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Manual # 99906698 REV E

Series 4 6000 22' Telescopic 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

Read this manual and on-product labels carefully. Learn how to inspect, use, test, and maintain this equipment correctly, and strictly follow all safety information and instructions contained in this manual and on the equipment, as well as any requirements of local, state, and federal law, industry standards, and any other applicable safety procedures. Failure to do so could result in death, serious personal injury, property damage, or damage to the equipment.



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 *S4 Telescopic Crane Operator's Manual* (IMT 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.

These OSHA regulations can be found at:

https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=67

* 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.



OSHA Website

Section - 2

Specifications

General Specifications

GENERAL SPECIFICATIONS	
	6000
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.)	39,000 ft-lb (5.39 tm)
HORIZONTAL REACH (From centerline of rotation.)	21'-10" (9.65 m)
RETRACTED REACH (SINGLE LINE)	12'-4" (3.75 m)
EXTENDED REACH (SINGLE LINE)	21'-11" (6.67 m)
RETRACTED REACH (DOUBLE LINE)	11'-9" (3.58 m)
EXTENDED REACH (DOUBLE LINE)	21'-4" (6.51 m)
HYDRAULIC EXTENSIONS (2)	59" (149 cm)
	56" (143 cm)
LIFTING HEIGHT	23'-9" (7.24 m)
CRANE WEIGHT	1,250 lb (567 kg)
CRANE STORAGE HEIGHT	36.6" (92.96 cm)
MOUNTING SPACE REQUIRED (Crane base.)	19.8 x 21.6" (50.3 cm x 54.9 cm)
OPTIMUM PUMP CAPACITY	10 gpm (221 L/min)
SYSTEM OPERATING PRESSURE	3000 psi (206.8 Bar)
CENTER OF GRAVITY Horizontal from centerline of rotation: Vertical from bottom of crane base:	42.6" (108.3 cm)
	17.6" (44.7 cm)
TIE-DOWN BOLT PATTERN (4 bolts)	14.75" x 14.75" (37.47 cm x 37.47 cm)
ROTATIONAL TORQUE	8,525 ft-lb (1.3 tm)

Performance / Chassis Specifications

PERFORMANCE SPECIFICATIONS	
	6000
ROTATION	Specifications: 400°
	Speed: 26 Seconds
LOWER BOOM ELEVATION	Specifications: -10° to +80°
	Speed: 8.2 Seconds (Extend) 5.6 Seconds (Retract)
EXTENSION CYLINDERS (2)	Specifications: 59" x 56" (150 cm & 143 cm)
	Speed: 7.2 Seconds (Extend) 4.1 Seconds (Retract)
WINCH SPEED	52 ft/min (15.8 m/min)
CHASSIS SPECIFICATIONS	
CHASSIS STYLE	Conventional Cab
BODY STYLE	Dominator™ I Minimum
RBM*	600,000 in-lb (69.13 kg-m)
FRAME SECTION MODULUS-MINIMUM	14.2 cubic inches (232.7 cc)
GVW	18,000 lb Minimum (6,805 kg)

ALL FUNCTION SPEEDS (EXCEPT WINCH LINE SPEED) ASSUME 90% HYDRAULIC EFFICIENCY AT 10 GPM.

*RESISTANCE TO BENDING MOMENT.

POWER SOURCE

PTO DRIVEN - Integral mounted hydraulic pump and PTO application. Other standard power sources may be used. Minimum power required is 23.5* horsepower based on 10 gpm (37.9 L/min) at 3200 PSI (221 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 10 gpm (37.9 L/min.) optimum oil flow at 3200 PSI (221 Bar). It is equipped with a four-section, stack-type, electric, remote control valve with an RF remote-control system with a 40' (12.2 m) radio elimination cable. The system includes a separate hydraulic oil reservoir, return-line filter and control valve.

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.

WINCH

The 3,000 lb (1.360 kg) planetary winch is powered using a high-torque hydraulic motor. The lifting capacity of the winch is 3,000 lb (1.360 kg) one-part line. Maximum two-part line capacity is based on the maximum crane capacity. The winch is equipped with 120 ft (36.6 m) of 3/8" (9.5 mm), 6 x 25 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.

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.

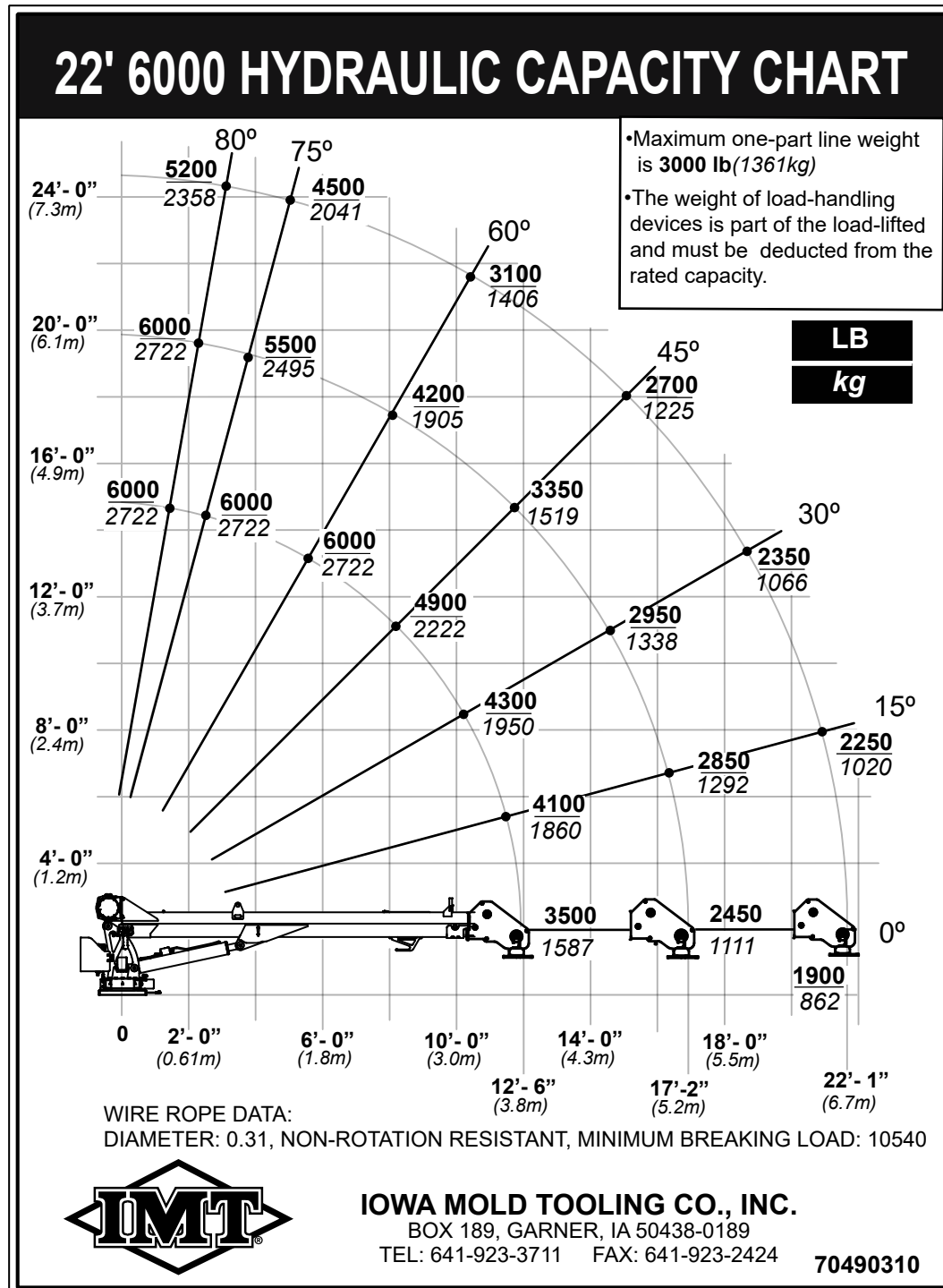
***ALL FUNCTION SPEEDS (EXCEPT WINCH LINE SPEED) ASSUME 90% HYDRAULIC EFFICIENCY AT 10 GPM.**

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

Section - 3

Load Capacity Charts

Load Capacity Chart



Section - 4

Crane Installation

Installation Introduction

GENERAL

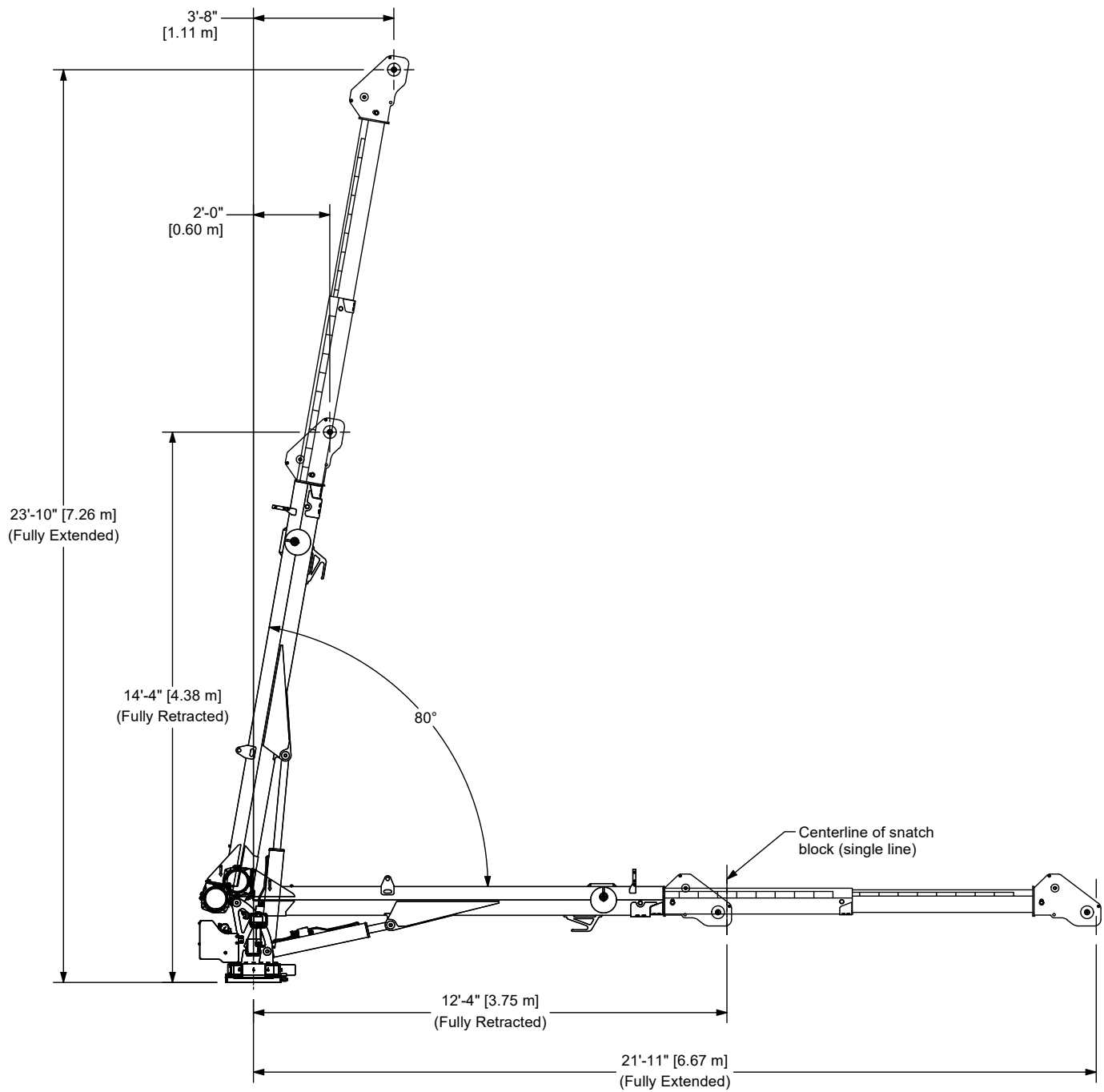
This section contains instructions for the installation of your crane. Prior to installing the crane and hydraulic components, make sure that the chassis is ready to receive the crane. Reinforce the chassis frame as necessary, and install the PTO and pump.

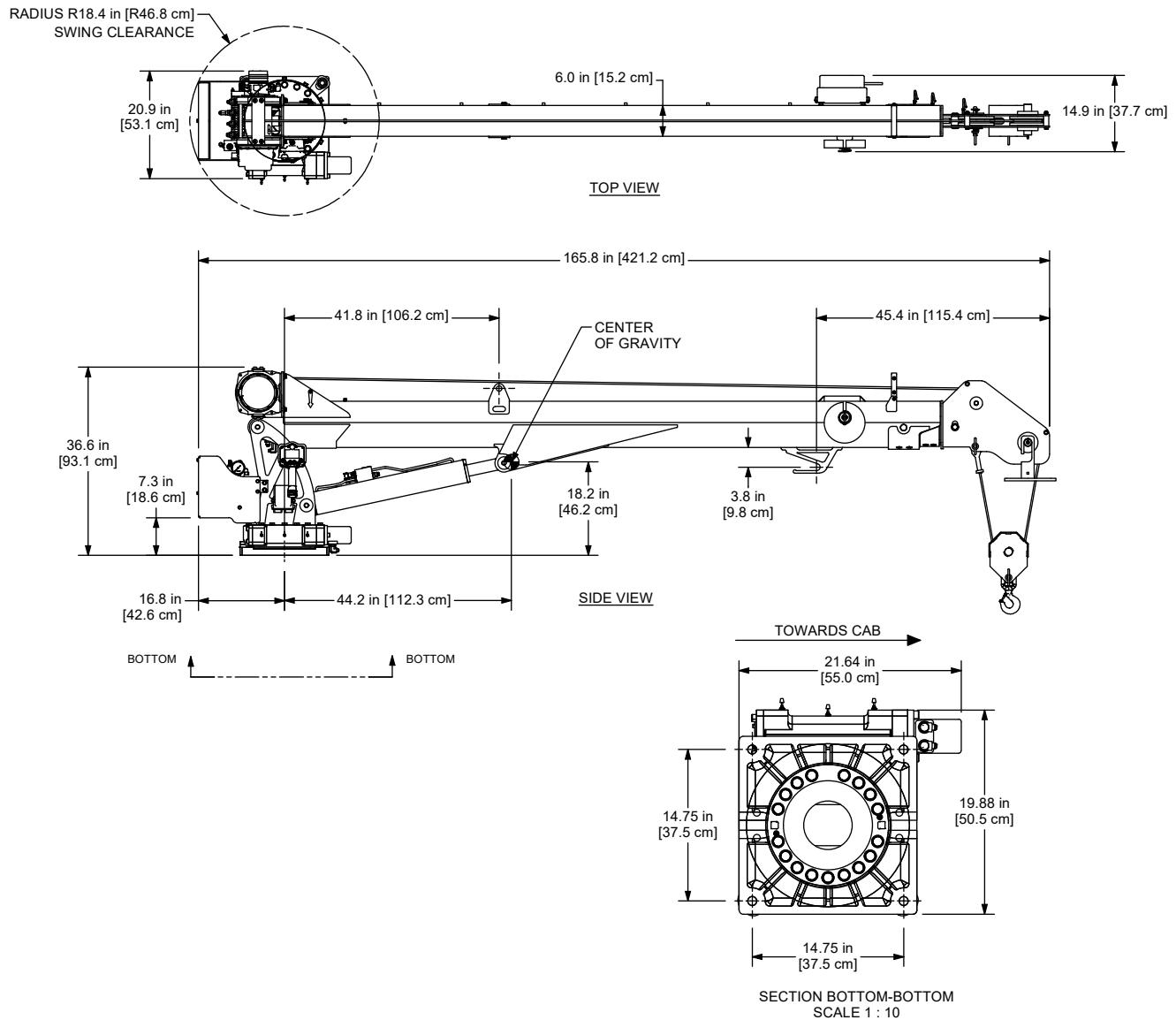
Each installation may vary in components used. It is important to use hoses of proper length, pumps of correct size, and PTO's of adequate speed. Study the applicable installation kit in the parts section before attempting any installation.

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.

6000 - Dimensional Drawings (99906697)



DIMENSIONAL DRAWING (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.

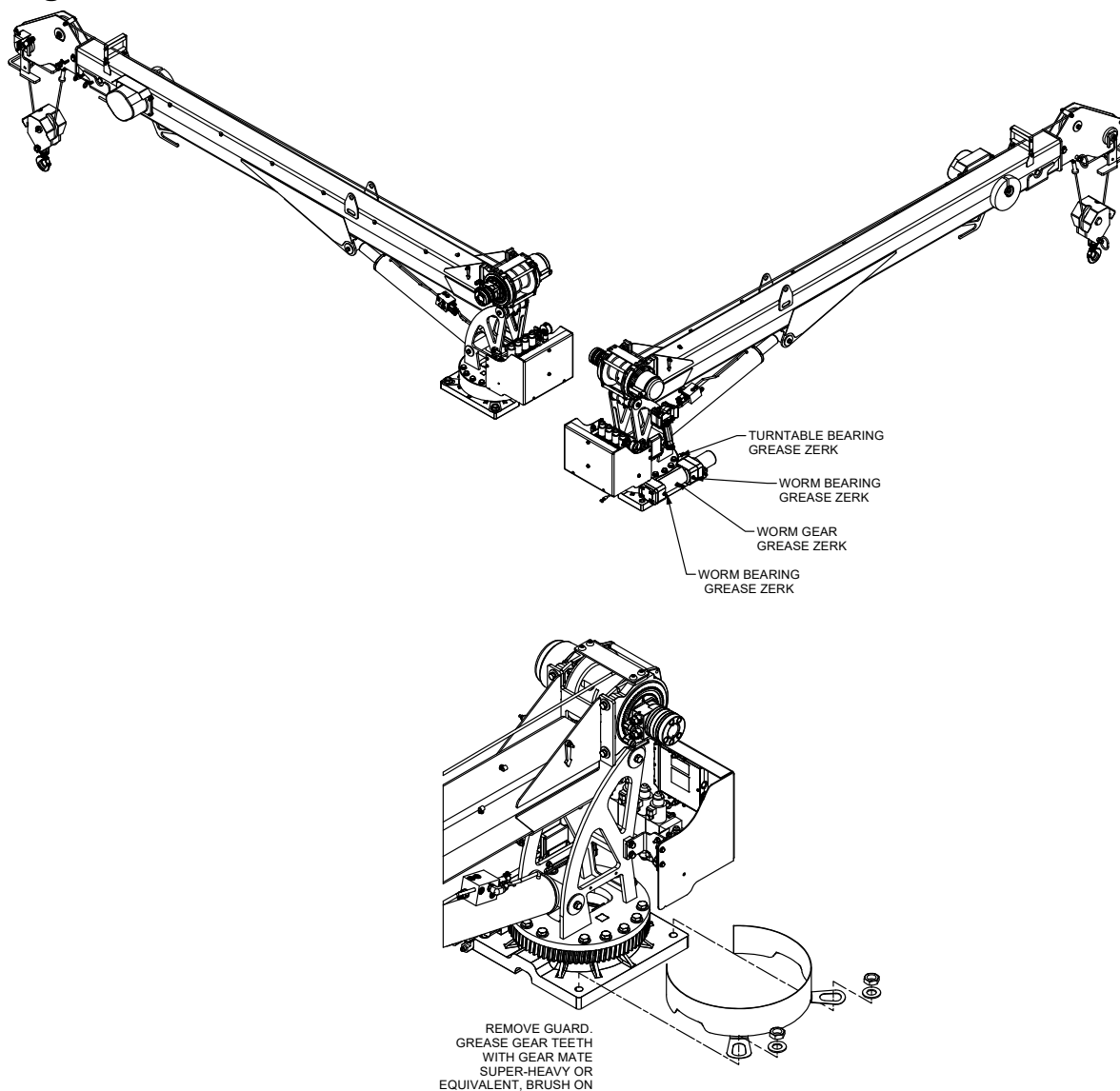
Crane grease zerks must be greased on a weekly basis during normal operating conditions. Under severe operating conditions the zerks must be greased more frequently. Each grease zerk is marked with a decal, "grease weekly", as shown. Rotate the worm gear bearing when greasing the worm gear bearing grease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



Crane worm gear bearing teeth must be lubricated weekly with lubriplate gear mate 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.

