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Manual # 99906314

Series III Telescopic Cranes Models: 6000, 7500 & 8600 22' Parts & Specifications

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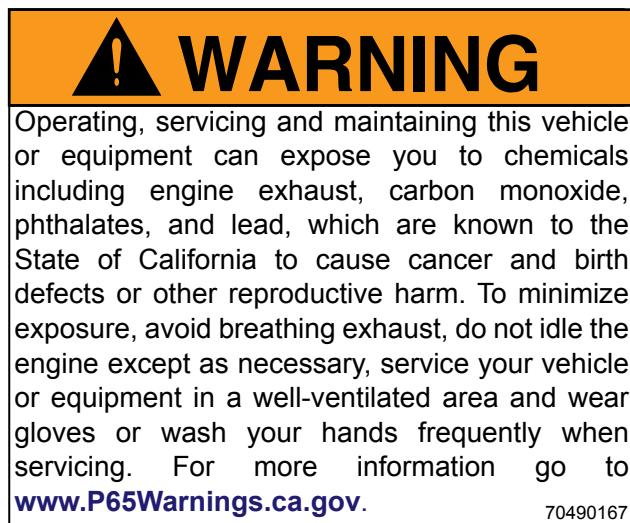


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Section - 1

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

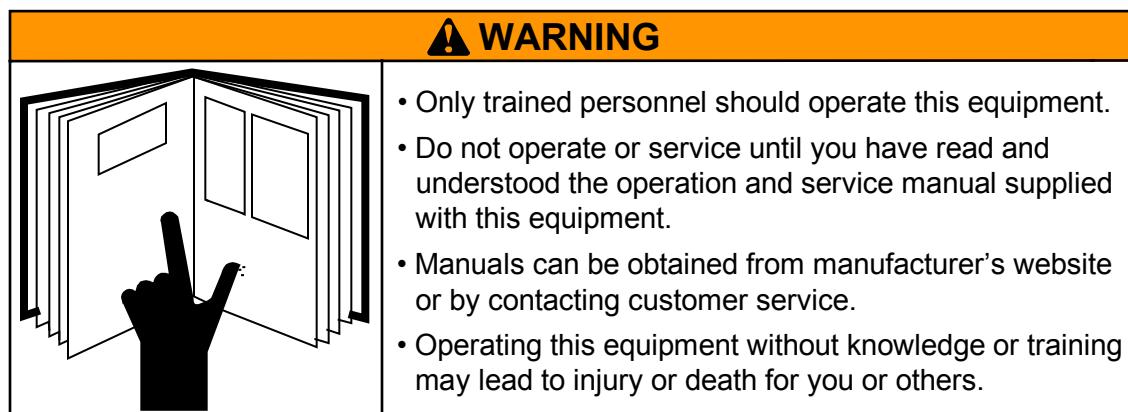
Prior to using any of the equipment installed on or incorporated in the IMT Crane Body Mechanics Truck, you must:

- 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.



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.

Section - 2

Specifications

Specifications

GENERAL SPECIFICATIONS		6000	7500	8600
CRANE RATING*		39,000 ft-lb (5.9 tm)	47,000 ft-lb (6.5 tm)	52,000 ft-lb (7.2 tm)
HORIZONTAL REACH-FLIP SHEAVE UP (From Centerline Of Rotation)			22'-6" (6.9 m)	
HORIZONTAL REACH - FLIP SHEAVE DOWN (From Centerline Of Rotation)			21' 8" (6.6 m)	
FULLY RETRACTED LENGTH			11'-11" (3.6 m)	
HYDRAULIC EXTENSIONS (2)			60" (152 cm) 57" (145 cm)	
LIFTING HEIGHT (From Base Of Crane)			23'-10" (7.3 m)	
CRANE WEIGHT	1785 lb (810 kg)	1,795 lb (814 kg)	1,825 lb (828 kg)	
CRANE STORAGE HEIGHT		40.6" (103 cm)		
MOUNTING SPACE REQUIRED (Crane Base)		20" x 21" (50.8 cm x 53.3 cm)		
OPTIMUM PUMP CAPACITY		10 U.S. gpm (37.9 L/min)		
SYSTEM OPERATING PRESSURE		3200 psi (221 Bar)		
CENTER OF GRAVITY:				
Horizontal from Centerline of Rotation		42" (106.7 cm)		
Vertical from bottom of crane base.		19.6" (49.8 cm)		
TIE-DOWN BOLT PATTERN (8 bolts)		14.75" x 14.75" (37.5 cm x 37.5 cm)		
ROTATIONAL TORQUE		9,000 ft-lb (1.2 tm)		
ROTATION		400° (30 seconds)		
LOWER BOOM ELEVATION		-10° TO +80° (12 seconds to extend or retract)		
EXTENSION CYLINDERS (2)		60" & 57" (33 seconds to raise or lower)		
WINCH SPEED (Single Line)		60 Feet per minute		
CHASSIS STYLE		Conventional Cab		
BODY STYLE		DOMINATOR™ I or II		
CAB-TO-AXLE (1)		60-120" (152-305 cm)	84-120" (213-305 cm)	
RESISTANCE TO BENDING MOMENT		600,000 in-lb	1,200,000 in-lb	
FRAME SECTION MODULUS- MINIMUM		14.2 cubic inches (232.7 cc)		
GROSS VEHICLE WEIGHT RATING (See Note 2)		15,000 lb (6805 kg) minimum (Dominator I application) 26,000 lb (11,793 kg) minimum (Dominator II application)		

*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.

6000, 7500, 8600 SPECIFICATIONS (CONTINUED)

POWER SOURCE

PTO DRIVEN - Integral mounted hydraulic pump and PTO application. Other standard power sources may be used. Minimum power required is 23.5 horsepower based on 10-12 gpm (37.9 - 45.4 L/min) at 3200 psi (221 bar)

CYLINDER HOLDING VALVES

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

ROTATION SYSTEM

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

HYDRAULIC SYSTEM (PTO DRIVEN)

The hydraulic system is an open-centered, full-pressure system that requires 10-12 gpm (37.9 - 45.4 L/min.) optimum oil flow at 3200 psi (221 bar). It is equipped with a four-section, stack-type, electric, remote control valve with an RF remote-control system with a 30' (9.1 m) radio elimination cable. The system includes a separate hydraulic oil reservoir, suction line filter, 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

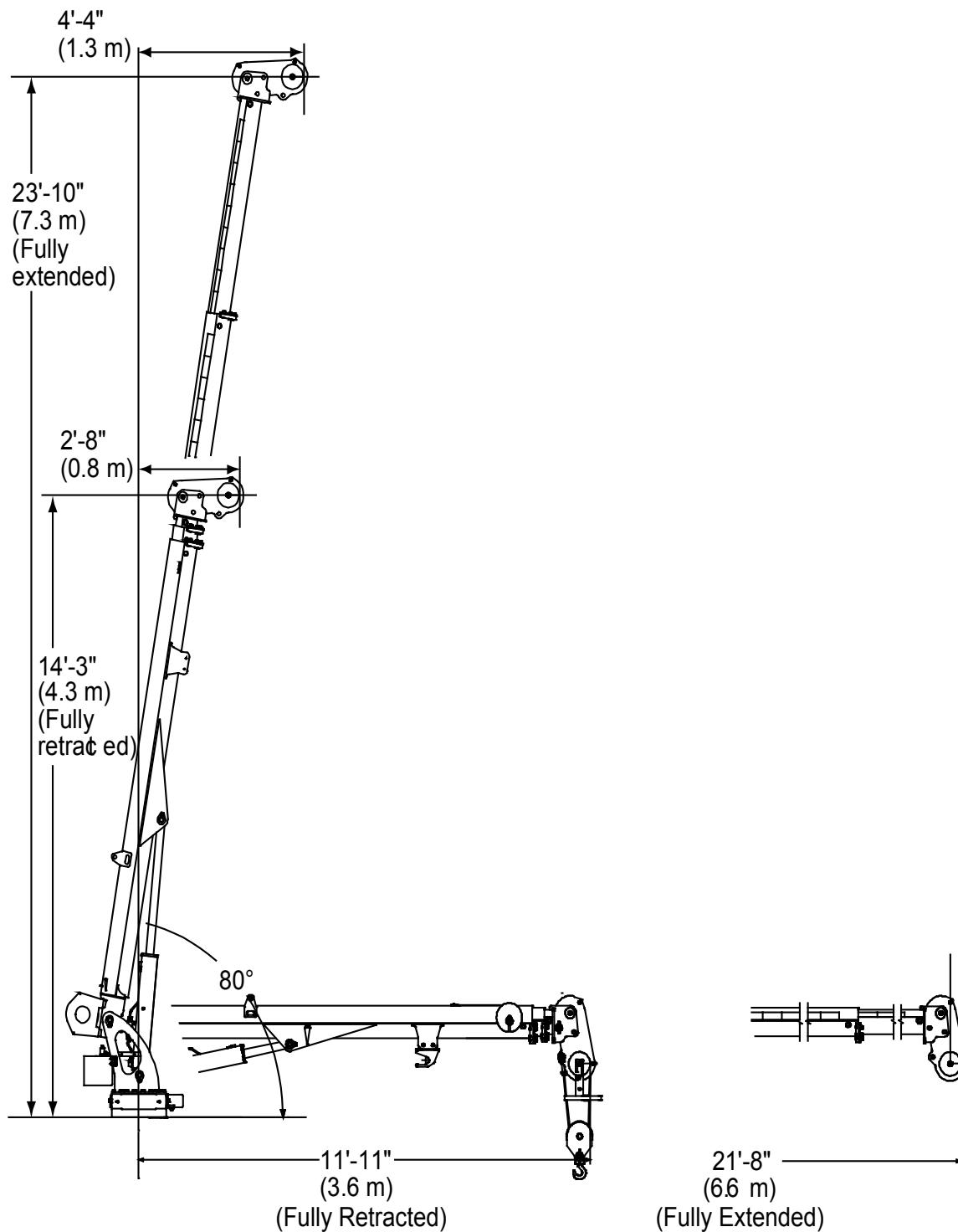
The 4,300 lb (1,950 kg) planetary winch is powered using a high-torque hydraulic motor. The lifting capacity of the winch is 4,300 lb (1,950 kg) one-part line. Maximum two-part line capacity is based on the maximum crane capacity. The winch is equipped with 85 ft (25.9 m) of 3/8" (9.5 mm), 6X25 FW PRF RRL IWRC XIPS 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:

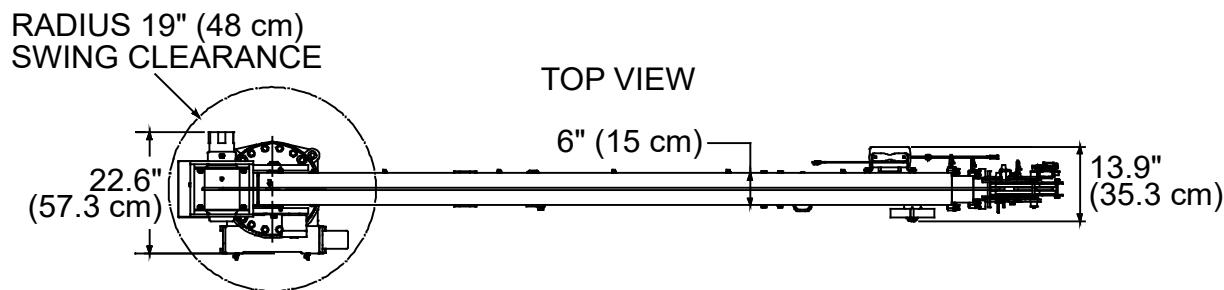
1. THE CAB TO AXLE (CA) DIMENSION VARIES BASED ON THE CONFIGURATION OF THE BODY, CRANE, AND AUXILIARY EQUIPMENT INCLUDING WELDER DECKS. MAKE SURE THE CA IS FREE AND CLEAR FROM OBSTRUCTIONS EVERYWHERE EXCEPT BETWEEN THE FRAME RAILS.
2. THE GROSS VEHICLE WEIGHT RATING (GVW) IS A MINIMUM GUIDELINE. CONTACT 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, CRANE AND BODY COMBINATIONS MUST BE STABILITY-TESTED PER ANSI B30.5 REQUIREMENTS.

