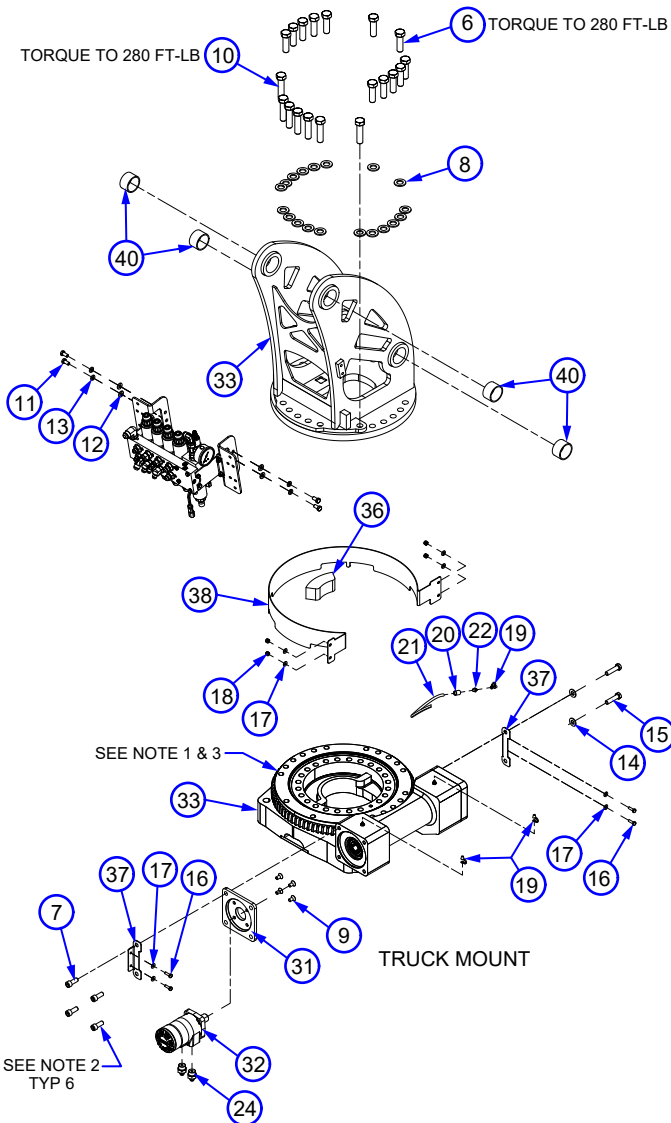
# Hydraulic Base Assembly, ALL MODELS (99906927)



TRUCK MOUNT



VALVE BANK



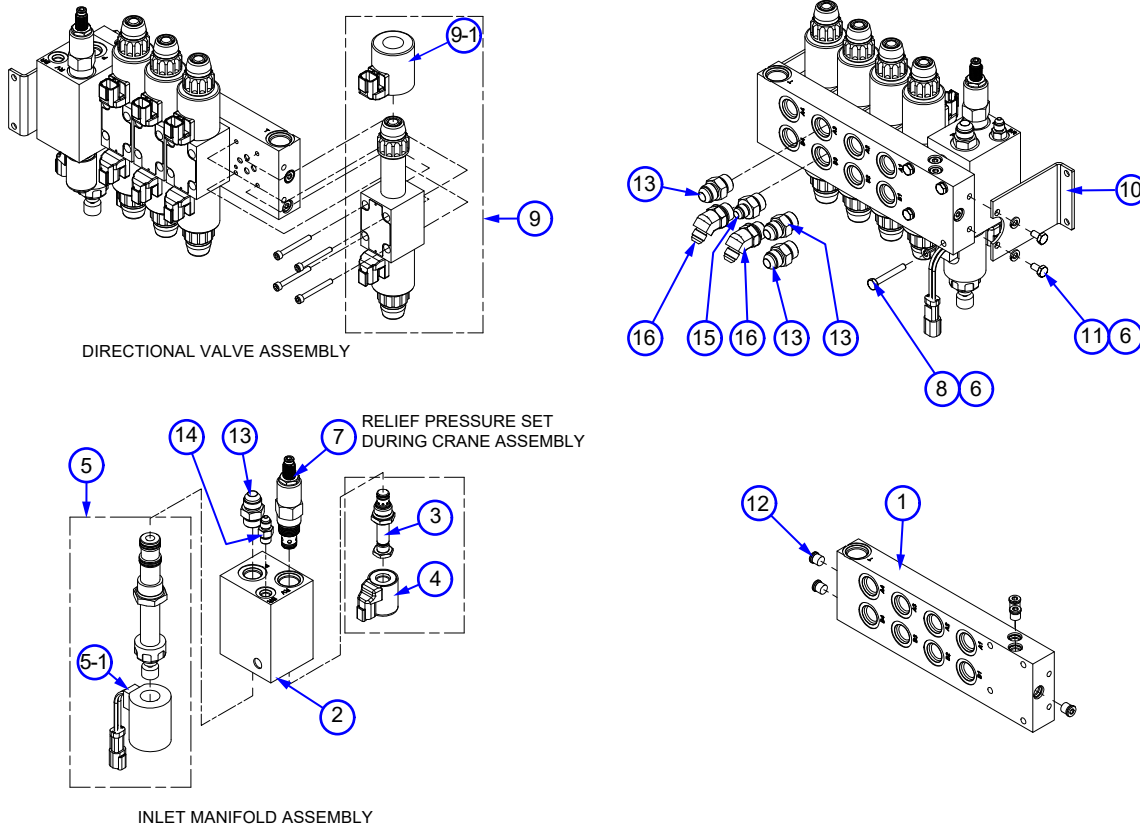
### NOTES

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, ALL MODELS (99906927) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728815	KIT-HRDW BASE ASM 10600-12600	1	
2	51728816	KIT-HRDW VALVE BANK ASM 3300-12600	1	
3	51728817	KIT-HRDW GEAR GUARD 10600-12600	1	
4	51728818	KIT-GREASE 7600-12600	1	
5	91728802	KIT-HYD BASE ASM 7600-12600	1	
6	72060208	CAP SCR .75-10X 2.50 HH GR8 Z	12	1
7	72601949	CAP SCR .50-13X 1.25 SH ZC	4	1
8	72063116	WASHER .75 N FLAT H ASTM F436Z	19	1
9	72601043	SCR-MACH .38-16X .75 FLH SOCZ	4	1
10	72060207	CAP SCR .75-10X 3.00 HH GR8 Z	7	1
11	72060044	CAP SCR .38-16X .75 HH GR5 Z	4	2
12	72063003	WASHER .38 FLAT	4	2
13	72063051	WASHER .38 LOCK	4	2
14	72063132	WASHER .50 FLAT ASTM F436	2	3
15	72060118	CAP SCR .50-13X 2.00 HH GR8 Z	2	3
16	72060003	CAP SCR .25-20X .88 HH GR5 Z	8	2, 3
17	72063001	WASHER .25 FLAT	16	2, 3
18	72062104	NUT .25-20 HEX NYLOCK	8	2, 3
19	70034382	CAP-GREASE PRO20 GC-RED	3	4
20	72053301	COUPLING-GLV .12 SCH 40	1	4
21	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	1	4
22	72053508	ZERK-NPT .12	1	4
23	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1	5
24	72533613	ADPTR-M STR/M JIC 10 6	2	5
25	72532670	ELBOW-M JIC/45/F JIC 8 8	1	5
26	72532658	ELBOW-M JIC/90/F JIC SW 8 8	1	5
27	72533507	ELBOW-M STR/90/M JIC 8 10	1	5
28	72532356	ADPTR-M STR/M JIC 8 6	2	5
29	72534401	ELBOW-M JIC/45/F JIC 6 6	1	5
30	71056704	GEAR ROTATOR-109000 FTLB 0.75 BOLTS KIN	1	
31	60145972	FLANGE ADAPTOR KINEMATICS	1	
32	73511391	MOTOR-HYD 101 1013 009	1	
33	52728740	WLDMT-MAST 10600-12600 S5	1	
34	60147813	BRKT-MAST VB 7600-12600	2	
35	73735318	VALVE-TELE CRN 4-FUNCTION D03 12V	1	
36	60120138	SLIDE-ROTATION STOP 3816	1	
37	71417488	BRKT-GEAR GUARD 10600-12600	2	
38	71417487	GEAR GUARD 10600-12600 KINEMATICS	1	
39	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1	
40	70034596	BEARING MRP 2.00X2.25X1.38 POLYGON	4	
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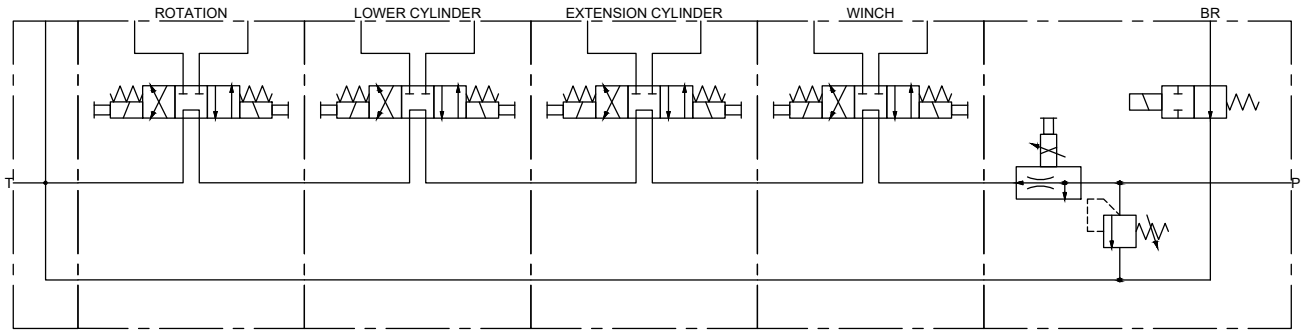
# Hydraulic Valve Bank, ALL MODELS (73735318)



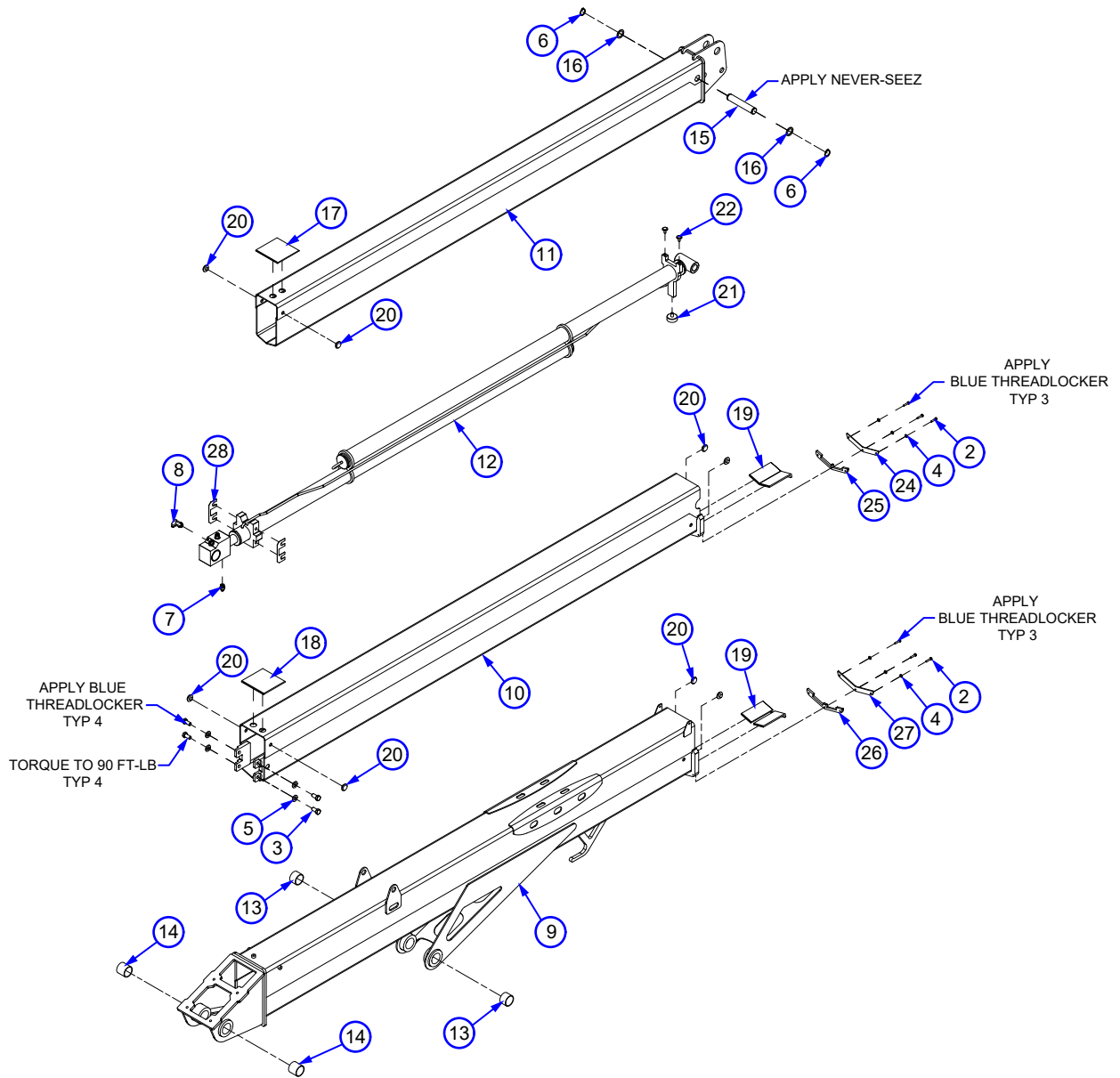
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	71417491	MANIFOLD-73735318 SUBPLATE	1
2	71417492	MANIFOLD-73735318 INLET	1
3	73540397	VALVE-BRAKE RELEASE SOLENOID	1
4	73540256	COIL-S SERIES FOR 73540397 12VDC DEUTSCH	1
5	73540252	VALVE-CART-P FLOW CTRL 12 VDC W MNL OVRD	1
5-1	73540252	VALVE-CART-P FLOW CTRL 12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

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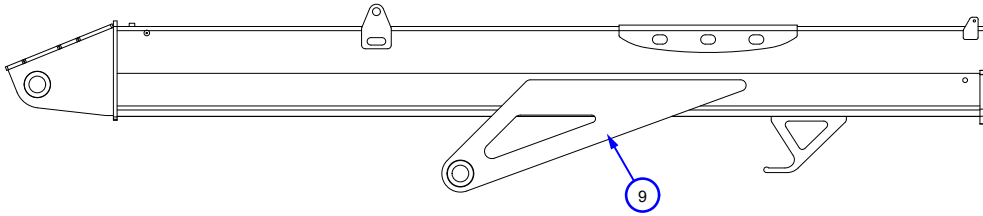
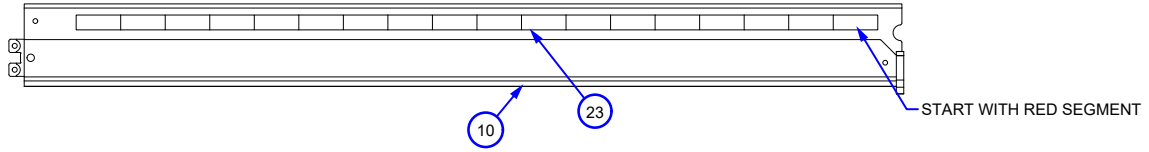
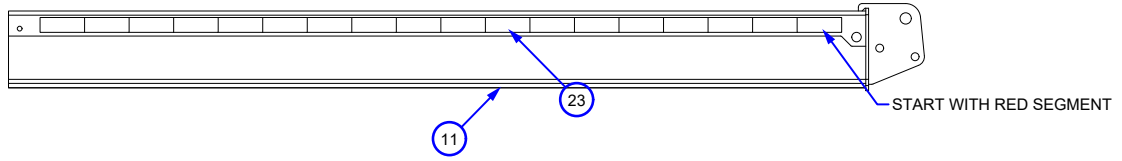
**Hydraulic Valve Bank, ALL MODELS (73735318) CONTINUED**