**IMT recommended
open-gear compound while rotating crane.
IMT part number: 89086244**

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			
Lower Sheave			
Worm Bearings Grease Zerks (*Rotate crane while greasing)			
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	

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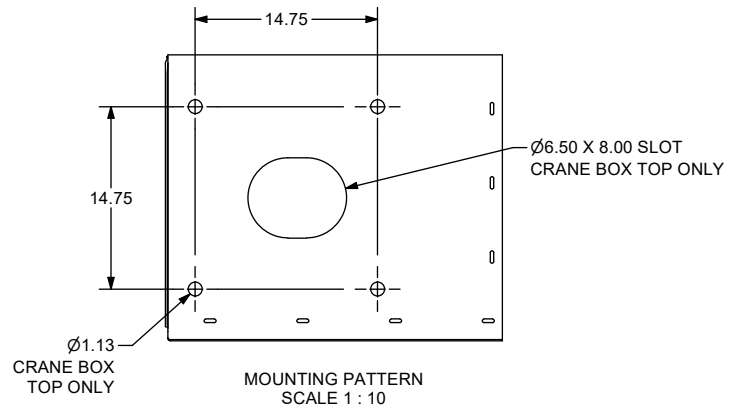
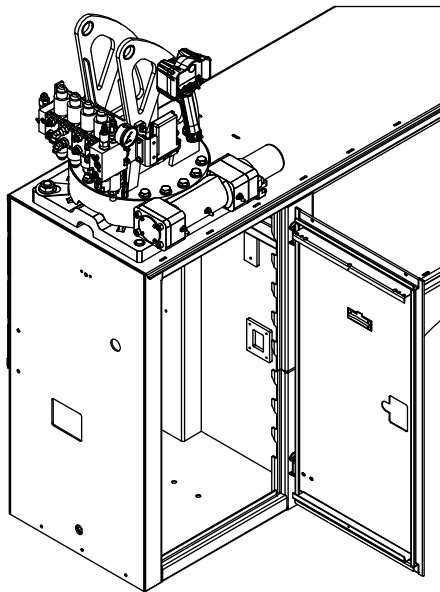
Recommended Spare Parts List

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 normal wear items during the first year of operations.

BASE & MAST(99906695)		
PART NO.	DESCRIPTION	QTY
73051919	MOTOR-HYD 101-2638-009	1
72601482	CAP SCR .62-11X 2.50 HH GR8 Z	14
72060794	CAP SCR .50-13X 1.25 SH PLAIN	2
70034578	BEARING MRP 1.50X1.75X0.50	4
BOOM ASSEMBLY (99906696)		
60030597	WEAR PAD-RND .19X 1.25X .60X .44	2
60030594	WEAR PAD-RND .50X 1.00X .35X 1.00	2
60030593	WEAR PAD-RC 0.19 X 8.00X 4.00	1
60030592	WEAR PAD-RC 0.25 X 8.00X 5.00	1
60030591	WEAR PAD-RND 5000/6000 EXT CYL	1
60030586	WEAR PAD-RND 5000/6000 EXT CYL	2
60030598	WEAR PAD-RC 0.25X5.63X1.38	2
60030599	WEAR PAD-RC 0.25X3.75X1.38	2
ANTI-TWO-BLOCK ASSEMBLY		
77041863	SWITCH-LIMIT DT04-4P CONN	1
RIGGING COMPONENTS (99906697)		
70190002	PIN-TYPE AB 1.50 X 7.25 SS	2
70190001	PIN-TYPE AB 1.50 X 5.75 SS	1
70735100	HOOK-SWVL BBRG 3TON W/LATCH	1
70580228	WIRE ROPE ASM-GALV.31(6X19)X80ft EIPS	1
60030584	SHEAVE- 7.00 POLYMER 1.88 WIDE	1
LOWER CYLINDER (51728246)		
94490370	SEAL KIT-51728246	1
72533477	PLUG-STR SOC HD STL 4 (.44 THD)	4
77041866	TRANSDUCER-HYD 0-5000PSI 4-20mA 2-Wire	1
73540673	CB VALVE	1
70034586	POLYGON BUSHING (BASE)	4
RADIO REMOTE CONTROL & BASE		
70735198	TRANSM-RAD CMD.CTRL W/ LCD	1
70735199	RECEIVER-RAD CMD.CTRL CAN BUS	1
71415460	MAGNET-TELE RAD REM TRANS W SCREW CERVIS	1
EXTENSION CYLINDER (51727693)		
73540730	VALVE-CBAL CBBB-LJN 3250 PSI	1
94490379	SEAL KIT	1

WINCH (70571269)		
32000231	GASKET	1
32000385	SCREW - SET	1
73511461	MOTOR-HYD 3.0CI, 4 BOLT	1
WINCH (70571269) CONTINUED		
PART NO.	DESCRIPTION	QTY.
70735238	BRAKE ASSY, 3000# HOIST	1
VALVE BANK (73735318)		
73540256	COIL-S SERIES FOR 73540397 12VDC DEUTSCH	1
73540253	COIL-FOR 73540252 12VDC DEUTSCH	1

Installation DOM 1 (99906541)



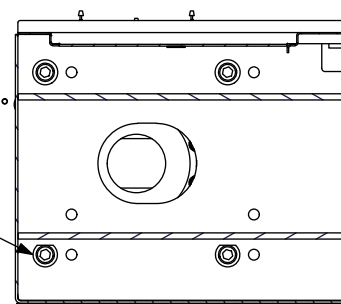
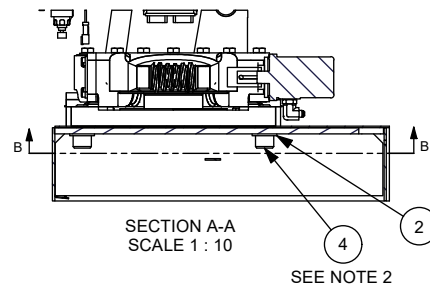
USE LONG BOLTS
OPPOSITE WORM GEAR

SEE NOTE 2 (5)

LEVEL INDICATOR INSTALLED PARALLEL
TO DOOR REINFORCEMENTS

REAR VIEW
SCALE 1 : 14

USE CUT WASHERS WHERE NEEDED TO
CLEAR CRANE COMPARTMENT STRUCTURE



99906541 PARTS LIST

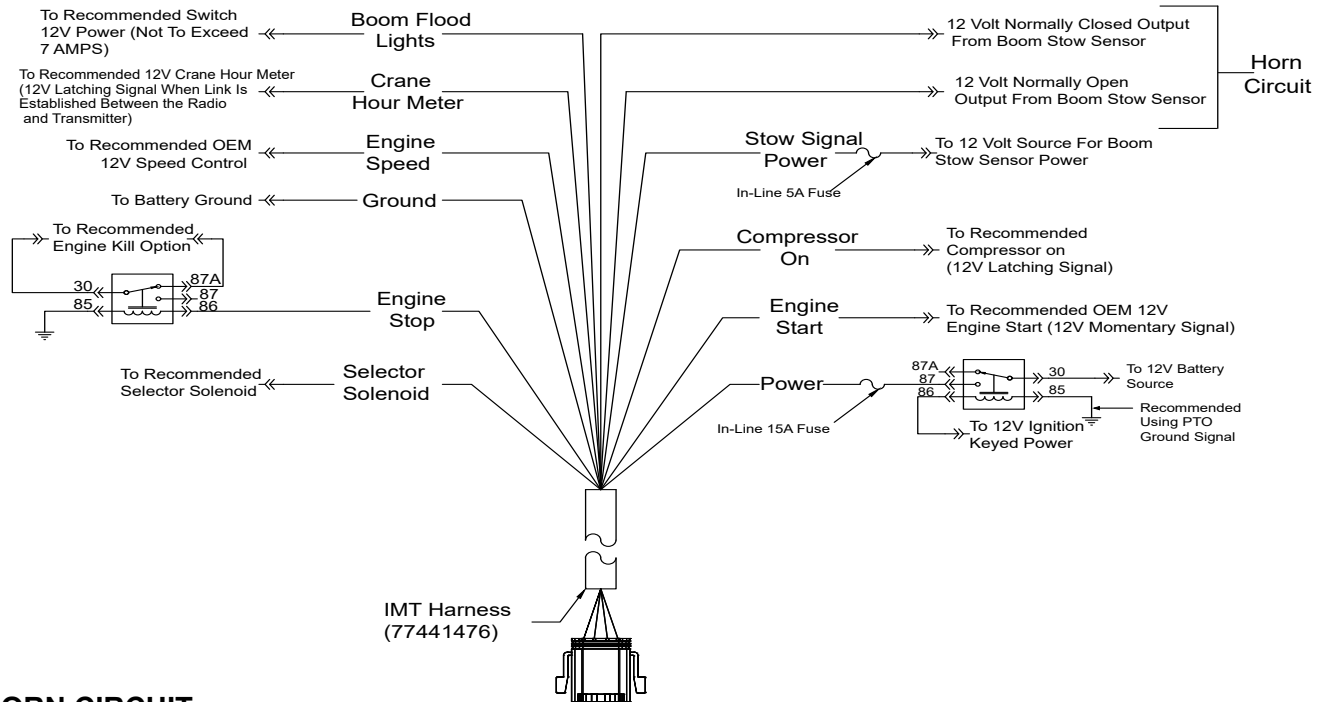
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	72042097	LEVEL INDICATOR LEVEL	1
2.	72063066	WASHER 1.00 FLAT HI STR	4
3.	72063286	WASHER-FLAT 1.00 H ASTM F436 Z-CUT	2
4.	72602151	CAP SCR 1.00- 8X 2.50 SH PLAIN	2
5.	72602167	CAP SCR 1.00- 8X 3.25 SH PLAIN	2
REV. INITIAL RELEASE			

NOTE:

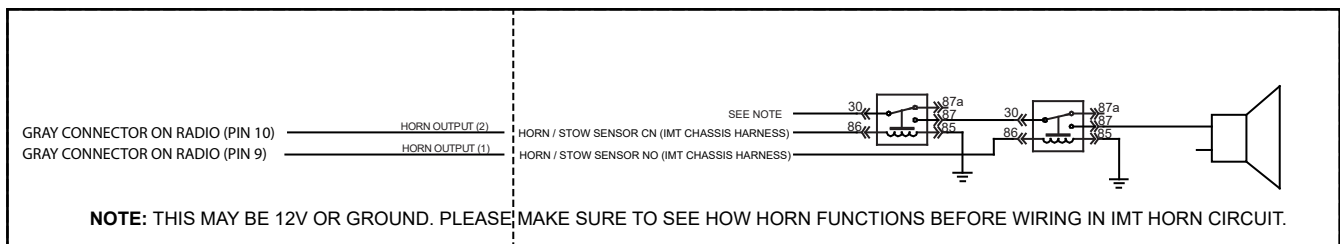
1. THE 2.50" AND 3.25" BOLTS SUPPLIED ARE PART OF THE CRANE INSTALLATION KIT. DETERMINE THE CRANE BOX TOP PLATE THICKNESS PRIOR TO MOUNTING. IF DIFFERENT LENGTH BOLTS ARE REQUIRED THEY MUST BE 1-8, GRADE 8, ZINC COATED, AND OF PROPER LENGTH. ENSURE BOLTS REACH THROUGH ROTATOR BASE WHEN INSTALLED.
2. TORQUE MOUNTING BOLTS TO 680 FT-LB.

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.

With non-factory-installed cranes, a loose hose sleeve is included in the box with the installation kit. After the crane is installed, rotated and placed in the boom support, wrap the hose sleeve around the hoses, then slide sleeve toward the fittings to protect the hoses during rotation.

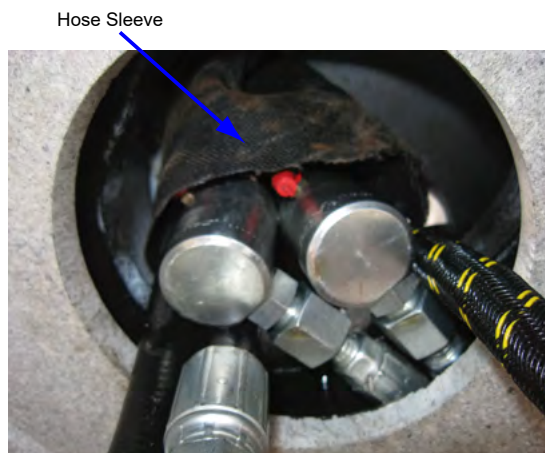
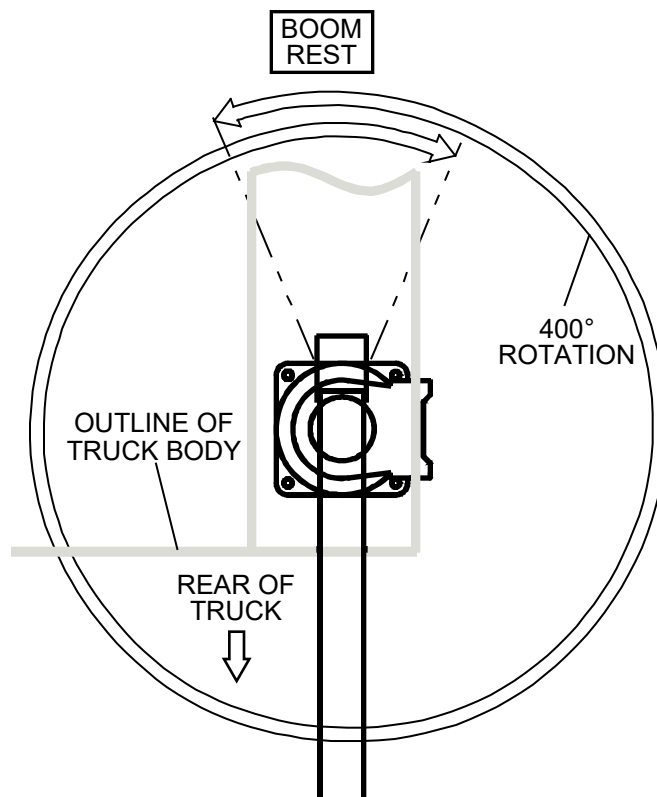


Photo taken looking up from the crane box. Image is for illustrative purposes only, actual crane installation may vary. The pressure, return, and rotation hoses are wrapped in the hose sleeve.

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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:

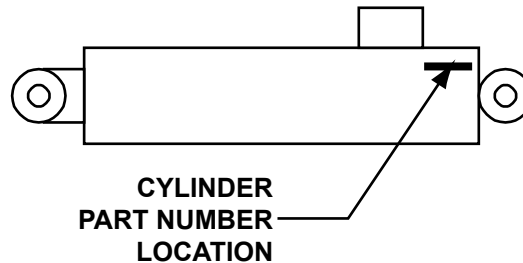
Iowa Mold Tooling Co., Inc.
Box 189, Garner, IA 50438-0189
Telephone: 800-554-4421

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.



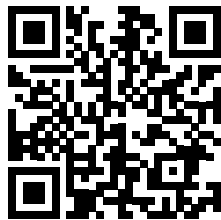
WELDMENT IDENTIFICATION

Each of the major weldments— base, mast, inner boom, outer boom, extension boom, and stabilizer weldments— 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

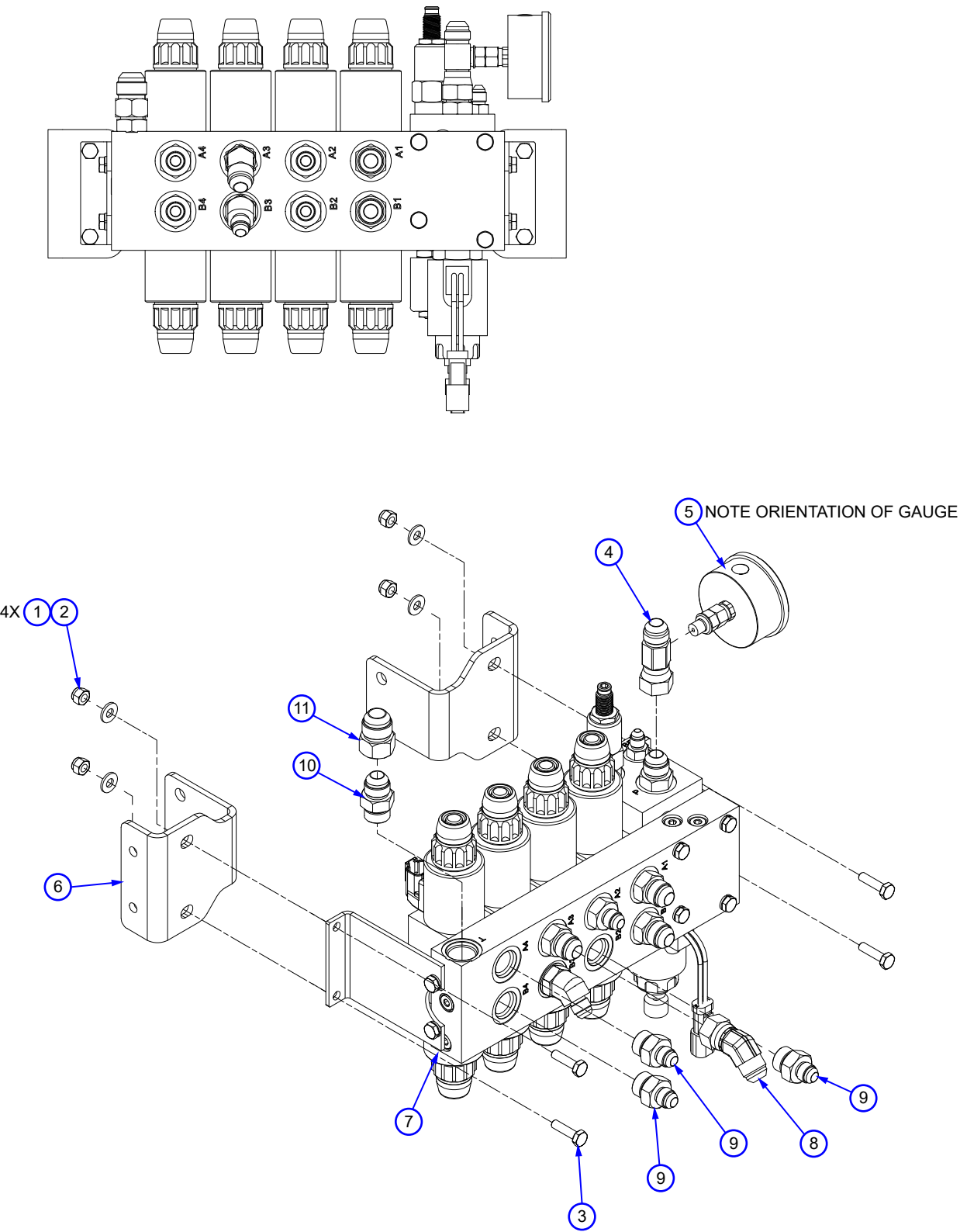
When Ordering Replacement Parts:

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.



