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Manual 99906542

6000 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

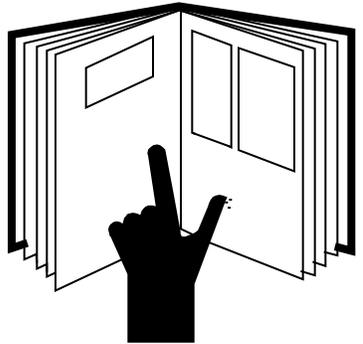
Prior to using any of the equipment installed on or incorporated in the IMT Crane Body Mechanics Truck, you must:

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



www.imt.com/service-manuals

INTRODUCTION

This volume includes specifications, installation information, and spare parts drawings applicable to your particular crane. For operating, maintenance and repair instructions, see *Telescopic Crane Operation, Maintenance, and Repair Manual* (IMT part number 99905190).

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)
FULLY RETRACTED LENGTH	12'-3" (3.73 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.	42.6" (108.3 cm)
	Vertical from bottom of crane base. 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 Seconds (Raise) 8 Seconds (Lower)
EXTENSION CYLINDERS (2)	Specifications: 59" x 56" (150 cm & 143 cm) Speed: 8 Seconds (Extend) 8 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.

Specifications

POWER SOURCE

PTO DRIVEN - Integral-mounted hydraulic pump and PTO application. Other standard power sources may be used. Minimum power required is 19.5* horsepower based on 10 gpm (37.9 L/min) at 3000 psi (206.8 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 3000 psi (206.8 Bar). It is equipped with a four-section, stack-type, electric, remote control valve with an RF remote-control system with a 30' (9.1 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 (1,361 kg) planetary winch is powered using a high-torque hydraulic motor. The lifting capacity of the winch is 3,000 lb (1,361 kg) one-part line. Maximum two-part line capacity is based on the maximum crane capacity. The winch is equipped with 80 ft (24.4 m) of 5/16" (7.9 mm), 6 x 19 FW IWRC EIPS wire rope. A compact, anti-two block device is included to prevent the lower block or hook assembly from coming in contact with the boom sheave assembly. The winch meets ANSI B30.5 standards.

NOTES:

1. The cab to axle (CA) dimension varies based on the configuration of the body, crane, and auxiliary equipment including welder decks. Make sure the CA is free and clear from obstructions everywhere except between the frame rails.
2. The Gross Vehicle Weight Rating (GVW) is a minimum guideline. Contact IMT if you have questions regarding your particular installation.
3. In addition to these specifications, heavy-duty electrical and cooling systems are required. It is recommended that the vehicle be equipped with an engine tachometer, auxiliary brake lock, and power steering.
4. Weight distribution calculations are required to determine final axle loading.
5. All chassis, cranes, and body combinations must be stability-tested per ANSI B30.5 requirements. The stability test can be found in Series III Telescopic Crane Operator's Manual, part number 99906578, Chapter 5, Crane Stability Testing.

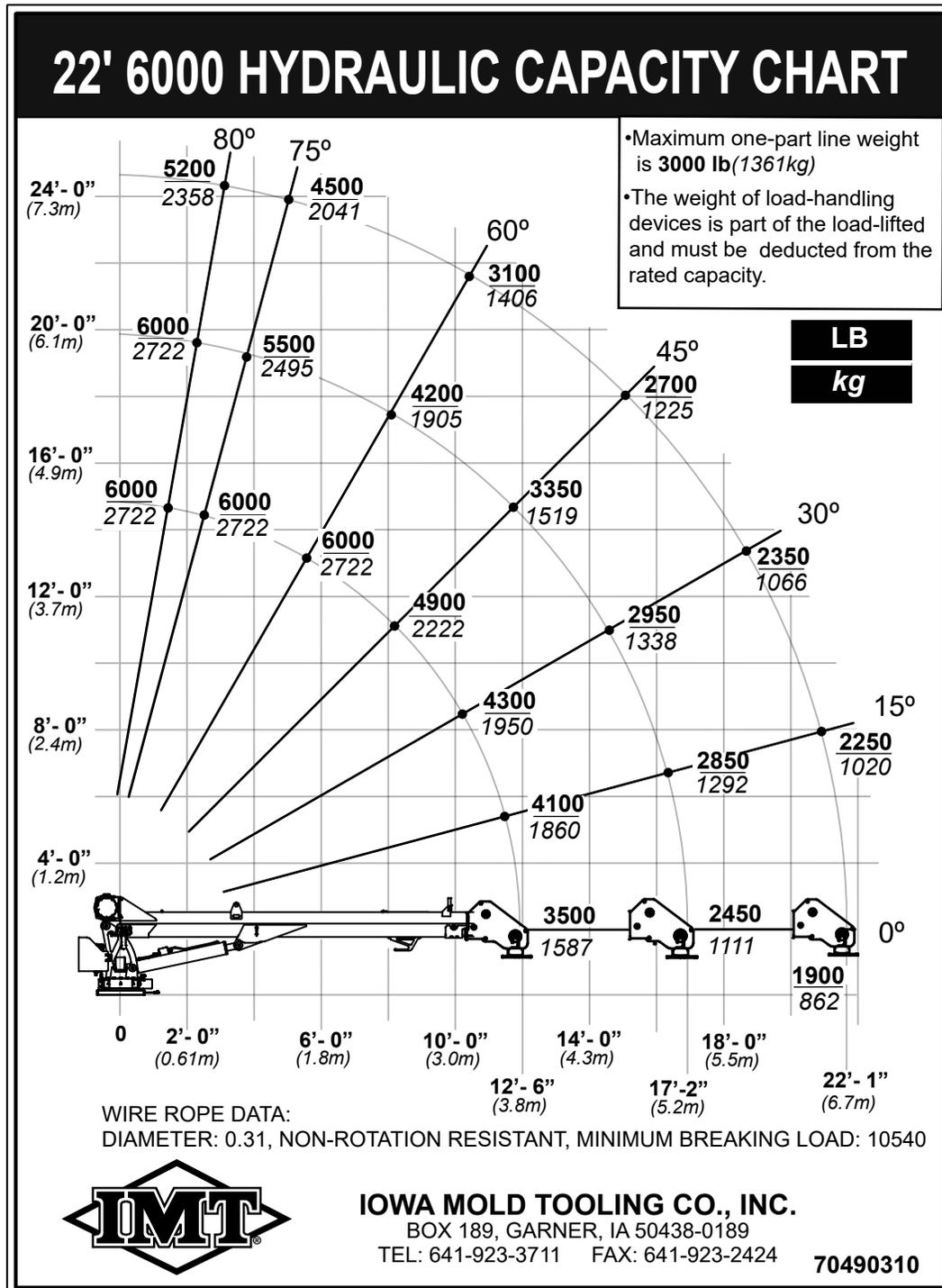
***All function speeds (except winch line speed) assume 90% hydraulic efficiency at 10 gpm.**

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

Section - 3

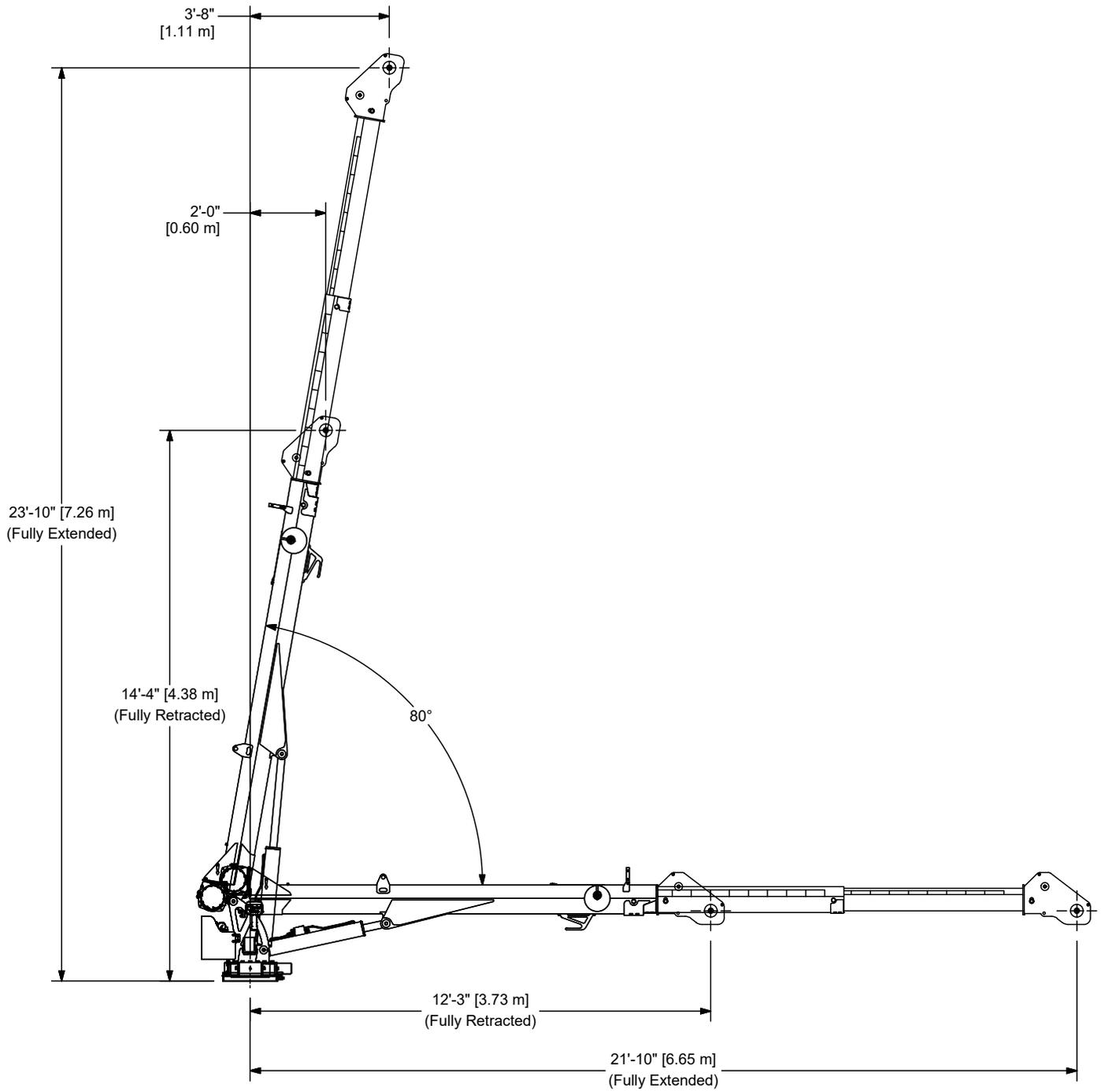
Load Capacity Charts

Load Capacity Chart

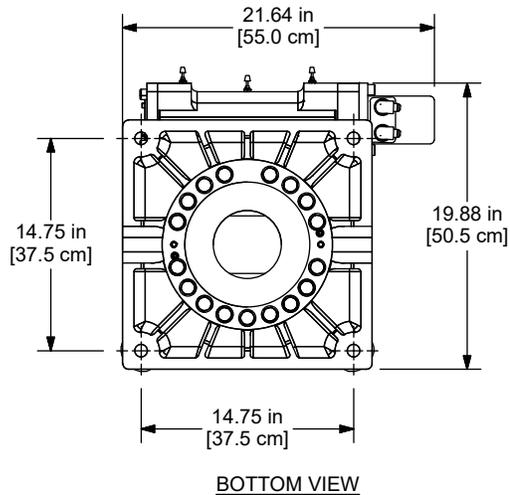
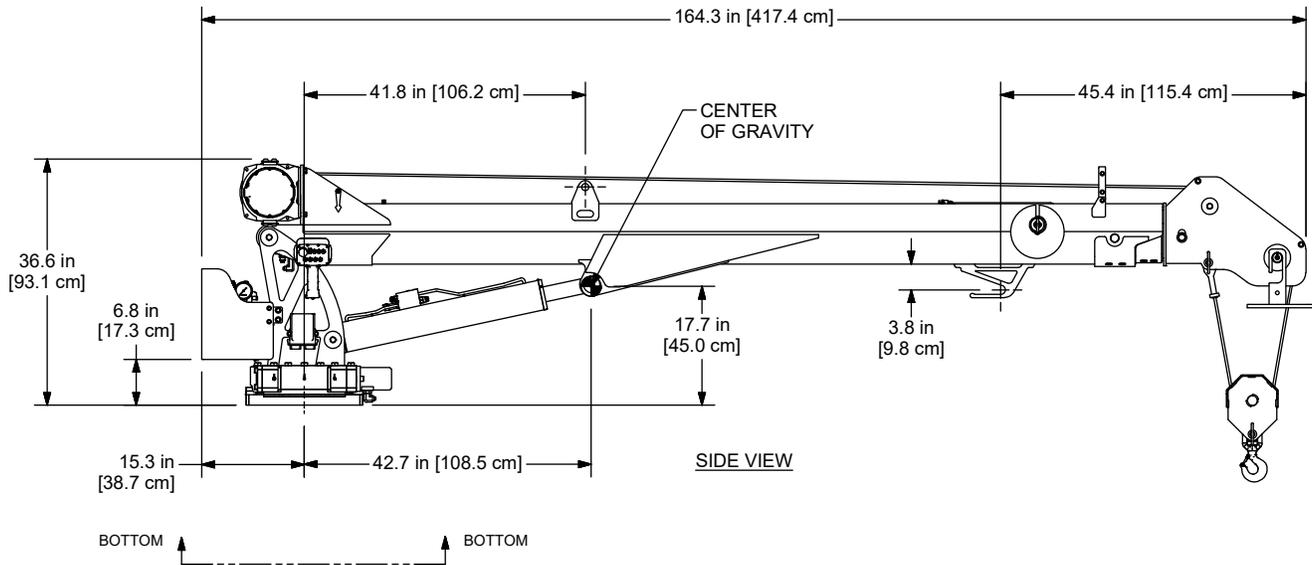
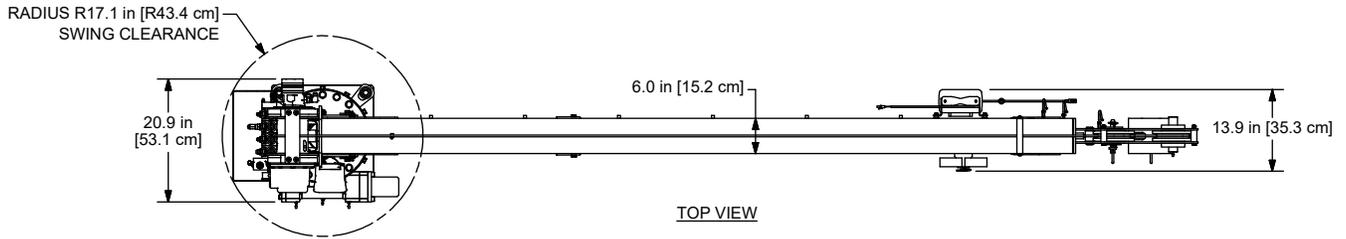


Section - 4 **Crane Installation**

Dimensional Drawings



Dimensional Drawing (continued)



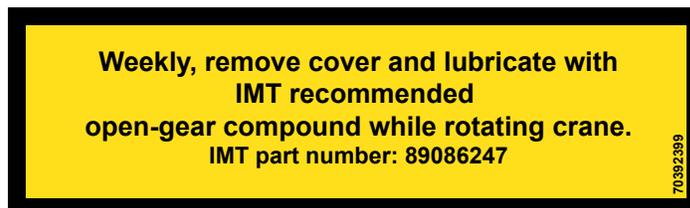
Greasing Instructions

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.

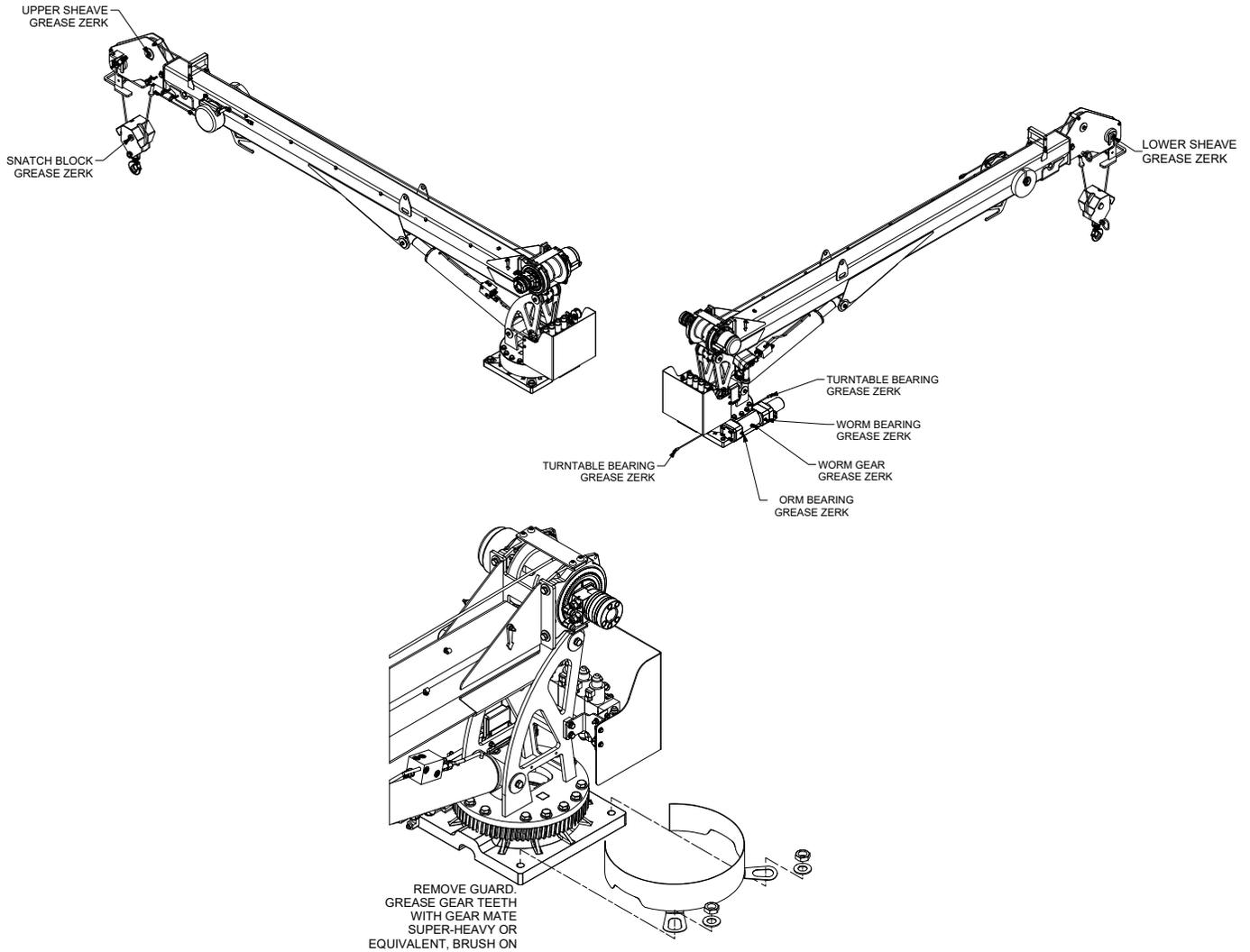
Crane grease zerks must be greased on a weekly basis during normal operating conditions. Under severe operating conditions the zerks must be greased more frequently. Each grease zerk is marked with a decal, "grease weekly", as shown. Rotate the worm gear bearing when greasing the worm gear bearing grease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



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	

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 critical or normal wear items during the first year of operations.