# Boom Assembly 10600-27 & 12600-27 (99906926)



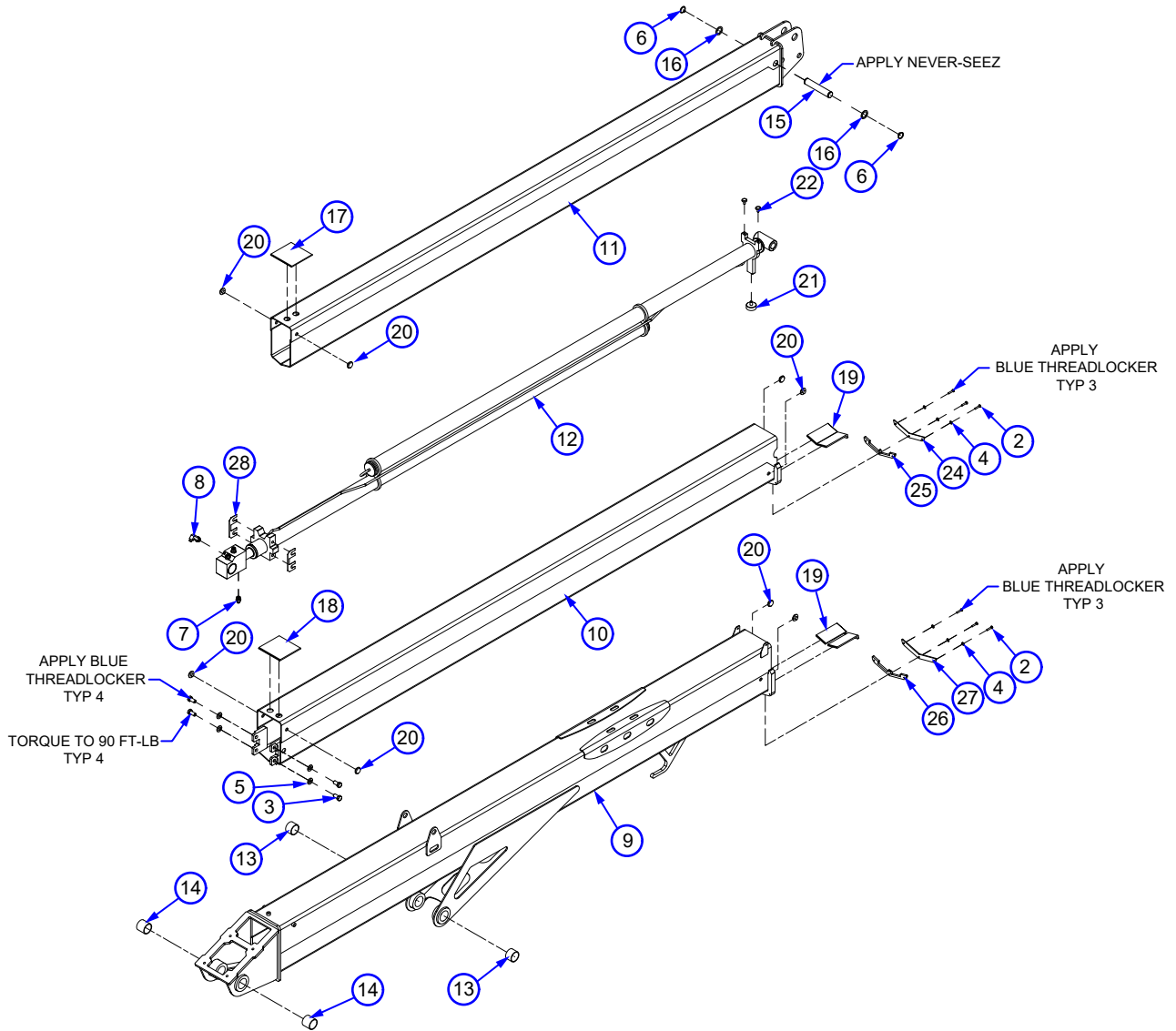
**Boom Assembly 10600-27 & 12600-27 (99906926) CONTINUED**



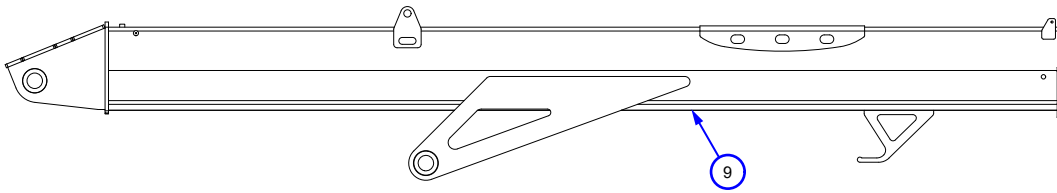
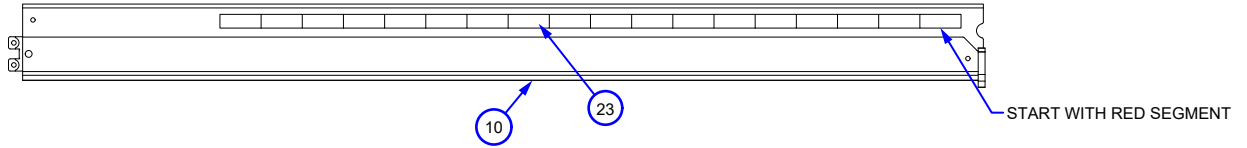
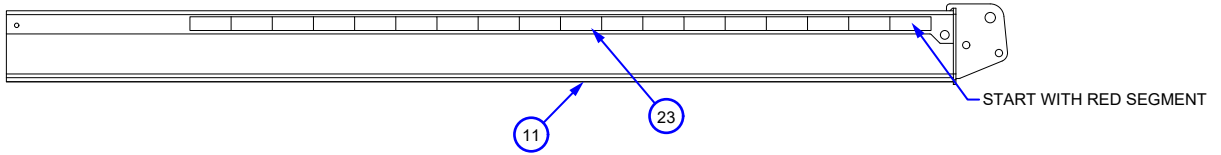
**Boom Assembly 10600-27 & 12600-27 (99906926) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728857	KIT-HRDW BOOM ASM 10600-12600	1	
2	72060005	CAP SCR .25-20X 1.25 HH GR5 Z	6	1
3	72601727	CAP SCR .62-11X 1.25 HH GR8 Z	4	1
4	72063001	WASHER .25 FLAT	6	1
5	72063119	WASHER .62 FLAT ASTM F436	4	1
6	72066129	RETAINING RING-EXT 1.25 HD	2	1
7	72532356	ADPTR-M STR/M JIC 8 6	1	
8	72535033	ELBOW-M STR/90/M JIC 8 6 XL	1	
9	52728683	WLDMT-LOWER BOOM 10600-12600S S5	1	
10	52728695	WLDMT-1ST STAGE EXT BOOM 10600S-12600S S5	1	
11	52728708	WLDMT-2ND STAGE EXT BOOM 10600-12600S S5	1	
12	51728755	CYL-2.50/1.75 2.50/1.75 168.00S 129.50CC S5	1	
13	70034597	BEARING MRP 2.00X2.25X1.50 POLYGON	2	
14	70034582	BEARING MRP 2.00X2.25X2.00 POLYGON	2	
15	60135669	PIN-TYPE A 1.25X 6.89 ( 6.46)	1	
16	72063035	MACHY BUSHING 1.25X10 GA NR	2	
17	60030336	WEAR PAD-RC 0.19X 5.94X 5.94	1	
18	60030421	WEAR PAD-RC 0.25X 5.94X 6.00	1	
19	60030603	WEAR PAD-RC 0.25X 6.00X 2.75	4	
20	60030607	WEAR PAD-RND 0.25X 1.38X 0.63X 0.34	8	
21	60030422	WEAR PAD-RND SIII EXT CYL	1	
22	60030622	WEAR PAD-RND .25X 1.00X .35X .81	2	
23	70399045	TAPE-REFLECTIVE RED/SILVER2.00X108.00	4	
24	60147926	RETAINER-1ST EXT WP 10600-12600	1	
25	60147927	SPACER-1ST EXT WP 10600-12600	1	
26	60147929	SPACER-LOWER BOOM WP 10600-12600	1	
27	60147928	RETAINER-LOWER BOOM WP 10600-12600	1	
28	60147964	SHIM-EXT CYL YOKE 10600-12600 S5	AR	
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# Boom Assembly 10600-32 & 12600-32 (99906928)



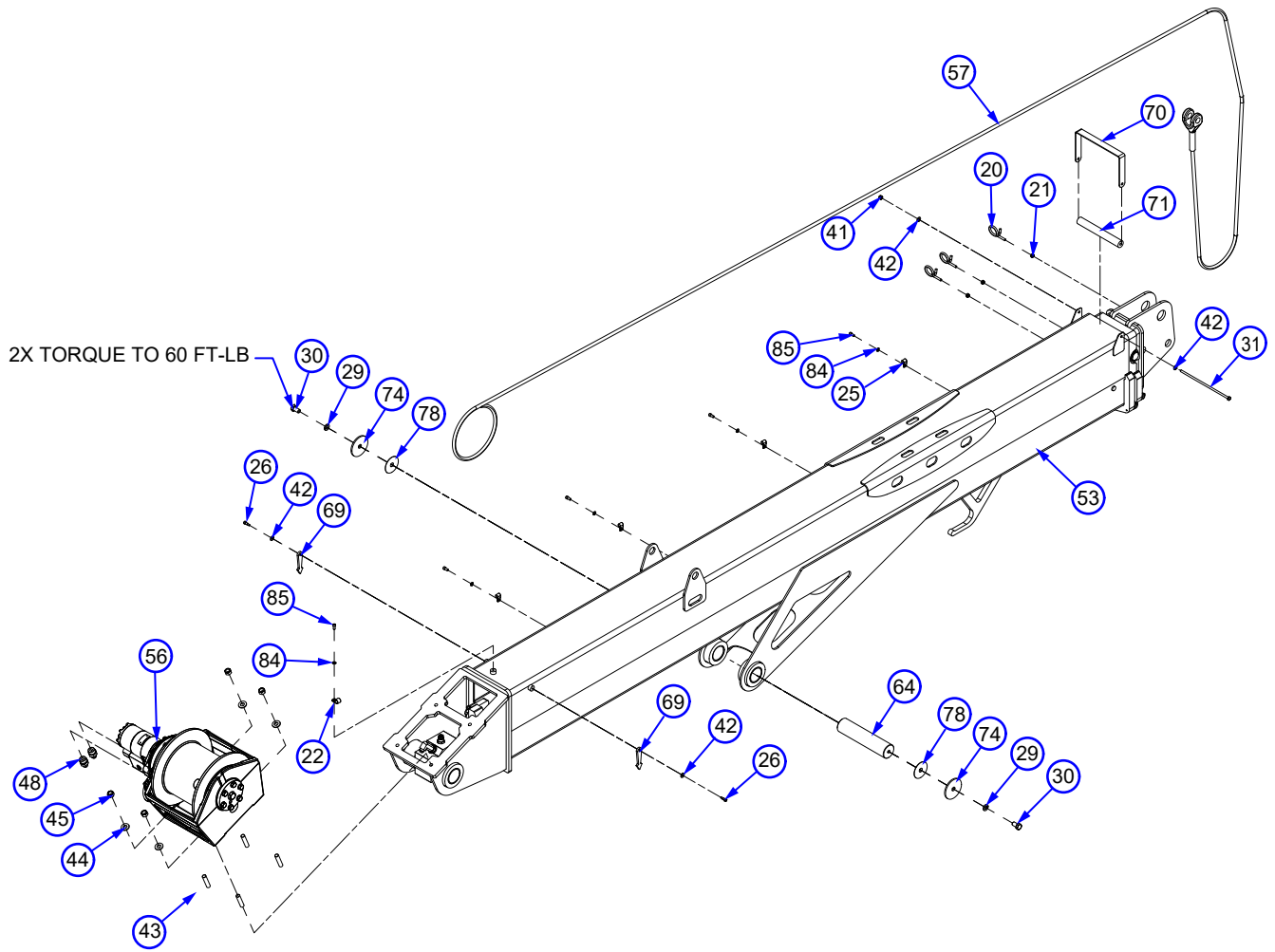
**Boom Assembly 10600-32 & 12600-32 (99906928) CONTINUED**



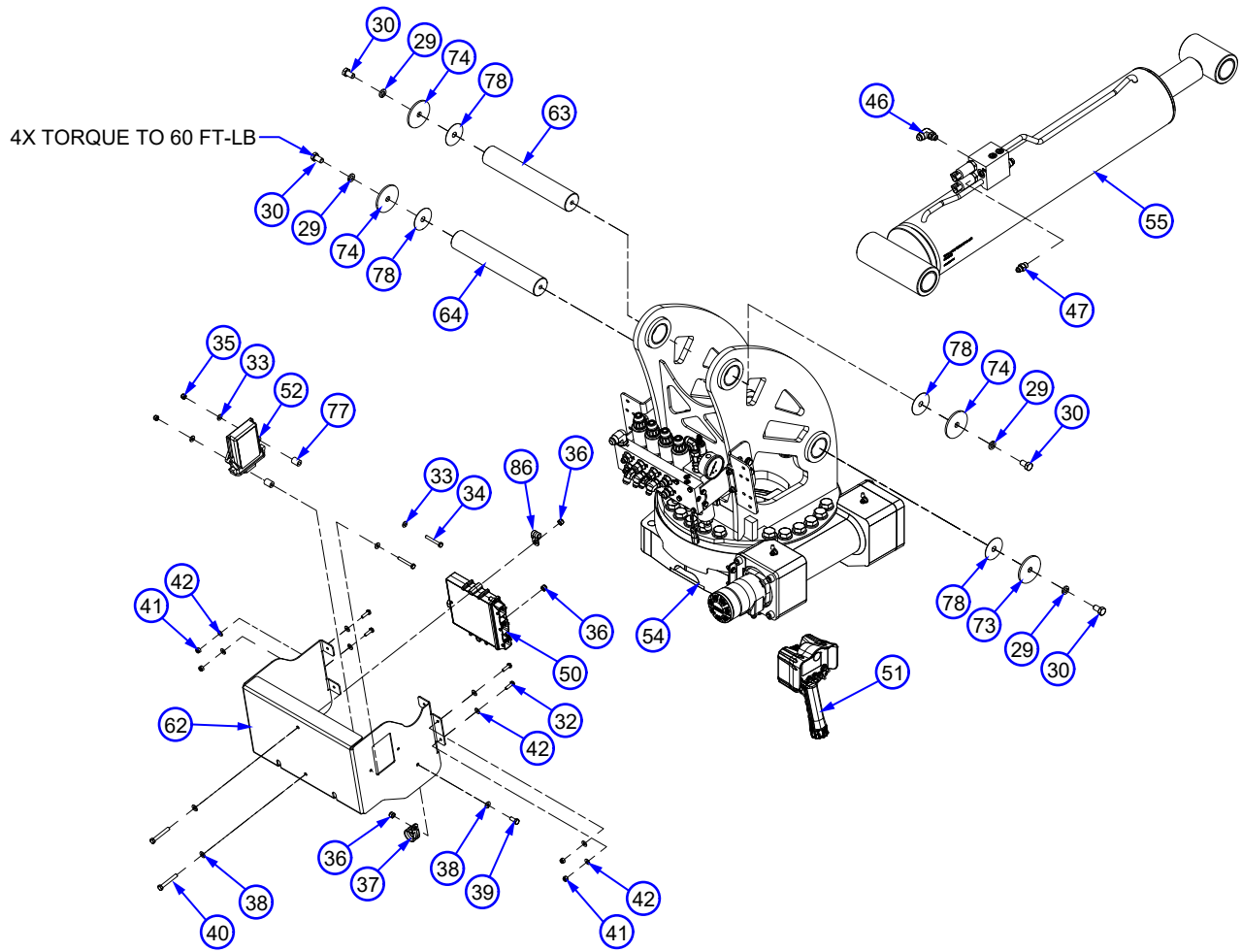
**Boom Assembly 10600-32 & 12600-32 (99906928) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728857	KIT-HRDW BOOM ASM 10600-12600	1	
2	72060005	CAP SCR .25-20X 1.25 HH GR5 Z	6	1
3	72601727	CAP SCR .62-11X 1.25 HH GR8 Z	4	1
4	72063001	WASHER .25 FLAT	6	1
5	72063119	WASHER .62 FLAT ASTM F436	4	1
6	72066129	RETAINING RING-EXT 1.25 HD	2	1
7	72532356	ADPTR-M STR/M JIC 8 6	1	
8	72535033	ELBOW-M STR/90/M JIC 8 6 XL	1	
9	52728674	WLDMT-LOWER BOOM 10600L-12600L S5	1	
10	52728673	WLDMT-1ST STAGE EXT BOOM 10600L-12600L S5	1	
11	52728672	WLDMT-2ND STAGE EXT BOOM 10600-12600L S5	1	
12	51728756	CYL-2.50/1.75 2.50/1.75 204.00S 152.00CC S5	1	
13	70034597	BEARING MRP 2.00X2.25X1.50 POLYGON	2	
14	70034582	BEARING MRP 2.00X2.25X2.00 POLYGON	2	
15	60135669	PIN-TYPE A 1.25X 6.89 ( 6.46)	1	
16	72063035	MACHY BUSHING 1.25X10 GA NR	2	
17	60030336	WEAR PAD-RC 0.19X 5.94X 5.94	1	
18	60030421	WEAR PAD-RC 0.25X 5.94X 6.00	1	
19	60030603	WEAR PAD-RC 0.25X 6.00X 2.75	4	
20	60030607	WEAR PAD-RND 0.25X 1.38X 0.63X 0.34	8	
21	60030422	WEAR PAD-RND SIII EXT CYL	1	
22	60030622	WEAR PAD-RND .25X 1.00X .35X .81	2	
23	70399045	TAPE-REFLECTIVE RED/SILVER2.00X108.00	4	
24	60147926	RETAINER-1ST EXT WP 10600-12600	1	
25	60147927	SPACER-1ST EXT WP 10600-12600	1	
26	60147929	SPACER-LOWER BOOM WP 10600-12600	1	
27	60147928	RETAINER-LOWER BOOM WP 10600-12600	1	
28	60147964	SHIM-EXT CYL YOKE 10600-12600 S5	AR	
REV. INITIAL RELEASE				