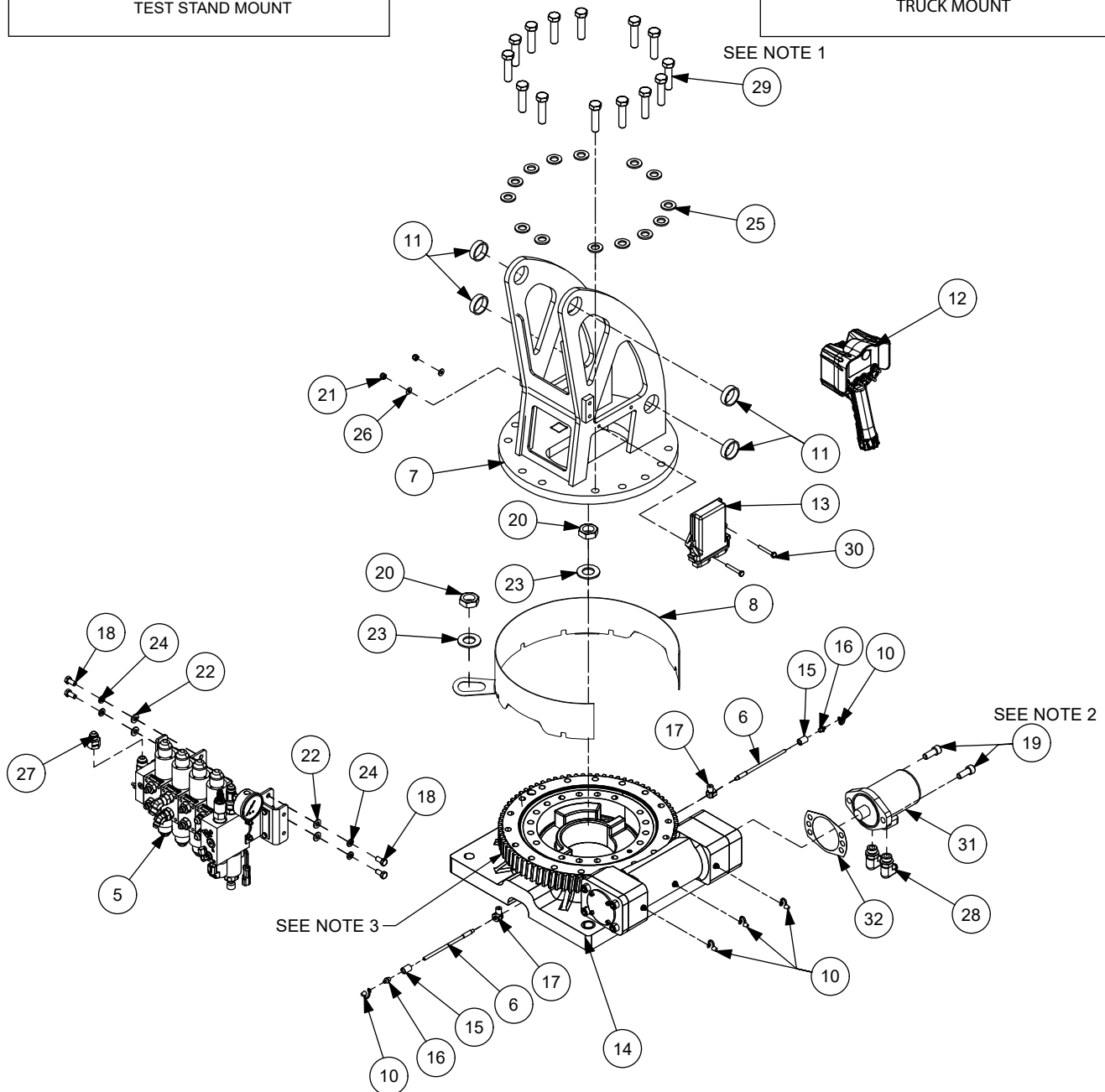
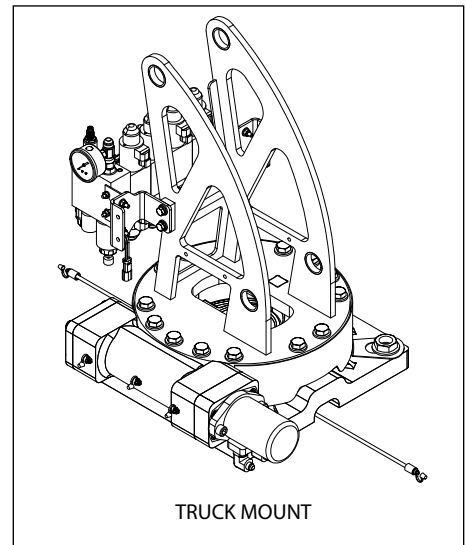
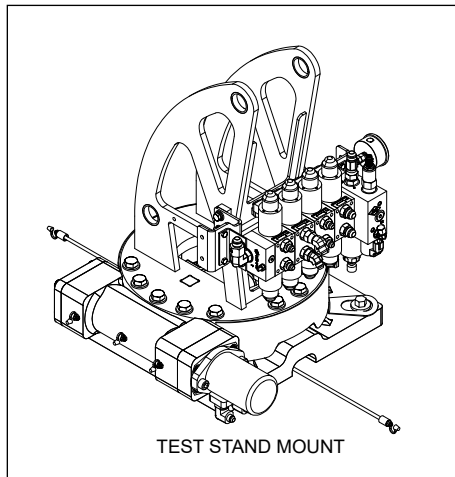
imt.com/parts-service

Valve Bank Assembly SP (99906597)



99906597 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	72063001	WASHER .25 FLAT	4
2	72062104	NUT .25-20 HEX NYLOCK	4
3	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	4
4	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1
5	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1
6	60146300	BRKT-MAST VB 5000/6000	2
7	73735318	VALVE-TELE CRN 4-FUNCTION D03 12V	1
8	72532670	ELBOW-M JIC/45/F JIC 8 8	1
9	72532356	ADPTR-M STR/M JIC 8 6	3
10	72532358	ADPTR-MSTR/MJIC #8 #8	1
11	72534465	ADPTR-M JIC/F JIC 10 8	1
REV.A CN1616			

Base Assembly (99906695)

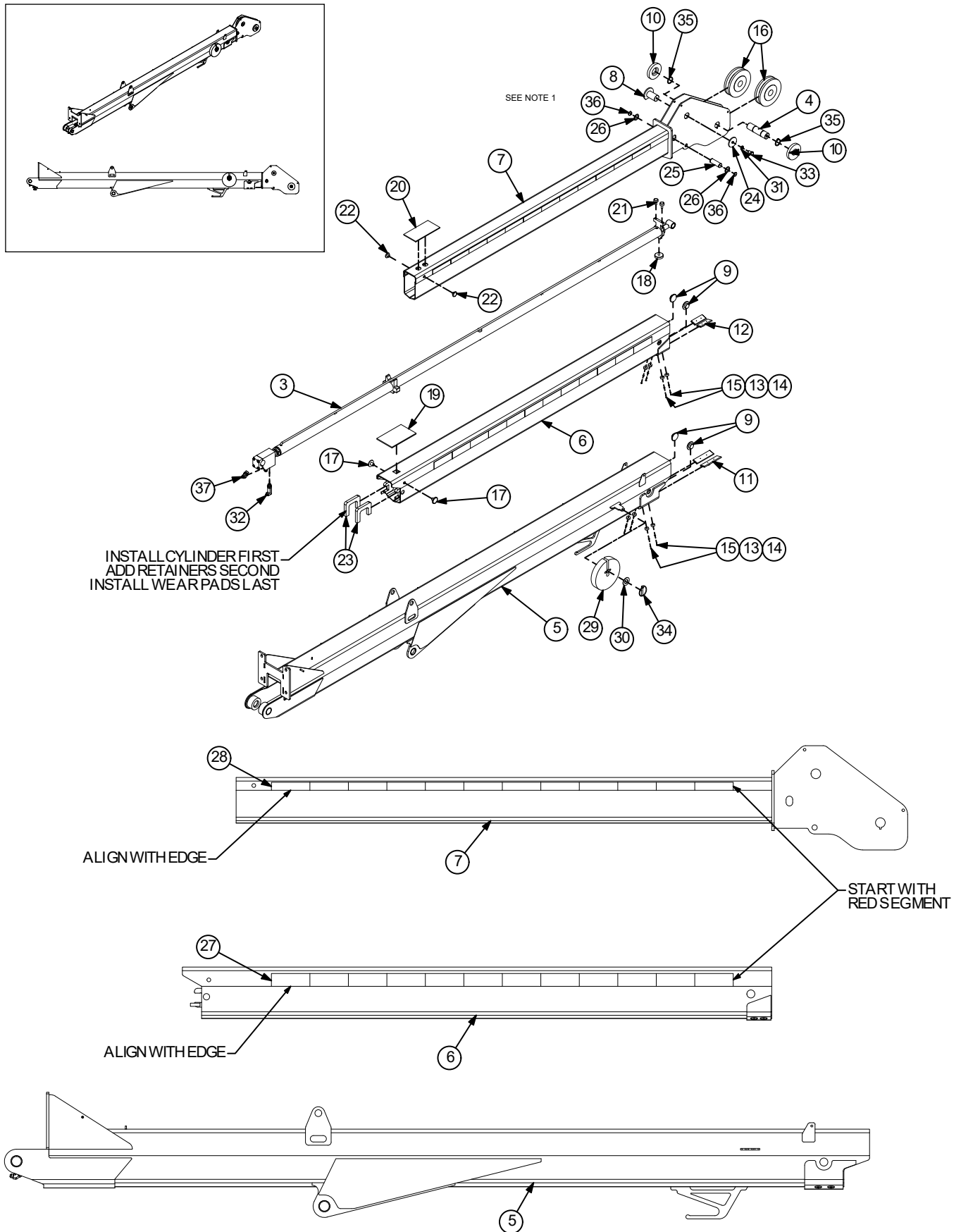
99906695 PARTS LIST

ITEM NO	PART NO	DESCRIPTION	QTY.	KIT NO.
1.	51728269	KIT-HRDW 6000S4 BASE ASM	1	
2.	51728229	KIT-ELEC CRANE SP CMD.CTRL	1	
3.	51728452	KIT-GREASE 6000 S4	1	
4.	91728376	KIT-HYD SERIES 4 5000/6000 SP	1	
5.	99906597	DWG-VALVE BANK ASM SP	1	
6.	51490385	HOSE-AA .13 X 4.50 (2-2) 100R17	2	
7.	52727684	MAST WLDMNT-5000/6000	1	
8.	60146052	SHROUD- TURNTABLE GEAR 5000/6000	1	
9.	70029595	THREADED PLUG 1.00-8 (3816)	2	
10.	70034382	CAP-GREASE PRO20 GC-RED	5	3
11.	70034578	BEARING MRP 1.50X1.75X0.50	4	
12.	70735198	TRANSM-RAD W/ LCD CMD.CTRL	1	2
13.	70735199	RECEIVER-RAD CAN BUS CMD.CTRL	1	2
14.	71056705	GEAR ROTATOR 5000/6000	1	
15.	72053301	COUPLING-GLV .12 SCH 40	2	3
16.	72053508	ZERK-NPT .12	2	3
17.	72053589	ELBOW-STREET BRS .12 X 90 DEG	2	3
18.	72060044	CAP SCR .38-16X .75 HH GR5 Z	4	1
19.	72060794	CAP SCR .50-13X 1.25 SH PLAIN	2	1
20.	72061807	NUT 1.00- 8 HEX GR2 Z JAM	2	1
21.	72062194	NUT-SS .25-20 NYLOC	2	1
22.	72063003	WASHER .38 FLAT	4	1
23.	72063010	WASHER 1.00 FLAT	2	1
24.	72063051	WASHER .38 LOCK	4	1
25.	72063119	WASHER .62 FLAT ASTM F436	14	1
26.	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	2	1
27.	72532669	ADPTR-M JIC/F JIC 8 10	1	4
28.	72533331	ELBOW-M STR/90/M JIC 10 6	2	4
29.	72601482	CAP SCR .62-11X 2.50 HH GR8 Z	14	1
30.	72602161	CAP SCR .25-20X 1.75 HH SS	2	1
31.	73051919	MOTOR-HYD (101-2638-009)	1	
32.	76039295	GASKET-GEA19 008-10056-1	1	
REV. A CN1340 20220525				

NOTES:

1. TORQUE TO 160 FT-LB.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH
4. PLUGS ARE USED TO KEEP GEAR COVER IN PLACE WHEN CRANE IS NOT INSTALLED ON TEST STAND OR TRUCK.

Boom Assembly (99906696)



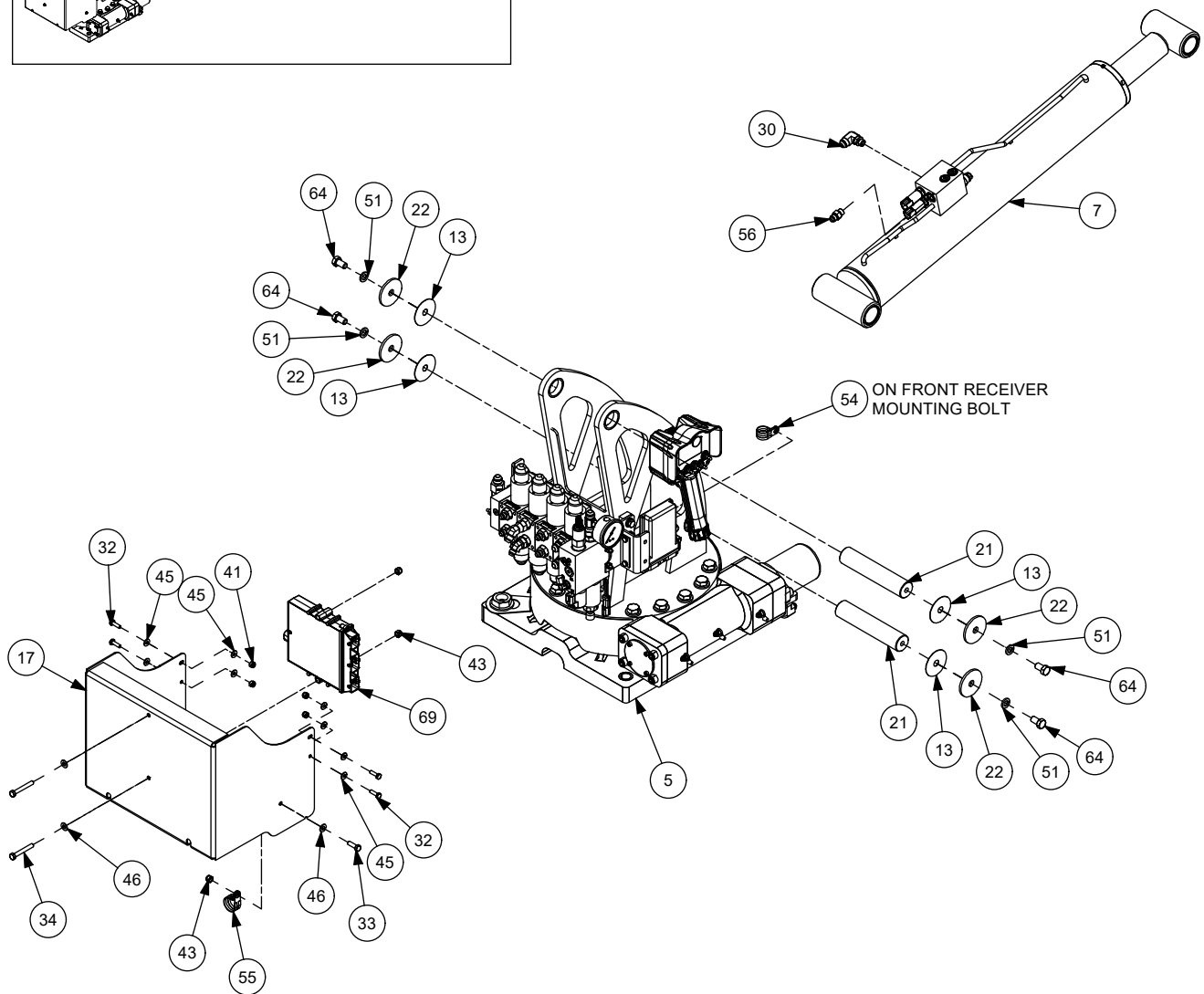
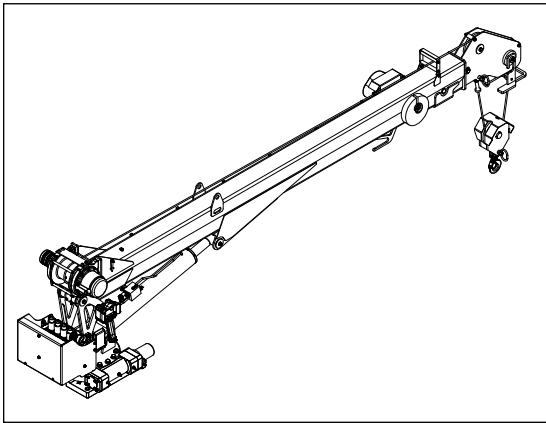
99906696