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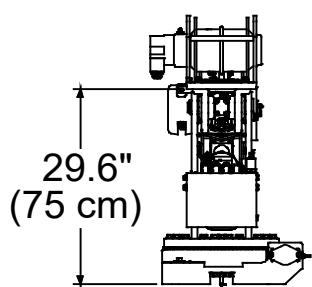
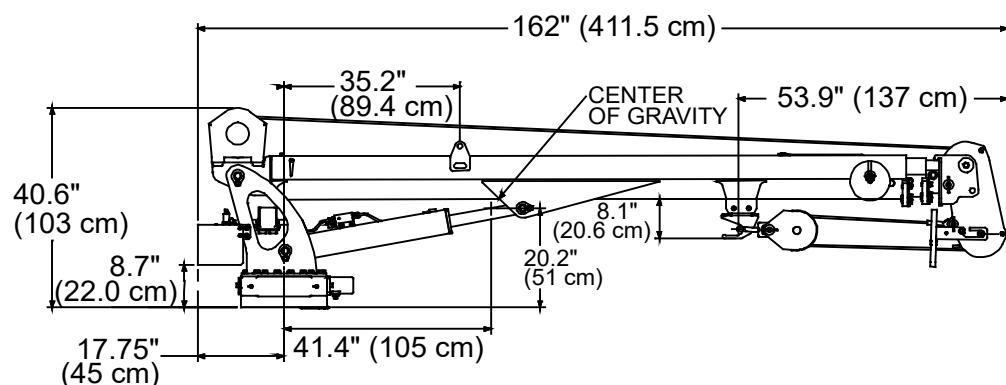
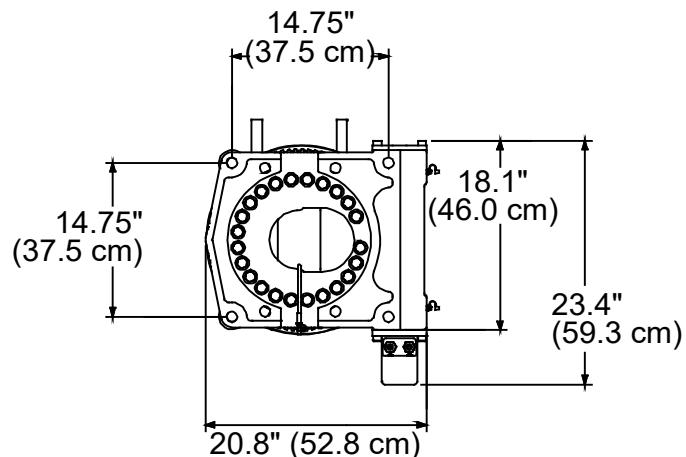
Dimensional Drawings



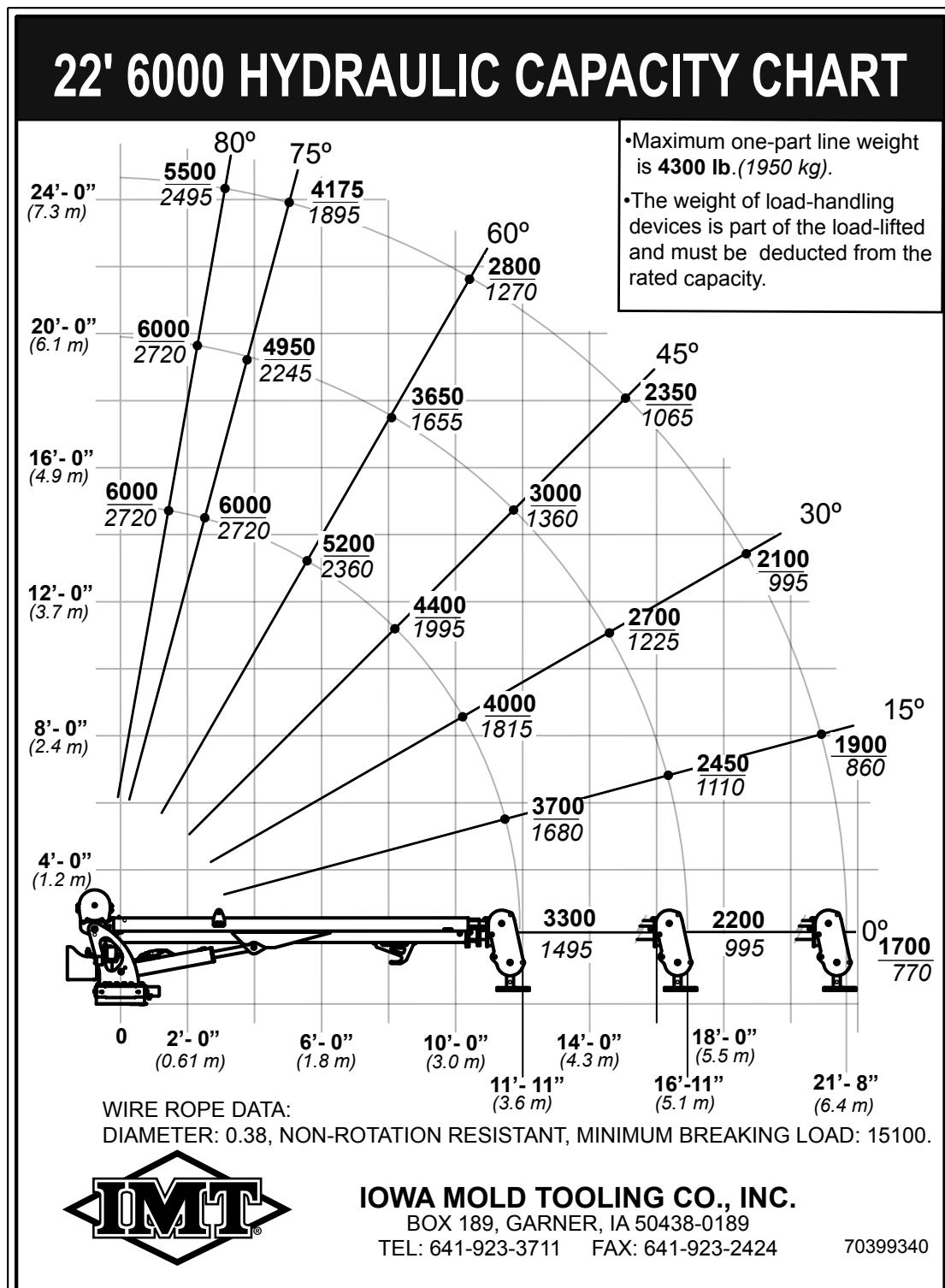
Crane Mounting



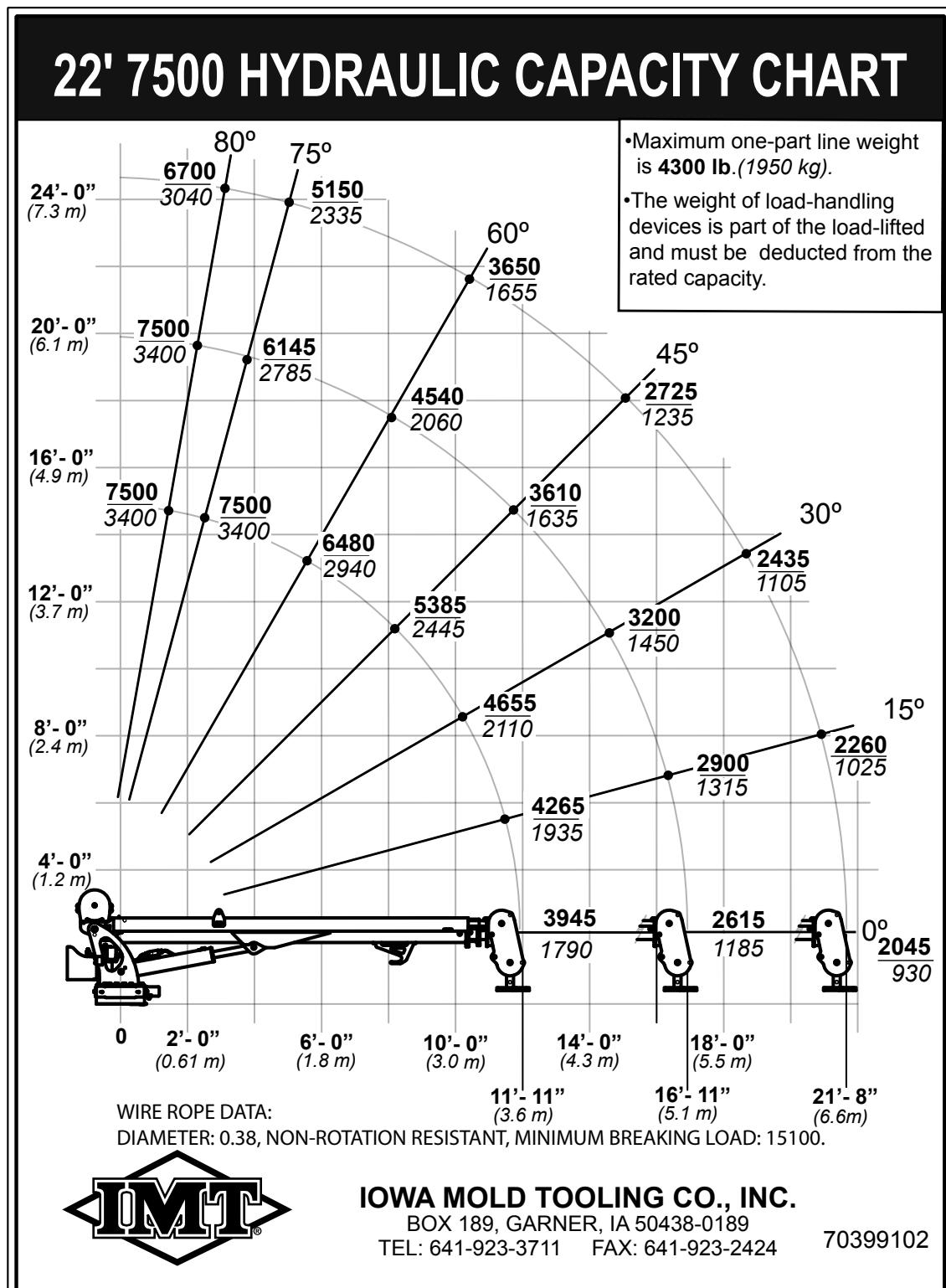
MOUNTING HOLE PATTERN
(FROM BASE OF CRANE)



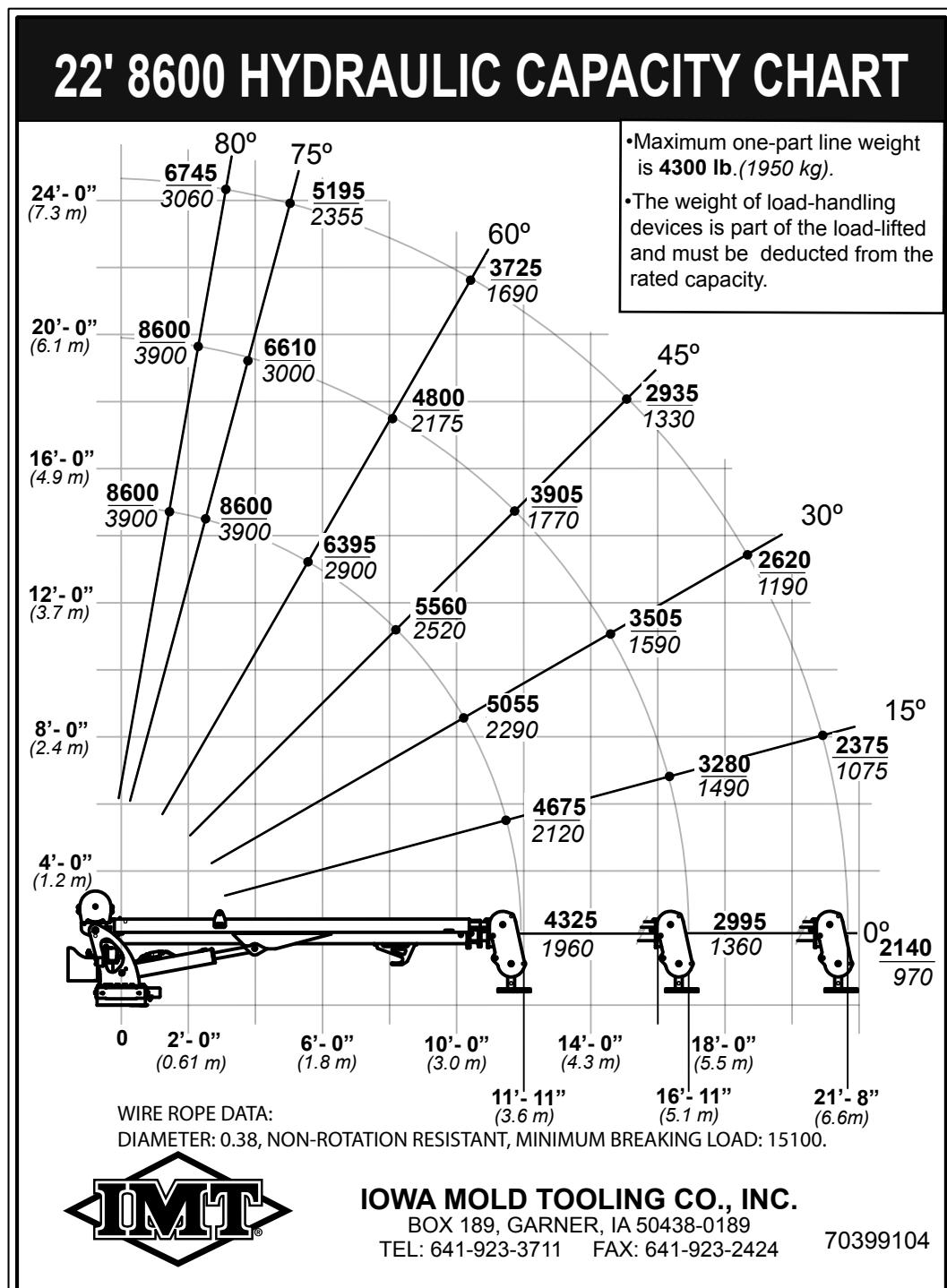
6000 22' - Crane Capacity Load Chart



7500 22' - Crane Capacity Load Chart



8600 22' - Crane Capacity Load Chart



Section - 3

Crane References

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.