BASE & MAST		
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		
60030594	WEAR PAD-RND 0.25X 1.00X .38X .81	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	4
60030586	WEAR PAD-RND 0.19X 1.63X .60X .81	2
60030582	WEAR PAD-RC 0.38X3.75X1.38 THREADED	2
60030581	WEAR PAD-RC 0.38X5.63X1.38 THREADED	2
60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44	4
70034577	BEARING MRP 1.50X1.75X0.38	2
70034580	BEARING MRP 1.50X1.75X1.50 POLYGON	2
ANTI-TWO-BLOCK ASSEMBLY		
51727982	LIMIT SWITCH	1
RIGGING COMPONENTS		
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 (51727692)		
94490370	SEAL KIT-51727692	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)	2
70034586	POLYGON BUSHING (ROD)	2
RADIO REMOTE CONTROL & BASE		
70735093	TRANSM-RAD S3 SP EM 5LED FHSS 2400	1
70735094	RECEIVER-RAD S3 SP 5LED FHSS 2400	1
77041917	SWITCH-TOGGLE 3POS MOMENTARY CERVIS TRAN	3-7
77041918	SWITCH-E STOP CERVIS PISTOL GRIP TRANS	1
77441552	CAP & CHAIN OMNEX & CERVIS TRANSMITTERS	1 OR 2
71415460	MAGNET-TELE RAD REM TRANS W SCREW CERVIS	1

EXTENSION CYLINDER (51727693)		
PART NO.	DESCRIPTION	QTY.
73050217	VALVE-CBAL SUN01 CBCG-LGN 5000 PSI	1
94490379	SEAL KIT	1
WINCH (70571269)		
32000231	GASKET	1
32000385	SCREW - SET	1
73511461	MOTOR-HYD 3.0CI, 4 BOLT	1
70735238	BRAKE ASSY, 3000# HOIST	1
VALVE BANK (73734472)		
90744198	COIL-PSL 12VDC DEUTSCH	1
77041930	SOLENOID TUBE USED ON 73540375	1

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 (see the Installation Section of the *IMT SIII Telescopic Crane Operator's Manual (99906578)*).

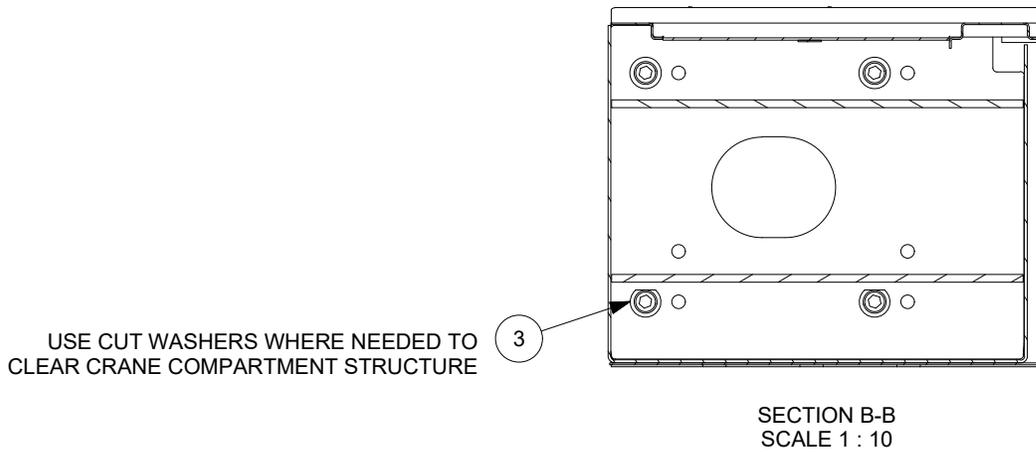
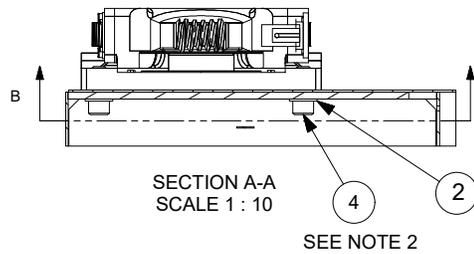
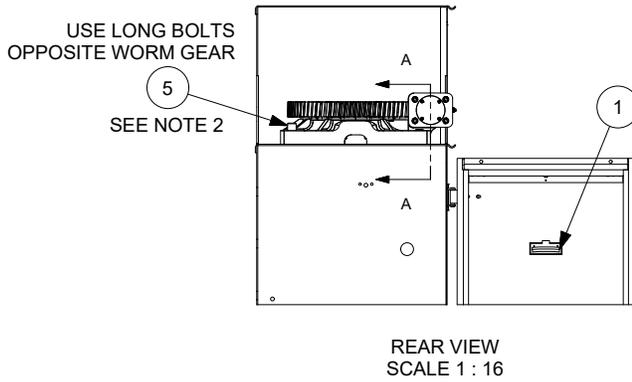
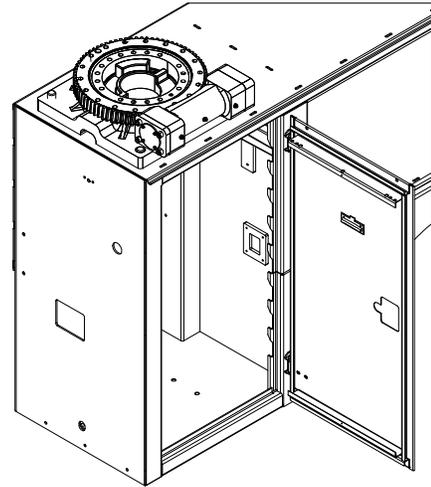
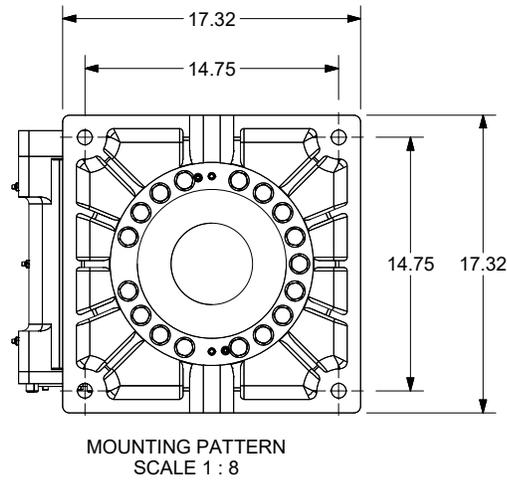
Reinforce the chassis frame, as necessary, and install the PTO and pump.

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. Install the crane only on an IMT designed and approved truck body. The body must be designed to sustain the forces imposed by the crane when lifting the full rated load. In addition, an IMT designed 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.

Installation DOM 1 (99906541)



99906541 PARTS LIST

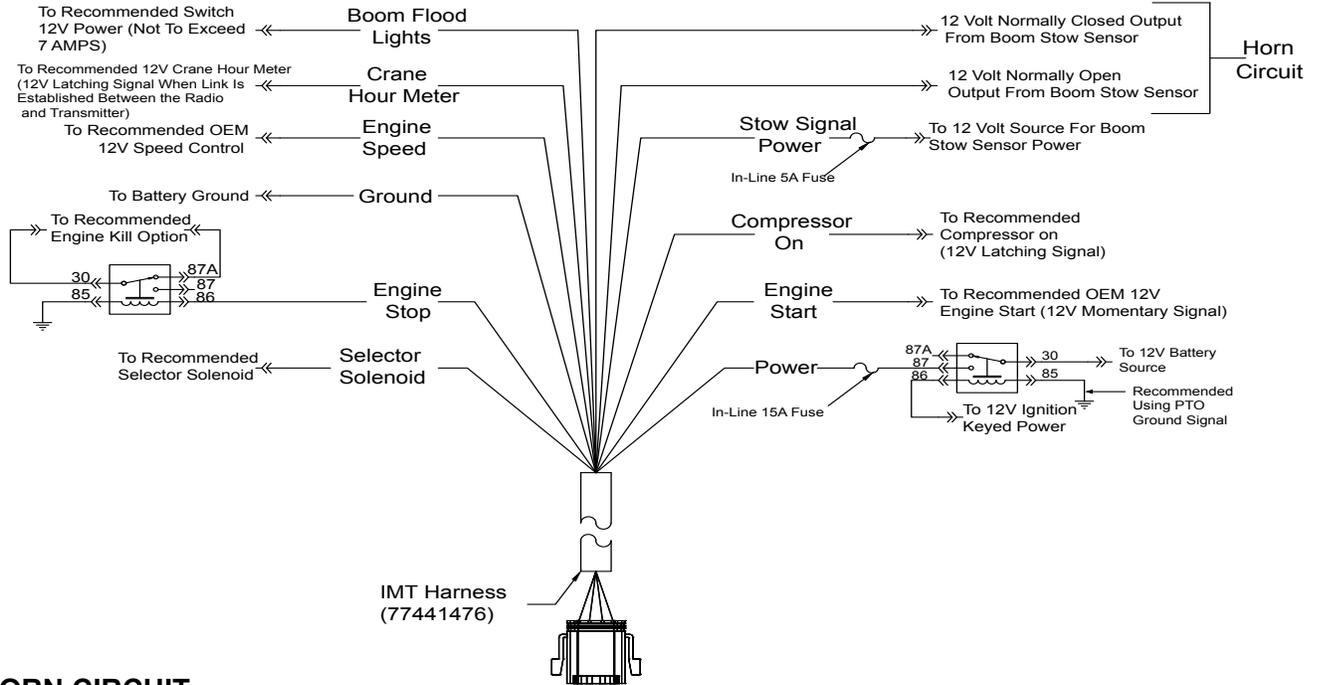
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	72042097	LEVEL INDICATOR LEVEL	1
2	72063066	WASHER 1.00 FLAT HI STR	4
3	72063286	WASHER-FLAT 1.00 H ASTM F436 Z-CUT	2
4	72602151	CAP SCR 1.00- 8X 2.50 SH PLAIN	2
5	72602167	CAP SCR 1.00- 8X 3.25 SH PLAIN	2
REV. INITIAL RELEASE			

NOTE:

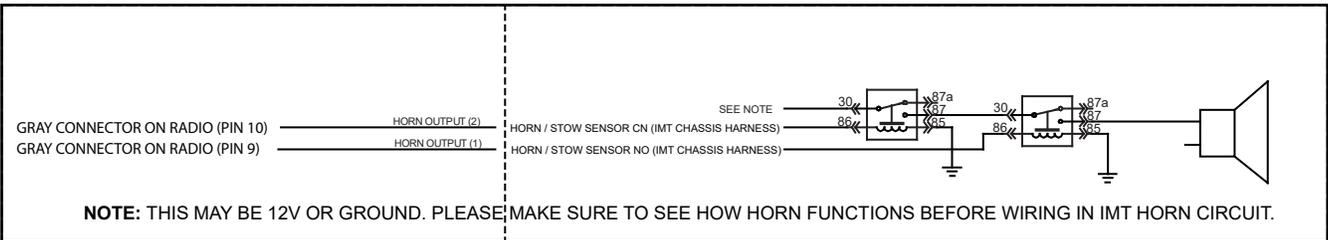
1. THE 2.50" AND 3.25" BOLTS SUPPLIED ARE PART OF THE CRANE INSTALLATION KIT. DETERMINE THE CRANE BOX TOP PLATE THICKNESS PRIOR TO MOUNTING. IF DIFFERENT LENGTH BOLTS ARE REQUIRED THEY MUST BE 1-8, GRADE 8, ZINC COATED, AND OF PROPER LENGTH. ENSURE BOLTS REACH THROUGH ROTATOR BASE WHEN INSTALLED.
2.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

Chassis Wiring Harness (77441476 / 99905212)

ADDITIONAL INSTALLATION COMPONENTS, NON-IMT BODY (93713748)



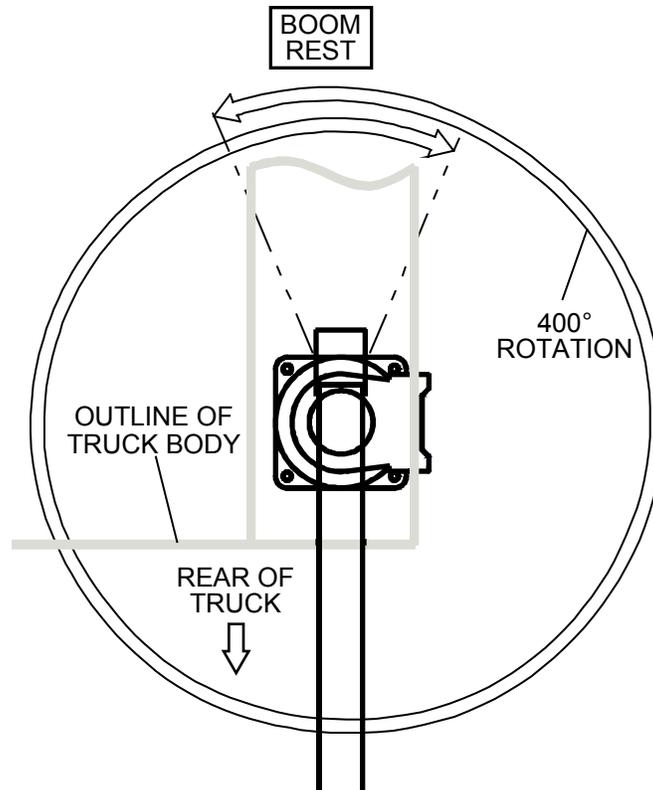
HORN CIRCUIT



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.



Sleeve 60350105



Viewed looking up from crane box. The pressure, return, and rotation hoses are wrapped in the 60350105 hose sleeve.

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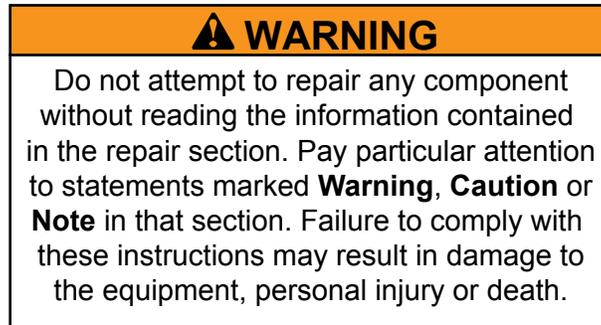
Section - 5

Parts

Parts Information

GENERAL

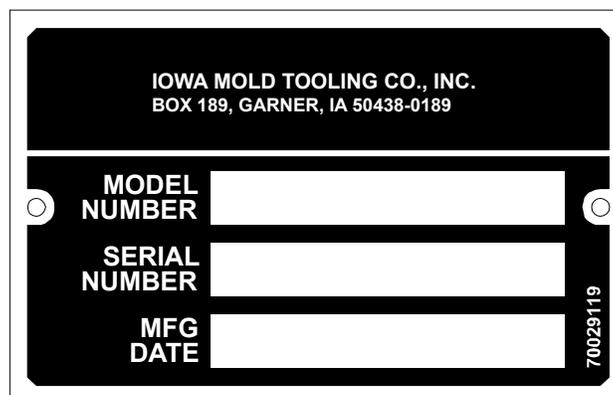
This section contains the exploded parts drawings and accompanying parts lists for the assemblies used on this crane. These drawings are intended to be used in conjunction with the instructions found in the maintenance and repair manuals for this crane family. For optional equipment such as winches and remote controls, refer to the appropriate service manual.