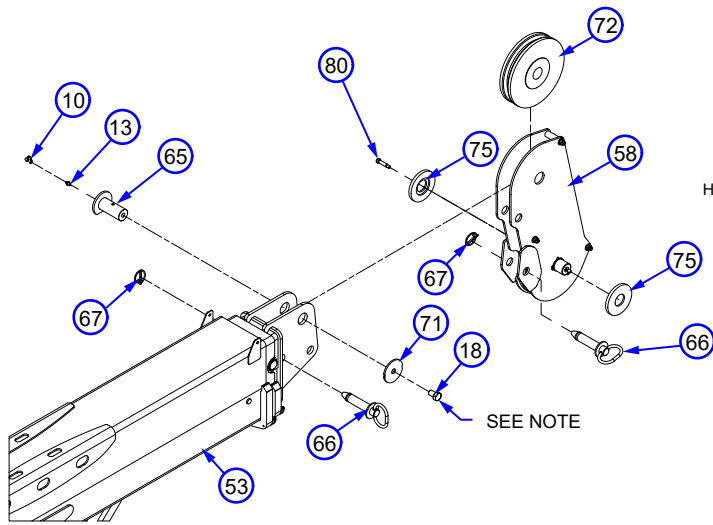
# Crane Assembly 10600-27 & 12600-27 (99906930)



**Crane Assembly 10600-27 & 12600-27 (99906930) CONTINUED**



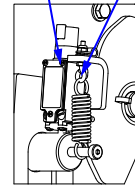
Crane Assembly 10600-27 & 12600-27 (99906930) CONTINUED



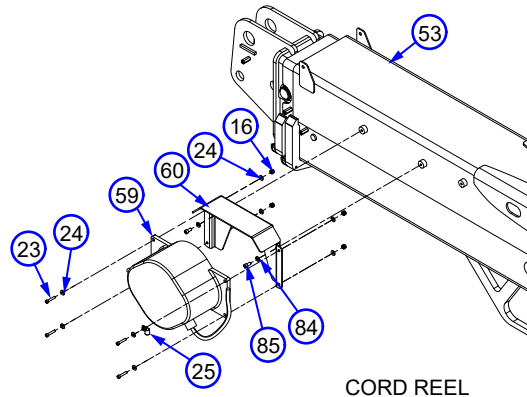
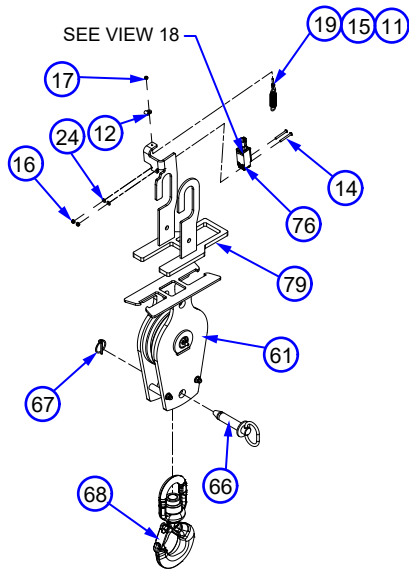
NOTES  
1. APPLY BLUE THREADLOCKER

LIMIT SWITCH SHOULD BE AS HIGH UP AS POSSIBLE IN SLOTS

EYE-BOLT SHOULD BE ORIENTED AS SHOWN



VIEW 18



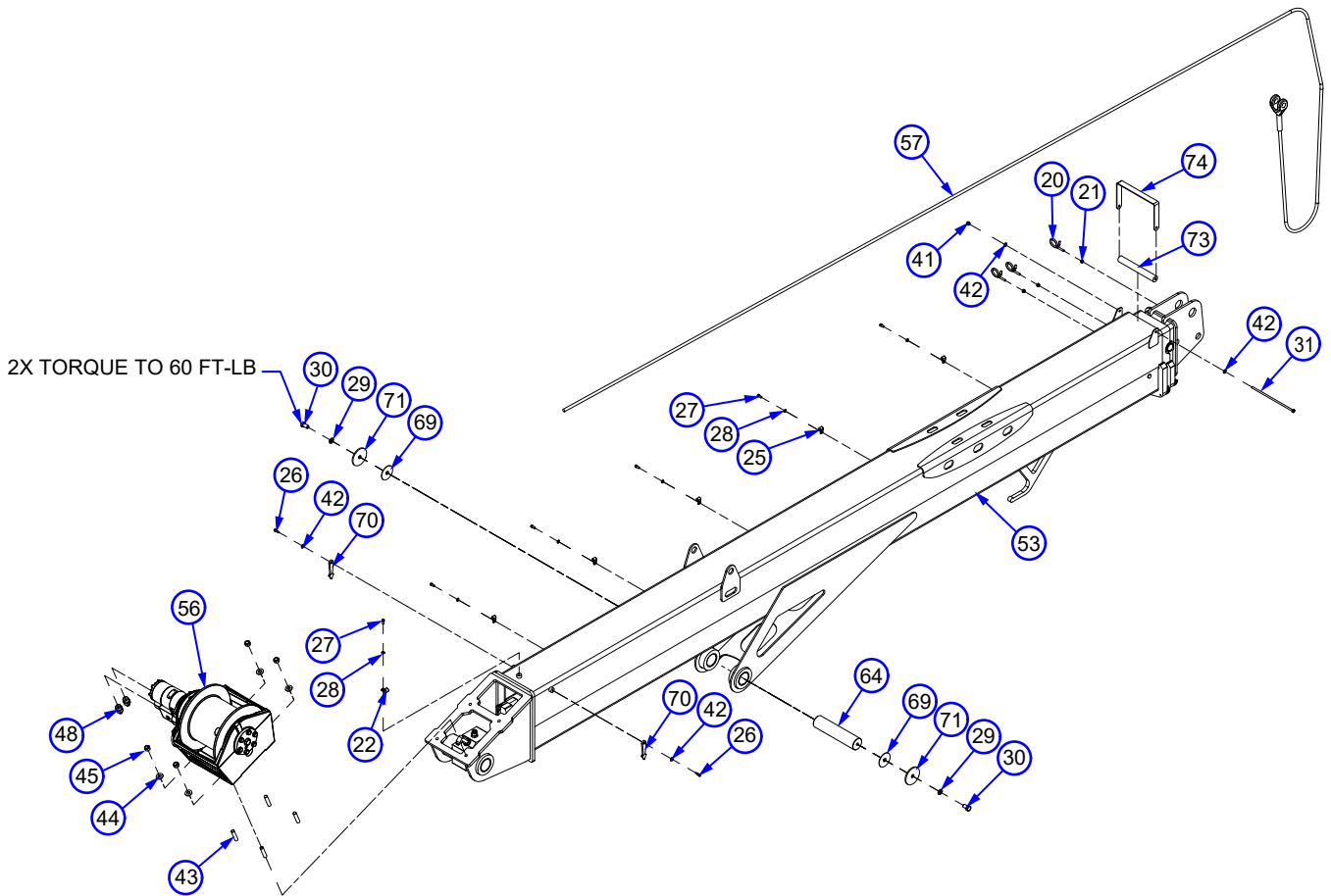
**Crane Assembly 10600-27 & 12600-27 (99906930) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728910	KIT-HRDW A2B ASM 3300-12600	1	
2	51728975	KIT-HRDW COBO CORDREEL ASM 6300-12600	1	
3	51728981	KIT-HRDW ACCESSORIES 7600S-12600S	1	
4	51728913	KIT-HRDW PINNING 3300-12600	1	
5	51728984	KIT-HRDW WIRE ROPE GUIDE 10600-12600	1	
6	51728915	KIT-HRDW VB COVER ASM 3300-12600	1	
7	51728982	KIT-HRDW HOIST 7600-12600	1	
8	91728985	KIT-HYD SP CRANE ASM 10600-12600	1	
9	51728917	KIT-ELEC SP CRANE CMD.CTRL 3300-12600	1	
10	70034382	CAP-GREASE PRO20 GC-RED	1	1
11	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	1	1
12	72034485	CLAMP-LOOP .25 PLASTIC	1	1
13	72053508	ZERK-NPT .12	1	1
14	72060641	SCR-MACH 10-24X 1.75 RDH	2	1
15	72062093	NUT # 8-32 HEX ZINC	1	1
16	72062106	NUT 10-24 HEX NYLOCK	6	1, 2
17	72062207	NUT 8-32 HEX NYLOCK	1	1
18	72601335	CAP SCR .62-11X 1.00 HH SS	1	1
19	72601938	BOLT-EYE # 8-32X 1.125	1	1
20	72661694	BRIDLE RING 1-1/12ID X 1/4-20	3	2
21	72062000	NUT .25-20 HEX	3	2
22	72661810	CLAMP-LOOP .50 VINYL COVERED 0.28 HOLE	1	3
23	72602214	CAP SCR #10-24X 1.00 SH ZINC	4	2
24	72063268	WASHER #10 W FLAT ANSI B27.2Z	10	1, 2
25	72066535	CLAMP-LOOP .38 VINYL COVERED 0.28 HOLE	5	2, 3
26	72601119	BOLT-SHLDR .25X .38	2	3
29	72063144	WASHER-SS .50 LOCK TYPE 304	6	4
30	72602168	CAP SCR .50-13X .88 HH SS	6	4
31	72602210	CAP SCR .25-20X 9.00 HH GR5 Z	1	5
32	72060003	CAP SCR .25-20X .88 HH GR5 Z	4	6
33	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	4	6
34	72601995	CAP SCR .25-20X 2.00 HH SS	2	6
35	72062194	NUT-SS .25-20 NYLOC	2	6
36	72062109	NUT .31-18 HEX NYLOCK	3	6
37	72066582	CLAMP-LOOP 1.25 CUSHIONED	1	6
38	72063002	WASHER .31 FLAT	3	6
39	72060023	CAP SCR .31-18X .75 HH GR5 Z	1	6
40	72060030	CAP SCR .31-18X 2.25 HH GR5 Z	2	6
41	72062104	NUT .25-20 HEX NYLOCK	5	5, 6
42	72063001	WASHER .25 FLAT	12	3, 5, 6
43	72602138	STUD .50-20X 2.25 DBL .50-13 GR8 STL	4	7
44	72063132	WASHER .50 FLAT ASTM F436	4	7
45	72062108	NUT .50-20 HEX CENTER LOCKING	4	7
46	72053762	ELBOW-M STR/90/M JIC 6 8	1	8
47	72532355	ADPTR-M STR/M JIC 6 6	1	8
48	72532359	ADPTR-M STR/M JIC 10 8	2	8
49	77441718	HARNESS-S4 SP CRANE	1	9
50	77040742	CONTROLLER- CRANE MODULE S4	1	9
51	70735198	TRANSM-RAD W/ LCD CMD.CTRL	1	9
52	70735199	RECEIVER-RAD CAN BUS CMD.CTRL	1	9
53	99906926	DWG-BOOM ASM 10600S-12600S S5	1	
54	99906927	DWG-BASE ASM 10600-12600 S5	1	
55	51728769	CYL-5.75/2.50 27.87S 42.05CC S5	1	
56	70571196	HOIST-PLANETARY 7000 LB LINE PULL	1	
57	70580233	WIRE ROPE ASM- GALV.44(6X25)X100ft XIPS	1	
58	51728716	FLIP SHEAVE ASM 10600-12600 S5	1	

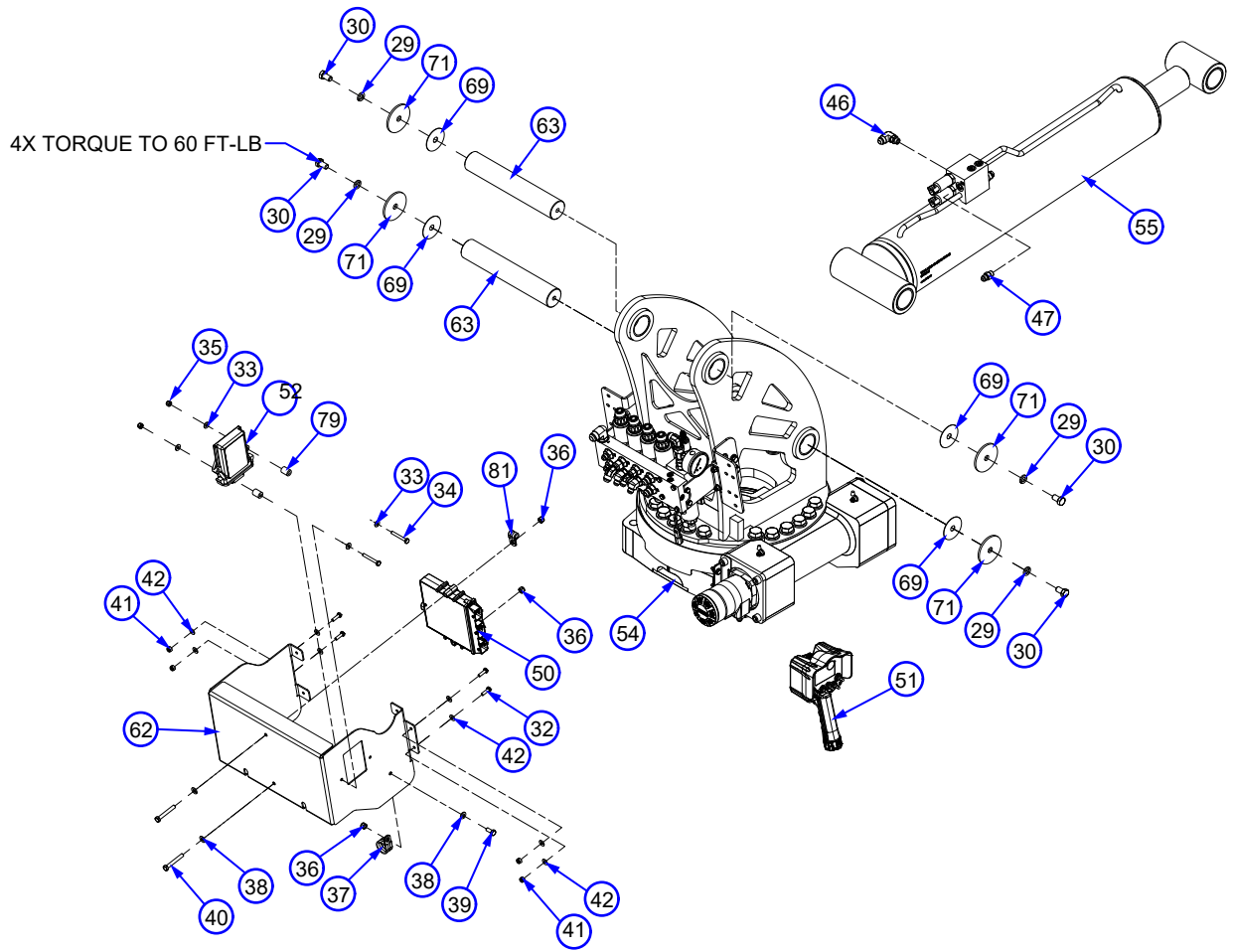
**Crane Assembly 10600-27 & 12600-27 (99906930) PARTS LIST CONTINUED**

