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Manual # 99904387 REV A

IMT 5005i / 6006i Parts & Specifications

Revised 08-20-2024

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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

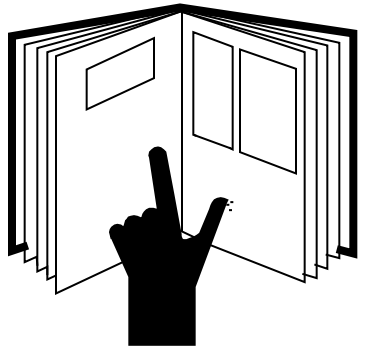
Prior to using any of the equipment installed on or incorporated in the IMT Crane Body Mechanics Truck, you must:

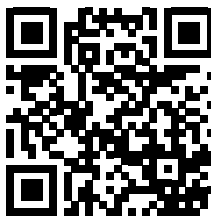
- Have already been fully trained to operate the vehicle and equipment.
- Have demonstrated the effectiveness of your training and the extent of your knowledge.

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 deals with information applicable to your particular crane. For operating, maintenance and repair instructions, refer to IMT Electric Cranes Operation & Safety (IMT part number 99904381.)

We recommend that this volume be kept in a safe place in the office.

This manual is provided to assist you with ordering parts for your IMT crane. It also contains additional instructions regarding your particular installation.

It is the user's responsibility to maintain and operate this unit in a manner that will result in the safest working conditions possible

Warranty of this unit will be void on any part of the unit subjected to misuse due to overloading, abuse, lack of maintenance and unauthorized modifications. No warranty - verbal, written or implied - other than the official, published IMT new machinery and equipment warranty will be valid with this unit. In addition, it is also the user's responsibility to be aware of existing Federal, State and Local codes and regulations governing the safe use and maintenance of this unit. This 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.

Throughout the manual, **NOTES**, **CAUTIONS** and **WARNINGS** are used to draw the attention of personnel. They are defined as follows:

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

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

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

DANGER
Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Danger is used in the extreme situations.

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

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Section - 2

Specifications

5005i & 6006i(12v) Technical Data-General Specifications

	5005i	6006i(12v)
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.)	30,000 ft-lb at 10'-0" (4.1 m at 3.0 m)	38,000 ft-lb at 11'-0" (5.3 m at 3.3 m)
Max. Horizontal Reach (From Centerline Of Rotation)	22'-0" (6.7 m)	
Hydraulic Extension (1)	72" (183 cm)	
Manual Extension (1)		
Lifting Height (From Base of Crane to Centerline of Sheave)	23'-6" (7.2 m)	
Crane Weight (1H1m)	1440 lb (653 kg)	1450 lb (660 kg)
Crane Storage Height	37" (94 cm)	
Mounting Space Required (Crane Base)	18" x 18" (45.7 cm x 45.7 cm)	
Hydraulic System Operating Pressure	2500 psi (172 Bar)	
Maximum Hydraulic Flow	2.6 gpm (9.84 L/min)	
Oil Reservoir Capacity	1.5 gallons (5.7 L)	
Oil Type	ISO VG32, Low Pour, Anti-Wear Hydraulic Oil	
CENTER OF GRAVITY		
Horizontal from Centerline of Rotation (Booms Retracted)	33" (84 cm)	
Horizontal from Centerline of Rotation (Booms Extended)	65.5" (166 cm)	
Vertical from Bottom of Crane Base	18" (45.7 cm)	
Tie-Down Bolt Pattern (On Center)	14.75" x 14.75" (37.5 cm x 37.5 cm)	
Rotation Torque	4000 ft-lb	
CYLINDER SPECIFICATIONS		
Lower Boom Cylinder	4.0" bore; 21.43" stroke (10 cm bore) (54.4 cm stroke)	4.5" bore 21.43" stroke (11.4 cm bore) (54.4 cm stroke)
Extension Boom Cylinder	2.5" bore 72" stroke (6.4 cm bore) (183 cm stroke)	
WINCH SPECIFICATIONS		
Winch Pull Line	3000 lb (1361 kg)	
Pull Line Speed Without Load	37 ft/min (11.2 m/min)	

	5005i	6006i(12V)
First Wrap Line Speed		11.5 ft/min (3.5 m/min)
Third Wrap Line Speed		14 ft/min (4.3 m/min)
Rope Diameter	5/16" (8 mm)	3/8" (9.6 mm)
Wire Rope Length	80' (24.3 m)	
Cable Nominal Strength	10,540 lb (4,780 kg)	15,100 lb (6,850 kg)

PERFORMANCE CHARACTERISTICS - 5005i & 6006i(12V)

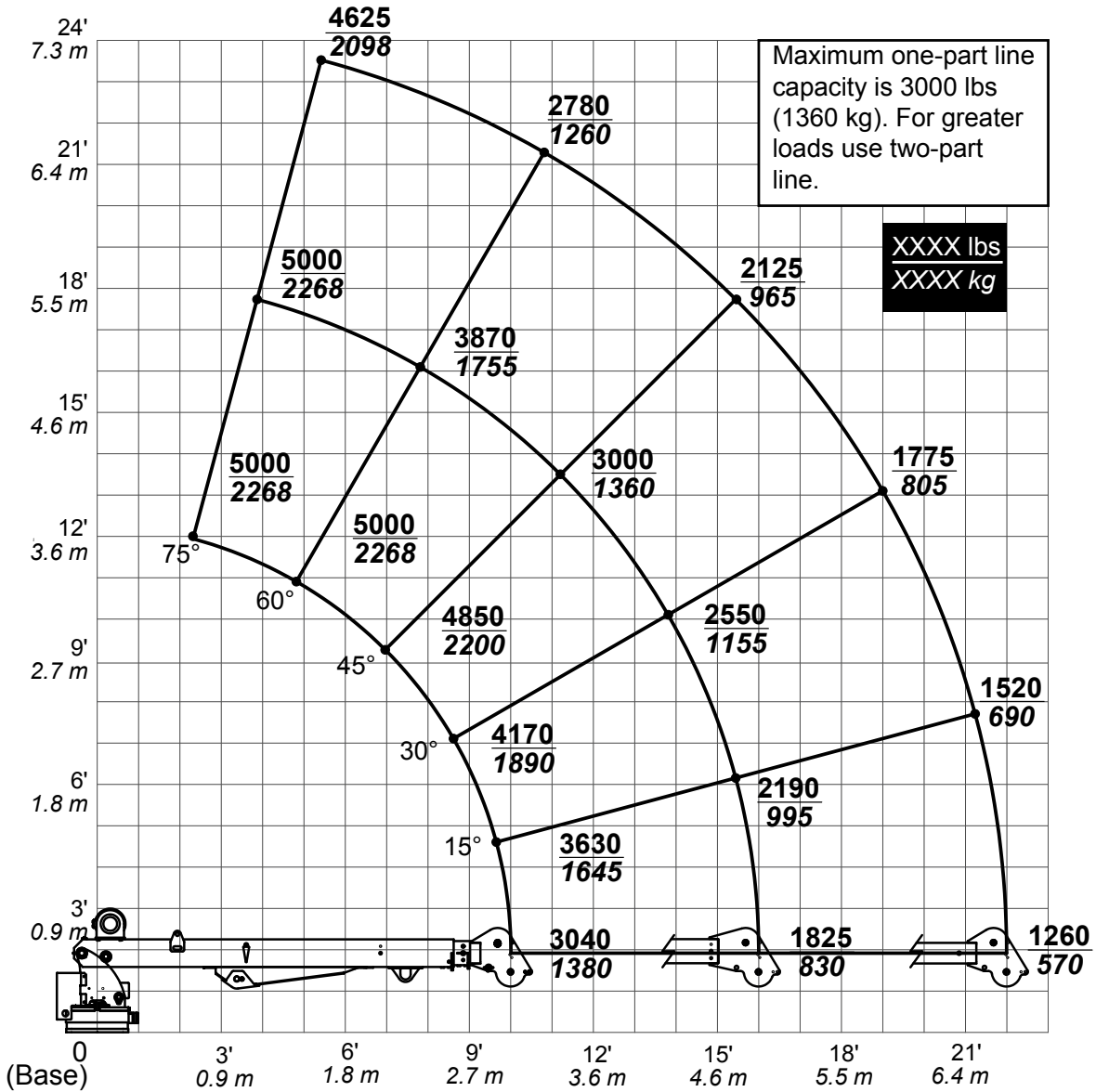
	SPECIFICATIONS	SPEED
Rotation	360° (Continuous)	48 seconds
Lower Boom Elevation	-5° to +75°	30 seconds (raise); 38 (lower)
Extension Cylinder	72" (1.8 m)	30 seconds (extend); 35 seconds (retract)

CHASSIS REQUIREMENTS - 5005i & 6006i(12V)

GVWR	18,000 lb (8165 kg) (Minimum)
ELECTRICAL REQUIREMENTS - 5005i & 6006i(12V)	
System Voltage	12 Volts
Battery	Minimum of 2 identical batteries in parallel
	750 CCA MIN per battery.
	Must meet chassis manufacturer's specifications.
	Batteries must be fully charged prior to use.
Alternator	200 Amperes MINIMUM
Engine	Running at idle speed.
	Elevated RPM required if additional high amperage draw systems will be in use while crane is being operated.
Duty Cycle	Duty cycle and absolute continuous on-time according to the crane user manual.
	Winch is not operated simultaneously with any other function.

5005i - Load Capacity Chart

5005i CAPACITY CHART



WIRE ROPE DATA:

DIAMETER; 0.31, NON-ROTATION RESISTANT, MINIMUM BREAKING LOAD; 9160,

MAXIMUM SINGLE LINE LOAD; 2617 lb (1187 kg).

DISTANCE IN FEET/METERS / LOAD IN POUNDS/KG. WEIGHT OF LOAD HANDLING

DEVICES ARE PART OF THE LOAD LIFTED AND MUST BE DEDUCTED FROM THE CAPACITY.



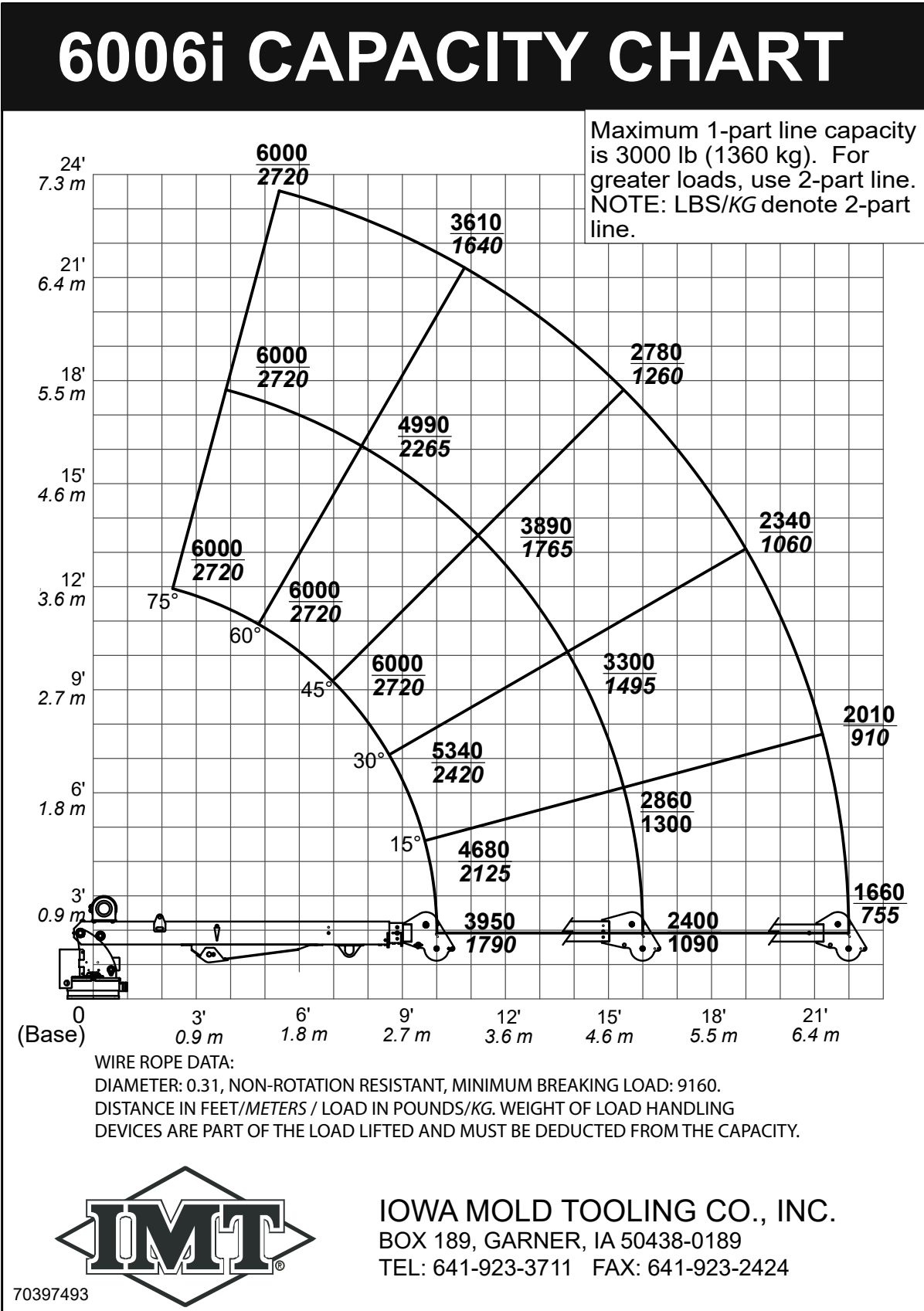
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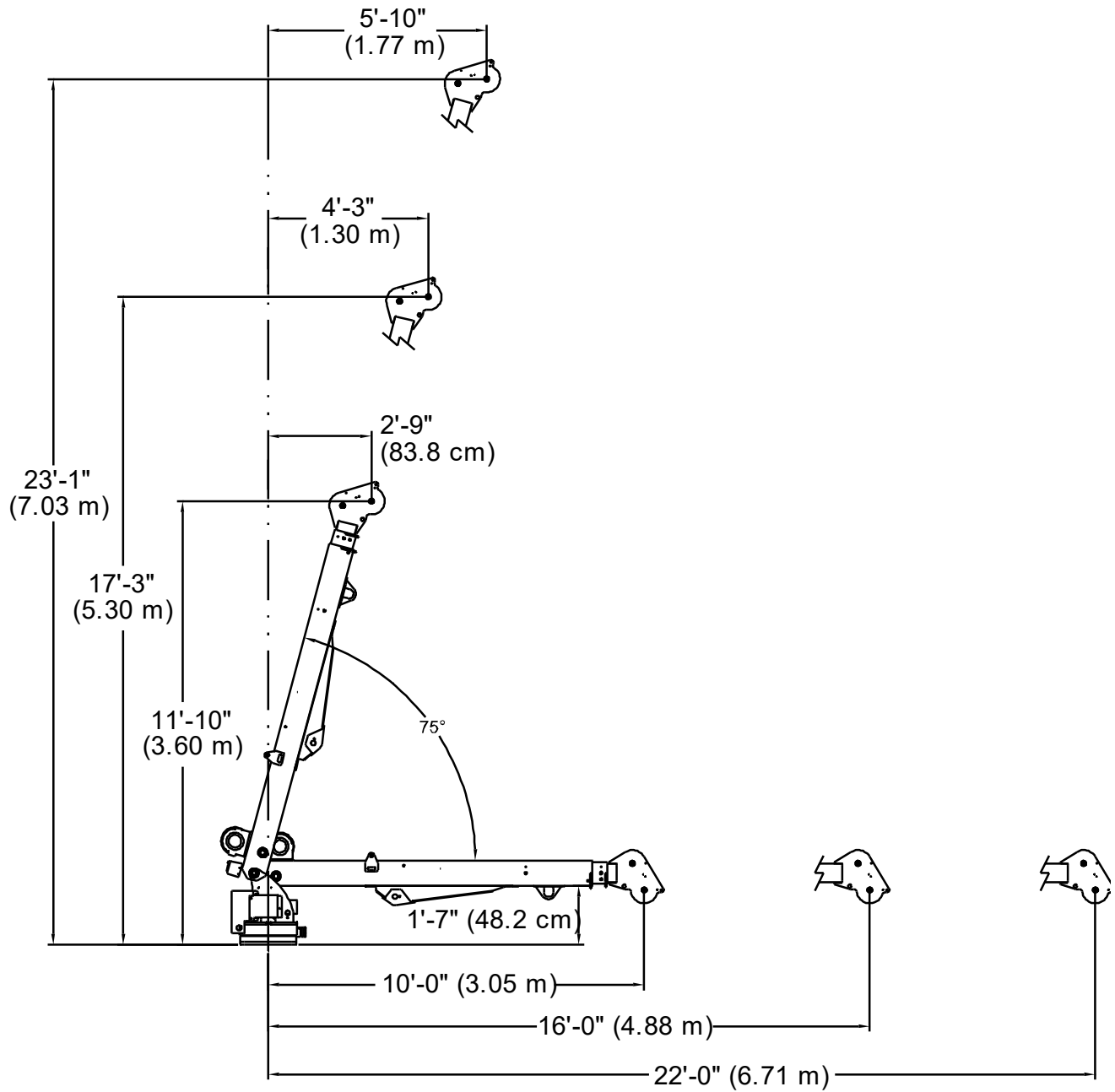
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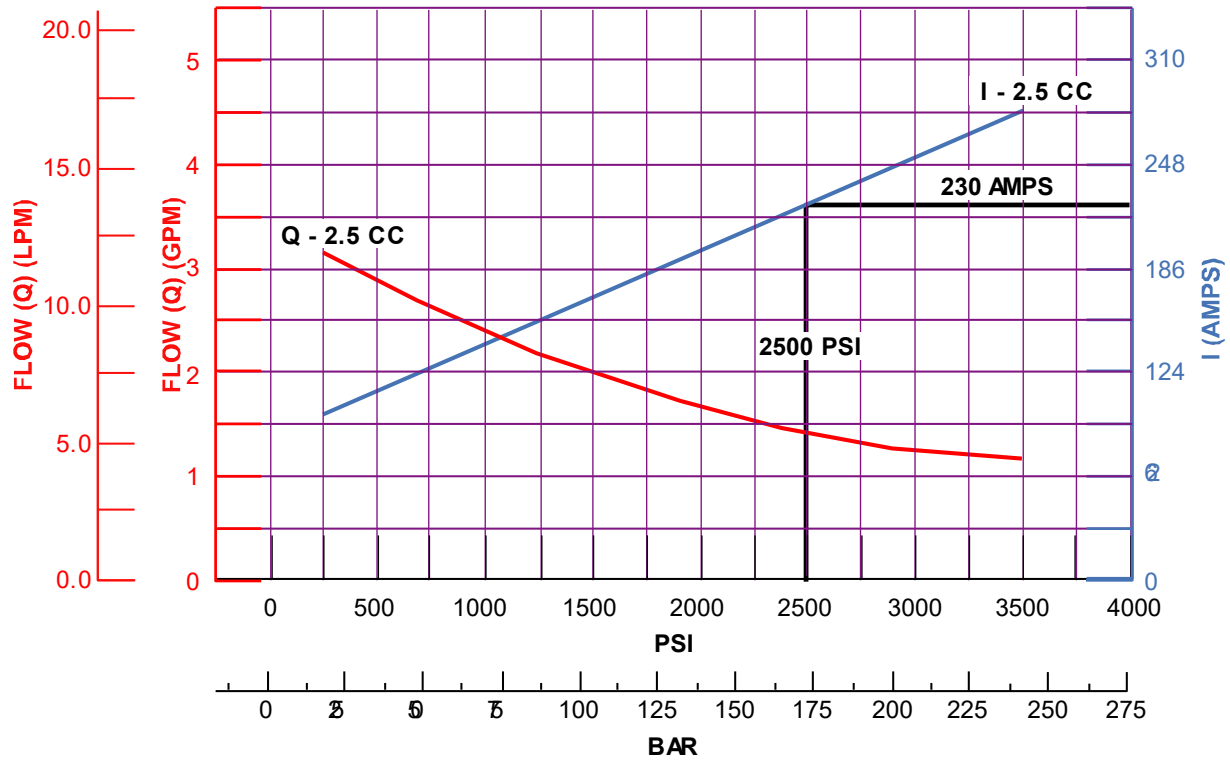
6006i(12v) - Load Capacity Chart



5005i & 6006i(12V) Geometric Configuration

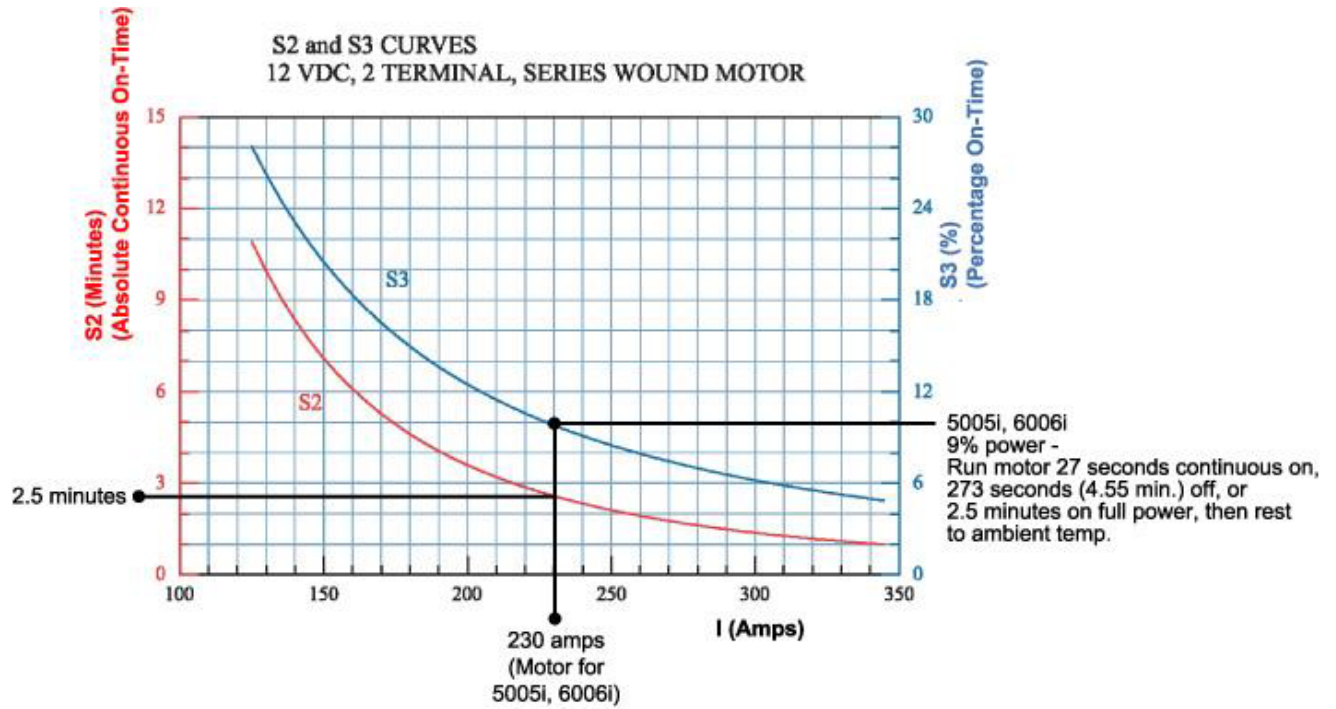


Pump & Motor Performance



⚠ CAUTION
 Avoid motor damage! Operate within performance curves shown.

The 12V Powerpack Motor for the 5005i and 6006i crane cannot be run continuously without Serious motor damage. The pump has a **MAXIMUM** duty cycle of 2.5 minutes which must be followed by cool-down to ambient temperature. It can be run intermittently according to the above chart.

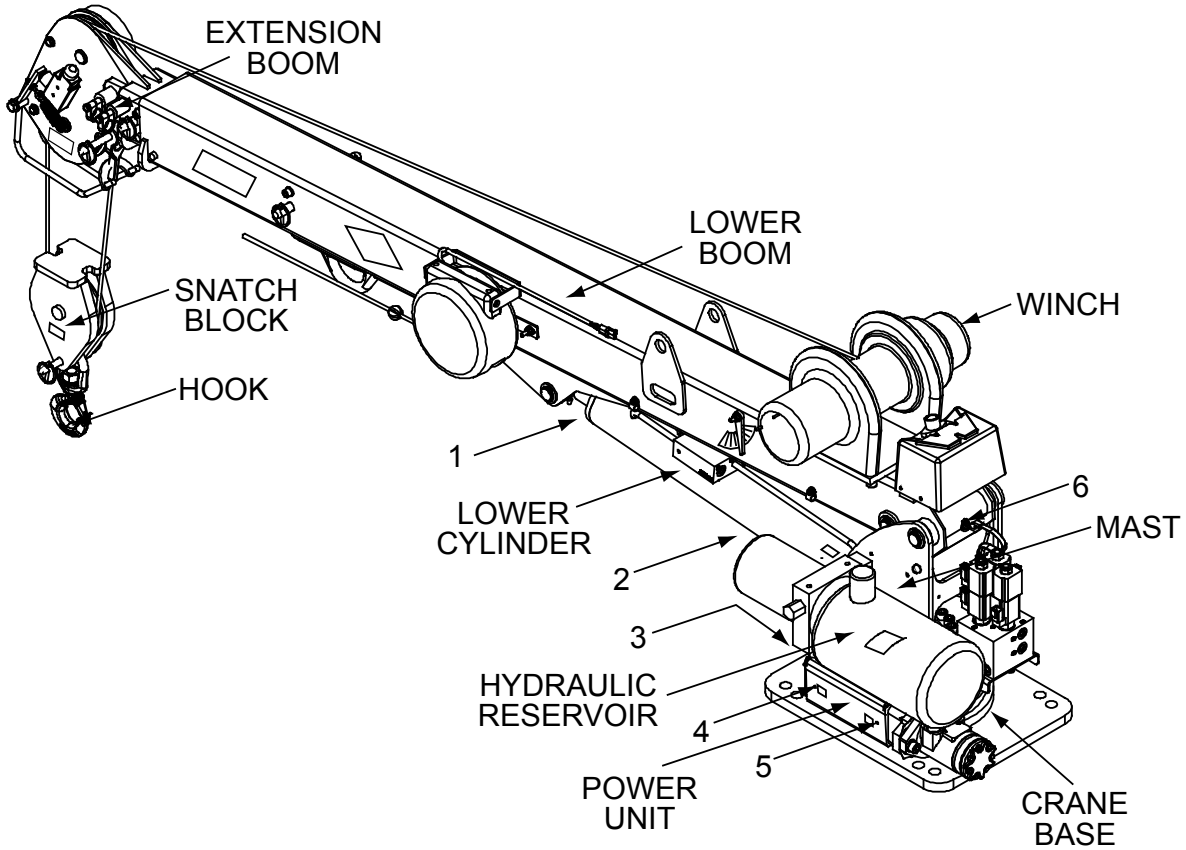
**NOTE:**

The five-minute duty cycle must be adhered to. operators have a choice of running the crane intermittently all day, using the duty cycles per the S2 and S3 curves, or at full power for 2.5 minutes, which **MUST** be followed by a complete cool-down to ambient.

Section - 3

Crane Reference

Assemblies & Grease Zerk Locations



ITEM NO.	LOCATION DESCRIPTION	LUBRICANT	FREQUENCY
1	LOWER CYLINDER ROD	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. GEARMATE® SUPER HEAVY OR EQUIVALENT	WEEKLY
2	LOWER CYLINDER BASE		
3	GEAR ROTATOR GREASE EXTENSION *ROTATE CRANE WHILE GREASING.		
4	POWER UNIT		
5	POWER UNIT		
6	LOWER BOOM PIN		

Weekly, remove cover and lubricate with IMT recommended open-gear compound while rotating crane. IMT part number: 89086247

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NOTE:

All application points must be greased weekly under normal workloads and moderate weather conditions. Under severe operating conditions, lubricate more frequently. See the IMT Electric Crane Operation & Safety manual P/N: 99905190, for additional lubrication requirements.

NOTE:

Image may be different depending on production date. Grease points should be identical.

5005i & 6006i (12V) Recommended Spare Parts List

51721395 LOWER CYLINDER		QTY.	
9D161823	SEAL KIT-IMT 4.00B 2.25R 1.44S	1	
6ID40143	PISTON-4.00 BORE X 1.44 STGR (DUCT IRON)	1	
6HD40022	HEAD-4.00 BORE X 2.25 ROD (DUCTILE IRON)	1	
73054999	VALVE-CBAL SUN01 CBBC-LHN	1	
77041786	SWITCH-PRESS 2750 PSI NC 42IN LEAD	1	
51721386 EXTENSION CYLINDER		QTY.	
51744143	IMT SEAL KIT-2.50 B X 1.50 R 1.25 STGR	1	
6HD25015	HEAD-2.50 BORE X 1.50 ROD (DUCTILE IRON)	1	
60127830	PISTON SEAL-DYNAMIC 2.50IN CP	1	
73054999	VALVE-CBAL SUN01 CBBC-LHN	1	
99904334 BASE & MAST ASSEMBLY 5005i / 99904454 BASE & MAST ASSEMBLY 6006i		QTY.	
60118032	CABLE CONNECTOR MODIFICATION	1	
72060173	CAP SCR .62-11X 3.75 HH	18	
73051513	MOTOR-HYD	1	
76039295	GASKET-GEAR	1	
77441336	SWITCH- 225A CONTACTOR (12 OR 24V)	1	
77441281	CABLE CONNECTOR-FEMALE	1	
77441285	TERMINAL RING, INSULATED 3/8 STUD	1	
72060178	CAP SCREW .62-11X 4.00 HEX HEAD GRADE 8 ZINC	15	
73735269 VALVE BANK (12V) / 73734375 VALVE BANK (24V)		QTY.	
77411036	COIL-M13-12D-20W-DE - 73735269	6	
73540704	VALVE-3P4W SV08-34-04-00-00-B-00 - 73735269	3	
77040527	COIL-24V LEAD WIRE NON POLARITY - 73734375	6	
73540336	VALVE-SOLENIOD 7 GPM W/ 24V COIL - 73734375	3	
5005i 73511282 12V POWER UNIT (EFF.10/11/12)		QTY.	
77043065	MOTOR (12V)	1	
73511307	PUMP	1	
73540517	RELIEF VALVE ASSEMBLY	1	
74399495	RESERVOIR	1	
70734788	BREATHER - CAP	1	
73734791	TUBE - SUCTION	1	
70734792	STRAINER	1	
6006i - 73511308 24V POWER UNIT		MODEL	QTY.
77043066	MOTOR (24V)		1
73511307	PUMP		1
73540517	RELIEF VALVE ASSEMBLY		1
74399495	RESERVOIR		1
70734788	BREATHER CAP		1
73734791	TUBE-SUCTION		1
70734792	STRAINER		1

RECOMMENDED SPARE PARTS CONTINUED

99904335 BOOM ASSEMBLY			QTY.
60030380	WEAR PAD- EXT CYLINDER 6006I		1
60030339	WEAR PAD-RND 2.00 DIA X .60 DIA X 1.00 LG		6
60030340	WEAR PAD-BLOCK 4.50 X 4.50 X .44		2
60030341	WEAR PAD-BLOCK 4.50 X 3.50 X .44		2
60133062	WEAR PAD-RND 1.00 DIA X .62 DIA X .81L		2
60132302	STOP SCREW 3/8-24 X .50		2
70144211	PIN- .75X 6.50LG WORKSAVER		1
70144209	PIN- .75X 4.50 LG WS80-WS100		1
60030134	SHEAVE- 8.00 NYLATRON GSM		2
5005i - 99904336 RIGGING COMPONENTS / 6006i - 99904456 RIGGING COMPONENTS			QTY.
51727065	CORD REEL ASM - 10.5' - W/PACKARD CONNECTOR		1
70580228	WIRE ROPE ASM-GALV.31(6X19)X80FT XIPS'		1
71413196	SPRING-.105WIRE 0.75OD 2.875 LG		1
72601798	WASHER-LOCK 12MM		4
72601935	CAP SCR M12-1.75X 40 SH PLAIN		4
72601938	BOLT-EYE # 8-32X 1.125		1
77041459	SWITCH-LIMIT ZE-N-2S		1
77441096	CONNECTOR- .50 STR RLF .25-.38		1
77041936	CONTACTOR-WINCH 12V DC3000		1
71570923 WINCH (12V)		MODEL	QTY.
77041801	CONTACTOR (12V OR 24V)	5005i	1
77041802	CONTACTOR (THROUGH 05/13/13)	6006i	1
77744175	BRUSH KIT	5005i	1
77744174	BRUSH KIT	6006i	1
77566638	BRAKE ASSEMBLY	5005i	1
77566637	BRAKE ASSEMBLY	6006i	1

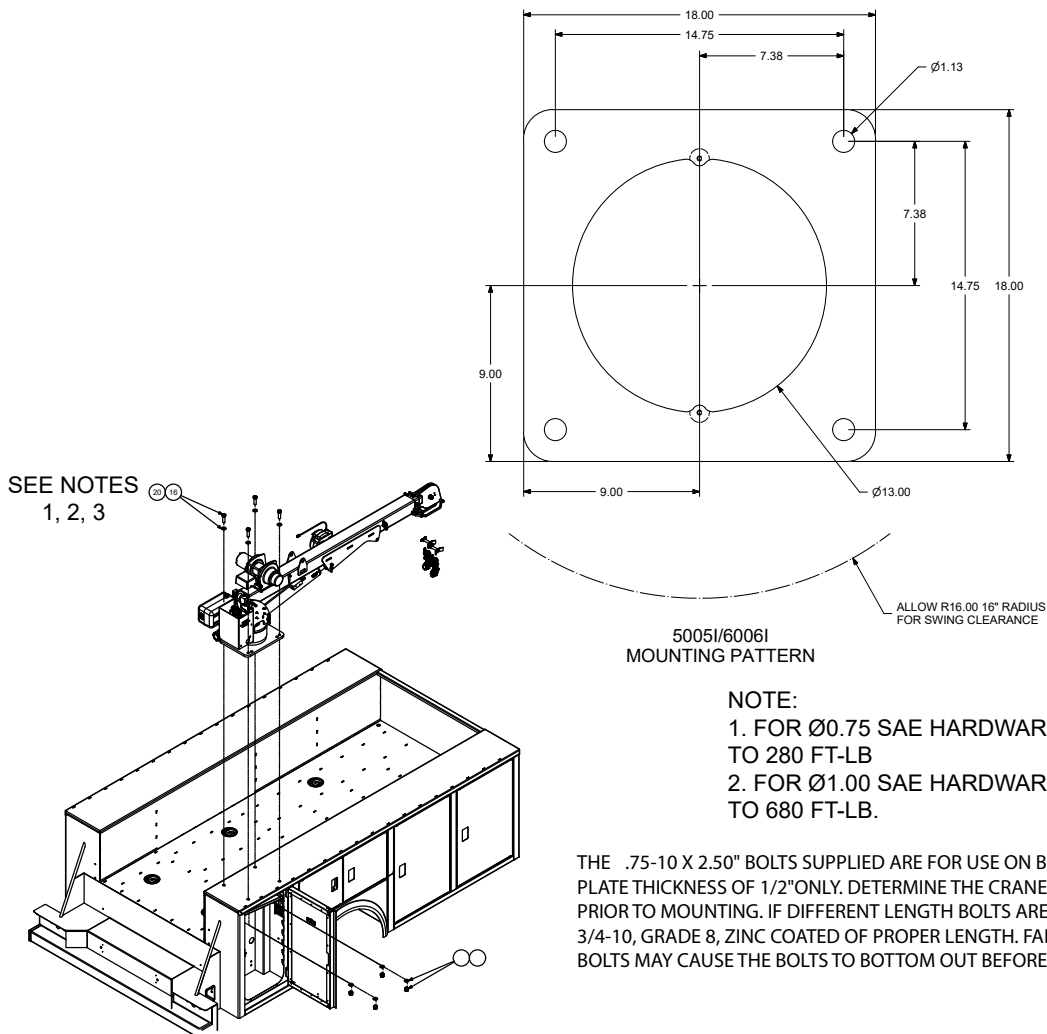
5005i & 6006i(12V) Crane Installation (99904394)

In addition to meeting the chassis requirements noted in the Technical Data section of this manual, make sure there is sufficient room for mounting the crane, and the platform is 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. Install the body on the chassis before installing the crane. Refer to the following table for parts referenced in the following crane installation drawings.

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	51721572	KIT-ELECTRICAL CRANE BODY INSTALLATION (FOR DUAL UNDERHOOD BATTERY)		1
2.	91721647	KIT-HRDW 3203I/4004I ELEC CRANE BODY INSTL		1
3.	91721751	KIT-HRDW 5005I ELEC CRANE BODY INSTL		1
4.	51725112	KIT-ELECTRIC CRANE BODY INSTALLATION		1
5.	51725572	KIT-ELECTRIC CRANE BODY INSTALLATION (FOR SINGLE UNDERHOOD BATTERY)		1
6.	99904317	DWG-CRANE & WINCH ASM 3203I		REF
7.	60251272	BRKT-SWITCH 300 AMP ELEC CRANE	1, 4, & 5	1
8.	70734331	SWITCH-300A KEYED BATTERY DISCONNECT	1, 4, & 5	1
9.	72042097	LEVEL INDICATOR LEVEL	1, 4, & 5	1
10.	77040209	TERM-RING NI .38 STUD 1 WIRE	1 & 4	1
11.	77040529	TERM-RING NI .31 STUD 1-2 WIRE	1 & 4	3
11.	77040529	TERM-RING NI .31 STUD 1-2 WIRE	5	9
12.	77441116	FUSEHOLDER-HIGH AMP2 BOLT WITH COVER	1	1
12.	77441116	FUSEHOLDER-HIGH AMP2 BOLT WITH COVER	5	2
13.	77441219	FUSE-AMG-225 AMP	1 & 4	1
13.	77441219	FUSE-AMG-225 AMP	5	2
14.	89044276	CABLE-#1 WELDING PRESTOL	1 & 5	35 FT
15.	89392333	TUBE-HEAT SHRINK AMP 603328-20	1, 4, & 5	.50 FT
16.	72060207	CAP SCR .75-10X 3.00 HH GR8 Z	2	4
17.	72601621	CAP SCR 1.00- 8X 3.00 HH GR8 Z	3	4
18.	72601862	NUT .75-10 HEX GR8 YZ NYLOCK	2	4
19.	72062375	NUT 1.00- 8 HEX GR8 YZ NYLOCK	3	4
20.	72063116	WASHER .75 N FLAT H ASTM F436Z	2	8
21.	72063066	WASHER 1.00 FLAT HI STR	3	8
22.	72060002	CAP SCR .25-20X .75 HH GR5 Z	2 & 3	4
23.	72060634	SCR-MACH #10-24X .50 RDH	2 & 3	4
24.	72062000	NUT .25-20 HEX	2 & 3	4
25.	72062106	NUT 10-24 HEX NYLOCK	2 & 3	4
26.	72063001	WASHER .25 FLAT	2 & 3	8
27.	77441396	WIRE-2 GA GXL RED	4	35 FT
28.	77040009	TERM-RING NI .38 STUD 2 WIRE	4	1
29.	77041774	STUD-BULKHEAD PASS THRU 3/8" BLACK		1
REV. G				

NOTES:

- USE A LIFTING DEVICE CAPABLE OF LIFTING THE WEIGHT OF THE CRANE AS INDICATED IN THE TECHNICAL DATA SECTION OF THIS MANUAL. ATTACH FABRIC SLINGS TO THE CRANE LOWER BOOM, CENTERED APPROXIMATELY 18 INCHES (46 CM) FROM THE MAST HINGE. MAKE CERTAIN THE CRANE IS WELL BALANCED ON THE SLINGS BY SLOWLY LIFTING APPROXIMATELY 6" (15 CM) OFF THE GROUND. LIFT THE CRANE AND APPLY A BEAD OF WATERPROOF COMPOUND, SUCH AS SILICON BASED CAULK, TO THE BOTTOM OF THE BASE. MOVE THE CHASSIS UNDER THE CRANE AND LOWER THE CRANE INTO THE DESIRED POSITION. INSTALL THE 1-8X3" MOUNTING CAP SCREWS (ITEM # 17), 1" NUTS (ITEM #19) AND 1" WASHERS (ITEM #) TO SECURE THE CRANE BASE TO THE TRUCK BODY (SEE FIGURE). TORQUE THE CAP SCREWS TO 680 FT-LB (94 KG-M).

**NOTE:**

- FOR $\varnothing 0.75$ SAE HARDWARE TORQUE TO 280 FT-LB
- FOR $\varnothing 1.00$ SAE HARDWARE TORQUE TO 680 FT-LB.

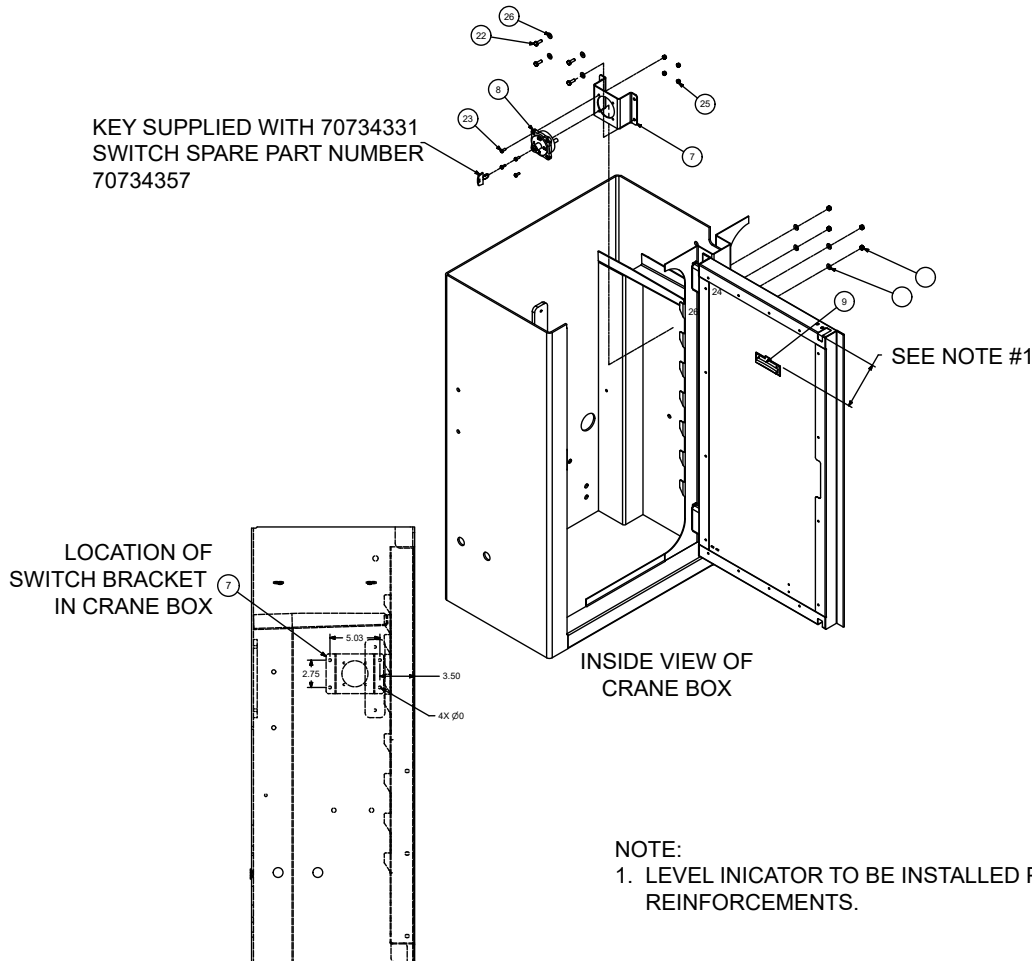
THE $.75-10 \times 2.50$ " BOLTS SUPPLIED ARE FOR USE ON BODIES WITH A CRANE BOX TOP PLATE THICKNESS OF $1/2$ " ONLY. DETERMINE THE CRANE BOX TOP PLATE THICKNESS PRIOR TO MOUNTING. IF DIFFERENT LENGTH BOLTS ARE REQUIRED, THEY MUST BE 3/4-10, GRADE 8, ZINC COATED OF PROPER LENGTH. FAILURE TO USE PROPER LENGTH BOLTS MAY CAUSE THE BOLTS TO BOTTOM OUT BEFORE TORQUING.