CRANE IDENTIFICATION

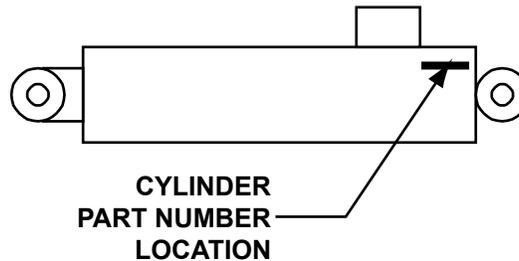
Every IMT crane has an identification placard (see figure below). This placard is attached to the inner boom, mast, or crane base. When ordering parts, communicating warranty information, or referring to the unit in correspondence, always include the serial number and model numbers. Address all inquiries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

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



CYLINDER IDENTIFICATION

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



WELDMENT IDENTIFICATION

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

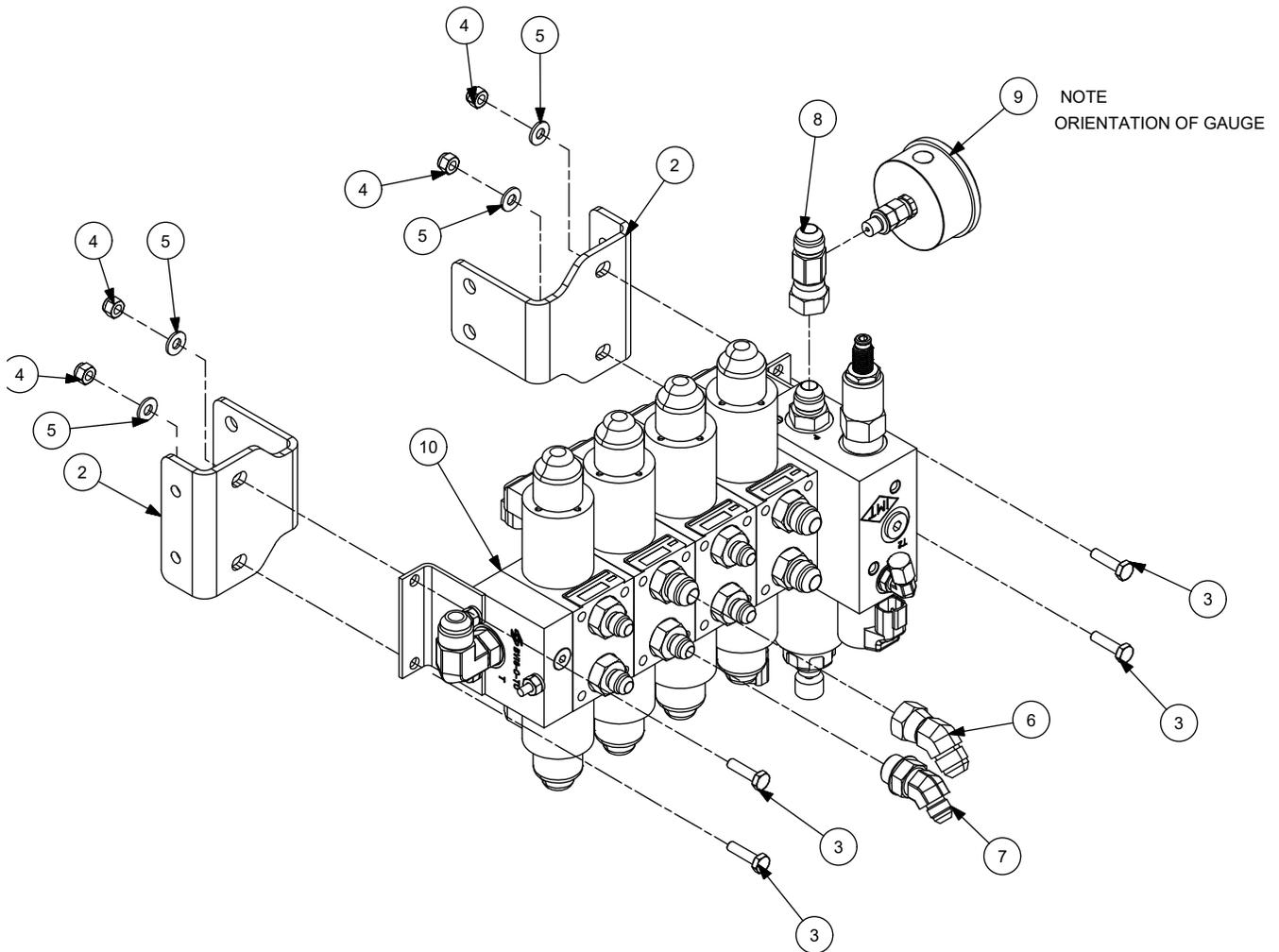
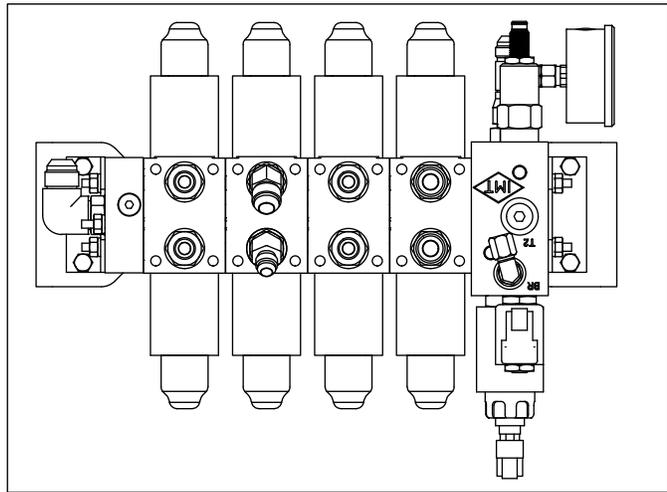
WHEN ORDERING REPLACEMENT PARTS:

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.



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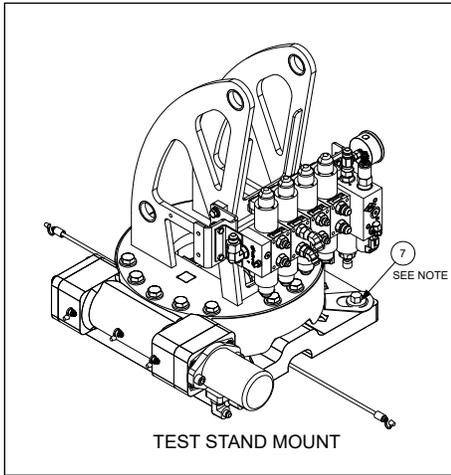
Valve Bank Assembly SP (99906597)



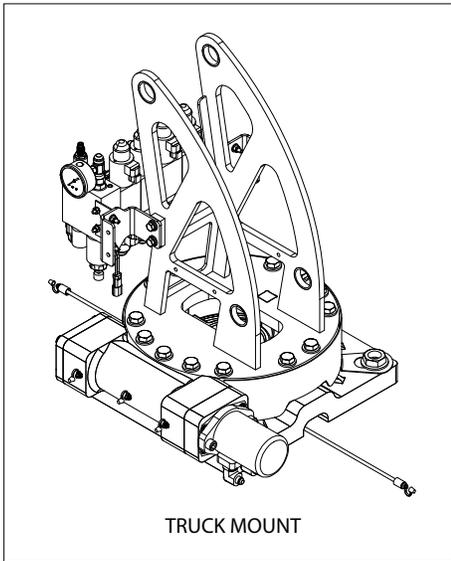
99906597 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	51728093	KIT-HRDW SERIES 3 SP VALVE BANK	1	
2.	60146300	BRKT-MAST VB 5000/6000	2	
3.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	4	1
4.	72062104	NUT .25-20 HEX NYLOCK	4	1
5.	72063001	WASHER .25 FLAT	4	1
6.	72532670	ELBOW-M JIC/45/F JIC 8 8	1	
7.	72533583	ELBOW-M STR/45/M JIC 8 6	1	
8.	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1	
9.	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1	
10.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69	1	
REV. INITIAL RELEASE				

Base Assembly (99906539)

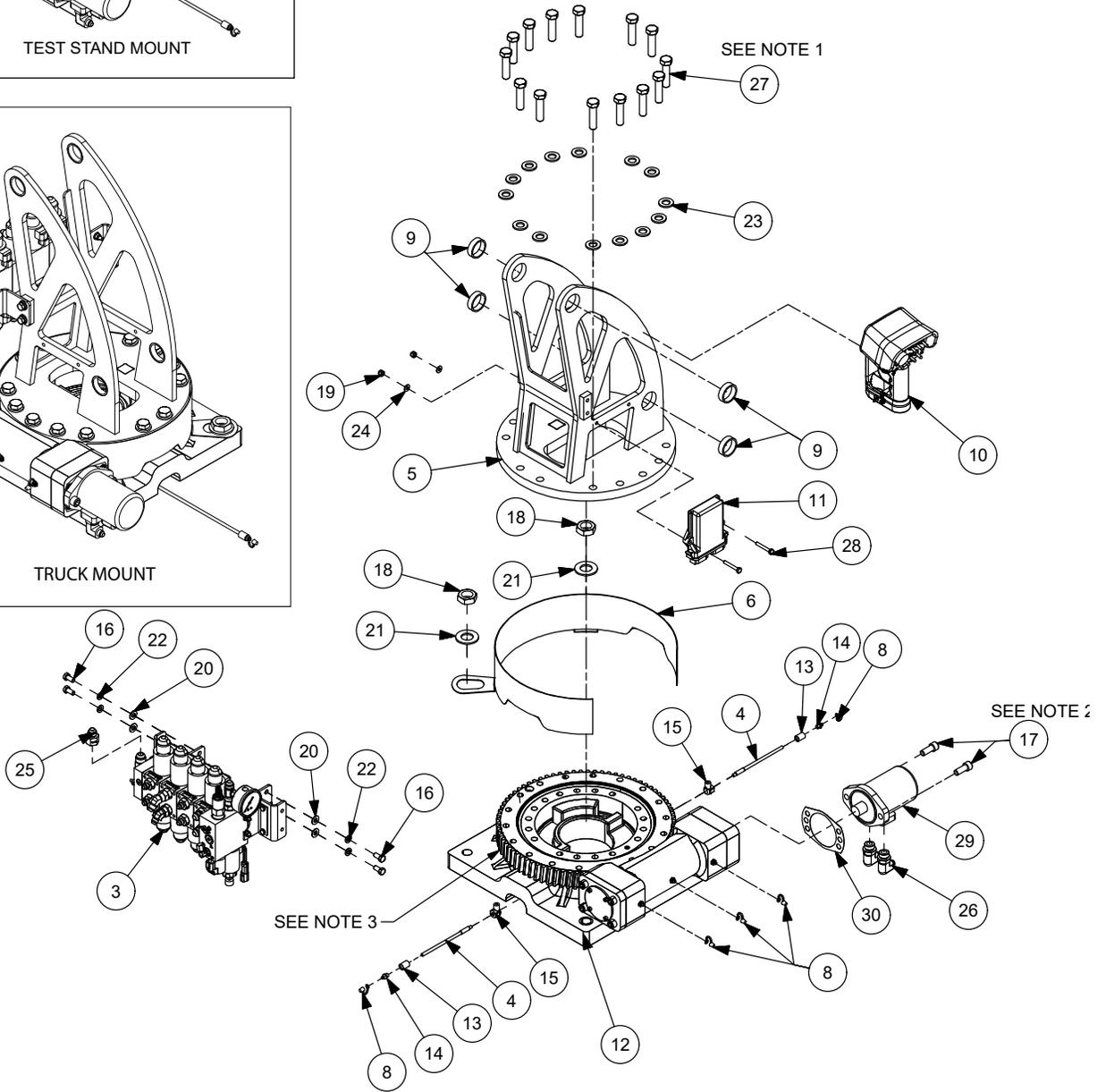


TEST STAND MOUNT



TRUCK MOUNT

NOTE:
PLUGS ARE ONLY USED WHILE CRANE IS MOUNTED ON TEST STAND.



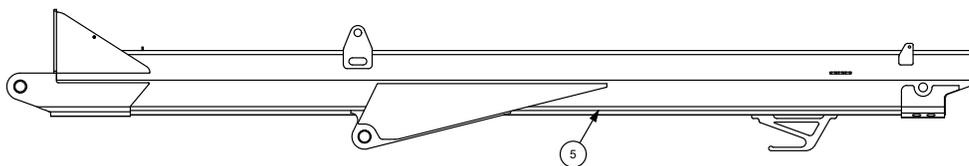
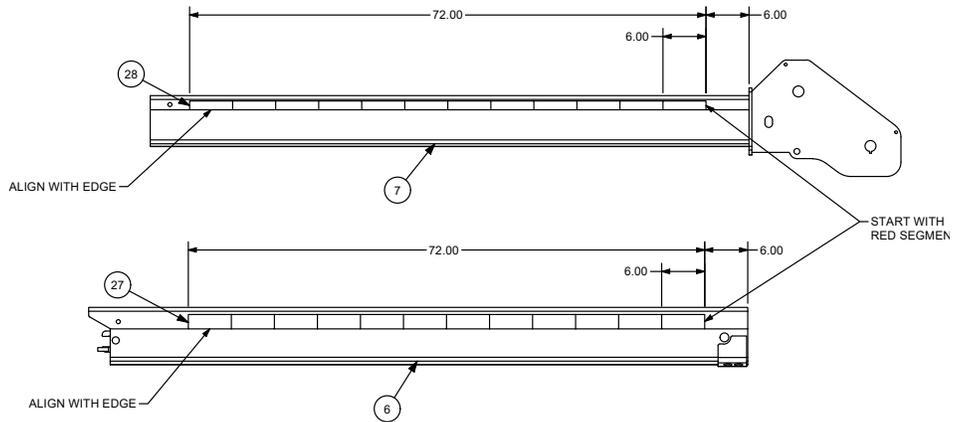
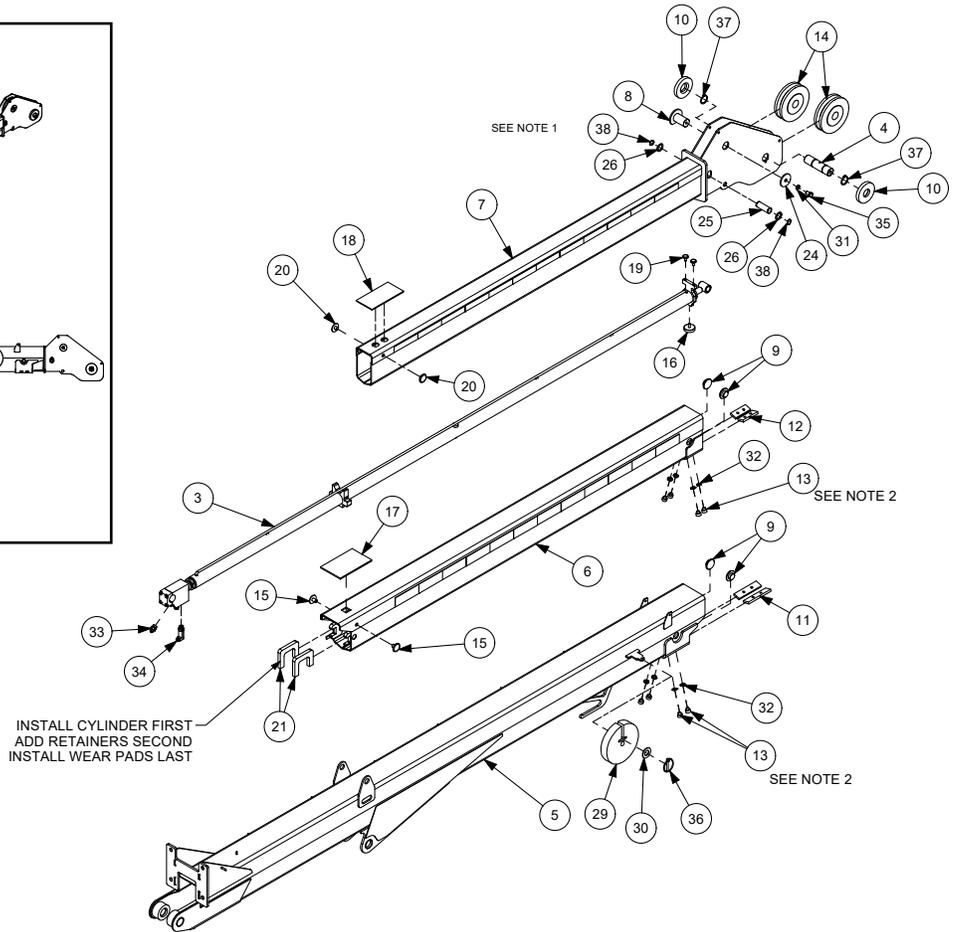
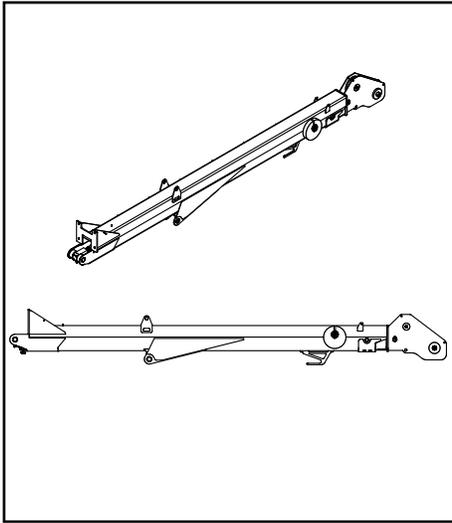
99906539 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	51727921	KIT-HRDW 5000/6000 BASE ASM	1	
2.	91727933	KIT-HYD 5000/6000	1	
3.	99906597	DWG-VALVE BANK ASM SP	1	
4.	51490385	HOSE-AA .13 X 4.50 (2-2) 100R17	2	
5.	52727684	MAST WLDMNT-5000/6000	1	
6.	60146052	SHROUD- TURNTABLE GEAR 5000/6000	1	
7.	70029595	THREADED PLUG 1.00-8 (3816)	2	
8.	70034382	CAP-GREASE PRO20 GC-RED	5	
9.	70034578	BEARING MRP 1.50X1.75X0.50	4	
10.	70735093	TRANSM-RAD S3 SP EM 5LED FHSS 2400	1	
11.	70735094	RECEIVER-RAD S3 SP 5LED FHSS 2400	1	
12.	71056705	GEAR ROTATOR 5000/6000	1	
13.	72053301	COUPLING-GLV .12 SCH 40	2	
14.	72053508	ZERK-NPT .12	2	
15.	72053589	ELBOW-STREET BRS .12 X 90 DEG	2	
16.	72060044	CAP SCR .38-16X .75 HH GR5 Z	4	1
17.	72060794	CAP SCR .50-13X 1.25 SH PLAIN	2	1
18.	72061807	NUT 1.00- 8 HEX GR2 Z JAM	2	1
19.	72062194	NUT-SS .25-20 NYLOC	2	1
20.	72063003	WASHER .38 FLAT	4	1
21.	72063010	WASHER 1.00 FLAT	2	1
22.	72063051	WASHER .38 LOCK	4	1
23.	72063119	WASHER .62 FLAT ASTM F436	14	1
24.	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	2	1
25.	72532669	ADPTR-M JIC/F JIC 8 10	1	2
26.	72533331	ELBOW-M STR/90/M JIC 10 6	2	2
27.	72601482	CAP SCR .62-11X 2.50 HH GR8 Z	14	1
28.	72602161	CAP SCR .25-20X 1.75 HH SS	2	1
29.	73051919	MOTOR-HYD (101-2638-009)	1	
30.	76039295	GASKET-GEA19 008-10056-1	1	
REV. D CN1207 & 1207-1				

NOTES:

1. TORQUE TO 160 FT-LB.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.

Boom Assembly (99906540)