ITEM NO	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	51728270	KIT-HRDW 6000S4 BOOM ASM	1	
2.	91728376	KIT-HYD SERIES 4 5000/6000 SP	1	
3.	51727693	CYL - 1.75/1.00 59.00S 56.13S	1	
4.	51727745	FLIP SHEAVE PIN ASM	1	
5.	52727686	WLDMNT-LOWER BOOM 5000/6000	1	
6.	52727689	WLDMNT-1ST STAGE EXT BOOM 5000/6000	1	
7.	52727691	WLDMNT-2ND STAGE EXT BOOM 5000/6000	1	
8.	52727954	PIN-TYPE M 1.50X 2.56	1	
9.	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44	4	
10.	60030486	SPACER-A2B BRACKET	2	
11.	60030598	WEAR PAD-RC 0.25X5.63X1.38	2	
12.	60030599	WEAR PAD-RC 0.25X3.75X1.38	2	
13.	60030616	SPACER-NYLON 0.13x 0.88x 0.38	8	
14.	72063325	WASHER-FLAT #4 18-8 SS	8	
15.	72617561	SCR-SELF TAP-SS #4 X .63 PH	8	
16.	60030584	SHEAVE- 7.00 POLYMER 1.88 WIDE	2	
17.	60030586	WEAR PAD-RND 0.19X 1.63X .60X .81	2	
18.	60030591	WEAR PAD-RND 5000/6000 EXT CYL	1	
19.	60030592	WEAR PAD-RC 0.25 X 8.00X 5.00	1	
20.	60030593	WEAR PAD-RC 0.19 X 8.00X 4.00	1	
21.	60030594	WEAR PAD-RND .50X 1.00X .35X 1.00	2	
22.	60030597	WEAR PAD-RND .19X 1.25X .60X .44	2	
23.	60146064	PLATE-EXT CYL C-CLIP 5000/6000	2	
24.	70190003	RETAINER PLT-PIN 0.19 X 2.50 DIA SS	1	
25.	70190009	PIN-TYPE A 1.00 X 2.95 (2.75) SS	1	
26.	70190010	MACHY BUSHING 1.00X14 GA SS	2	
27.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00	2	
28.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00	2	
29.	71414204	PLATE-SINGLE SHEAVE (20#) .38 WIRE ROPE	1	
30.	72063010	WASHER 1.00 FLAT	1	1
31.	72063144	WASHER-SS .50 LOCK TYPE 304	1	1
32.	72535033	ELBOW-M STR/90/M JIC 8 6 XL	1	2
33.	72602168	CAP SCR .50-13X .88 HH SS	1	1
34.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW	1	1
35.	72661774	RETAINING RING-EXT 1.50 HD YZ	2	1
36.	72661778	RETAINING RING-EXT 1.00 SS	2	1
37.	72533583	ELBOW-M STR/45/M JIC 8 6	1	

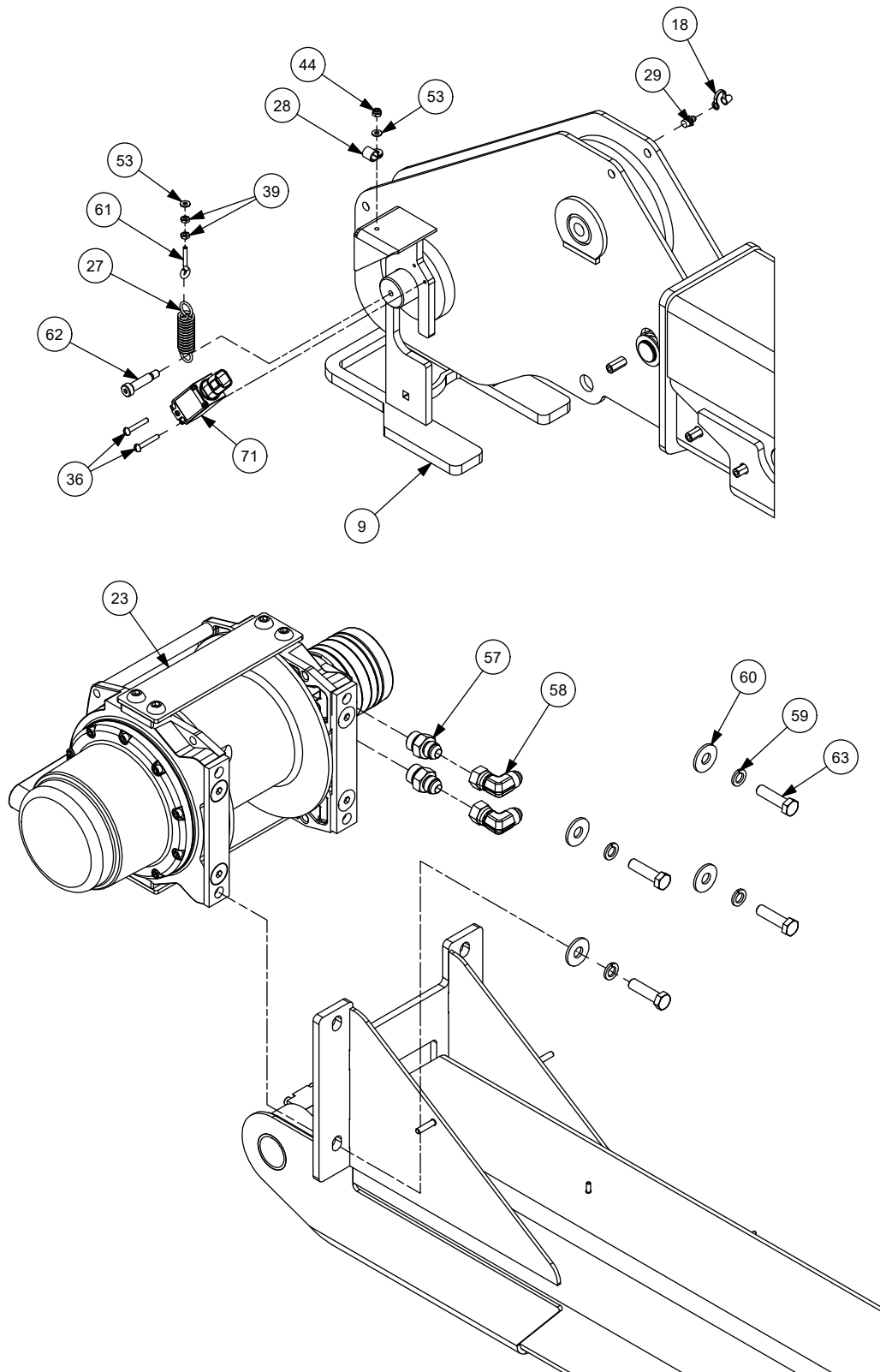
NOTES:

1. APPLY NEVER-SEEZ TO CYLINDER PIN IN HORSE HEAD.
2. TORQUE TO 70 IN-LB.

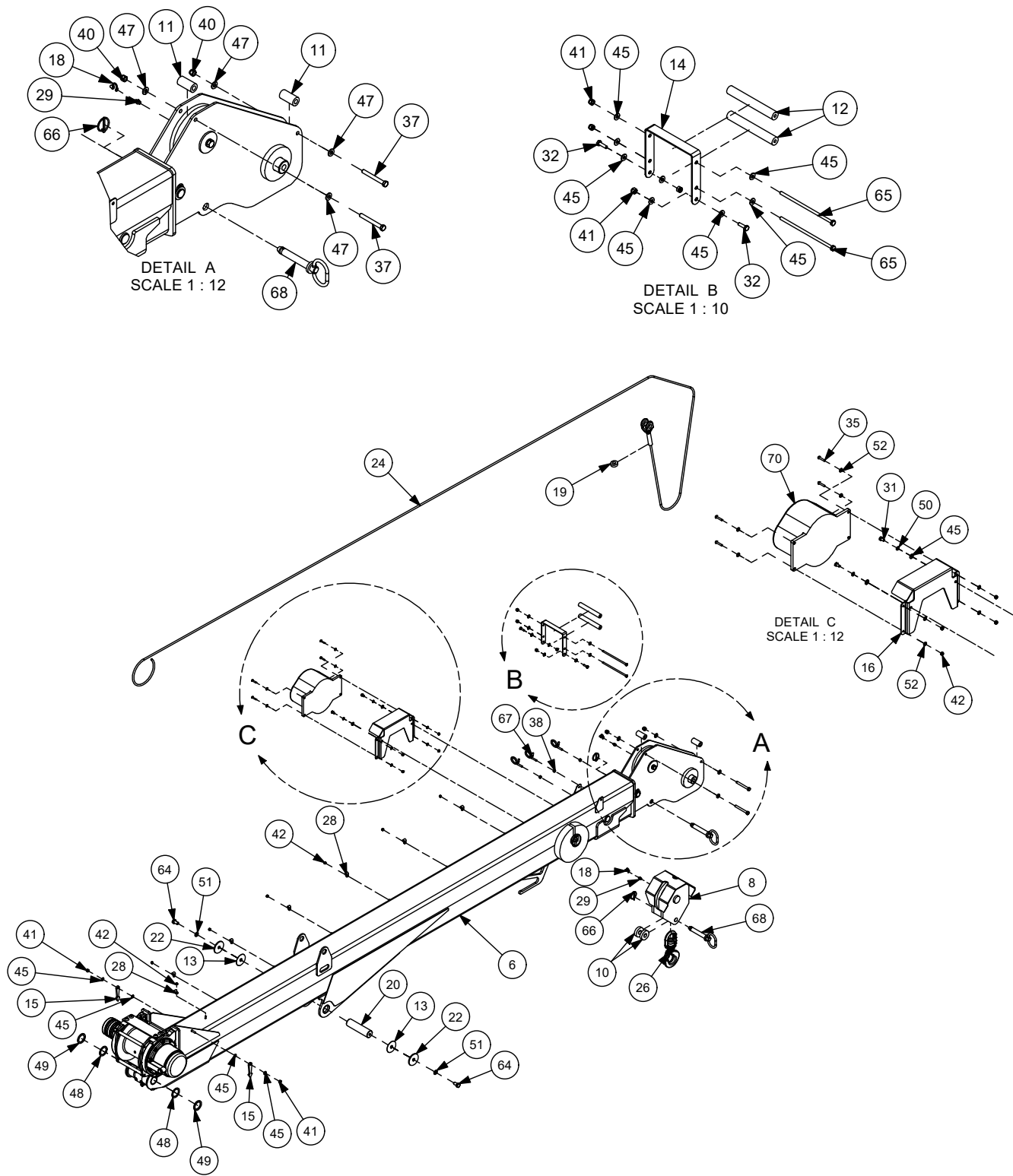
Crane Assembly (99906697) Base & Valve Bank View



Crane Assembly (99906697) Winch & A2B View



Crane Assembly (99906697) Boom & Rigging View



CRANE ASSEMBLE (99906697) COMPLETE PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	51728271	KIT-HRDW 6000S4 CRANE ASM	1	
2.	51728452	KIT-GREASE 6000 S4	1	
3.	51728229	KIT-ELEC CRANE SP CMD.CTRL	1	
4.	91728376	KIT-HYD SERIES 4 5000/6000 SP	1	
5.	99906695	DWG-BASE ASM 6000 S4	1	
6.	99906696	DWG-BOOM ASM 6000 S4	1	
7.	51728246	CYL - 4.00/2.25 25.06S 36.50CC CMD.CTRL	1	
8.	52717885	WLDMT- SNATCH BLOCK	1	
9.	52727799	WLDMT-A2B BRKT 5000/6000	1	
10.	60030327	SPACER- SNATCH BLOCK	2	
11.	60030585	NYLON UNTHREADED SPACER 1.00 OD X 0.51 ID X 2.00	2	
12.	60030588	WEAR PAD-ROLLER 5000/6000 CABLE GUIDE	2	
13.	60030590	WEAR PAD-RND 0.56X 2.44X .03	6	
14.	60146056	GUIDE-WINCH CABLE 5000/6000	1	
15.	60146295	PLATE-ANGLE STEEL 3.50 IN	2	
16.	60146843	BRKT-CORD REEL MNT CMD.CTRL	1	
17.	60147074	COVER-VLV BANK 6000S4	1	
18.	70034382	CAP-GREASE PRO20 GC-RED	3	3
19.	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN	1	
20.	70190001	PIN-TYPE AB 1.50X 5.75 SS	1	
21.	70190002	PIN-TYPE AB 1.50 X 7.25 SS	2	
22.	70190003	RETAINER PLT-PIN 0.19 X 2.50 DIA SS	6	
23.	70571269	WINCH-5000/6000 3000LB	1	
24.	70580228	WIRE ROPE ASM- .31 (6X19) X80FT	1	
25.	70733889	CABLE ASM-33ft BATT & RADIO ELIMINATION	1	
26.	70735100	HOOK-SWVL BBRG 3TON W/LATCH	1	
27.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	1	1
28.	72034485	CLAMP-PLASTIC 1/4" CABLE	8	1
29.	72053508	ZERK-NPT .12	3	3
30.	72053762	ELBOW-M STR/90/M JIC 6 8	1	4
31.	72060000	CAP SCR .25-20X .50 HH GR5 Z	2	1
32.	72060003	CAP SCR .25-20X .88 HH GR5 Z	6	1
33.	72060025	CAP SCR .31-18X 1.00 HH GR5 Z	1	1
34.	72060030	CAP SCR .31-18X 2.25 HH GR5 Z	2	1
35.	72060638	SCR-MACH 10-24X 1.00 RDH ZINC	4	1
36.	72060639	SCR-MACH 10-24X 1.25 RDH	2	1
37.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	2	1
38.	72062000	NUT .25-20 HEX	3	1
39.	72062093	NUT # 8-32 HEX ZINC	2	1
40.	72062103	NUT .38-16 HEX NYLOCK	2	1
41.	72062104	NUT .25-20 HEX NYLOCK	10	1
42.	72062106	NUT 10-24 HEX NYLOCK	11	1
43.	72062109	NUT .31-18 HEX NYLOCK	3	1
44.	72062207	NUT 8-32 HEX NYLOCK	1	1
45.	72063001	WASHER .25 FLAT	22	1
46.	72063002	WASHER .31 FLAT	3	1
47.	72063003	WASHER .38 FLAT	4	1
48.	72063036	MACHY BUSHING 1.50X14 GA NR	2	
49.	72063037	MACHY BUSHING 1.50X10 GA NR	2	
50.	72063049	WASHER .25 LOCK	2	1
51.	72063144	WASHER-SS .50 LOCK TYPE 304	6	1
52.	72063268	WASHER #10 W FLAT ANSI B27.2Z	8	1
53.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	2	1
54.	72066581	CLAMP-LOOP 1.00 CUSHIONED	1	1
55.	72066582	CLAMP-LOOP 1.25 CUSHIONED	1	1
56.	72532355	ADPTR-M STR/M JIC 6 6	1	4
57.	72532359	ADPTR-M STR/M JIC 10 8	2	4
58.	72532658	ELBOW-M JIC/90/F JIC SW 8 8	2	4
59.	72601798	WASHER-LOCK 12MM	4	1

99906697 COMPLETE PARTS LIST - CONTINUED

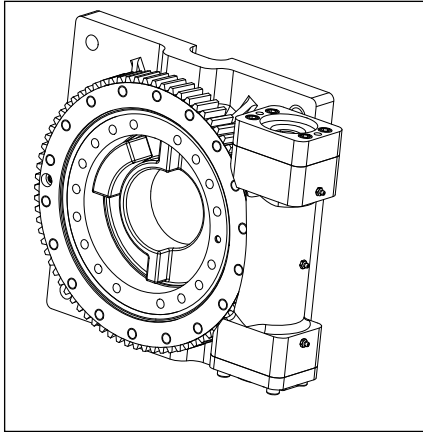
ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
60.	72601800	WASHER-FLAT M12	4	1
61.	72601938	BOLT-EYE # 8-32X 1.125	1	1
62.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	1	1
63.	72602162	CAP SCR M12-1.75X 45 HHZ	4	1
64.	72602168	CAP SCR .50-13X .88 HH SS	6	1
65.	72602169	CAP SCR .25-20X 6.50 HH GR5 Z	2	1
66.	72661543	PIN-QUICK 316-10QP	2	1
67.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	3	1
68.	73734752	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN	2	
69.	77040742	CONTROLLER- CRANE MODULE S4	1	2
70.	77040823	CORD REEL ASM- SENSING CMD.CTRL	1	2
71.	77041863	SWITCH-LIMIT DT04-4P CONN	1	
72.	77441718	HARNESS-S4 SP CRANE	1	2
REV. B CN1348 20220525				

NOTE:

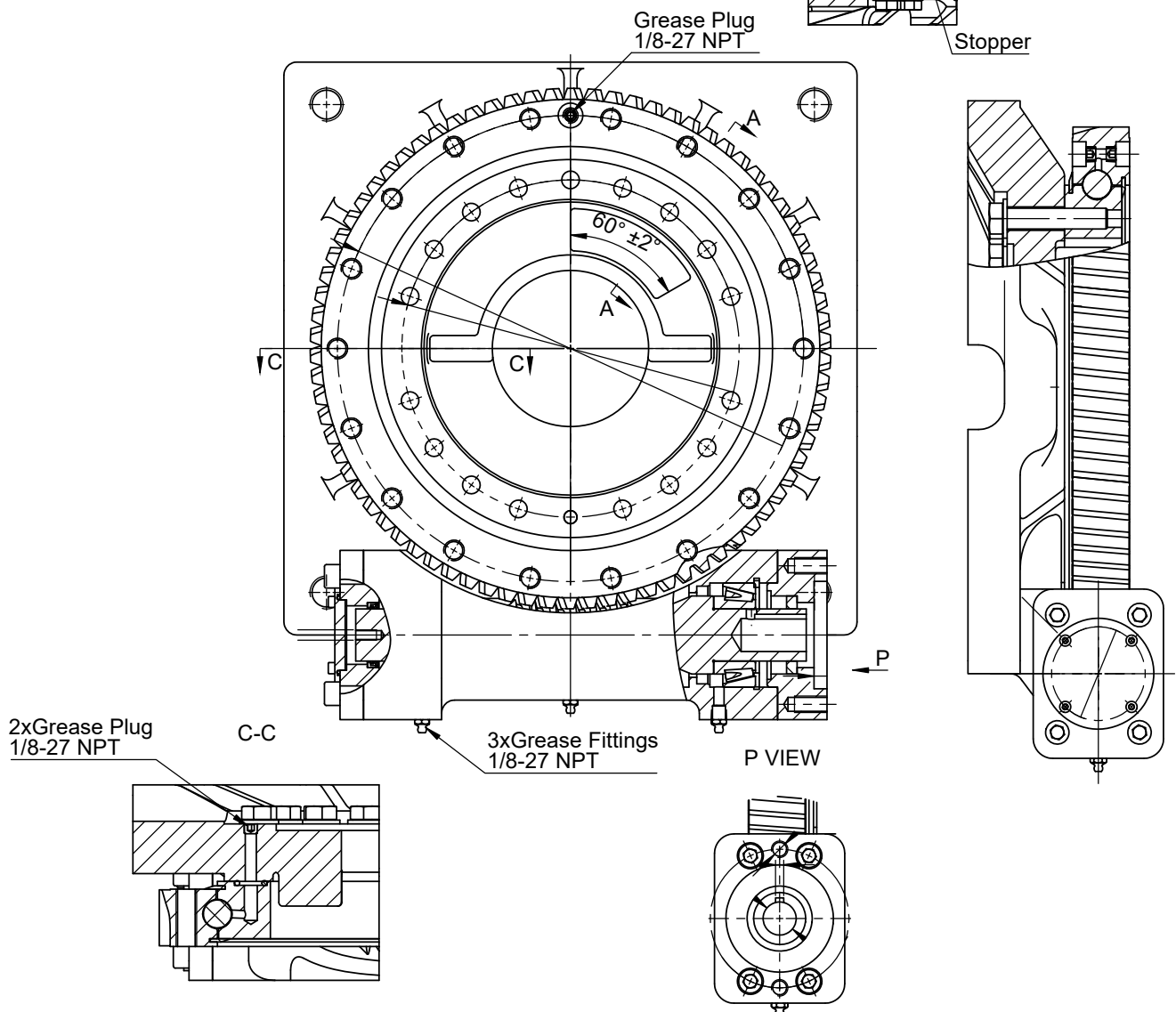
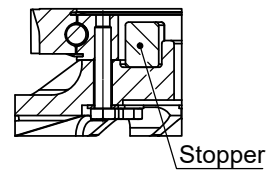
PART NUMBERS 70733889 & 77441718 NOT SHOWN.