THE $1.00-8 \times 3.00$ " BOLTS SUPPLIED ARE FOR USE ON BODIES WITH A CRANE BOX TOP PLATE THICKNESS OF $7/8$ " TO 1.00 " ONLY. DETERMINE THE CRANE BOX TOP PLATE THICKNESS PRIOR TO MOUNTING. IF DIFFERENT LENGTH BOLTS ARE REQUIRED, THEY MUST BE 1.00-8, GRADE 8, ZINC COATED, OF PROPER LENGTH. FAILURE TO USE PROPER LENGTH BOLTS MAY CAUSE THE BOLTS TO BOTTOM OUT BEFORE TORQUING.

- THE ELECTRICAL POWER SWITCH (ITEM #8) PROVIDES POWER FOR THE CRANE. INSTALL THE SWITCH ONTO THE POWER UNIT COVER.

NOTE:

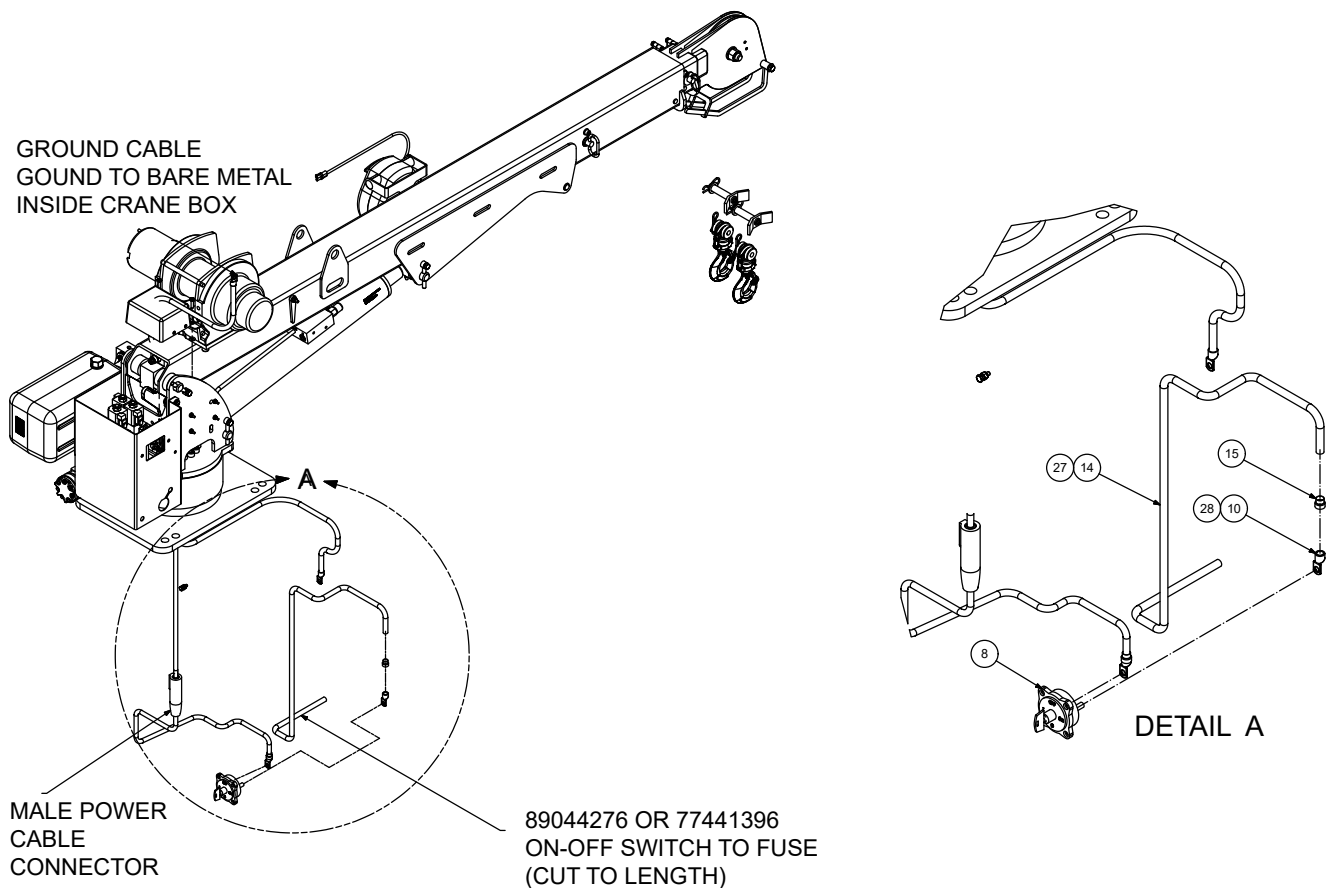
THE 1-8 X 3" GRADE 8 ZINC COATED CAPSCREWS ARE DESIGNED FOR A CRANE BOX THICKNESS OF $7/8$ " TO 1" ONLY. A DIFFERENT CRANE BOX MAY REQUIRE DIFFERENT CAPSCREWS. ALL MOUNTING CAPSCREWS MUST BE GRADE 8 ZINC COATED OF PROPER LENGTH. FAILURE TO USE PROPER LENGTH CAPSCREWS COULD CAUSE THE BOLTS TO BOTTOM OUT BEFORE TORQUED.

CRANE INSTALLATION - CONTINUED

3. INSTALL THE VEHICLE LEVEL INDICATOR (ITEM #9) PARALLEL TO THE DOOR REINFORCEMENTS.
4. AFTER MOUNTING YOUR CRANE, WIRE THE CRANE TO THE VEHICLE'S 12VDC ELECTRICAL SYSTEM USING THE FOLLOWING STEPS. USE THE PARTS LIST ABOVE TO IDENTIFY PARTS. YOUR CRANE INSTALLATION KIT, 51721572, INCLUDES A 10.7 M (35') LONG CABLE, IMT # 89044276 (ITEM #14 IN THE PARTS LIST). APPROXIMATELY 7.6 M (25') OF THIS CABLE IS REQUIRED TO CONNECT THE CRANE POWER SWITCH TO THE VEHICLE BATTERY, AND THE REST OF THE CABLE IS USED FOR GROUND CONNECTIONS BETWEEN THE CRANE, VEHICLE BATTERY, AUXILIARY BATTERY, AND CHASSIS GROUND. CUT THE CABLE TO LENGTH AFTER DETERMINING THE LENGTHS REQUIRED.
5. GROUND THE CRANE BY CONNECTING THE CRANE GROUND CABLE TO BARE METAL INSIDE THE CRANE BOX.
6. CONNECT THE CRANE POWER CABLE FROM THE MALE POWER CABLE CONNECTOR TO THE POWER SWITCH. CONNECT CABLE (ITEM #14 - 89044276), CUT TO LENGTH, FROM THE CRANE POWER SWITCH (ITEM #8) TO THE FUSE. USE 3/8" (0.95 CM) RING TERMINALS (ITEM #10 - 77040209) FOR EACH CONNECTION. HEAT SHRINK THE CONNECTIONS (ITEM #15 - 89392333).

WARNING

Protect the power cable from damage by fastening it inside the frame channel and covering it with protective covering including loom, conduit, etc. Be sure to use rubber grommets or other protection when running the power cable through steel bulkheads.

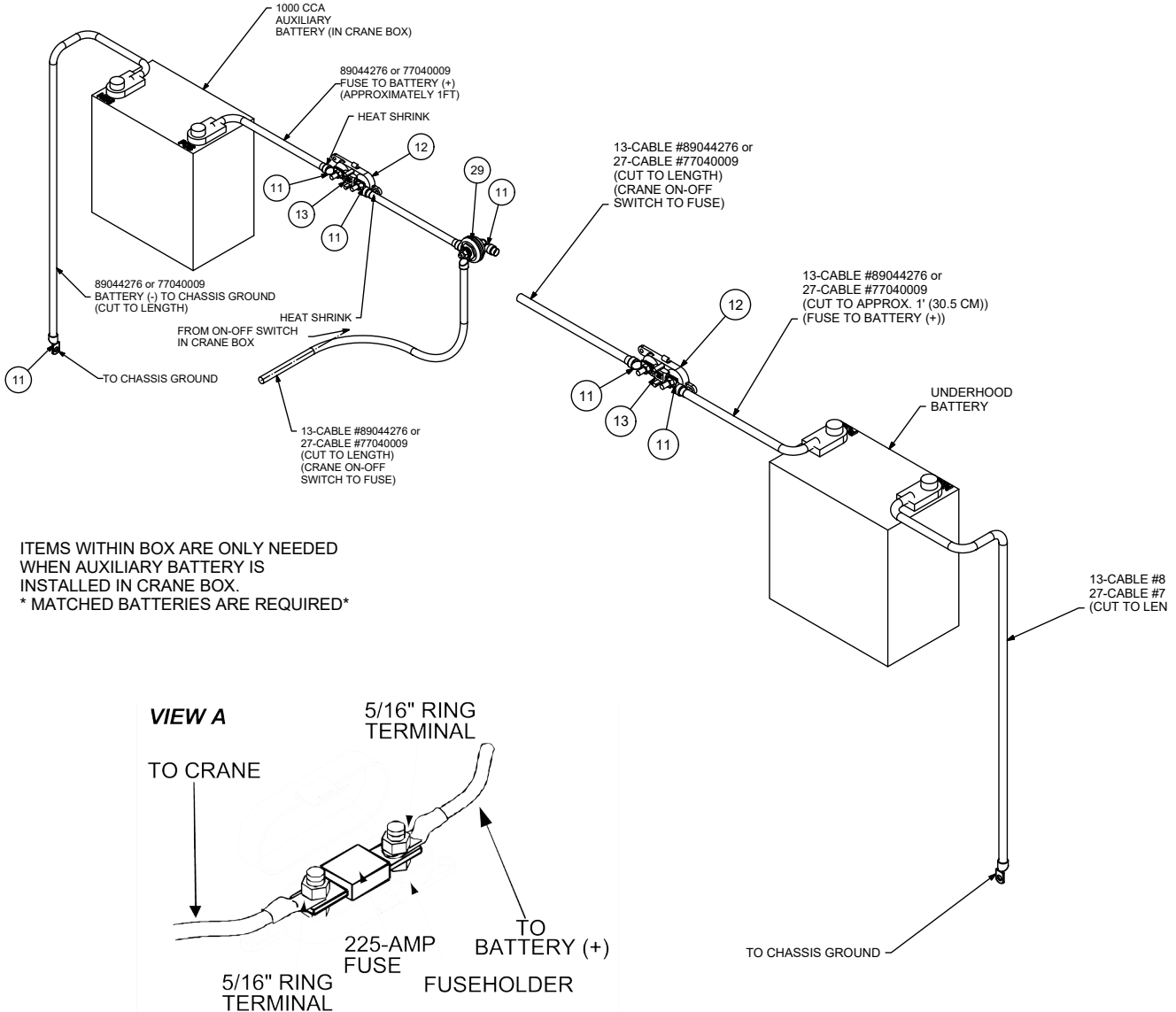


7. USE APPROXIMATELY 4' (1.2 M) OF THE CABLE (ITEM #14) TO GROUND BOTH THE VEHICLE BATTERY AND AUXILIARY BATTERY. CONNECT ONE END OF THE GROUND CABLE TO THE NEGATIVE TERMINAL ON THE VEHICLE BATTERY, AND THE OTHER END TO BARE METAL ON THE TRUCK BODY. USE A 5/16" (0.79 CM) RING TERMINAL (ITEM #11 - 77040529) TO CONNECT TO THE TRUCK BODY.

⚠ WARNING

Install the ground cable to the negative terminal of the batteries! The crane electrical ground completes the electrical circuit through the structure of the crane to the vehicle frame. The vehicle factory ground is NOT sufficient to carry the current required by the crane. Without this extra ground cable, your crane may not operate at rated capacity, and motor, contactor, or electrical damage may occur.

8. MOUNT THE 225-AMP FUSE HOLDER (ITEM #12) CLOSE TO THE VEHICLE BATTERY IN A LOCATION WHICH CAN BE EASILY ACCESSED IF THE FUSE NEEDS TO BE REPLACED. REPEAT WITH THE AUXILIARY BATTERY. USE APPROXIMATELY ONE-FOOT (30.5 CM) OF CABLE (ITEM #14) TO CONNECT THE POSITIVE TERMINAL ON THE VEHICLE BATTERIES TO THE FUSE HOLDERS. CONNECT THE OTHER END OF EACH FUSE HOLDER TO THE BULKHEAD PASS-THROUGH CONNECTOR FROM STEP #6, WHICH IS THEN CONNECTED TO THE CRANE POWER SWITCH. CABLES CONNECT TO THE FUSE HOLDERS USING 5/16" (0.79 CM) RING TERMINALS (ITEM #11 - 77040529). HEAT SHRINK CONNECTIONS.

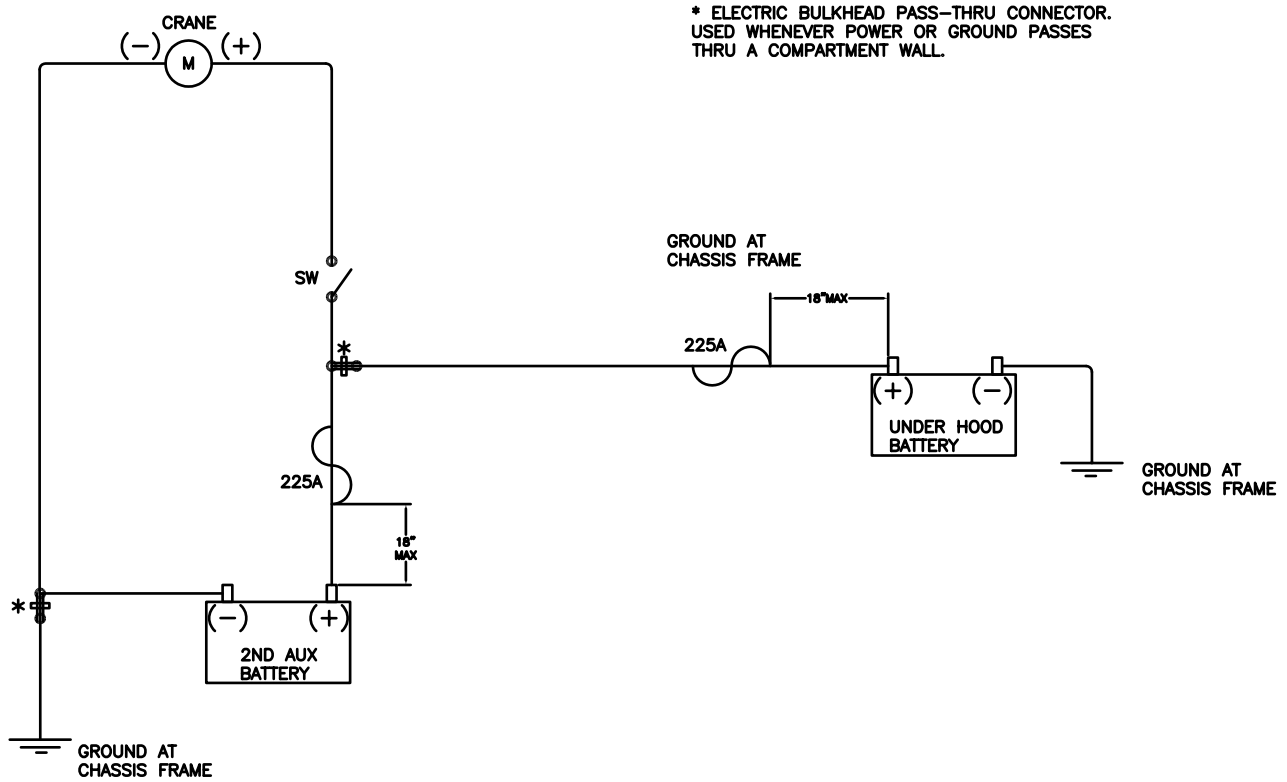


ITEMS WITHIN BOX ARE ONLY NEEDED WHEN AUXILIARY BATTERY IS INSTALLED IN CRANE BOX.
 * MATCHED BATTERIES ARE REQUIRED*

NOTES:

1. USE BULKHEAD PASS-THROUGH CONNECTORS WHEN POWER OR GROUND PASSES THROUGH A COMPARTMENT WALL (IMT #77041774)
2. REFERENCE DRAWING 99904884 FOR WIRING DIAGRAM.
3. USE THE HIGHEST RATING COLD-CRANKING AMP BATTERY AVAILABLE UP TO 1,000 CCA. UNDERHOOD AND AUXILIARY BATTERIES MUST BE IDENTICAL.

5005i & 6006i(12V) Electric Crane Battery Circuit (99904884)

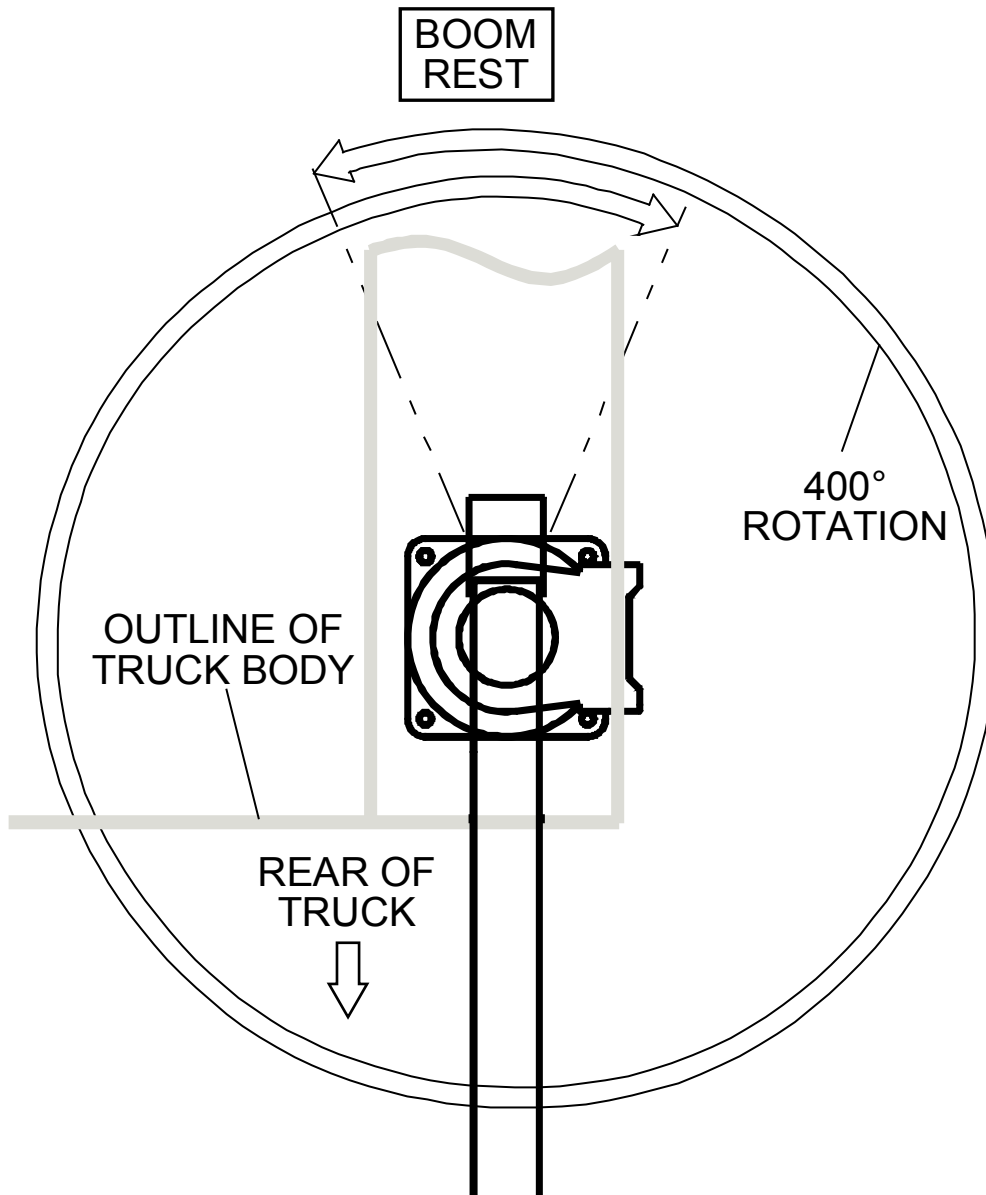


NOTE:

1. ELECTRIC BULKHEAD PASS-THRU CONNECTOR. USE WHENEVER POWER OR GROUND PASSES THROUGH A COMPARTMENT WALL.

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.



Electric Crane Control

IMT's Electric Cranes are controlled by radio or tethered remote controls. This telescopic crane includes a tethered remote control with a radio remote control option. For complete details on operating your telescopic crane, refer to the IMT *Electric Cranes Operation & Safety* manual, part number 99904381.

Section 4

Parts

Parts Information

GENERAL

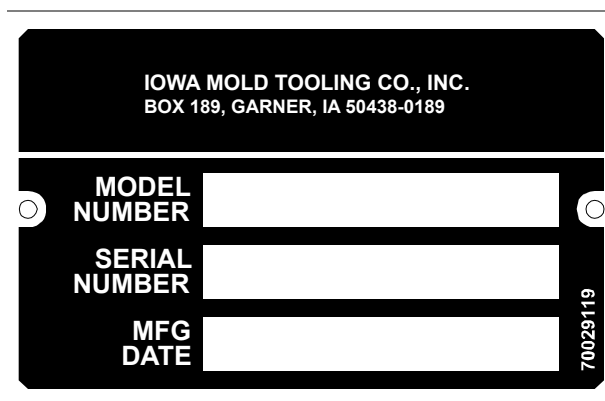
This section contains the exploded parts drawings and accompanying parts lists for the assemblies used on this crane. These drawings are intended to be used in conjunction with the instructions found in the maintenance and repair manuals for this crane family. For optional equipment such as winches and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

⚠ WARNING
<p>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.</p>

CRANE IDENTIFICATION

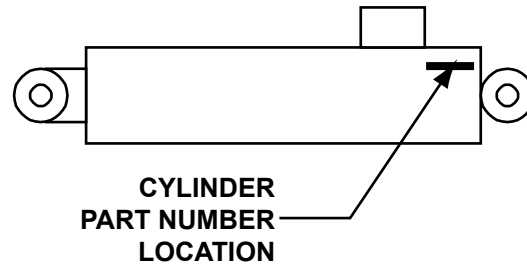
Every IMT crane has an identification placard (see figure). This placard is attached to the inner boom, mast, or crane base. When ordering parts, communicating warranty information, or referring to the unit in correspondence, always include the serial number and model numbers. Address all inquiries to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

Iowa Mold Tooling Co., Inc.
 Box 189, Garner, IA 50438-0189
 Telephone: 641-923-3711
 Technical Support Fax: 641-923-2424



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.

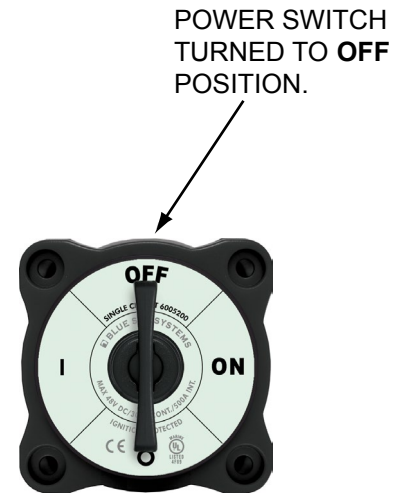
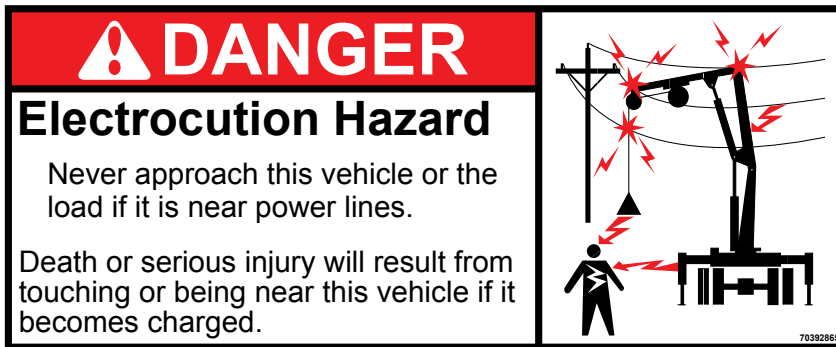
Each of the major weldments - base, mast, inner boom, outer boom, extension boom and stabilizer weldments bear a stamped part number. Any time a major weldment is replaced, you must specify the complete part number as stamped on the weldment. The locations of the part numbers are shown in the Crane Reference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

ORDERING REPAIR PARTS

1. When ordering replacement parts:
2. Give the model number of the unit.
3. Give the serial number of the unit. 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.

Electric Crane Power Safety

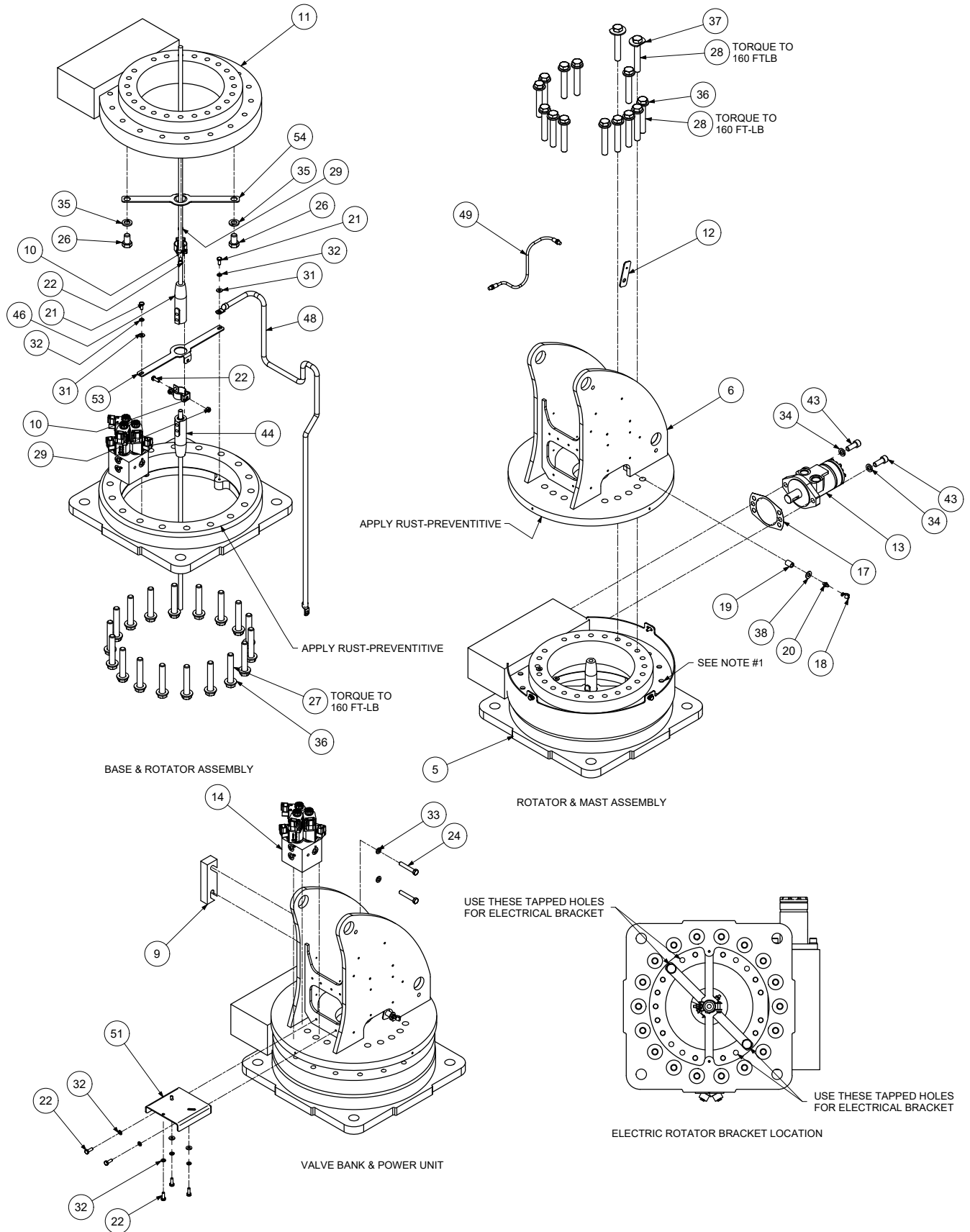
Your electric crane runs using power from the vehicle battery. Before beginning major maintenance or repairs, disconnect the power to the crane.



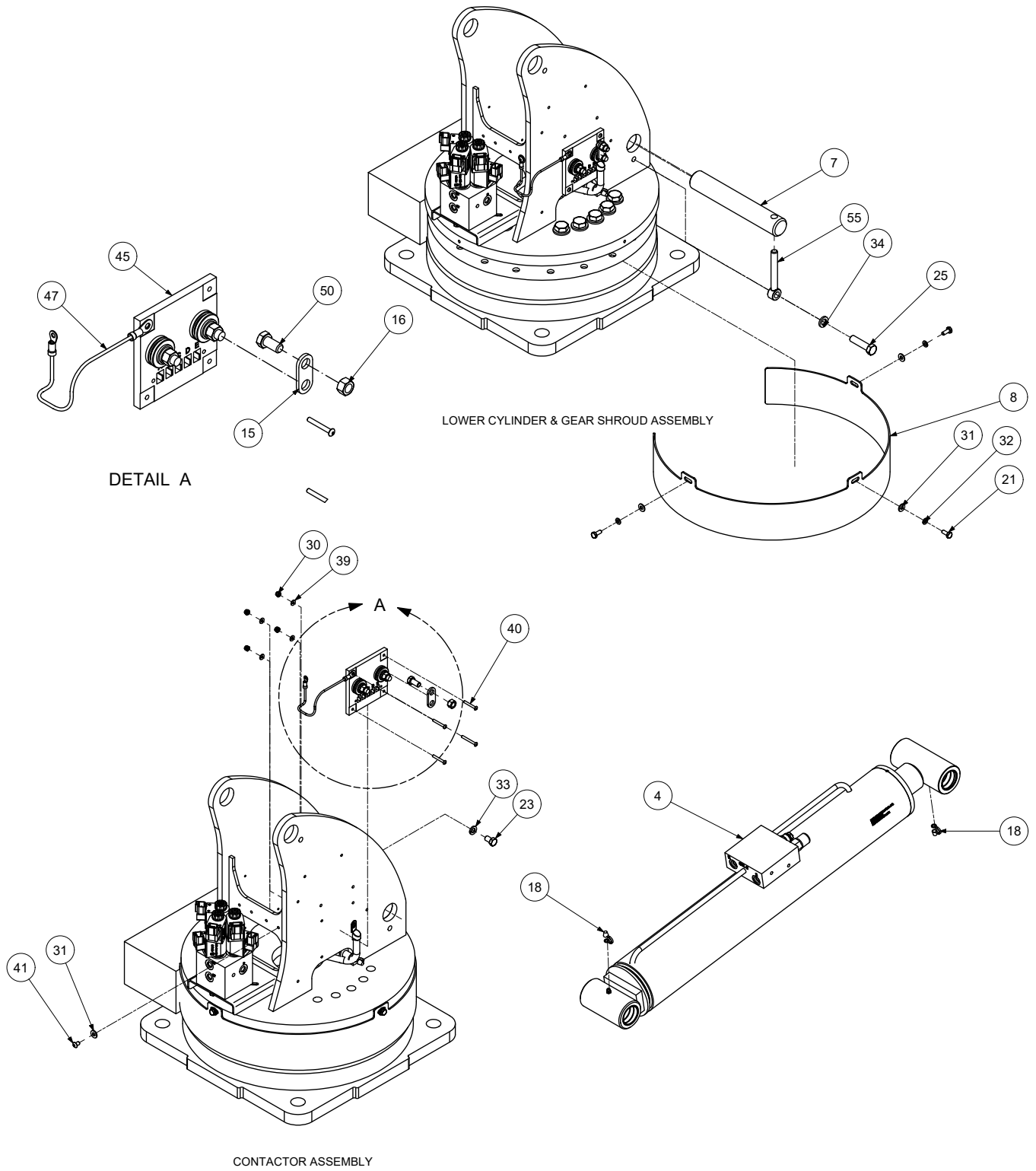
1. Make sure the power switch located inside the crane cabinet is turned to the OFF position.
2. Make sure the crane power disconnect cable is disconnected from the vehicle battery.

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5005i - Mast Assembly (99904334)



5005I - MAST ASSEMBLY CONTINUED (99904334)



99904334 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	51721422	KIT-HRDW BASE & MAST 5005I		REF
2.	91722221	KIT- 5005I ELECTRICAL INSTALLATION		REF
3.	51721707	KIT-HYD 5005I		REF
4.	51721395	CYL-4.0/2.2 21.43S 33.52CC C		1
5.	52725224	WLDMT- BASE 5005I-6006I		1
6.	52722162	MAST WELDMENT-5005I/6006I		1
7.	60141134	PIN-TYPE NN 1.50X 9.25		1
8.	60132610	SHROUD- TURNTABLE GEAR 5005I		1
9.	60132385	SPACER- POWER UNIT		1
10.	70580194	CLAMP-1" CONDUIT HANGER W/BOLT		2
11.	71056632	GEAR-TRNTBL BRG 17.60" DIA		1
12.	60132856	BRKT-GREASE HOSE MNTG 4004I		1
13.	73051513	MOTOR-HYD 158-1083-001		1
14.	73735269	VALVE BANK ASM-3SEC ELEC CRN DANFOSS		1
15.	60133635	CONTACT JUNCTION		1
16.	72062002	NUT .38-16 HEX	1	1
17.	76039295	GASKET-GEA19 008-10056-1		1
18.	70034382	CAP-GREASE PRO20 GC-RED	1	3
19.	72053301	COUPLING-GLV .12 SCH 40	1	1
20.	72053508	ZERK-NPT .12	1	1
21.	72060001	CAP SCR .25-20X .62 HH GR5 Z	1	5
22.	72060002	CAP SCR .25-20X .75 HH GR5 Z	1	7
23.	72060043	CAP SCR .38-16X .62 HH GR5 Z	1	1
24.	72060051	CAP SCR .38-16X 2.25 HH GR5 Z	1	2
25.	72060095	CAP SCR .50-13X 2.00 HH GR5 Z	1	1
26.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	1	2
27.	72060173	CAP SCR .62-11X 3.75 HH GR8 Z	1	18
28.	72060178	CAP SCR .62-11X 4.00 HH GR8 Z	1	15
29.	72062104	NUT .25-20 HEX NYLOCK	1	2
30.	72062207	NUT 8-32 HEX NYLOCK	1	4
31.	72063001	WASHER .25 FLAT	1	8
32.	72063049	WASHER .25 LOCK	1	10
33.	72063051	WASHER .38 LOCK	1	3
34.	72063053	WASHER .50 LOCK	1	3
35.	72063055	WASHER .62 LOCK	1	2
36.	72063119	WASHER .62 FLAT ASTM F436	1	31
37.	72063216	WASHER .62 N FLAT-CUT 3816	1	2
38.	72063242	WASHER .38 W FLAT ANSI B27.2 D	1	1
39.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	1	4
40.	72602009	SCR-MACH # 8-32X 1.25 BTNHD SS	1	3
41.	72601941	SCR-MACH .25-20X .38 BTNHD ZC	1	1
42.	72602010	SCR-MACH # 8-32X 1.50 BTNHD SS	1	1
43.	72601949	CAP SCR .50-13X 1.25 SH ZC	1	2
44.	51721944	CABLE ASM- 1GA-3/8RNGX SWVL MX 60.00LG	2	1

45.	77441336	SWITCH- 275A CONTACTOR (SSC42-275)		1
46.	51722218	CABLE ASM- 1GA-3/8RNGX SWVL FX 13.50LG	2	1
47.	77441312	CABLE ASM-10GA-#10RNGX 1/4RNGX 6.00LG	2	1
48.	77441332	CABLE ASM- 1GA-1/4RNGX 3/8RNGX 46.50LG BLK		1
49.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	3	1
50.	72060044	CAP SCR .38-16X .75 HH GR5 Z	1	1
51.	60132301	BRKT-VLV MNT		1
52.	73511282	POWER UNIT- 2.54CC 12VDC		1
53.	60141131	PLATE-ELEC ROTATOR BRKT BOTTOM		1
54.	60141130	PLATE- ELEC ROTATOR BRKT TOP 6006I		1
55.	71415015	KEEPER-PIN .50		1
REV. H				

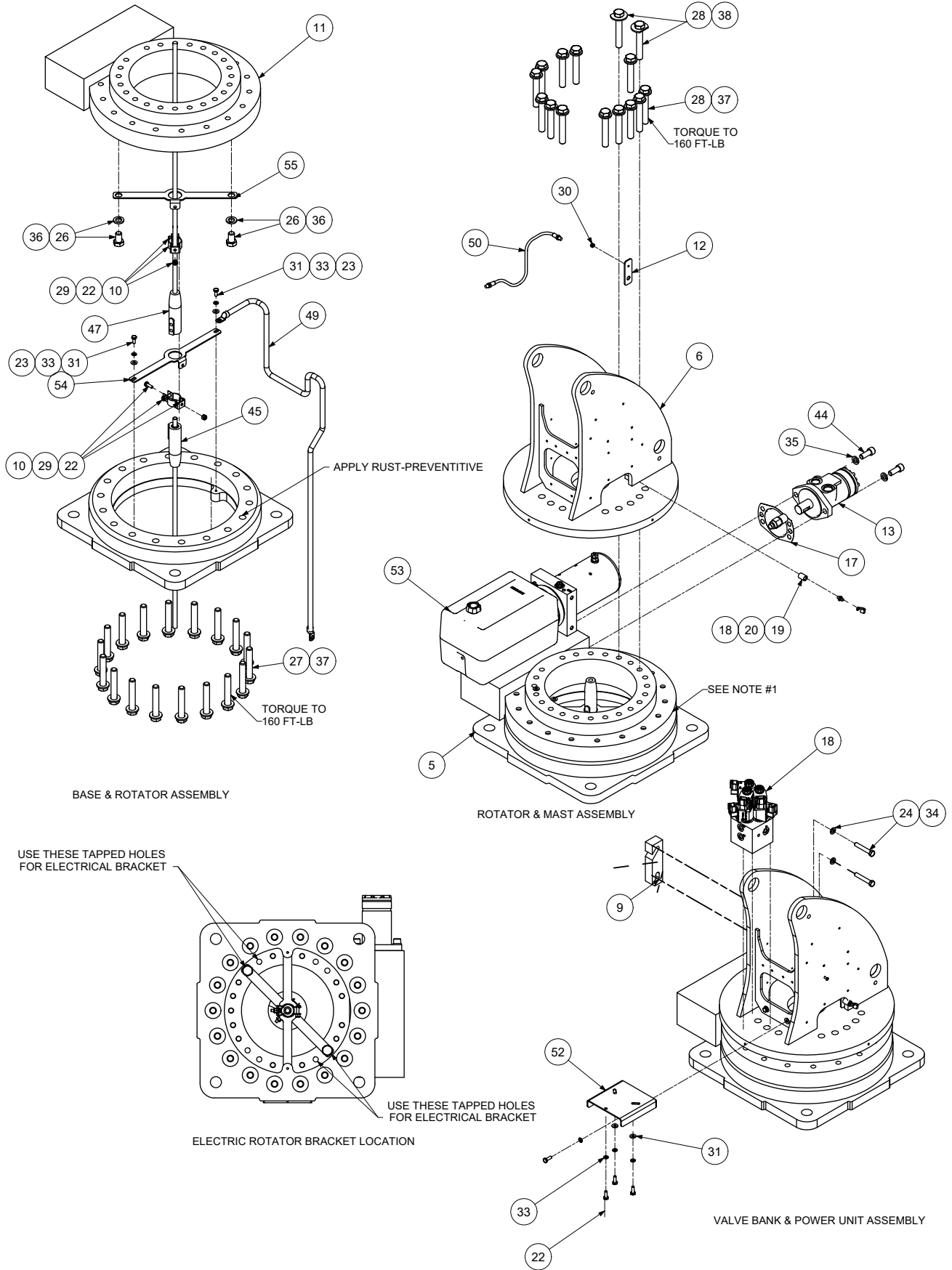
NOTES

1. APPLY BLACK "MOLUB-ALLOY 936 SF HEAVY" GEAR GREASE TO TURNTABLE GEAR.

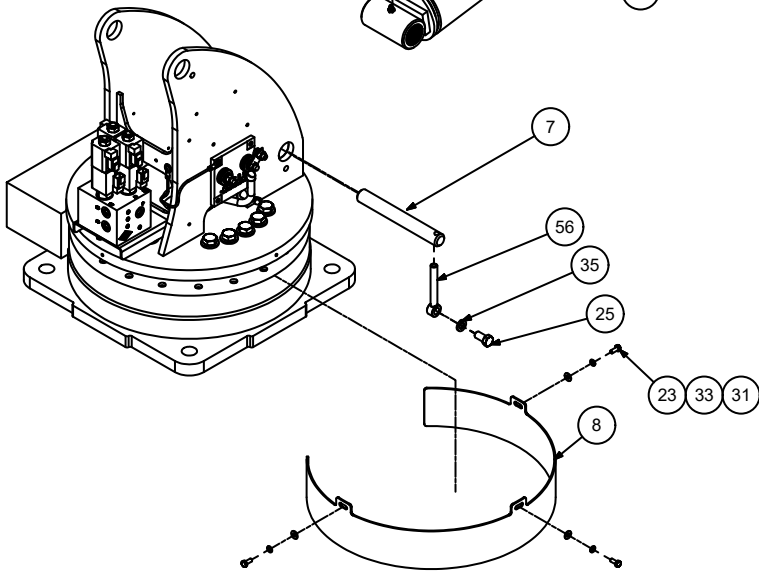
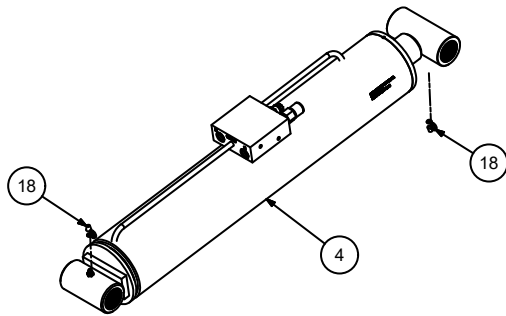
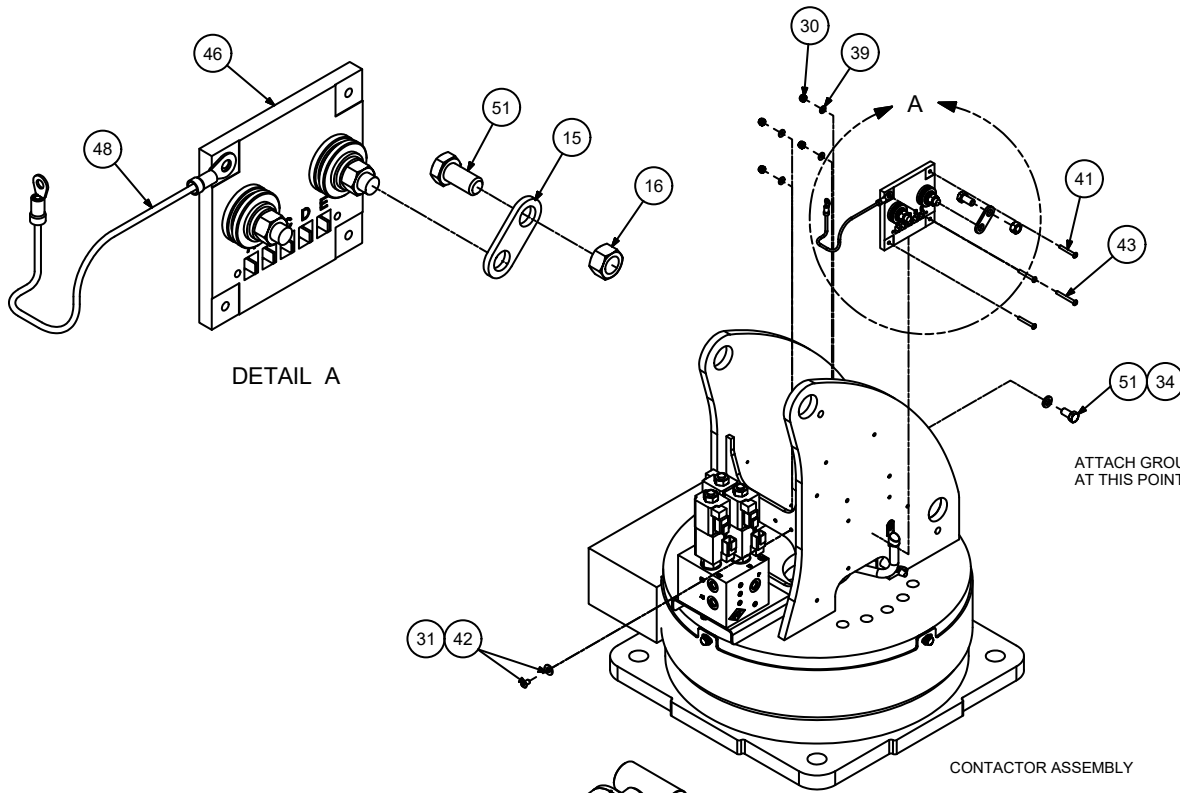

WARNING

DO NOT CONNECT ELECTRICAL POWER TO CRANE UNTIL ALL CONNECTIONS HAVE BEEN TESTED. SEVERE INJURIES COULD OCCUR. ENSURE THAT ELECTRICAL WIRES AND GROUND ARE ATTACHED TO THE COMPONENTS BEFORE CONNECTING THEM TO THE MAST.