59	77040823	CORD REEL ASM- SENSING CMD.CTRL	1	
60	60146843	BRKT-CORD REEL MNT CMD.CTRL	1	
61	51728833	SNATCH BLOCK- DWNHL COMB ASM 10K-12K	1	
62	60147814	COVER-VLV BANK ALL CRANE HYD	1	
63	70190007	PIN-TYPE AB 2.00 X 11.88 SS	2	
64	70190025	PIN-TYPE AB 2.00X 8.75 SS	1	
65	52723030	PIN-TYPE M 1.50X 3.38	1	
66	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN	3	
67	72661543	PIN-QUICK 316-10QP	3	
68	70735082	HOOK-SWVL 7T BBRG	1	
69	60146295	PLATE-ANGLE STEEL 3.50 IN	2	
70	60147807	GUIDE-HOIST CABLE 10600-12600	1	
71	60030624	ROLLER-CABLE GUIDE 0.31X 1.00X 7.75	1	
72	60030255	SHEAVE- 9.00 POLYMER	1	
73	60109337	RETAINER PLT-PIN 3.00 DIA	1	
74	70190004	RETAINER PLT-PIN 0.50 X 3.00 DIA SS	6	
75	60030614	SPACER-A2B BRKT	2	
76	77041863	SWITCH-LIMIT DT04-4P CONN	1	
77	60133634	SLEEVE-TYPE C .63X .81X .31	2	
78	60030590	WEAR PAD-RND 0.56X 2.44X .03	6	
79	52728671	WLDMT- A2B BRKT	1	
80	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	1	1
84	72063049	WASHER .25 LOCK	7	2, 3
85	72060703	CAP SCR .25-20 .50 SH BLK OXIDE	7	2, 3
86	72661312	CLAMP-LOOP .50 CUSHIONED	1	6
REV. INITIAL RELEASE				

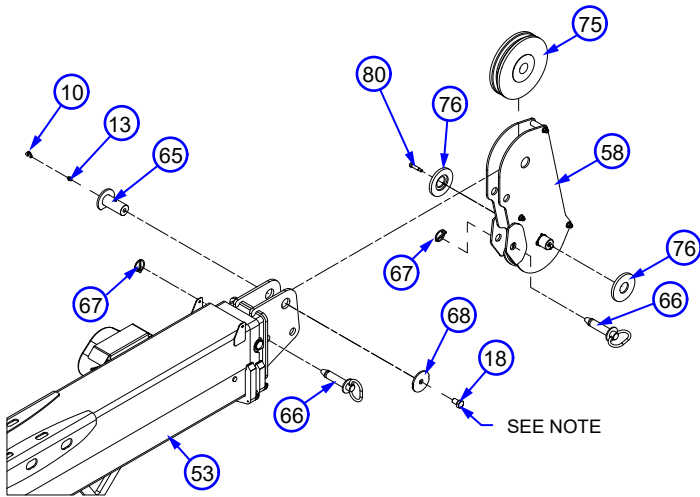
# Crane Assembly 10600-32 & 12600-32 (99906929)



**Crane Assembly 10600-32 & 12600-32 (99906929) CONTINUED**



### Crane Assembly 10600-32 & 12600-32 (99906929) CONTINUED

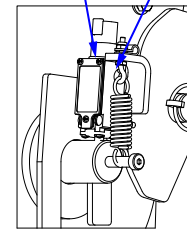


**NOTES**

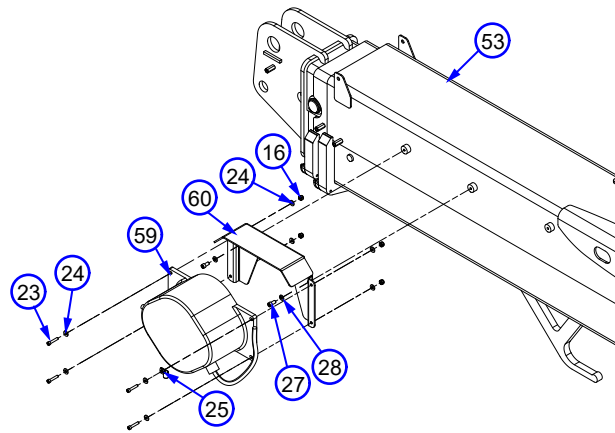
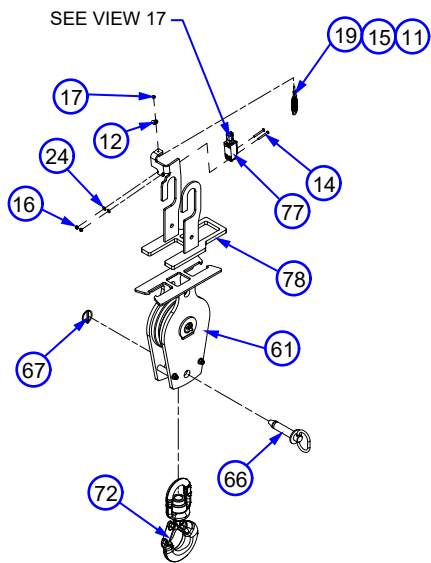
- 1. APPLY BLUE THREADLOCKER

LIMIT SWITCH SHOULD BE AS HIGH UP AS POSSIBLE IN SLOTS

EYE-BOLT SHOULD BE ORIENTED AS SHO



**VIEW 17**



**CORD REEL**

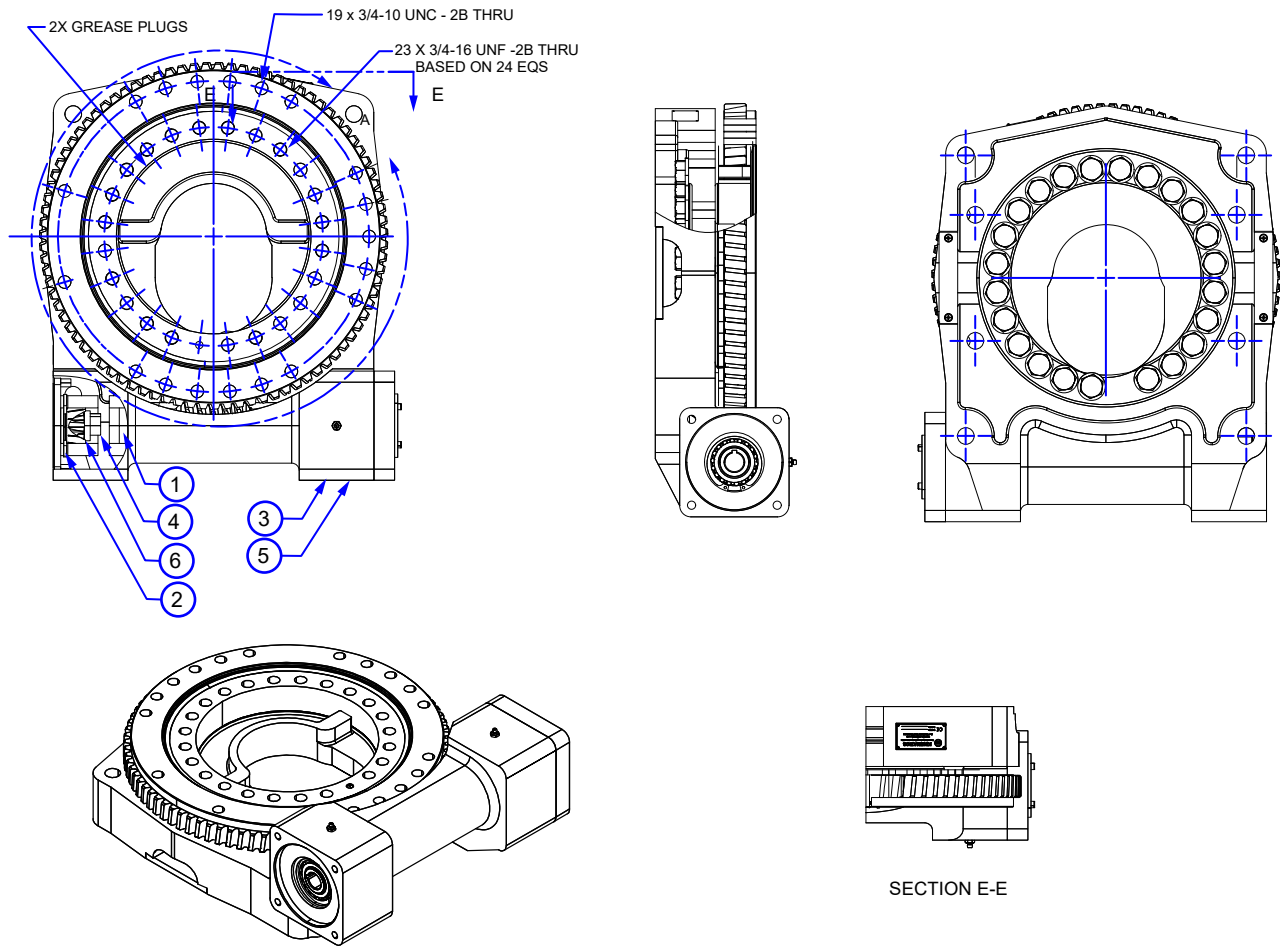
**Crane Assembly 10600-32 & 12600-32 (99906929) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1	51728910	KIT-HRDW A2B ASM 3300-12600	1	
2	51728975	KIT-HRDW COBO CORDREEL ASM 6300-12600	1	
3	51728973	KIT-HRDW ACCESSORIES 5300-12600L	1	
4	51728913	KIT-HRDW PINNING 3300-12600	1	
5	51728984	KIT-HRDW WIRE ROPE GUIDE 10600-12600	1	
6	51728915	KIT-HRDW VB COVER ASM 3300-12600	1	
7	51728982	KIT-HRDW HOIST 7600-12600	1	
8	91728985	KIT-HYD SP CRANE ASM 10600-12600	1	
9	51728917	KIT-ELEC SP CRANE CMD.CTRL 3300-12600	1	
10	70034382	CAP-GREASE PRO20 GC-RED	1	1
11	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	1	1
12	72034485	CLAMP-LOOP .25 PLASTIC	1	1
13	72053508	ZERK-NPT .12	1	1
14	72060641	SCR-MACH 10-24X 1.75 RDH	2	1
15	72062093	NUT # 8-32 HEX ZINC	1	1
16	72062106	NUT 10-24 HEX NYLOCK	6	1, 2
17	72062207	NUT 8-32 HEX NYLOCK	1	1
18	72601335	CAP SCR .62-11X 1.00 HH SS	1	1
19	72601938	BOLT-EYE # 8-32X 1.125	1	1
20	72661694	BRIDLE RING 1-1/12ID X 1/4-20	3	2
21	72062000	NUT .25-20 HEX	3	2
22	72661810	CLAMP-LOOP .50 VINYL COVERED 0.28 HOLE	1	3
23	72602214	CAP SCR #10-24X 1.00 SH ZINC	4	2
24	72063268	WASHER #10 W FLAT ANSI B27.2Z	10	1, 2
25	72066535	CLAMP-LOOP .38 VINYL COVERED 0.28 HOLE	6	2, 3
26	72601119	BOLT-SHLDR .25X .38	2	3
27	72060703	CAP SCR .25-20 .50 SH BLK OXIDE	8	2, 3
28	72063049	WASHER .25 LOCK	8	2, 3
29	72063144	WASHER-SS .50 LOCK TYPE 304	6	4
30	72602168	CAP SCR .50-13X .88 HH SS	6	4
31	72602210	CAP SCR .25-20X 9.00 HH GR5 Z	1	5
32	72060003	CAP SCR .25-20X .88 HH GR5 Z	4	6
33	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	4	6
34	72601995	CAP SCR .25-20X 2.00 HH SS	2	6
35	72062194	NUT-SS .25-20 NYLOC	2	6
36	72062109	NUT .31-18 HEX NYLOCK	3	6
37	72066582	CLAMP-LOOP 1.25 CUSHIONED	1	6
38	72063002	WASHER .31 FLAT	3	6
39	72060023	CAP SCR .31-18X .75 HH GR5 Z	1	6
40	72060030	CAP SCR .31-18X 2.25 HH GR5 Z	2	6
41	72062104	NUT .25-20 HEX NYLOCK	5	5, 6
42	72063001	WASHER .25 FLAT	12	3, 5, 6
43	72602138	STUD .50-20X 2.25 DBL .50-13 GR8 STL	4	7
44	72063132	WASHER .50 FLAT ASTM F436	4	7
45	72062108	NUT .50-20 HEX CENTER LOCKING	4	7
46	72053762	ELBOW-M STR/90/M JIC 6 8	1	8
47	72532355	ADPTR-M STR/M JIC 6 6	1	8
48	72532359	ADPTR-M STR/M JIC 10 8	2	8
49	77441718	HARNESS-S4 SP CRANE	1	9
50	77040742	CONTROLLER- CRANE MODULE S4	1	9
51	70735198	TRANSM-RAD W/ LCD CMD.CTRL	1	9
52	70735199	RECEIVER-RAD CAN BUS CMD.CTRL	1	9
53	99906928	DWG-BOOM ASM 10600L-12600L S5	1	
54	99906927	DWG-BASE ASM 10600-12600 S5	1	
55	51728769	CYL-5.75/2.50 27.87S 42.05CC S5	1	

**Crane Assembly 10600-32 & 12600-32 (99906929) PARTS LIST CONTINUED**

56	70571196	HOIST-PLANETARY 7000 LB LINE PULL	1	
57	70580235	WIRE ROPE ASM-GALV.44X120ft XXIPS	1	
58	51728716	FLIP SHEAVE ASM 10600-12600 S5	1	
59	77040823	CORD REEL ASM- SENSING CMD.CTRL	1	
60	60146843	BRKT-CORD REEL MNT CMD.CTRL	1	
61	51728833	SNATCH BLOCK- DWNHL COMB ASM 10K-12K	1	
62	60147814	COVER-VLV BANK ALL CRANE HYD	1	
63	70190007	PIN-TYPE AB 2.00 X 11.88 SS	2	
64	70190025	PIN-TYPE AB 2.00X 8.75 SS	1	
65	52723030	PIN-TYPE M 1.50X 3.38	1	
66	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN	3	
67	72661543	PIN-QUICK 316-10QP	3	
68	60109337	RETAINER PLT-PIN 3.00 DIA	1	
69	60030590	WEAR PAD-RND 0.56X 2.44X .03	6	
70	60146295	PLATE-ANGLE STEEL 3.50 IN	2	
71	70190004	RETAINER PLT-PIN 0.50 X 3.00 DIA SS	6	
72	70735082	HOOK-SWVL 7T BBRG	1	
73	60030624	ROLLER-CABLE GUIDE 0.31X 1.00X 7.75	1	
74	60147807	GUIDE-HOIST CABLE 10600-12600	1	
75	60030255	SHEAVE- 9.00 POLYMER	1	
76	60030614	SPACER-A2B BRKT	2	
77	77041863	SWITCH-LIMIT DT04-4P CONN	1	
78	52728671	WLDMT- A2B BRKT	1	
79	60133634	SLEEVE-TYPE C .63X .81X .31	2	
80	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	1	1
81	72661312	CLAMP-LOOP .50 CUSHIONED	1	6
REV. INITIAL RELEASE				

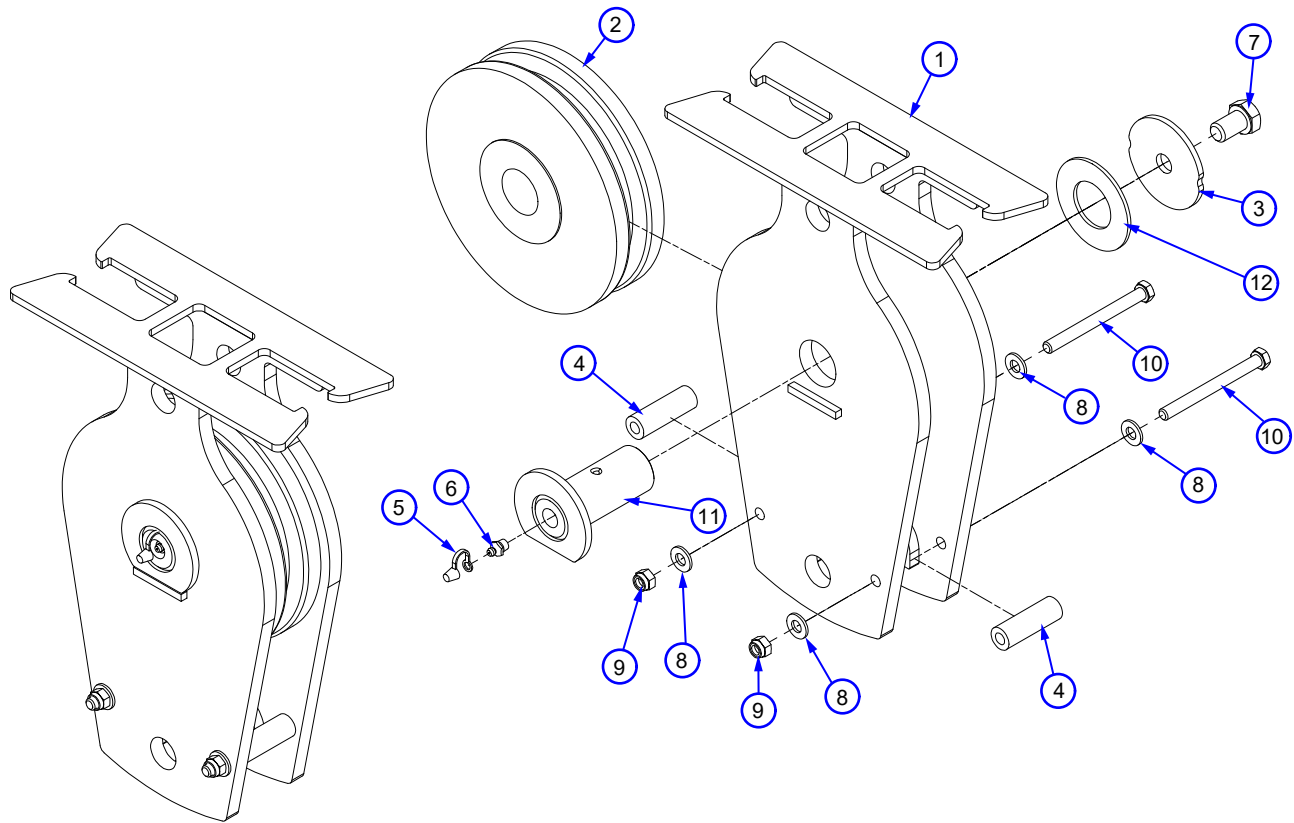
### Gear Rotator, ALL MODELS (71056704)