99906540 PARTS LIST

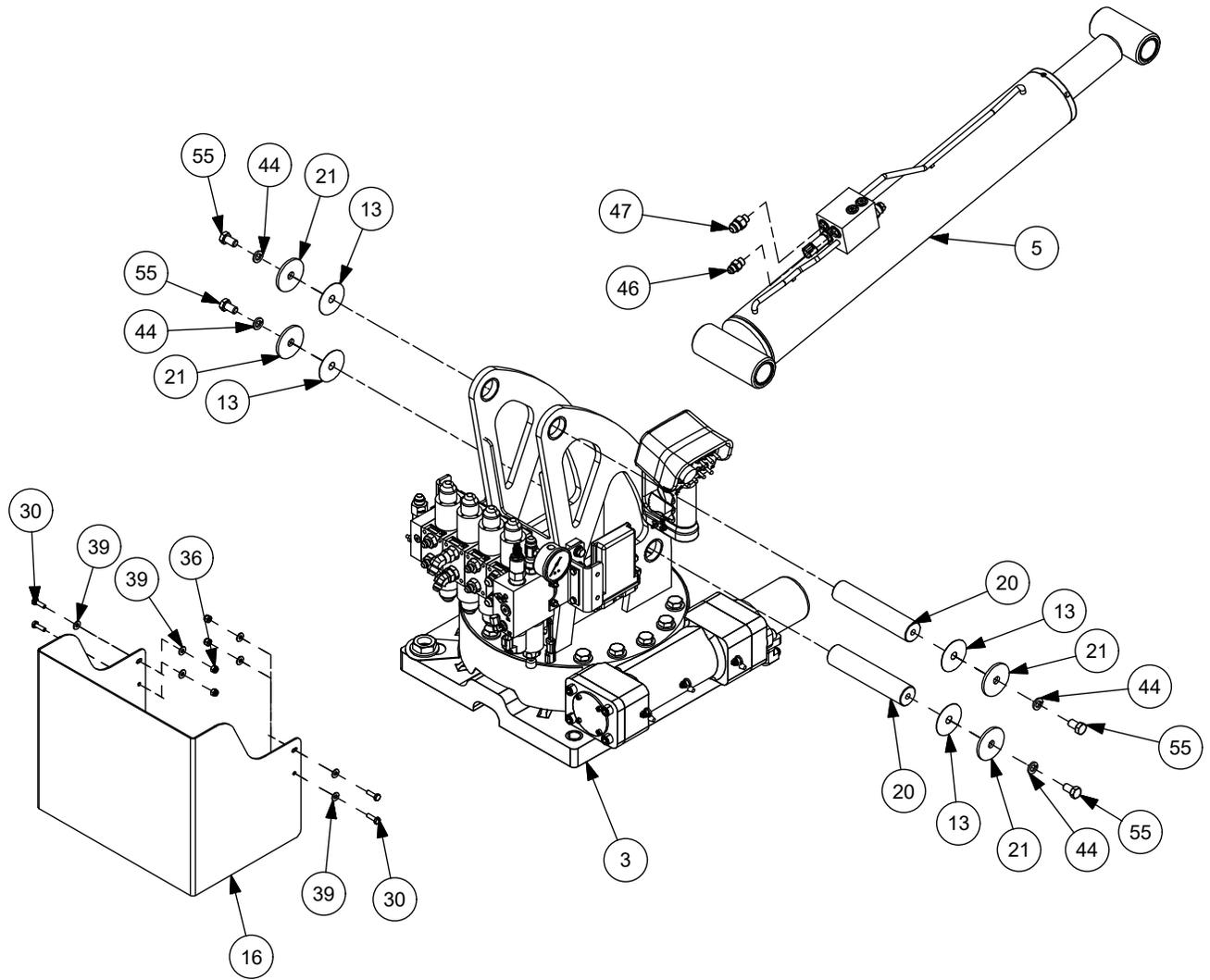
ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	51727922	KIT- HRDW 5000/6000 BOOM ASM	1	
2.	91727933	KIT-HYD 5000/6000	1	
3.	51727693	CYL - 1.75/1.00 59.00S 56.13S	1	
4.	51727745	FLIP SHEAVE PIN ASM	1	
5.	52727686	WLDMNT-LOWER BOOM 5000/6000	1	
6.	52727689	WLDMNT-1ST STAGE EXT BOOM 5000/6000	1	
7.	52727691	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.	60030581	WEAR PAD-RC 0.38X5.63X1.38 THREADED	2	
12.	60030582	WEAR PAD-RC 0.38X3.75X1.38 THREADED	2	
13.	60030583	BOLT-SOCKET HEAD WEAR PAD INSTALL	8	
14.	60030584	SHEAVE- 7.00 POLYMER 1.88 WIDE	2	
15.	60030586	WEAR PAD-RND 0.19X 1.63X .60X .81	2	
16.	60030591	WEAR PAD-RND 5000/6000 EXT CYL	1	
17.	60030592	WEAR PAD-RC 0.25 X 8.00X 5.00	1	
18.	60030593	WEAR PAD-RC 0.19 X 8.00X 4.00	1	
19.	60030594	WEAR PAD-RND 0.25X 1.00X .38X .81	2	
20.	60030597	WEAR PAD-RND 0.19X 1.63X .60X .44	2	
21.	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.	72063324	WASHER-STAR .50 ZINC	8	1
33.	72532356	ADPTR-M STR/M JIC 8 6	1	2
34.	72535033	ELBOW-M STR/90/M JIC 8 6 XL	1	2
35.	72602168	CAP SCR .50-13X .88 HH SS	1	1
36.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW	1	1
37.	72661774	RETAINING RING-EXT 1.50 HD YZ	2	1
38.	72661778	RETAINING RING-EXT 1.00 SS	2	1

REV. D CN1269

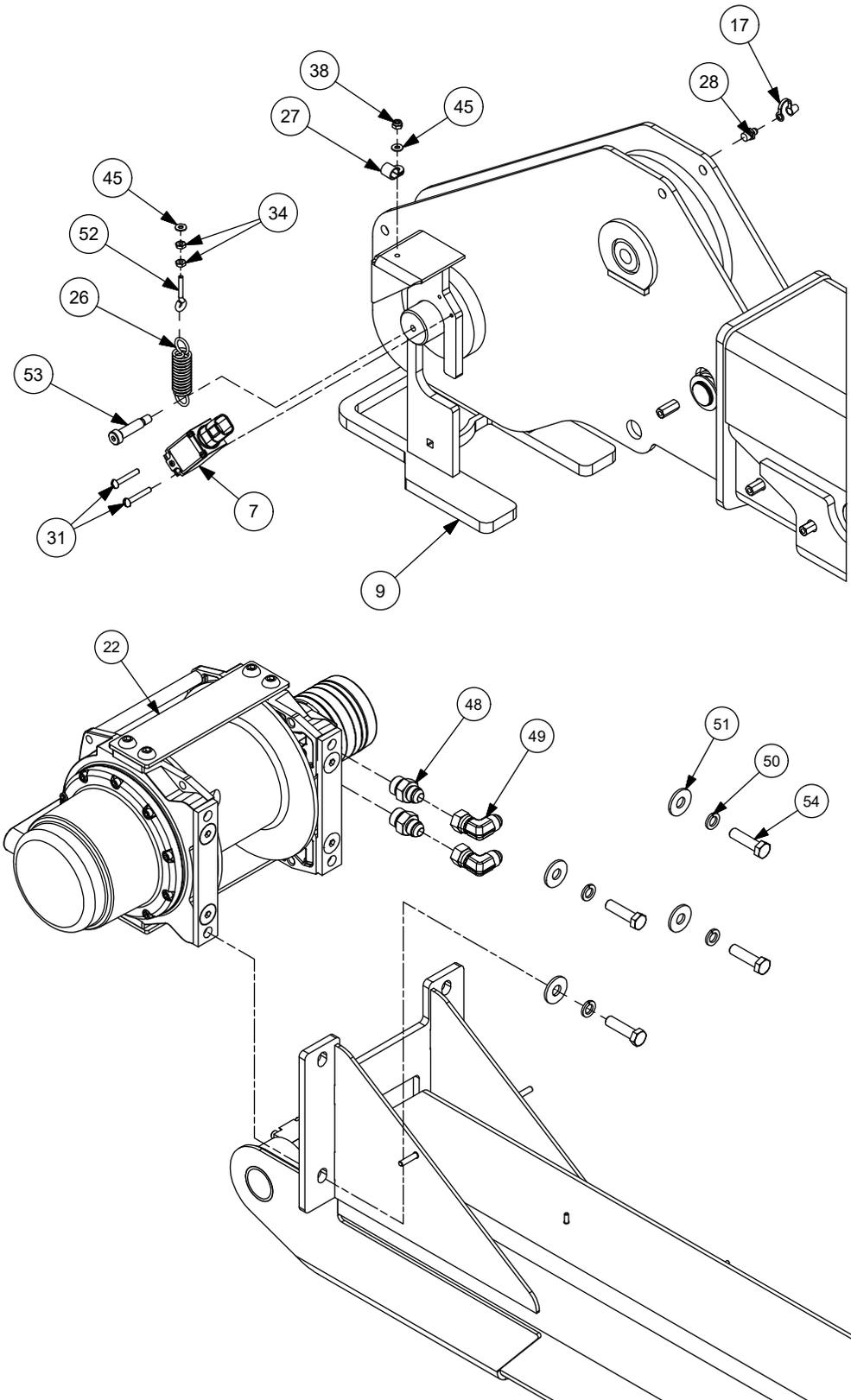
NOTES:

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

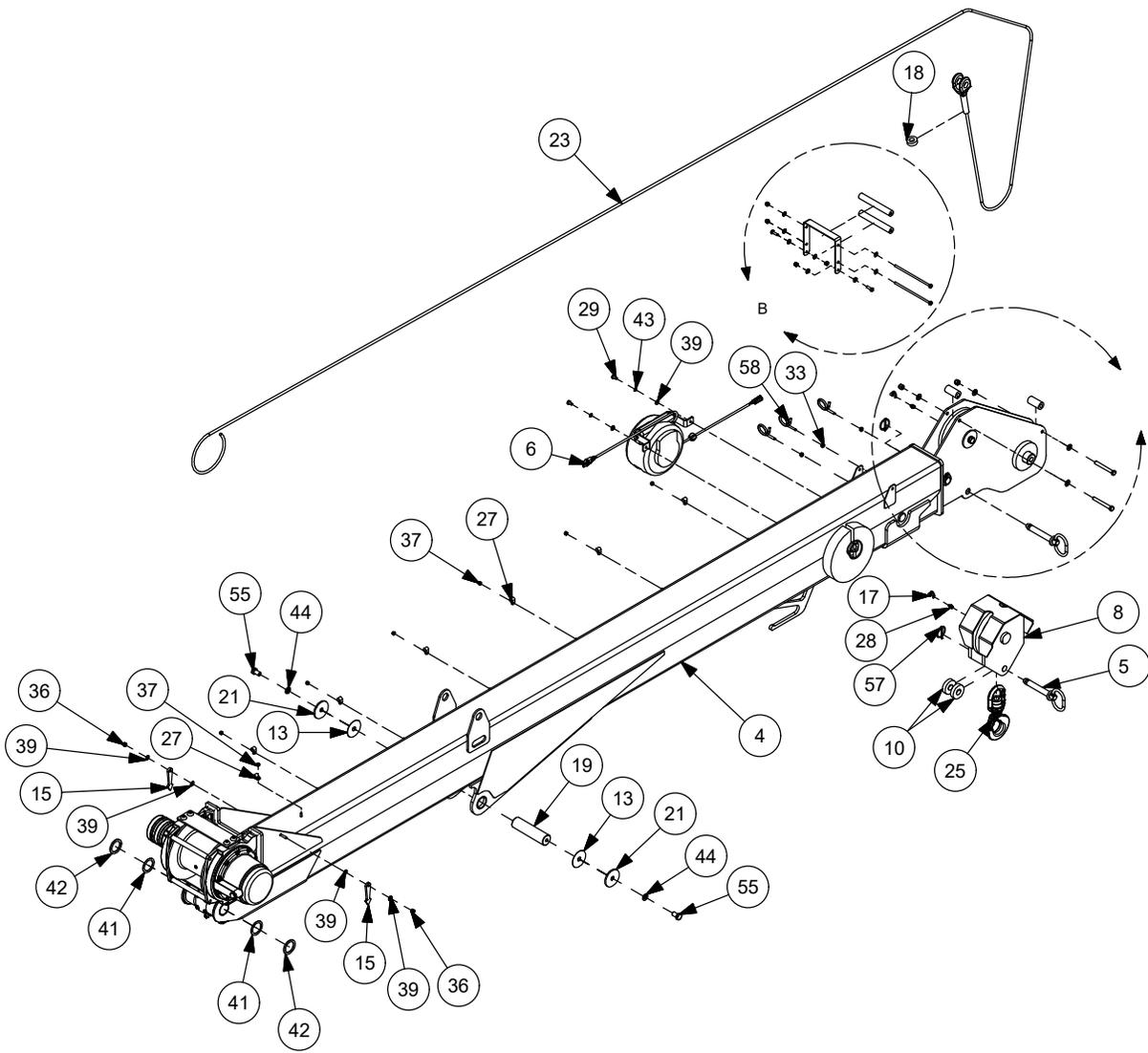
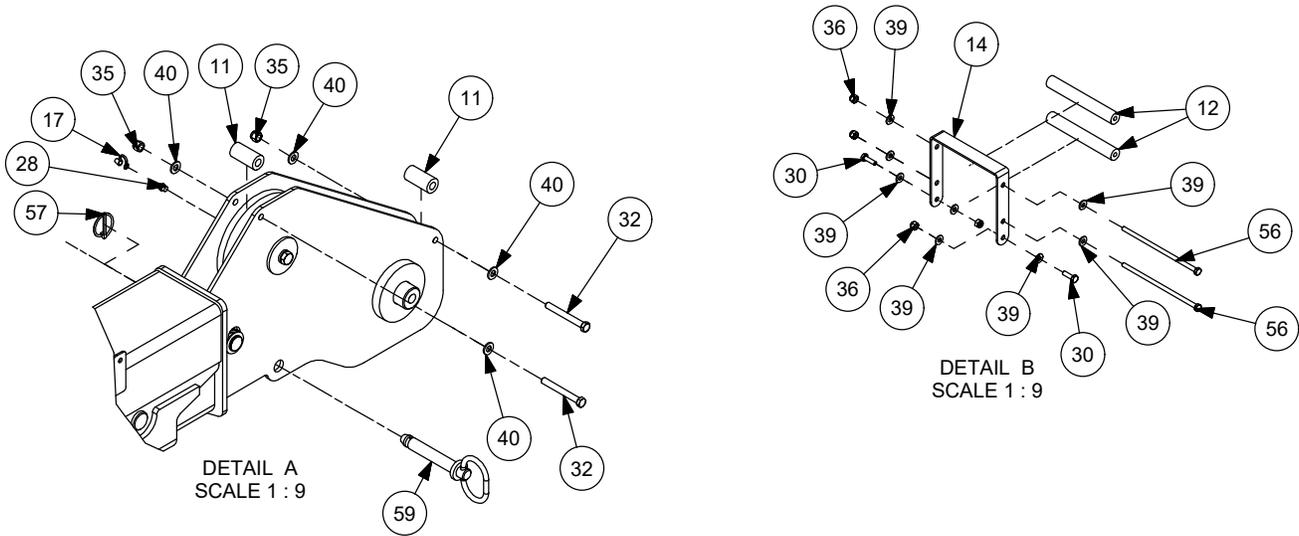
Base & Valve Bank Assembly (99906417)



Winch & A2B Assembly (99906417)



Crane Assembly (99906417)



99906417 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	MODEL	KIT NO.
1.	51727923	KIT-HRDW 5000/6000 CRANE ASM	1		
2.	91727933	KIT-HYD 5000/6000	1		
3.	99906539	DWG-BASE ASM 5000/6000	1		
4.	99906540	DWG-BOOM ASM 5000/6000	1		
5.	51728089	CYL - 3.75/2.25 25.06S	1	5000	
5.	51727692	CYL - 4.00/2.25 25.06S	1	6000	
6.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH	1		
7.	51727982	KIT-A2B LIMIT SWITCH NO TOP PIN DEUTSCH	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.	60146301	COVER-VLV BANK 5000/6000	1		
17.	70034382	CAP-GREASE PRO20 GC-RED	3		
18.	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN	1		
19.	70190001	PIN-TYPE AB 1.50X 5.75 SS	1		
20.	70190002	PIN-TYPE AB 1.50 X 7.25 SS	2		
21.	70190003	RETAINER PLT-PIN 0.19 X 2.50 DIA SS	6		
22.	70571269	WINCH-5000/6000 3000LB	1		
23.	70580228	WIRE ROPE ASM- .31 (6X19) X80FT	1		
24.	70733889	CABLE ASM-33ft BATT & RADIO ELIMINATION	1		
25.	70735100	HOOK-SWVL BBRG 3TON W/LATCH	1		
26.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	1		1
27.	72034485	CLAMP-PLASTIC 1/4" CABLE	8		1
28.	72053508	ZERK-NPT .12	3		
29.	72060000	CAP SCR .25-20X .50 HH GR5 Z	2		1
30.	72060003	CAP SCR .25-20X .88 HH GR5 Z	6		1
31.	72060639	SCR-MACH 10-24X 1.25 RDH	2		1
32.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	2		1
33.	72062000	NUT .25-20 HEX	3		1
34.	72062093	NUT # 8-32 HEX ZINC	2		1
35.	72062103	NUT .38-16 HEX NYLOCK	2		1
36.	72062104	NUT .25-20 HEX NYLOCK	10		1
37.	72062106	NUT 10-24 HEX NYLOCK	7		1
38.	72062207	NUT 8-32 HEX NYLOCK	1		1
39.	72063001	WASHER .25 FLAT	22		1
40.	72063003	WASHER .38 FLAT	4		1
41.	72063036	MACHY BUSHING 1.50X14 GA NR	2		
42.	72063037	MACHY BUSHING 1.50X10 GA NR	2		
43.	72063049	WASHER .25 LOCK	2		1
44.	72063144	WASHER-SS .50 LOCK TYPE 304	6		1
45.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	2		1
46.	72532355	ADPTR-M STR/M JIC 6 6	1		2
47.	72532357	ADPTR-M STR/M JIC 6 8	1		2
48.	72532359	ADPTR-M STR/M JIC 10 8	2		2
49.	72532658	ELBOW-M JIC/90/F JIC SW 8 8	2		2
50.	72601798	WASHER-LOCK 12MM	4		1
51.	72601800	WASHER-FLAT M12	4		1
52.	72601938	BOLT-EYE # 8-32X 1.125	1		1
53.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	1		1
54.	72602162	CAP SCR M12-1.75X 45 HHZ	4		1
55.	72602168	CAP SCR .50-13X .88 HH SS	6		1
56.	72602169	CAP SCR .25-20X 6.50 HH GR5 Z	2		1
57.	72661543	PIN-QUICK 316-10QP	2		1