6006i - Mast Assembly (99904454)



6006I - MAST ASSEMBLY CONTINUED (99904454)



LOWER CYLINDER & GEAR SHROUD ASSEMBLY

COMPLETE PARTS LIST (99904454)

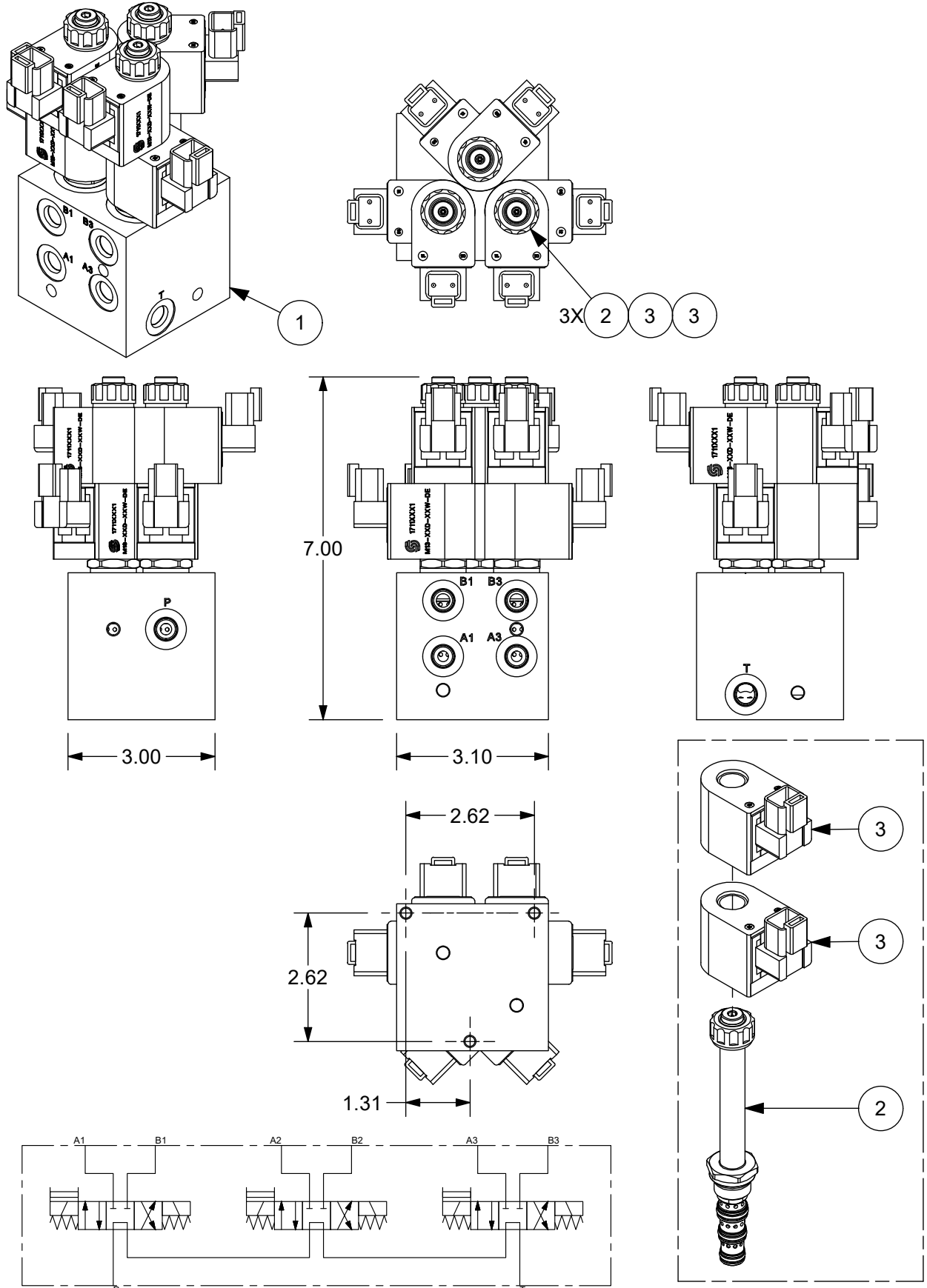
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	51721422	KIT-HRDW BASE & MAST 5005I		1
2.	91722221	KIT- 5005I ELECTRICAL INSTALLATION		1
3.	51721707	KIT-HYD 5005I		1
4.	51721396	CYL- 4.50B X 2.25R X 21.43S 33.45 CC C		1
5.	52725224	WLDMT- BASE 5005I-6006I		1
6.	52722162	MAST WELDMENT-5005I/6006I		1
7.	60141134	PIN-TYPE NN 1.50X 9.25		1
8.	60132610	SHROUD- TURNTABLE GEAR 5005I		1
9.	60132385	SPACER- POWER UNIT		1
10.	70580194	CLAMP-1" CONDUIT HANGER W/BOLT		2
11.	71056632	GEAR-TRNTBL BRG 17.60" DIA		1
12.	60132856	BRKT-GREASE HOSE MNTG 4004I		1
13.	73051513	MOTOR-HYD 158-1083-001		1
14.	73735269	VALVE BANK ASM-3SEC ELEC CRN DANFOSS		1
15.	60133635	CONTACT JUNCTION		1
16.	72062002	NUT .38-16 HEX	1	1
17.	76039295	GASKET-GEA19 008-10056-1		1
18.	70034382	CAP-GREASE PRO20 GC-RED	1	3
19.	72053301	COUPLING-GLV .12 SCH 40	1	1
20.	72053508	ZERK-NPT .12	1	1
22.	72060002	CAP SCR .25-20X .75 HH GR5 Z	1	7
23.	72060001	CAP SCR .25-20X .62 HH GR5 Z		5
24.	72060051	CAP SCR .38-16X 2.25 HH GR5 Z	1	2
25.	72060091	CAP SCR .50-13X 1.00 HH GR5 Z	1	1
26.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	1	2
27.	72060173	CAP SCR .62-11X 3.75 HH GR8 Z	1	18
28.	72060178	CAP SCR .62-11X 4.00 HH GR8 Z	1	15
29.	72062104	NUT .25-20 HEX NYLOCK	1	2
30.	72062207	NUT 8-32 HEX NYLOCK	1	4
31.	72063001	WASHER .25 FLAT	1	10
33.	72063049	WASHER .25 LOCK	1	10
34.	72063051	WASHER .38 LOCK	1	3
35.	72063053	WASHER .50 LOCK	1	3
36.	72063055	WASHER .62 LOCK	1	2
37.	72063119	WASHER .62 FLAT ASTM F436	1	31
38.	72063216	WASHER .62 N FLAT-CUT 3816	1	2
39.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	1	4
41.	72602009	SCR-MACH # 8-32X 1.25 BTNHD SS	1	3
42.	72601941	SCR-MACH .25-20X .38 BTNHD ZC	1	1
43.	72602010	SCR-MACH # 8-32X 1.50 BTNHD SS	1	1
44.	72601949	CAP SCR .50-13X 1.25 SH ZC	1	2
45.	51721944	CABLE ASM- 1GA-3/8RNGX SWVL MX 60.00LG	2	1
46.	77441336	SWITCH- 275A CONTACTOR (SSC42-275)	2	1
47.	51722218	CABLE ASM- 1GA-3/8RNGX SWVL FX 13.50LG	2	1

48	77441312	CABLE ASM-10GA-#10RNGX 1/4RNGX 6.00LG	2	1
49	77441332	CABLE ASM- 1GA-1/4RNGX 3/8RNGX 46.50LG BLK	2	1
50	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	3	1
51	72060044	CAP SCR .38-16X .75 HH GR5 Z	1	2
52	60132301	BRKT-VLV MNT		1
53	73511282	POWER UNIT- 2.54CC 12VDC		1
54	60141131	PLATE-ELEC ROTATOR BRKT BOTTOM		1
55	60141130	PLATE- ELEC ROTATOR BRKT TOP 6006I		1
56	71415015	KEEPER-PIN .50		1
REV. M				

▲ WARNING

DO NOT CONNECT ELECTRICAL POWER TO CRANE UNTIL ALL CONNECTIONS HAVE BEEN TESTED. SEVER INJURY COULD RESULT. ATTACH ELECTRICAL WIRES AND GROUNDS TO COMPONENTS BEFORE CONNECTING TO MAST.

Valve Bank (73735269) 12V



73735269 PARTS LIST

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

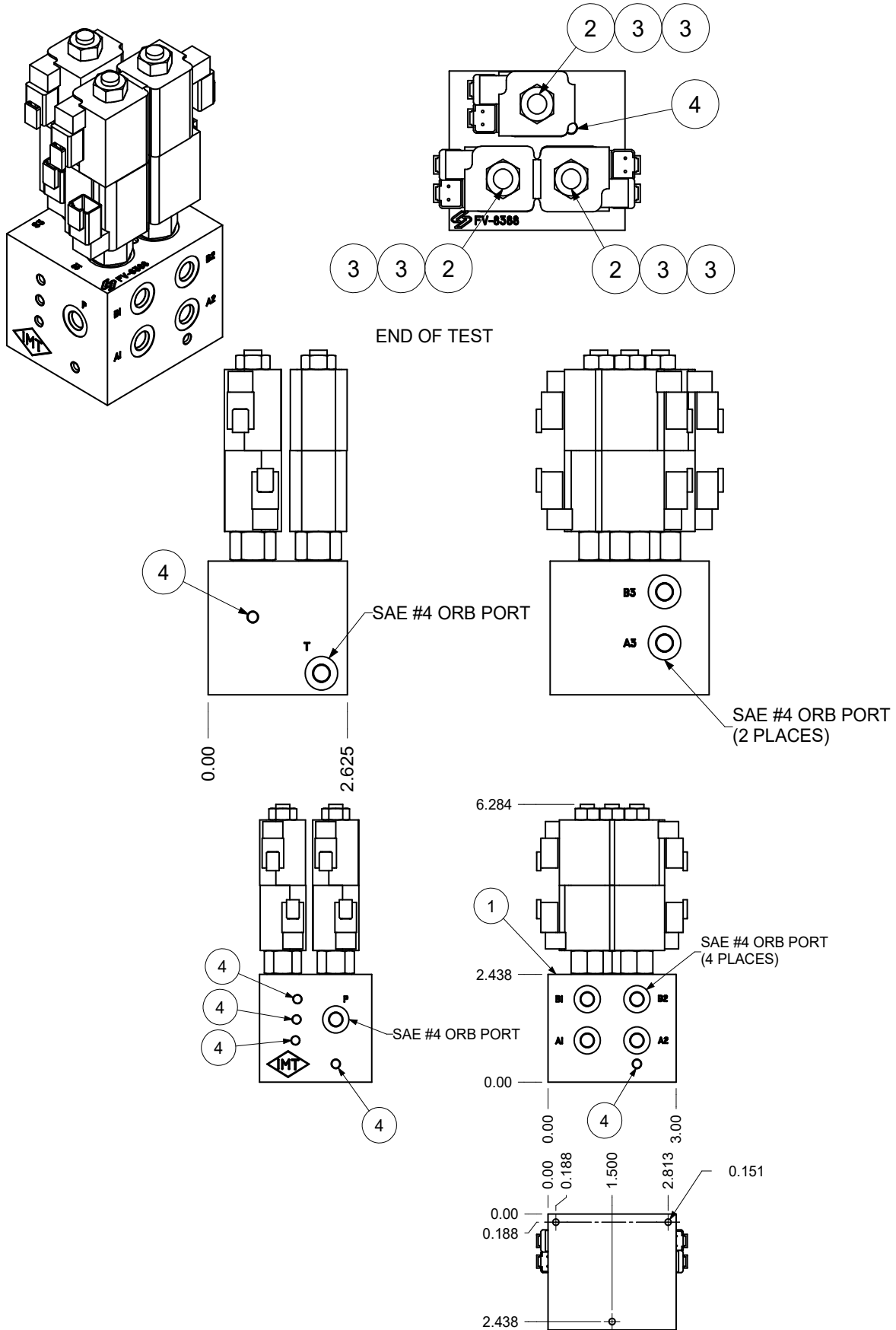
NOTE:

VALVE BANK 73735269 REPLACED 73734304 EFFECTIVE MAY 2022.

FOR PARTS NOT LISTED, PLEASE CONTACT IMT TECHNICAL SUPPORT:

IOWA MOLD TOOLING CO., INC.
BOX 189, GARNER, IA 50438-0189
TELEPHONE: 641-923-3711
TECHNICAL SUPPORT FAX: 641-923-2424

Valve Bank (73734375) 24V



73734375 PARTS LIST

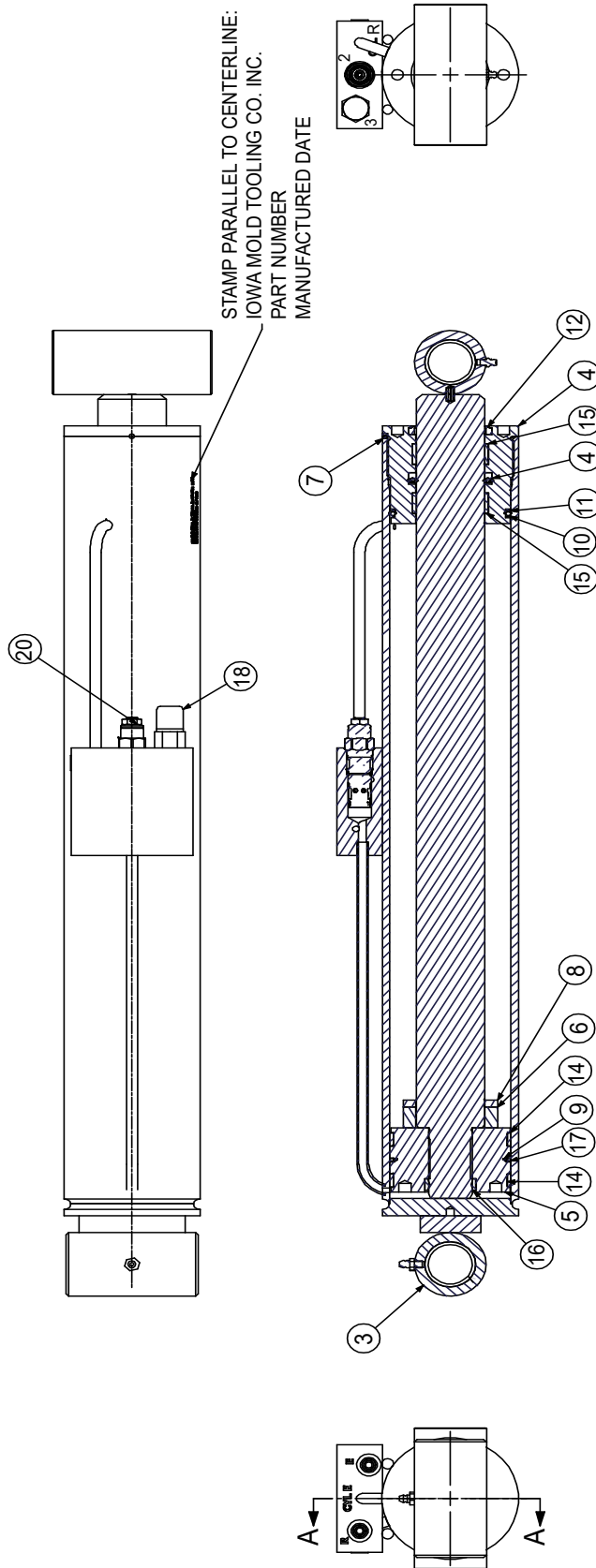
ITEM NO.	PART NO.	DESCRIPTION (24V)	QTY.
1		MANIFOLD VALVE BODY	1
2	73540336	SOLENOID VALVE 24V (INCLUDES COIL)	3
3	73540527	COIL, 24V	6
4		PLUG, EXPANDER, 7MM	7
REV. INTITIAL RELEASE			

NOTE:

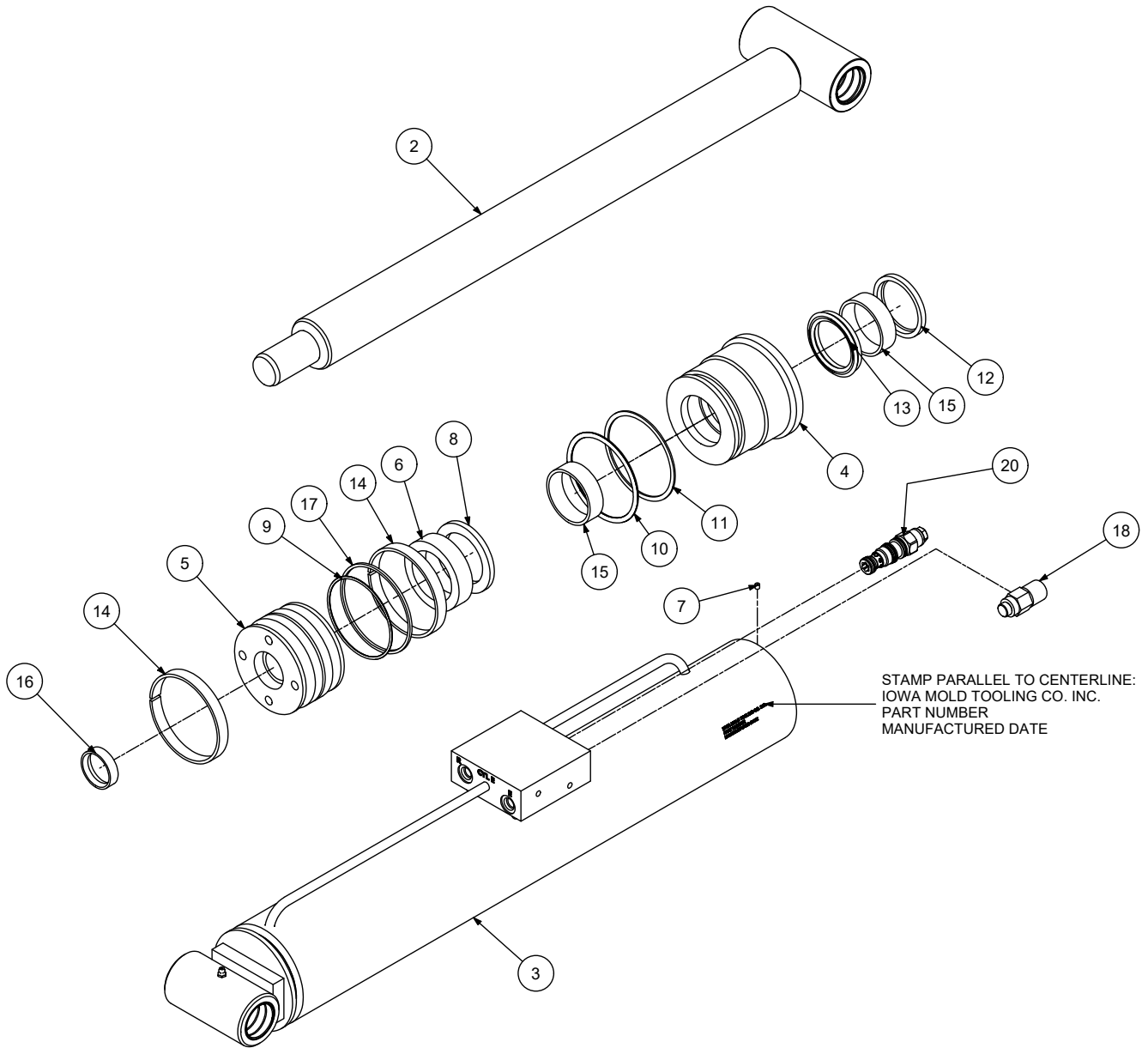
FOR PARTS NOT LISTED, PLEASE CONTACT IMT TECHNICAL SUPPORT:

IOWA MOLD TOOLING CO., INC.
BOX 189, GARNER, IA 50438-0189
TELEPHONE: 641-923-3711
TECHNICAL SUPPORT FAX: 641-923-2424

5005i - Cylinder, Lower (51721395)



5005I - CYLINDER, LOWER (51721395) CONTINUED



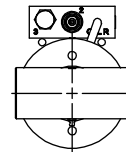
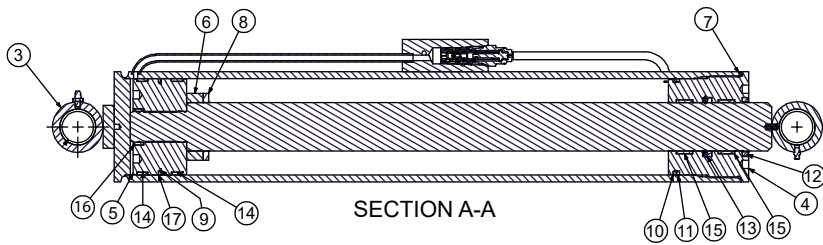
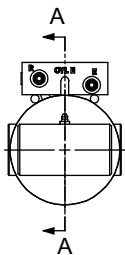
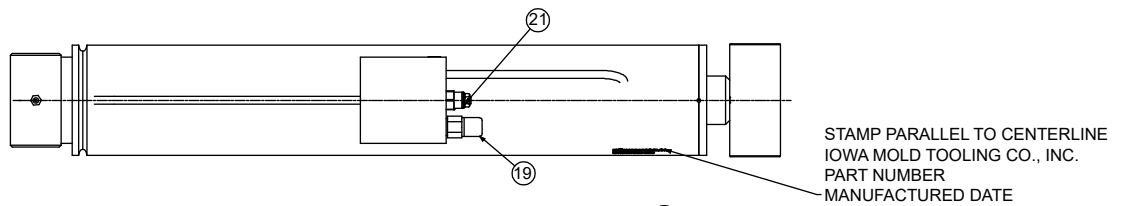
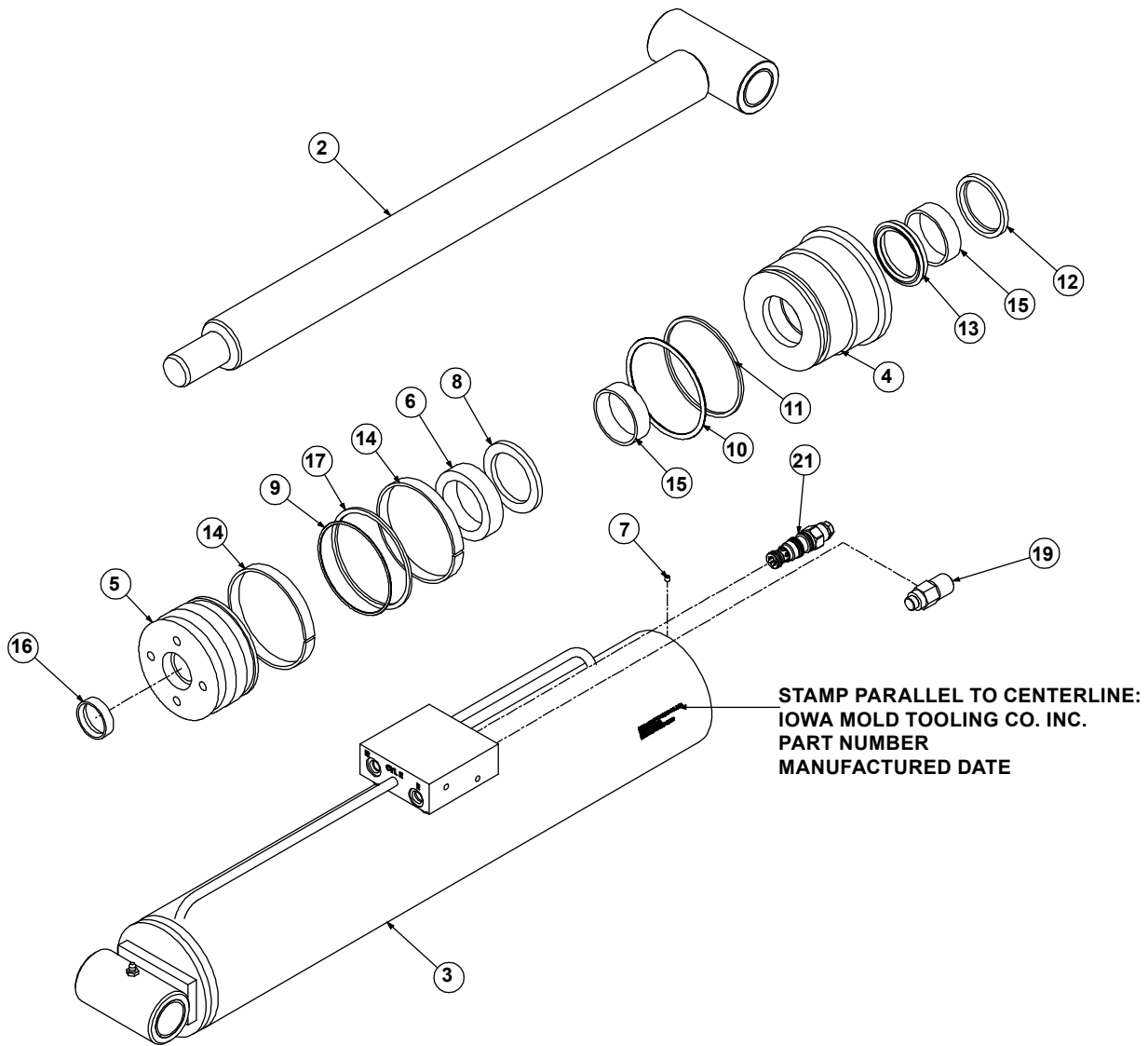
51721395 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1	9D161823	VALVE-CBAL SUN01 CBBC-LHN	20	1
2	52721397	CYL-4.0/2.2 21.43S 33.52CC C	20	1
3	52721398	SWITCH-PRESS 2750 PSI NC 42in LEAD	20	1
4	6HD40022	PISTON SEAL DYNAMIC 4.00"	20	1
5	6ID40143	LOCK RING-NYLON 1.43	20	1
6	60125920	WEAR RING-ROD 2.25 IDX0.75	20	1
7	60125699	WEAR RING - PISTON 4.00 O.D. X .50 W	20	1
8	60138275	U-CUP LOADED 2.25X2.75X.38 "B	1	1
9	7Q072153	ROD WIPER-TYPE D 2.25 ROD	1	1
10	7Q072342	BACK-UP RING 3.62 BORE 4 O.D. 0.07 THK	1	1
11	7Q10P342	O RING 3.62X 4.00X .19 70	1	1
12	7R14P022	O-RING - 3.5 X 3.69 0.09 70	1	1
13	7R546022	STOP TUBE-2.25 ROD X 0.25 LONG	1	1
14	7T2N4040	PIN - LOCK TUBE 0.19 OD X 0.065 WALL	1	2
15	7T2NX625	STOP TUBE - 2.25 ROD X .78 LONG	1	2
16	7T61N143	PISTON-4.00 BORE X 1.44 STGR (DUCT IRON)	1	1
17	7T66P040	HEAD-4.00 BORE X 2.25 ROD (DUCTILE IRON)	1	1
18	77041786	CASE ASM-4.00 BORE X 30.77 LG		1
19	51721395A	ROD ASM-2.25 DIA X 31.08 LG 1.44 S 1.50		1
20	73054999	SEAL KIT-IMT 4.00B 2.25R 1.44S	3	1
REV D				

51721395 CYLINDER DATA			
EXTEND:	12.57 SQ IN X 1.17 GAL	DRY WEIGHT:	93 LBS
RETRACT:	8.59 SQ IN X 0.80GAL	BRG. SPAN:	11.65 %
CASE:	Ø4.50 OD X Ø4.00B X 28.53LG	TEST PSI:	3000 PSI
ROD:	Ø2.25 X 31.20LG	OPER. PSI:	2500 PSI
STINGER:	Ø1.44 X 2.62LG	PISTON TORQUE:	710-740 PSI
		HEAD TORQUE:	400 FT-LB
CYL. STROKE:	21.43	CARTRIDGE TORQUE:	30-35 FT-LB
LOCKNUT TORQUE:	-	CAP SCR TORQUE:	-

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6006i - Cylinder, Lower (51721396)



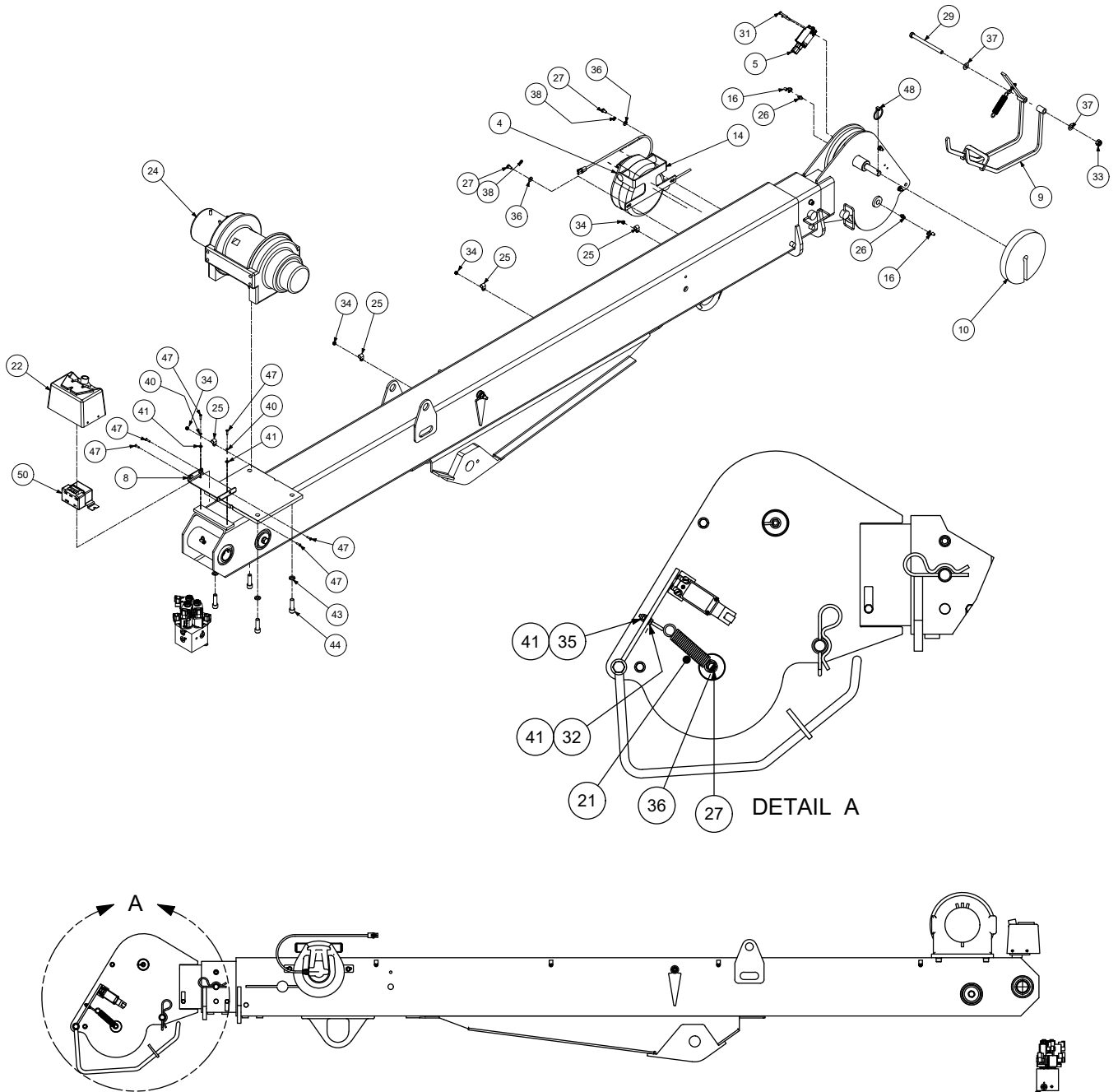
51721396 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	9D181823	SEAL KIT-4.50B 2.25R 1.44S	20	1
2.	52721397	ROD ASM-2.25 DIA X 31.08 LG 1.44 S 1.50	20	1
3.	52721399	CASE ASM- 4.50 BORE X 30.89 LG	20	1
4.	6HD45022	HEAD-4.50 BORE X 2.25 ROD (DUCTILE IRON)	20	1
5.	6ID45143	PISTON-4.50 BORE X 1.44 STGR (DUCT IRON)	20	1
6.	60125920	STOP TUBE - 2.25 ROD X .78 LONG	20	1
7.	60125699	PIN - LOCK TUBE 0.19 OD X 0.065 WALL	20	1
8.	60138275	STOP TUBE-2.25 ROD X 0.25 LONG	1	1
9.	7Q072155	O RING 4.00X 4.19X .09 70	1	1
10.	7Q072346	O RING 4.12X 4.50X .19 70	1	1
11.	7Q10P346	BACKUP RING-4.12 ID X 4.50 OD	1	1
12.	7R14P022	ROD WIPER-TYPE D 2.25 ROD	1	1
13.	7R546022	U-CUP LOADED 2.25X2.75X.38 "B	1	1
14.	7T2N4045	WEAR RING - PISTON 4.50 O.D. X .50 W	1	2
15.	7T2NX625	WEAR RING-ROD 2.25 IDX0.75	1	2
16.	7T61N143	LOCK RING-NYLON 1.43	1	1
17.	7T66P045	PISTON SEAL-DYNAMIC 4.50IN	1	1
18.	73054999	VALVE-CBAL SUN01 CBBC-LHN		1
19.	77041786	SWITCH-PRESS 2750 PSI NC 42IN LEAD		1
20.	51721396A	CYL-4.5/2.2 21.43S 33.52CC C		1
21.	73054999	VALVE-CBAL SUN01 CBBC-LHN	3	1
REV. D				

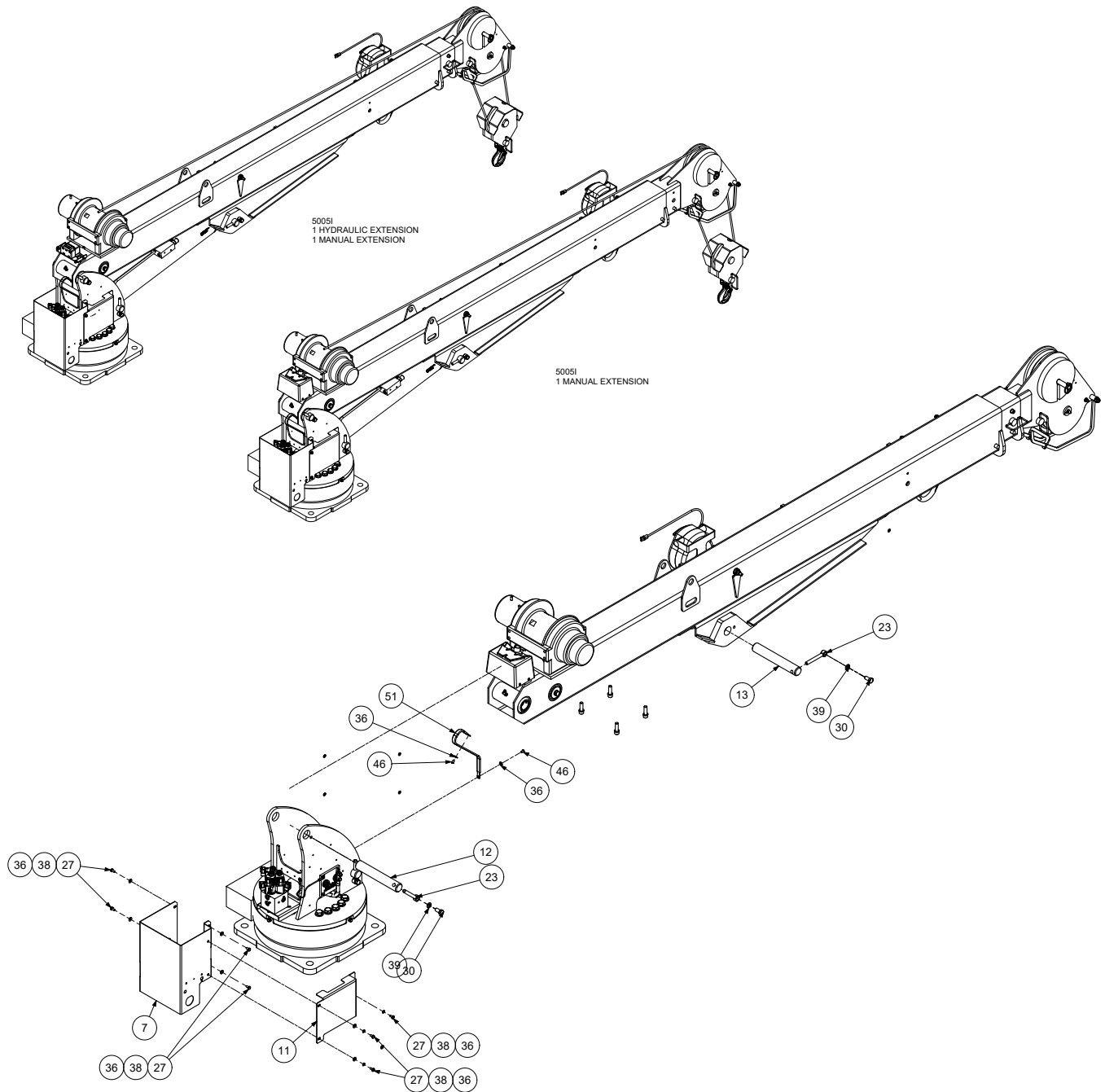
51721396 CYLINDER DATA

EXTEND	15.90 SQ IN X 1.48 GAL	DRY WEIGHT:	112.87 LBS
RETRACT	11.93 SQ IN X 1.11 GAL	BRG. SPAN:	11.7 %
CASE	Ø5.12 OD X Ø4.50B X 30.89LG	TEST PSI:	3000 PSI
ROD	Ø2.25 X 29.83LG	OPER. PSI:	2500 PSI
STINGER	Ø1.44 X 2.62LG	PISTON TORQUE:	710-740 FT-LB
		HEAD TORQUE:	450 FT-LB
CYL. STROKE	21.43	CARTRIDGE TORQUE:	30-35 FT-LB
LOCKNUT TORQUE:	-	CAP SCR TORQUE	-

5005i-Crane & Winch Assembly (99904336)



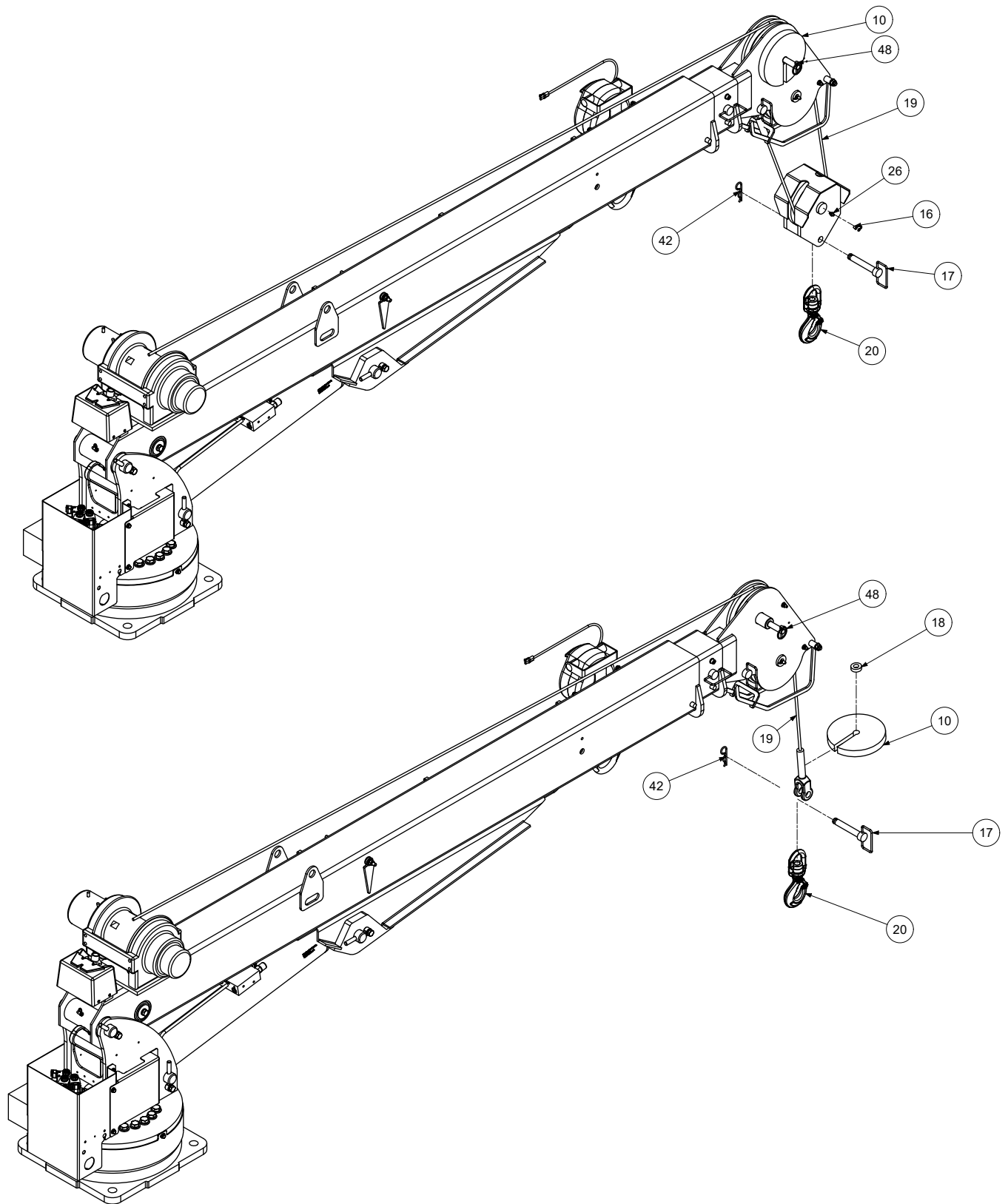
5005i-CRANE & WINCH ASSEMBLY (99904336) CONTINUED



NOTES:

1. USE ANTI-SEEZ ON PINS.
2. ALL ELECTRICAL GROUNDS MUST BE FREE OF PAINT, GREASE, AND OIL.
3. IF REQUIRED USE (72063036) MACHNY BUSHINGS BETWEEN MAST AND BOOM WHEN INSTALLING PIN, 52721425.