### GEAR ROTATOR, ALL MODELS (71056704) PARTS LIST

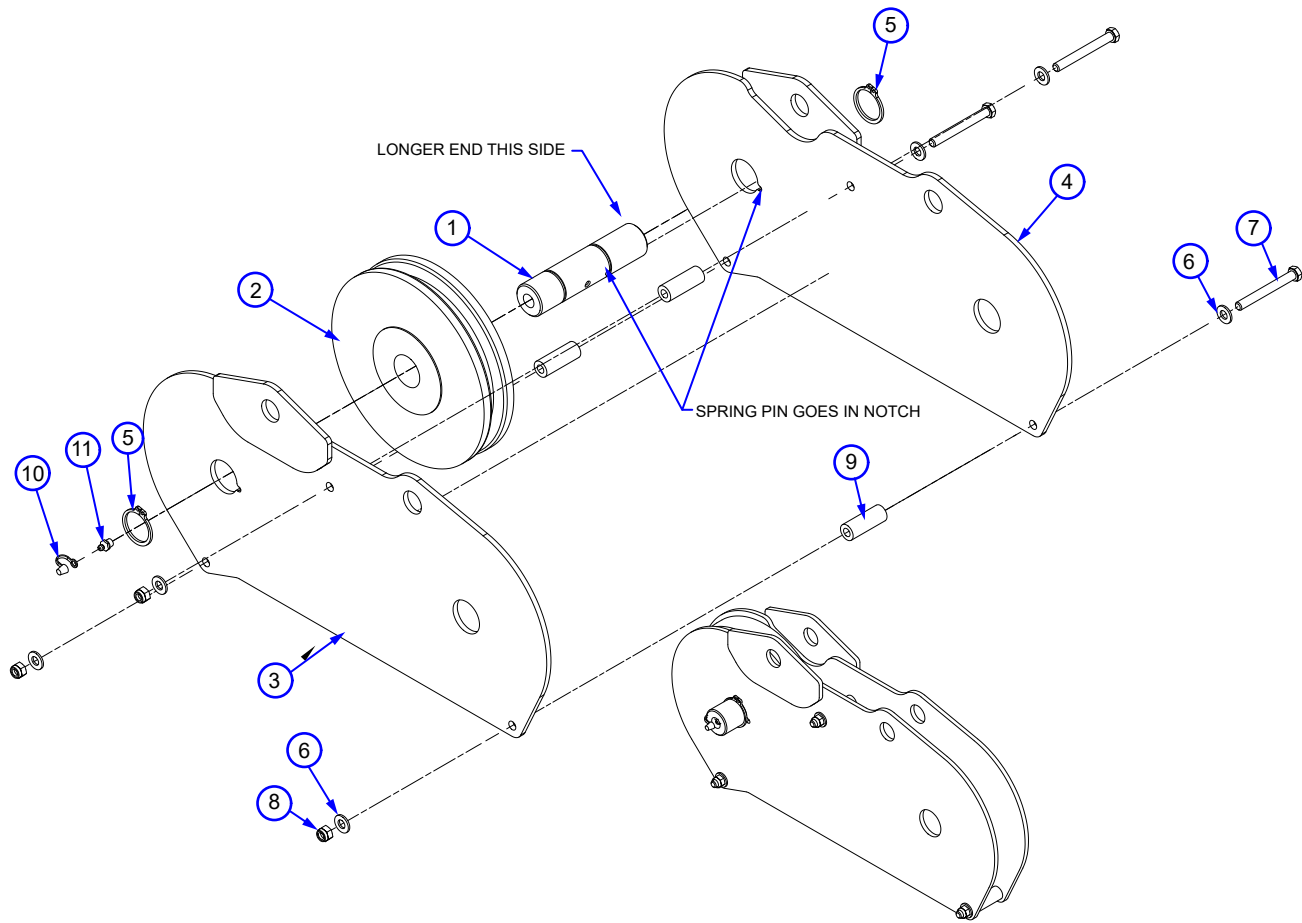
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	71056717	GEAR-WORM 14 INCH	1
2	76535109	RETAINING RINGS FOR BOES 80X4	1
3	76535057	OIL SEAL 40X50X8 FB	1
4	76535056	OIL SEAL 60X75X8 FB	2
5	76490380	O-RING 82.5X2.65	1
6	70055410	BEARING-TAPERED ROLLER 33208/Q	2
REV. INITIAL RELEASE			

# Snatch Block ALL MODELS (51728833)



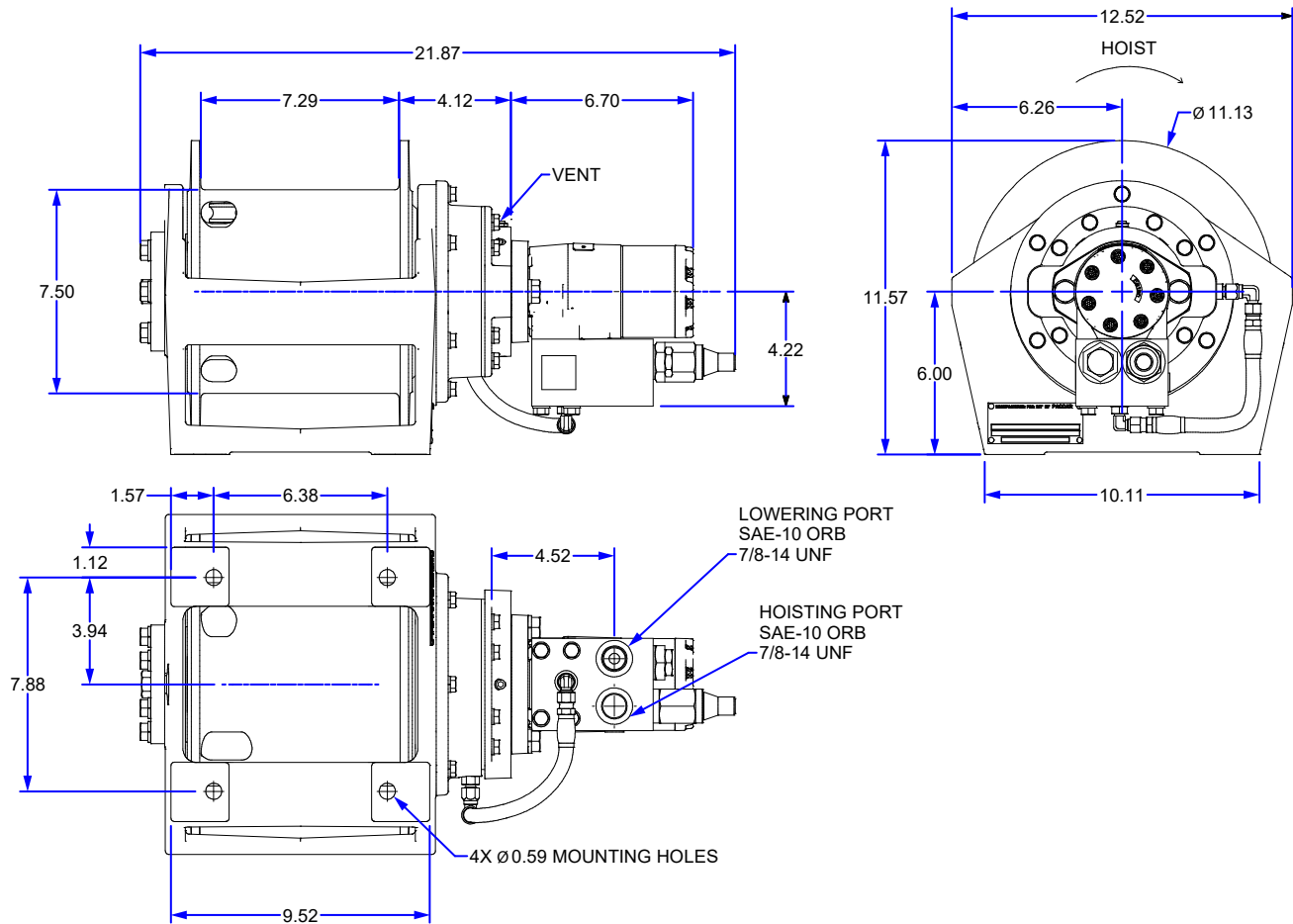
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	52728830	WLDMT-SNATCH BLOCK DWNHL COMB 10K-12K	1
2	60030615	SHEAVE- 8.00 NYLATRON GSM	1
3	60109337	RETAINER PLT-PIN 3.00 DIA	1
4	60030606	NYLON UNTHREADED SPACER 0.75X0.39X2.25	2
5	70034382	CAP-GREASE PRO20 GC-RED	1
6	72053508	ZERK-NPT .12	1
7	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	1
8	72063003	WASHER .38 FLAT	4
9	72062103	NUT .38-16 HEX NYLOCK	2
10	72060056	CAP SCR .38-16X 4.00 HH GR5 Z	2
11	52723030	PIN-TYPE M 1.50X 3.38	1
12	60148095	SPACER- RETAINER PIN 1.56 X 3.00 X 0.13	1
REV. INITIAL RELEASE			

# Flip Sheave ALL MODELS (51728716)

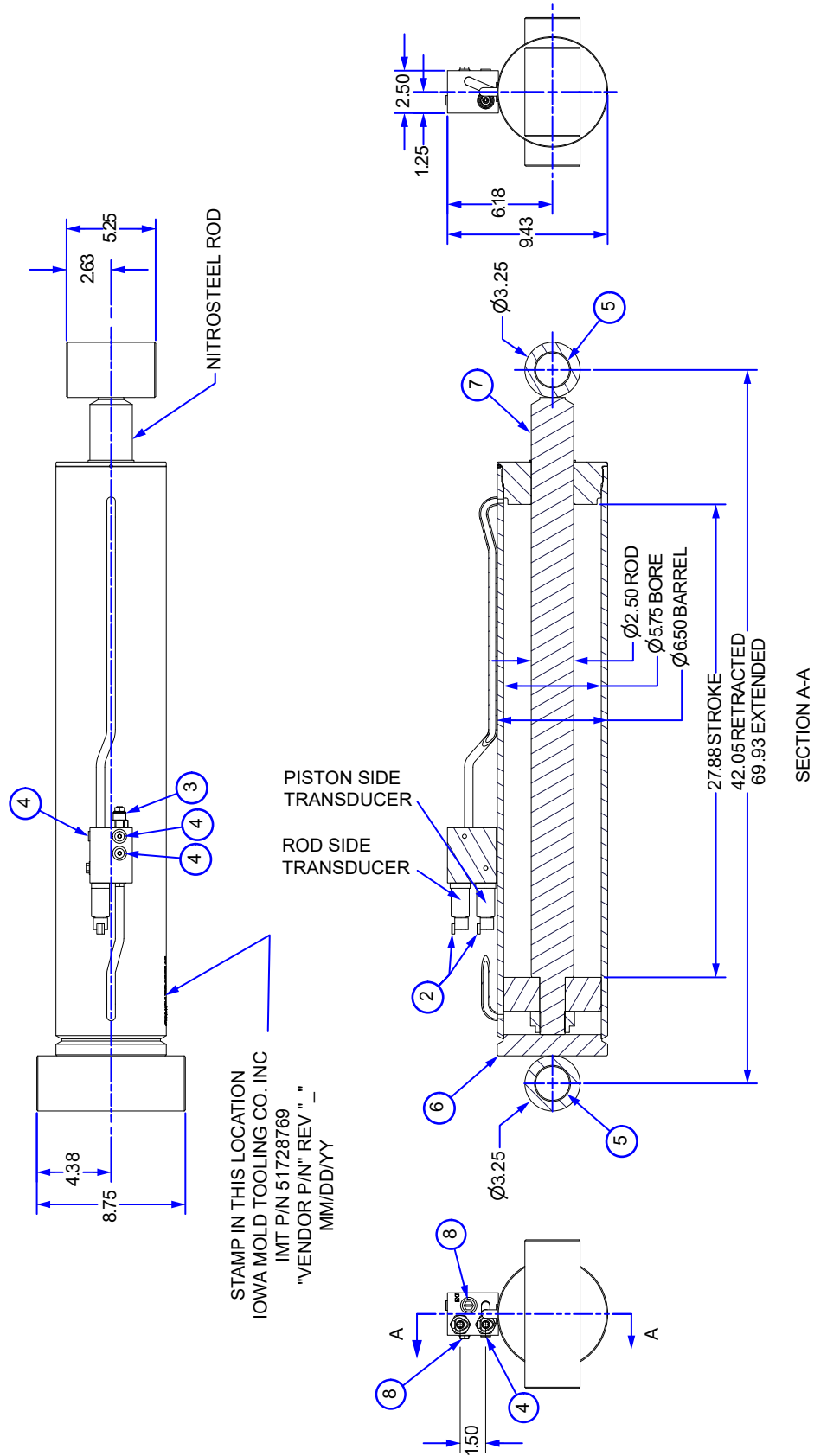


ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	51727745	FLIP SHEAVE PIN ASM 3300-12600	1
2	60030255	SHEAVE- 9.00 POLYMER	1
3	52729025	FLIP SHEAVE ASM SIDEPLATE RH 10600-12600	1
4	52729026	FLIP SHEAVE ASM SIDEPLATE LH 10600-12600	1
5	72661774	RETAINING RING-EXT 1.50 HD YZ	2
6	72063003	WASHER .38 FLAT	6
7	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	3
8	72062103	NUT .38-16 HEX NYLOCK	3
9	60030617	NYLON UNTHREADED SPACER 0.75X0.39X2.00	3
10	70034382	CAP-GREASE PRO20 GC-RED	1
11	72053508	ZERK-NPT .12	1
REV. INITIAL RELEASE			