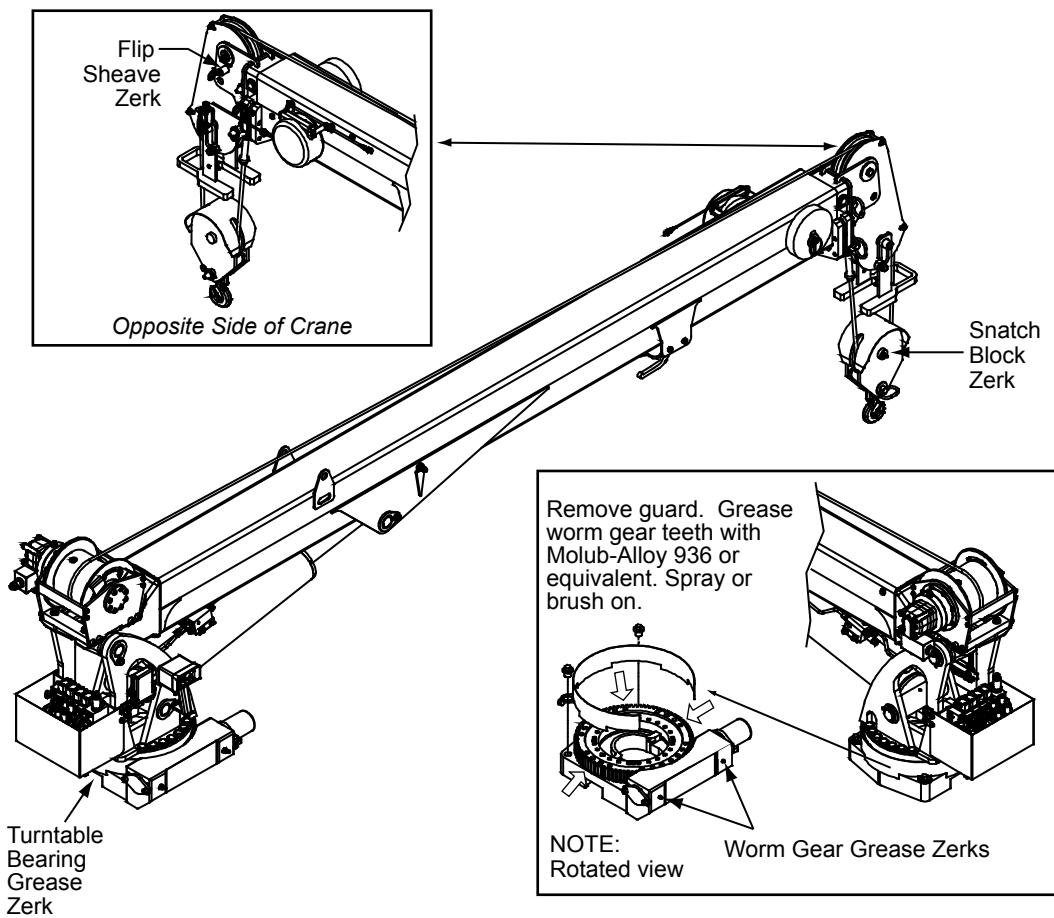


Crane worm gear bearing teeth must be lubricated weekly with lubriplate gear shield extra-heavy or equivalent, applied with a grease gun, caulk gun or brush. Cover all teeth with grease and leave no exposed metal surfaces showing.

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

70392399

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		
Snatch Block Pin			
Lower Sheave			Weekly
Worm Bearings Grease Zerks (*Rotate crane while greasing)	Lithium grease or equivalent	Apply with hand or pneumatic pressure grease gun	
Upper Sheave			
Gear Teeth	GearMate® Super Heavy or equivalent	Brush	
Worm Gear	GearMate® Super Heavy or equivalent	Apply with hand or pneumatic pressure grease gun	Weekly

Crane Recommended Spare Parts List

This parts list is intended to provide the user with parts sufficient to keep the units operating with minimal down-time. Parts not listed are considered 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
72601949	CAP SCR .50-13X 1.25 SH ZINC	2
72060177	CAP SCR .62-11X 3.00 HH GR8 Z	19
BOOM ASSEMBLY		
60030433	WEAR PAD-RC 0.19 X 6.00X 4.00	1
60030339	WEAR PAD-RND 0.19X 2.00X .60X .81	2
60030432	WEAR PAD-RC 0.25 X 6.00X 5.00	1
60030431	WEAR PAD-RC 0.25X 6.00X 1.25	4
60030425	WEAR PAD-RND 0.44X 1.25X .50X .50	2
60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44	4
ANTI-TWO-BLOCK ASSEMBLY		
77041863	LIMIT SWITCH	1
RIGGING COMPONENTS		
52719629	PIN-TYPE MM 1.50X 9.75 (9.19)	2
52723197	PIN-TYPE MM 1.50X 9.75 (9.19)	1
60140913	PIN-PIN-TYPE NN 1.50X 7.25 TYPE NN 1.50X 7.25	1
60140914	PIN-TYPE NN 1.50X10.75	2
70735099	HOOK-SWVL POS LOCK BBRG 5TON	1
70580230	WIRE ROPE ASM-GALV.38(6X25)X85ft XIPS	1
60030134	SHEAVE- 8.00 POLYMER	1
LOWER CYLINDER (51727886 - 8600) (51727885- 7500) (51727884 - 6000)		
94399128	SEAL KIT - 8600	1
94399127	SEAL KIT - 7500	1
94399356	SEAL KIT - 6000	1
EXTENSION CYLINDER (51723174)		
94490492	SEAL KIT	1
WINCH (70570761)		
94744136	SEAL KIT	1
73511057	MOTOR	1
73540620	COUNTERBALANCE VALVE	1
VALVE BANK (73734727)		
94399213	SEAL KIT, CONNECTION BLOCK	1
94399214	SEAL KIT, VALVE SECTIONS	1
77041898	SOLENOID, 12V	1

Installation Introduction

GENERAL

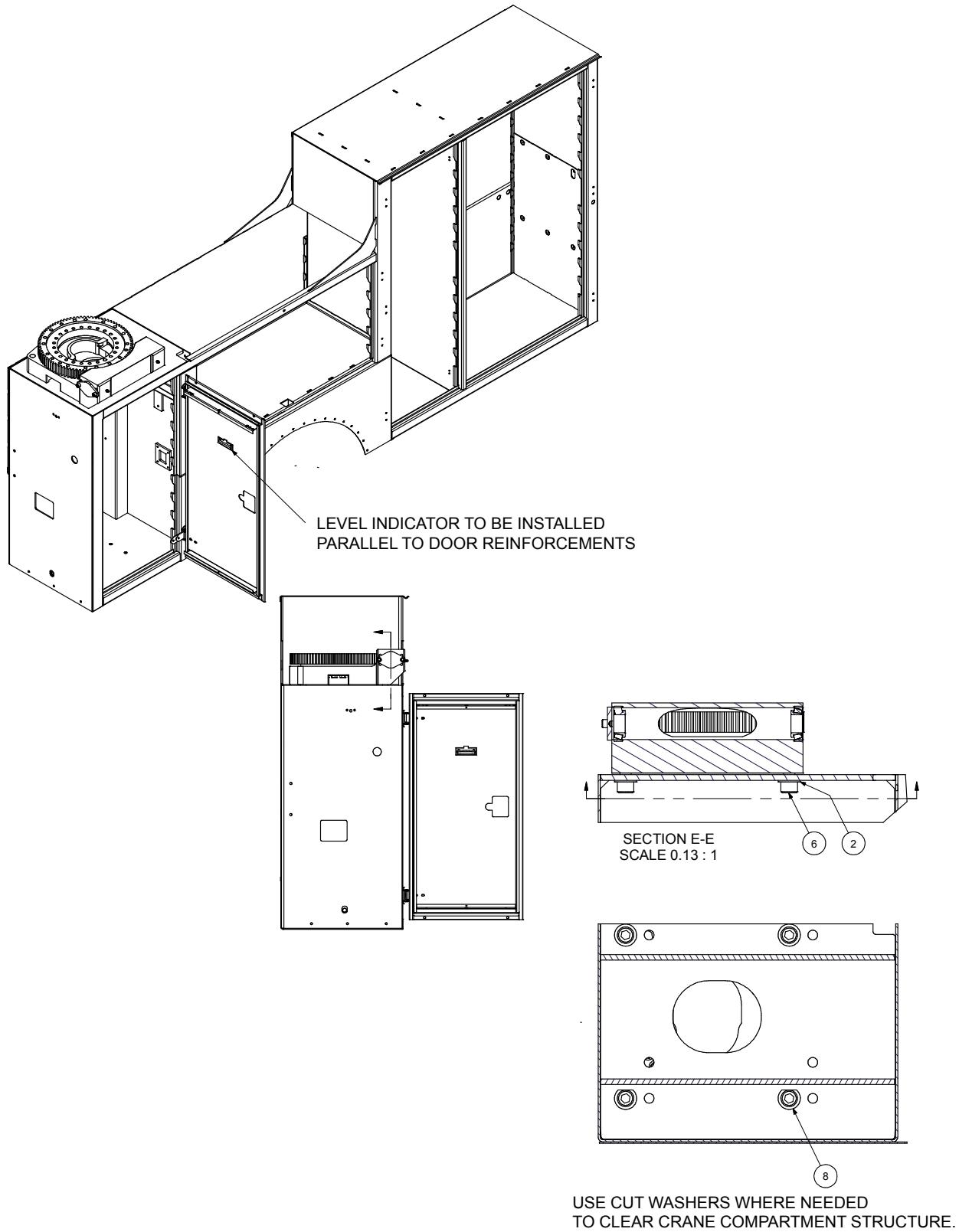
This section contains instructions for the installation of your crane. Prior to installing the crane and hydraulic components, make sure the chassis is ready to receive the crane (see Installation Section of the *IMT Telescopic Crane Operation & Safety Manual*, 99905190).

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 body is designed to take full advantage of the standard reservoir placement. This reservoir is installed in the cargo area of the body. Before attempting to install the crane, the body must be installed on the chassis.