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Gear Rotator (71056705)



VIEW A-A



71056705 CONTINUED

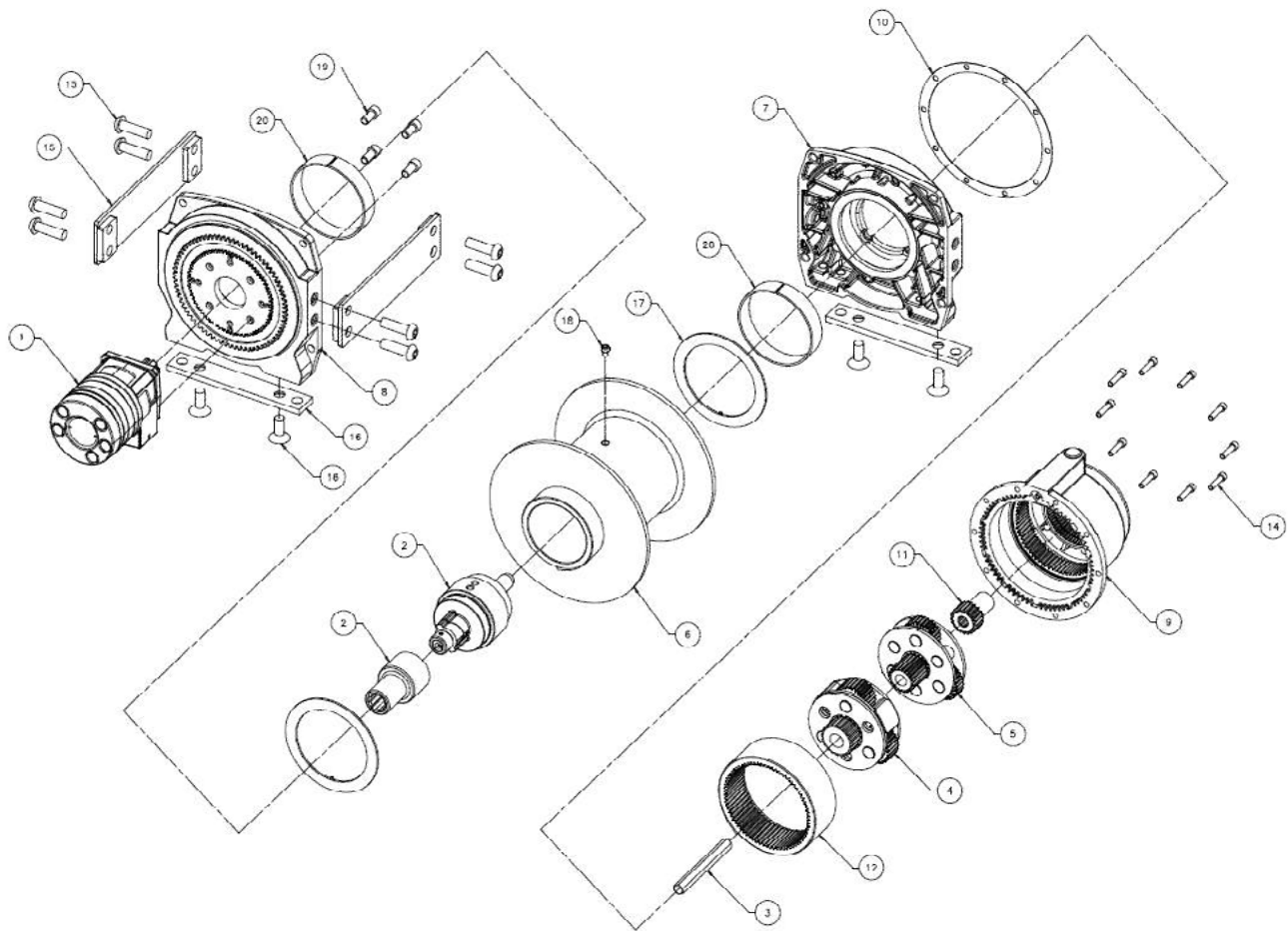
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.		HEX CYLINDRICAL SCREWS M12X35	8
2.		COVER	1
3.	76490380	O-RING 82.5X2.65	2
4.	70055410	BEARING-TAPERED ROLLER 33208/Q	2
5.	76535056	SEAL-OIL 60X75X8 FB	2
6.	70056709	GEAR-WORM 12 INCH	1
7.		OIL CISTERN (EXTENDED) 1/8-27 NPT	3
8.		A ELASTIC THICKENED RETAINING RING 80X4	1
9.	76535057	SEAL-OIL 40X50X8 FB	1
10.		MOTOR BLOCK	1
11.		12" HOUSE	1
12.		12" SLEWING DRIVE	1
13.		SLIDE BLOCK	1
14.		HELIX BOLT 5/8-11 X 3 UNC	17
15.		WASHER 16	17
16.		NAME PLATE	1
17.		RIVET 2 X 5	4
18.		LOCAL SCREW 1/4-20 X 55	2
19.		END CAP M 1/8-27 NPTF	2
20.	76490381	O-RING 17X4	2
REV A CN 1194			

ITEMS SHOWN ARE COMMON SERVICE ITEMS. FOR PART NUMBERS NOT ASSIGNED CONTACT:
IOWA MOLD TOOLING CO., INC.
TECHNICAL SUPPORT TEAM



imt.com/parts-service

Winch - 6000 LB (70571269)

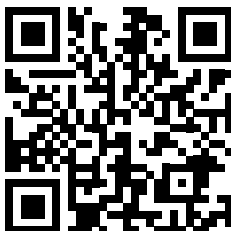


WINCH (70571269) PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	73511461	S/P, MOTOR, HYD, 3.0CI, 4 BOLT, A	1
2.	70735238	S/P BREAK ASSY, 3000# HOIST, H	1
3.		(HEX) SHAFT, DRIVE, 1/2 X 4.64	1
4.		CARRIER ASSY, FINAL STG, 27T P	1
5.		CARRIER ASSY, PRIMARY, 27T X 1	1
6.		DRUM SUBASSY, DC3000	1
7.		(MTO)S/P DRUM SUPPORT ASSY GEAR END	1
8.		(MTO)S/P DRUM SUPPORT ASSY MOTOR END	1
9.		S/P GEAR HOUSING ASSY, W/CLUTCH	1
10.	32000231	GASKET, RING GEAR	1
11.		GEAR, SUN, 21T X 16 DP	1
12.		RING GEAR, (PH) STAGE 3, FS WN	1
13.		PARTS (PH) PACK, DC3000	1
14.		CAPSCREW SOC HD 1/4 X 1	10
15.		SVC KIT PLATE, TIE BAR	2
16.		SVC KIT PLATE, SPACER	2
17.		WASHER, THRUST, NYLATRON, CIM	1
18.	32000385	(KB) SET SCREW, DOG POINT, M10	1
19.		(KB) CPSCR SOC HD 3/8-16x.75 Z	4
20.		BUSHING DRUM NYLATRON	1
REV. INITIAL RELEASE			

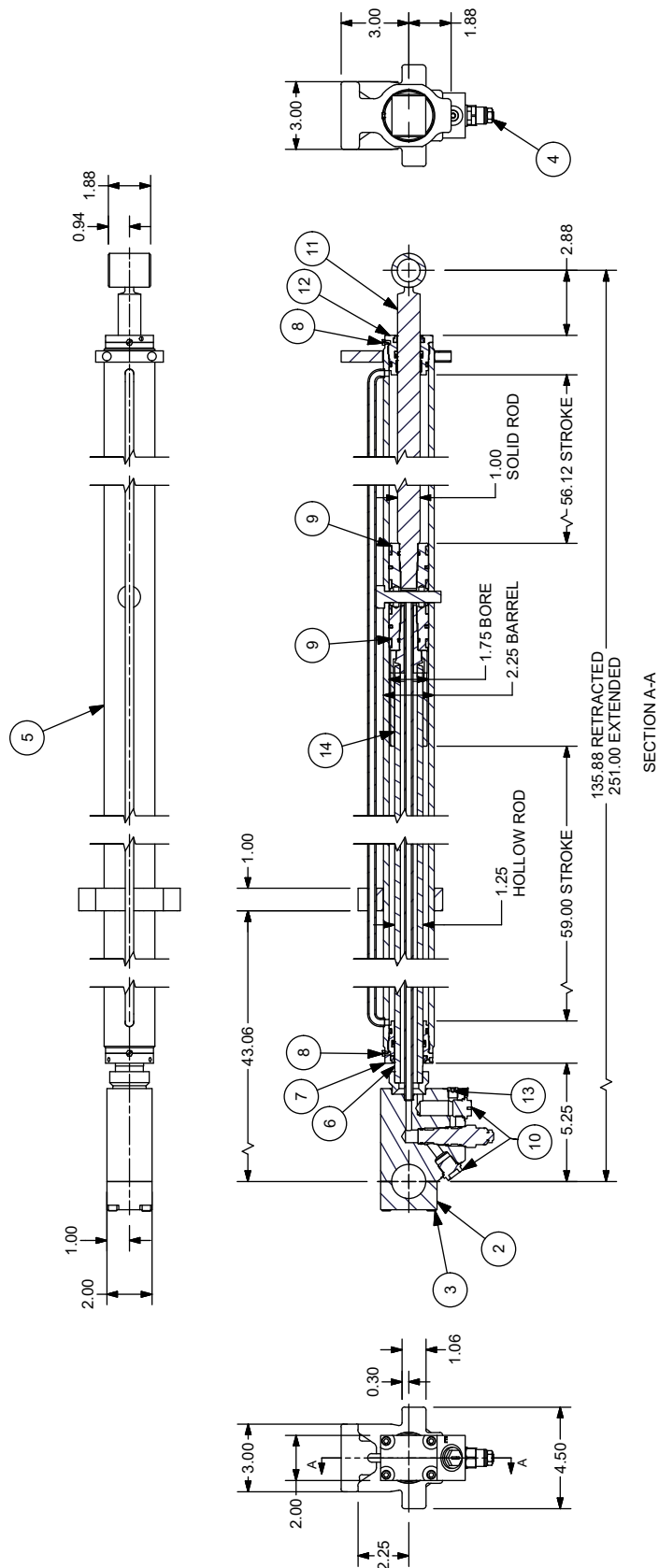
ITEMS SHOWN ARE COMMON SERVICE ITEMS. FOR PART NUMBERS NOT ASSIGNED CONTACT:

IOWA MOLD TOOLING CO., INC.
TECHNICAL SUPPORT TEAM



imt.com/parts-service

Extension Cylinder (51727693)



51727693 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	94490379	SEAL KIT-51727693	1
2.	71416609	ROD END CAP	1
3.	71416610	CAP SCREW .25-20 X 1.50 SHCS GR8	4
4.	73540730	VALVE-CBAL CBBB-LJN 3250 PSI	1
5.		BARREL ASSEMBLY	1
6.		HOLLOW ROD ASSEMBLY	1
7.		HOLLOW ROD BEARING ASSEMBLY	1
8.		LOCKING SCREW	2
9.		PISTON ASSEMBLY	2
10.		PLASTIC PLUG SAE O-RING #8	2
11.		SOLID ROD ASSEMBLY	1
12.		SOLID ROD BEARING ASSEMBLY	1
13.		STEEL SAE O-RING PLUG #4	1
14.		STROKE LIMITER	1
REV. A CN1207-1			

NOTES:

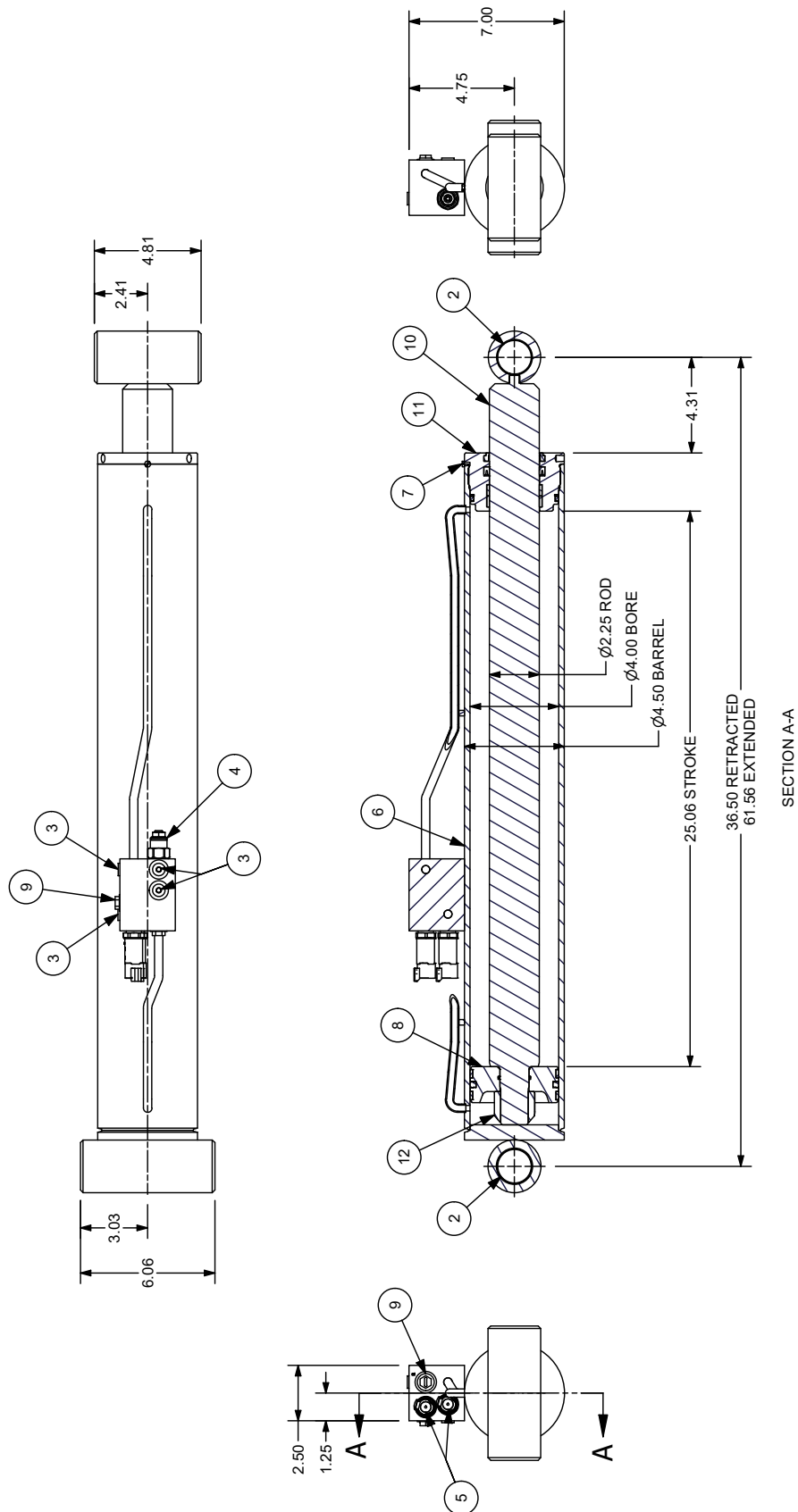
PART NUMBER 94490379 NOT SHOWN.