5005i-CRANE & WINCH ASSEMBLY (99904336) CONTINUED



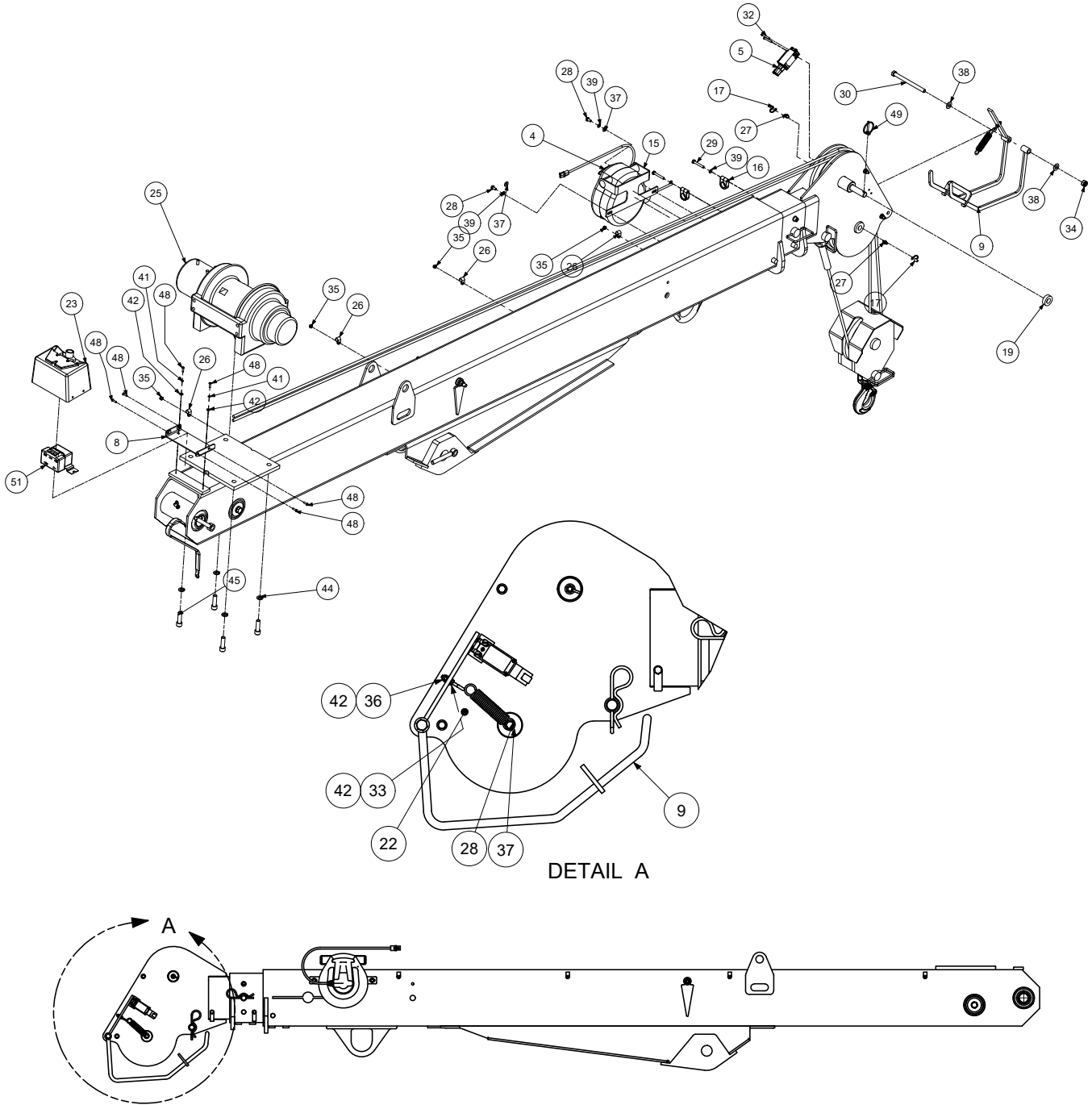
99904336 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	99904334	MAST ASM-5005I		REF
2.	99904335	BOOM ASM 5005I-6006I		REF
3.	51721424	KIT-HRDW CRANE & WINCH 6006I		1
4.	51727065	CORD REEL ASM - 10.5' - W/PACKARD CONNECTOR		1
5.	77041863	SWITCH-LIMIT DT04-4P CONN		1
6.	52717885	WLDMT- SNATCH BLOCK		1
7.	52722163	COVER-VALVE BANK 5005I/6006I		1
8.	52725217	WLDMT-WINCH CONTACTOR BRKT		1
9.	52725226	WLDMT-ATB TRIP MECHANISM		1
10.	60122263	PLATE-SINGLE SHEAVE 3820		1
11.	60134104	COVER-CONTACTOR (5005I-6006I)		1
12.	60141134	PIN-TYPE NN 1.50X 9.25		1
13.	60141135	PIN-TYPE NN 1.50X 9.75		1
14.	60144651	BRKT- CORD REEL MNT		1
15.	70034381	SUPPORT-GP STAUFF LN-4190-PA		2
16.	70034382	CAP-GREASE PRO20 GC-RED	3	3
17.	70144209	PIN- .75X 4.50 LG WS80-WS100		1
18.	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN		1
19.	70580228	WIRE ROPE ASM-GALV.31(6X19)X80FT XIPS		1
20.	70735100	HOOK-SWVL BBRG 3TON W/LATCH		1
21.	71413196	SPRING-.105WIRE 0.75OD 2.875 LG	3	1
22.	71413880	COVER W/O SOCKET		1
23.	71415015	KEEPER-PIN .50		2
24.	71570923	WINCH-DC3000 12VDC		1
25.	72034485	CLAMP-PLASTIC 1/4" CABLE		4
26.	72053508	ZERK-NPT .12	3	3
27.	72060000	CAP SCR .25-20X .50 HH GR5 Z	3	10
28.	72060007	CAP SCR .25-20X 1.75 HH GR5 Z	3	2
29.	72060075	CAP SCR .44-14X 5.50 HH GR5 Z	3	1
30.	72060091	CAP SCR .50-13X 1.00 HH GR5 Z	3	2
31.	72060639	SCR-MACH 10-24X 1.25 RDH	3	2
32.	72062093	NUT # 8-32 HEX ZINC	3	1
33.	72062105	NUT .44-14 HEX NYLOCK	3	1
34.	72062106	NUT 10-24 HEX NYLOCK	3	4
35.	72062207	NUT 8-32 HEX NYLOCK	3	1
36.	72063001	WASHER .25 FLAT	3	12
37.	72063004	WASHER .44 FLAT	3	2
38.	72063049	WASHER .25 LOCK	3	11
39.	72063053	WASHER .50 LOCK	3	2
40.	72063239	WASHER # 8 LOCK	3	2
41.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	3	4
42.	72066144	HAIR PIN .16 DIA .63-1.00 SHAFT (PART OF 70144209)	13	1

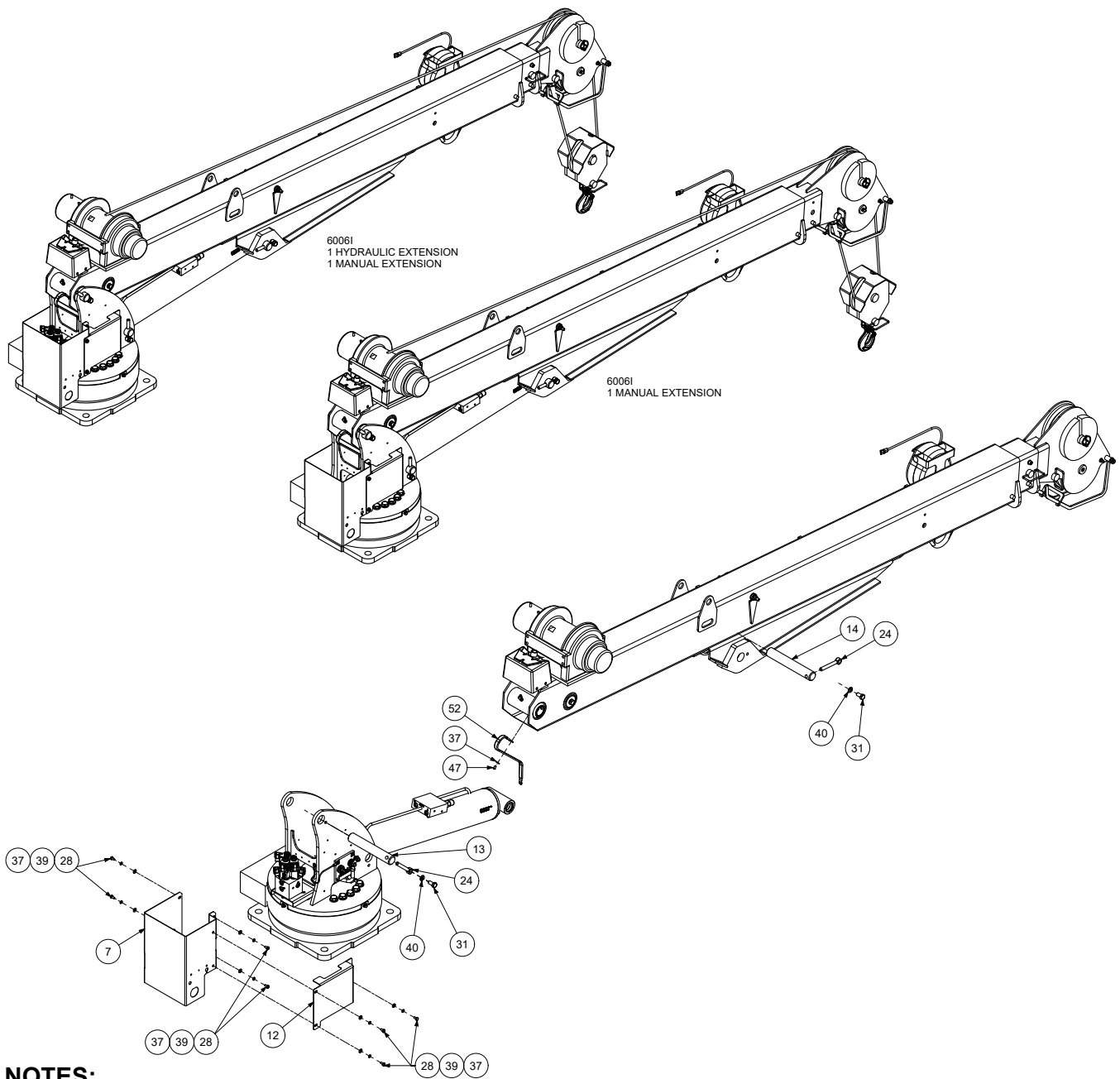
43.	72601798	WASHER-LOCK 12MM	3	4
44.	72601935	CAP SCR M12-1.75X 40 SH PLAIN	3	4
45.	72601938	BOLT-EYE # 8-32X 1.125	3	1
46.	72601941	SCR-MACH .25-20X .38 BTNHD ZC	3	2
47.	72602011	SCR-MACH # 8-32X .62 BTNHD ZC	3	6
48.	72661543	PIN-QUICK 316-10QP		1
49.	77040051	TERM-SPRSPADE I #8 STUD 16-14	3	2
50.	77041936	CONTACTOR-WINCH 12V DC3000 (COMES WITH WINCH)	24	1
51.	77441282	GROUND STRAP- 12IN		1
REV. W				

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6006i-Crane & Winch Assembly (99904456)



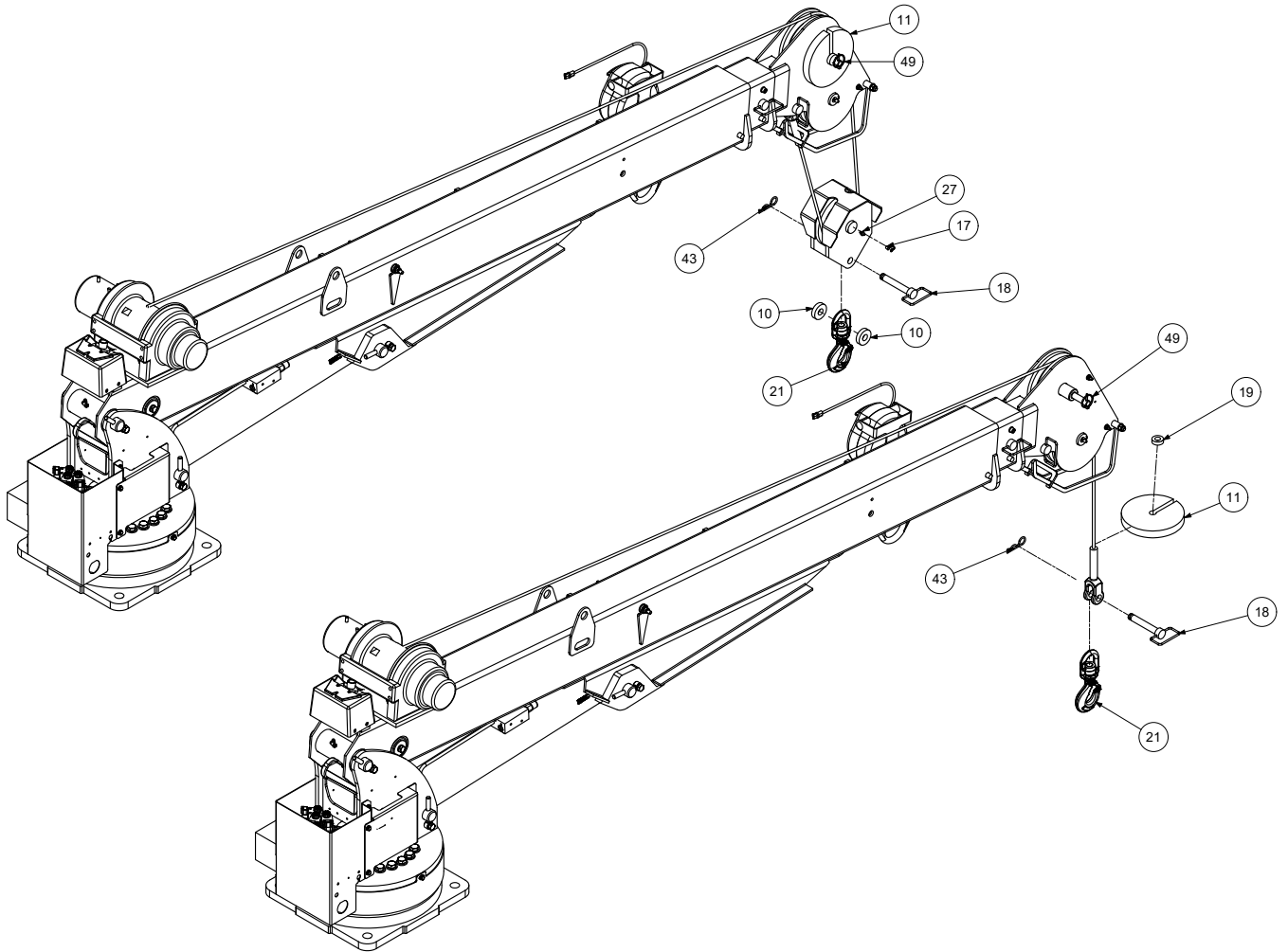
6006i-CRANE & WINCH ASSEMBLY (99904456) CONTINUED



NOTES:

1. USE ANTI-SEEZ ON PINS.
2. ALL ELECTRICAL GROUNDS MUST BE FREE OF PAINT, GREASE, AND OIL.
3. IF REQUIRED USE (72063036) MACHNY BUSHINGS BETWEEN MAST AND BOOM WHEN INSTALLING PIN, 52721425.

6006i-CRANE & WINCH ASSEMBLY (99904456) CONTINUED



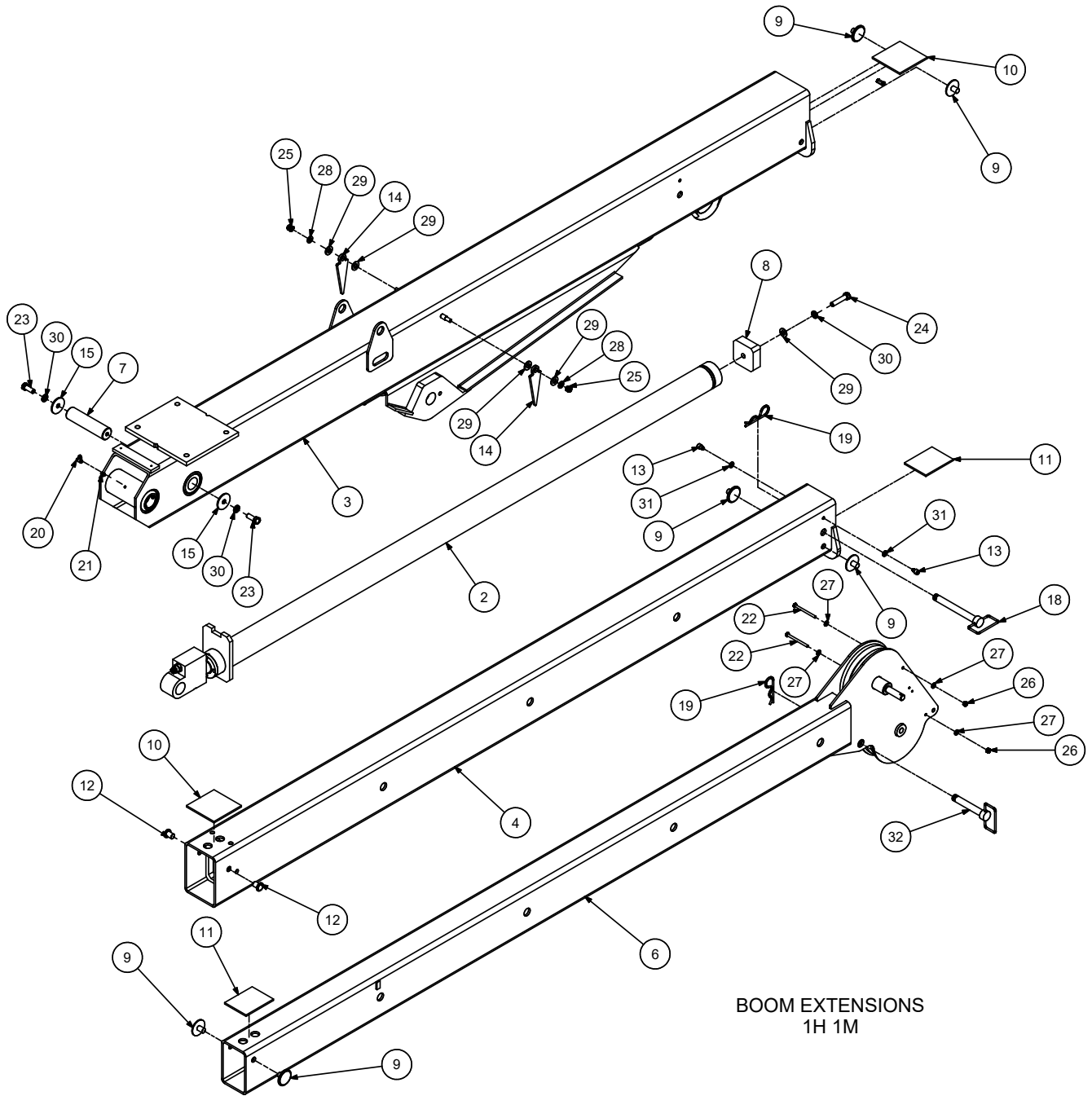
999064456 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	99904454	DWG-BASE & MAST ASM 6006I		REF
2.	99904335	BOOM ASM 5005I-6006I		REF
3.	51721424	KIT-HRDW CRANE & WINCH 6006I		1
4.	51727065	CORD REEL ASM - 10.5' - W/PACKARD CONNECTOR		1
5.	77041863	SWITCH-LIMIT DT04-4P CONN		1
6.	52717885	WLDMT- SNATCH BLOCK		1
7.	52722163	COVER-VALVE BANK 5005I/6006I		1
8.	52725217	WLDMT-WINCH CONTACTOR BRKT		1
9.	52725226	WLDMT-ATB TRIP MECHANISM		1
10.	60030327	SPACER- SNATCH BLOCK		2
11.	60122263	PLATE-SINGLE SHEAVE 3820		1
12.	60134104	COVER-CONTACTOR (5005I-6006I)		1
13.	60141134	PIN-TYPE NN 1.50X 9.25		1
14.	60141135	PIN-TYPE NN 1.50X 9.75		1
15.	60144651	BRKT- CORD REEL MNT		1
16.	70034381	SUPPORT-GP STAUFF LN-4190-PA		2
17.	70034382	CAP-GREASE PRO20 GC-RED	3	3
18.	70144209	PIN- .75X 4.50 LG WS80-WS100		1
19.	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN		1
20.	70580228	WIRE ROPE ASM-GALV.31(6X19)X80FT XIPS		1
21.	70735100	HOOK-SWVL BBRG 3TON W/LATCH		1
22.	71413196	SPRING-.105WIRE 0.75OD 2.875 LG	3	1
23.	71413880	COVER W/O SOCKET		1
24.	71415015	KEEPER-PIN .50		2
25.	71570923	WINCH-DC3000 12VDC		1
26.	72034485	CLAMP-PLASTIC 1/4" CABLE		4
27.	72053508	ZERK-NPT .12	3	3
28.	72060000	CAP SCR .25-20X .50 HH GR5 Z	3	10
29.	72060007	CAP SCR .25-20X 1.75 HH GR5 Z	3	2
30.	72060075	CAP SCR .44-14X 5.50 HH GR5 Z	3	1
31.	72060091	CAP SCR .50-13X 1.00 HH GR5 Z	3	2
32.	72060639	SCR-MACH 10-24X 1.25 RDH	3	2
33.	72062093	NUT # 8-32 HEX ZINC	3	1
34.	72062105	NUT .44-14 HEX NYLOCK	3	1
35.	72062106	NUT 10-24 HEX NYLOCK	3	4
36.	72062207	NUT 8-32 HEX NYLOCK	3	1
37.	72063001	WASHER .25 FLAT	3	14
38.	72063004	WASHER .44 FLAT	3	2
39.	72063049	WASHER .25 LOCK	3	11
40.	72063053	WASHER .50 LOCK	3	2
41.	72063239	WASHER # 8 LOCK	3	2
42.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	3	4

43.	72066144	HAIR PIN .16 DIA .63-1.00 SHAFT (PART OF 70144209)	13	1
44.	72601798	WASHER-LOCK 12MM	3	4
45.	72601935	CAP SCR M12-1.75X 40 SH ZC	3	4
46.	72601938	BOLT-EYE # 8-32X 1.125	3	1
47.	72601941	SCR-MACH .25-20X .38 BTNHD ZC	3	1
48.	72602011	SCR-MACH # 8-32X .62 BTNHD ZC	3	6
49.	72661543	PIN-QUICK 316-10QP		1
50.	77040051	TERM-SPRSPADE I #8 STUD 16-14	3	2
51.	77041936	CONTACTOR-WINCH 12V DC3000 (COMES WITH WINCH)	25	1
52.	77441282	GROUND STRAP- 12IN		1
REV. W				

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5005i & 6006i Boom Assembly (99904335)

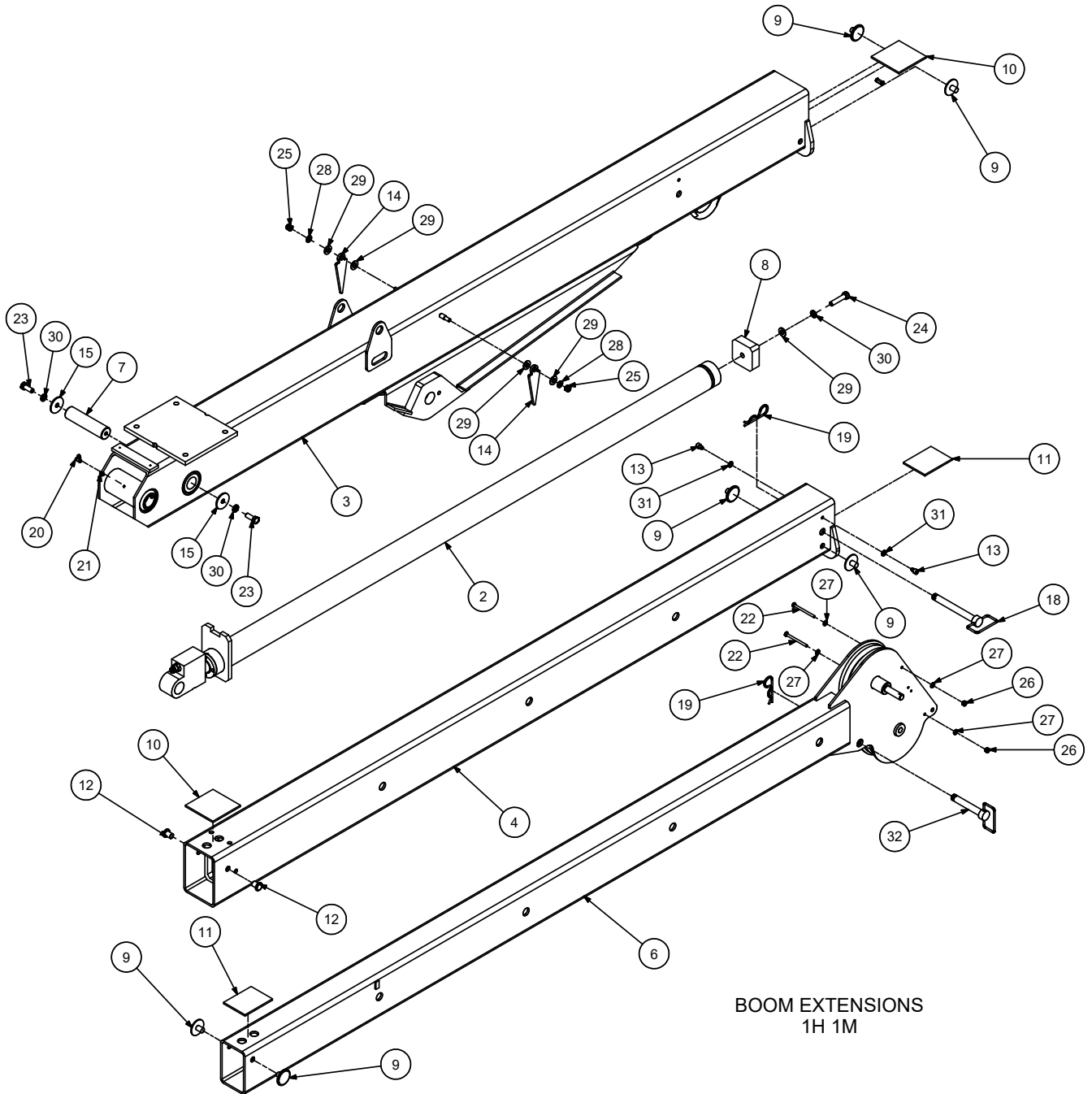


BOOM EXTENSIONS
1H 1M

99904335 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	51721423	KIT-HRDW BOOM 5005I		1
2.	51721386	CYL-2.5/1.5 72.00S 7.37CC C		1
3.	52725221	LOWER BOOM WLDMNT - 5005I-6006I		1
4.	52721359	WLDMT- EXTENSION 1ST STAGE 5005I		1
5.	52728043	WLDMT- 1ST STAGE MANUAL EXTENSION 5005I		1
6.	52728042	WLDMT- 2ND STAGE EXTENSION 5005I		1
7.	60133939	PIN-TYPE M 1.50X 6.00		1
8.	60030380	WEAR PAD- EXT CYLINDER 6006I		1
9.	60030339	WEAR PAD-RND 0.19X 2.00X .60X .81		6
10.	60030340	WEAR PAD-RC 0.19X 4.50X 4.50		2
11.	60030341	WEAR PAD-RC 0.19X 4.50X 3.50		2
12.	60133062	WEAR PAD-RND 0.19X 1.00X .62X .81 STL		2
13.	60132302	STOP SCREW 3/8-24 X .50		2
14.	60105544	PLATE-ANGLE PLASTIC		2
15.	72063273	WASHER .52ID X 2.00OD X 10GA		2
18.	70144211	PIN- .75X 6.50LG WORKSAVER		1
19.	72066145	HAIR PIN .19 DIA .63-1.00 SHAFT (PART OF 70144211)	REF	2
20.	70034382	CAP-GREASE PRO20 GC-RED	1	1
21.	72053507	ZERK-STR THD .25-28	1	1
22.	72060013	CAP SCR .25-20X 3.25 HH GR5 Z	1	2
23.	72060092	CAP SCR .50-13X 1.25 HH GR5 Z	1	2
24.	72060928	CAP SCR .50-13X 2.25 HH GR5 Z	1	1
25.	72062103	NUT .38-16 HEX NYLOCK	1	2
26.	72062104	NUT .25-20 HEX NYLOCK	1	2
27.	72063001	WASHER .25 FLAT	1	4
28.	72063003	WASHER .38 FLAT	1	2
29.	72063005	WASHER .50 FLAT	1	5
30.	72063053	WASHER .50 LOCK	1	3
31.	72063051	WASHER .38 LOCK	1	2
32.	70144209	PIN- .75X 4.50 LG WS80-WS100		1
REV. F CN1111-1				

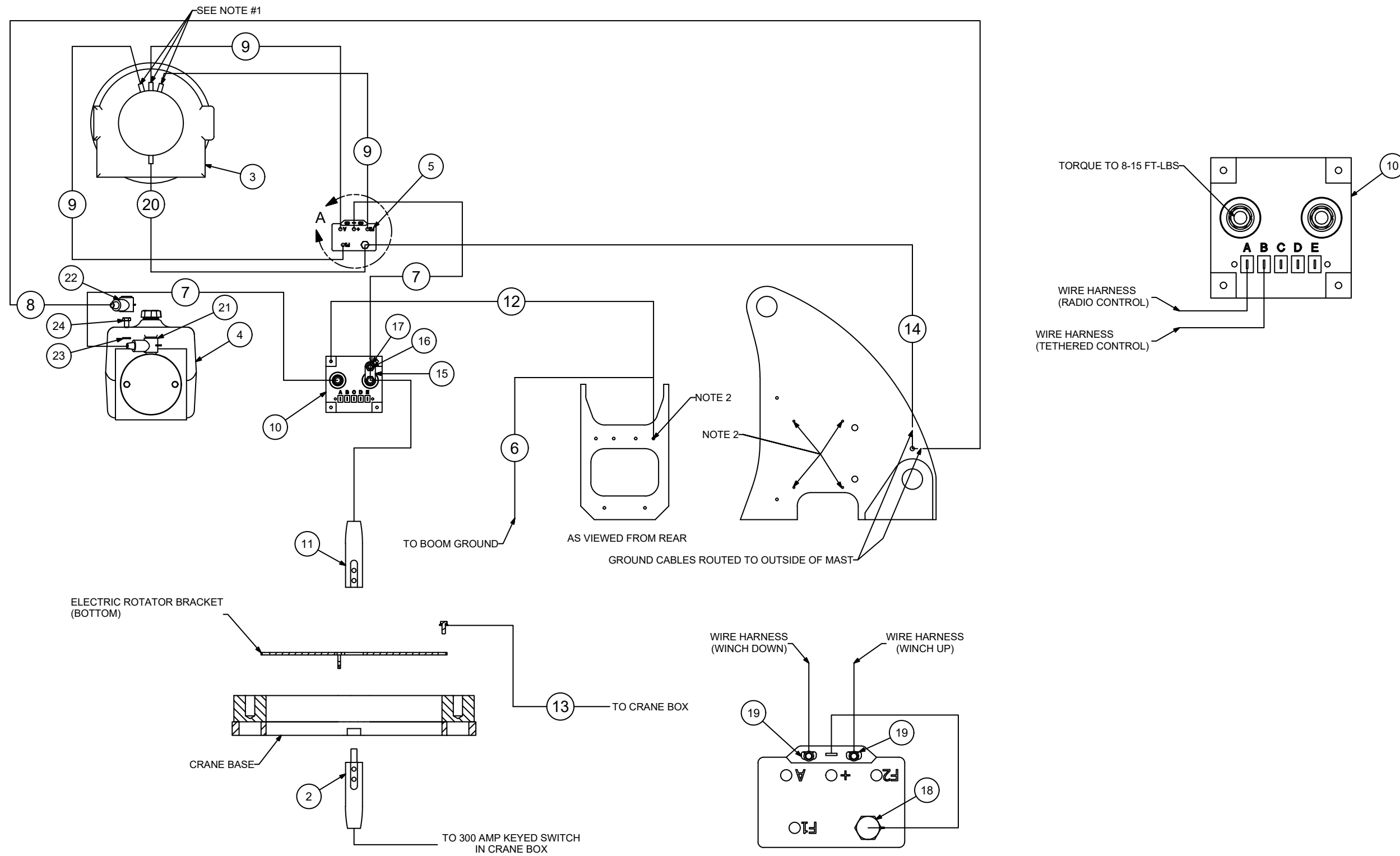
BOOM ASSEMBLY (99904335) CONTINUED



99904335-1 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	51721423	KIT-HRDW BOOM 5005I		1
2.	51721386	CYL-2.5/1.5 72.00S 7.37CC C		1
3.	52725221	LOWER BOOM WLDMNT - 5005I-6006I		1
4.	52721359	WLDMT- EXTENSION 1ST STAGE 5005I		1
5.	52728043	WLDMT- 1ST STAGE MANUAL EXTENSION 5005I		1
6.	52728042	WLDMT- 2ND STAGE EXTENSION 5005I		1
7.	60133939	PIN-TYPE M 1.50X 6.00		1
8.	60030380	WEAR PAD- EXT CYLINDER 6006I		1
9.	60030339	WEAR PAD-RND 0.19X 2.00X .60X .81		6
10.	60030340	WEAR PAD-RC 0.19X 4.50X 4.50		2
11.	60030341	WEAR PAD-RC 0.19X 4.50X 3.50		2
12.	60133062	WEAR PAD-RND 0.19X 1.00X .62X .81 STL		2
13.	60132302	STOP SCREW 3/8-24 X .50		2
14.	60105544	PLATE-ANGLE PLASTIC		2
15.	72063273	WASHER .52ID X 2.00OD X 10GA		2
18.	70144211	PIN- .75X 6.50LG WORKSAVER		1
19.	72066145	HAIR PIN .19 DIA .63-1.00 SHAFT (PART OF 70144211)	REF	2
20.	70034382	CAP-GREASE PRO20 GC-RED	1	1
21.	72053507	ZERK-STR THD .25-28	1	1
22.	72060013	CAP SCR .25-20X 3.25 HH GR5 Z	1	2
23.	72060092	CAP SCR .50-13X 1.25 HH GR5 Z	1	2
24.	72060928	CAP SCR .50-13X 2.25 HH GR5 Z	1	1
25.	72062103	NUT .38-16 HEX NYLOCK	1	2
26.	72062104	NUT .25-20 HEX NYLOCK	1	2
27.	72063001	WASHER .25 FLAT	1	4
28.	72063003	WASHER .38 FLAT	1	2
29.	72063005	WASHER .50 FLAT	1	5
30.	72063053	WASHER .50 LOCK	1	3
31.	72063051	WASHER .38 LOCK	1	2
32.	70144209	PIN- .75X 4.50 LG WS80-WS100		1
REV. F CN1111-1				

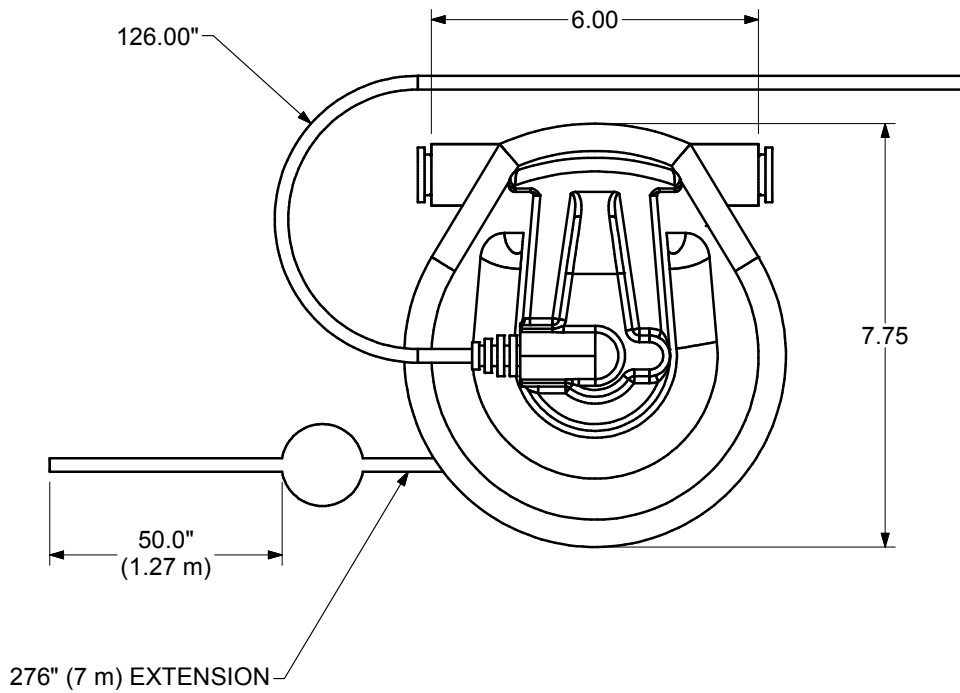
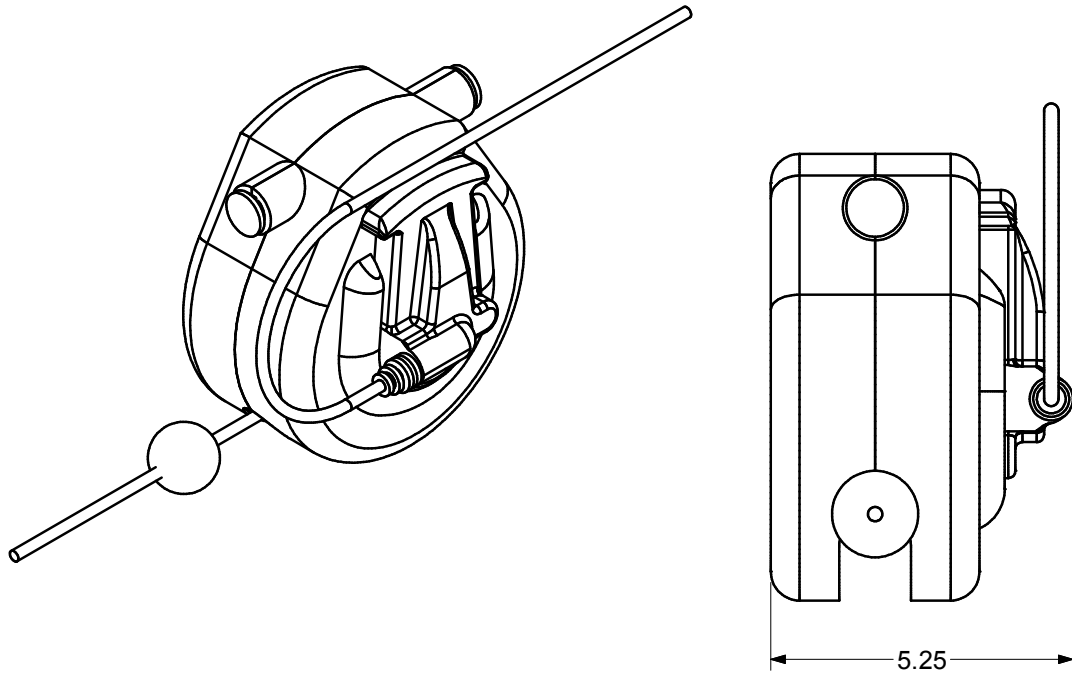
Electrical Installation (99904437)