6000, 7500 22' - Crane Installation Kit (99905066)

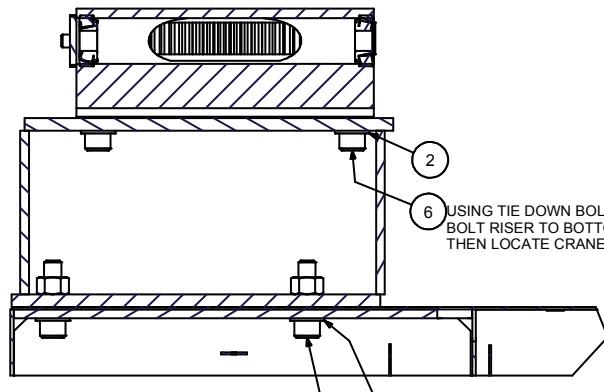
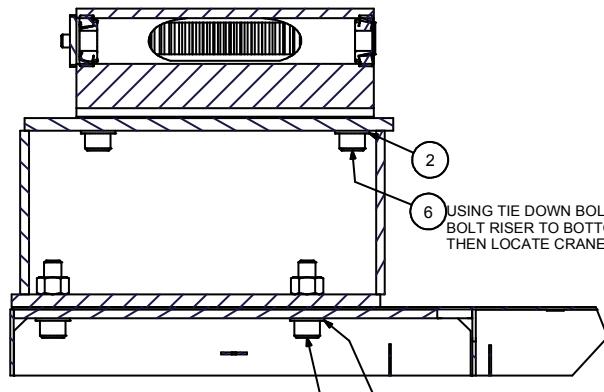
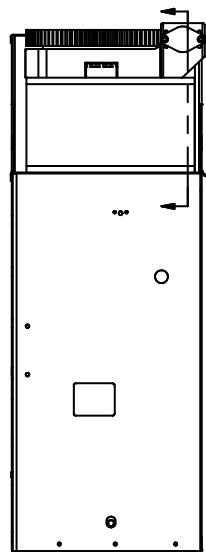
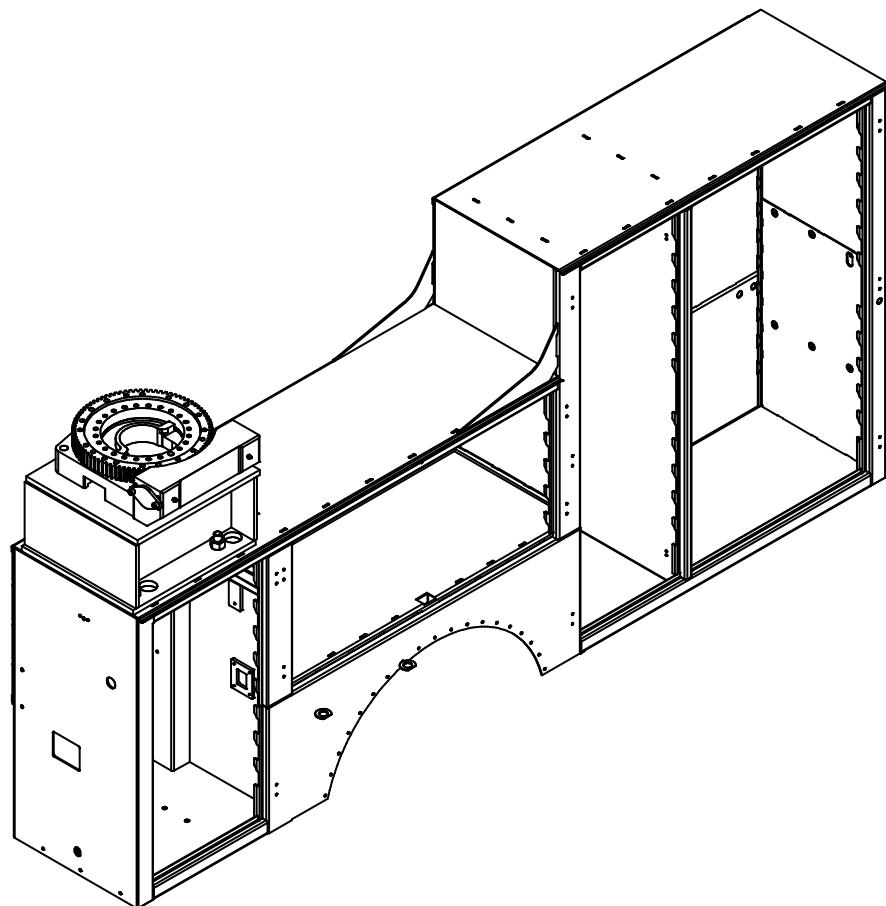
99905066 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	BODY	DOM S3	REF
2.	72063066	WASHER 1.00 FLAT HI STR	AR
3.	72042097	LEVEL INDICATOR LEVEL	1
4.	52720014	RISER-6025 CRANE BASE 11in DOM 2	REF
5.	93713668	INSTL-KIT SERIES III 7500-8600S	1
6.	72602151	CAP SCR 1.00-8X 2.50 SH PLAIN	AR
7.	72062152	CAP SCR 1.00-8X 3.50 SH PLAIN	AR
8.	72063286	WASHER-FLAT 1.00 H ASTM F436 Z-CUT	AR
REV. E			

NOTE:

THE 2.5" 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, OF PROPER LENGTH.

FAILURE TO USE PROPER LENGTH BOLTS MAY CAUSE THE BOLTS UNDER THE CRANE SWING BEARING TO BOTTOM OUT BEFORE TORQUING. INSURE A MINIMUM OF 1-1/2" THREAD ENGAGEMENT.

99905066-1, CRANE INSTALLATION KIT, CONTINUED

SECTION G-G
SCALE 0.13 : 1

6 USING TIE DOWN BOLTS FROM CRANE INSTALL KIT,
BOLT RISER TO BOTTOM OF CRANE BASE.
THEN LOCATE CRANE WITH RISER ONTO BODY.

7 CAP SCREW PASSES UPWARD THROUGH WASHER,
CRANE COMPARTMENT TOP, AND INTO CRANE RISER.
REFER TO CRANE MANUAL FOR SPECIFIC TORQUE REQUIREMENTS.

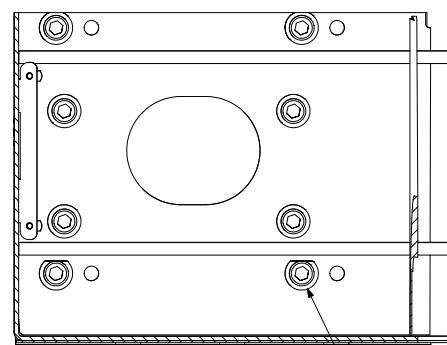
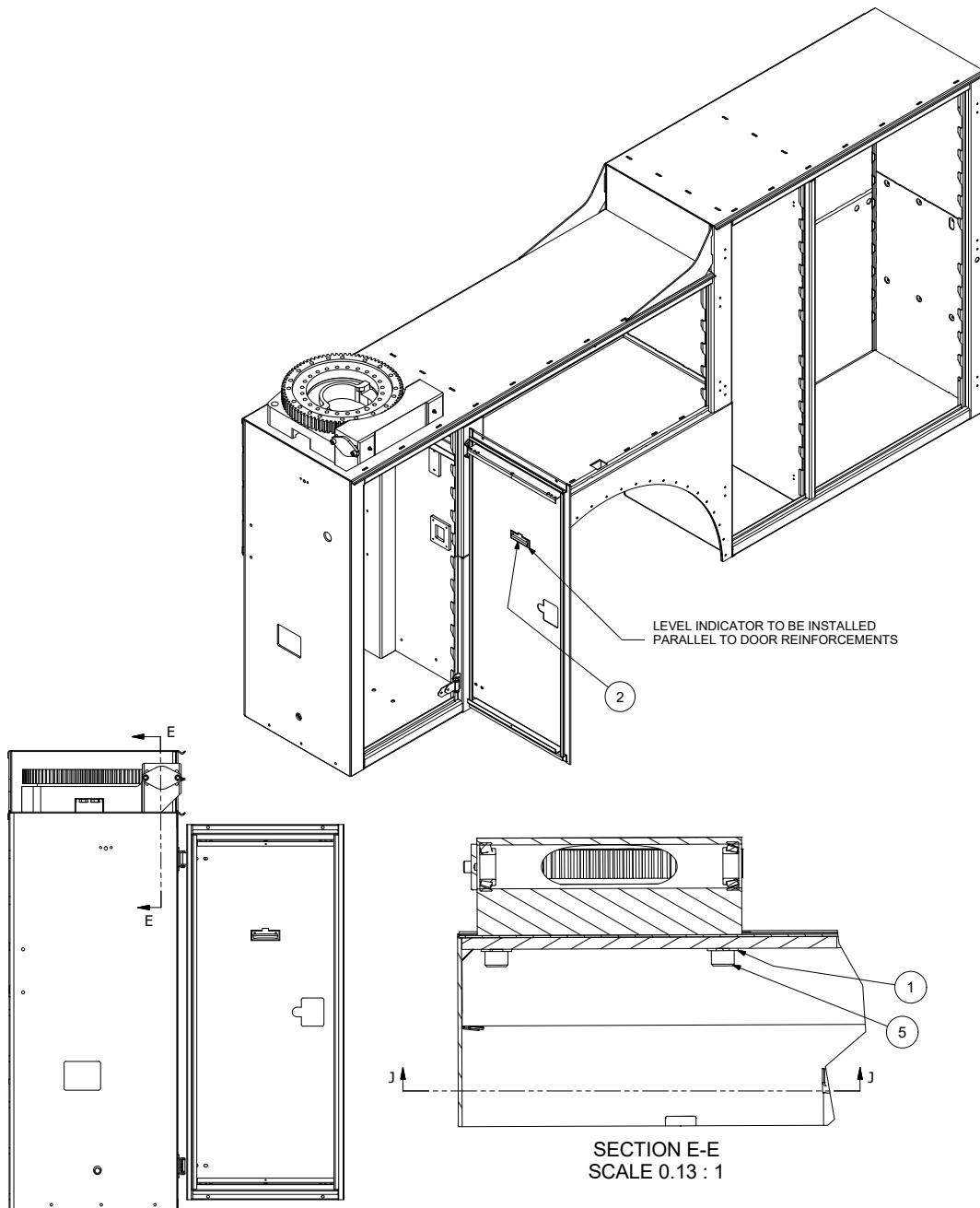
99905066-1 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	BODY	DOM S3	REF
2.	72063066	WASHER 1.00 FLAT HI STR	AR
3.	72042097	LEVEL INDICATOR LEVEL	1
4.	52720014	RISER-6025 CRANE BASE 11in DOM 2	REF
5.	93713668	INSTL-KIT SERIES III 7500-8600S	1
6.	72602151	CAP SCR 1.00-8X 2.50 SH PLAIN	AR
7.	72062152	CAP SCR 1.00-8X 3.50 SH PLAIN	AR
8.	72063286	WASHER-FLAT 1.00 H ASTM F436 Z-CUT	AR
REV. E			

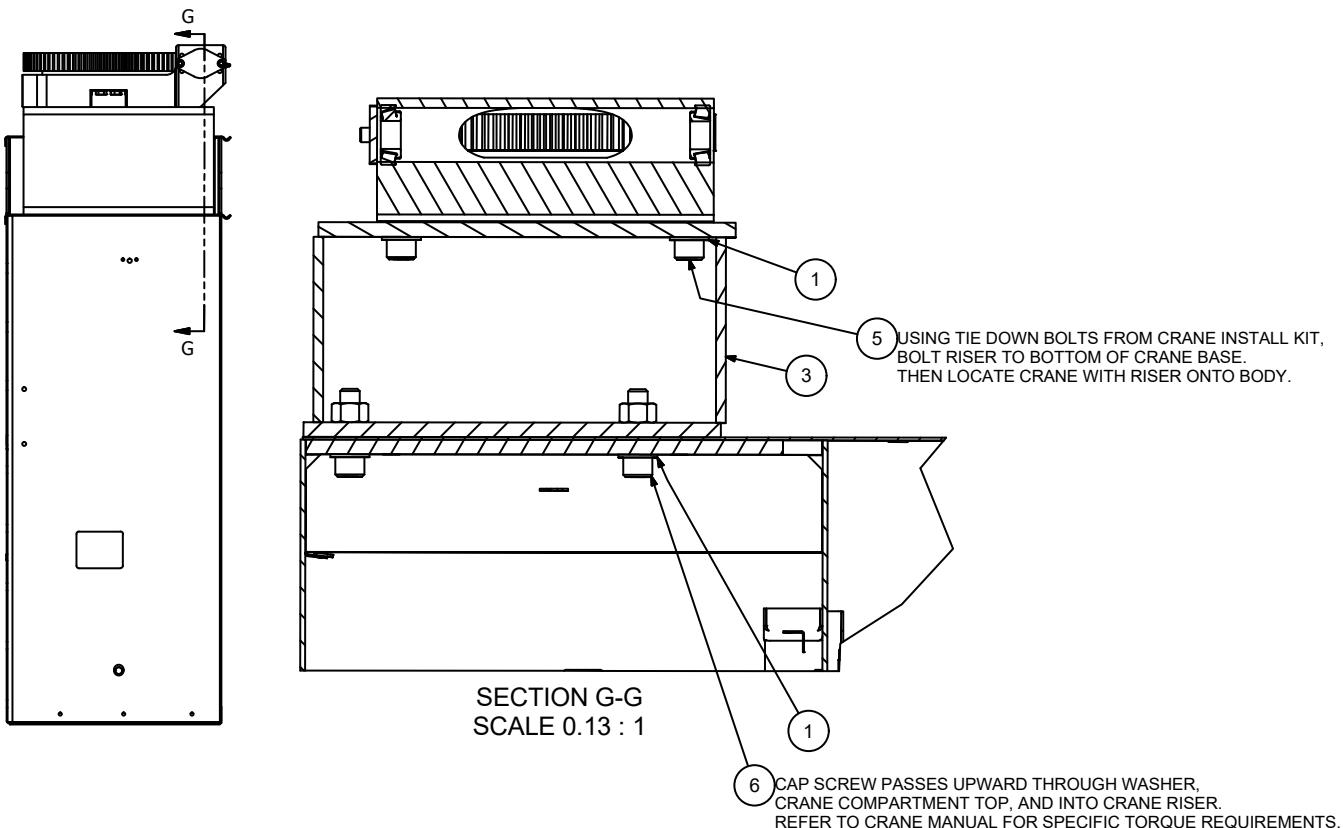
NOTE:

THE 2.5" 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, OF PROPER LENGTH. FAILURE TO USE PROPER LENGTH BOLTS MAY CAUSE THE BOLTS UNDER THE CRANESWING BEARING TO BOTTOM OUT BEFORE TORQUING. INSURE A MINIMUM OF 1-1/2" THREAD ENGAGEMENT.