99906417 PARTS LIST - CONTINUED

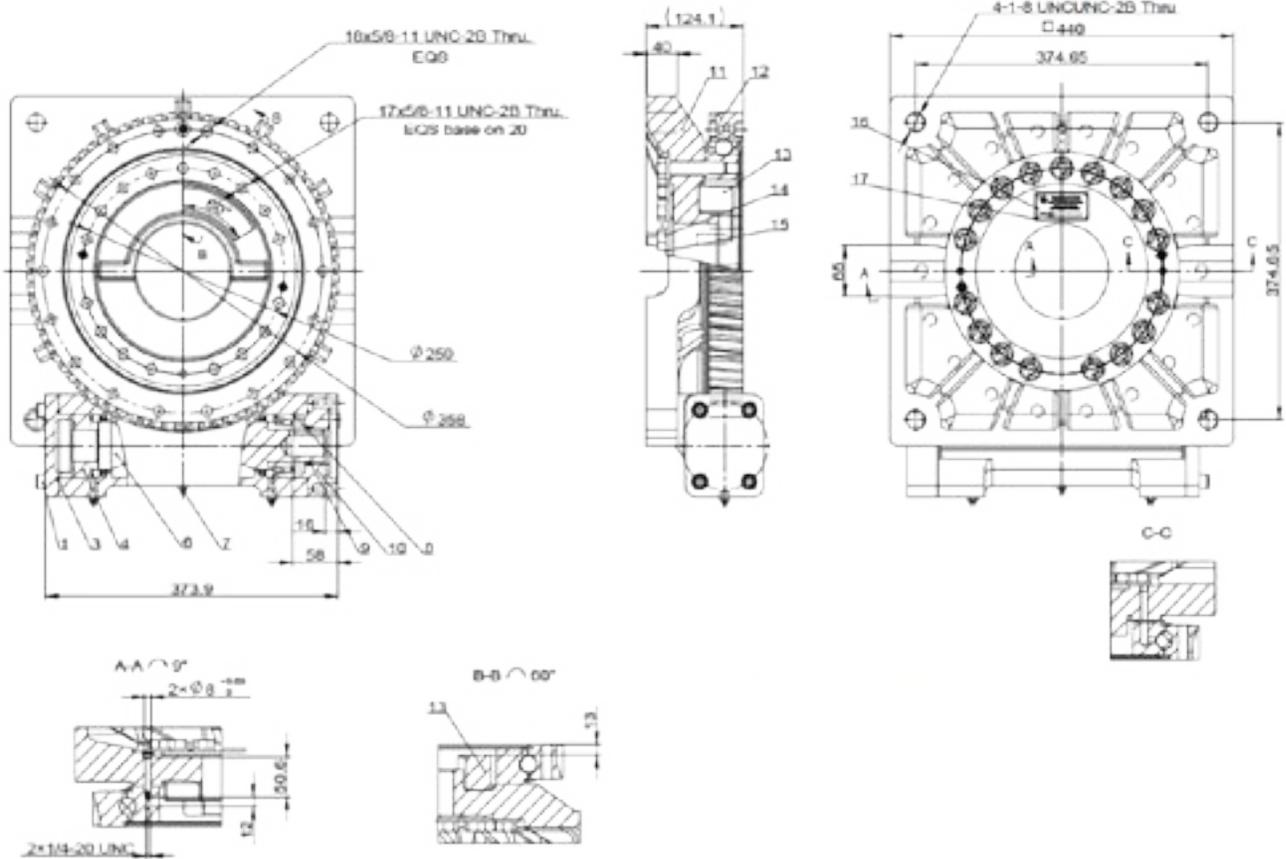
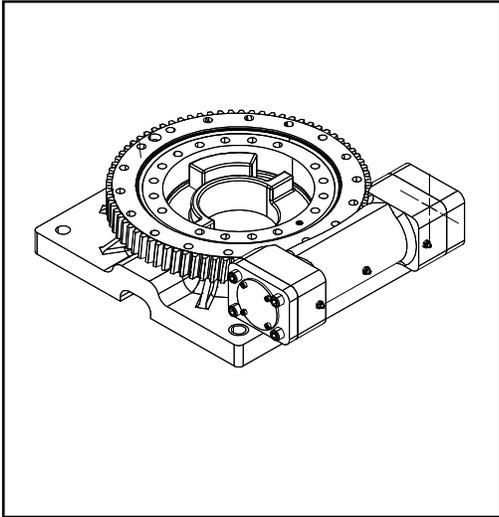
ITEM NO.	PART NO.	DESCRIPTION	QTY.	MODEL	KIT NO.
58.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	3		1
59.	73734752	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN	2		
60.	77441537	HARNESS-S3 TELE S-PROP VALVE BANK CERVIS	1		
REV. E CN1207-1					

NOTE:

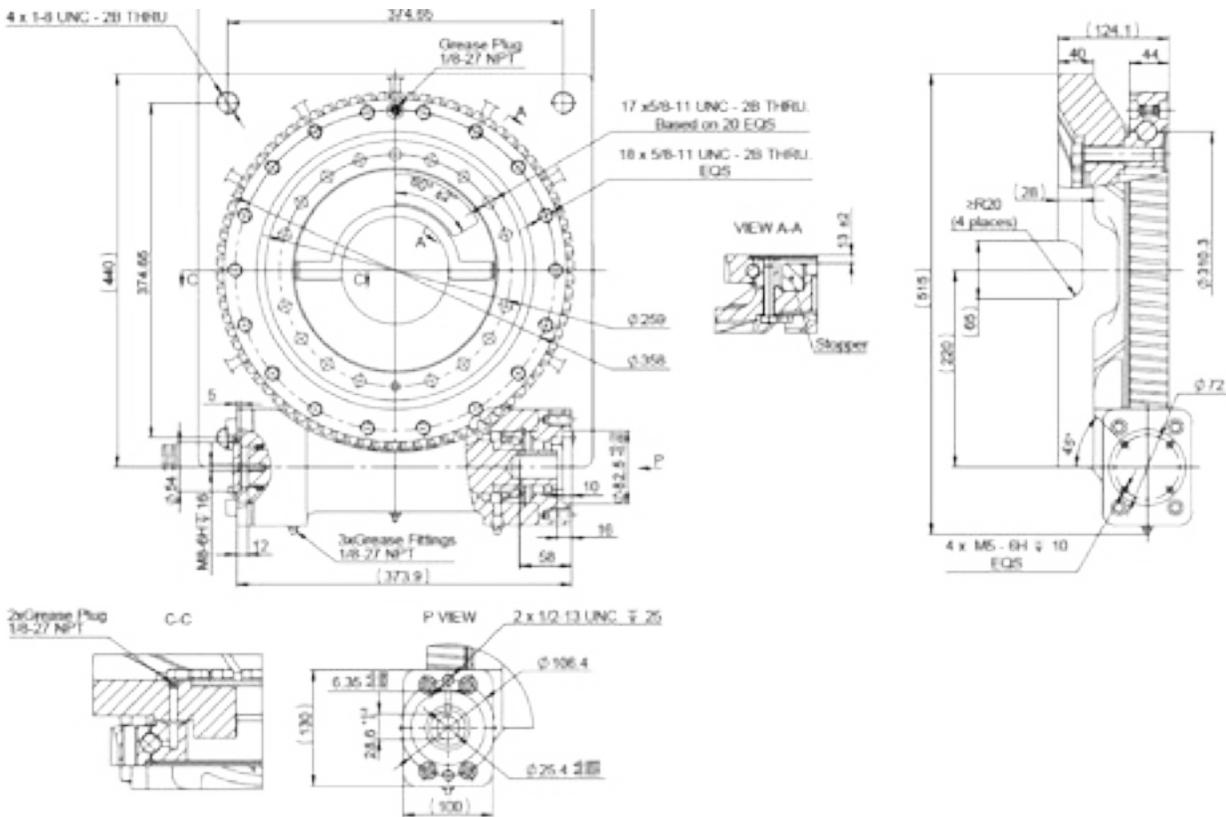
PART NUMBERS 70733889 & 77441537 NOT SHOWN.

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Gear Rotator (71056705)



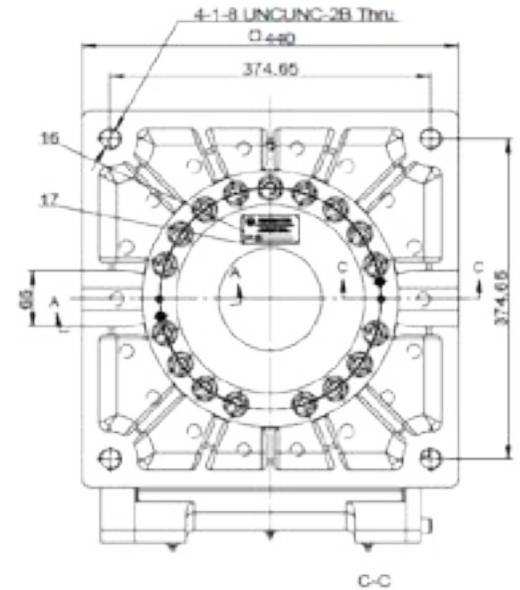
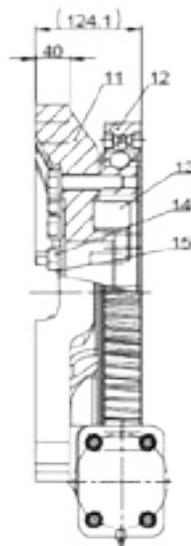
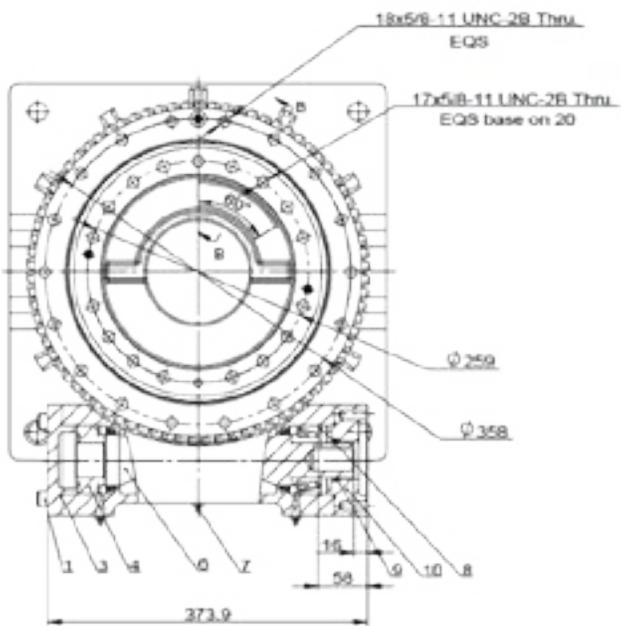
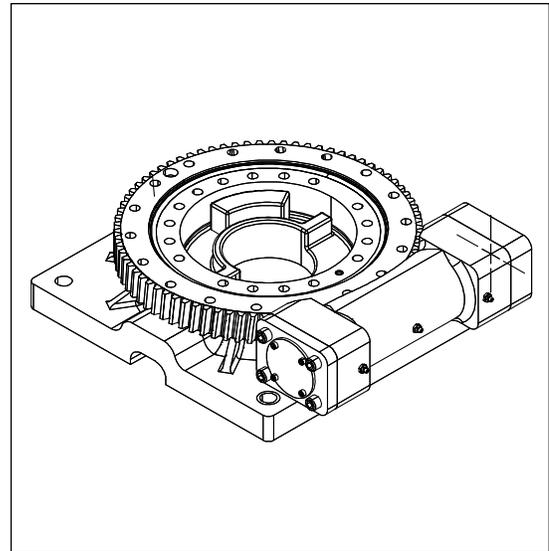
71056705 CONTINUED



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

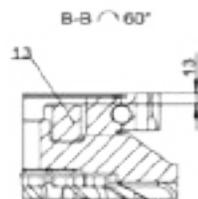
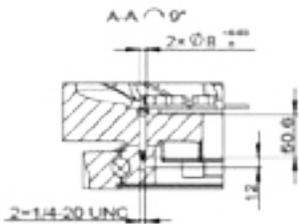
REV. A CN1194

Gear Rotator (71056705)

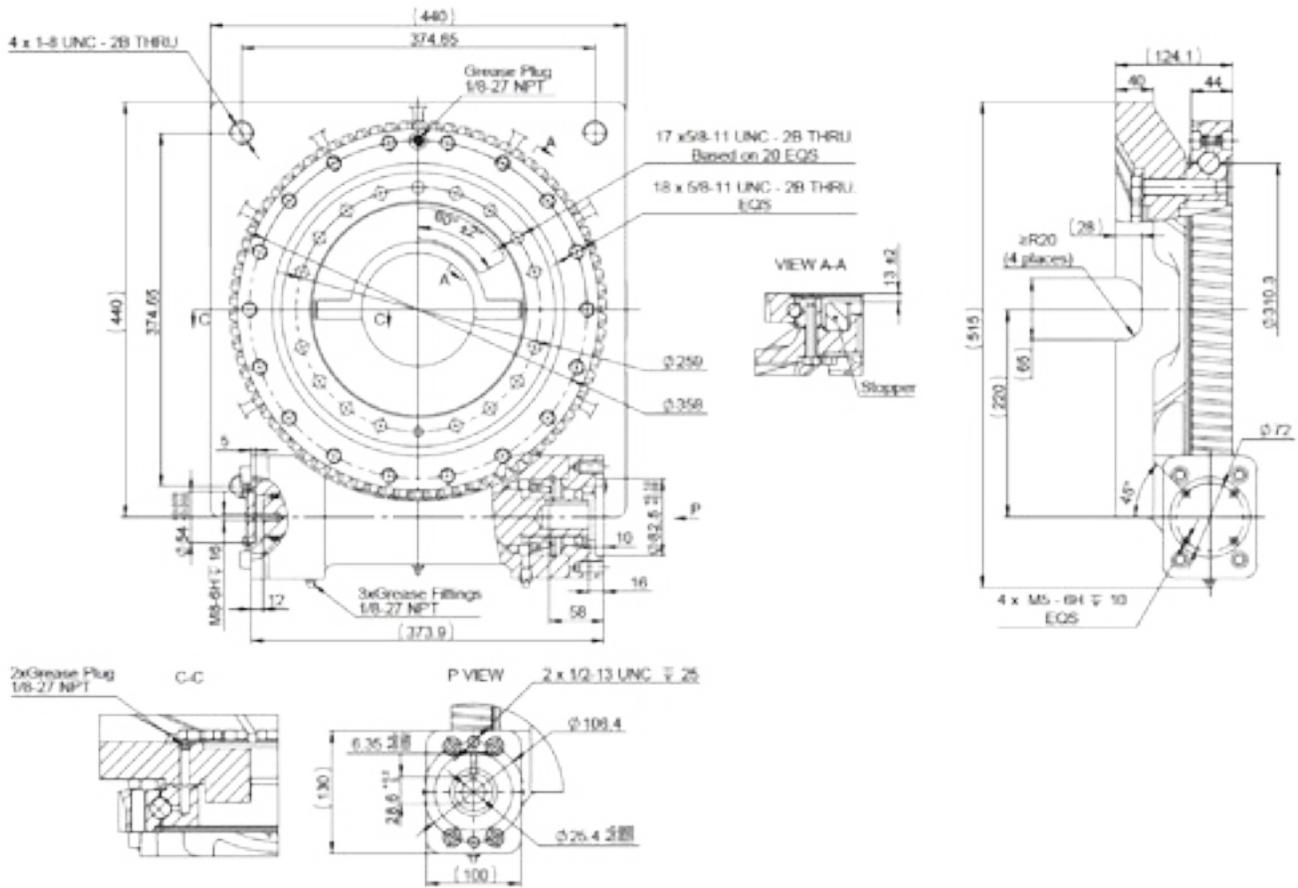


Note:

- 1. Other assemble requirement follow the document E-E-JSYQ-200810.
- 2. The corresponding sales drawing is S12B-78HA-25-4MRC-1-DC134-REV C



GEAR ROTATOR (71056705) CONTINUED



71056705 PARTS LIST

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. INITIAL RELEASE			

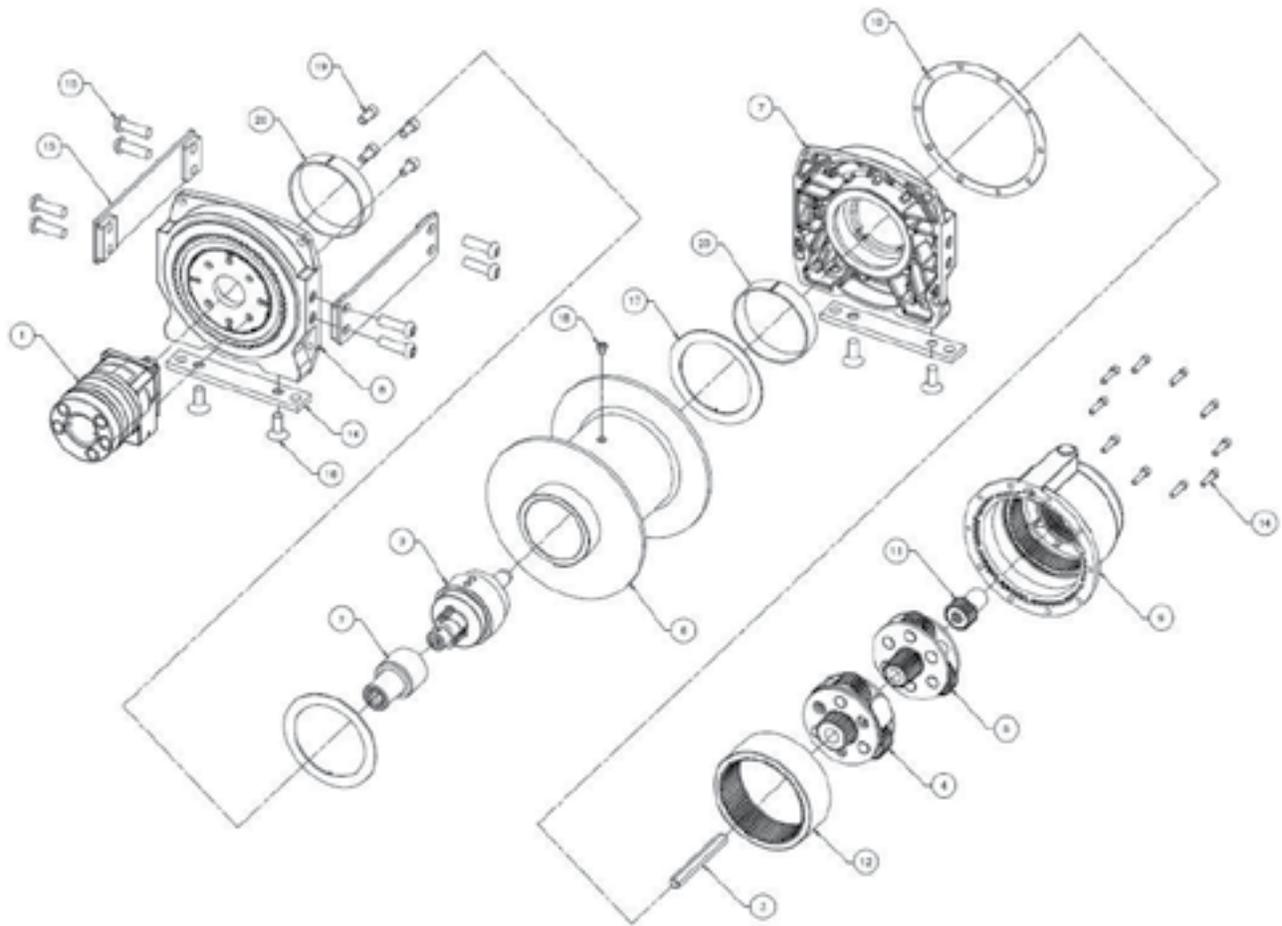
NOTE: ITEMS SHOWN ARE COMMON SERVICE ITEMS. FOR PART NUMBERS NOT ASSIGNED CONTACT:
IOWA MOLD TOOLING CO., INC.
TECHNICAL SUPPORT TEAM
TELEPHONE: 800-554-4421



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Planetary Winch (70571269)



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, TIE BAR	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			

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

IOWA MOLD TOOLING CO., INC.