# Hoist, ALL MODELS (70571196)



# Lower Cylinder, ALL MODELS (51728769)



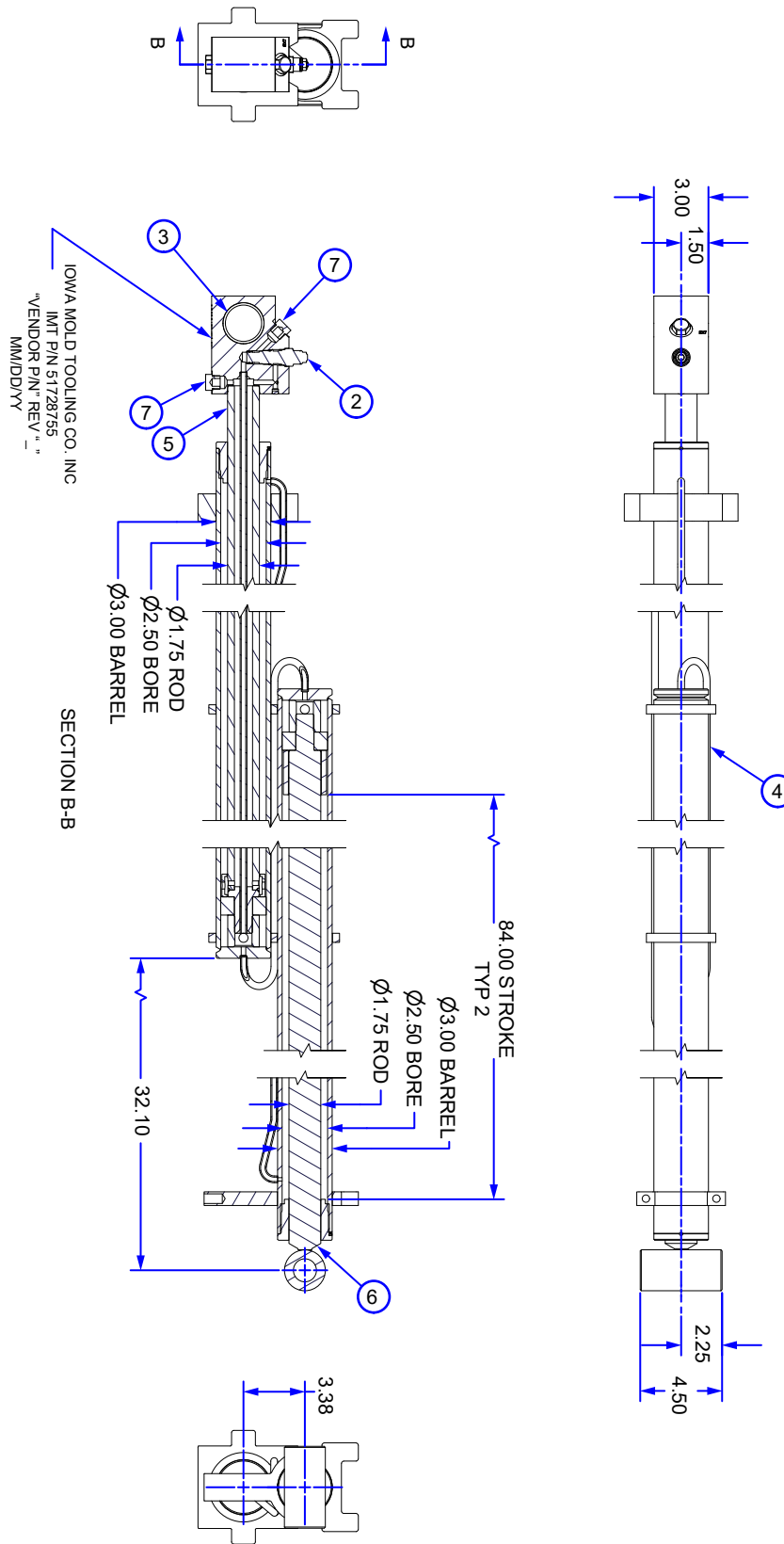
**Lower Cylinder ALL MODELS (51728769) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	94490604	SEAL KIT - 51728769	1
2	77041866	TRANSDUCER-HYD 5000 PSI 4-20 mA DT04-3P	2
3	73540673	VALVE-CBAL SUN CBBB-LAN 3300 PSI	1
4	72533477	PLUG-STR SOC HD STL 4 (.44 THD)	4
5	70034582	BEARING MRP 2.00X2.25X2.00 POLYGON	4
6		BARREL ASSEMBLY	1
7		ROD ASSEMBLY	1
8		PLASTIC PLUG, SAE O-RING #06	2
REV. INITIAL RELEASE			

**NOTES:**

1. SEAL KIT NOT SHOWN. (94490604)

# Extension Cylinder 10600-27 & 12600-27 (51728755)



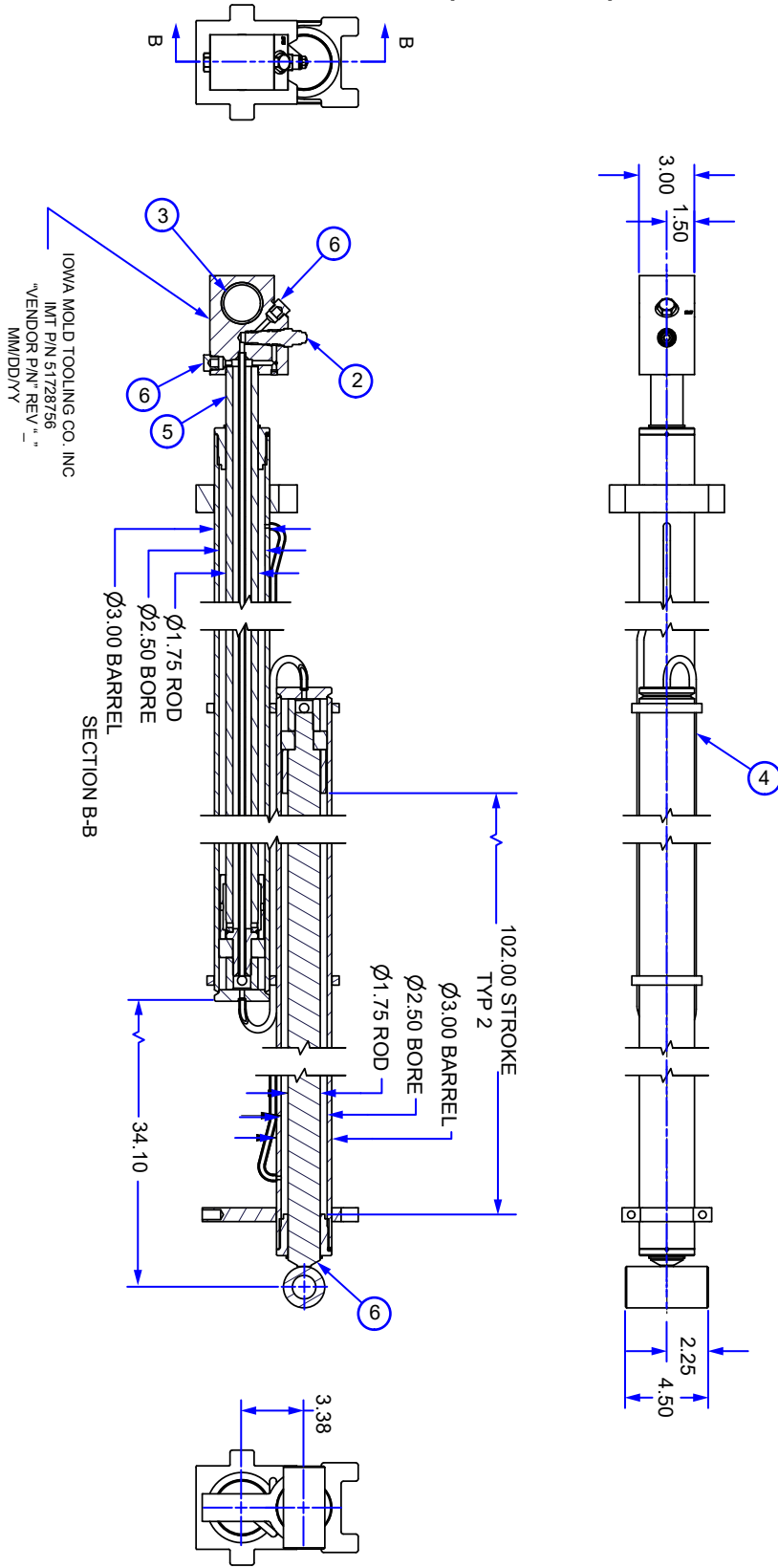
**Extension Cylinder 10600-27 & 12600-27 (51728755) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	94490612	SEAL KIT - 51728755 & 51728756	1
2	73540730	VALVE-CBAL SUN01 CBBB-LJN 3250 PSI	1
3	70034597	BEARING MRP 2.00X2.25X1.50 POLYGON	2
4		BARREL ASSEMBLY	1
5		HOLLOW ROD ASSEMBLY	1
6		SOLID ROD ASSEMBLY	1
7		STEEL PLUG, SAE O-RING #08	2
REV. INITIAL RELEASE			

**NOTES:**

1. SEAL KIT NOT SHOWN. (94490612)

# Extension Cylinder 10600-32 & 12600-32 (51728756)



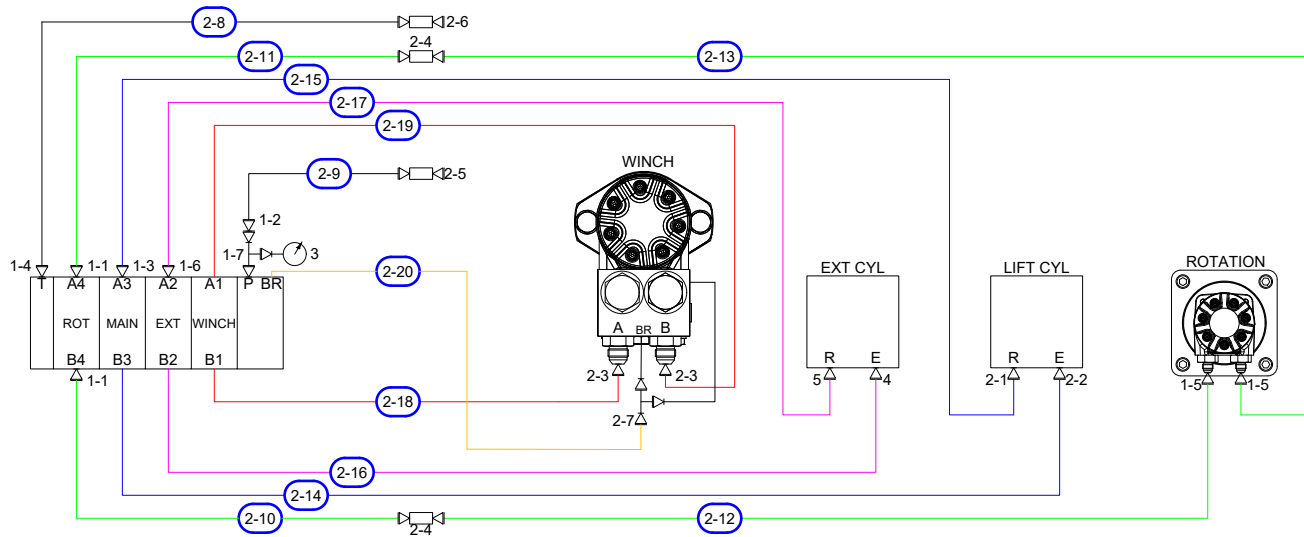
**EXTENSION CYLINDER 10600-32 & 12600-32 (51728756) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT
1	94490613	SEAL KIT - 51728755 & 51728756	1	
2	73540730	VALVE-CBAL SUN01 CBBB-LJN 3250 PSI	1	
3	70034597	BEARING MRP 2.00X2.25X1.50 POLYGON	2	
4		BARREL ASSEMBLY	1	
5		HOLLOW ROD ASSEMBLY	1	
6		SOLID ROD ASSEMBLY	1	
7		UNITIZED PISTON ASSEMBLY	2	1
8		UNITIZED HEAD ASSEMBLY	2	1
REV. INITIAL RELEASE				

**NOTES:**

1. SEAL KIT NOT SHOWN. (94490613)

## Hydraulic Schematic SP, ALL MODELS (99906979)



### NOTES:

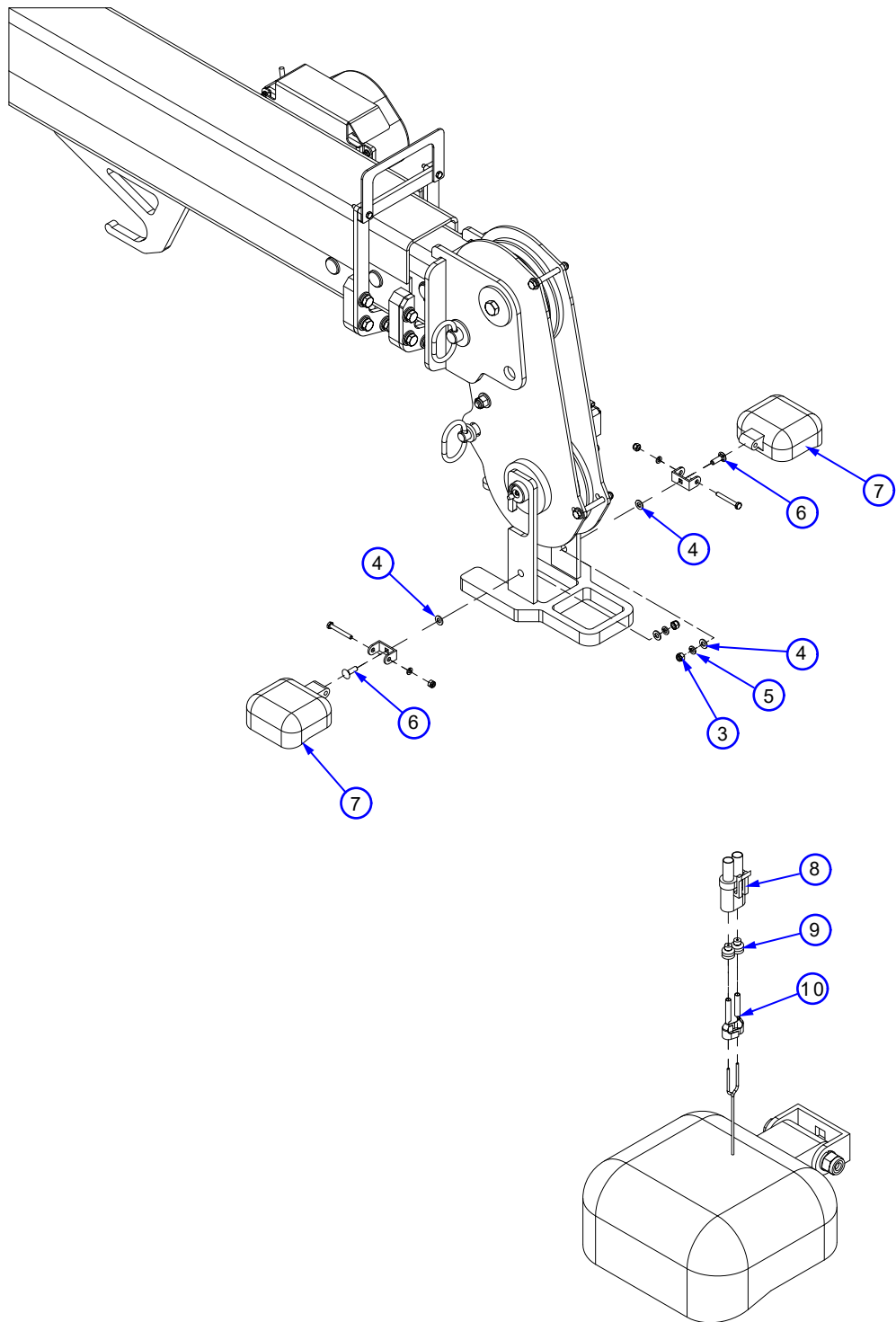
1. SLEEVE HOSES 2-10 & 2-11 TOGETHER USING SLEEVE 2-21
2. SLEEVE HOSES 2-14 & 2-15 TOGETHER USING SLEEVE 2-21
3. SLEEVE HOSES 2-8, 2-9, 2-16, & 2-17 INDIVIDUALLY USING SLEEVE 2-23
4. SLEEVE HOSES 2-18, 2-19, & 2-20 TOGETHER USING SLEEVE 2-22

**Hydraulic Schematic SP, ALL MODELS (99906979) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	91728802	KIT-HYD BASE ASM 7600-12600	1
1-1	72532356	ADPTR-M STR/M JIC 8 6	2
1-2	72532658	ELBOW-M JIC/90/F JIC SW 8 8	1
1-3	72532670	ELBOW-M JIC/45/F JIC 8 8	1
1-4	72533507	ELBOW-M STR/90/M JIC 8 10	1
1-5	72533613	ADPTR-M STR/M JIC 10 6	2
1-6	72534401	ELBOW-M JIC/45/F JIC 6 6	1
1-7	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1
2	91728985	KIT-HYD SP CRANE ASM 10600-12600	1
2-1	72053762	ELBOW-M STR/90/M JIC 6 8	1
2-2	72532355	ADPTR-M STR/M JIC 6 6	1
2-3	72532359	ADPTR-M STR/M JIC 10 8	2
2-4	72534527	SWIVEL-M JIC/90/M JIC 6 6	2
2-5	72533648	SWIVEL-M JIC/90/M JIC 8 8	1
2-6	72534412	SWIVEL-M JIC/90/M JIC 10 10	1
2-7	72534582	TEE-STL STR/JIC/JIC 4 4 4 RUN	1
2-8	51397080	HOSE-FJ .62 X 30.00 (10-10) 100R17	1
2-9	51396017	HOSE-FJ .50 X 30.00 (8-8) 100R16	1
2-10	51490589	HOSE-FJ .38 X 24.00 (6-6) 100R17	1
2-11	51396886	HOSE-FZ .38 X 25.00 (6-6) 100R17	1
2-12	51490590	HOSE-FF .38 X 18.00 (6-6) 100R17	1
2-13	51490591	HOSE-FF .38 X 22.00 (6-6) 100R17	1
2-14	51490626	HOSE-FJ .38 X 34.50 (6-6) 100R17	1
2-15	51490592	HOSE-FZ .50 X 37.50 (8-8) 100R17	1
2-16	51490029	HOSE-FJ .38 X 33.00 (6-6) 100R17	1
2-17	51397266	HOSE-FZ .38 X 33.50 (6-6) 100R17	1
2-18	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1
2-19	51397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1
2-20	51395878	HOSE-FZ .25 X 34.00 (4-4) 100R17	1
2-21	60350185	SLEEVE-HOSE NHS-159 X 18 CUT & SEALED	2
2-22	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	1
2-23	60350186	SLEEVE-HOSE NHS-159 X 28 CUT & SEALED	4
3	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1
4	72535033	ELBOW-M STR/90/M JIC 8 6 XL	1
5	72532356	ADPTR-M STR/M JIC 8 6	1
REV. INITIAL RELEASE			