ITEMS SHOWN ARE COMMON SERVICE ITEMS. FOR PART NUMBERS NOT ASSIGNED CONTACT:

IOWA MOLD TOOLING CO., INC.
TECHNICAL SUPPORT TEAM
TELEPHONE: 800-554-4421

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Lower Cylinder - CMD.CTRL (51728246)



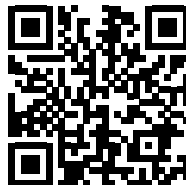
PARTS LIST 51728246

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	94490370	SEAL KIT	1
2.	70034586	BEARING MRP 1.50X1.75X2.00	4
3.	72533477	PLUG-STR SOC HD STL 4 (.44 THD)	4
4.	73540673	VALVE-CBAL SUN CBBB-LAN 3300 PSI	1
5.	77041866	TRANSDUCER-HYD 0-5000PSI 4-20mA 2-Wire	2
6.		BARREL ASSEMBLY	1
7.		LOCKING SCREW	1
8.		PISTON ASSEMBLY	1
9.		PLASTIC PLUG, SAE O-RING #06	2
10.		ROD ASSEMBLY	1
11.		ROD BEARING ASSEMBLY	1
12.		SELF-LOCKING NUT 1.25-12 UNF	1
REV. INITIAL RELEASE 20220118			

NOTES:

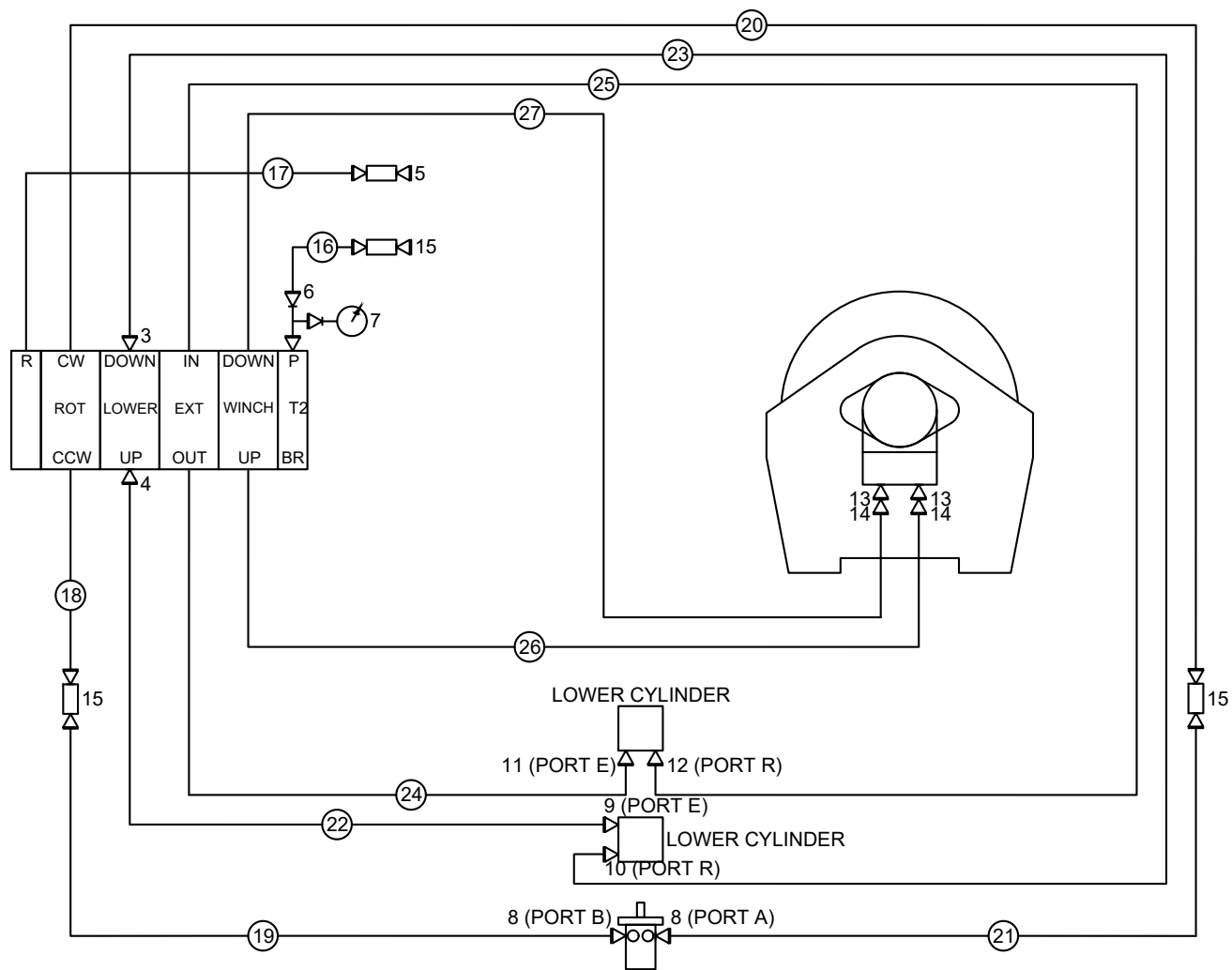
1. SEAL KIT NOT SHOWN. (94490370)

ITEMS SHOWN ARE COMMON SERVICE ITEMS. FOR PART NUMBERS NOT ASSIGNED CONTACT:
IOWA MOLD TOOLING CO., INC.
TECHNICAL SUPPORT TEAM
TELEPHONE: 800-554-4421



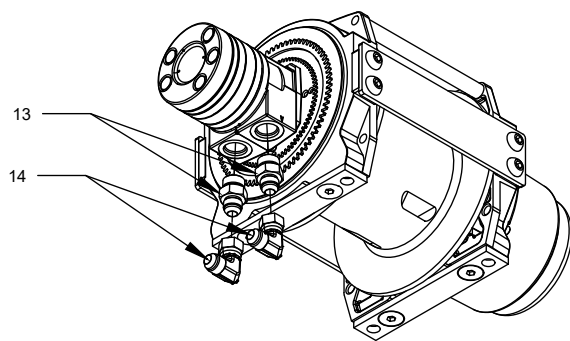
imt.com/service

Hydraulic Schematic SP (99906735)

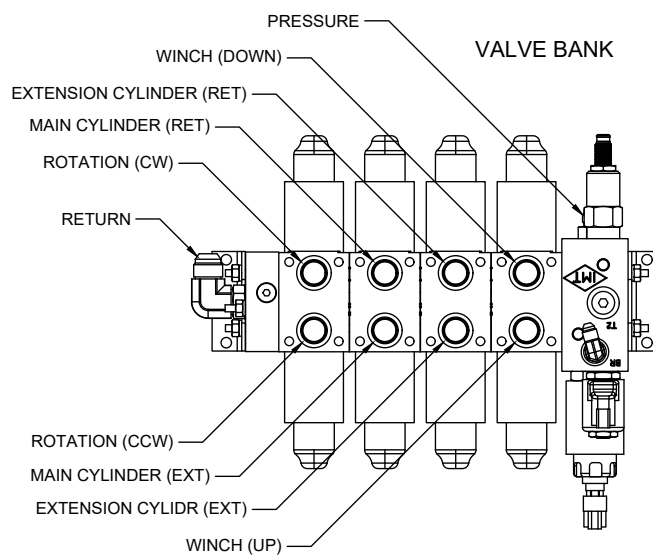
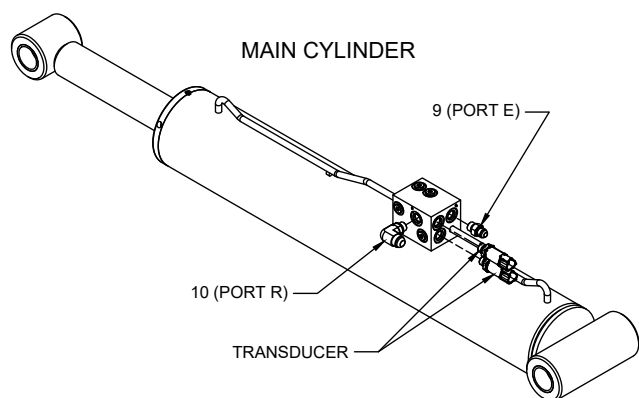
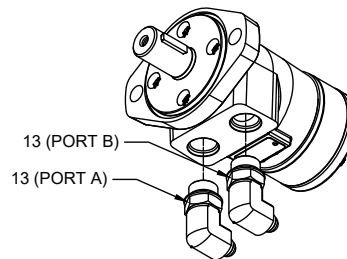


HYDRAULIC SCHEMATIC SP (99906735)

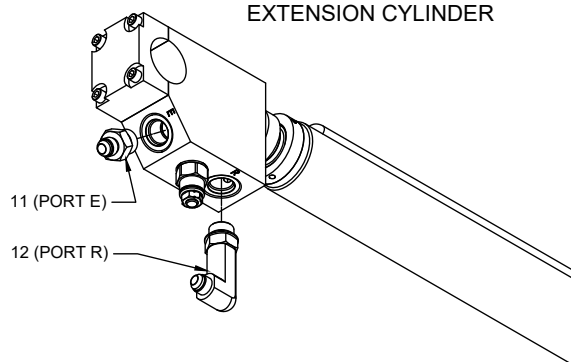
HOIST



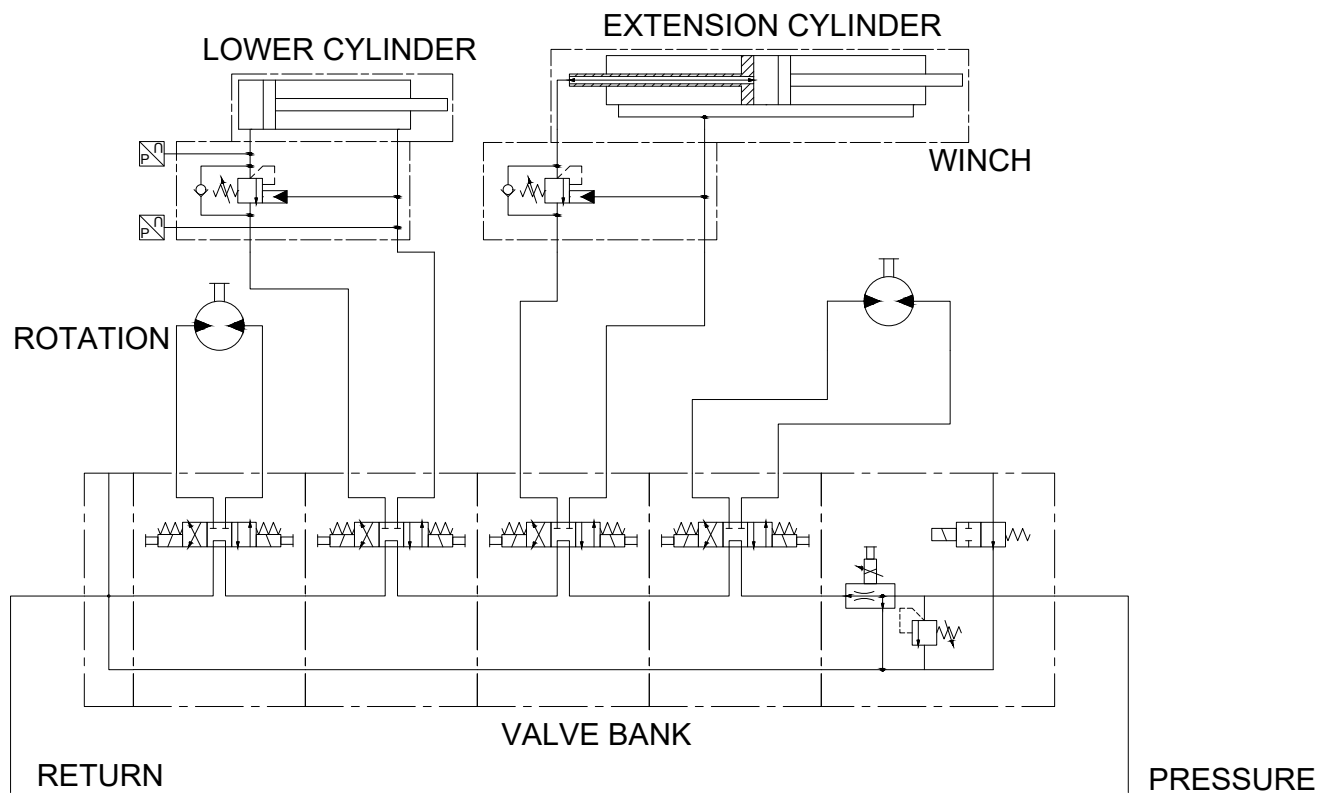
ROTATION MOTOR



EXTENSION CYLINDER

**NOTES:**

1. INSTALL 6035141 ON EXTENSION CYLINDER, MAIN CYLINDER, AND ROTATION HOSES.
2. INSTALL 6035142 ON WINCH AND PRESSURE/RETURN VALVE BANK HOSES.

HYDRAULIC SCHEMATIC SP (99906735)

HYDRAULIC SCHEMTATIC SP (99906735) PARTS LIST

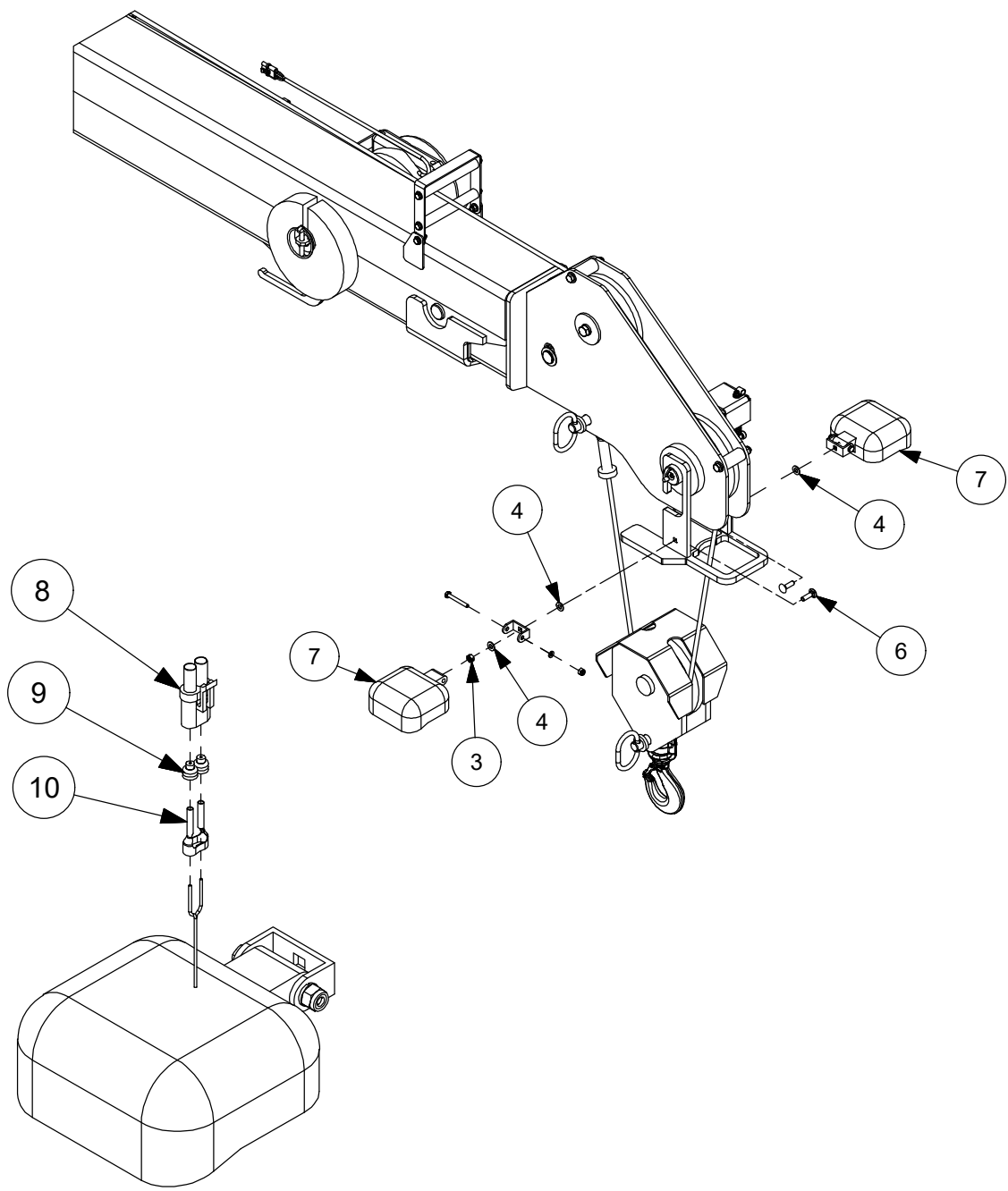
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91728376	KIT-HYD SERIES 4 5000/6000 SP	REF	1
2.	73734472	VALVE BANK-4-SECT BV18 S3SP 12VDC		1
3.	72532670	ELBOW-M JIC/45/F JIC 8 8	1	1
4.	72533583	ELBOW-M STR/45/M JIC 8 6	1	1
5.	72534412	SWIVEL-M JIC/90/M JIC 10 10	1	1
6.	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1	1
7.	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB		1
8.	72533331	ELBOW-M STR/90/M JIC 10 6	1	2
9.	72532355	ADPTR-M STR/M JIC 6 6	1	1
10.	72053762	ELBOW-M STR/90/M JIC 6 8	1	1
11.	72533583	ELBOW-M STR/45/M JIC 8 6	1	1
12.	72535033	ELBOW-M STR/90/M JIC 8 6 XL	1	1
13.	72532359	ADPTR-M STR/M JIC 10 8	1	2
14.	72532658	ELBOW-M JIC/90/F JIC SW 8 8	1	2
15.	72533648	SWIVEL-M JIC/90/M JIC 8 8	1	3
16.	51396017	HOSE-FJ .50 X 30.00 (8-8) 100R16	1	1
17.	51397080	HOSE-FJ .62 X 30.00 (10-10) 100R17	1	1
18.	51399072	HOSE-FJ .38 X 22.50 (8-6) 100R17	1	1
19.	51490386	HOSE-FF .38 X 17.00 (8-6) 100R17	1	1
20.	51399073	HOSE-FZ .38 X 25.00 (8-6) 100R17	1	1
21.	51490312	HOSE-FF .38 X 21.00 (8-6) 100R17	1	1
22.	51399462	HOSE-FJ .38 X 31.00 (6-6) 100R17	1	1
23.	51399463	HOSE-FZ .50 X 32.00 (8-8) 100R17	1	1
24.	51490429	HOSE-FZ .38 X 19.00 (6-6) 100R17	1	1
25.	51490430	HOSE-FJ .38 X 19.00 (6-6) 100R17	1	1
26.	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1	1
27.	51397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1	1
28.	51490385	HOSE-AA .13 X 4.50 (2-2) 100R17	1	2
29.	60350141	SLEEVE-HOSE NHS-159 X 12 CUT & SEALED	1	3
30.	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	1	2
REV. A CN1377				

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Section - 6

Electrical & Lighting

Boom Tip Floodlight Kit (99906598)