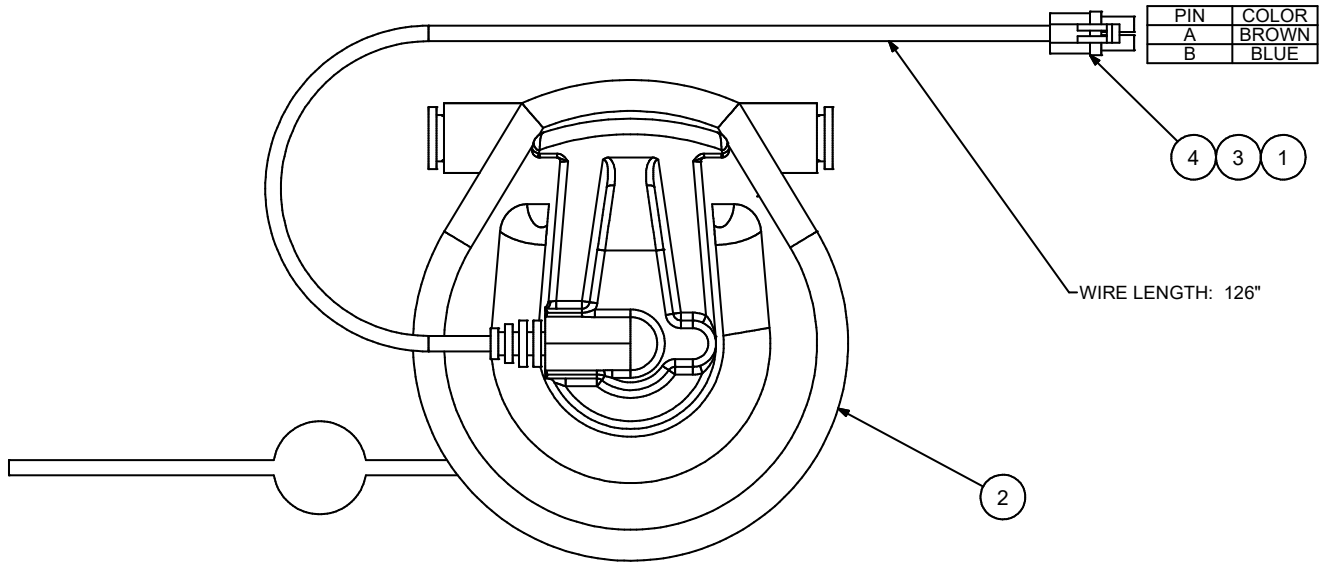
99904437 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91722221	KIT- 5005I ELECTRICAL INSTALLATION		1
2.	51721944	CABLE ASM- 1GA-3/8RNGX SWVL MX 60.00LG	1	1
3.	71570923	WINCH-DC3000 12VDC		REF
4.	73511282	POWER UNIT- 2.54CC 12VDC		1
5.	77041936	CONTACTOR-WINCH 12V DC3000		1
6.	77441282	GROUND STRAP- 12IN		1
7.	51721718	CABLE ASM- 2GA-5/16RNGX 3/8RNGX 25.00LG	1	2
8.	51721720	CABLE ASM- 2GA-5/16RNGX 3/8RNGX 10.00LG	1	1
9.	51721721	CABLE ASM-2GA-5/16RNGX 5/16RNGX 18.00LG RED	1	3
10.	77441336	SWITCH- 275A CONTACTOR (SSC42-275)		1
11.	51722218	CABLE ASM- 1GA-3/8RNGX SWVL FX 13.50LG	1	1
12.	77441312	CABLE ASM-10GA-#10RNGX 1/4RNGX 6.00LG	1	1
13.	77441332	CABLE ASM- 1GA-1/4RNGX 3/8RNGX 46.50LG	1	1
14.	51721717	CABLE ASM- 2GA-5/16RNGX 3/8RNGX 26.50LG	1	1
15.	60133635	CONTACT JUNCTION		REF
16.	72060044	CAP SCR .38-16X .75 HH GR5 Z		REF
17.	72062179	NUT .38-16 HEX CENTER LOCKING		REF
18.	72601278	CAP SCR M 8-1.25X 20 HHZ		REF
19.	77040186	TERM-FSLPON I .25TAB 16-14 GA		REF
20.	51722412	CABLE ASM-2A-5/16RNG X 5/16RNG X 18.00LG BLK	1	1
21.	77441302	TERM INSUL RED #8-2 GA WIRE		1
22.	77441303	TERM INSUL BLK #8-2 GA WIRE		1
23.	72063050	WASHER .31 LOCK		1
24.	72060021	CAP SCR .31-18X .50 HH GR5 Z		1
REV. H				

Cord Reel – 6.7m, Electric 2 – Wire (70735052)

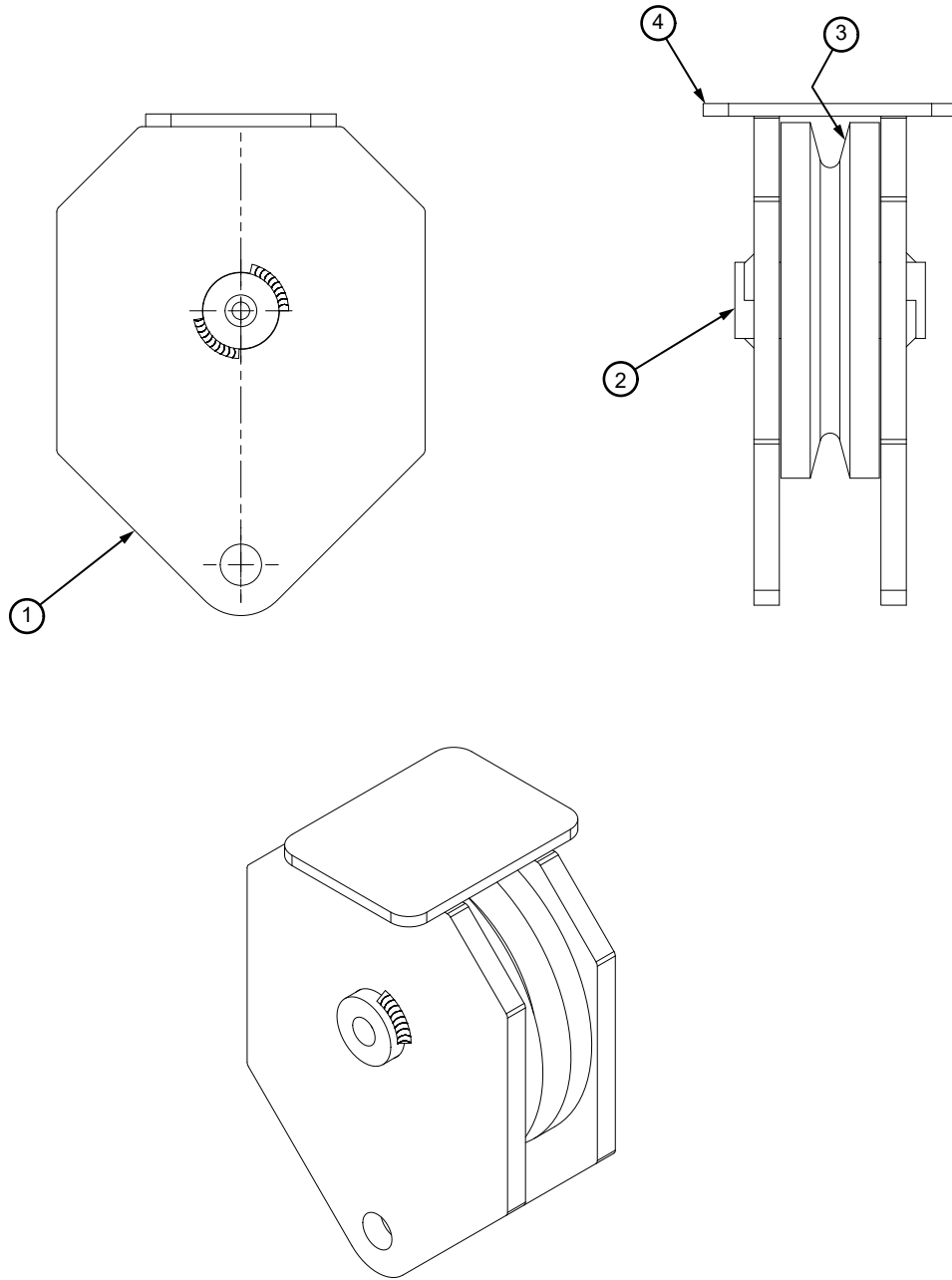


Cord Reel Assembly, 10'5" W/Packard Connector (51727065)



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	70394069	SEAL-CABLE-GRN 20-18 GA PACKARD	2
2.	70736052	CORD REEL ELECTRIC 2-WIRE	1
3.	77044550	TERMINAL - FEM 18-20 GA WEATRPK	2
4.	77044574	CONN-PKRD WEATHERPACK 2 CAV FEMALE/TOWER	1
REV. A			

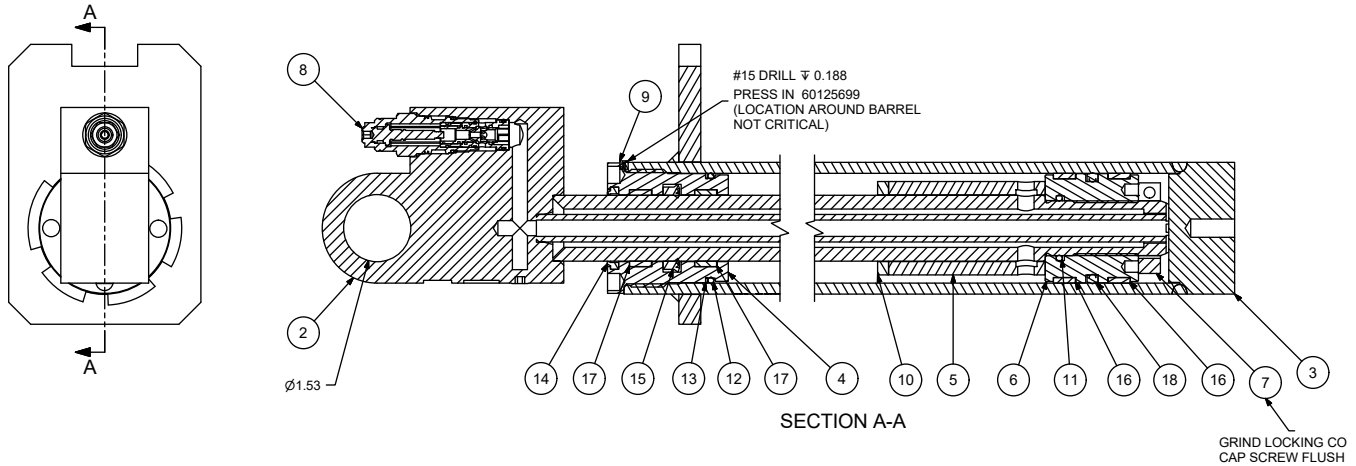
Snatch Block (52717885)



52717885 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	60124832	SHEAVE PLATE - 3203I	2
2.	60123159	SHEAVE- 5.5 NYLATRON GSM 0.75 BORE	1
3.	60030136	CLEVIS PIN .50 X 3.00	1
4.	60140870	PIN-TYPE T .75X 3.00	1
REV. C			

Cylinder, Extension (51721386)

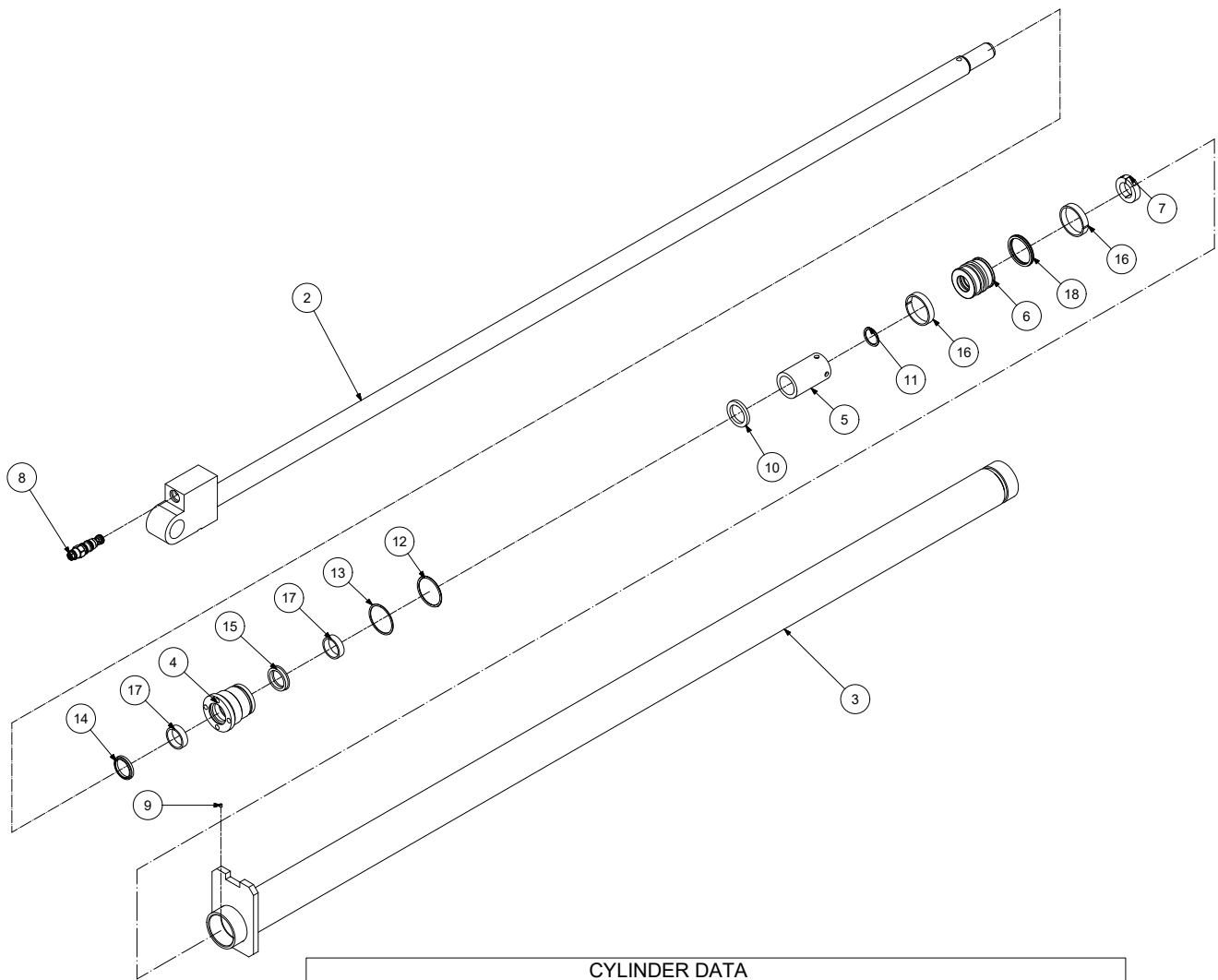


CYLINDER DATA			
EXTEND:	1.77 SQ IN X 1.53 GAL	DRY WEIGHT:	84.65 LBS
RETRACT:	1.17 SQ IN X 0.98 GAL	BRG. SPAN:	9.9%
CASE:	Ø3.00OD X Ø2.50B X 81.26LG	TEST PSI:	3000 PSI
ROD:	Ø1.50 X 82.69LG	OPER. PSI:	2500 PSI
STINGER:	Ø1.25 X 2.81LG	PISTON TORQUE:	250 FT-LB
		HEAD TORQUE:	500-530 FT-LB
CYL. STROKE:	72.00"	CARTRIDGE TORQUE:	30-35 FT-LB
LOCKNUT TORQUE:	12 FT-LB	CAP SCR TORQUE:	16 FT-LB

51721386 COMPLETE PARTS LIST

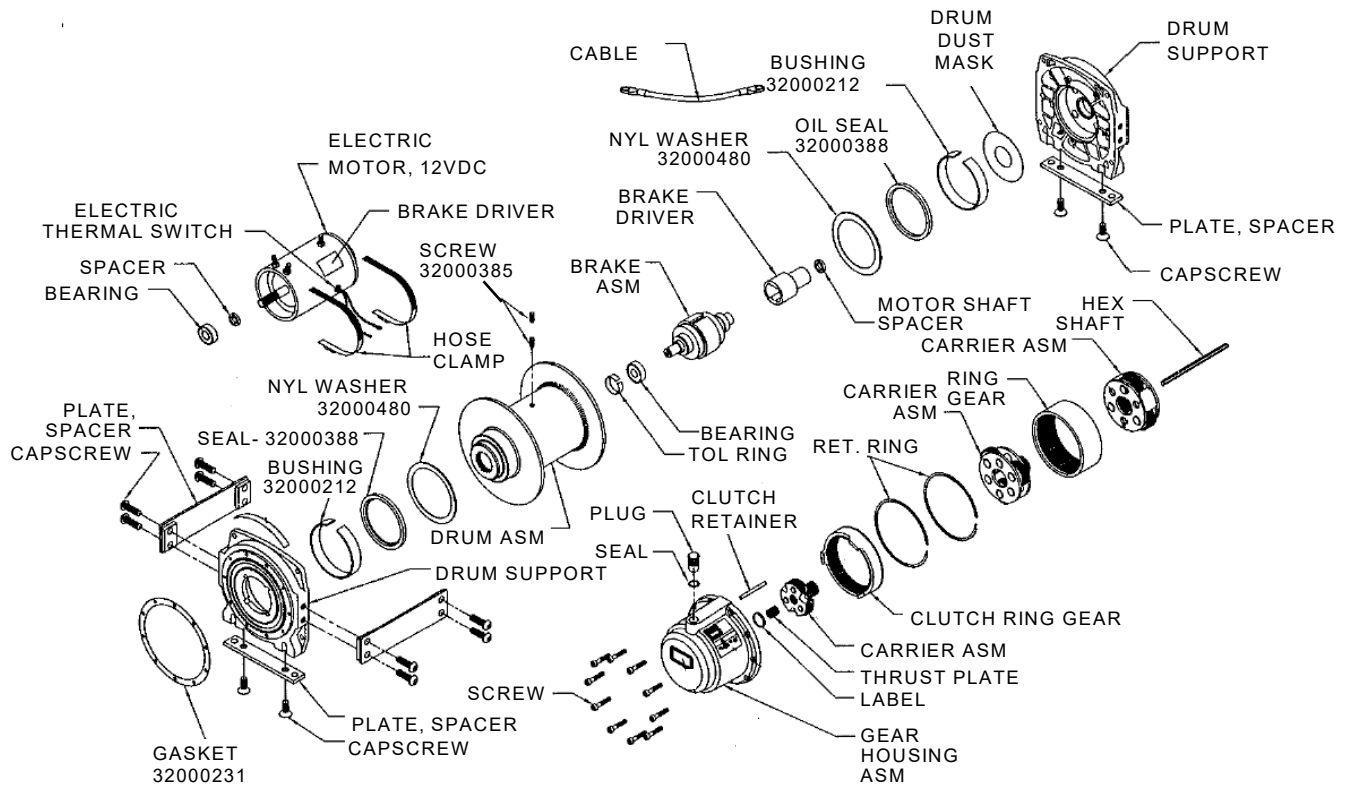
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY
1.	51744143	IMT SEAL KIT-2.50 B X 1.50 R 1.25 STGR		1
2.	52721387	ROD ASM-1.50 DIA X 86.63 LG 1.25 S		1
3.	52721388	CASE ASM-2.50 BORE X 82.51 LG		1
4.	6HD25015	HEAD-2.50 BORE X 1.50 ROD (DUCTILE IRON)		1
5.	60127864	STOP TUBE-1.50 ROD X 3.56LG 4 HOLE		1
6.	60127830	PISTON-2.50 BORE X 1.25 STGR		1
7.	72062323	COLLAR-LOCK 1.25-12 THREADED 1-PC		1
8.	73054999	VALVE-CBAL SUN01 CBBC-LHN		1
9.	60125699	PIN - LOCK TUBE 0.19 OD X 0.065 WALL	1	1
10.	60138272	STOP TUBE-1.75 ROD X 0.25 LONG	1	1
11.	7Q072218	O RING 1.25X 1.50X .12 70	1	1
12.	7Q072228	O RING 2.25X 2.50X .12 70	1	1
13.	7Q10P228	BACKUP RING-2.25 ID X 2.50 OD	1	1
14.	7R14P015	ROD WIPER TYPE D 1.50 ROD	1	1
15.	7R546015	U-CUP 1.50 ID X 2.00 OD	1	1
16.	7T2N4025	WEAR RING-PISTON 2.50 ODX .50W	1	2
17.	7T2NX417	WEAR RING-ROD 1.50 IDX0.50W	1	2
18.	7T66P250	PISTON SEAL-DYNAMIC 2.50IN CP	1	1
REV B				

51721386-1



CYLINDER DATA			
EXTEND:	1.77 SQ IN X 1.53 GAL	DRY WEIGHT:	84.65 LBS
RETRACT:	1.17 SQ IN X 0.98 GAL	BRG. SPAN:	9.9%
CASE:	Ø3.00OD X Ø2.50B X 81.26LG	TEST PSI:	3000 PSI
ROD:	Ø1.50 X 82.69LG	OPER. PSI:	2500 PSI
STINGER:	Ø1.25 X 2.81LG	PISTON TORQUE:	250 FT-LB
		HEAD TORQUE:	500-530 FT-LB
CYL. STROKE:	72.00"	CARTRIDGE TORQUE:	30-35 FT-LB
LOCKNUT TORQUE:	12 FT-LB	CAP SCR TORQUE:	16 FT-LB

Winch (71570923)



NOTE:

For 24V system use: 71570933.

WINCH REPLACEMENT PART NUMBERS:

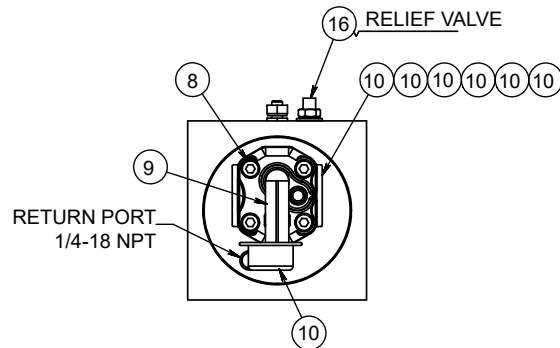
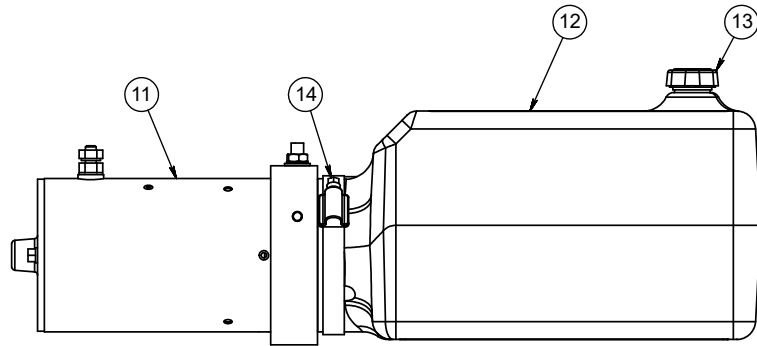
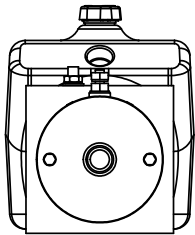
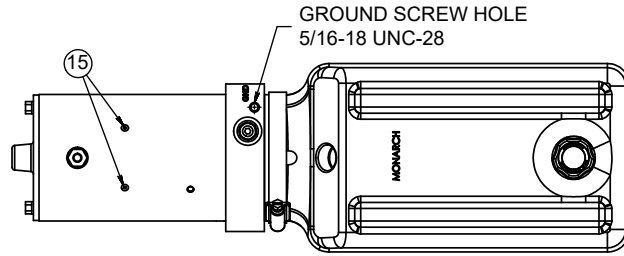
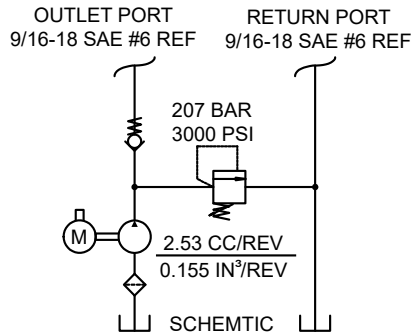
Brake - IMT P/N: 77051802.

Motor - IMT P/N: 77056667.

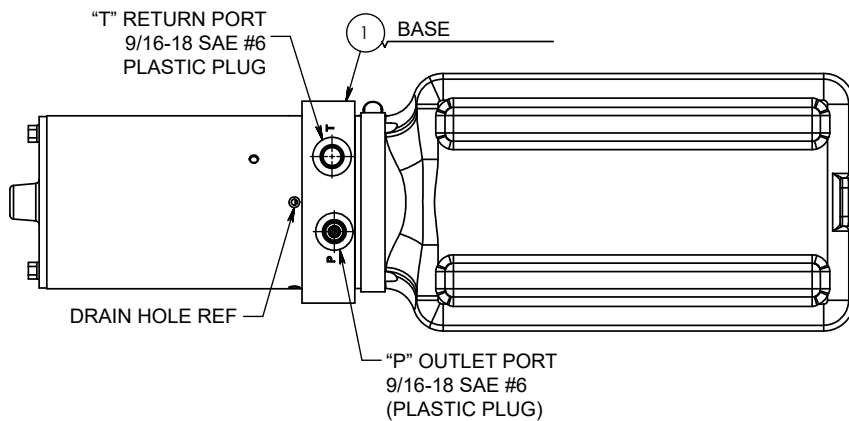
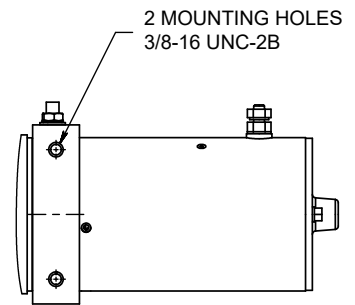
Contactor - IMT P/N: 73540402.

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Power Unit (73511282_{12V}) & (73511308_{24V})



VIEW SHOWN WITHOUT RESERVOIR



73511282 & 73511308 PARTS LIST

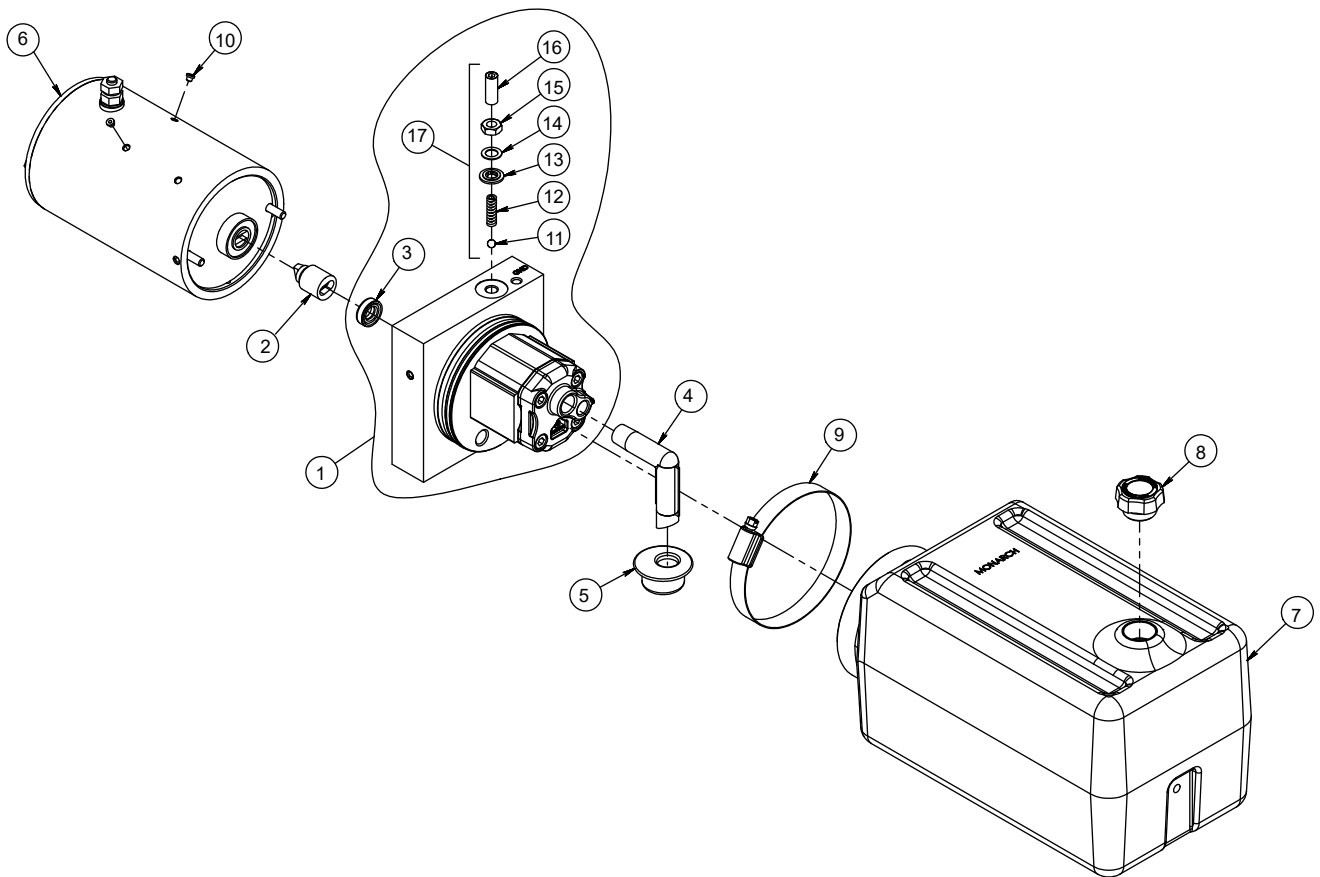
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.		BASE ASSY,M3504,AP100,SPEC WALL	1
2.	73511307	PUMP,AP100,2.5,PBP,NO COVER,CW	1
3.		COVER,REAR,AP100 309,.375 NPT	1
4.		O-RING,SHAPED,UP100&UP110	1
5.		PIN,DOWEL,5X7 MM,AP100	4
6.		O-RING,SHAPED,REAR COVER,AP100	1
7.		SHAFT,INTERMEDIATE,AP100,DC	1
8.		SCREW,SHC,M8X75,GRADE 8.8,ZINC	4
9.		TUBE,SUCT,90,H/MT,M-300,3/8NPT	1
10.	70734792	FILTER,SCREEN M-SERIES SUCT.	1
11.	77043065	MOTOR,DC,12V,4.5",1 TERM,LONG	1
12.	74399495	RESV,PLASTIC,6.7X6.7X13,H/MT	1
13.	70734788	PLUG,RESV,BREATHER-FILL,3/4-14	1
14.		CLAMP,HOSE,WORM GEAR,RSV,M-SER	1
15.		PLUG,CAP,NYLON,PUSH-IN,MOTOR	2
16.		VALVE ASSY,R/V,1001 PSI AND UP	1
REV. AC			

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**

73511282-1 & 73511308-1



73511282-1 & 73511308-1 PARTS LIST

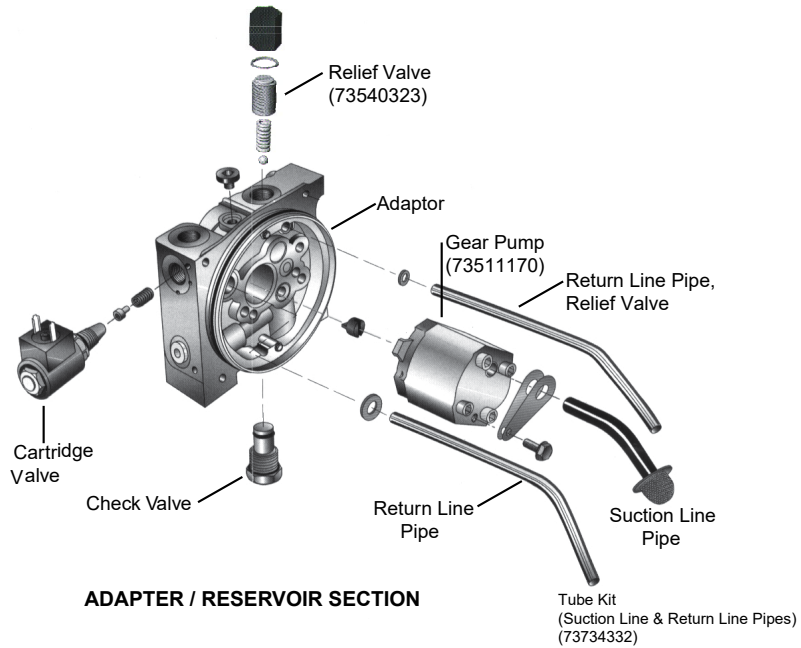
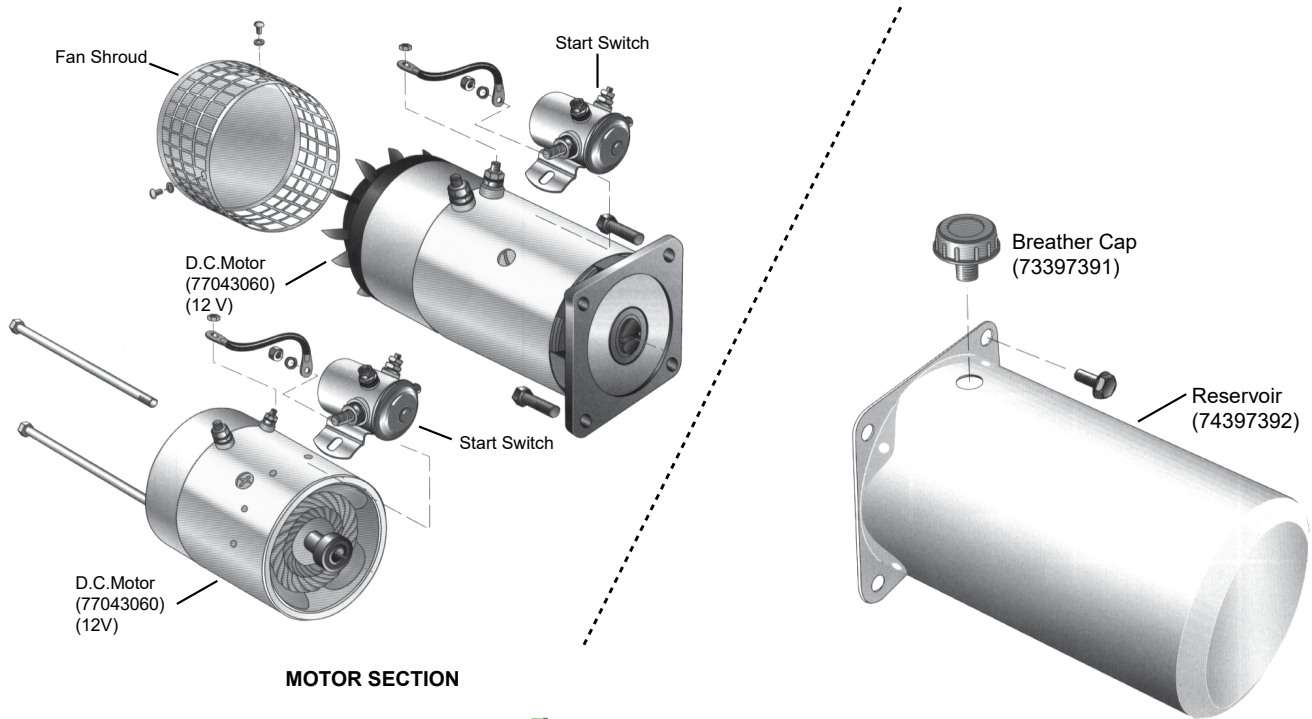
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.		P ASSY,W.BASE,M-3504,AP100,2.53	1
2.		SHAFT,INTERMEDIATE,AP100,DC	1
3.		SEAL,SHAFT,OIL,12 X 22 X 7,NBR	1
4.	73734791	TUBE,SUCT,90,H/MT,M-300,3/8NPT	1
5.	70734792	FILTER,SCREEN M-SERIES SUCT.	1
6.	77043065	MOTOR,DC,12V,4.5",1 TERM,LONG	1
7.	74399495	RESV,PLASTIC,6.7X6.7X13,H/MT	1
8.	70734788	PLUG,RESV,BREATHER-FILL,3/4-14	1
9.		CLAMP,HOSE,WORM GEAR,RSV,M-SER	1
10.		PLUG,CAP,NYLON,PUSH-IN,MOTOR	2
11.		BALL,1/4 DIA.	1
12.		SPRING,RELIEF M-SER.1001PSI&UP	1
13.		SEAL,WASH,SCREW,NUT,OIL	1
14.		WASHER,FLAT,25/64",(PLATED)	1
15.		NUT,HEX,JAM,3/8-16UNC-2BX9/16	1
16.		SCREW,SET,3/8-16 X 1,STUB PT	1
17.		VALVE ASSY,R/V,1001 PSI AND UP	1
REV. AC			

NOTE:

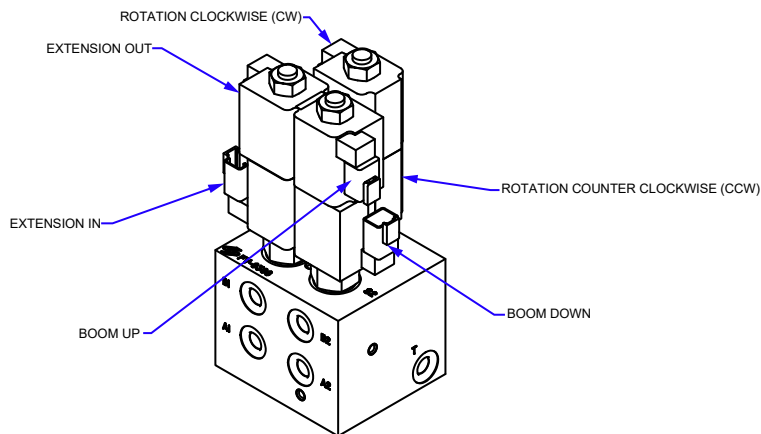
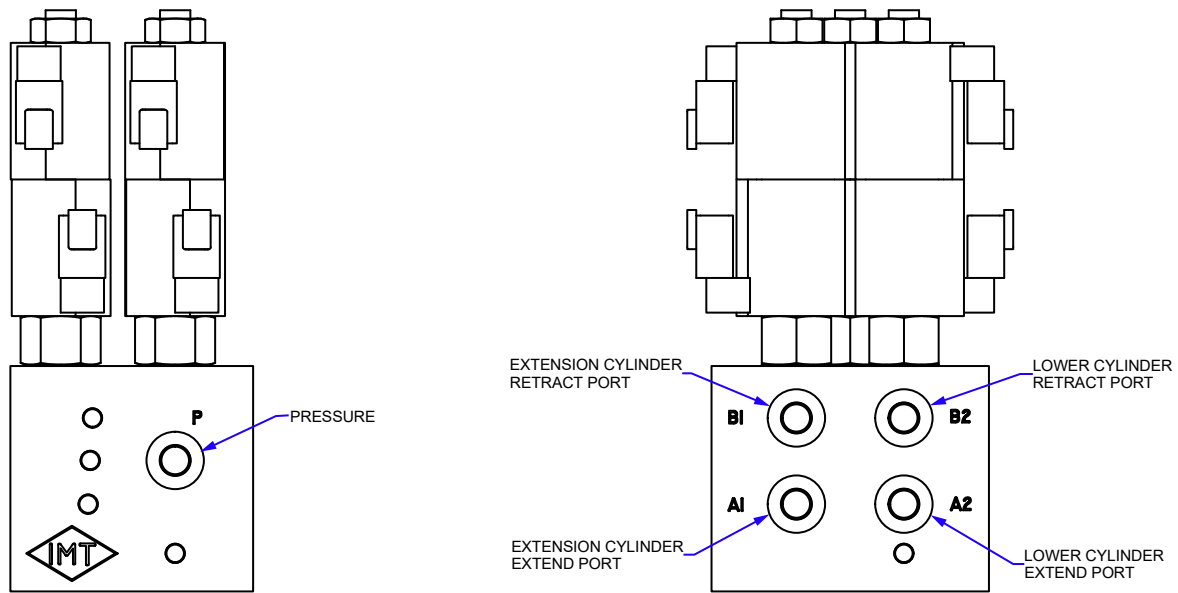
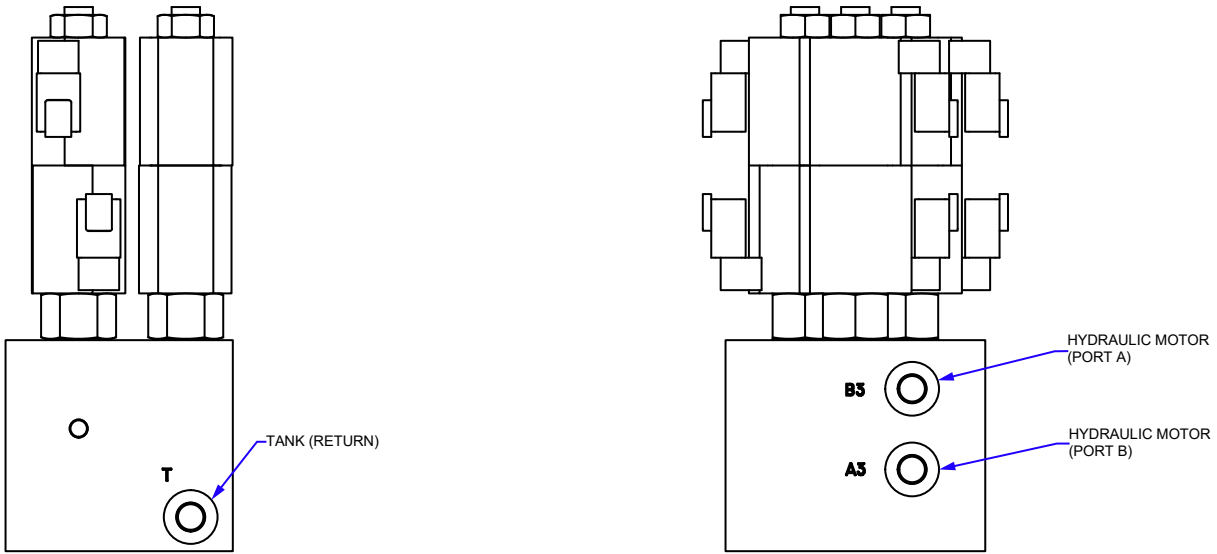
ITEMS SHOWN ARE COMMON SERVICE ITEMS, FOR PART NUMBERS NOT ASSIGNED CONTACT:

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

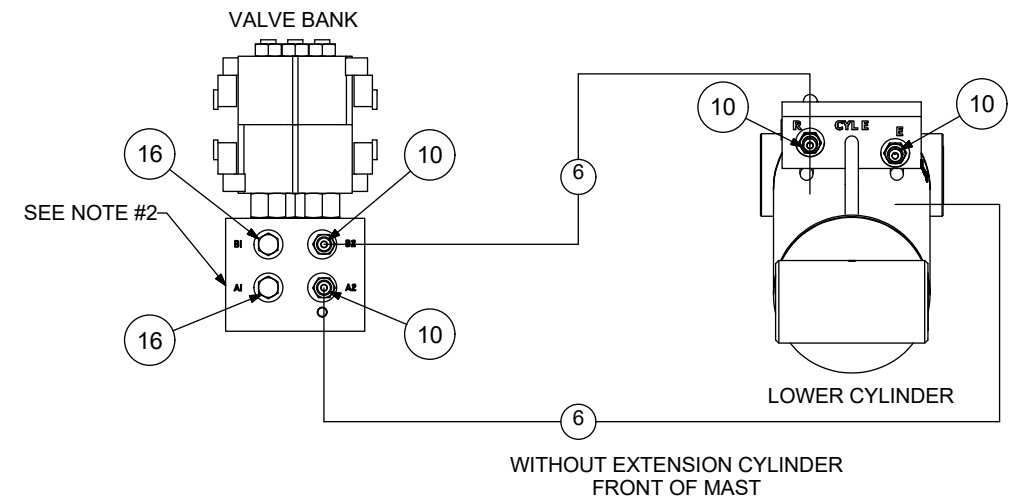
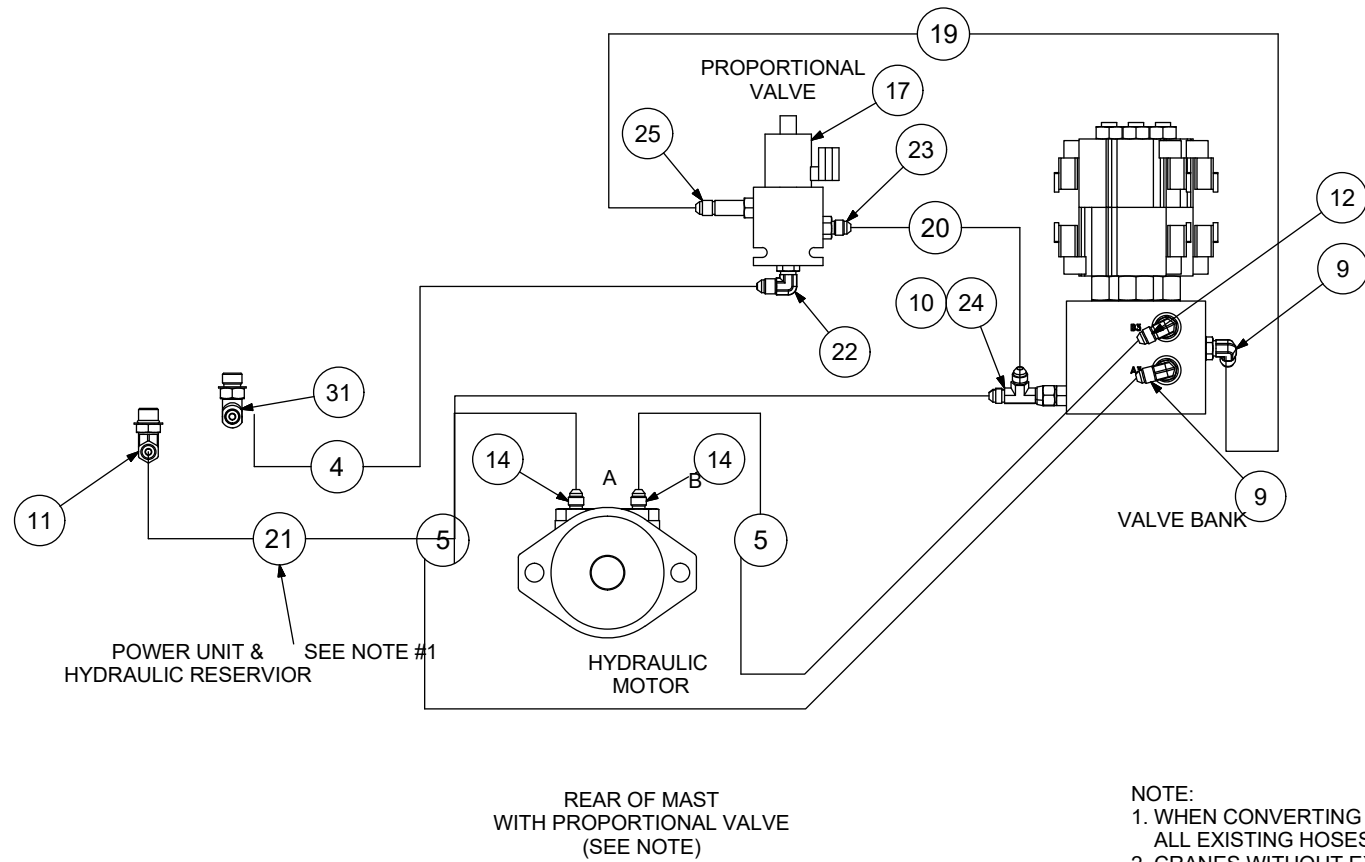
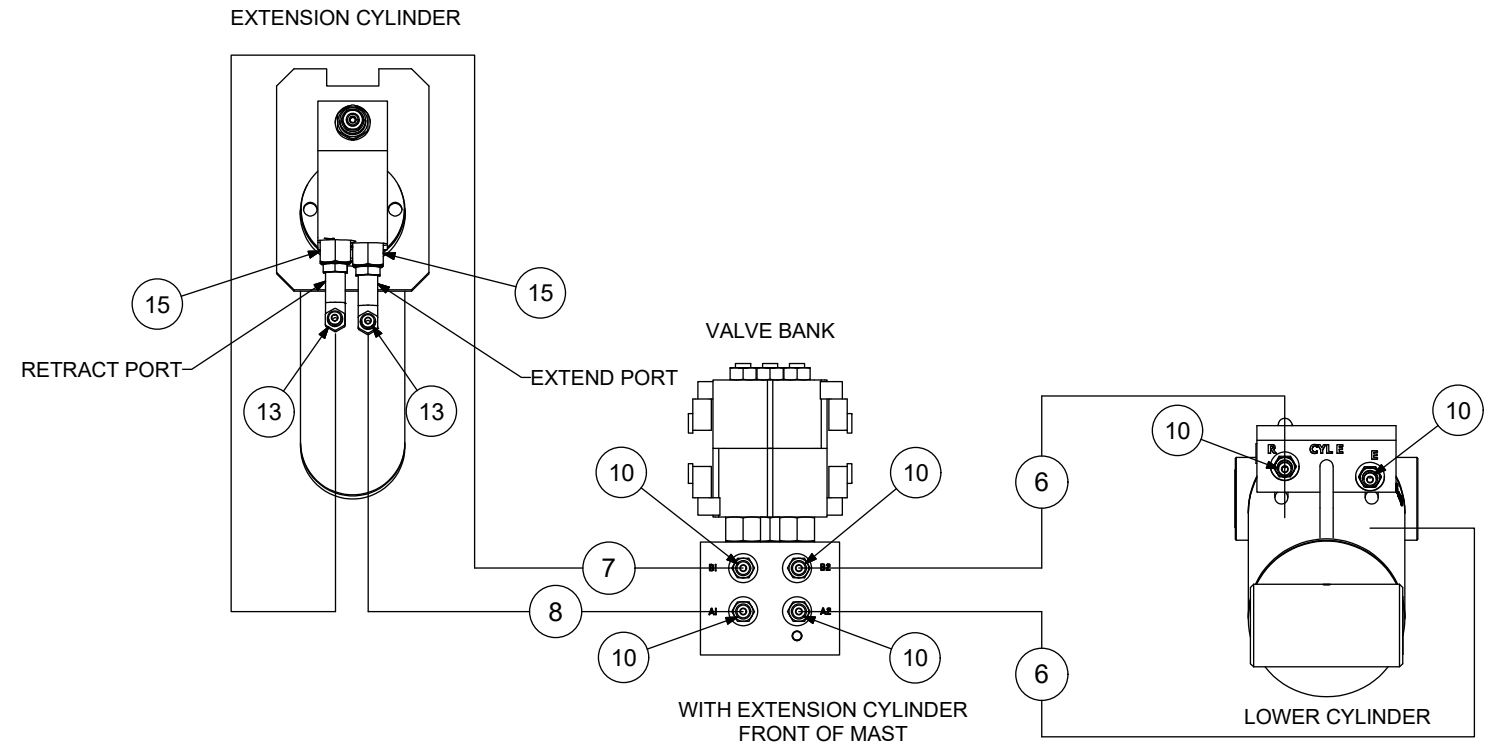
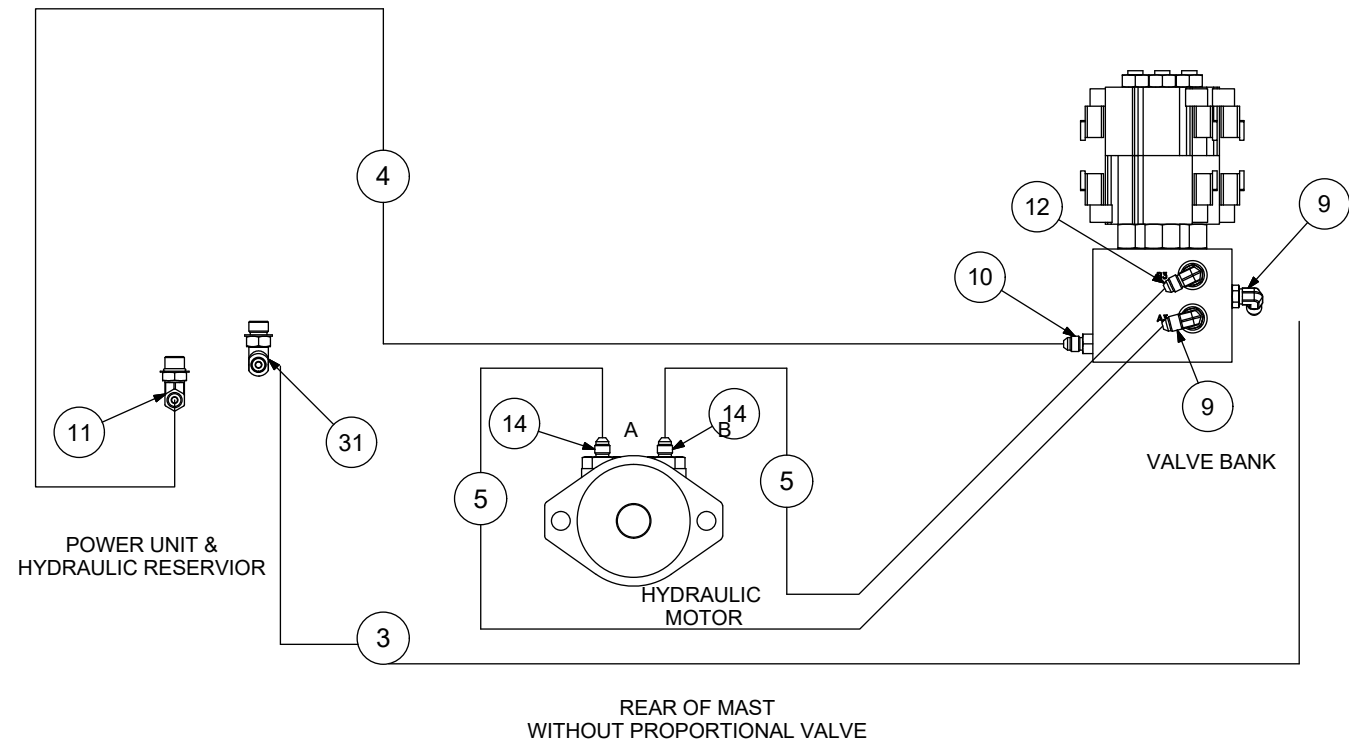
Power Unit (73511155)



Hydraulic Installation (99904438)



REAR OF MAST WITH PROPORTIONAL VALVE (99904438-1)



NOTE:
 1. WHEN CONVERTING TO PROPORTIONAL HYDRAULIC SYSTEM ALL EXISTING HOSES ARE USED EXCEPT 51397335 (ITEM #3).
 2. CRANES WITHOUT EXTENSION CYLINDER USE PLUGS (72532522) TO BLOCK HYDRAULIC PORTS B1 & A1 ON THE VALVE BLOCK.

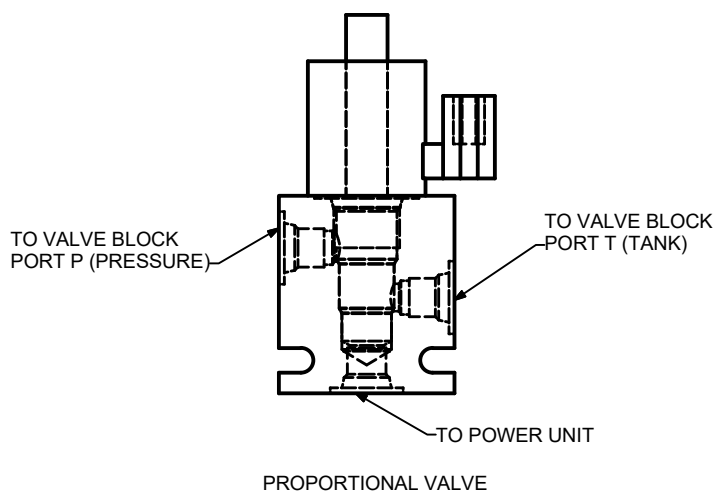
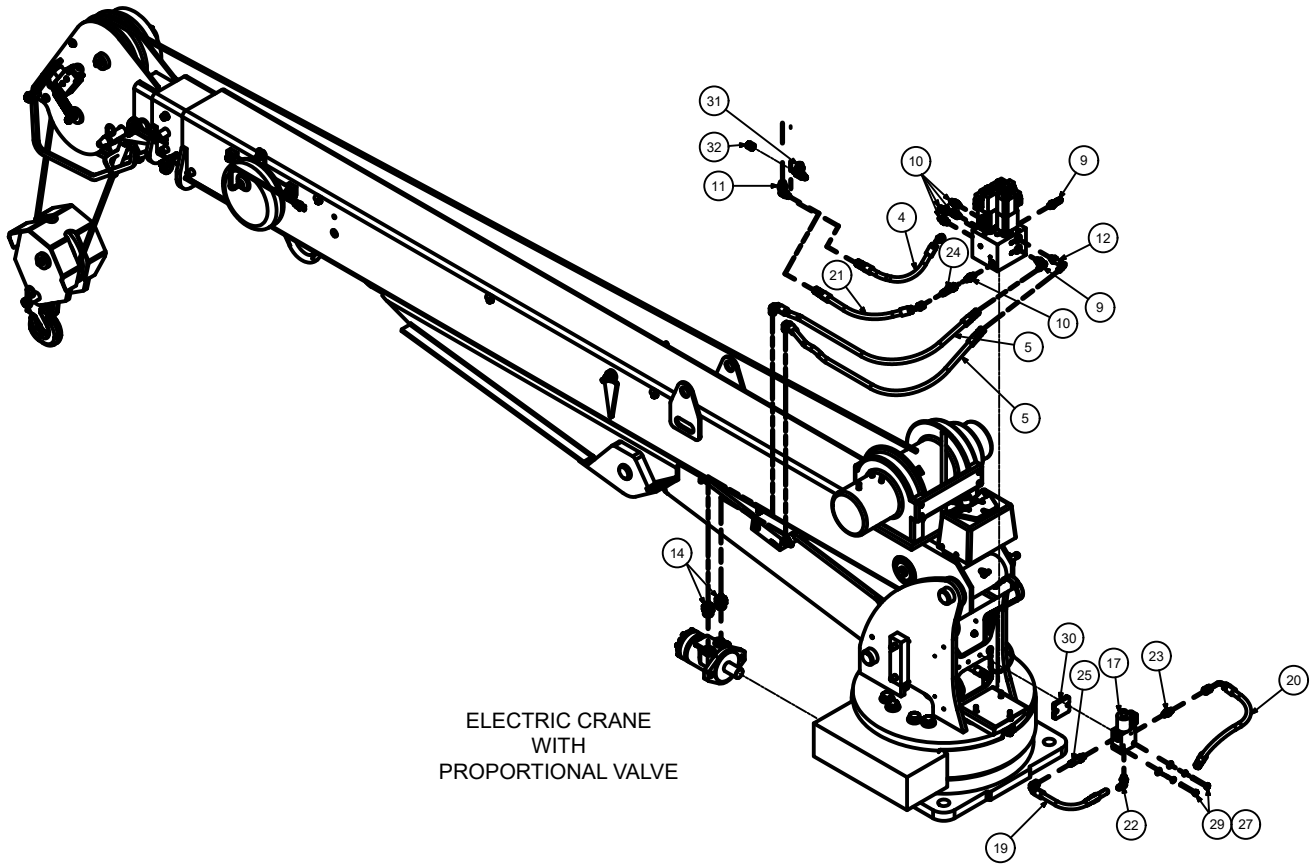
99904438-1 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	99904336	CRANE ASM 5005I		REF
2.	51721707	KIT-HYD 50051		1
3.	51399460	HOSE-FZ .25 X 15.50 (4-4) 100R17	2	1
4.	51397336	HOSE-FI .25 X 12.50 (4-4) 100R17	2	1
5.	51395874	HOSE-FJ .25 X 26.00 (4-4) 100R17	2	2
6.	51397480	HOSE-FF .25 X 27.50 (4-4) 100R17	2	2
7.	51396413	HOSE-FF .25 X 22.00 (4-4) 100R17	2	1
8.	51395422	HOSE-FF .25 X 24.00 (4-4) 100R17	2	1
9.	72053758	ELBOW-M STR/90/M JIC 4 4	2	2
10.	72532351	ADPTR-M STR/M JIC 4 4	2	7
11.	72532699	ELBOW-M STR/90/M JIC 6 4	2	1
12.	72533567	ELBOW-M STR/90/M JIC XLG 4 4	2	1
13.	72534567	ELBOW-M STR/90/M JIC XLG 6 4	2	2
14.	72533589	ADPTR-M STR/M JIC 10 4	2	2
15.	72533052	ADPTR-M STR/F STR 8 6	2	2
16.	72532522	PLUG-STR HEX HD STL .44		2
17.	73540325	VALVE-PROP FLOW CNTRL 12V ELEC CRANE		1
18.	91721626	KIT-HYD 50051 PROP	18	1
19.	51395663	HOSE-FJ .25 X 14.00 (4-4) 100R17	18	1
20.	51397434	HOSE-FZ .25 X 16.00 (4-4) 100R17	18	1
21.	51397452	HOSE-FI .25 X 11.50 (4-4) 100R17	18	1
22.	72053758	ELBOW-M STR/90/M JIC 4 4	18	1
23.	72532351	ADPTR-M STR/M JIC 4 4	18	1
24.	72532981	TEE-SWVL NUT RUN JIC 4	18	1
25.	72534477	ADPTR-M STR/M JIC 4 4 XLG	18	1
31.	72534714	TEE-STL JIC/STR/JIC 4 6 4 BRANCH	2	1
REV J				

NOTE:

1. WHEN CONVERTING TO PROPORTIONAL HYDRAULIC SYSTEM ALL EXISTING HOSES ARE USED EXCEPT 51397335 (ITEM #3).
2. CRANES WITHOUT EXTENSION CYLINDER USE PLUGS (72532522) TO BLOCK HYDRAULIC PORTS B1 & A1 ON THE VALVE BLOCK.

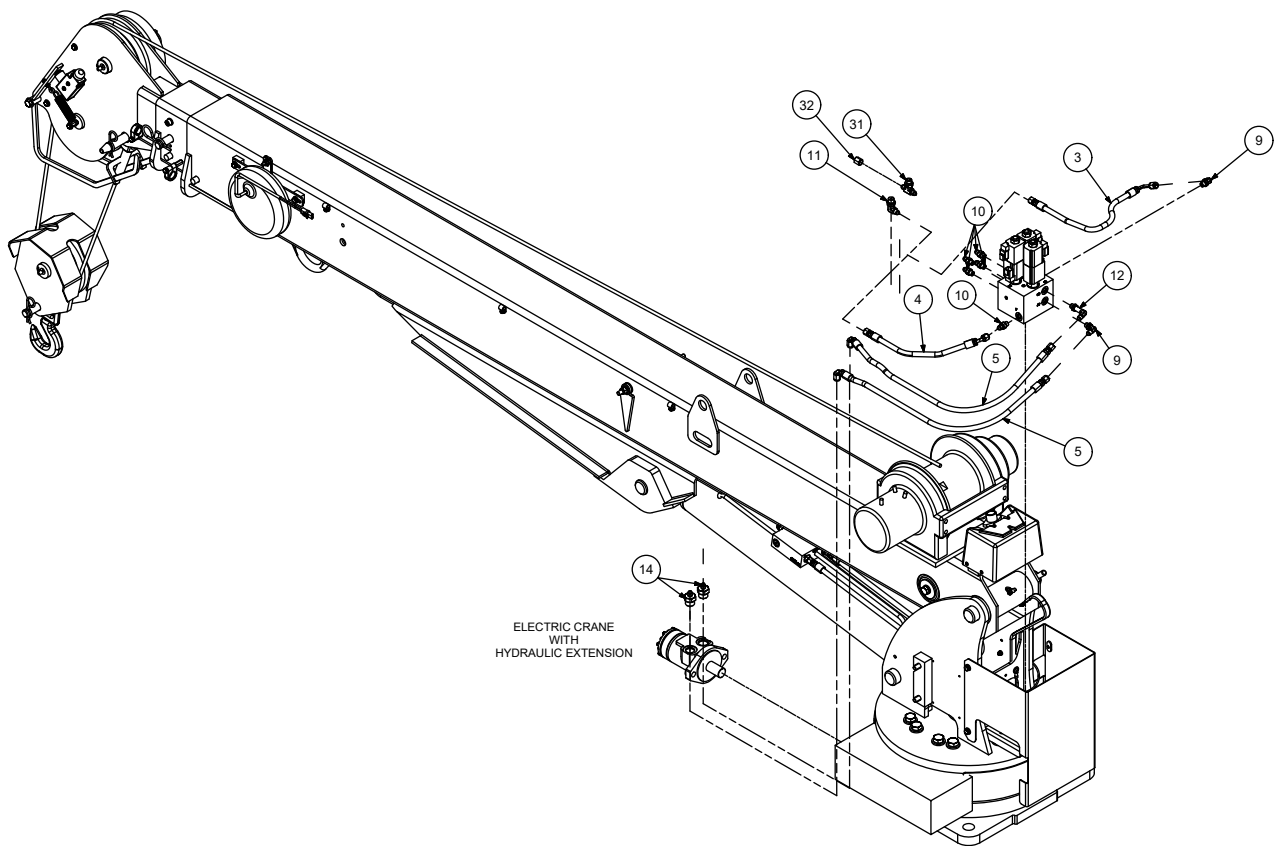
ELECTRIC CRANE WITH PROPORTIONAL VALVE (99904438-2)



99904438-2 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	99904336	CRANE ASM 5005I		REF
2.	51721707	KIT-HYD 50051		1
4.	51397336	HOSE-FI .25 X 12.50 (4-4) 100R17	2	1
5.	51395874	HOSE-FJ .25 X 26.00 (4-4) 100R17	2	2
9.	72053758	ELBOW-M STR/90/M JIC 4 4	2	2
10.	72532351	ADPTR-M STR/M JIC 4 4	2	7
11.	72532699	ELBOW-M STR/90/M JIC 6 4	2	1
12.	72533567	ELBOW-M STR/90/M JIC XLG 4 4	2	1
14.	72533589	ADPTR-M STR/M JIC 10 4	2	2
17.	73540325	VALVE-PROP FLOW CNTRL 12V ELEC CRANE		1
18.	91721626	KIT-HYD 50051 PROP	18	1
19.	51395663	HOSE-FJ .25 X 14.00 (4-4) 100R17	18	1
20.	51397434	HOSE-FZ .25 X 16.00 (4-4) 100R17	18	1
22.	72053758	ELBOW-M STR/90/M JIC 4 4	18	1
23.	72532351	ADPTR-M STR/M JIC 4 4	18	1
25.	72534477	ADPTR-M STR/M JIC 4 4 XLG	18	1
26.	51722635	KIT-HRDW PROP CNTRL VALVE 5005/6006		1
27.	72063001	WASHER .25 FLAT	26	2
29.	72060008	CAP SCR .25-20X 2.00 HH GR5 Z	26	2
30.	60134907	PLATE-SPACER PROP VLVE 5005/6006		1
31.	72534714	TEE-STL JIC/STR/JIC 4 6 4 BRANCH	2	1
32.	72532674	CAP-JIC STL 4 (.44 THD)	2	1
REV J				

ELECTRIC CRANE WITH HYDRAULIC EXTENSIONS (99904438-3)

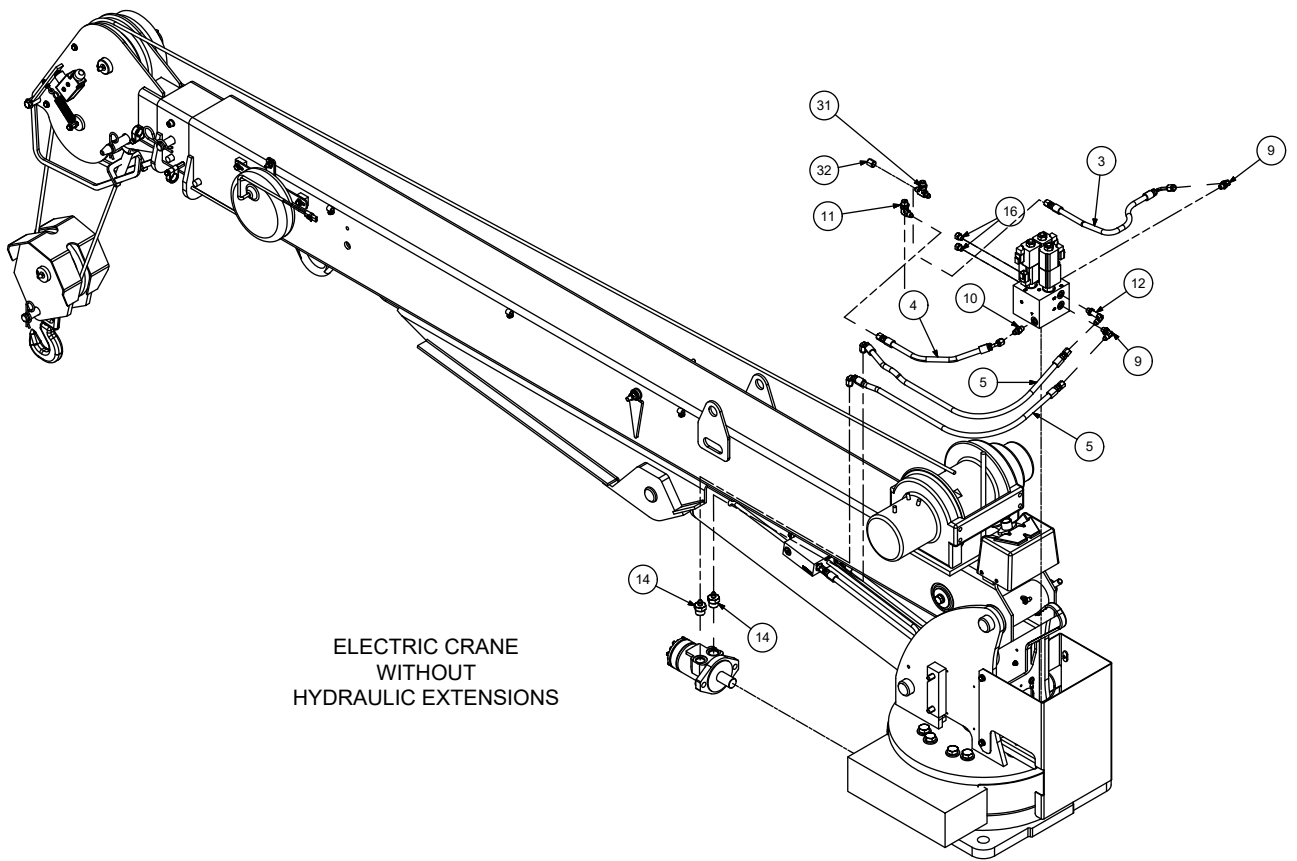


ELECTRIC CRANE WITH HYDRAULIC EXTENSION

99904438-3 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	99904336	CRANE ASM 5005I		REF
2.	51721707	KIT-HYD 50051		1
3.	51399460	HOSE-FZ .25 X 15.50 (4-4) 100R17	2	1
4.	51397336	HOSE-FI .25 X 12.50 (4-4) 100R17	2	1
5.	51395874	HOSE-FJ .25 X 26.00 (4-4) 100R17	2	2
9.	72053758	ELBOW-M STR/90/M JIC 4 4	2	2
10.	72532351	ADPTR-M STR/M JIC 4 4	2	7
11.	72532699	ELBOW-M STR/90/M JIC 6 4	2	1
12.	72533567	ELBOW-M STR/90/M JIC XLG 4 4	2	1
14.	72533589	ADPTR-M STR/M JIC 10 4	2	2
31.	72534714	TEE-STL JIC/STR/JIC 4 6 4 BRANCH	2	1
32.	72532674	CAP-JIC STL 4 (.44 THD)	2	1
REV J				

ELECTRIC CRANE WITHOUT HYDRAULIC EXTENSION (99904438-4)

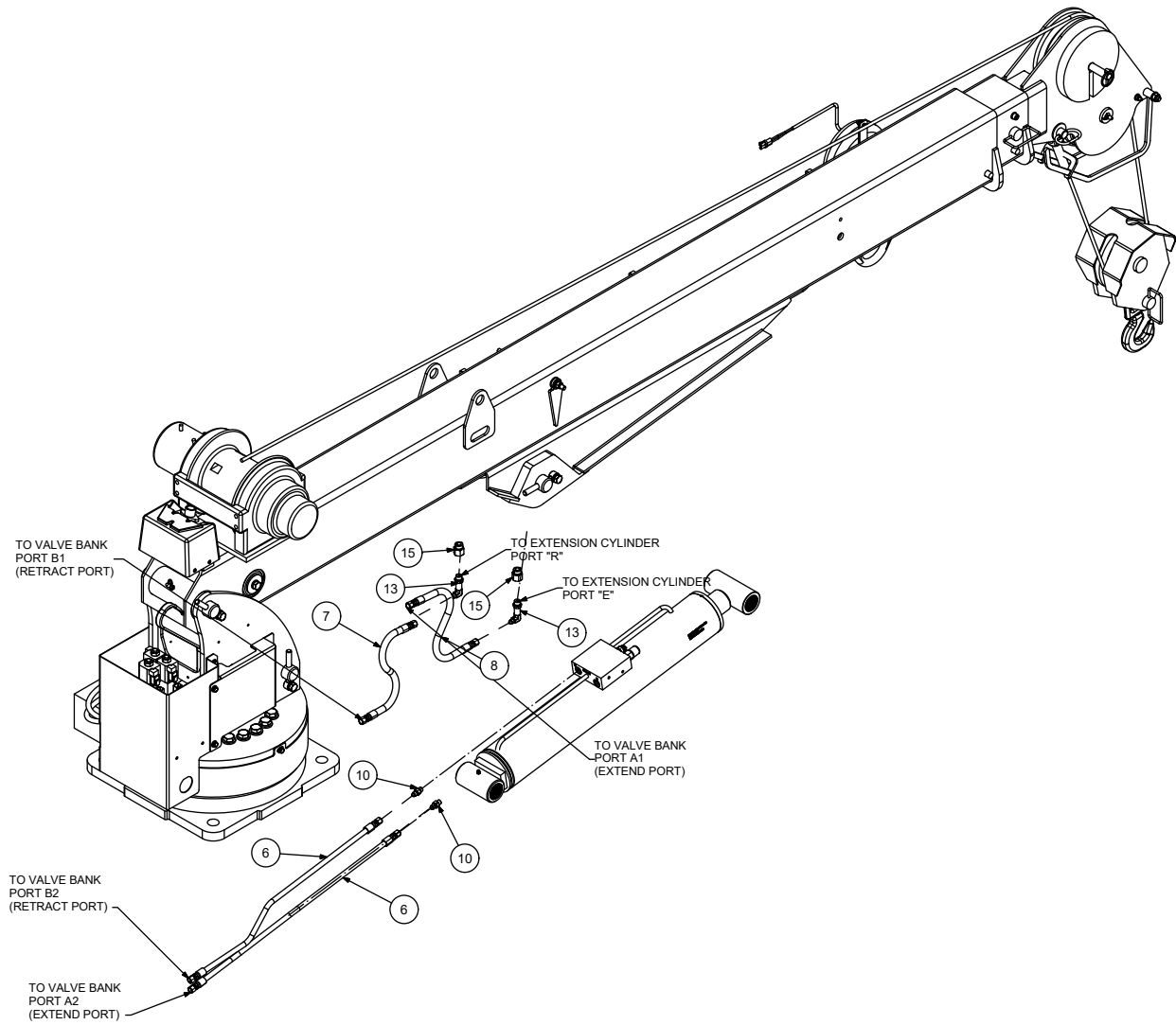


ELECTRIC CRANE
WITHOUT
HYDRAULIC EXTENSIONS

99904438-4 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	99904336	CRANE ASM 5005I		REF
2.	51721707	KIT-HYD 50051		1
3.	51399460	HOSE-FZ .25 X 15.50 (4-4) 100R17	2	1
4.	51397336	HOSE-FI .25 X 12.50 (4-4) 100R17	2	1
5.	51395874	HOSE-FJ .25 X 26.00 (4-4) 100R17	2	2
9.	72053758	ELBOW-M STR/90/M JIC 4 4	2	2
10.	72532351	ADPTR-M STR/M JIC 4 4	2	7
11.	72532699	ELBOW-M STR/90/M JIC 6 4	2	1
12.	72533567	ELBOW-M STR/90/M JIC XLG 4 4	2	1
14.	72533589	ADPTR-M STR/M JIC 10 4	2	2
16.	72532522	PLUG-STR HEX HD STL .44		2
31.	72534714	TEE-STL JIC/STR/JIC 4 6 4 BRANCH	2	1
32.	72532674	CAP-JIC STL 4 (.44 THD)	2	1
REV J				

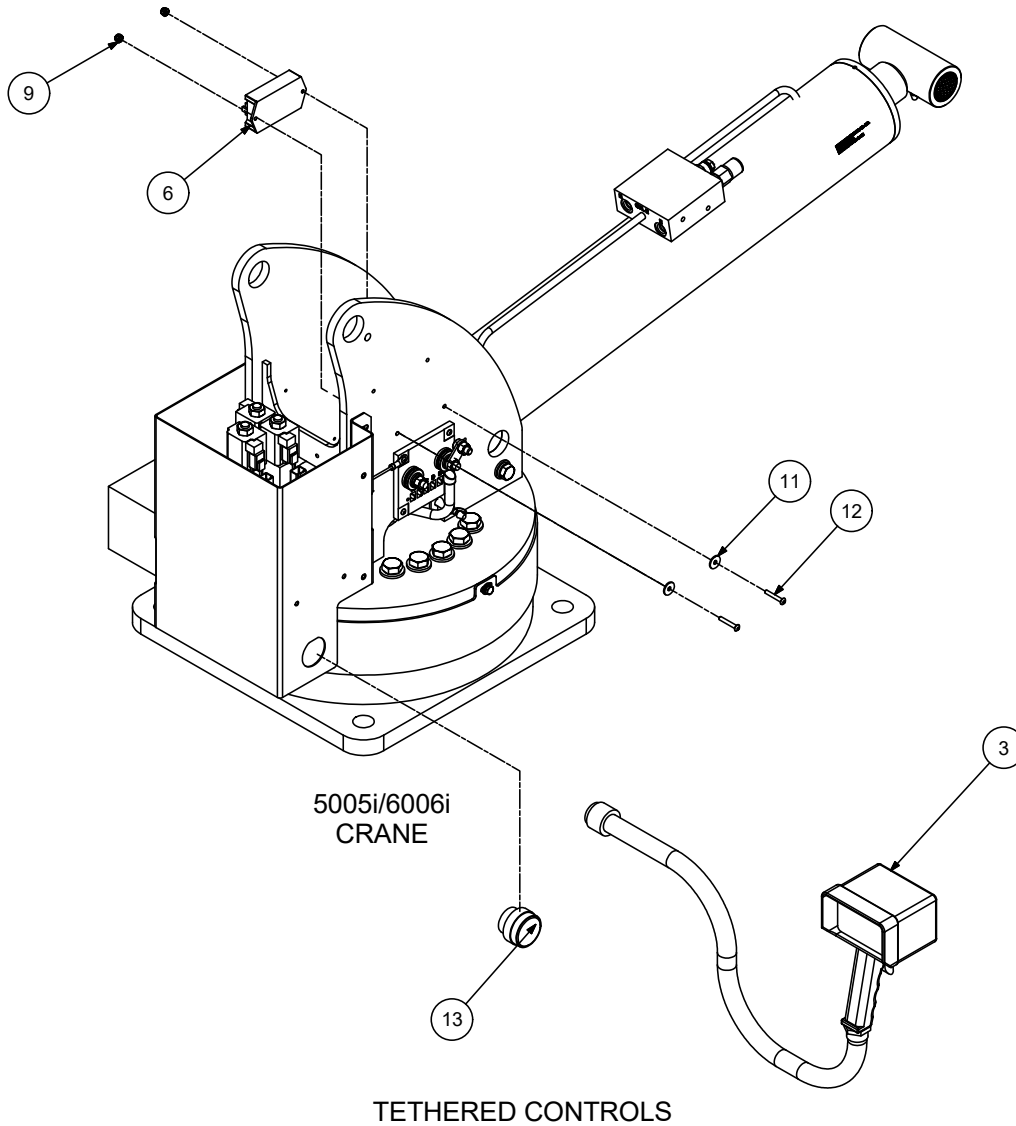
HYDRAULIC INSTALLATION 99904438-5



99904438-5 PARTS LIST

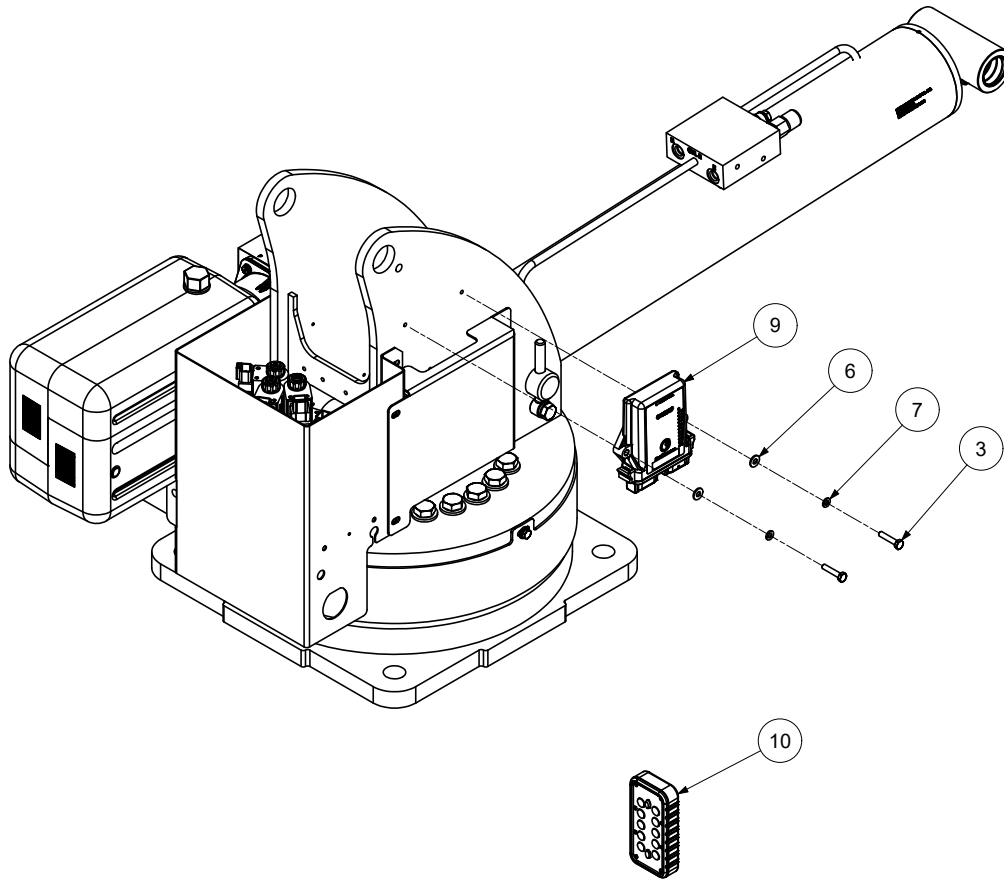
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	99904336	CRANE ASM 5005I		REF
2.	51721707	KIT-HYD 50051		1
6.	51397480	HOSE-FF .25 X 27.50 (4-4) 100R17	2	2
7.	51396413	HOSE-FF .25 X 22.00 (4-4) 100R17	2	1
8.	51395422	HOSE-FF .25 X 24.00 (4-4) 100R17	2	1
10.	72532351	ADPTR-M STR/M JIC 4 4	2	7
13.	72534567	ELBOW-M STR/90/M JIC XLG 6 4	2	2
15.	72533052	ADPTR-M STR/F STR 8 6	2	2
REV J				

Tethered Control Installation (99904593)



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	91721524	CONTROL KIT- TETHERED ELECTRIC CRANE	REF
3.	51721502	HANDLE ASM-TETHERED ELECTRIC CRANES	1
6.	71413190	RELAY-2 RELAY MODULE	1
9.	72062106	NUT 10-24 HEX NYLOCK	2
11.	72063268	WASHER #10 W FLAT ANSI B27.2Z	2
12.	72602013	SCR-MACH #10-24X 1.25 BTNHD ZC	2
13.	77044667	PLUG CAP-DEUTSCH HDC36-24	1
REV. B			

Radio Control Installation, Standard (99904594)



5005i/6006i
CRANE

ON-OFF RADIO CONTROLS

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91728551	CONTROL KIT-RADIO ELEC CRN 12V ON/OFF		1
2.	60133634	SLEEVE-TYPE C .63X .81X .31	1	2
3.	72060005	CAP SCR .25-20X 1.25 HH GR5 Z	1	2
4.	72060008	CAP SCR .25-20X 2.00 HH GR5 Z	1	2
5.	72062104	NUT .25-20 HEX NYLOCK	1	2
6.	72063001	WASHER .25 FLAT	1	4
7.	72063049	WASHER .25 LOCK	1	2
8.	60140653	COVER- VALVE BANK 3203I	1	1
9.	70735266	RECEIVER-RAD REM S2 ELECTRIC ON-OFF	1	1
10.	70735261	TRANSM-RAD REM S2 ELECTRIC ON-OFF	1	1

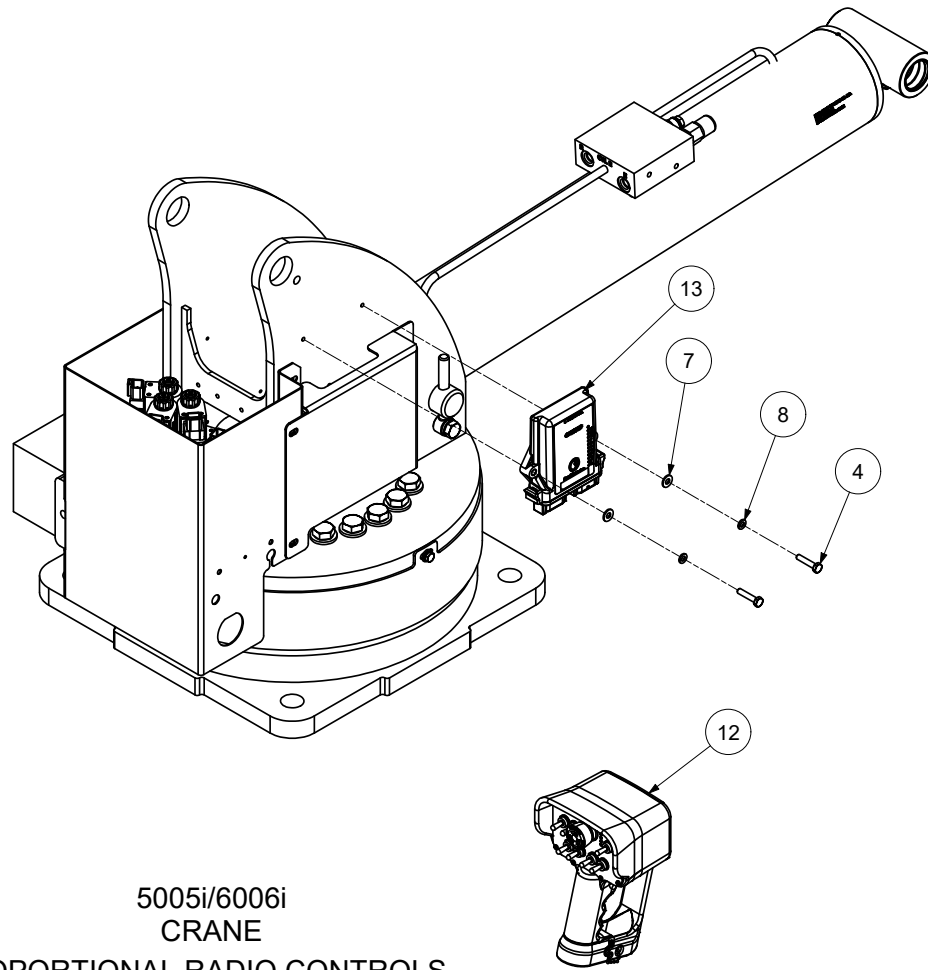
REV. B CN1341-2

NOTE:

1. CONTROLS KIT 91721523 REPLACED BY 91728551, RECEIVER 70734329 REPLACED BY 70735266, AND TRANSMITTER 70734330 REPLACED BY 70735261 EFFECTIVE JANUARY 2023.