**Section - 6** **Electrical & Lighting**

# Boom Tip Floodlight Kit, ALL MODELS (99906730)



WIRING DETAIL

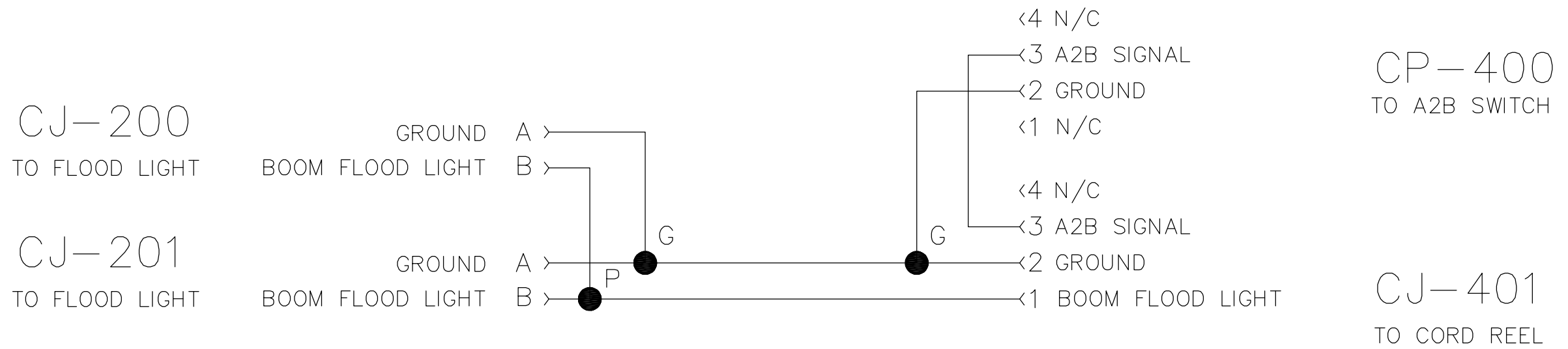
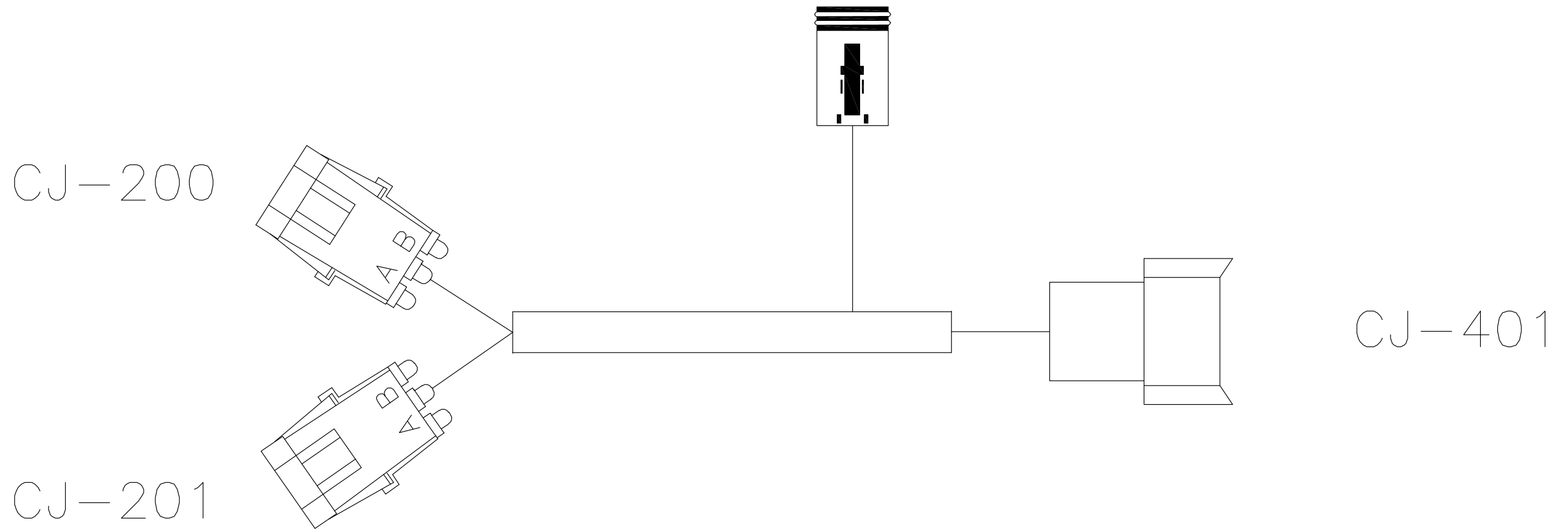
**Boom Tip Floodlight Kit, ALL MODELS (99906730) PARTS LIST**

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 (NOT SHOWN)	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 (NOT SHOWN)	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	-	-

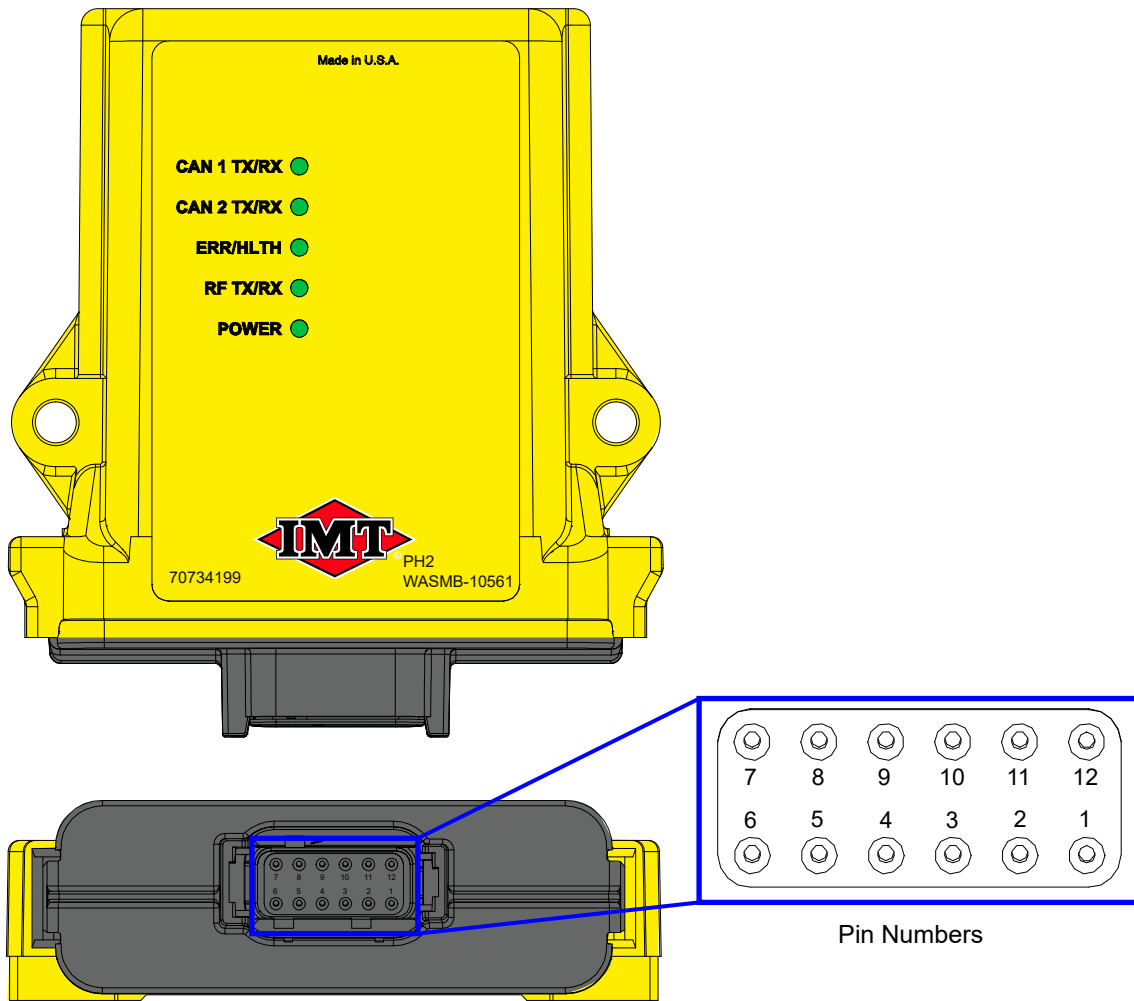
LOCATOR CODE: CJ-401				DEUTSCH: DT04-4P		
TERM: 0460-202-16141				WEDGE: W4P		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
1	BRN	16	BOOM FLD LT	TO	CJ-200	B
2	YEL/GRN	16	GROUND	TO	SPL G	-
3	BLUE	16	A2B SIG	TO	CP-400	3
4	-	-	-	TO	-	-

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

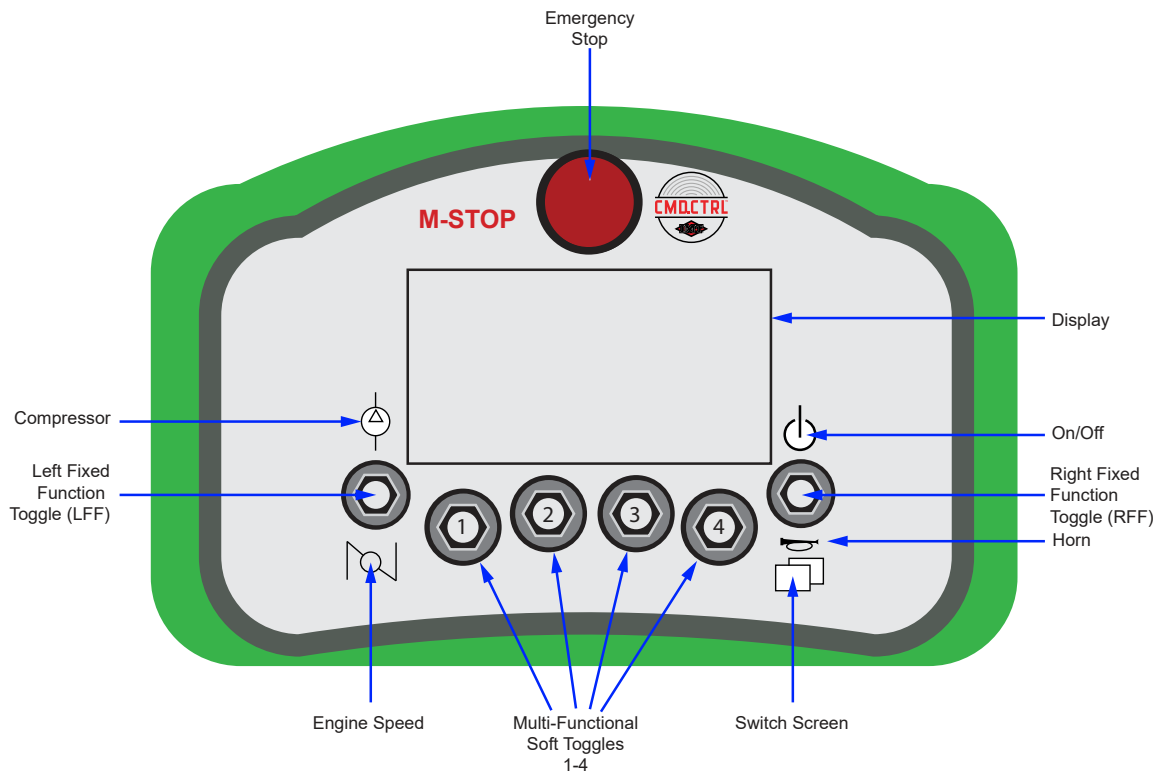
**Section - 7** **CMD.CTRL**

# Base Unit (70735199)



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

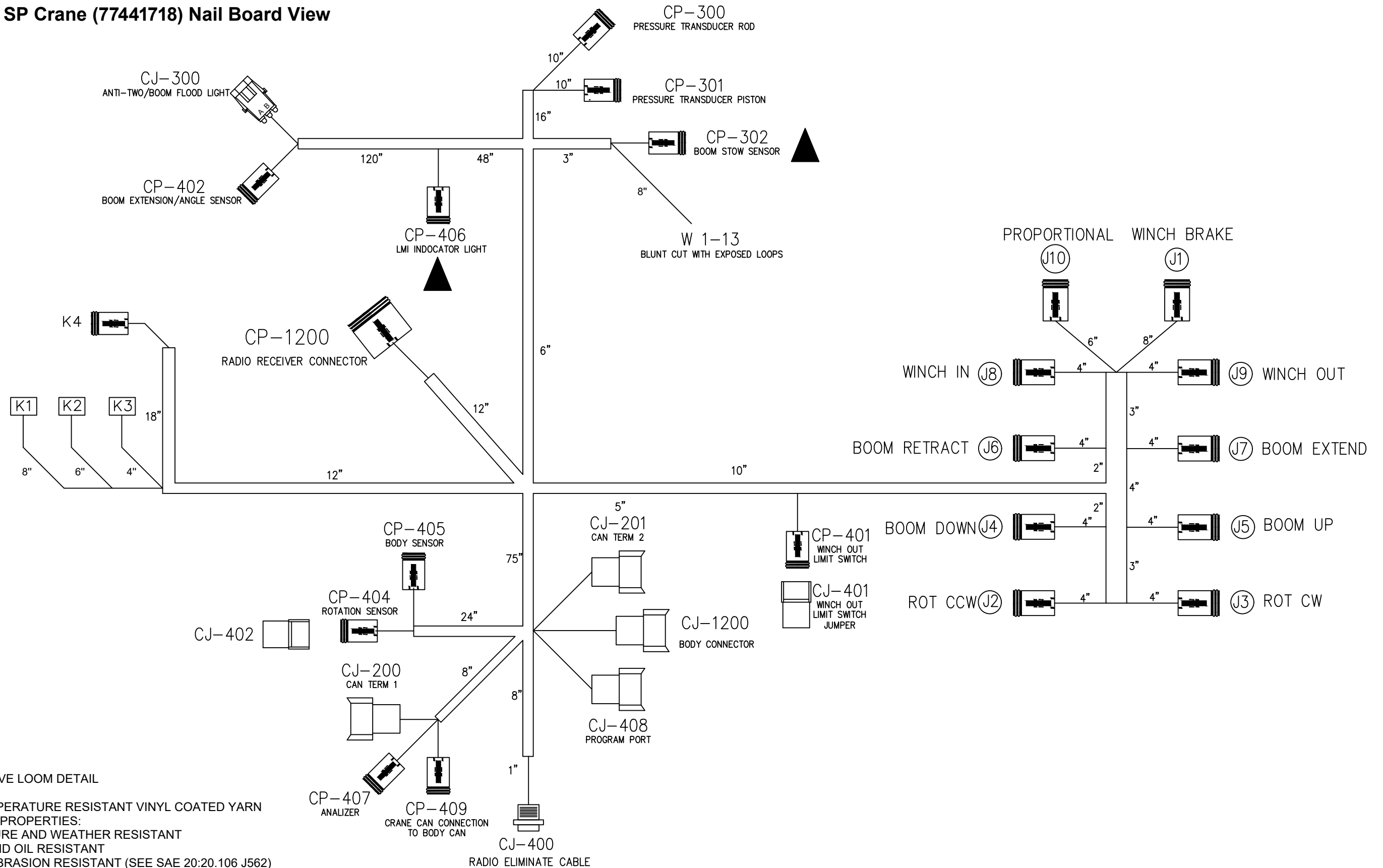
# Handheld Remote, Toggles & Icons (70735198)