8600 22' - Crane Installation Kit (99905067)



SECTION J-J
SCALE 0.26 : 1

99905067 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	72063066	WASHER 1.00 FLAT HI STR	AR
2	72042097	LEVEL INDICATOR LEVEL	1
3	52720014	RISER-6025 CRANE BASE 11in DOM 2	REF
4	93713669	INSTL-KIT DS3 -DOM 2 8600S-10000	1
5	72602151	CAP SCR 1.00-8X 2.50 SH PLAIN	AR
6	72602152	CAP SCR 1.00-8X 3.50 SH PLAIN	AR
7	72063286	WASHER-FLAT 1.00 H ASTM F436 Z-CUT	AR

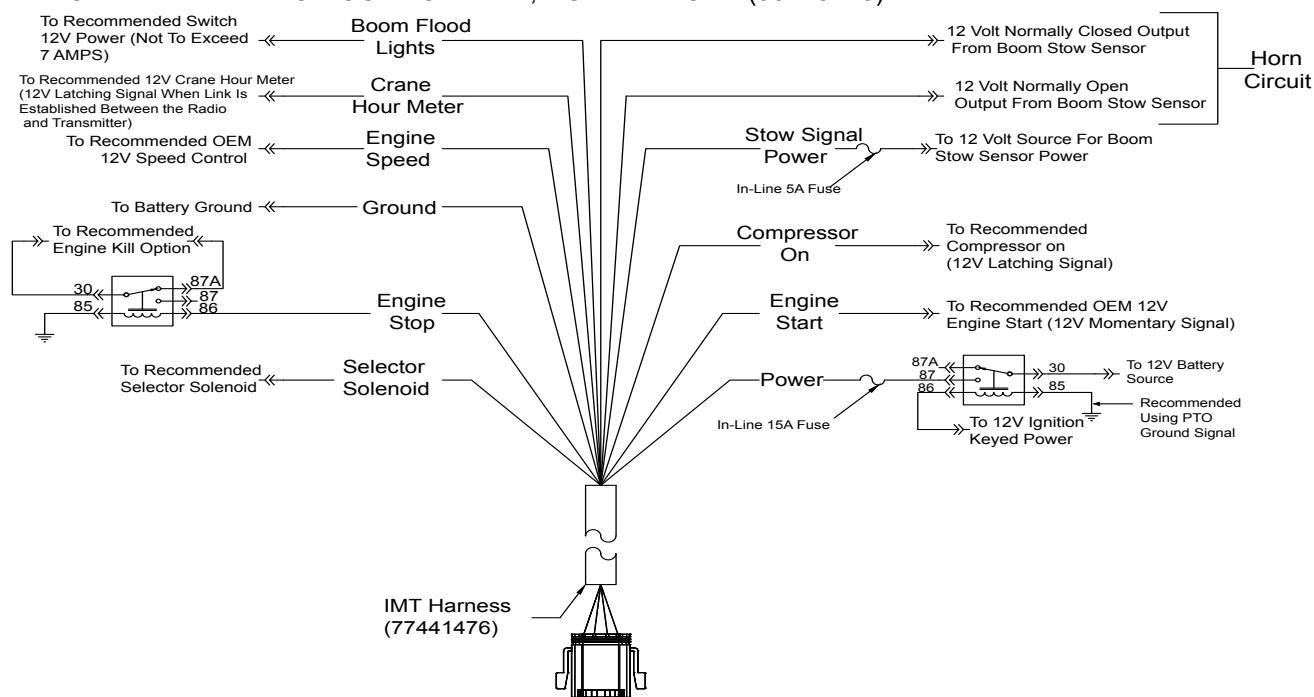
REV. H CN963

NOTES:

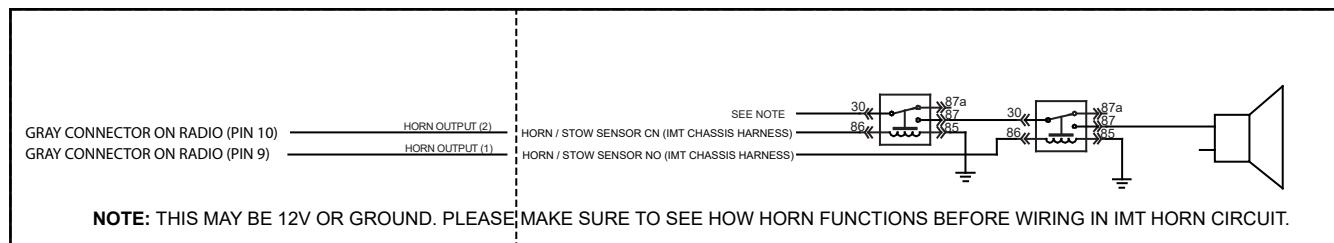
THE 2.5" BOLTS SUPPLIED ARE PART OF THE CRANE INSTALLATION KIT. DETERMINE THE CRANE BOX TOP PLATE THICKNESS PRIOR TO MOUNTING. IF DIFFERENT LENGTH BOLTS ARE REQUIRED, THEY MUST BE 1-8, GRADE 8, ZINC COATED, OF PROPER LENGTH. FAILURE TO USE PROPER LENGTH BOLTS MAY CAUSE THE BOLTS UNDER THE CRANE SWING BEARING TO BOTTOM OUT BEFORE TORQUING. INSURE A MINIMUM OF 1-1/2" THREAD ENGAGEMENT.

Chassis Wiring Harness (77441476 / 99905212)

ADDITIONAL INSTALLATION COMPONENTS, NON-IMT BODY (93713748)



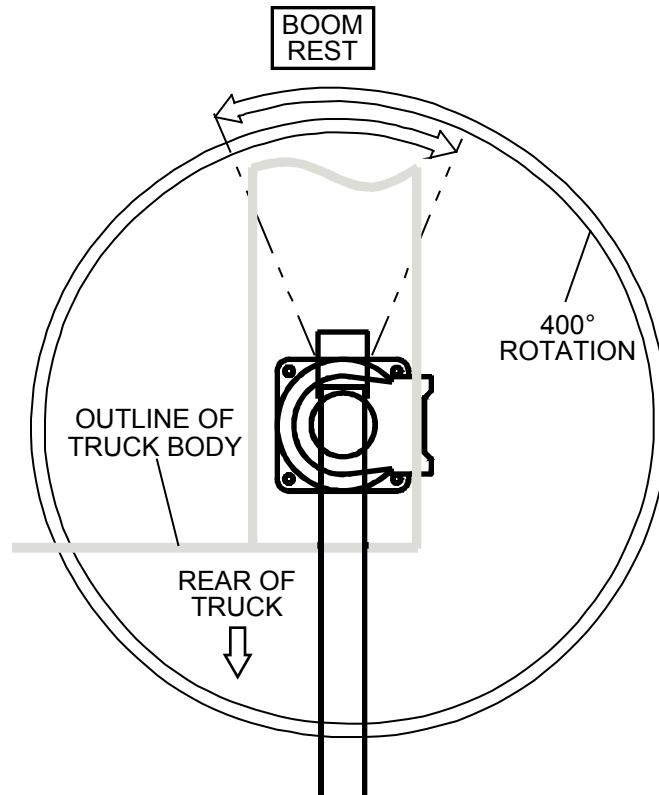
HORN CIRCUIT



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.



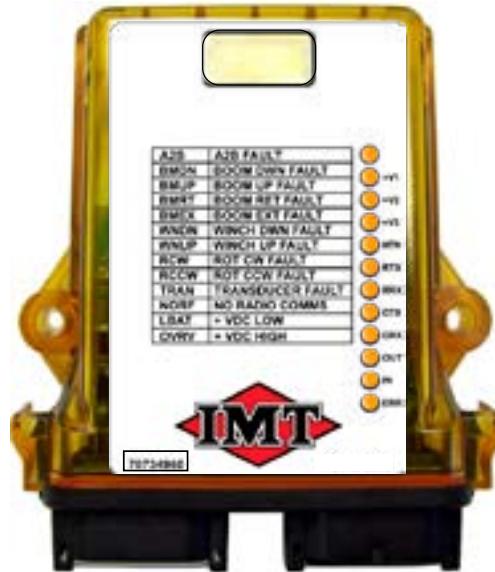
Viewed looking up from crane box. The pressure, return, and rotation hoses are snipped in the 60350105 hose sleeve.

SIII Telescopic Fully Proportional Radio Remote System

IMT telescopic cranes are controlled by radio remote controls. See, *Telescopic Fully Proportional Crane Radio Remote System Manual*, IMT part number 99906209, for complete details.



REMOTE



RECEIVER

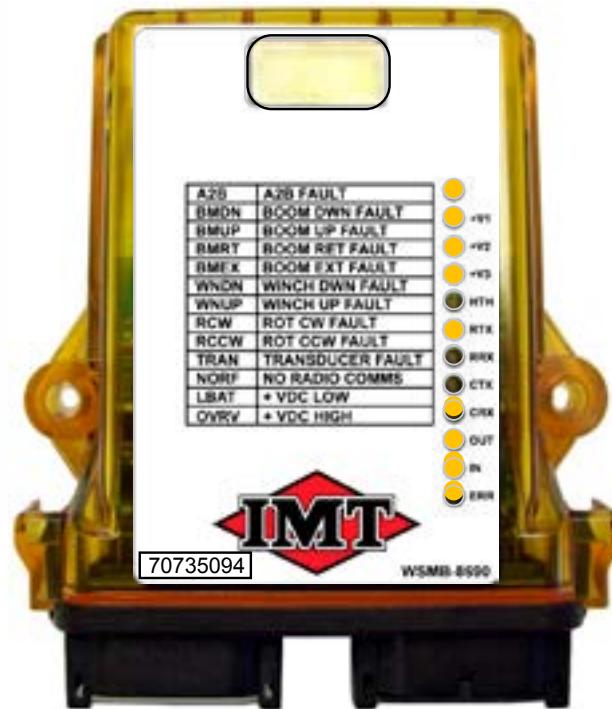
QTY.	PART NO.	DESCRIPTION
1.	70734957	TRANSM-RAD REM TELE S3 FP NON-G FHSS 240
1.	70734958	TRANSM-RAD REM TELE S3 FP GATED FHSS 241
1.	70734960	RECEIVER-RAD REM TELE S3 FP FHSS 2400

SIII Telescopic Single Proportional Radio Remote System

IMT telescopic cranes are controlled by radio remote controls. See the *Series III Telescopic Single Proportional Radio Remote System*, IMT part number 99906210, for complete details.



REMOTE



RECEIVER

QTY.	PART NO.	DESCRIPTION
1.	70734956	TRANSM-RAD REM TELE S3 SP & EM FHSS 2400
1.	70735093	TRANSM-RAD S3 SP EM 5LED FHSS 2400

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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.