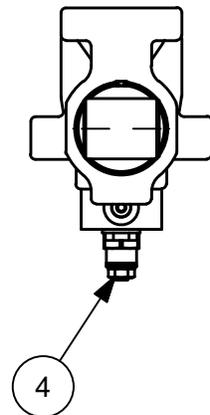
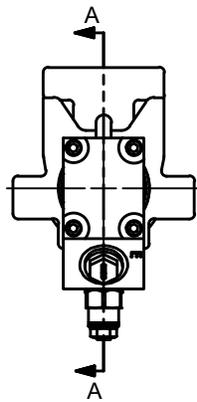
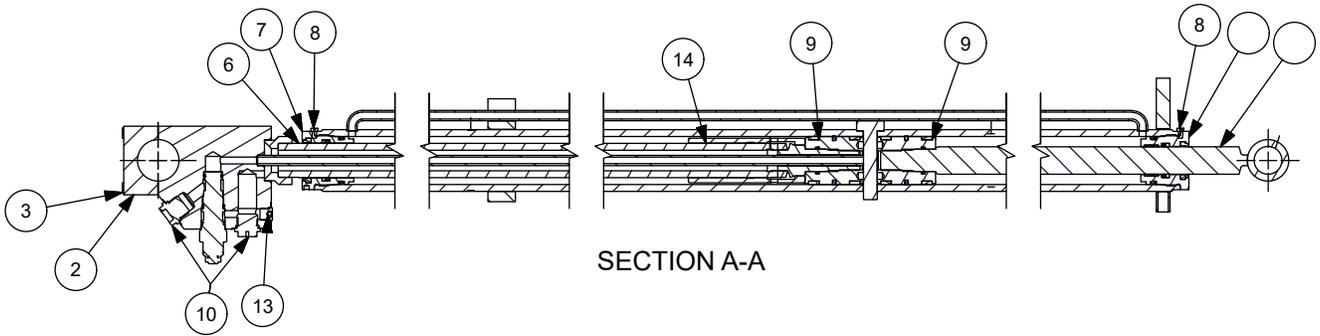
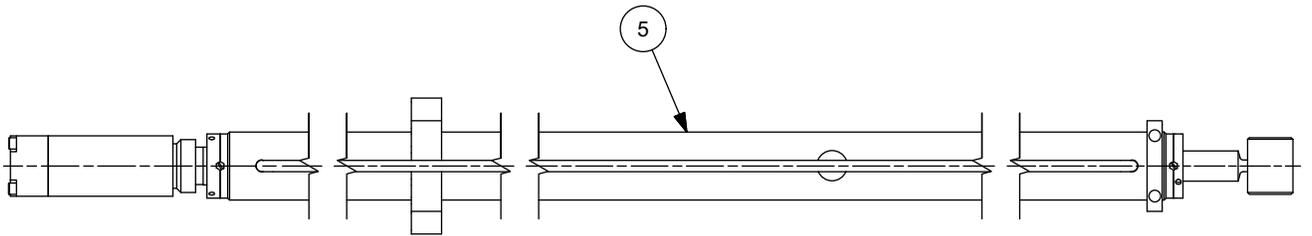
TECHNICAL SUPPORT TEAM

TELEPHONE: 800-554-4421.



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CYL - 1.75/1.00 59.00S 56.13S (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.	73050217	VALVE-CBAL SUN01 CBCG-LGN 5000 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.

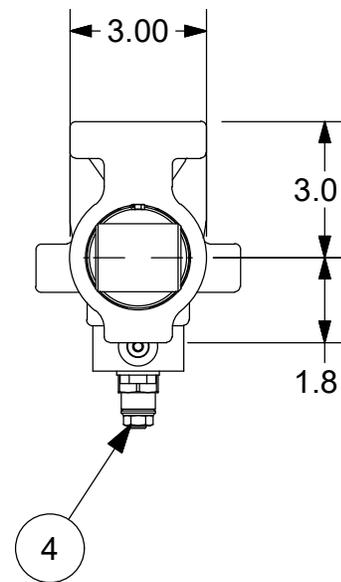
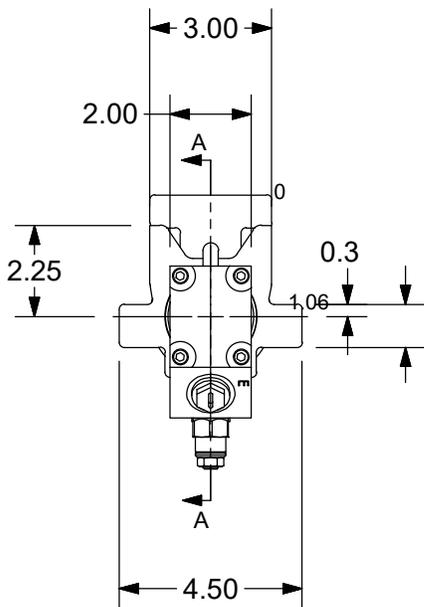
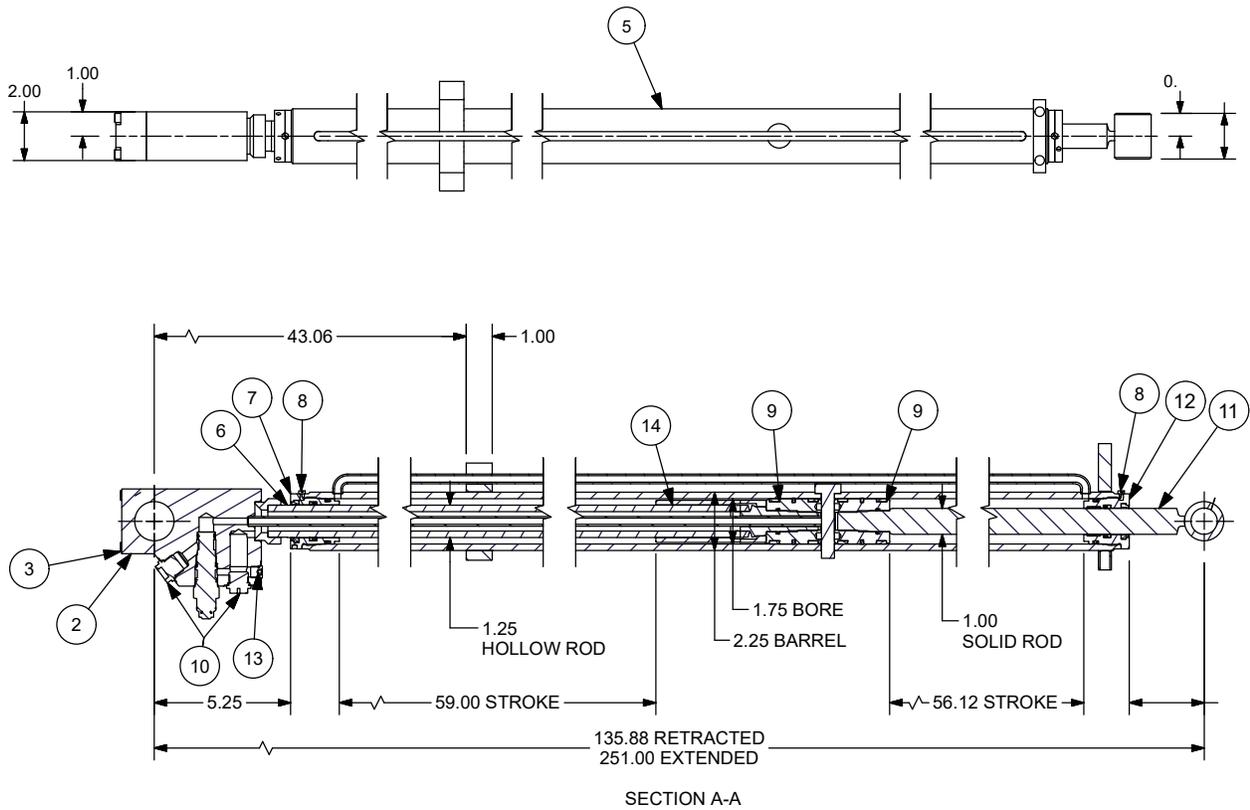
NOTE: ITEMS SHOWN ARE COMMON SERVICE ITEMS. FOR PART NUMBERS NOT ASSIGNED CONTACT:

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



imt.com/parts-service

Extension Cylinder (51727693)



NOTES: Part Number 94490379 not shown.

PARTS LIST 51727693

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.	73050217	VALVE-CBAL SUN01 CBCG-LGN 5000 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. INITIAL RELEASE			

NOTES:

PART NUMBER 94490379 NOT SHOWN.

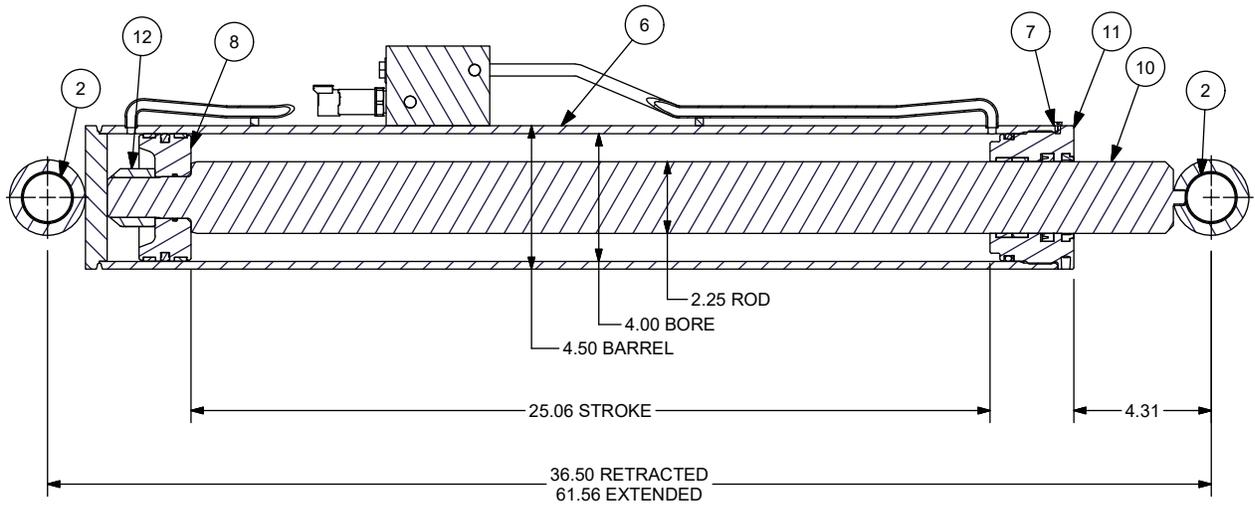
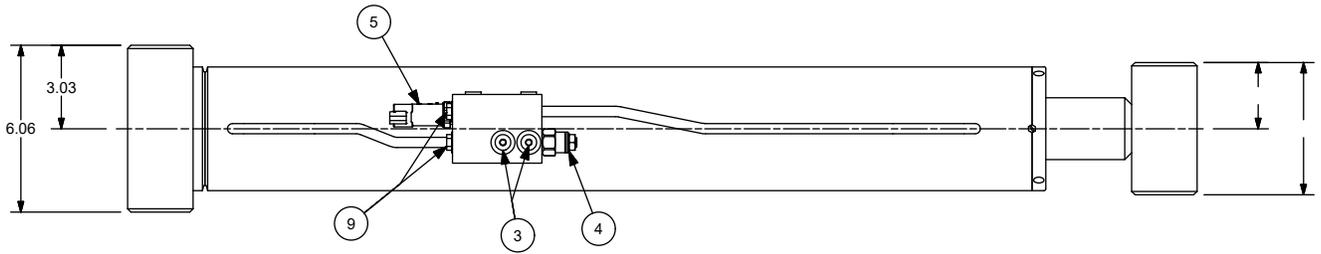
NOTE: ITEMS SHOWN ARE COMMON SERVICE ITEMS. FOR PART NUMBERS NOT ASSIGNED CONTACT:

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

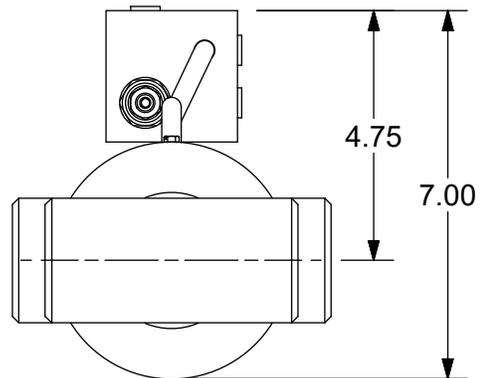
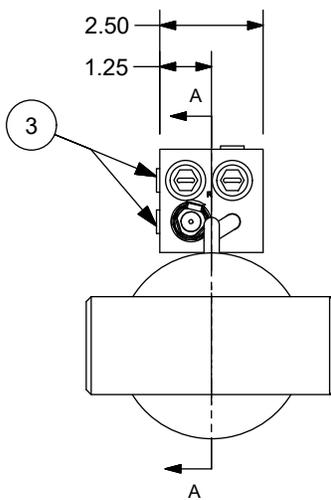


imt.com/parts-service

Cylinder (51727692)



SECTION A-A



NOTES: Part Number 94490370 not shown.

51727692 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	94490370	SEAL KIT-51727692	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	1
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			

NOTES: Part Number 94490370 not shown.

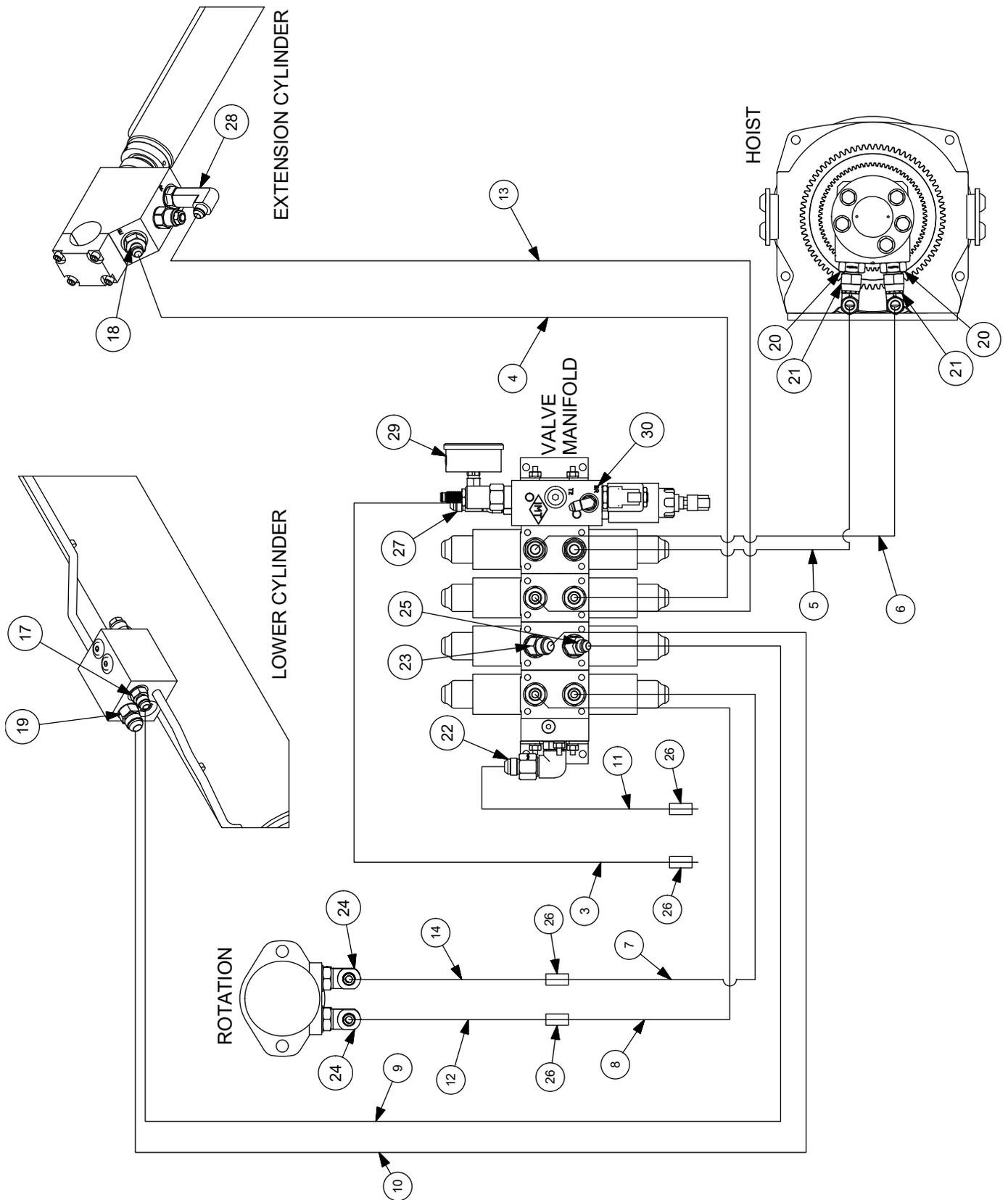
NOTE: Items shown are common service items. For part numbers not assigned contact:

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



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Hydraulic Schematic SP (99906581)