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

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

# Harness S5 SP Crane (77441718) Nail Board View



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

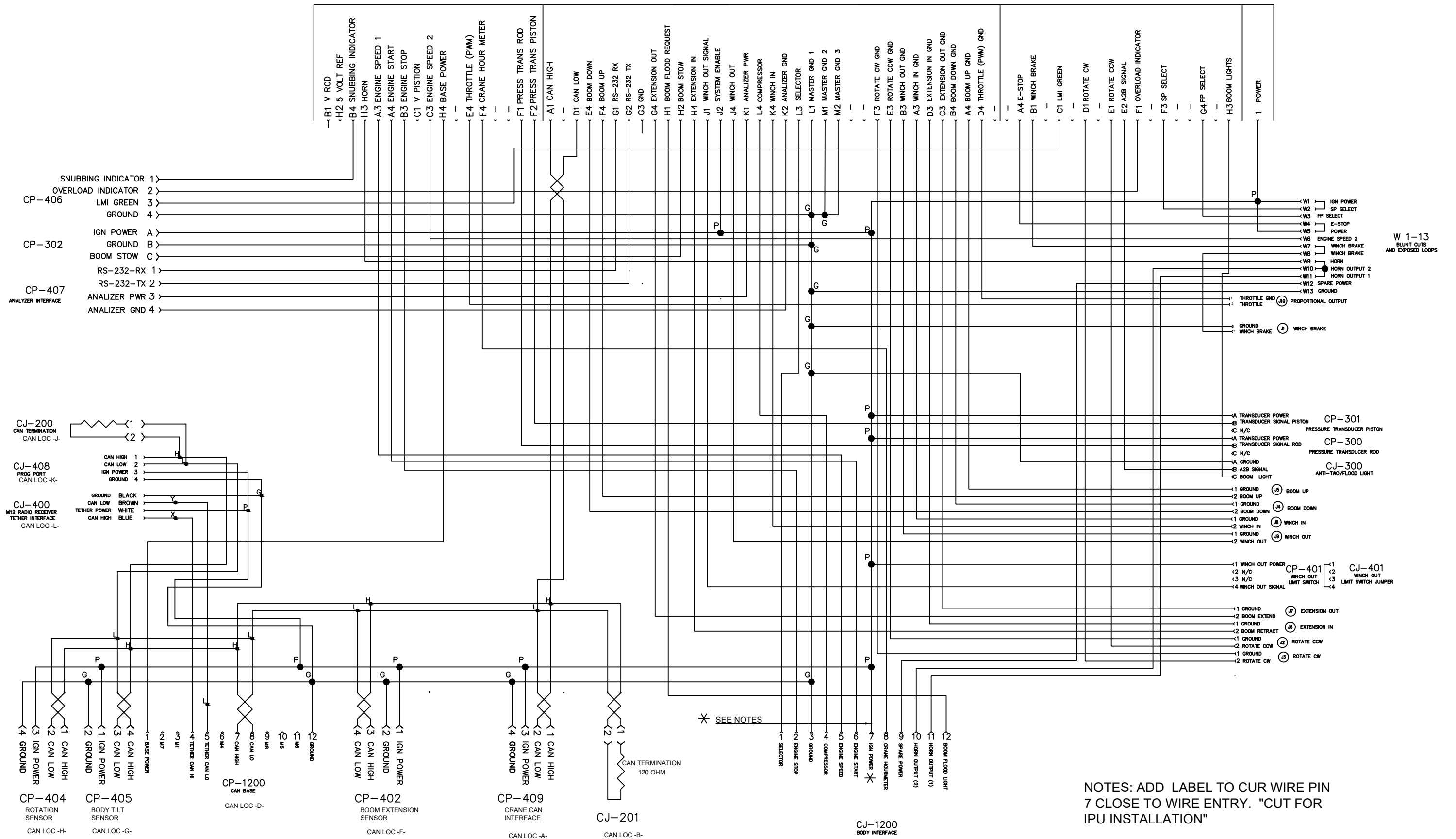
# Harness S5 SP Crane (77441718) Schematic View

K1

K2

K3

K4



# Harness S5 SP Crane (77441718) Circuit Chart View

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 S5 SP Crane (77441718) Circuit Chart View

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 S5 SP Crane (77441718) Circuit Chart View

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.

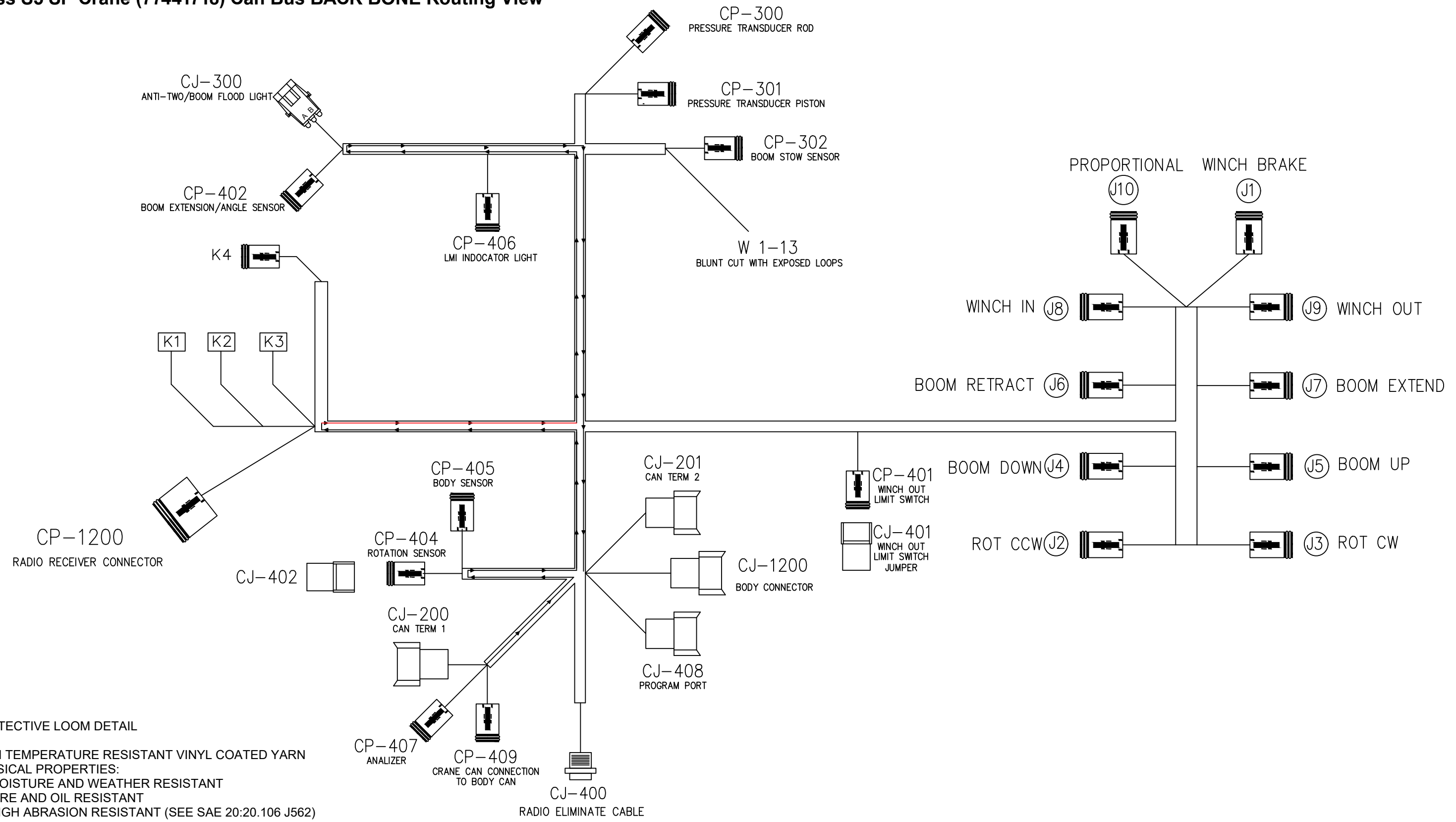
6. SEAL ALL BLUNT CUT WIRES WITH HEAT SHRINK.

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 S5 SP Crane (77441718) Can Bus BACK BONE Routing View



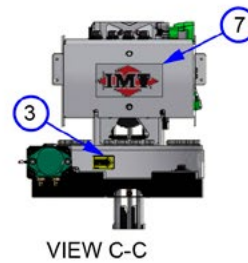
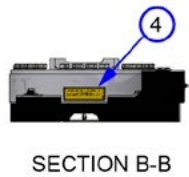
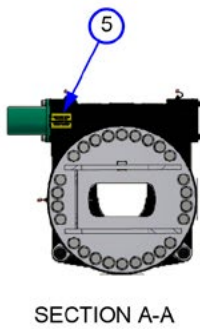
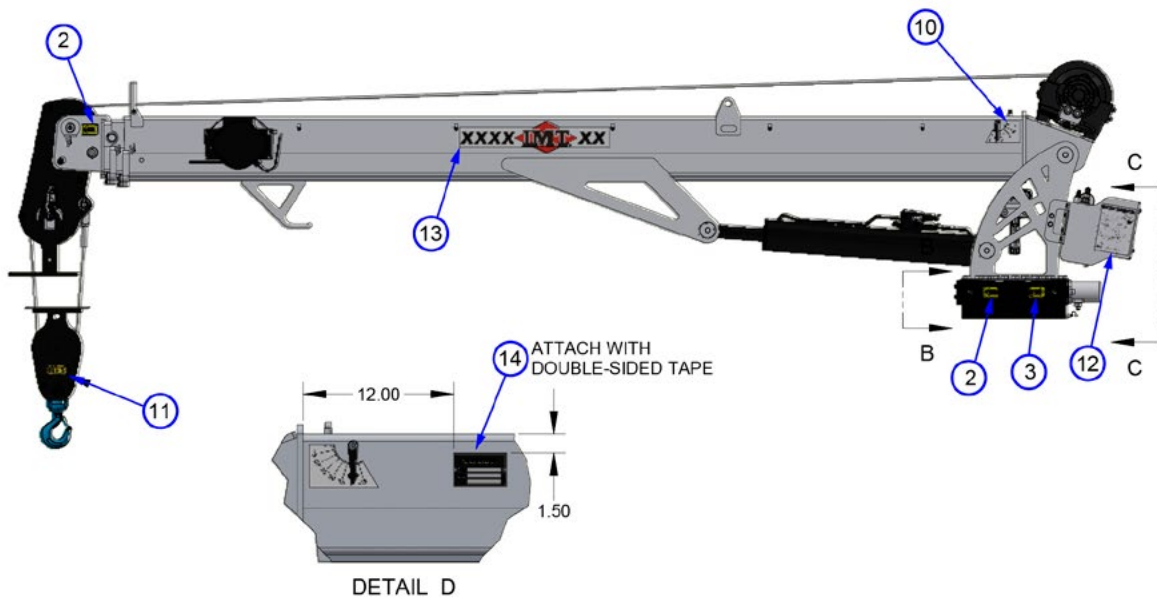
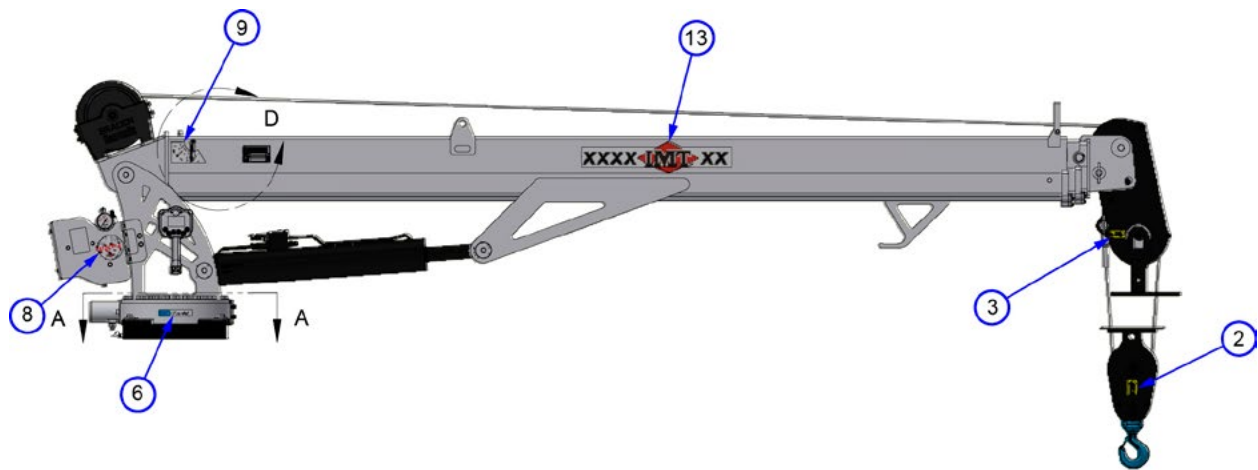
**PROTECTIVE LOOM DETAIL**

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

**Section - 8**

**General Information**

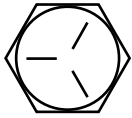

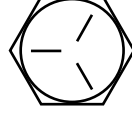

# Decal Placement (99906970)



**DECAL PLACEMENT (99906970) PARTS LIST**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	95728994	DECAL KIT-COMMON 7600-12600	1	
2.	70391612	DECAL-GREASE WEEKLY (LEFT)	3	1
3.	70391613	DECAL-GREASE WEEKLY (RIGHT)	3	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.	70490435	DECAL-CMD.CTRL LOGO	1	1
9.	71399136	DECAL-ANGLE IND RH SIII	1	1
10.	71399137	DECAL-ANGLE IND LH SIII	1	1
11.	70490577	DECAL-LOAD BLOCK RATING 6.3 TONS 10600-12600	1	
12.	70490545	DECAL-CAP CHART 10600-27	2	
	70490546	DECAL-CAP CHART 10600-32		
	70490547	DECAL-CAP CHART 12600-27		
	70490548	DECAL-CAP CHART 12600-32		
13.	70490570	DECAL-ID-10600-27	2	
	70490571	DECAL-ID-10600-32		
	70490572	DECAL-ID-12600-27		
	70490573	DECAL-ID-12600-32		
14.	70029119	PLACARD-SERIAL NUMBER	1	
REV. INITIAL RELEASE				

## Thread Torque Charts - Imperial


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

REV. 20210504

REV. 20210504

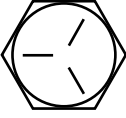

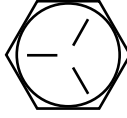

**NOTES:**

1. TIGHTENING TORQUES PROVIDED ARE MID-RANGE.
2. CONSULT BOLT MANUFACTURER'S PARTICULAR SPECIFICATIONS WHEN PROVIDED.
3. USE FLAT WASHERS OF EQUAL STRENGTH.
4. ALL TORQUE MEASUREMENTS ARE GIVEN IN FT-LB
5. TORQUE VALUES SPECIFIED ARE FOR BOLTS WITH RESIDUAL OILS OR NO SPECIAL LUBRICANTS APPLIED. IF SPECIAL LUBRICANTS OF HIGH STRESS ABILITY, SUCH AS NEVER-SEEZ COMPOUND GRAPHITE AND OIL, MOLYBDENUM DISULFIDE, COLLOIDAL COPPER OR WHITE LEAD ARE APPLIED, MULTIPLY THE TORQUE VALUES IN THE CHARTS BY THE FACTOR .90. THE USE OF LOCTITE DOES NOT AFFECT THE TORQUE VALUES LISTED ABOVE.

** WARNING**

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

## Thread Torque Charts - Metric


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

REV. 20210504

REV. 20210504

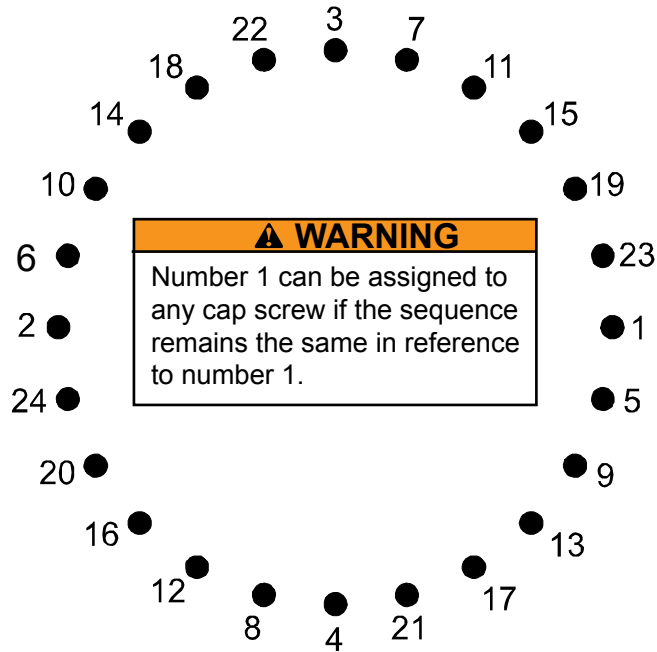
**NOTES:**

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



**An Oshkosh Corporation Business**

**IOWA MOLD TOOLING CO., INC.**

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Tel: 641.923.3711

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



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