2. SEE 99904522 FOR INSTALLATION DRAWING PRIOR TO 2-15-09. COMPONENT PARTS ARE THE SAME.

Radio Control Installation, Proportional (99904595)



5005i/6006i
CRANE

PROPORTIONAL RADIO CONTROLS

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91728552	CONTROL KIT-RADIO ELEC CRN 12V PROP		1
2.	60133634	SLEEVE-TYPE C .63X .81X .31	1	2
3.	70734988	CABLE ASM-33FT 5 PIN RADIO ELIMINATION	1	1
4.	72060005	CAP SCR .25-20X 1.25 HH GR5 Z	1	2
5.	72060008	CAP SCR .25-20X 2.00 HH GR5 Z	1	2
6.	72062104	NUT .25-20 HEX NYLOCK	1	2
7.	72063001	WASHER .25 FLAT	1	4
8.	72063049	WASHER .25 LOCK	1	2
9.	73540325	VALVE-PROP FLOW CNTRL 12V ELEC CRANE	1	1
10.	77441270	HARNESS-RADIO ELECTRIC CRANE	1	1
11.	91721626	KIT-HYD PROP ELEC CRANE	1	1
12.	70735257	TRANSM-RAD REM S2 ELECTRIC	1	1
13.	70735258	RECEIVER-RAD REM S2 ELECTRIC	1	1

REV. B CN1341-2

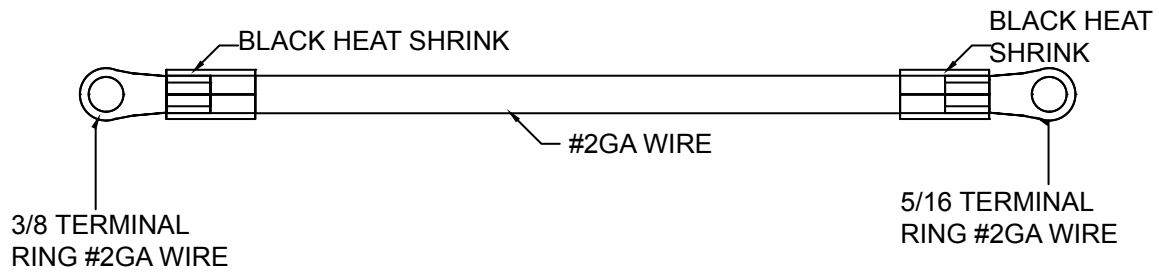
NOTE:

1. CONTROLS KIT 91721644 REPLACED BY 91728552, RECEIVER 70734347 REPLACED BY 70735257, AND TRANSMITTER 70734348 REPLACED BY 70735258 EFFECTIVE JANUARY 2023.

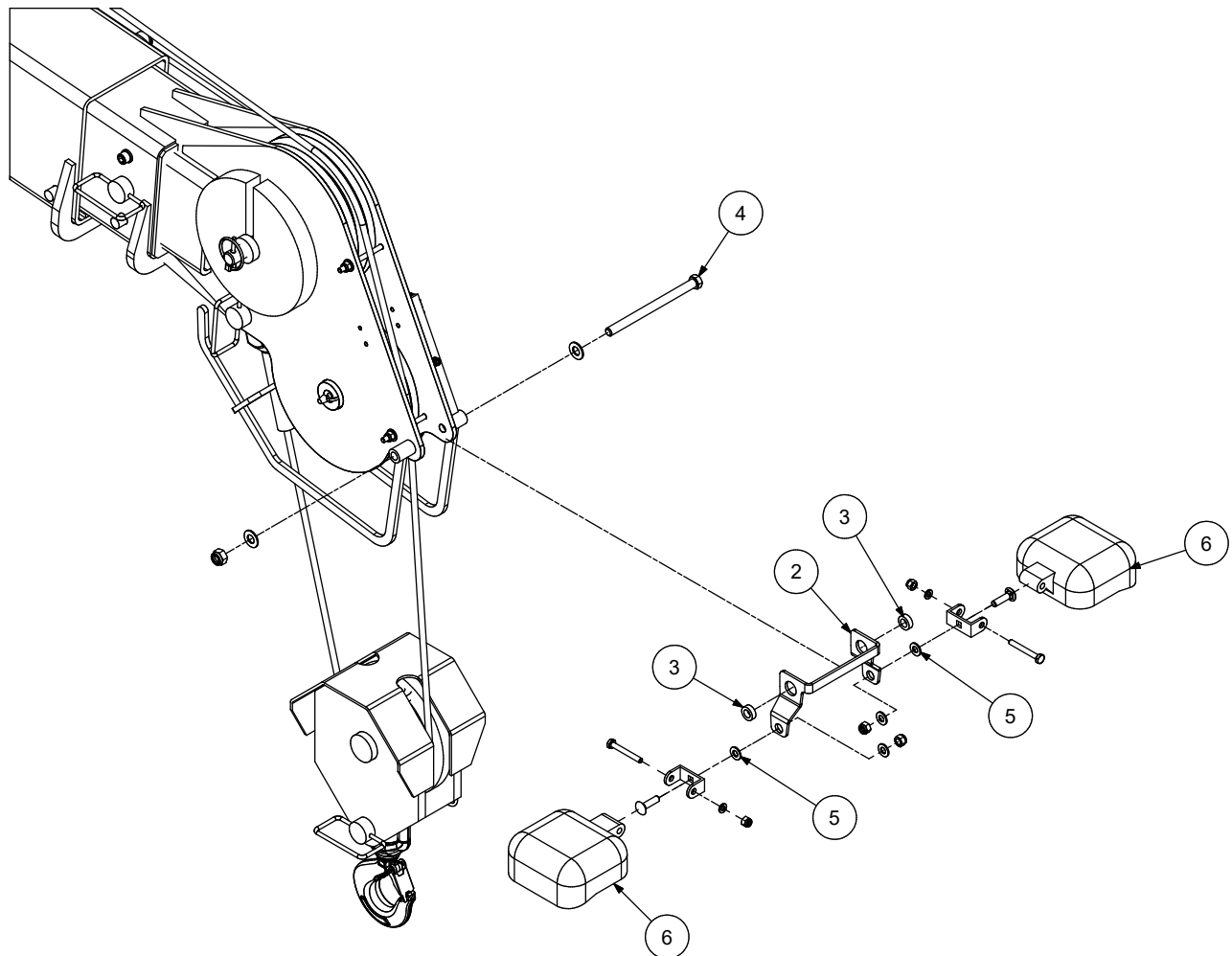
Section 4

Electrical & Lighting

Cable Assembly (51726427)

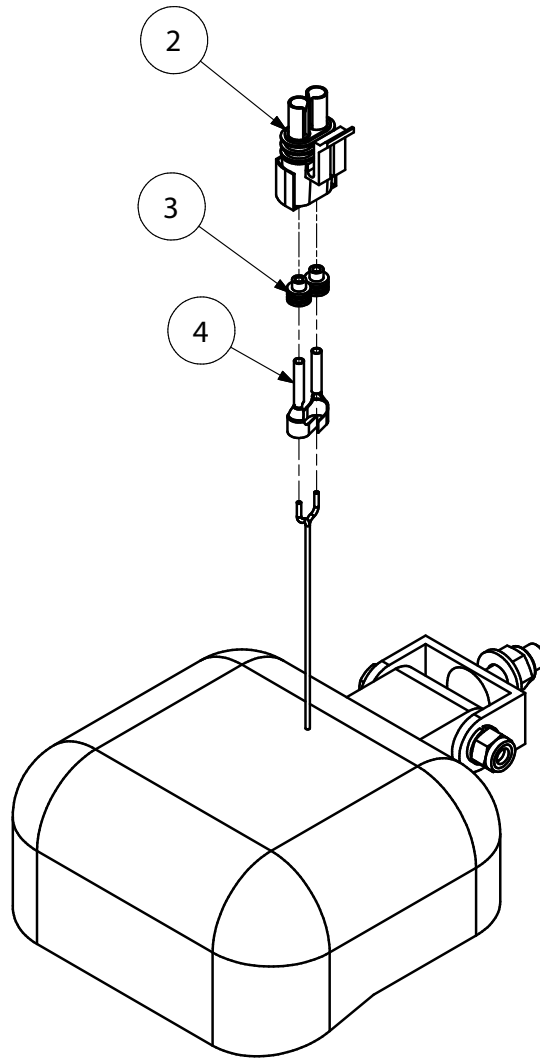


Light Kit (99906235)



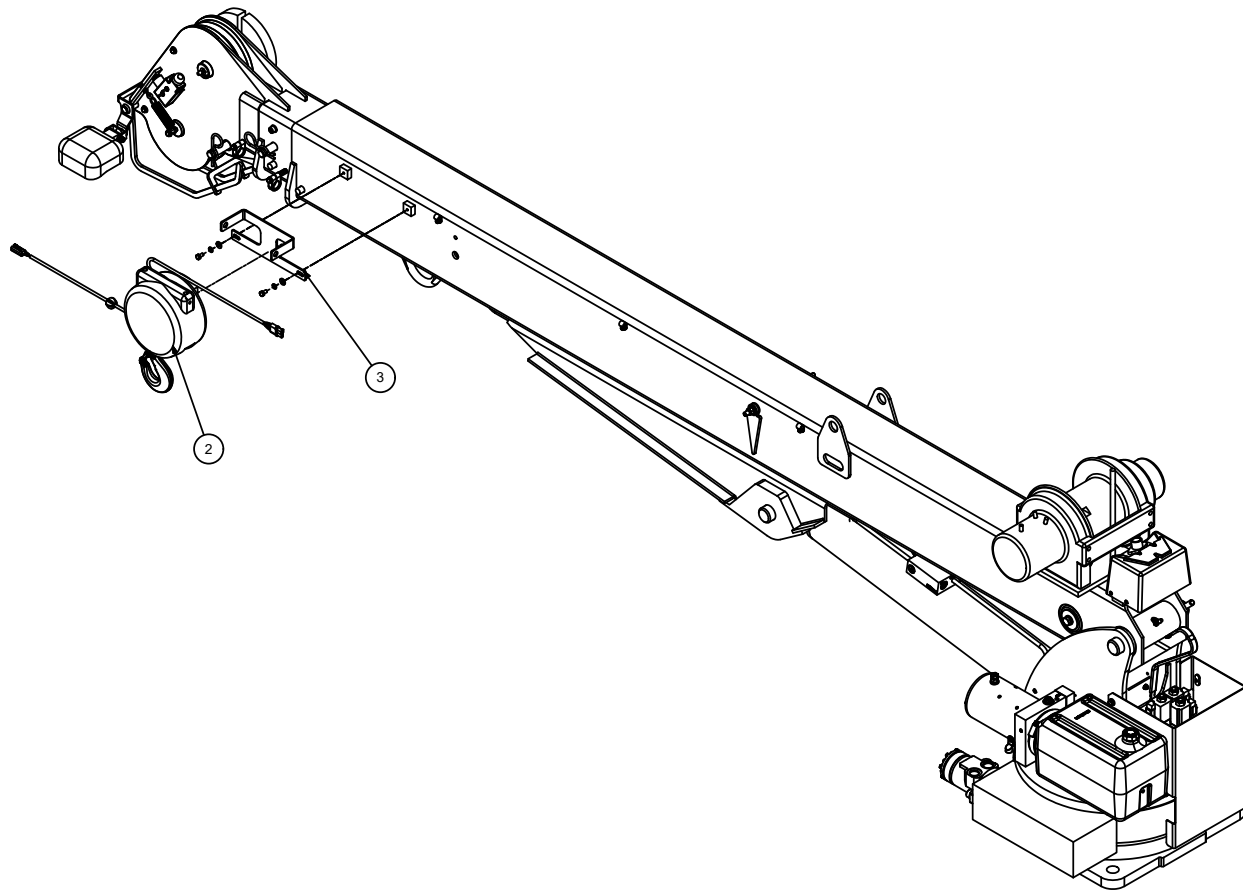
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	51727280	ELECT KIT-BOOM FLOOD LIGHTS 5005I-6006I		1
2.	60145056	BRACKET-LIGHT 3203I-4004I	1	1
3.	60145332	SLEEVE-TYPE C .44X .75X .25	1	2
4.	72060076	CAP SCR .44-14X 6.00 HH GR5 Z	1	1
5.	72063002	WASHER .31 FLAT	1	2
6.	77040581	FLOODLIGHT-LED 12-36VDC	1	2
REV. D				

99906235-1



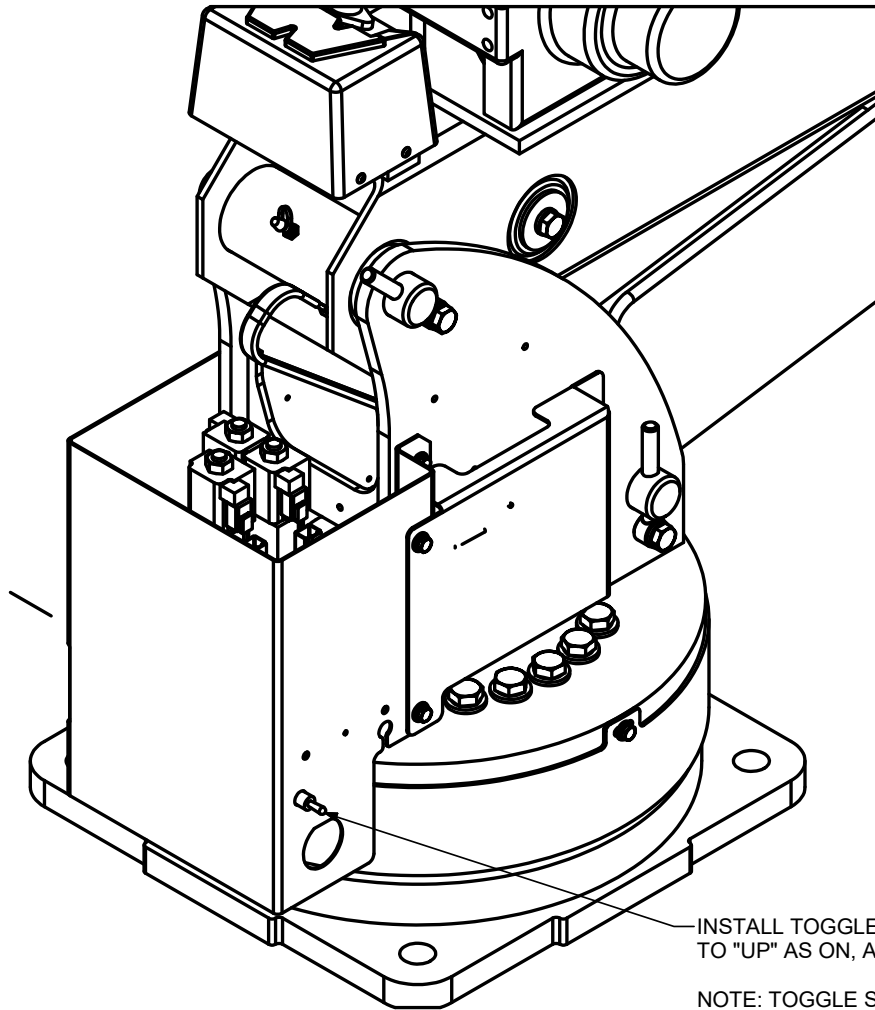
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	51727280	ELECT KIT-BOOM FLOOD LIGHTS 5005I-6006I		1
2.	77044574	CONN-PKRD WEATHERPACK 2 CAV FEMALE/ TOWER	1	1
3.	77044927	CABLE SEAL-PKRD WP/MP 14 GA GREY	1	2
4.	77045888	TERM-PKRD WEATHERPACK 14-16GA FEMALE	1	2
REV. D				

99906235-2



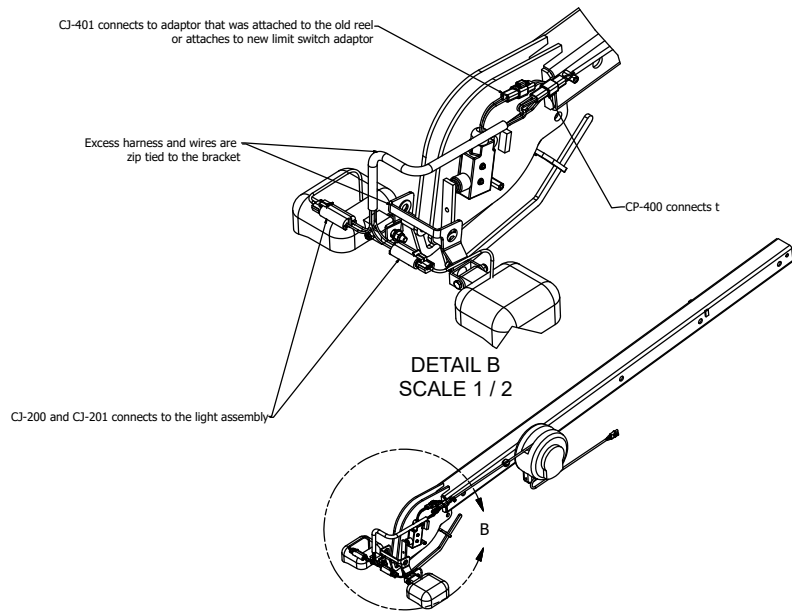
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY
1.	51727280	ELECT KIT-BOOM FLOOD LIGHTS 5005I-6006I		1
2.	51727417	CORD REEL ASM 10.5' W/PACKARD CONN 3-WIR	1	1
3.	60132111	BRKT- CORD REEL MNT	1	1
REV. D				

99906235-3

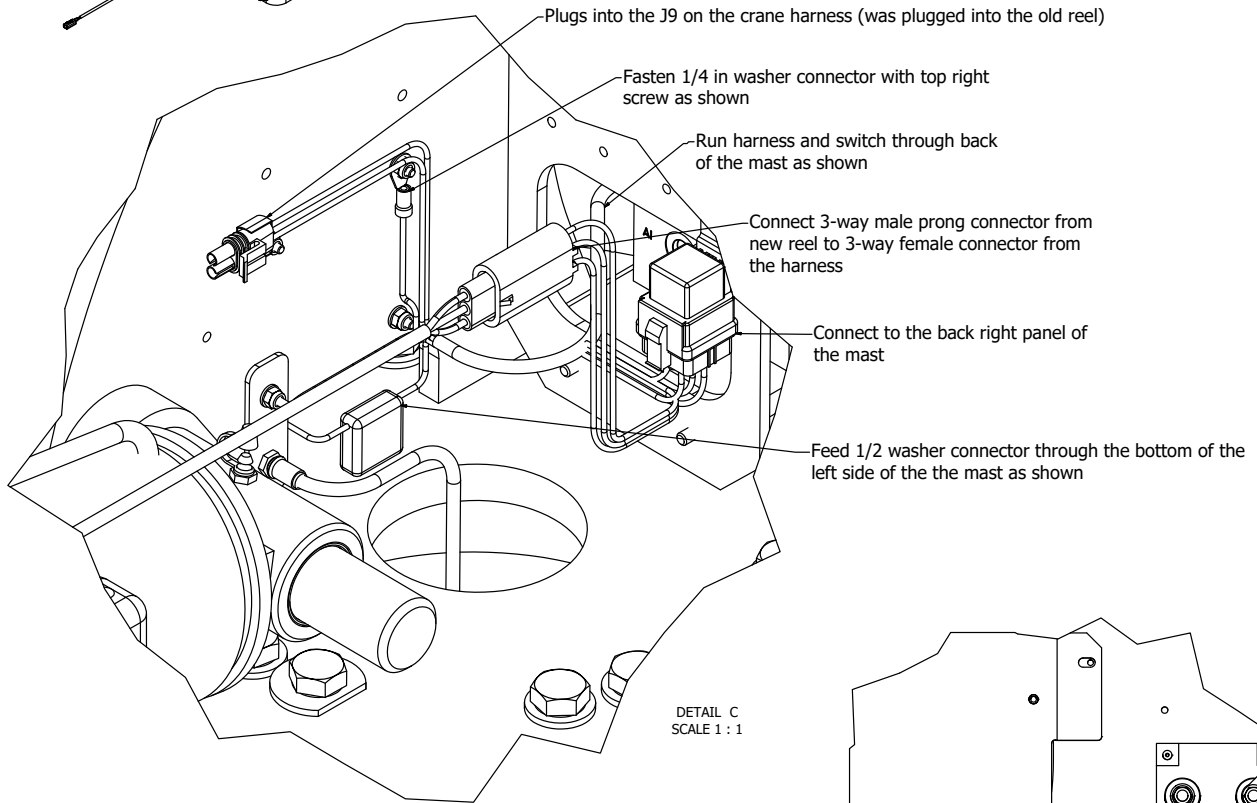
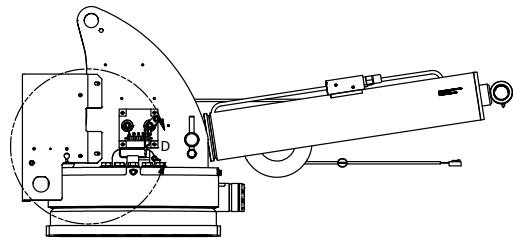
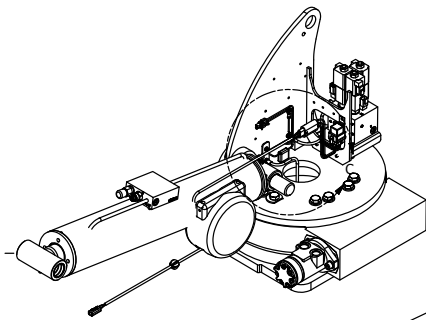


INSTALL TOGGLE SWITCH IN VALVE BANK C TO "UP" AS ON, AND "DOWN" AS OFF.

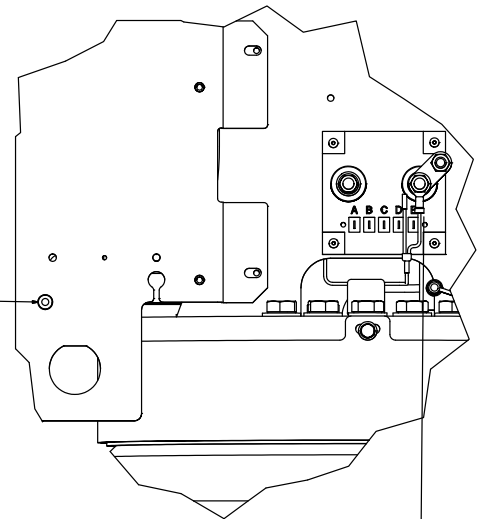
NOTE: TOGGLE SWITCH 77041345 IS PART OF HARNESS 77441674.



99906235-4



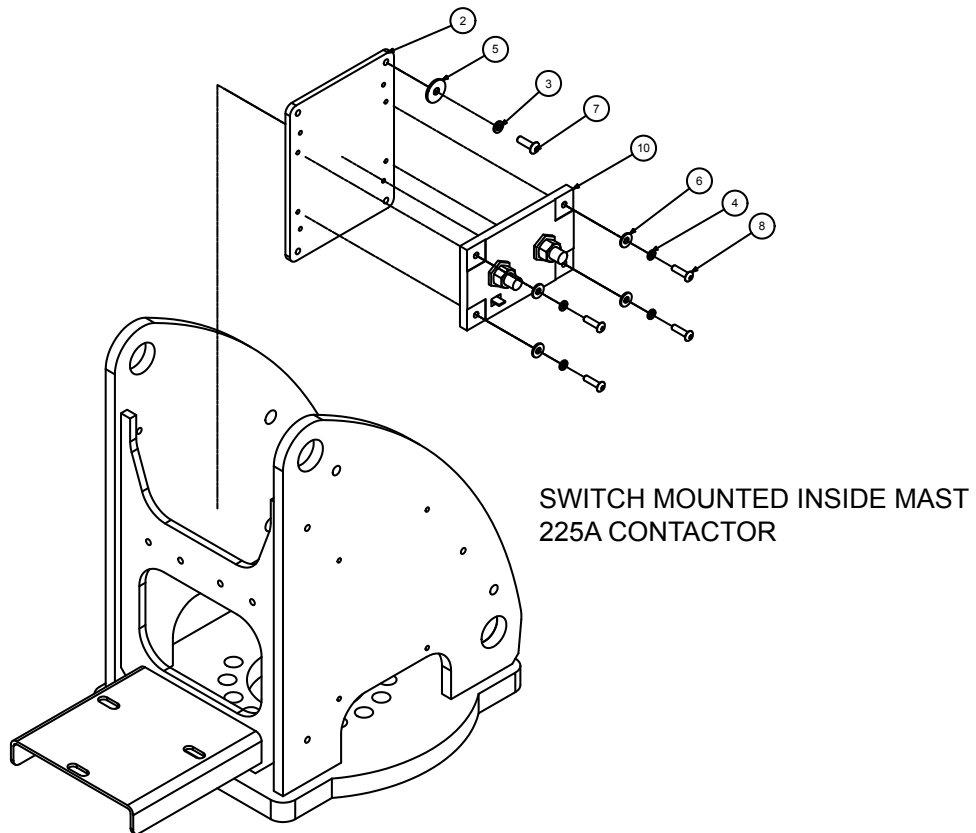
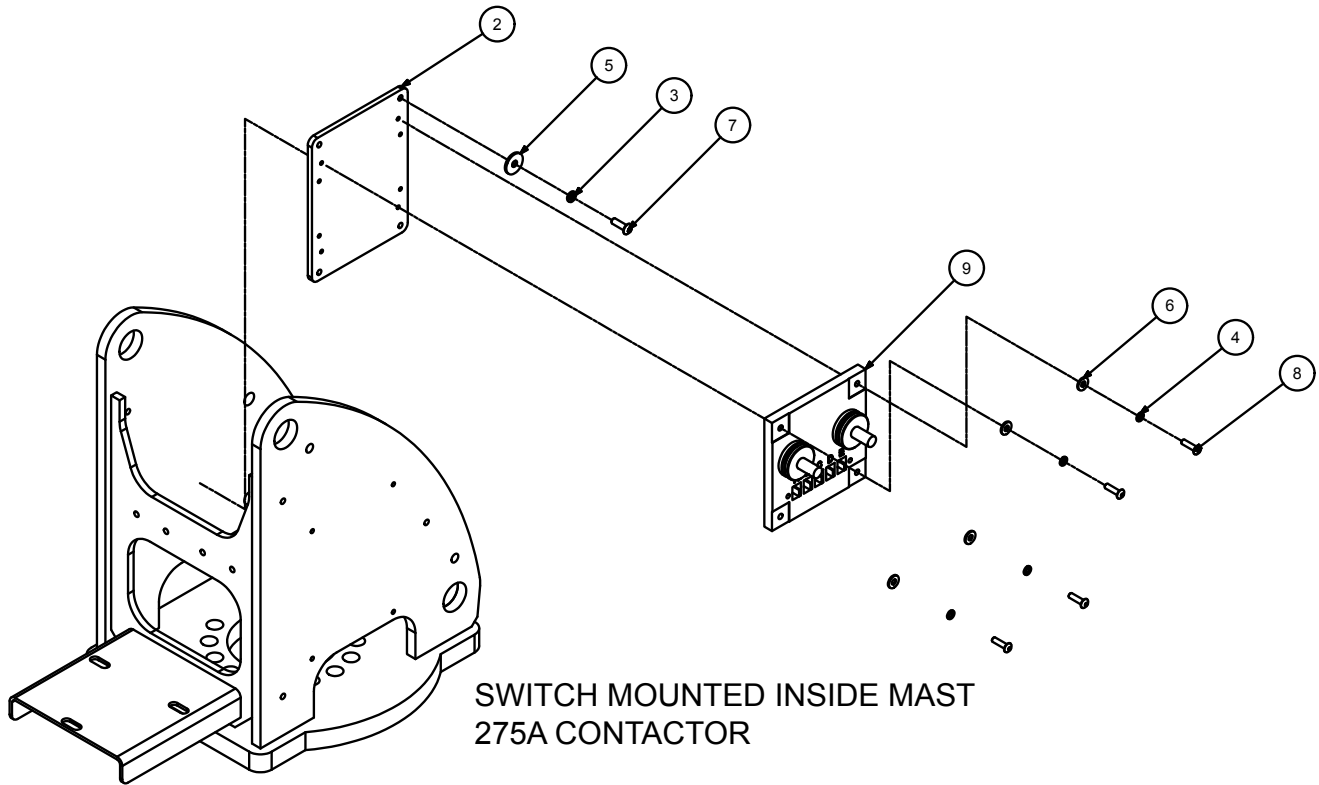
Switch placement in back cover



DETAIL D
SCALE 1 / 2

Connect 1/2 in. washer connector to the right power entry

275 & 225-Amp Contactor Replacement (99904578)



99904578-275A CONTACTOR

ITEM NO	PART NO.	DESCRIPTION	KIT NO.	QTY
1.	91722165	KIT-HRDW CONTACTOR REPLACEMENT		1
2.	60251278	PLATE-CONTACTOR MNT		1
3.	72063047	WASHER #10 LOCK	1	4
4.	72063239	WASHER # 8 LOCK	1	4
5.	72063268	WASHER #10 W FLAT ANSI B27.2Z	1	4
6.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	1	4
7.	72602007	SCR-MACH #10-24X .62 BTNHD ZC	1	4
8.	72602011	SCR-MACH # 8-32X .62 BTNHD ZC	1	4
9.	77441336	SWITCH- 275A CONTACTOR		1
REV. B				

99904578-225A PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1	91722165	KIT-HRDW CONTACTOR REPLACEMENT		1
2	60251278	PLATE-CONTACTOR MNT		1
3	72063047	WASHER #10 LOCK	1	4
4	72063239	WASHER # 8 LOCK	1	4
5	72063268	WASHER #10 W FLAT ANSI B27.2Z	1	4
6	72063271	WASHER # 8 W FLAT ANSI B27.2Z	1	4
7	72602007	SCR-MACH #10-24X .62 BTNHD ZC	1	4
8	72602011	SCR-MACH # 8-32X .62 BTNHD ZC	1	4
10	77441534	SWITCH-225A CONTACTOR 12V OR 24V		1
REV. B				

Protective Sleeve Installation (70034573)



Step 1: Place the protective sleeve under the fuse holder, centering the holder with the protective sleeve.



Step 2: Securely wrap the two ends of the protective sleeve together making sure velcro is sealed on the top side of the front jump start plug holder.



Step 3: Securely zip tie both ends of the protective sleeve.

WARNING

For trucks without a battery disconnect switch, to prevent accidental vehicle start-up, which could cause death or serious injury, disconnect battery cables (negative cable first) before proceeding. Disconnect negative (-) battery cable first, if positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury.

AMG FUSE HOLDERS REQUIRING PROTECTIVE SLEEVE	
PART NO.	DESCRIPTION
77041593	FUSE HOLDER-AMG 1 POS W-COVER HMG-221
77441116	FUSE HOLDER-AMG 1 POS W-COVER FMG-211
77040714	FUSE HOLDER-AMG AND MEGA 500 AMP W/COVER

CAUTION

AVOID POSSIBLE FIRE!
Visually inspect and verify no other fuse holder posts are coming in contact with the chassis. The contact of a fuse to a grounded structure can cause a potentially dangerous short circuit. Failure to inspect and verify the fuse holder posts could result in a fire.

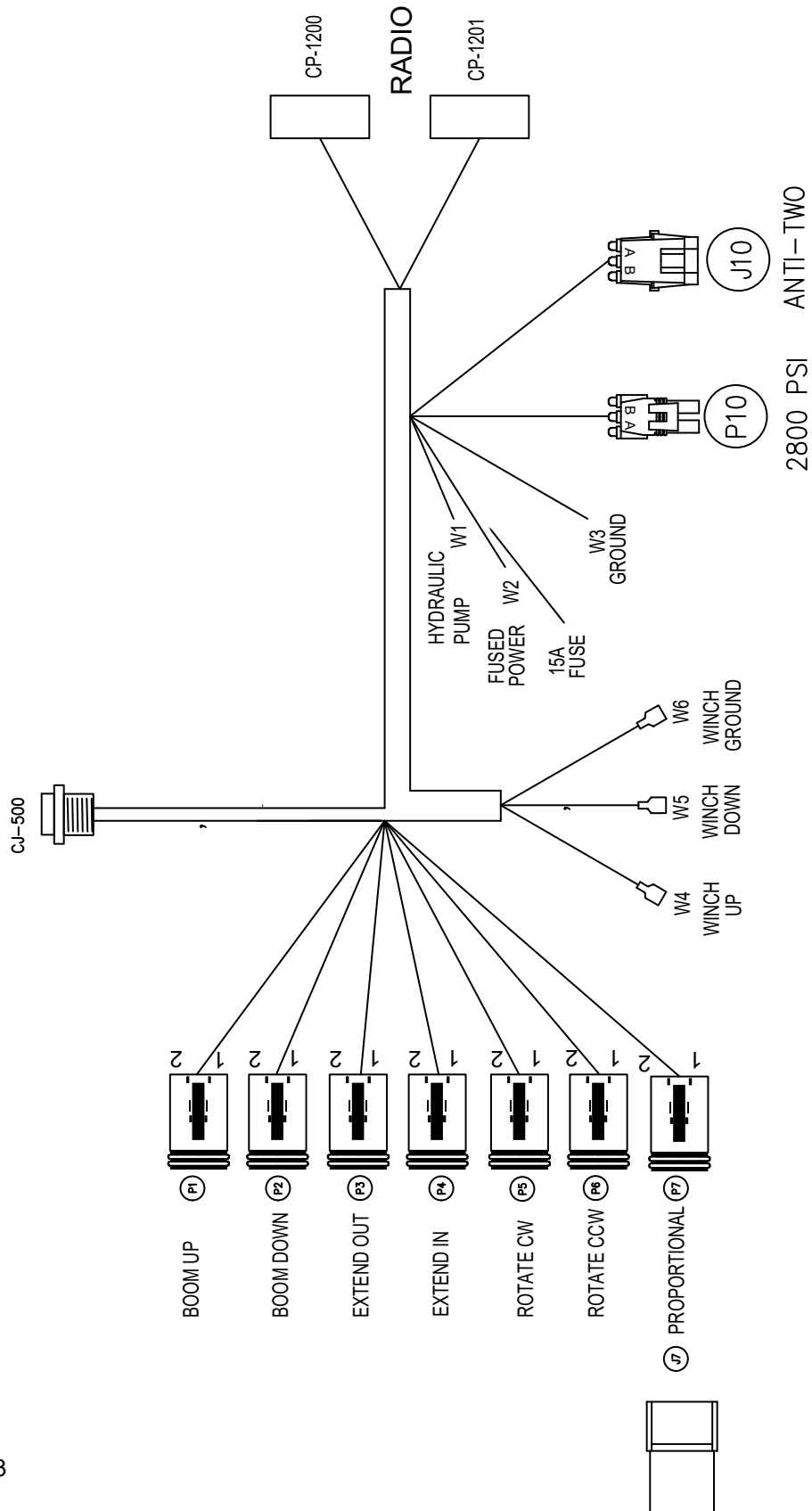
SAFETY NOTICE

Use appropriate Personal Protective Equipment (PPE) as required by your company. Read and understand the following instructions found within this document prior to starting work on the chassis.

SAFETY NOTICE

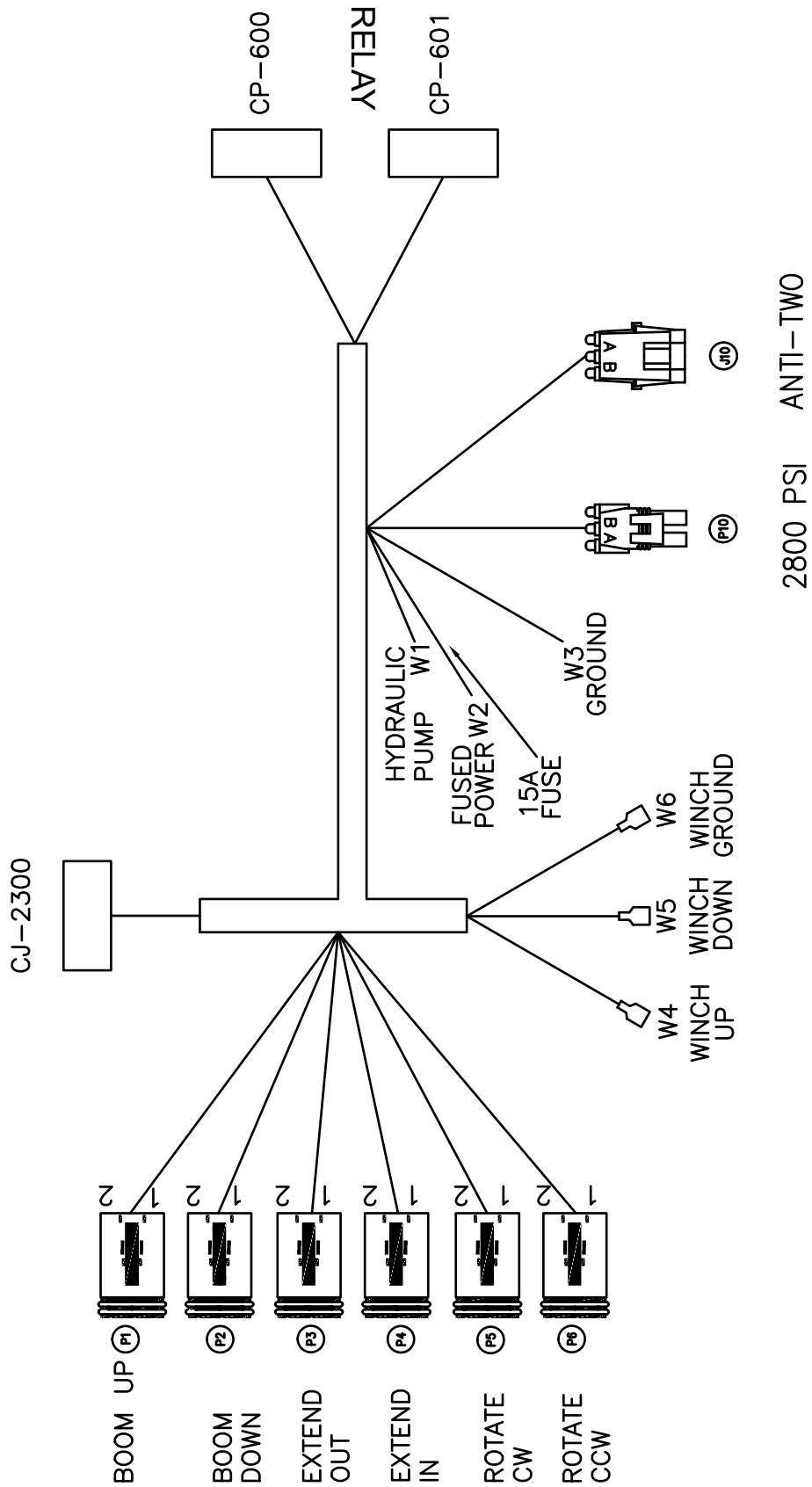
Follow your company's Lock-Out/Tag-Out procedures to prevent the truck from being started or moved while performing work on this crane. If your company does not have a Lock-Out/Tag-Out procedure, follow OSHA 1910.147, Lock-Out/Tag-Out.