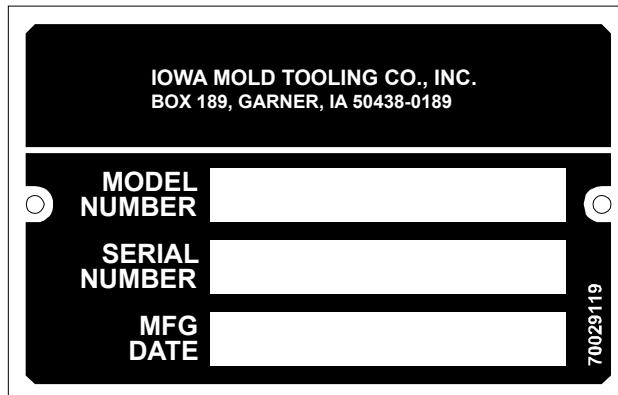
⚠ WARNING

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

CRANE IDENTIFICATION

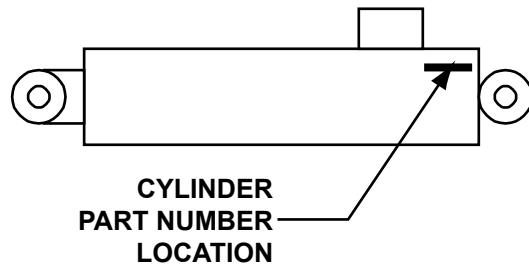
Every IMT crane has an identification placard (see figure below). This placard is attached to the inner boom, mast, or crane base. When ordering parts, communicating warranty information, or referring to the unit in correspondence, always include the serial number and model numbers. Address all inquiries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

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



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

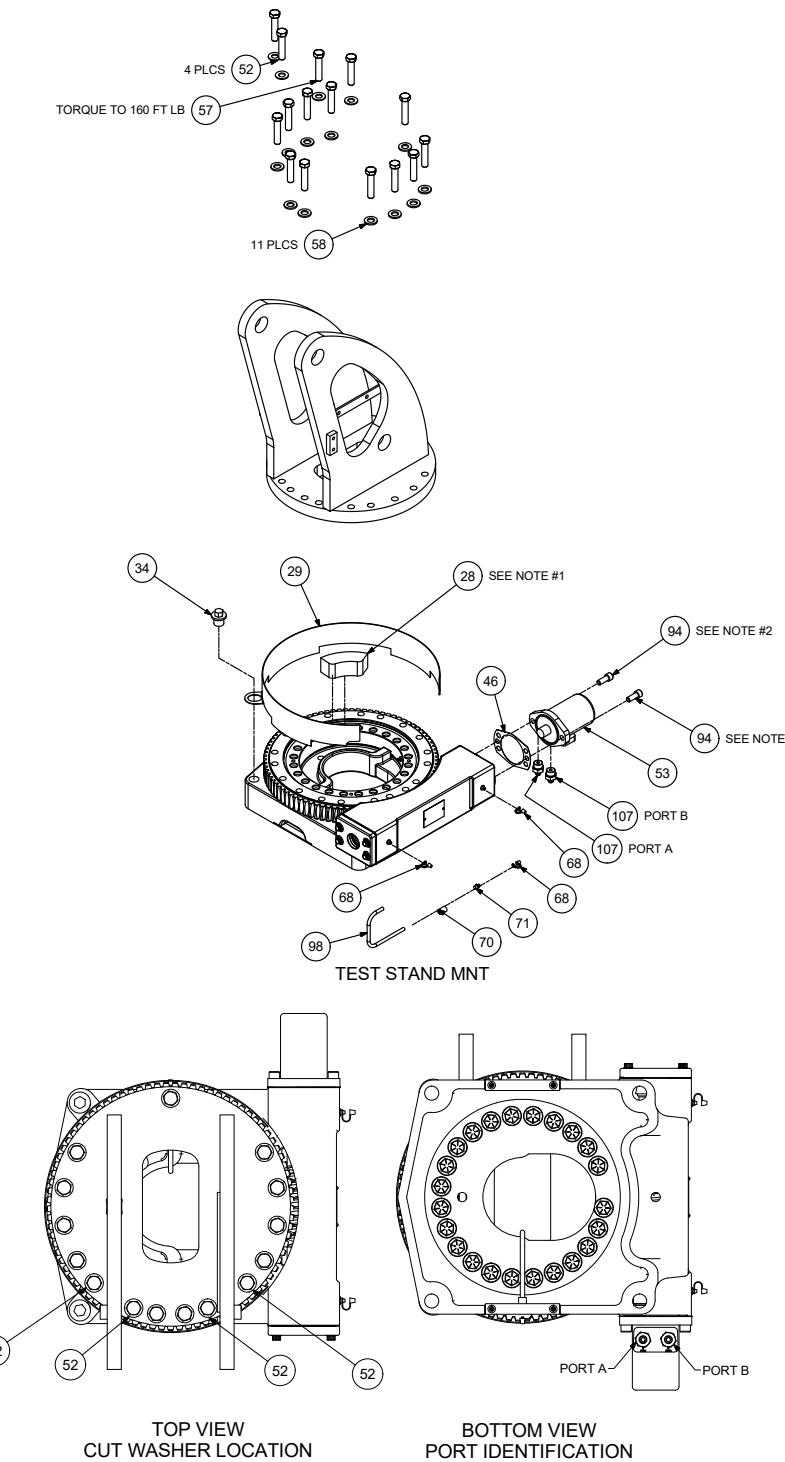
Each of the major weldments—base, mast, inner boom, outer boom, extension boom, and stabilizer weldments—bear a stamped part number. Any time a major weldment is replaced, you must specify the complete part number as stamped on the weldment. The locations of the part numbers are shown in the Crane Reference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

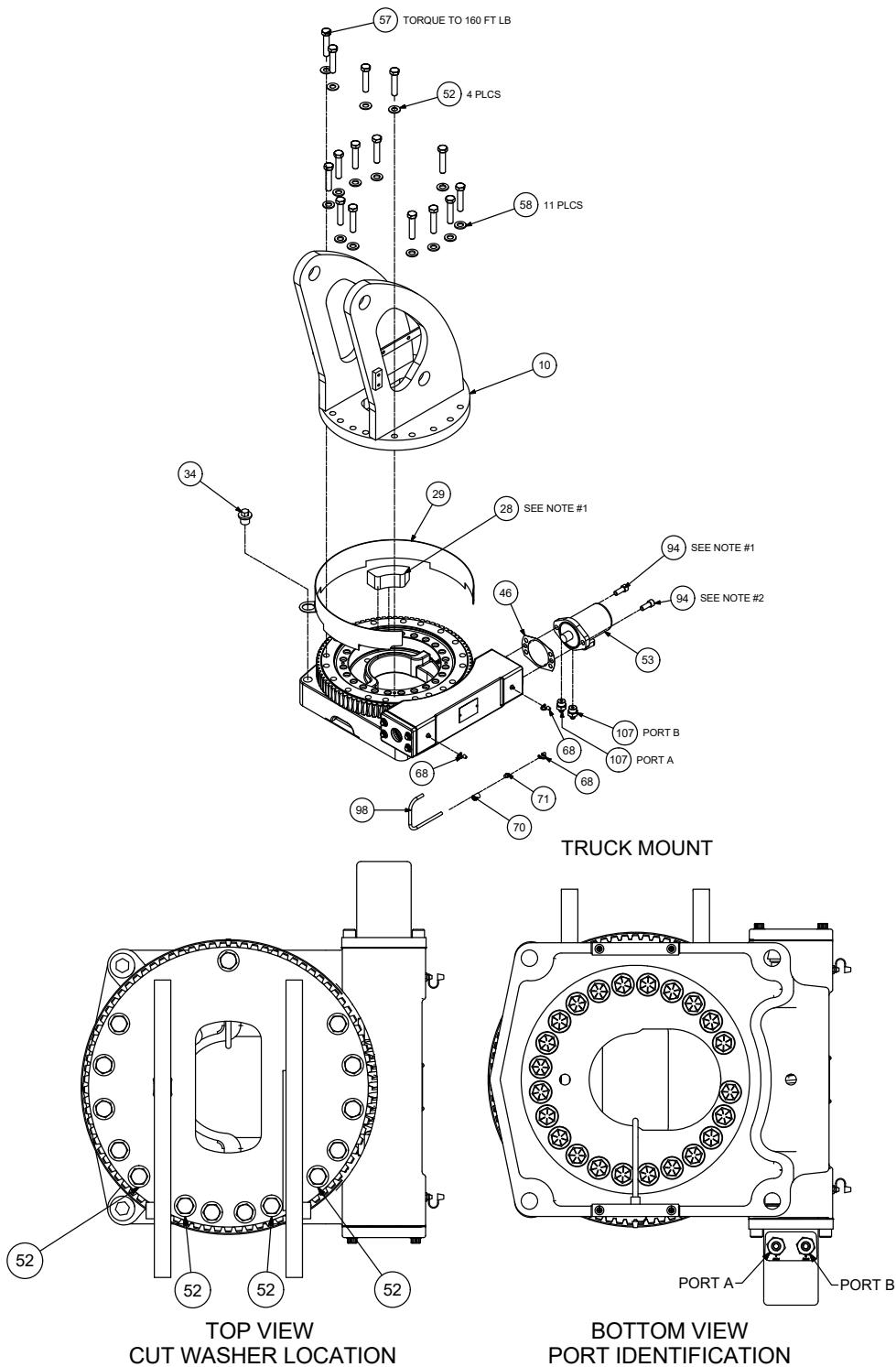
6000 - 22' Crane Assembly, Test Stand Mount (99905420)



NOTES:

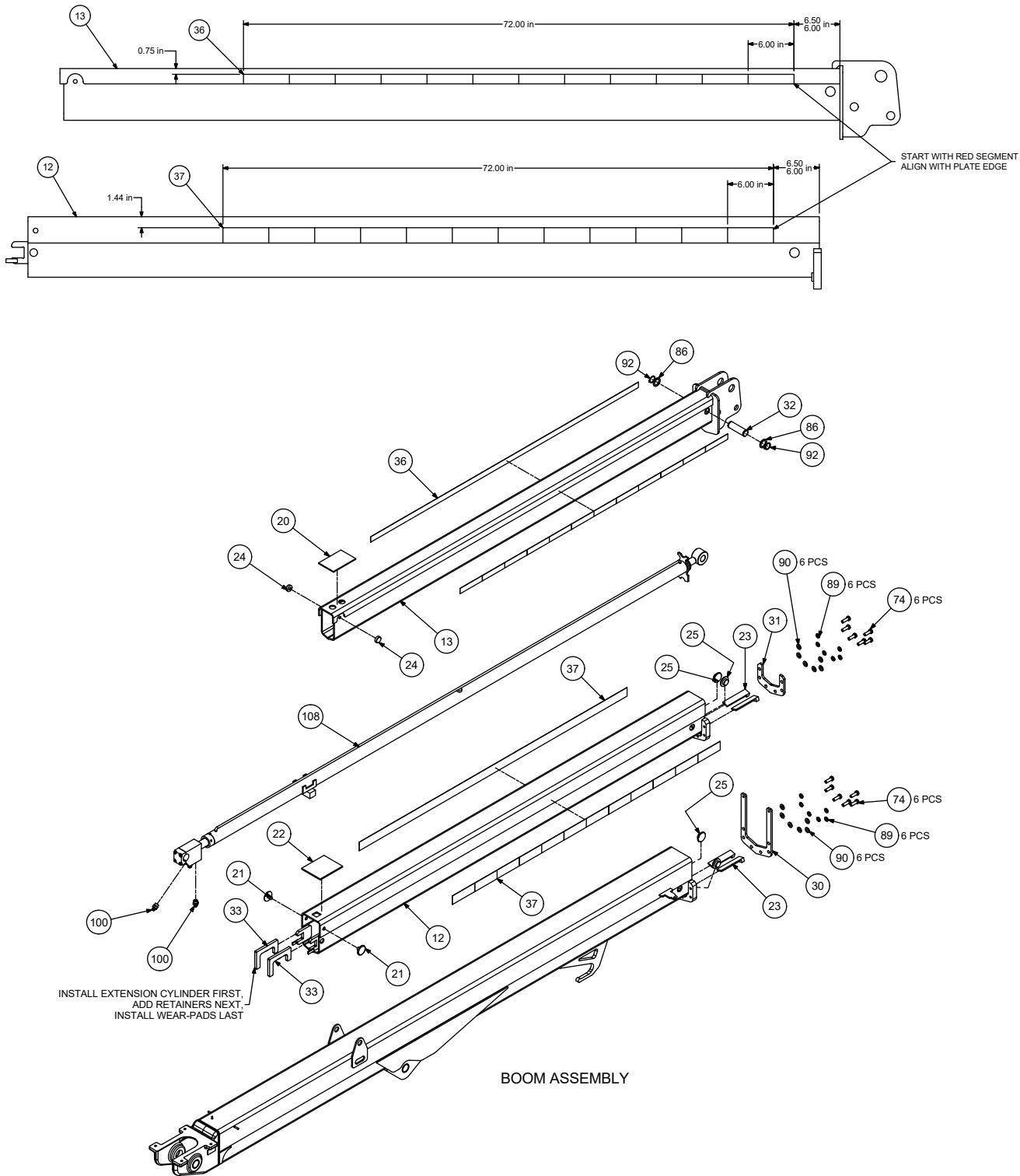
1. USE RUST PREVENTANTIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST & TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.
4. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON TEST STAND.