WIRING DETAIL
SCALE 1 : 4

99906598 PARTS LIST

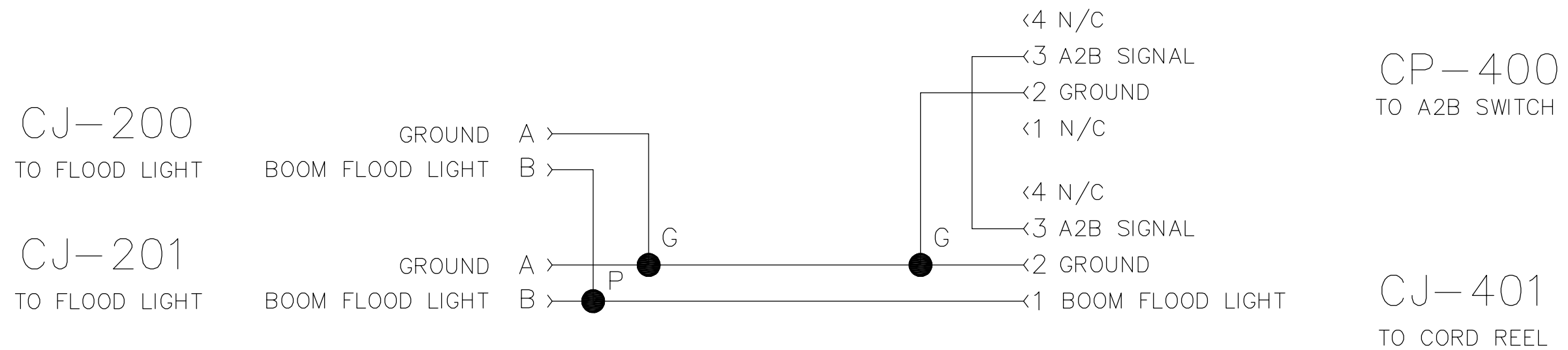
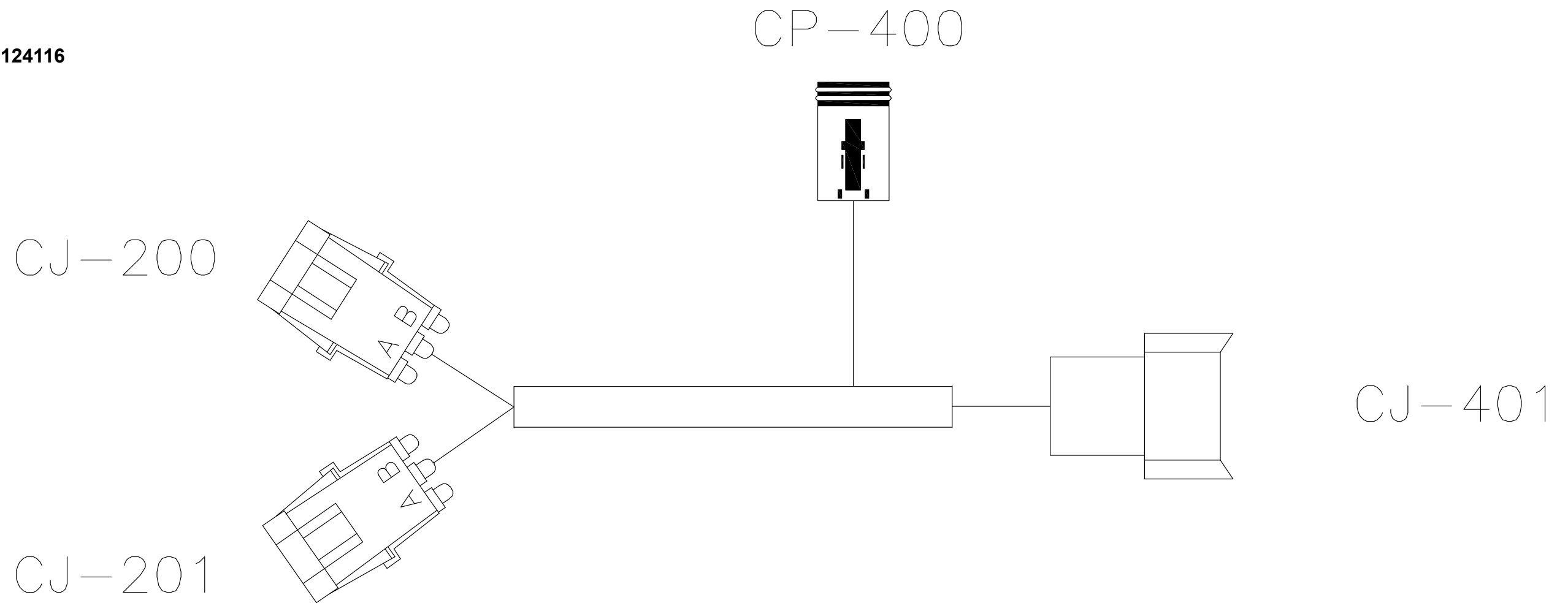
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	51724116	ELECT KIT-S3 BOOM DUAL LED FLOOD LIGHTS		1
2.	72034572	CLAMP-PLASTIC .38 CABLE	1	1
3.	72062414	NUT .31-18 HEX GR2 Z CENTER LOCKING		2
4.	72063002	WASHER .31 FLAT	1	4
5.	72063050	WASHER-LOCK .31 ZINC	1	4
6.	72602175	BOLT-CRG .31-18X .88 SQNK GRA		2
7.	77040581	FLOODLIGHT-LED 12-36VDC	1	2
8.	77044574	CONN-PKRD WEATHERPACK 2 CAV FEMALE/TOWER	1	2
9.	77044927	CABLE SEAL-PKRD WP/MP 14 GA GREY	1	4
10.	77045888	TERM-PKRD WEATHERPACK 14-16GA FEMALE	1	4
11.	77441473	HARNESS-S3 BOOM TIP LED FLD LIGHT JUMPER	1	1
REV. A CN1207-1				

NOTE:

PART NUMBERS: 72034572, 72063050, AND 77441473 NOT SHOWN.

Harness-Boom Tip Led Flood Light Jumper (77441473)

Kit Number: 57124116



HARNESS-BOOM TIP LED FLOOD LIGHT JUMPER (77441473)

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

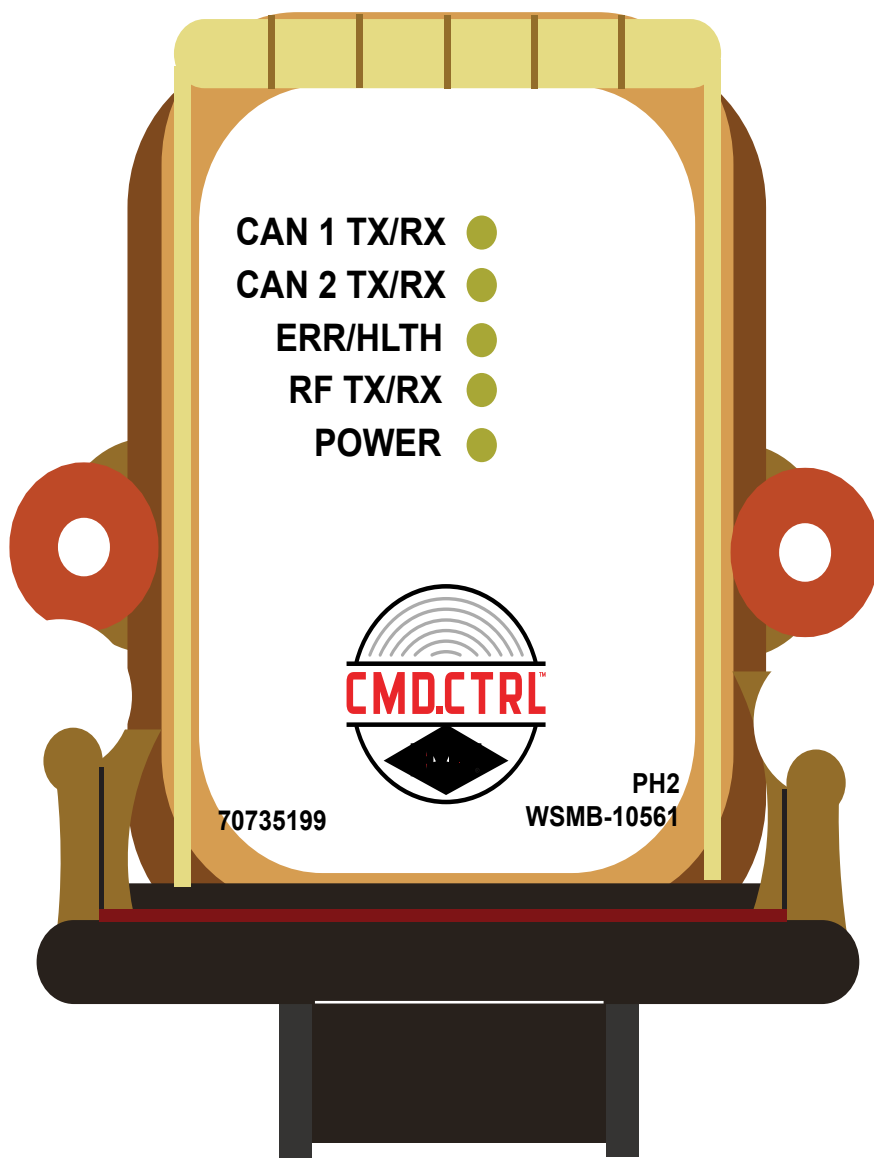
LOCATOR CODE: -				SPLICE P		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
-	BRN	16	BOOM FLD LT	TO	CJ-200	B
-	BRN	16	BOOM FLD LT	TO	CJ-201	B
-	BRN	16	BOOM FLD LT	TO	CJ-401	1

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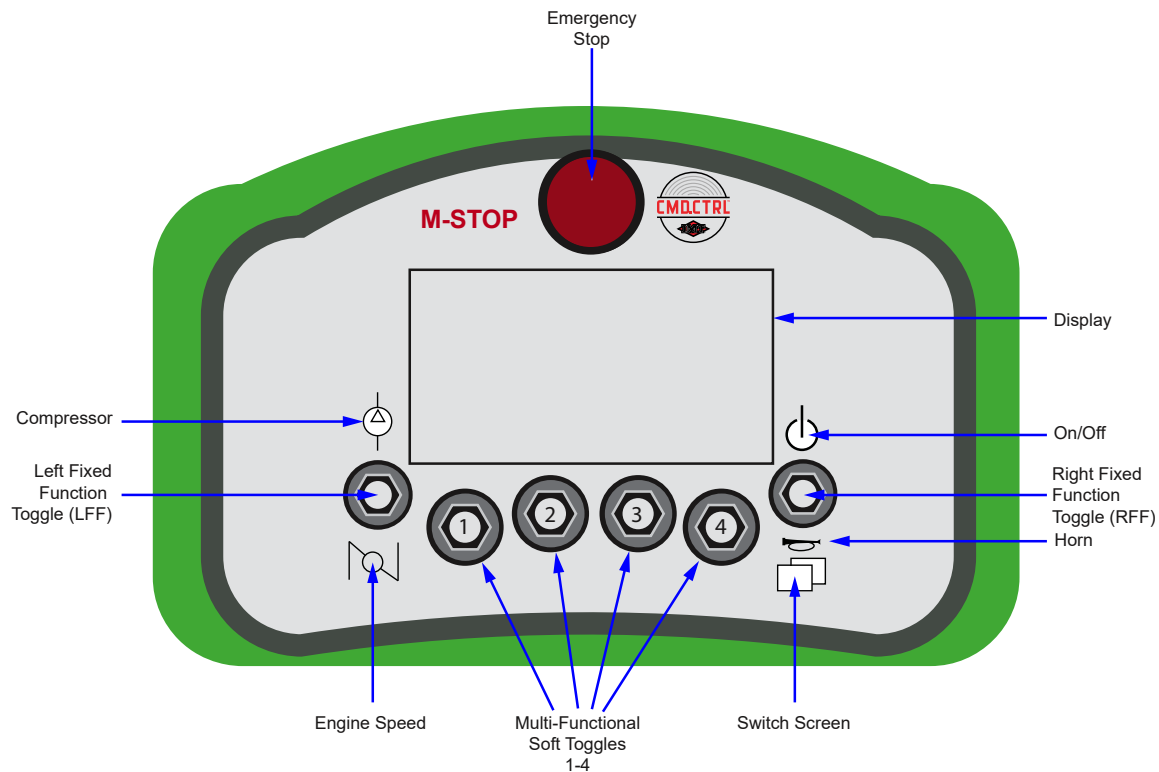
Section - 7

CMD.CTRL

Base Unit (70735199)



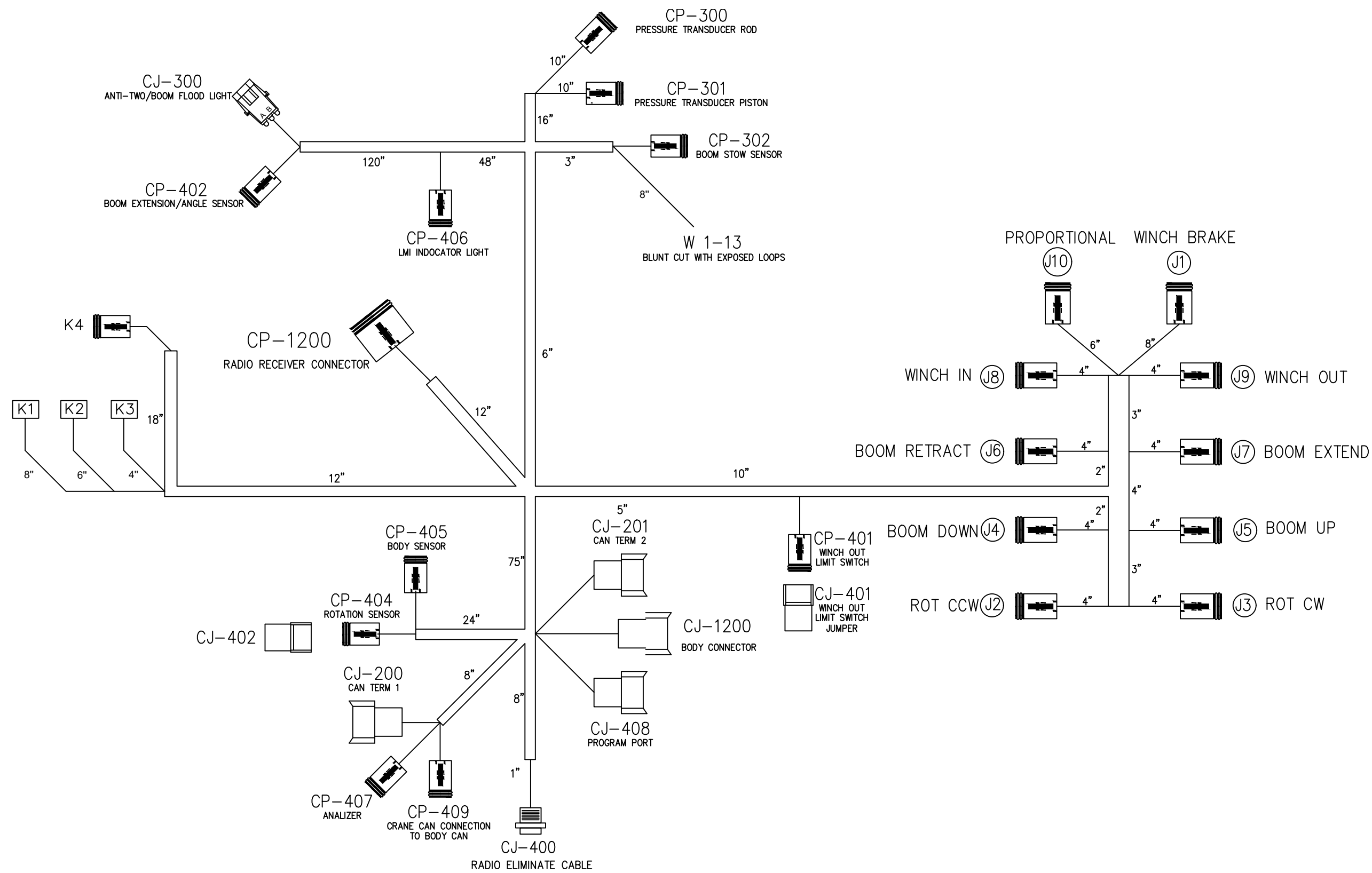
Handheld Remote, Toggles & Icons (70735198)



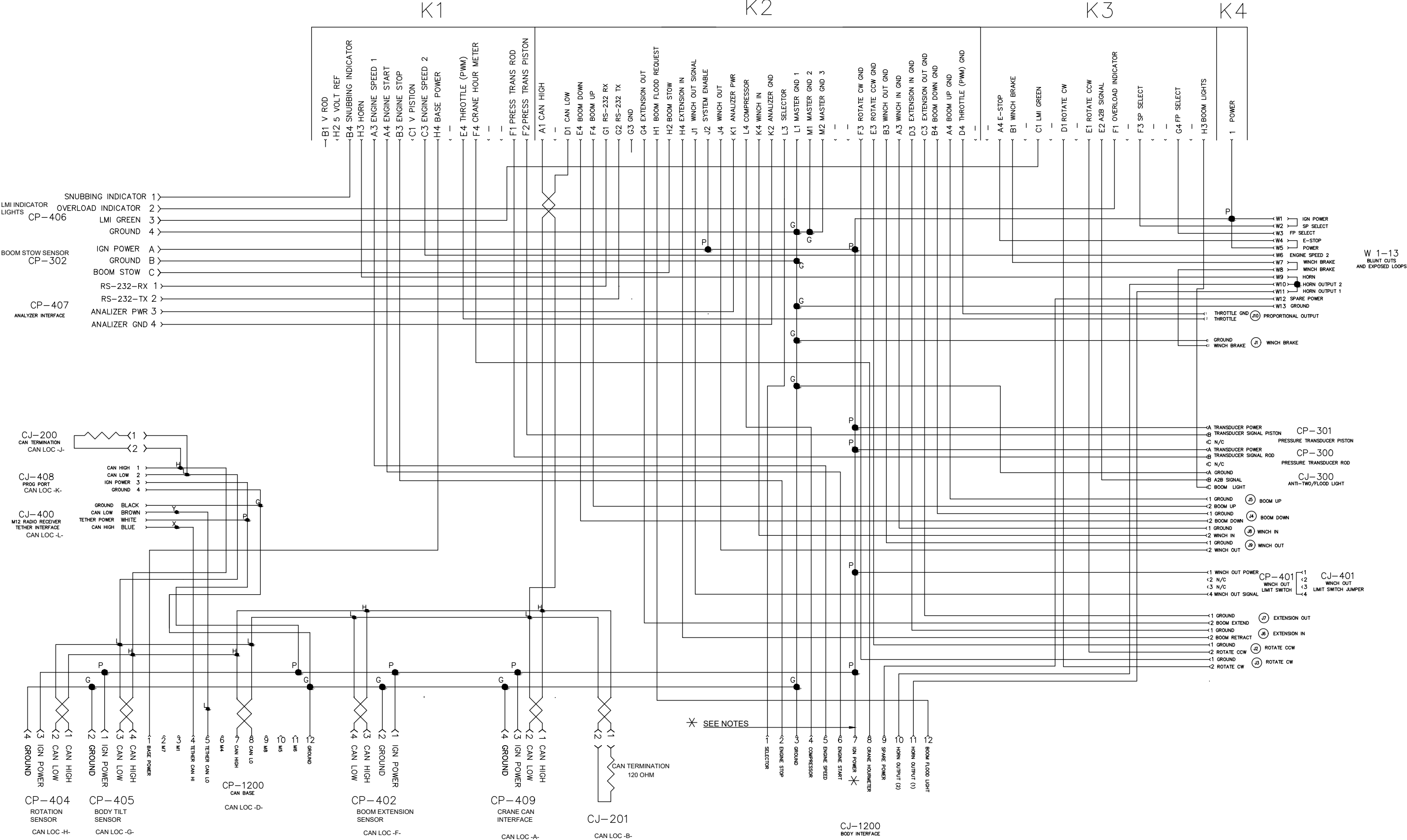
TOGGLE NAME	DESCRIPTION	TOGGLE STYLE
Right Fixed Function (RFF) UP	• TX ON / OFF • Association	Three-Position Momentary
Right Fixed Function (RFF) DOWN	• Horn • Menu	Three-Position Momentary
Soft Toggles 1 – 4	Functions will change based on the icons that are being displayed on the screen	Three-Position Momentary
Left Fixed Function (LFF) UP	• Compressor	Three-Position Momentary
Left Fixed Function (LFF) DOWN	• RPM HI / LO	Three-Position Momentary
Emergency Stop	Machine Stop	Maintained

PLEASE READ AND FOLLOW MANUAL PART NUMBER 99906363, CMD.CTRL OPERATOR'S MANUAL FOR STEP-BY-STEP INSTRUCTIONS ON HOW TO OPERATE THE CMD.CTRL RADIO REMOTE AND BASE.