Harness, Radio (77441270)



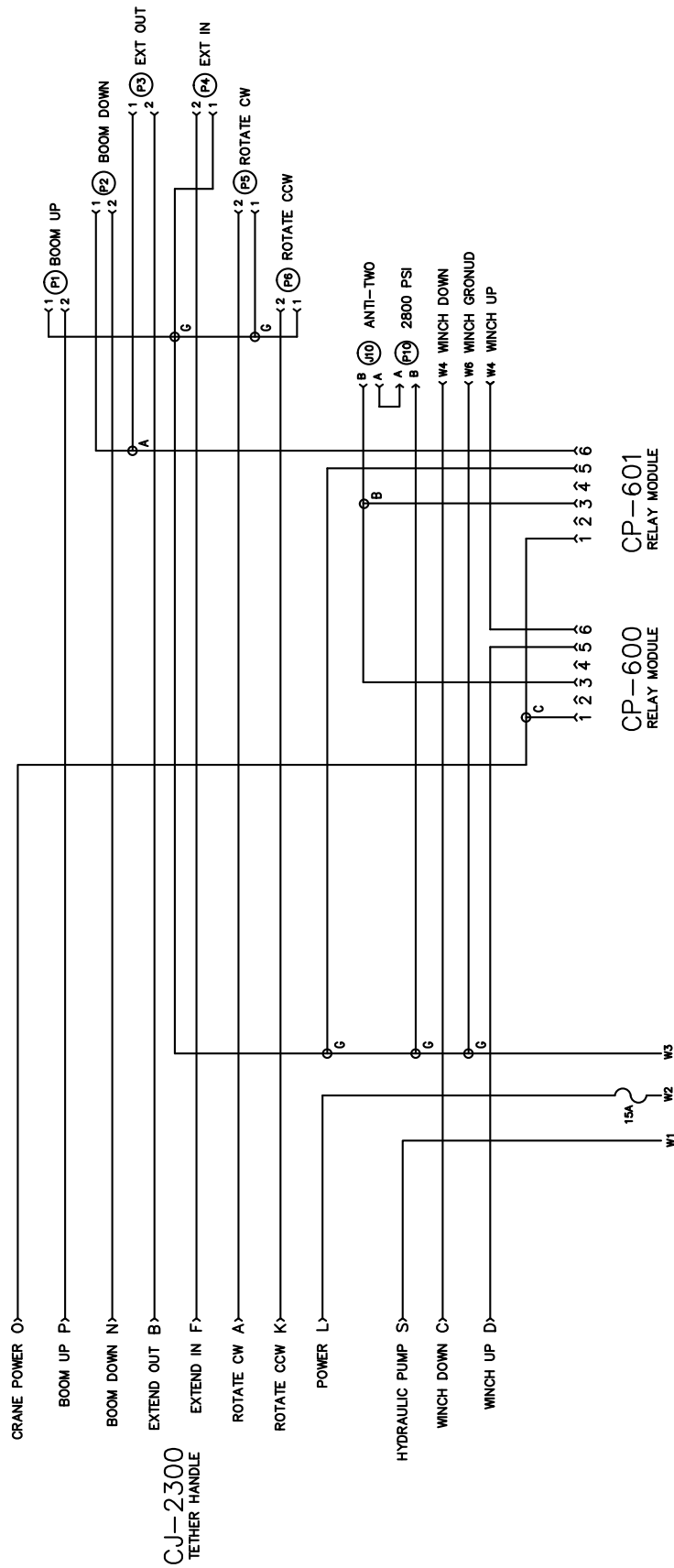
REV. L CN773

Harness, Tethered (77441269)

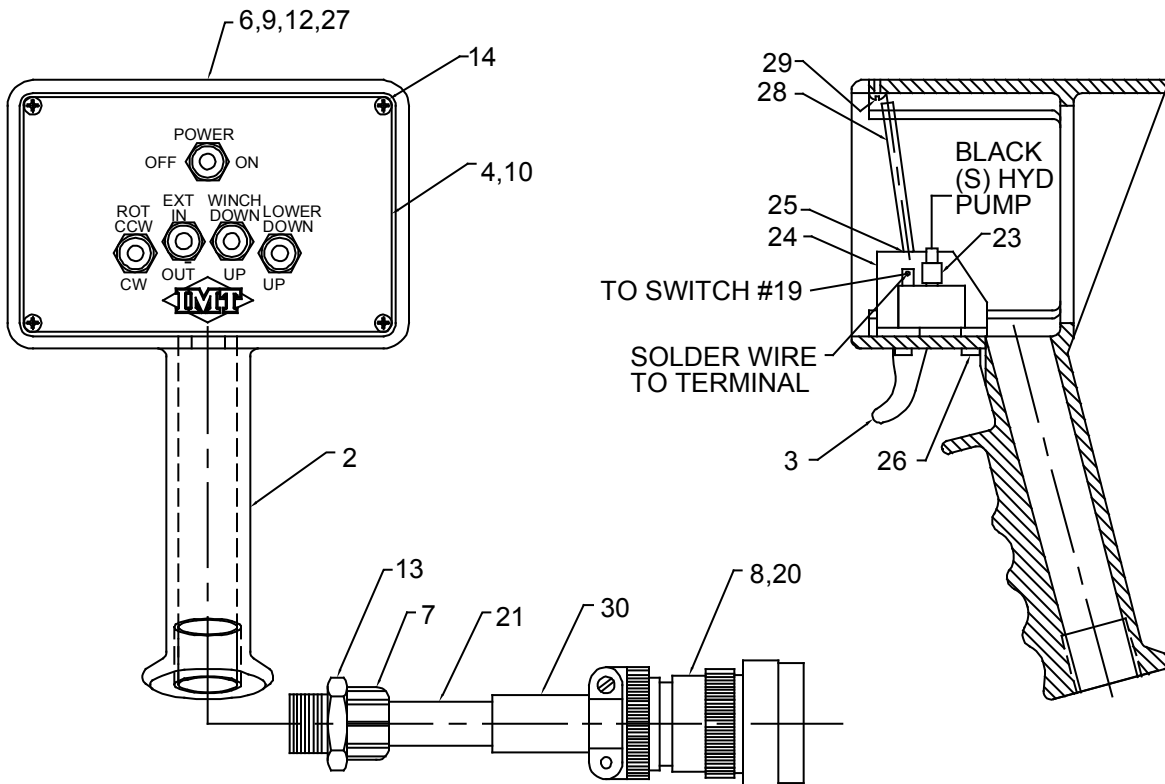


REV. H

SCHEMATIC, TETHERED (77441269)



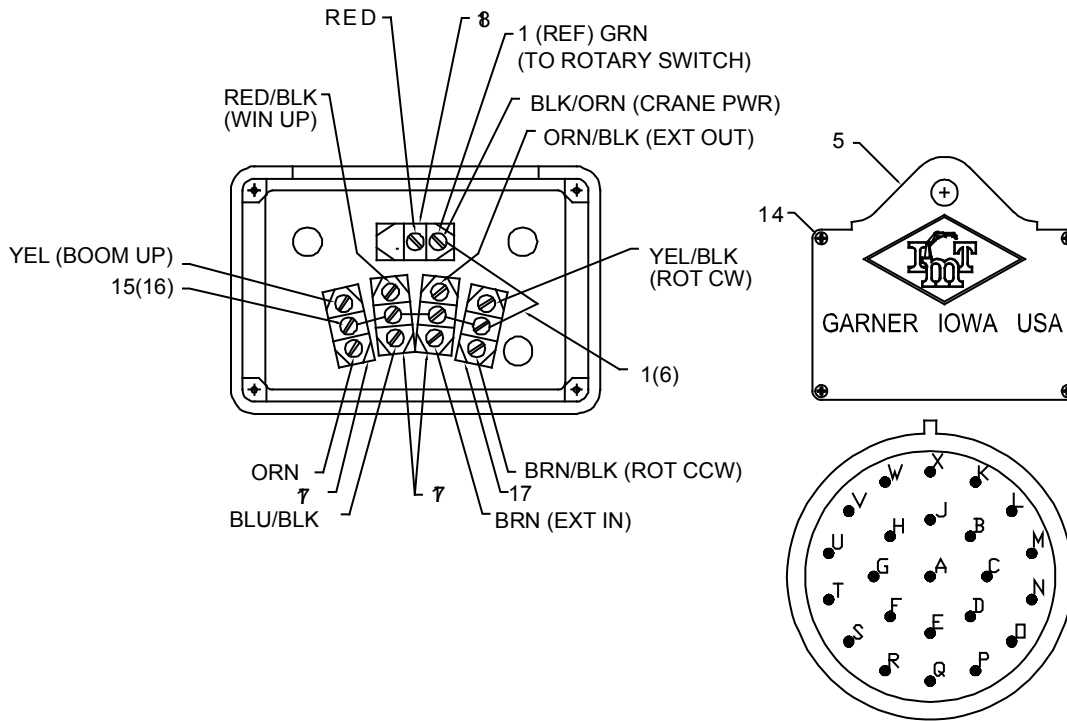
Handle Assembly, Tethered (51721502)



NOTES:

1. TETHERED HANDLE ASSEMBLY IS NON-SERVICEABLE. IF DAMAGED, A NEW ASSEMBLY IS REQUIRED.

TETHERED REMOTE HANDLE ASSEMBLY (51727502)



SOLID / STRIPE		FUNCTION
A	YEL/BLK	ROT CW
B	ORN/BLK	EXT OUT
C	BLU/BLK	WINCH DN
D	RED/BLK	WINCH UP
E	ORN/RED	-
F	BRN	EXT IN
G	BRN/RED	-
H	BLU/RED	-
J	BLK/RED	-
K	BRN/BLK	ROT CCW
L	RED	POWER
M	BLU	-
N	ORN	LOWER DN
O	BLK/ORN	CRANE POWER
P	YEL	LOWER UP
Q	BRN/BLU	-
R	YEL/RED	-
S	BLK	HYD PUMP
T	BLK/BLU	-
U	RED/BLU	-
V	BLU/ORN	-
W	ORN/BLU	-
X	YEL/BLU	-
-	RED/ORN	-

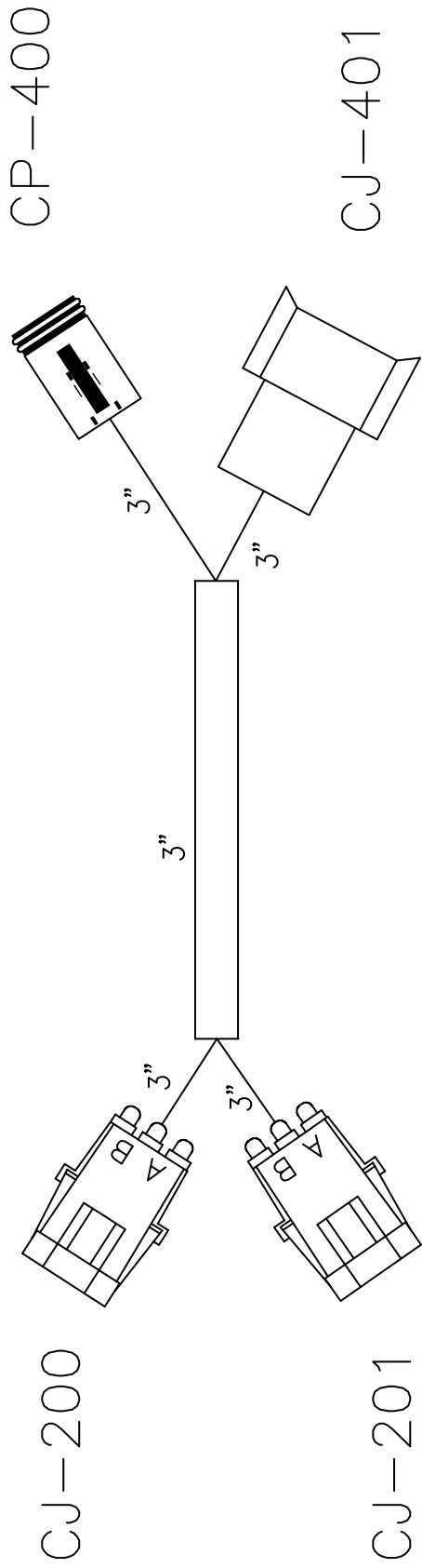
51727502 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	60045031	WIRE 18GA X 4 GRN	6
2.	60119335	CONTROL HANDLE	1
3.	60111141	TRIGGER (PART OF 25)	1REF
4.	60119277	COVER	1
5.	70034306	BACK COVER	1
6.	70029119	PLACARD, SERIAL NUMBER	1
7.	77044196	CORD GRIP, LOCTITE	1
8.	77044621	PIN	23
9.	70394447	DECAL-DGR RC ELECTRO SM	1
10.	70394142	DECAL-TELESCOPIC REMOTE 95	1
11.	77044969	SWITCH, ROTARY ELEC (PART OF 25)	1REF
12.	72066340	POP RIVET	2
13.	72531833	BUSHING, RED STL 3/4 X 1/2	1
14.	72061009	SHT MTL SCR #6X3/4 PH	8
15.	77040051	TERM-SPRSPD #8 16-14GA	16
17.	77040372	TOGGLE SWITCH SPDT	4
18.	77040373	TOGGLE SWITCH SPST	1
20.	77044579	CONNECTOR	1
21.	89044100	CABLE 18GA 24WIRE	30 FT
23.	77044695	TERMINAL, FSLPON	1
24.	70733518	BRACKET, TRIGGER (PART OF 25)	1REF
25.	51716499	TRIGGER ASSEMBLY (INCL 3,11,24,26,28-29)	1
26.	72601346	SCR-MACH #8-32 PAN HEAD (PART OF 25)	4REF
27.	70395995	DECAL-CAUTION RC HANDLE ELEC PWR UNIT	1
28.	70143223	SPRING, TENSION (PART OF 25)	1REF
29.	72061000	SCR-SHT METAL #6X1/2 PH (PART OF 25)	1REF
30.	70145495	HEAT SHRINK	0.33 FT
NEW 20080407			

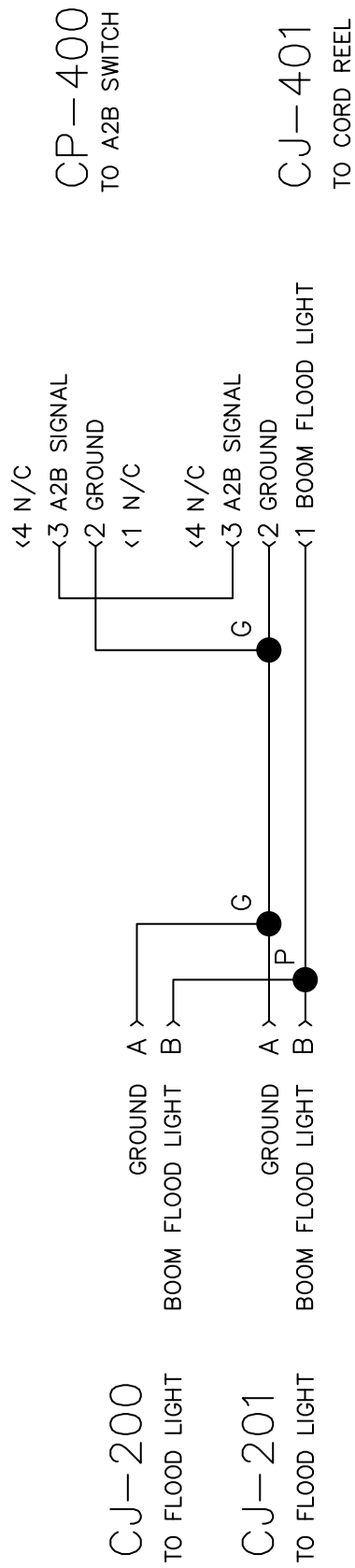
NOTE:

KIT # 51717816, TETHERED CABLE - 30 FEET, INCLUDES ITEMS 8, 15 (QTY 24), 20, 21, AND 30. ORDER 51717816 TO REPLACE THE CABLE ASSEMBLY.

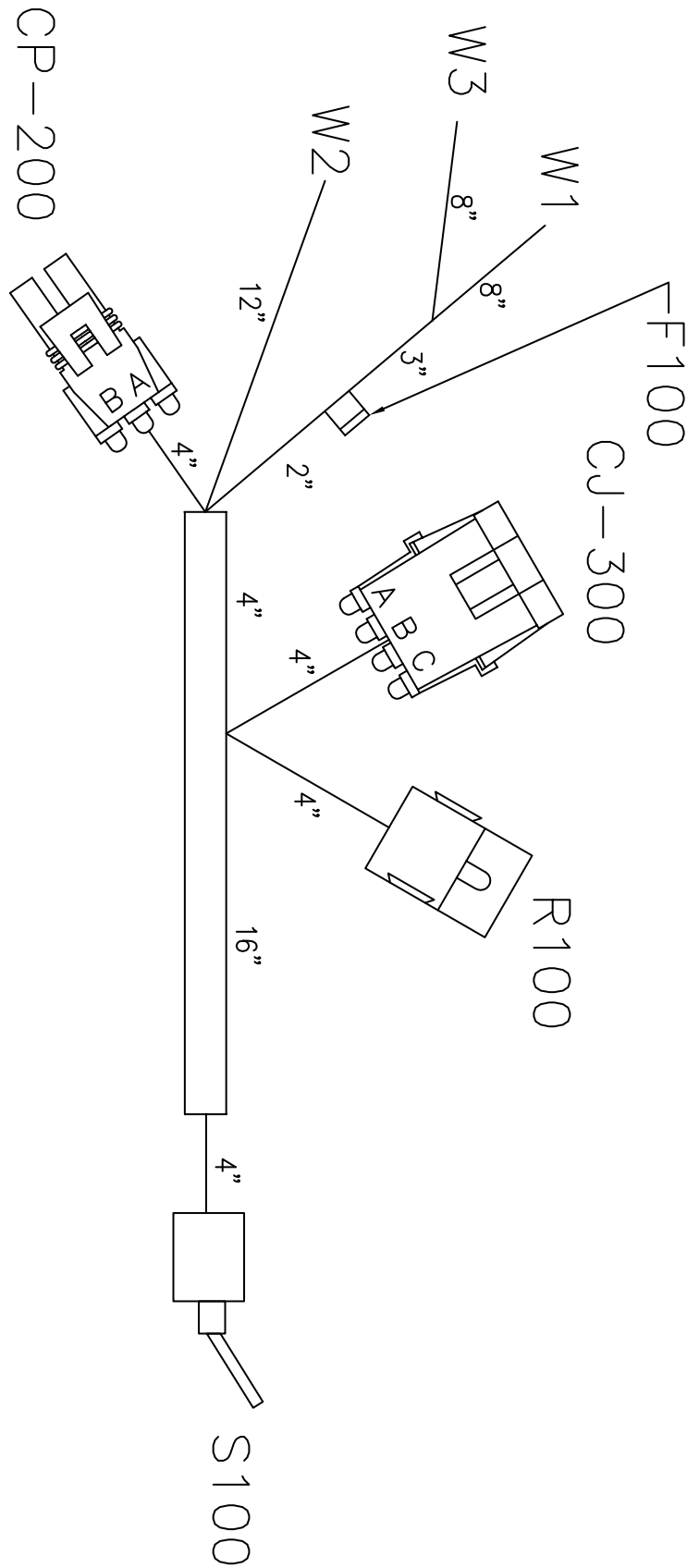
Harness, LED Boom Tip Jumper (77441689)



77441689-1

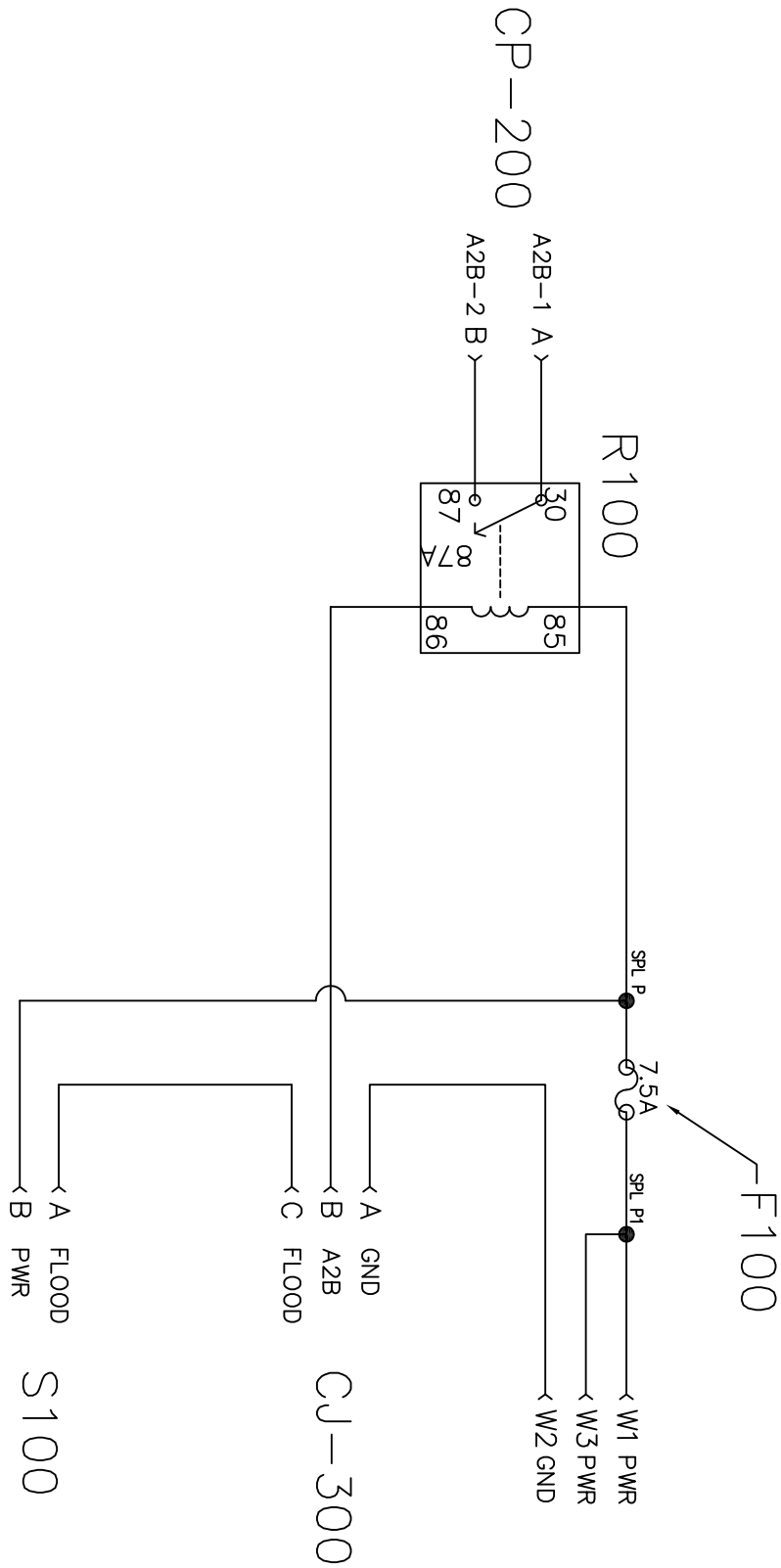


Harness, Light SW A2B CRD Reel (77441674)



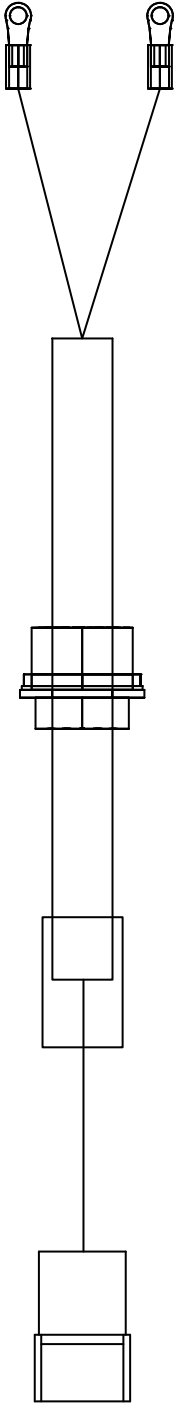
REV. B

77441674-1



NOTE:
SEAL CONTACT 87A OF R100. ALL WIRE WHITE GXL. INCLUDE WASHER AND NUT FOR S100 SWITCH.

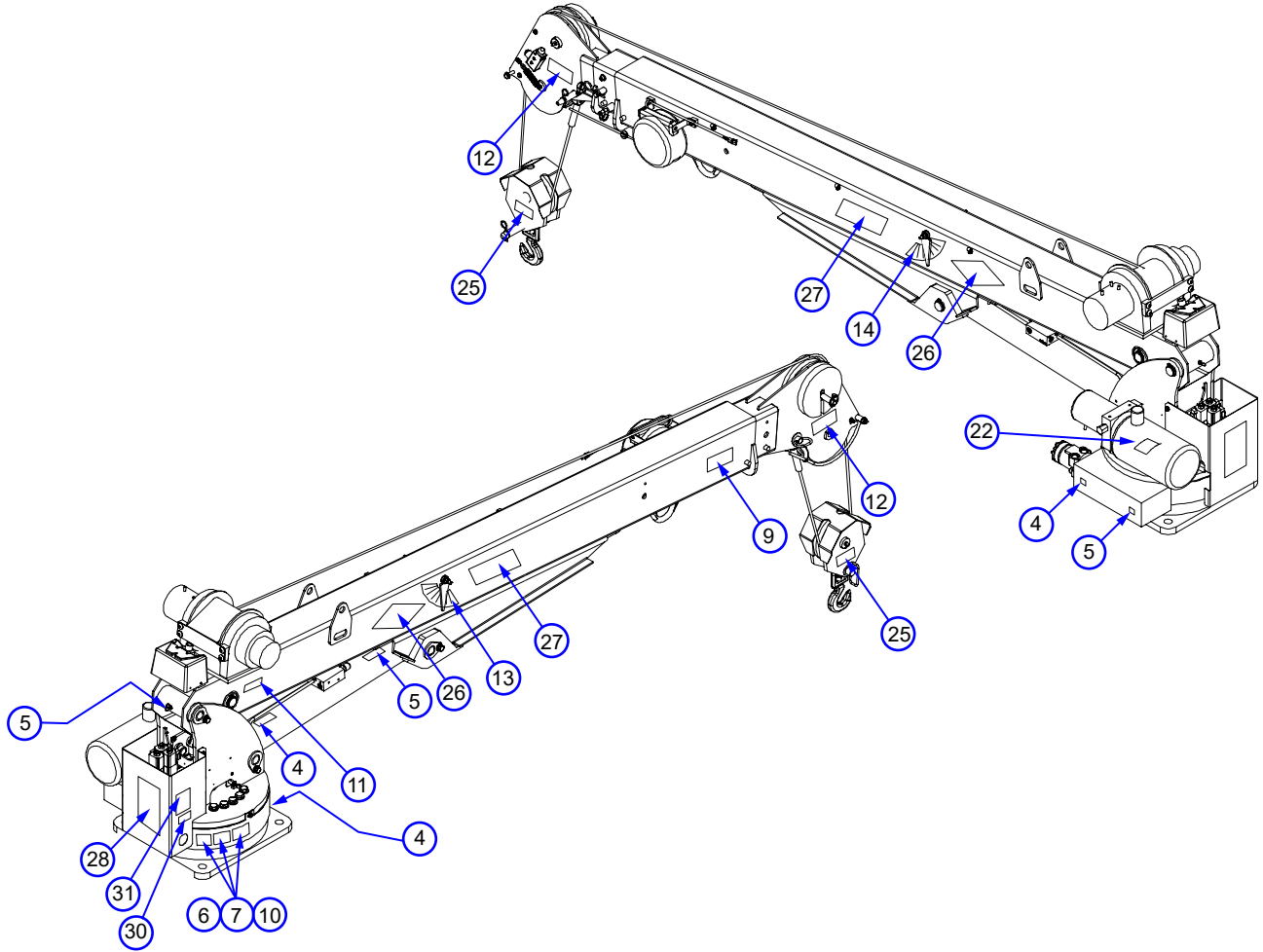
Harness, Limit Switch Jumper (77441678)



Section 5

General Information

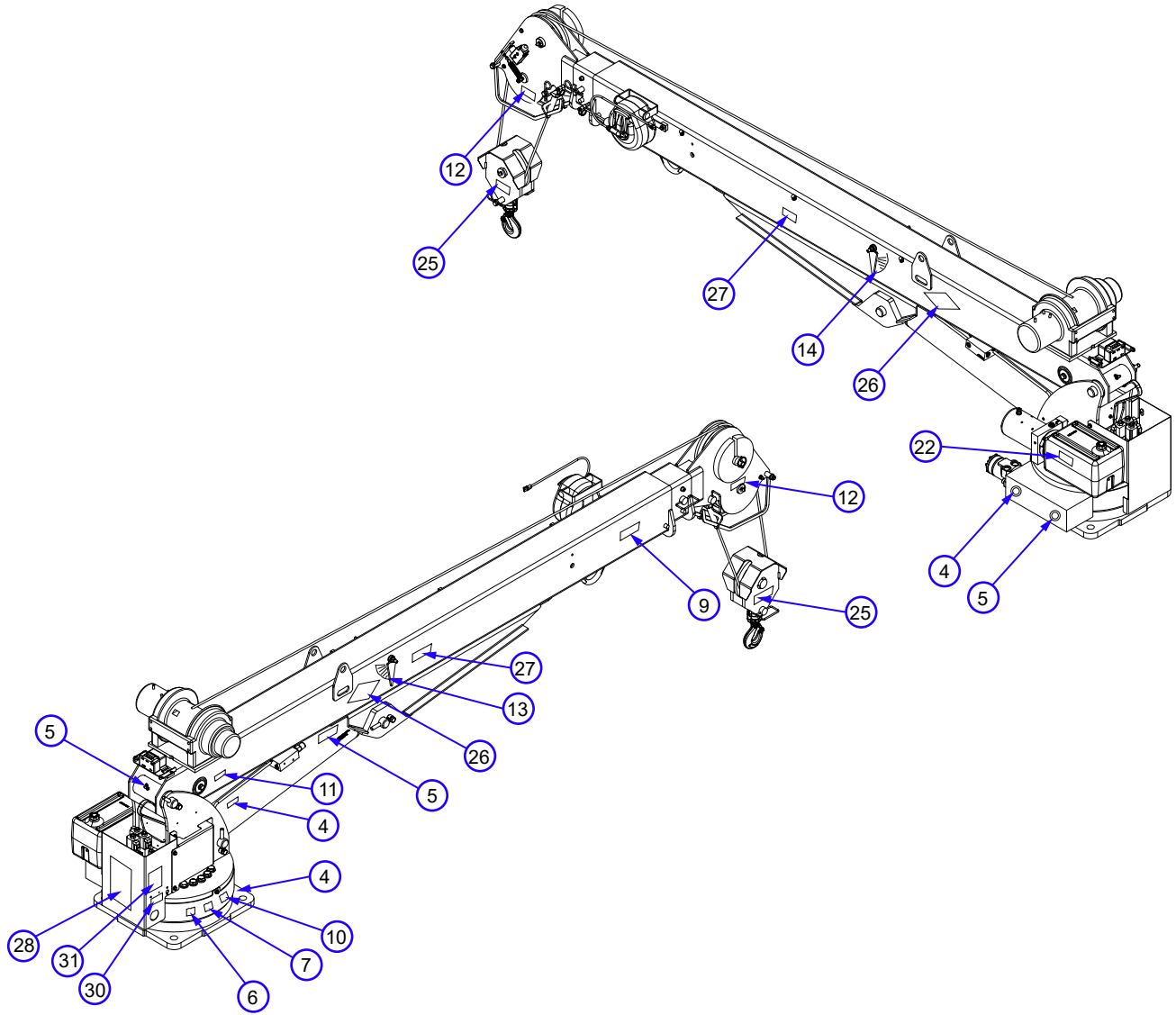
5005i Decal Installation (99904470)



99904470 PARTS LIST

DECAL PLACEMENT (IF NOT SHOWN ON CRANE)					
ITEM NO.	PLACEMENT				
15, 21, 23, 24, 28, 29	AT OR NEAR REMOTE HANDLE STORAGE POINT				
16	2 ON REAR OUTRIGGERS				
19	AT OR NEAR DRIVELINE				
18, 20	ON SIDES AND REAR OF CARRIER VEHICLE				
32	ON CRANE POWER CABLE CONNECTION AT VEHICLE BATTERY				
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY IN KIT	QTY ON CRANE
1.	95719347	DECAL KIT - TELE COMMON			1
2.	95719348	DECAL KIT - BODY COMMON			1
3.	95721548	DECAL KIT - 5005I SPECIFIC			1
4.	70391612	DECAL-GREASE WEEKLY (LEFT)	1	9	0
5.	70391613	DECAL-GREASE WEEKLY (RIGHT)	1	6	0
6.	70392399	DECAL-LUBRICATE WORM	1	1	1
7.	70392524	DECAL-ROTATE CRANE WHILE GREAS	1	1	1
8.	70394166	DECAL-INSTR FOR MNL OPERATION	1	1	0
9.	70394443	DECAL-DANGER FREEFALLING BOOMS	1	1	1
10.	70395090	DECAL-GREASE WORM DR BRNGS	1	1	1
11.	70395324	DECAL-ASME/ANSI B30.5-TELESCOP	1	1	1
12.	70395670	DECAL-CAUTION DOWN HAUL WT	1	2	2
13.	71391522	DECAL-ANGLE INDICATOR RH	1	1	0
14.	71391523	DECAL-ANGLE INDICATOR LH	1	1	0
15.	70392213	DECAL-CAUTION DONT WASH/WAX	1	1	1
16.	70392864	DECAL-WARNING STAB STAND CLEAR	2	4	2
17.	70391598	DECAL-WARNING, MAN STAB	2	2	0
18.	70392868	DECAL-DANGER CR LOADLINE (TRK)	2	4	3
19.	70392891	DECAL-DANGER DRIVELINE	2	1	1
20.	70394445	DECAL-DANGER ELEC HZD LG TELES	2	4	3
21.	70396613	DECAL-CRANE SAFETY & OPER	2	1	1
22.	70394189	DECAL-MOBIL OIL RESERVOIR	2	1	1
23.	71039134	DECAL-CAUTION OIL LEVEL	2	1	1
24.	70392982	DECAL-SERVICE & REPAIR	2	1	1
25.	71394081	DECAL-LOAD BLOCK RATING 2.0TON	3	2	2
26.	70392887	DECAL-DIAMOND IMT 5X10	3	2	2
27.	70397150	DECAL-5005I ID	3	2	2
28.	70397492	DECAL-CAPACITY CHART 5005I	3	2	2
29.	70397334	DECAL-WARNING, ELEC CR OL	3	1	1
30.	70397351	DECAL-REMOTE PENDANT STORAGE	3	1	1
31.	70397404	DECAL-DANGER, UNPLUG CRANE	3	2	2
32.	70397405	DECAL-CRANE POWER DISCONNECT	3	1	1
NEW 20080710					

6006i Decal Installation (99906384)

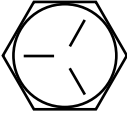

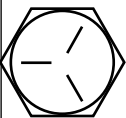
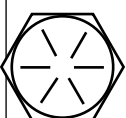


99906384 PARTS LIST

DECAL PLACEMENT (IF NOT SHOWN ON CRANE)					
ITEM NO.	PLACEMENT				
15, 21, 23, 24, 28, 29	AT OR NEAR REMOTE HANDLE STORAGE POINT				
16	2 ON REAR OUTRIGGERS				
19	AT OR NEAR DRIVELINE				
18, 20	ON ALL FOUR SIDES OF CARRIER VEHICLE				
32	ON CRANE POWER CABLE CONNECTION AT VEHICLE BATTERY				
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY IN KIT	QTY ON CRANE
1.	95719347	DECAL KIT - TELE COMMON			1
2.	95719348	DECAL KIT - BODY COMMON			1
3.	95721549	DECAL KIT - 6006I SPECIFIC			1
4.	70391612	DECAL-GREASE WEEKLY (LEFT)	1	9	0
5.	70391613	DECAL-GREASE WEEKLY (RIGHT)	1	6	0
6.	70392399	DECAL-LUBRICATE WORM	1	1	1
7.	70392524	DECAL-ROTATE CRANE WHILE GREAS	1	1	1
8.	70394166	DECAL-INSTR FOR MNL OPERATION	1	1	0
9.	70394443	DECAL-DANGER FREEFALLING BOOMS	1	1	1
10.	70395090	DECAL-GREASE WORM DR BRNGS	1	1	1
11.	70395324	DECAL-ASME/ANSI B30.5-TELESCOP	1	1	1
12.	70395670	DECAL-CAUTION DOWN HAUL WT	1	2	2
13.	71391522	DECAL-ANGLE INDICATOR RH	1	1	0
14.	71391523	DECAL-ANGLE INDICATOR LH	1	1	0
15.	70392213	DECAL-CAUTION DONT WASH/WAX	1	1	1
16.	70392864	DECAL-WARNING STAB STAND CLEAR	2	4	2
17.	70391598	DECAL-WARNING, MAN STAB	2	2	0
18.	70392868	DECAL-DANGER CR LOADLINE (TRK)	2	4	3
19.	70392891	DECAL-DANGER DRIVELINE	2	1	1
20.	70394445	DECAL-DANGER ELEC HZD LG TELES	2	4	3
21.	70396613	DECAL-CRANE SAFETY & OPER	2	1	1
22.	70394189	DECAL-MOBIL OIL RESERVOIR	2	1	1
23.	71039134	DECAL-CAUTION OIL LEVEL	2	1	1
24.	70392982	DECAL-SERVICE & REPAIR	2	1	1
25.	71394081	DECAL-LOAD BLOCK RATING 2.0TON	3	2	2
26.	70392887	DECAL-DIAMOND IMT 5X10	3	2	2
27.	70396781	DECAL-6006I ID	3	2	2
28.	70397493	DECAL-CAPACITY CHART 6006I	3	2	2
29.	70397334	DECAL-WARNING, ELEC CR OL	3	1	1
30.	70397351	DECAL-REMOTE PENDANT STORAGE	3	1	1
31.	70397404	DECAL-DANGER, UNPLUG CRANE	3	2	2
32.	70397405	DECAL-CRANE POWER DISCONNECT	3	1	1

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Thread Torque Charts - Metric

FINE THREAD TORQUE CHART (METRIC)						COURSE THREAD TORQUE CHART (METRIC)					
SIZE (DIA-TPI)	BOLT DIA. (IN)	GRADE 5		GRADE 8		SIZE (DIA-TPI)	BOLT DIA. (IN)	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					

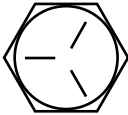

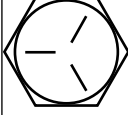

NOTES:

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.

Thread Torque Charts - Imperial

FINE THREAD TORQUE CHART (IMPERIAL)						COURSE THREAD TORQUE CHART (IMPERIAL)					
		GRADE 5		GRADE 8				GRADE 5		GRADE 8	
											
SIZE	BOLT DIA.	SAE J429 GRADE 5		SAE J429 GRADE 8		SIZE	BOLT DIA.	SAE J429 GRADE 5		SAE F429 GRADE 8	
(DIA-TPI)	(IN)	PLAIN FT-LB	PLATED FT-LB	PLAIN FT-LB	PLATED FT-LB	(DIA-TPI)	(IN)	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.

Turntable Bearing Inspection

Turntable bearings may experience wear. One of the following conditions may indicate turntable bearing wear:

1. Metal particles present in the bearing lubricant.
2. Increased drive power required to rotate the crane.
3. Noise emitting from the bearing during rotation.
4. Rough rotation.
5. Uneven or excessive wear between the pinion gear and turntable gear.

If one or more of the above conditions exists, further inspection may be required. Limits are measured in "TILT" which is dependent on the internal clearances of the bearing. TILT is the most practical determination of a bearings' internal clearance once mounted on a crane. You can measure the tilt using the Turntable Bearing Tilt Test. (see "Turntable Bearing Tilt Test" listed below)

Periodic readings indicating a steady increase in TILT may be an indicator of bearing wear. Note that a bearing found to have no raceway cracks or other structural irregularities should be reassembled and returned to service.

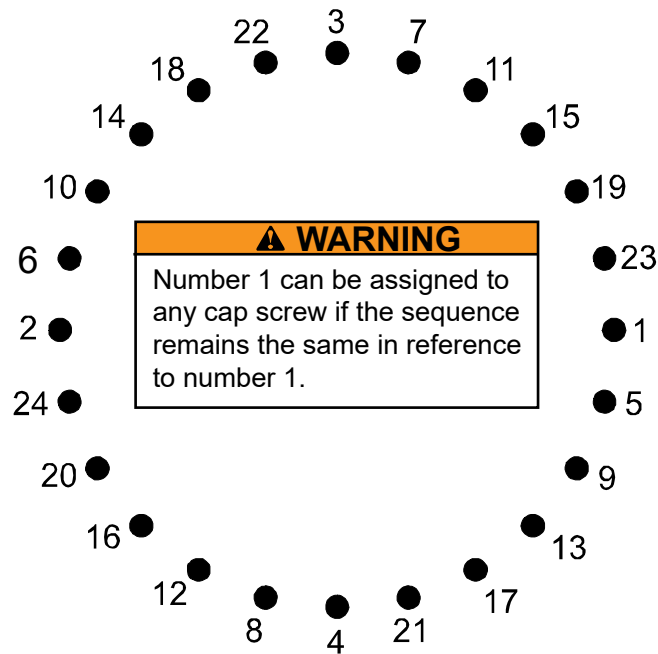
Turntable Bearing Tilt Test

1. Place crane in vertical position.
2. Set a dial indicator at 0 on the pinion cover plate at back side of mast.
3. Lower crane to the horizontal position.
4. Check and record the dial indicator change. It should not exceed the tilt measurement noted in the chart below.
5. Return the crane to the vertical position. The dial indicator should return to 0.

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.

Turntable Bearing Thread Tightening



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 on crane model

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.
3. Torque all cap screws to approximately 40% of the specified torque value by following the sequence examples:

- .40 X 265 ft-lb = 106 ft-lb.
- .40 X 36 kg-m = 14.4 kg-m.

4. Repeat step 3 torquing all cap screws to 75% of the specified torque value. Continue to follow the tightening sequence examples:

- .75 X 265 ft-lb = 199 ft-lb.
- .75 X 36 kg-m = 27 kg-m.

5. Using the proper sequence, torque all cap screws to the listed torque value as determined from the Torque Data Chart.



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