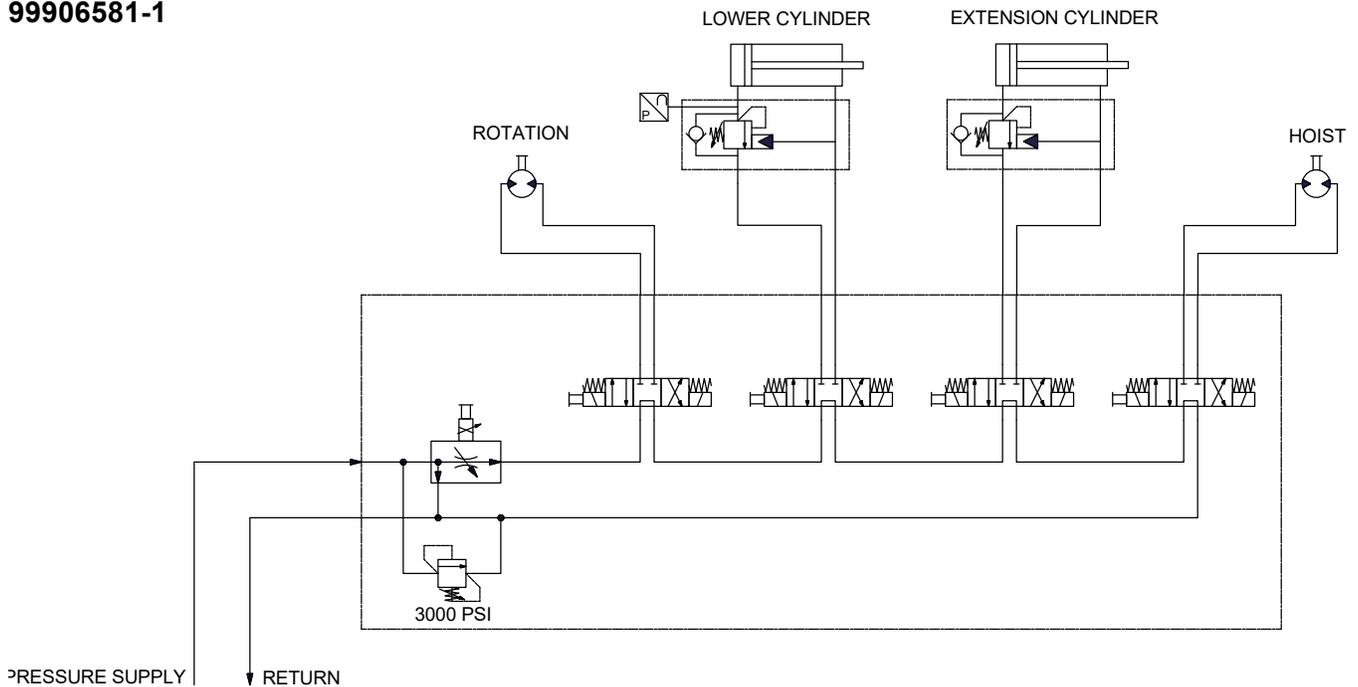


99906581 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	KIT NO.
1.	91727933	KIT-HYD 5000/6000	1	
2.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	2	1
3.	51396017	HOSE-FJ .50 X 30.00 (8-8) 100R16	1	1
4.	51396810	HOSE-JZ .38 X 21.50 (6-6) 100R17 180	1	1
5.	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1	1
6.	51397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1	1
7.	51399072	HOSE-FJ .38 X 22.50 (8-6) 100R17	1	1
8.	51399073	HOSE-FZ .38 X 25.00 (8-6) 100R17	1	1
9.	51399462	HOSE-FJ .38 X 31.00 (6-6) 100R17	1	1
10.	51399463	HOSE-FZ .50 X 32.00 (8-8) 100R17	1	1
11.	51399559	HOSE-FJ .50 X 30.00 (8-8) 100R17	1	1
12.	51490312	HOSE-FF .38 X 21.00 (8-6) 100R17	1	1
13.	51490313	HOSE-FJ .38 X 21.50 (6-6) 100R17 180	1	1
14.	51490386	HOSE-FF .38 X 17.00 (8-6) 100R17	1	1
15.	60350141	SLEEVE-HOSE NHS-159 X 12 CUT & SEALED	3	1
16.	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	2	1
17.	72532355	ADPTR-M STR/M JIC 6 6	1	1
18.	72532356	ADPTR-M STR/M JIC 8 6	1	1
19.	72532357	ADPTR-M STR/M JIC 6 8	1	1
20.	72532359	ADPTR-M STR/M JIC 10 8	2	1
21.	72532658	ELBOW-M JIC/90/F JIC SW 8 8	2	1
22.	72532669	ADPTR-M JIC/F JIC 8 10	1	1
23.	72532670	ELBOW-M JIC/45/F JIC 8 8	1	1
24.	72533331	ELBOW-M STR/90/M JIC 10 6	2	1
25.	72533583	ELBOW-M STR/45/M JIC 8 6	1	1
26.	72533648	SWIVEL-M JIC/90/M JIC 8 8	4	1
27.	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1	1
28.	72535033	ELBOW-M STR/90/M JIC 8 6 XL	1	1
29.	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1	
30.	73734472	VALVE BANK-4-SECT BV18 S3SP 12VDC	1	

REV. A CN1207

99906581-1

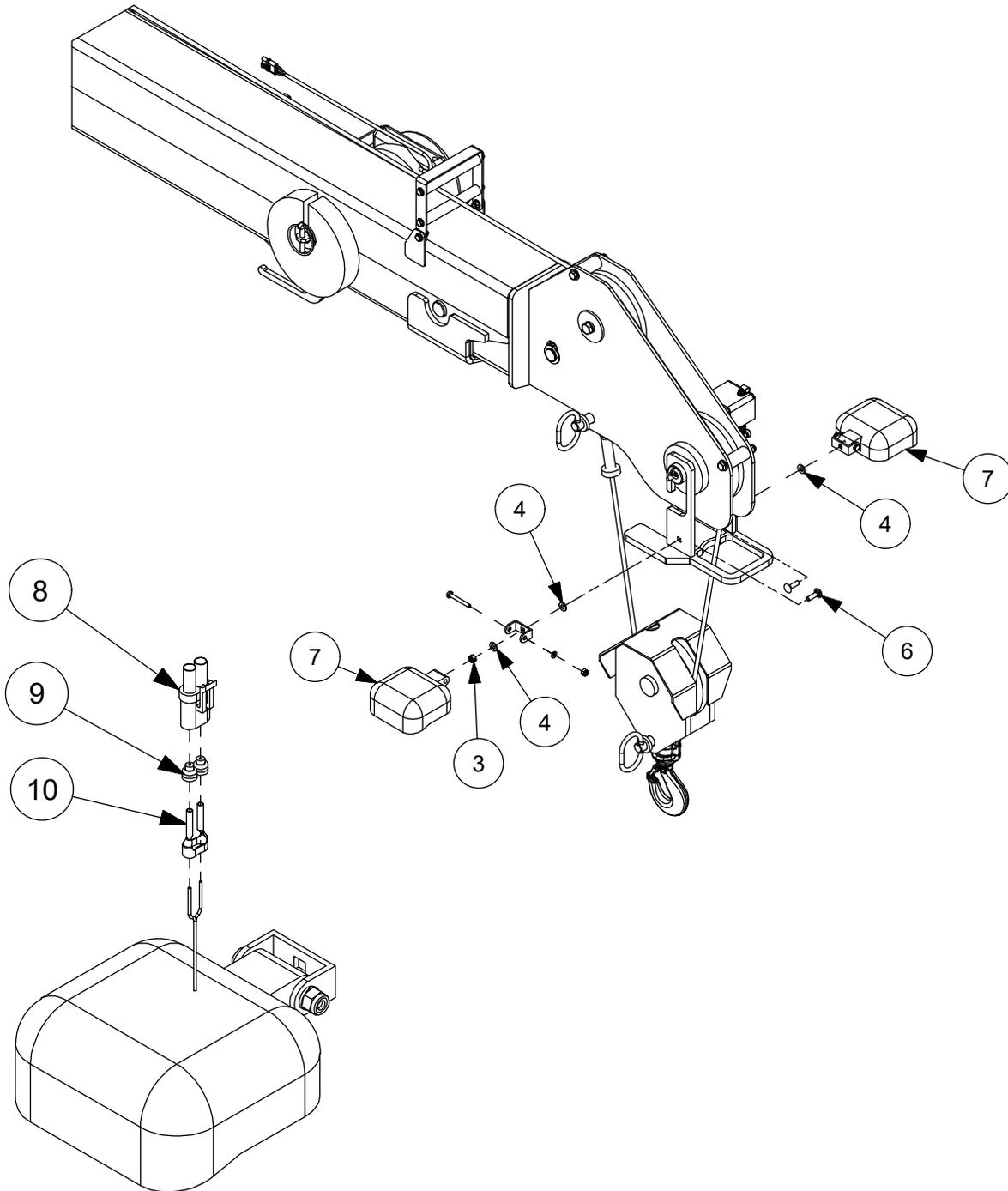


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Section - 6

Electrical & Lighting

Boom Tip Floodlight Kit (99906598)



WIRING DETAIL
SCALE 1 : 4

NOTE: Part Numbers: 72034572, 72063050, and 77441473 not shown.

99906598 PARTS LIST

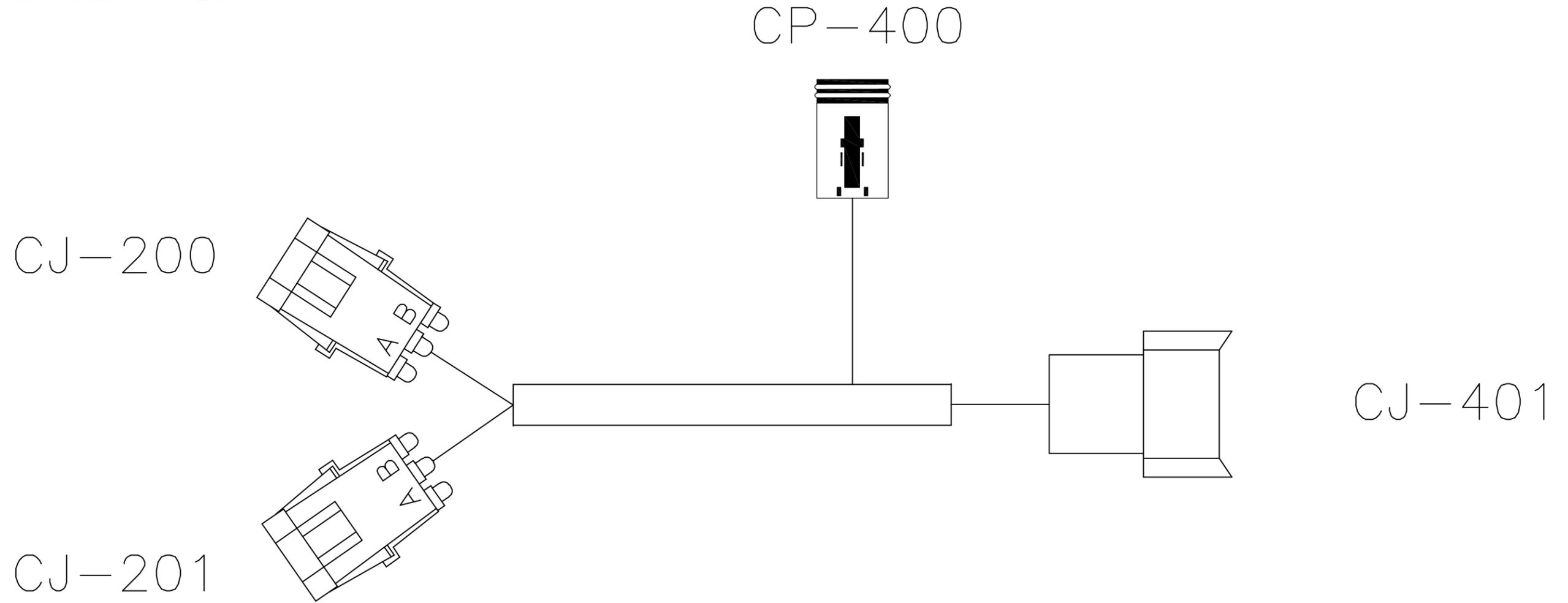
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	51724116	ELECT KIT-S3 BOOM DUAL LED FLOOD LIGHTS		1
2.	72034572	CLAMP-PLASTIC .38 CABLE	1	1
3.	72062414	NUT .31-18 HEX GR2 Z CENTER LOCKING		2
4.	72063002	WASHER .31 FLAT	1	4
5.	72063050	WASHER-LOCK .31 ZINC	1	4
6.	72602175	BOLT-CRG .31-18X .88 SQNK GRA		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.

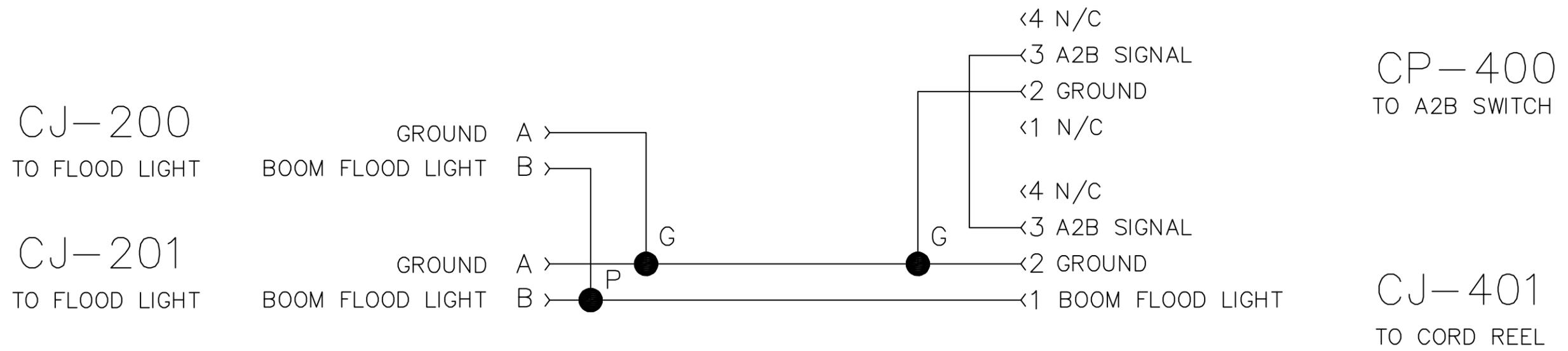
Harness-Boom Tip Led Flood Light Jumper (77441473)