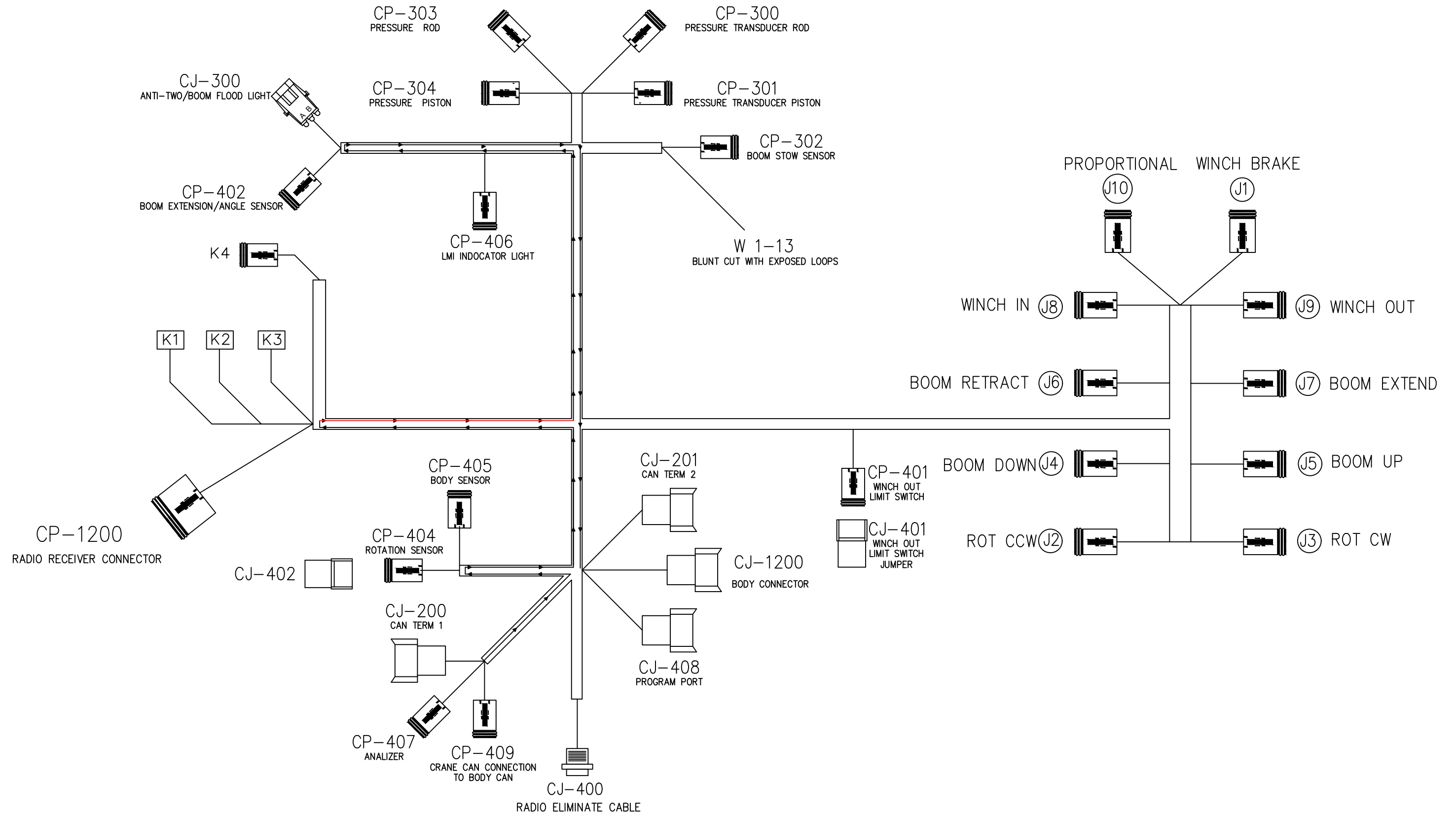
Harness-S4 SP Crane (77441718) Nail Board View



Harness-S4 SP Crane (77441718) Schematic View



Harness-S4 SP Crane (77441718) Nail Board View



Harness-S4 SP Crane (77441718) Circuit Charts 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	SLP L	-
D2	-	-	-	TO	-	-
D3	BLK	20	EXTENSION IN GND	TO	J6	1
D4	BLK	20	THROTTLE GND	TO	J10	1
E1	-	-	-	TO	-	-
E2	-	-	-	TO	-	-
E3	BLK	20	ROTATE CCW GND	TO	J2	1
E4	WHT	20	BOOM DOWN	TO	J4	2
F1	-	-	-	TO	-	-
F2	-	-	-	TO	-	-
F3	BLK	20	ROTATE CW GND	TO	J3	1
F4	WHT	20	BOOM UP	TO	J5	2
G1	WHT	20	RS-232-RX	TO	CP-407	1
G2	WHT	20	RS-232-TX	TO	CP-407	2
G3	-	-	-	TO	-	-
G4	WHT	20	EXTENSION OUT	TO	J7	2
H1	WHT	20	BOOM FLOOD REQ	TO	CJ-1200	12
H2	WHT	20	BOOM STOW	TO	CP-302	C
H3	-	-	-	TO	-	-
H4	WHT	20	EXTENSION IN	TO	J6	2
J1	WHT	20	WINCH OUT SIGNAL	TO	CP-401	4
J2	RED	20	SYSTEM ENABLE	TO	SPL P	-
J3	-	-	-	TO	-	-
J4	WHT	20	WINCH OUT	TO	J9	2
K1	RED	20	ANALIZER PWR	TO	CP-407	3
K2	BLACK	20	ANALIZER GND	TO	CP-407	4
K3	-	-	-	TO	-	-
K4	WHT	20	WINCH IN	TO	J8	2
L1	BLACK	16	MASTER GROUND 1	TO	SPL G	-
L2	-	-	-	TO	-	-
L3	WHT	16	SELECTOR	TO	CJ-1200	1
L4	WHT	16	COMPRESSOR	TO	CJ-1200	4
M1	BLACK	16	MASTER GROUND 2	TO	SPL G	-
M2	BLACK	16	MASTER GROUND3	TO	SPL G	-
M3	-	-	-	TO	-	-
M4	-	-	-	TO	-	-

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

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

HARNESS-S4 SP CRANE (77441718) CIRCUIT CHARTS 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

HARNESS-S4 SP CRANE (77441718) CIRCUIT CHARTS 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	26	CAN HIGH	TO	SPL H	-
8	GREEN	26	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		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	
				TO	-	

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

HARNESS-S4 SP CRANE (77441718) CIRCUIT CHARTS 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

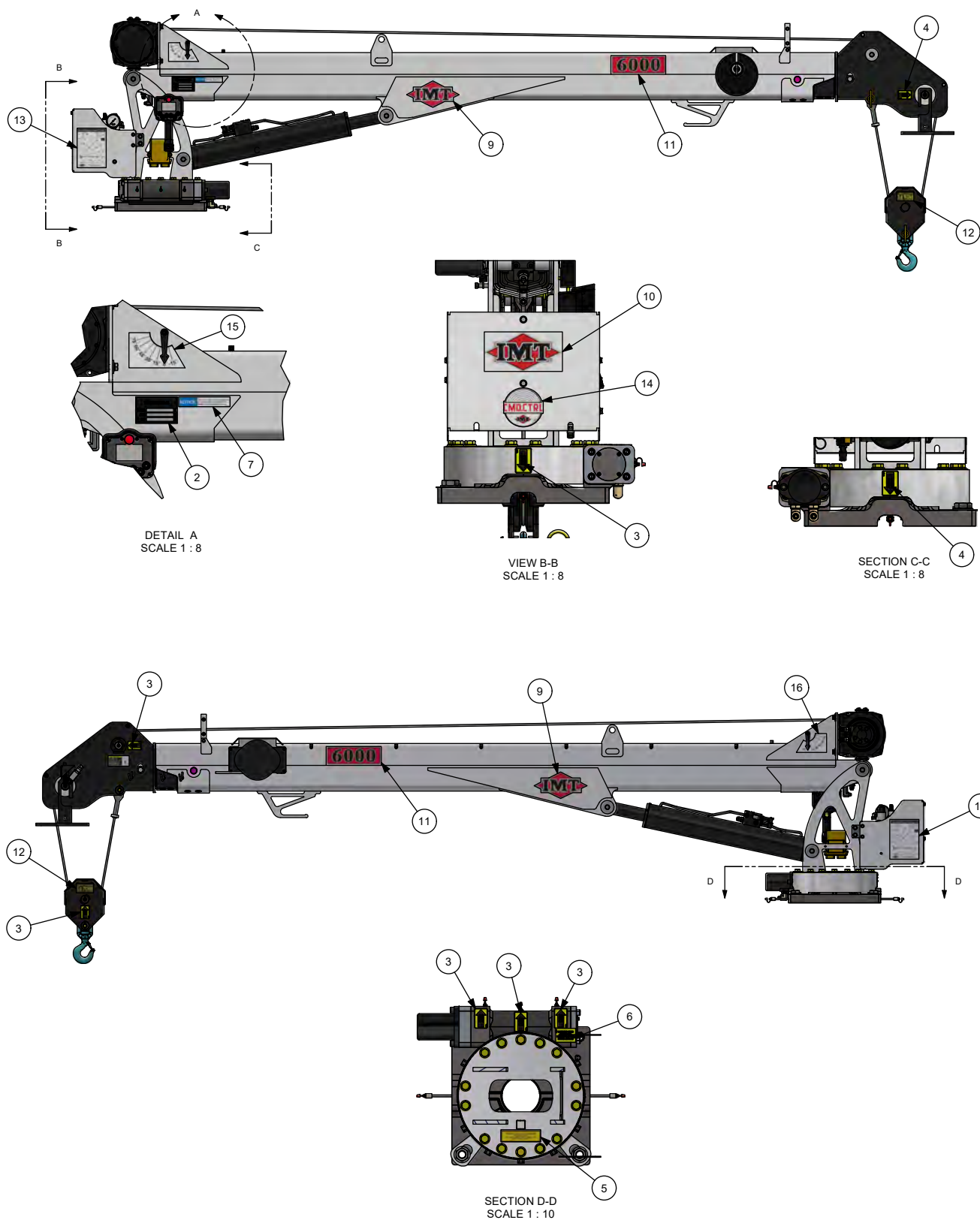
LOCATOR CODE: W-13				BLUNT CUT WITH EXPOSED LOOP		
CAVITY	COLOR	GA.	PRINT LABEL	TO	CON-SPLC	CAVITY
W1	RED	16	IGN POWER	TO	SPL P	-
W2	WHT	16	SP SELECT	TO	K3	F3
W3	WHT	16	FP SELECT	TO	K3	G4
W4	WHT	20	E-STOP	TO	K3	A4
W5	RED	16	IGN POWER	TO	SPL P	-
W6	WHT	20	ENGINE SPEED 2	TO	K1	C3
W7	WHT	20	WINCH BRAKE	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

Section - 8**General Information**

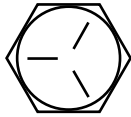
Decal Placement (99906801)

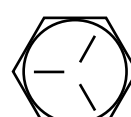


99906801 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	95728464	DECAL KIT-TELE COMMON 6000 S4	1	
2.	70029119	PLACARD-SERIAL NUMBER	1	
3.	70391612	DECAL-GREASE WEEKLY (LEFT)	6	1
4.	70391613	DECAL-GREASE WEEKLY (RIGHT)	2	1
5.	70392399	DECAL-LUBRICATE WORM	1	1
6.	70392524	DECAL-ROTATE CRANE WHILE GREAS	1	1
7.	70395324	DECAL-ASME/ANSI B30.5-TELESCOP	1	1
8.	70395670	DECAL-CAUTION DOWN HAUL WT	1	
9.	70398903	DECAL-DIAMOND IMT 5.00X10.00-REFLECTIVE	2	1
10.	70399195	DECAL-DIAMOND IMT 4.00X8.00 (REFL)	1	1
11.	70399339	DECAL-ID 6000	2	
12.	70490171	DECAL-3.0 TON LOAD BLOCK RATING WITH SNA	2	1
13.	70490310	DECAL-CP 6000H	2	
14.	70490435	DECAL-CMD.CTRL LOGO	1	1
15.	71399136	DECAL-ANGLE IND RH SIII	1	1
16.	71399137	DECAL-ANGLE IND LH SIII	1	1
REV. INITIAL RELEASE				

Thread Torque Charts - Imperial

FINE THREAD TORQUE CHART (IMPERIAL)					
SIZE	BOLT DIA.	GRADE 5		GRADE 8	
					
		SAE J429 GRADE 5		SAE J429 GRADE 8	
(DIA-TPI)	(INCHES)	PLAIN FT-LB	PLATED FT-LB	PLAIN FT-LB	PLATED FT-LB
5/16-24	0.3125	19	14	27	20
3/8-24	0.375	35	26	49	35
7/16-20	0.4375	55	41	78	58
1/2-20	0.5	90	64	120	90
9/16-18	0.5625	120	90	170	130
5/8-18	0.625	170	130	240	180
3/4-16	0.75	300	225	420	315
7/8-11	0.875	445	325	670	500
1-12	1	645	485	995	745
1 1/8-12	1.125	890	670	1445	1085
1 1/4-12	1.25	1240	930	2010	1510
1 3/8-12	1.375	1675	1255	2710	2035
1 1/2-12	1.5	2195	1645	3560	2670
REV. 20210504					

COURSE THREAD TORQUE CHART (IMPERIAL)					
SIZE	BOLT DIA.	GRADE 5		GRADE 8	
					
		SAE J429 GRADE 5		SAE F429 GRADE 8	
(DIA-TPI)	(INCHES)	PLAIN FT-LB	PLATED FT-LB	PLAIN FT-LB	PLATED FT-LB
5/16-18	0.3125	17	13	25	18
3/8-16	0.375	31	23	44	33
7/16-14	0.4375	49	37	70	52
1/2-13	0.5	75	57	105	80
9/16-12	0.5625	110	82	155	115
5/8-11	0.625	150	115	220	160
3/4-10	0.75	265	200	375	280
7/8-9	0.875	395	295	605	455
1-8	1	590	445	910	680
1 1/8-7	1.125	795	595	1290	965
1 1/4-7	1.25	1120	840	1815	1360
1 3/8-6	1.375	1470	1100	2380	1780
1 1/2-6	1.5	1950	1460	3160	2370
REV. 20210504					

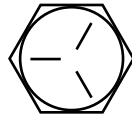
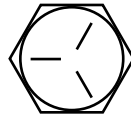
NOTES:

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	BOLT DIA.	GRADE 5		GRADE 8		SIZE	BOLT DIA.	GRADE 5		GRADE 8	
											
		SAE J429 GRADE 5		SAE J429 GRADE 8				SAE J429 GRADE 5		SAE F429 GRADE 8	
(DIA-TPI)	(INCHES)	PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)	(DIA-TPI)	(INCHES)	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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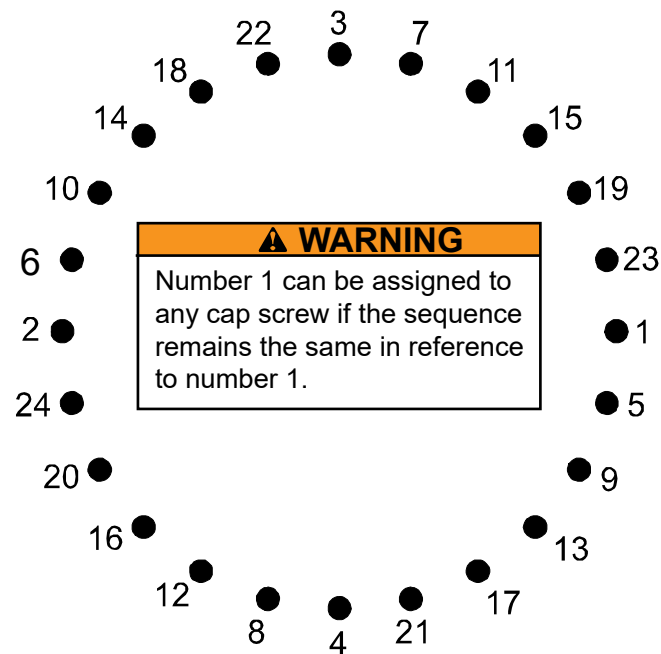
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Cross Torque Method - Turntable Bearing (General)



TIGHTENING PROCEDURE

1. Refer to the torque data chart to determine the proper torque value to apply to the size of cap screw used.
2. Follow the tightening sequence shown in the diagram. **Note:** the quantity of cap screws may differ from the diagram, but the sequence must follow the criss-cross pattern as shown in the diagram.
3. Torque all cap screws to approximately 40% of the specified torque value, by following the sequence.
 - (Example: $.40 \times 265 \text{ ft-lb} = 106 \text{ ft-lb}$)
 - (Example-metric: $.40 \times 36 \text{ kg-m} = 14.4 \text{ kg-m}$)
4. Repeat step 3, but torquing all cap screws to 75% of the specified torque value. Continue to follow the tightening sequence.
 - (Example: $.75 \times 265 \text{ ft-lb} = 199 \text{ ft-lb}$)
 - (Example-metric: $.75 \times 36 \text{ kg-m} = 27 \text{ kg-m}$)
5. Using the proper sequence, torque all cap screws to the listed torque value as determined from the torque data chart.

NOTES:

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

Revisions

[illegible]

Section - 9

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