Kit Number: 57124116

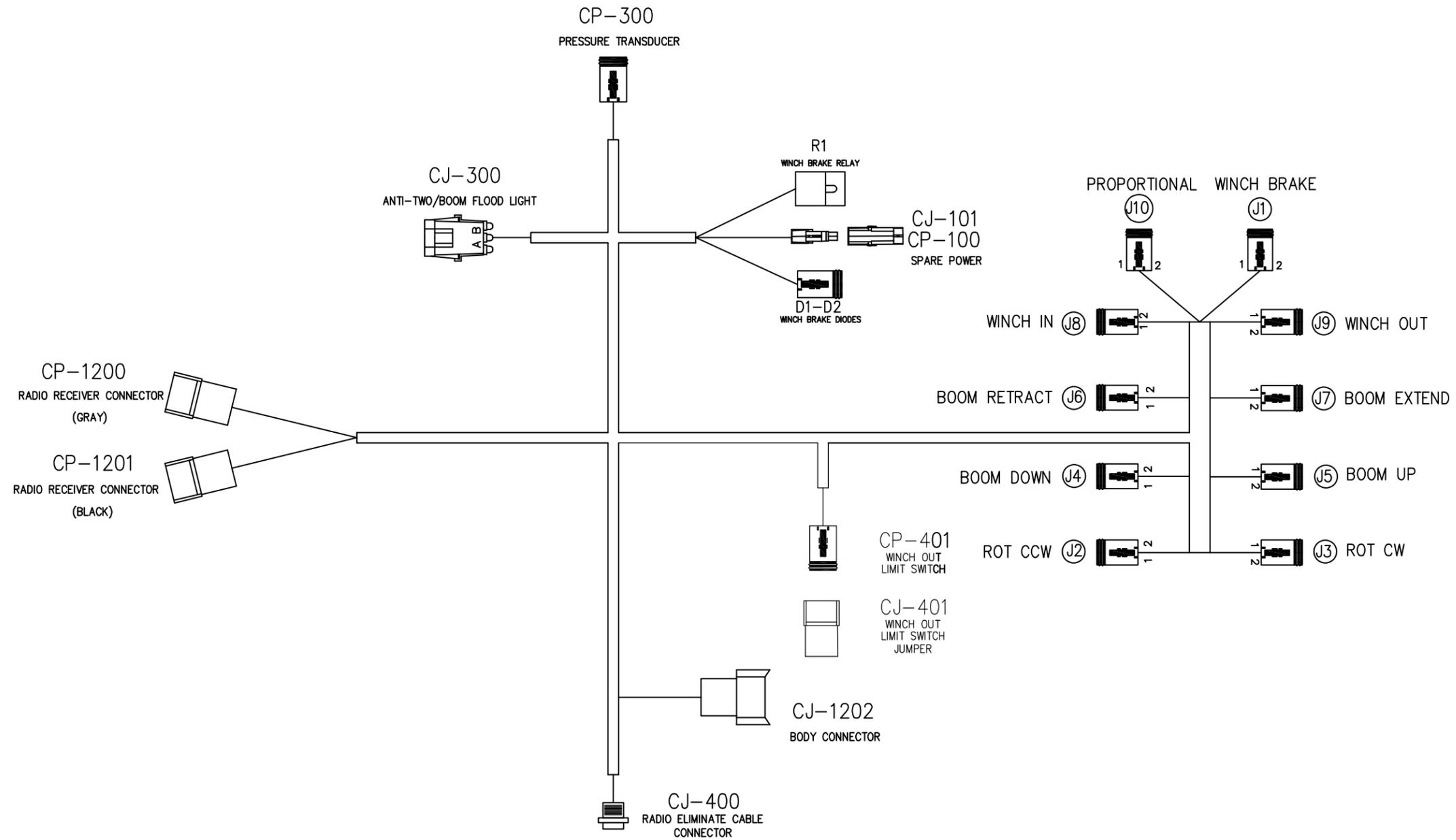


Harness-Boom Tip Led Flood Light Jumper (77441473) - continued

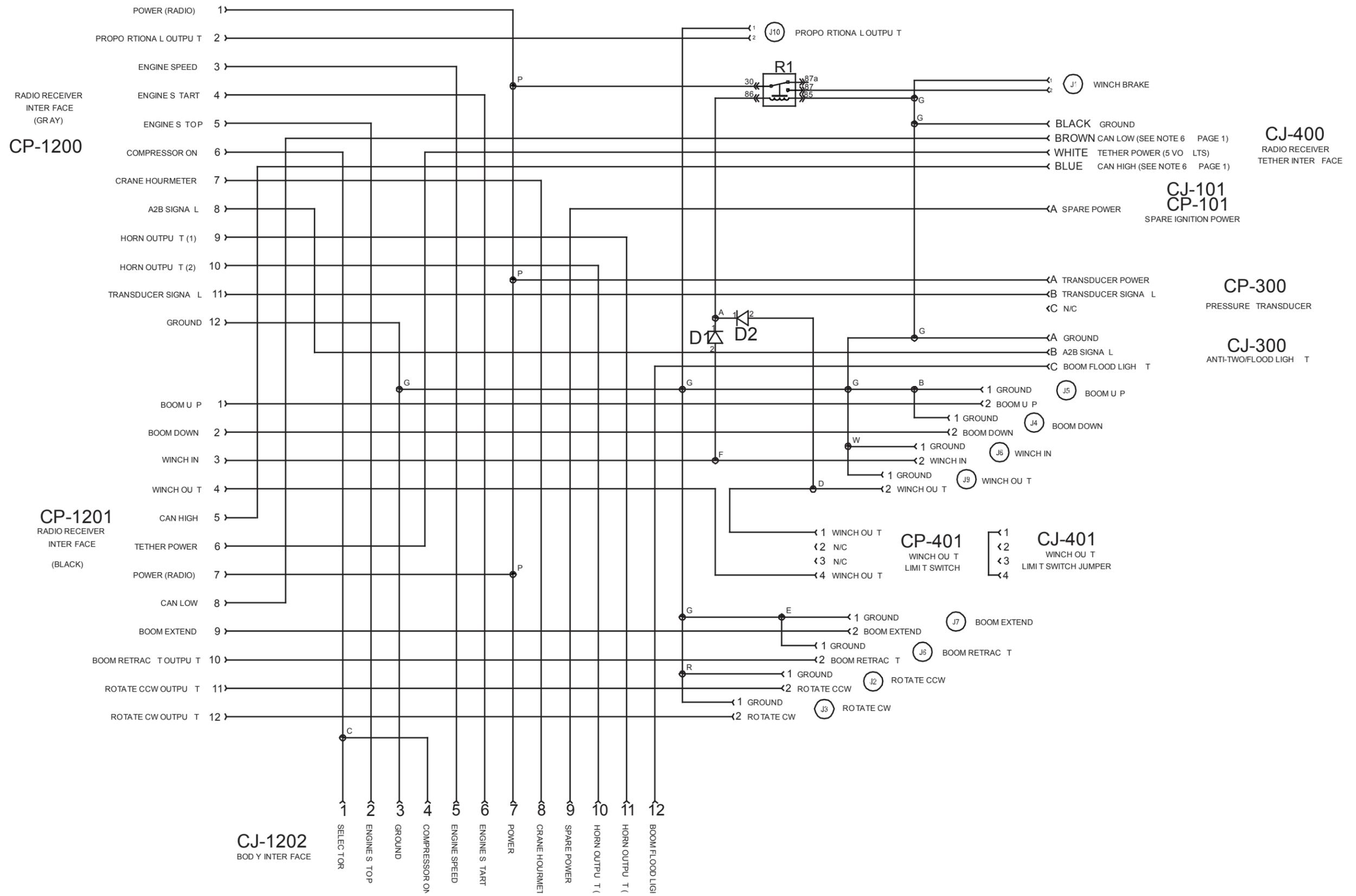
Kit Number: 57124116



Harness-Tele SP Valve Bank (77441537)



Harness-Tele SP Valve Bank (77441537-1)



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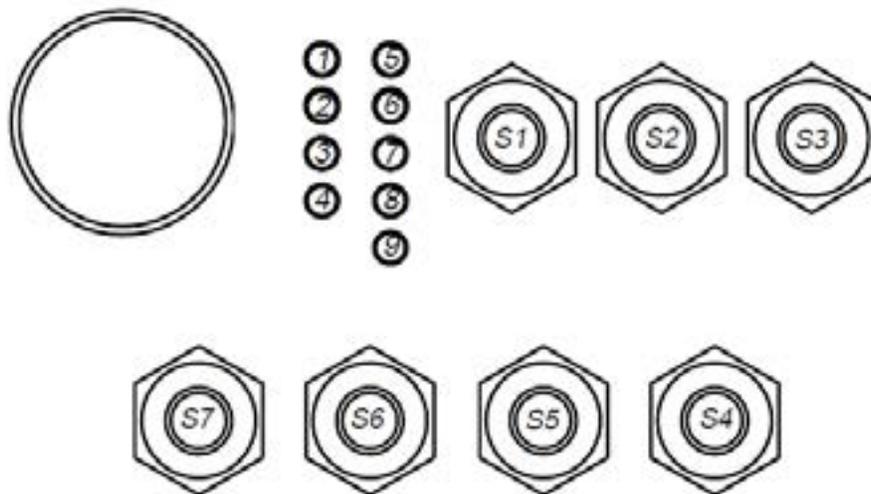
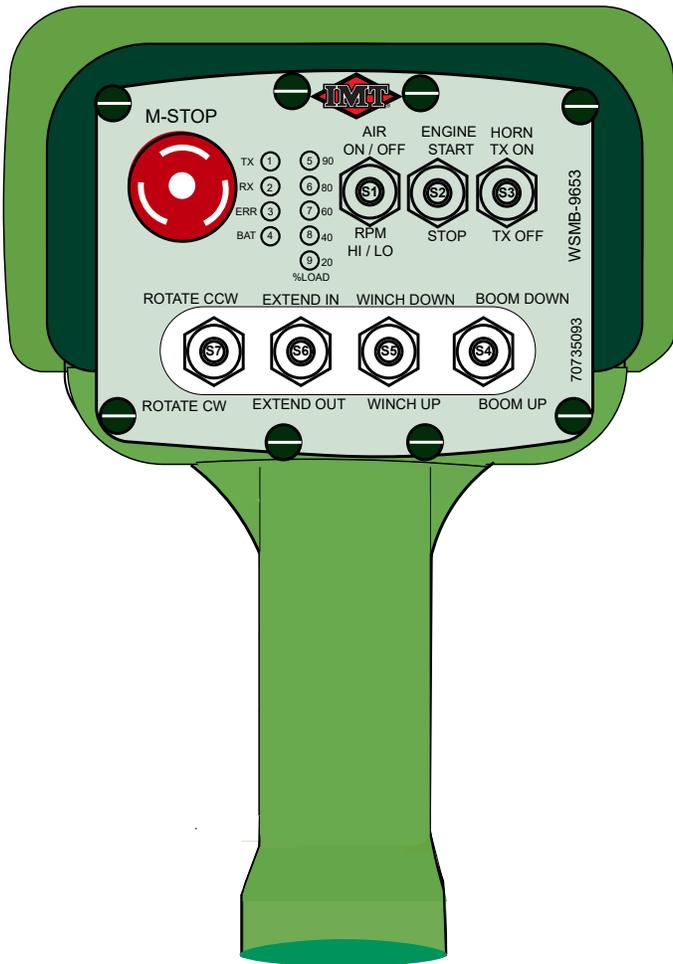
Section - 7 **Radio Remote**

SP Radio Remote System

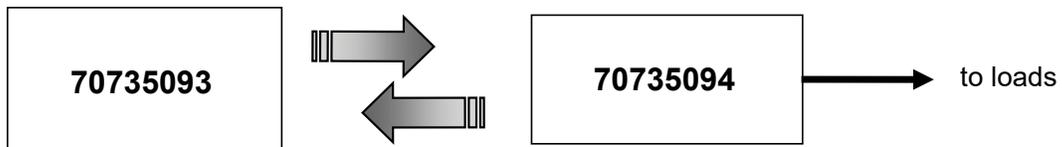
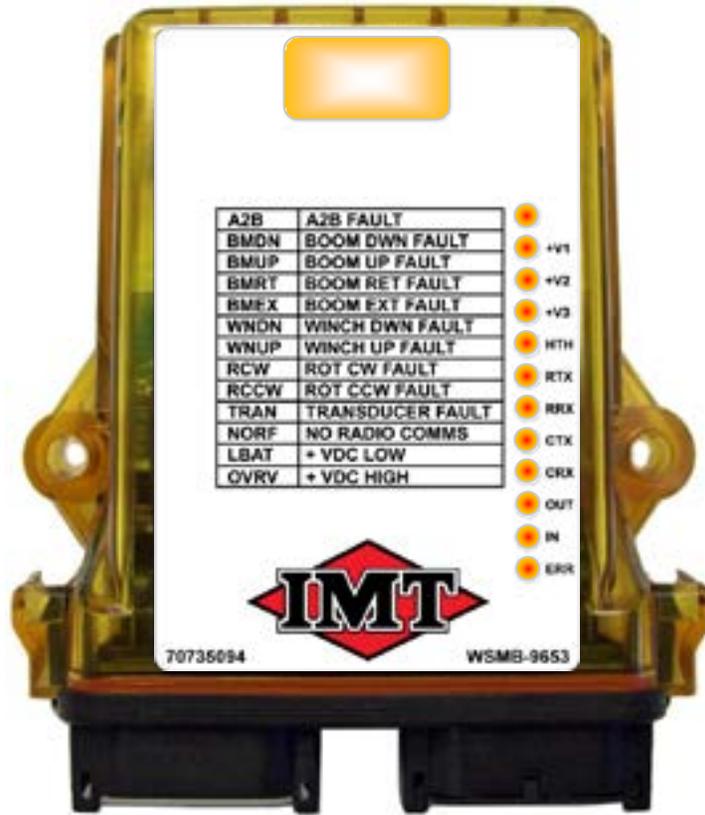
SAFETY PRECAUTIONS:

- Read and follow all instructions in **SIII Telescopic Single Proportional Radio Remote System**, PN: 99906210.
- Failure to abide by Safety Precautions may result in equipment failure, loss of authority to operate the equipment, and personal injury..
- Use and maintain proper wiring. Follow equipment manufacturer instructions. Improper, loose, and frayed wiring can cause system failure, equipment damage, and intermittent operation.
- Changes or modifications made to equipment not expressly approved by the manufacturer will void the warranty.
- Owner/operators of the equipment must abide by all applicable Federal, State, and Local laws concerning installation and operation of the equipment. Failure to comply could result in penalties and could void user authority to operate the equipment.
- Make sure that the machinery and surrounding area is clear before operating. Do not activate the remote control system until certain that it is safe to do so.
- Turn off the handheld remote and remove power from the base unit before attempting any maintenance. This will prevent accidental operation of the controlled machinery.
- Power is removed from the base unit by detaching the 12-pin cables from the base unit connector P1 and P2, or by removing the source power from the circuit.
- Use a damp cloth to keep units clean. Remove mud, concrete, dirt, etc. after use to prevent obstructing or clogging the buttons, levers, wiring, and switches.
- Do not intentionally allow liquid to enter the handheld or base unit enclosures. Do not use high pressure equipment to clean the handheld remote or base unit.
- Disconnect the radio base unit before welding on the machine. Failure to disconnect the base unit may result in destruction of or damage to the base unit.
- Operate and store units only within the specified operation and storage temperatures defined in 99906210, *SIII Telescopic Single Proportional Radio Remote System*.
- Keep high-energy RF devices away from handheld remotes. Activation of high-power communication radios, for instance, in close proximity to handheld remotes can result in interference and “false” circuit activation.
- Do not key 2-way radios while using the handheld remote.

TRANSM-RAD SP EM 5LED FHSS 2400 (70735093)



RECEIVER-RAD SP 5LED FHSS 2400 (70735094)

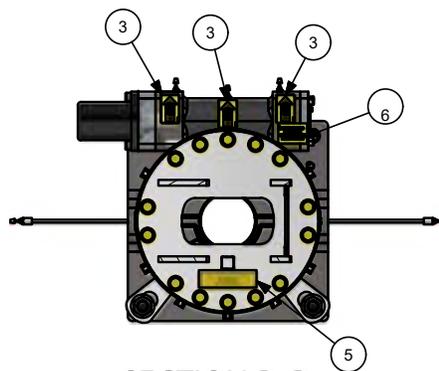
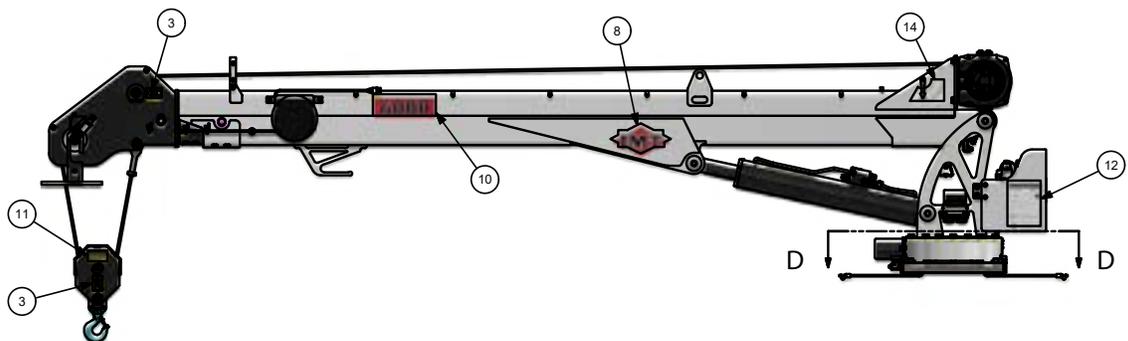
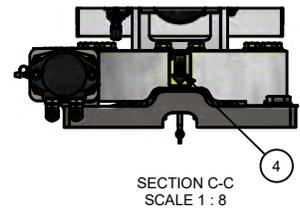
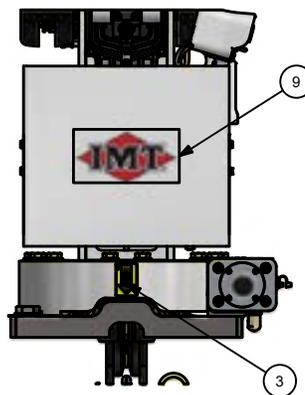
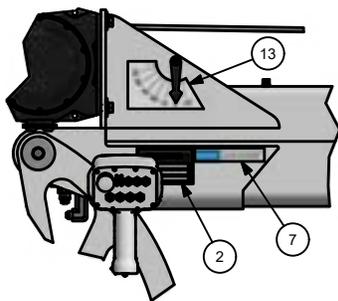
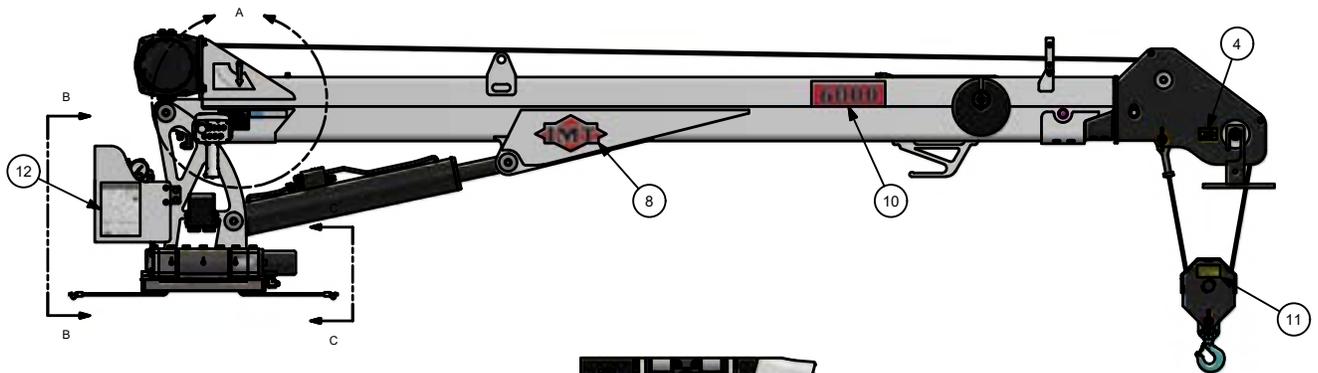


System Diagram

Section - 8

General Information

Decal Placement (99906580)



99906580 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.	MODEL	KIT NO.
1.	91727931	DECAL KIT- TELE COMMON 5000/6000	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.	70398903	DECAL-DIAMOND IMT 5.00X10.00-REFLECTIVE	2		1
9.	70399195	DECAL-DIAMOND IMT 4.00X8.00 (REFL)	1		1
10.	70490365	DECAL-ID 5000	2	5000	
10.	70399339	DECAL-ID 6000	2	6000	
11.	70490171	DECAL-3.0 TON LOAD BLOCK RATING WITH SNA	2		1
12.	70490366	DECAL-CP 5000H	2	5000	
12.	70490310	DECAL-CP 6000H	2	6000	
13.	71399136	DECAL-ANGLE IND RH SIII	1		1
14.	71399137	DECAL-ANGLE IND LH SIII	1		1
REV. A CN1207					

Thread Torque Charts - Imperial

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

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

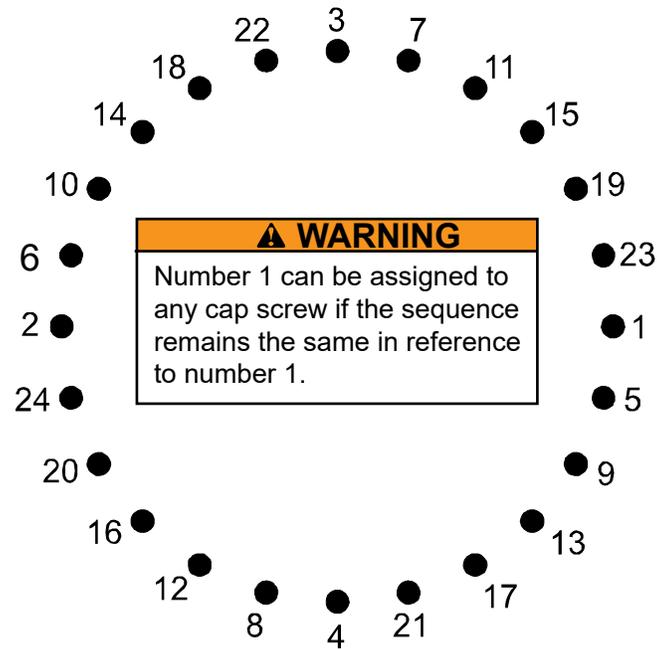
NOTES:

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

⚠ WARNING

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

Cross Torque Method - Turntable Bearing (General)



TIGHTENING PROCEDURE

1. Refer to the torque data chart to determine the proper torque value to apply to the size of cap screw used.
2. Follow the tightening sequence shown in the diagram. **Note:** the quantity of 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: Refer to the turntable bearing thread tightening diagram for proper tightening-torquing sequence of the turntable bearing to the crane base and crane mast. The total quantity of cap screws varies dependent on crane model.

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