6000 - 22' Crane Assembly, Truck Mount (99905420)


NOTES:

1. USE RUST PREVENTANTIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST & TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.
4. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON TRUCK.

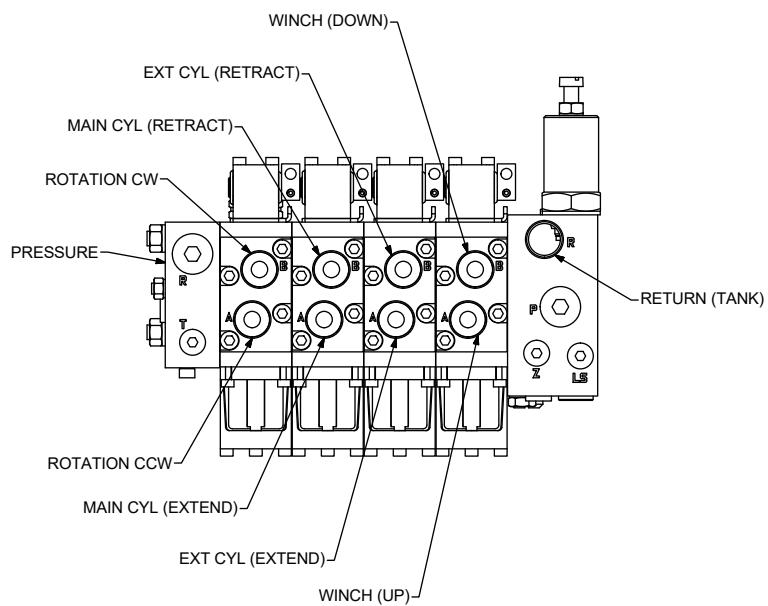
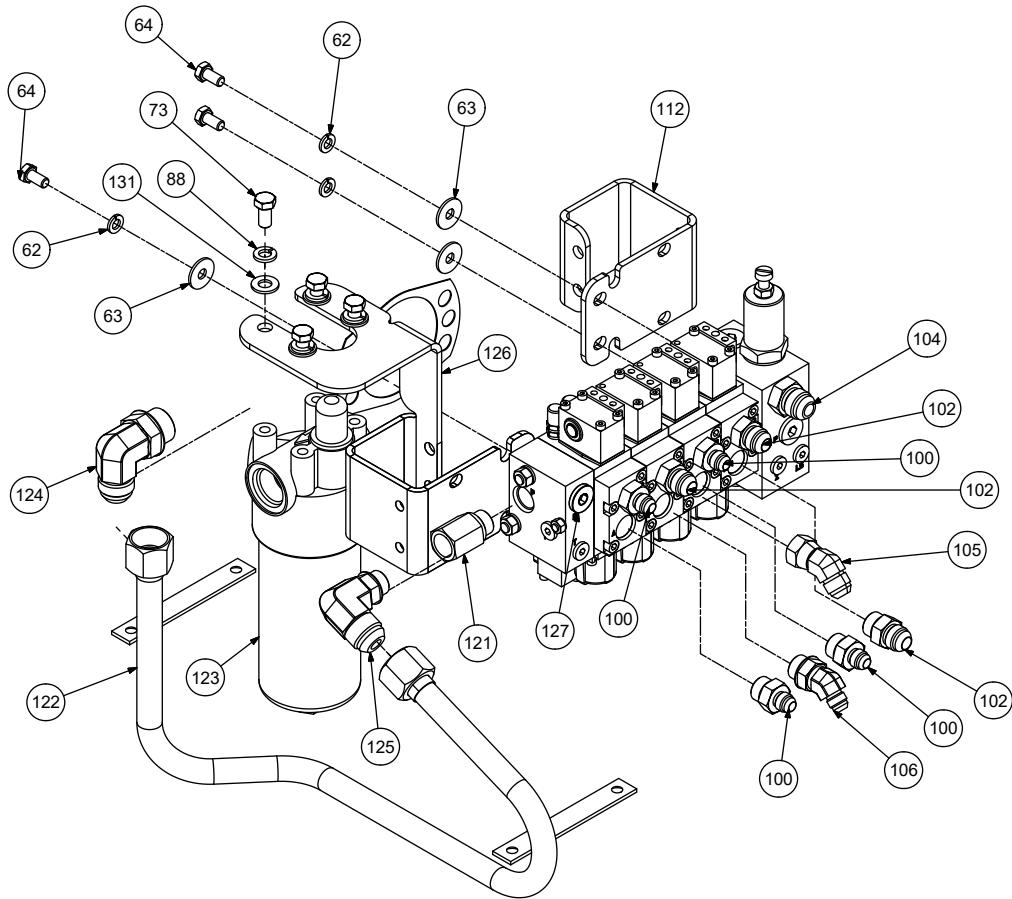
6000 - 22' Boom Assembly (99905420)

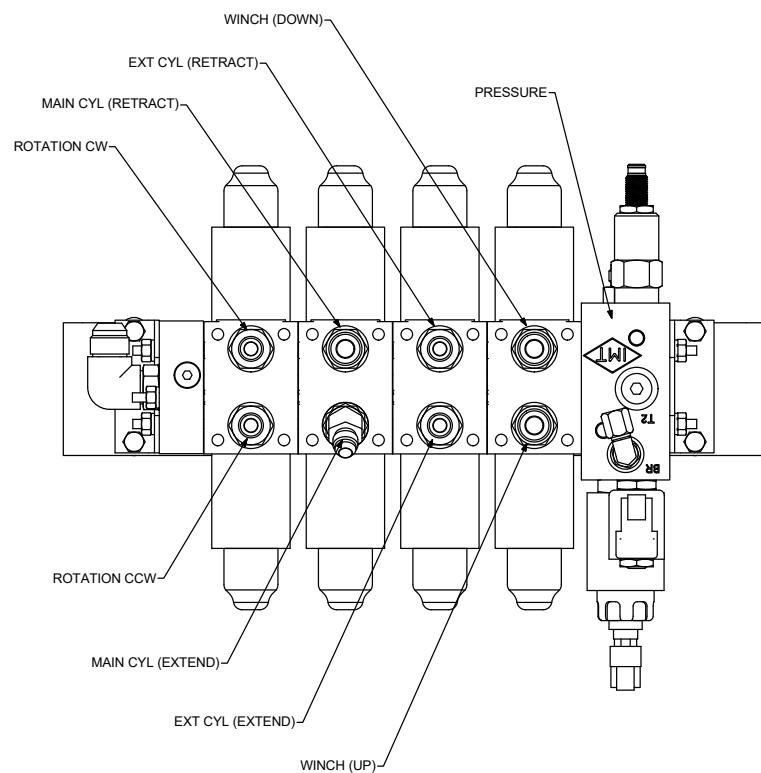
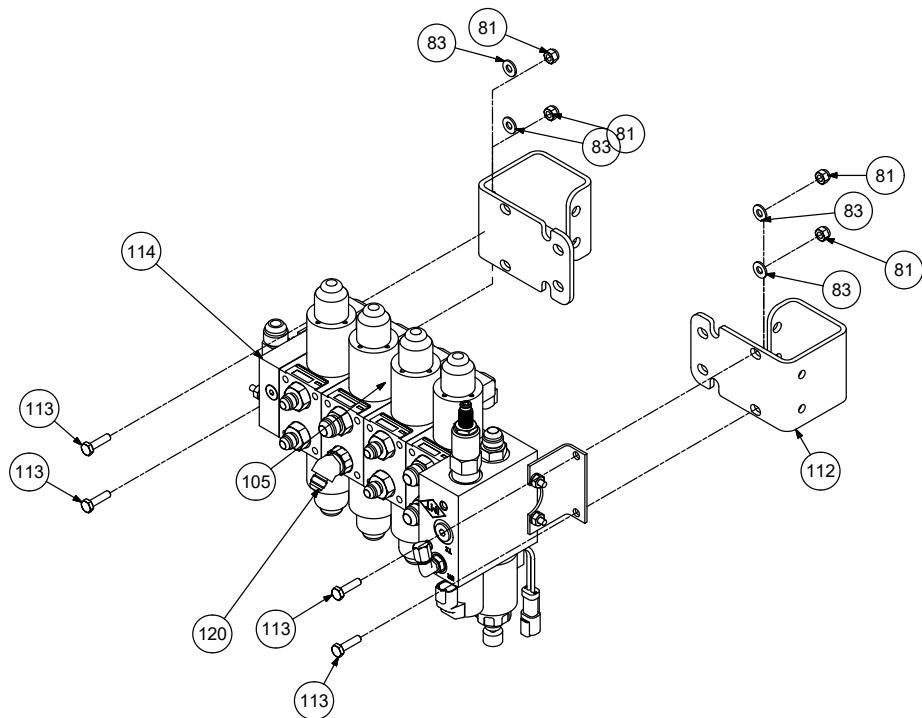


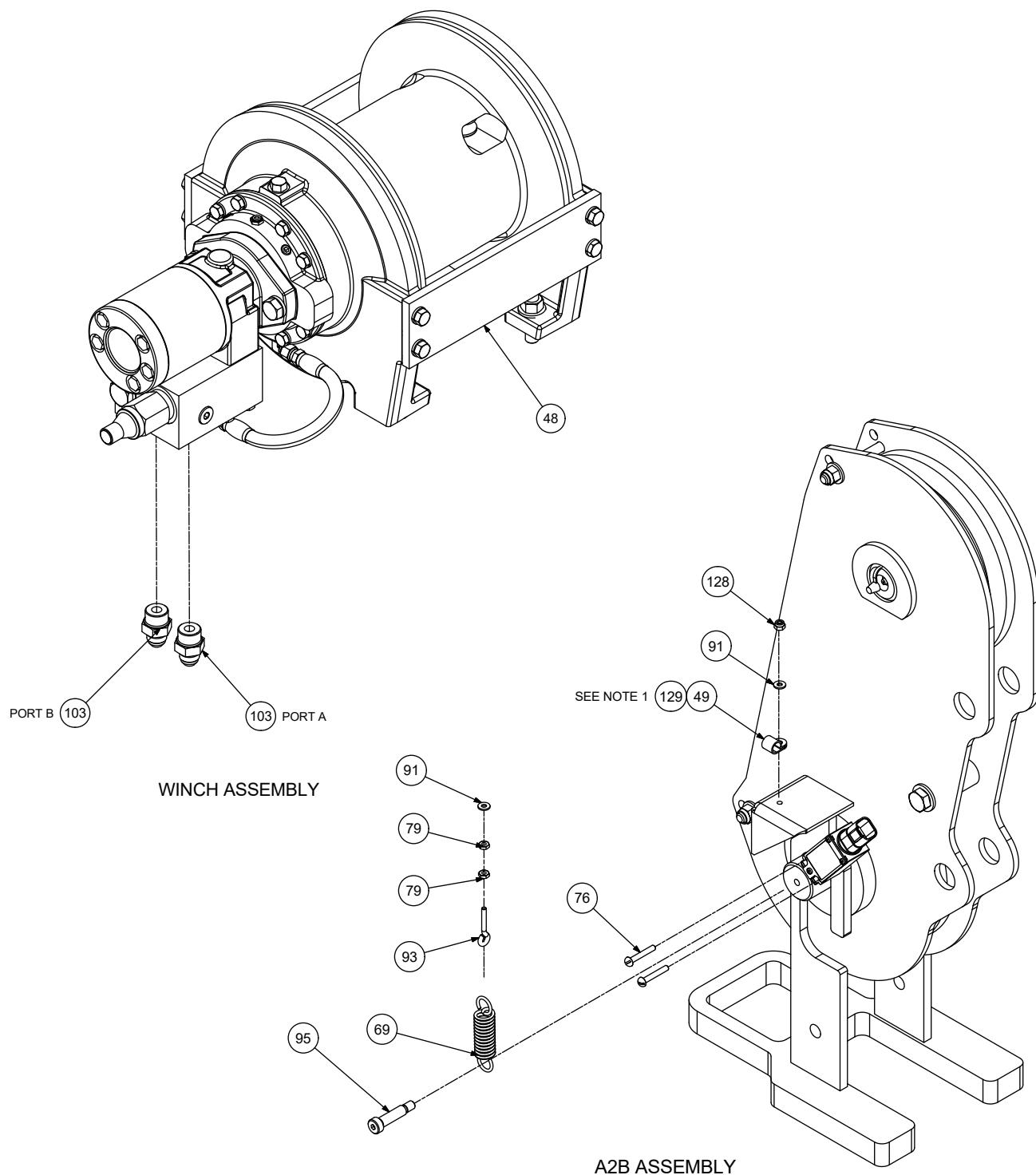
NOTES:

1. CYLINDER CAP & CAP SCREWS ARE INCLUDED WITH THE EXTENSION CYLINDER.
2. USE BLUE THREAD LOCKER.

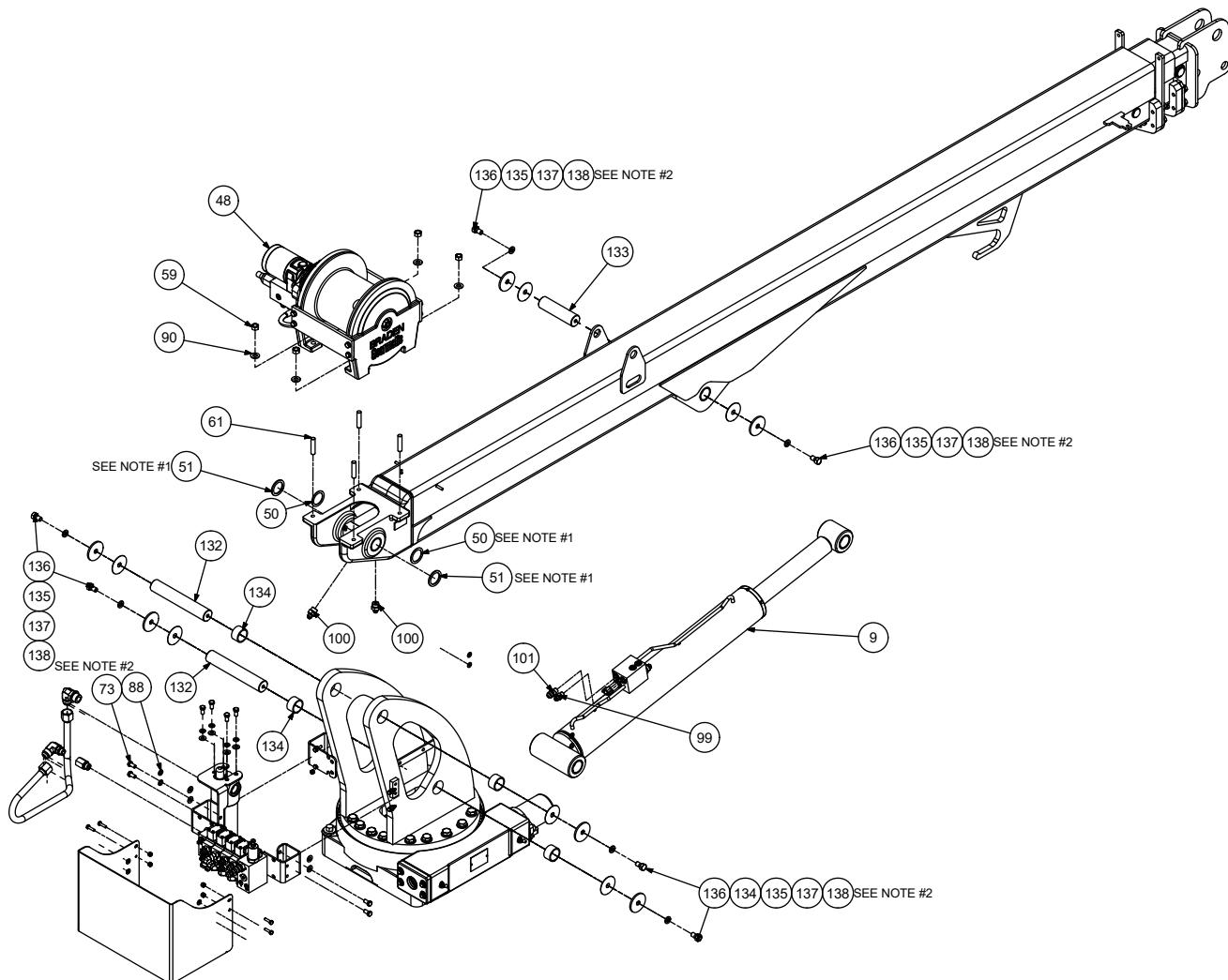
6000 - 22' Fully Proportional Valve Bank Assembly (99905420)



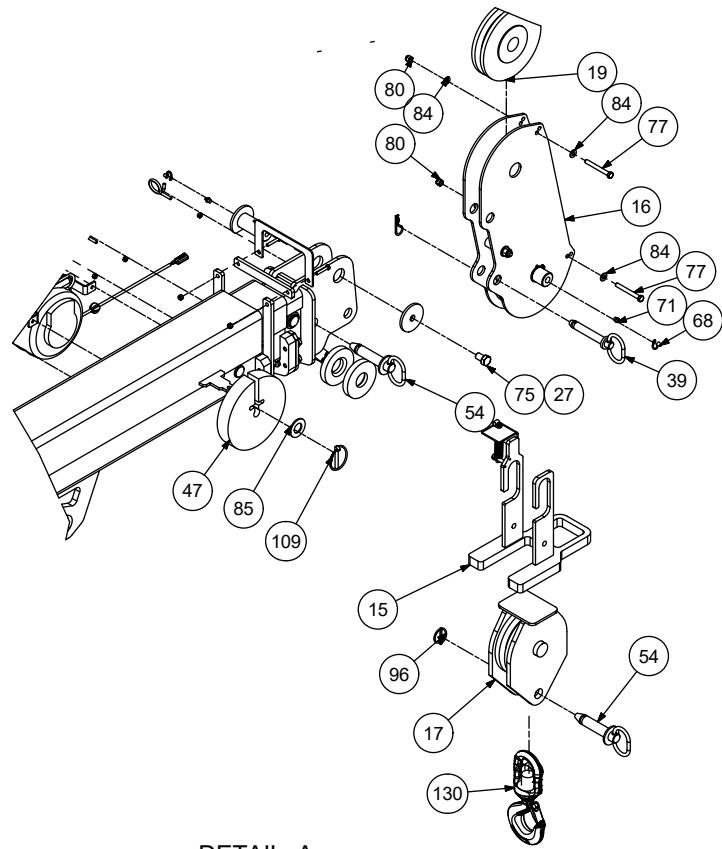
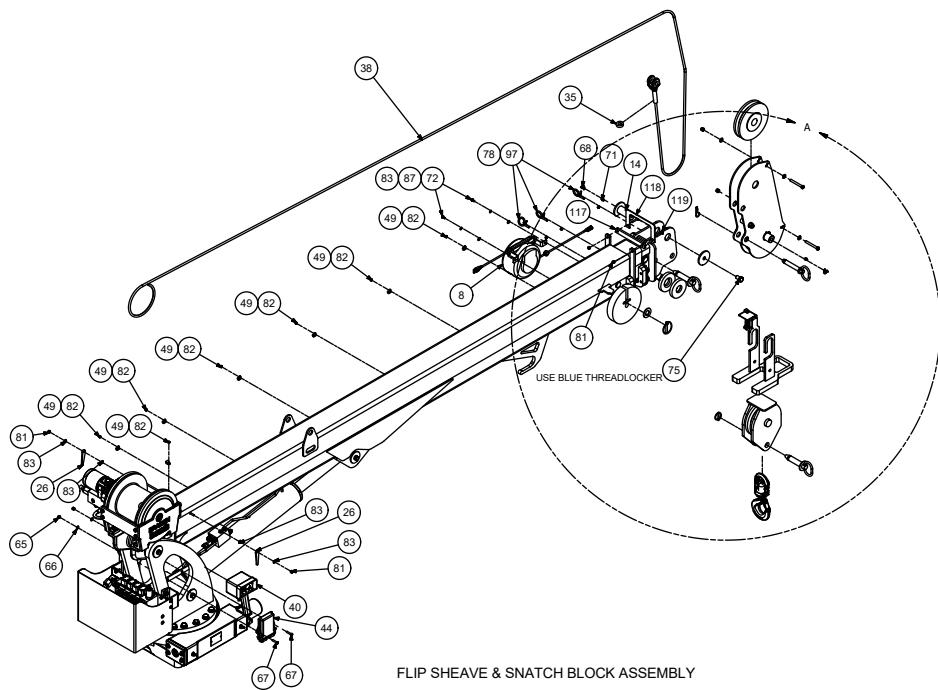
6000 - 22' Single Proportional Valve Bank Assembly (99905420)

6000 - 22' Winch Assembly & A2B Assembly (99905420)**NOTE:**

1. NO FLOOD LIGHTS: USE CLAMP-PLASTIC .25 CABLE P/N 72034485.
2. WITH FLOOD LIGHTS USE CLAMP-PLASTIC .38 CABLE P/N 72034572.

6000 - 22' Crane Assembly (99905420)**NOTE:**

1. IF REQUIRED USE 72063036 OR 72063037 MACHNY BUSHINGS BETWEEN MAST AND LOWER BOOM.
2. TORQUE TO 60 LB-FT.

6000 - 22' Flip Sheave & Snatch Block Assembly (99905420)

99905420 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91723654	KIT-HRDW BASE & MAST 7500/8600S		1
2.	91726834	KIT-HRDW WINCH MNT BG4-BG6		1
3.	91723543	KIT-HRDW VB MNT HAWE		1
4.	51719413	KIT-HRDW TELE CRANE RADIO CONTROLS		1
5.	91725204	KIT-HRDW SERIES III 7500/8600S		1
6.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
7.	91726823	KIT-HYD BG4 SERIES III SP 7500/8600S		A/R
8.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
9.	51727884	CYL-4.00/2.25 25.06S 45.52 CC		1
10.	52727808	MAST WLDMNT-SERIES III S		1
11.	52727813	WLDMNT-LOWER BOOM 7500-8600S		1
12.	52725159	WLDMNT-1st STAGE EXT BOOM 7500S		1
13.	52723169	WLDMNT-2ND STAGE EXT BOOM 7500/8600		1
14.	52723030	PIN-TYPE M 1.50X 3.38		1
15.	52725155	WLDMT- A2B BRKT		1
16.	51727792	FLIP SHEAVE ASM 6000/8600		1
17.	52725065	WLDMT- SNATCH BLOCK 7500/8600		1
18.	51727982	KIT-A2B LIMIT SWITCH NO TOP PIN DEUTSCH		1
19.	60030134	SHEAVE- 8.00 POLYMER		1
20.	60030433	WEAR PAD-RC 0.19 X 6.00X 4.00		1
21.	60030339	WEAR PAD-RND 0.19X 2.00X .60X .81		2
22.	60030432	WEAR PAD-RC 0.25 X 6.00X 5.00		1
23.	60030431	WEAR PAD-RC 0.25X 6.00X 1.25		4
24.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
25.	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
26.	70034490	PLATE-ANGLE PLASTIC 3.50"		2
27.	60109337	RETAINER PLT-PIN 3.00 DIA		1
28.	60120138	SLIDE-ROTATION STOP 3816		1
29.	60128849	GEAR GUARD 6025 SII		1
30.	60140900	CAP-LOWER BOOM	110	1
31.	60136129	CAP-FIRST STAGE		1
32.	60136309	PIN-TYPE A 1.25X 4.27 (3.83)		1
33..	60127979	PLATE-EXT CYL C-CLIP		2
34.	70029595	THREADED PLUG 1.00-8 (3816)		2
35.	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN		1
36.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
37.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
38.	70580230	WIRE ROPE ASM-GALV .38(6/25)X85ft		1
39.	73734752	PIN-LOCK W/HANDLE 0.75 X 4.00 W/HAIRPIN		1
40.	70734957	TRANSM-RAD REM TELE S3 FP NON-G FHSS 240		A/R
41.	70734958	TRANSM-RAD REM TELE S3 FP GATED FHSS 240		A/R
42.	70735093	TRANSM-RAD S3 SP EM 5LED FHSS 2400		A/R
43.	70735094	RECEIVER-RAD S3 SP 5LED FHSS 2400		A/R
44.	70734960	RECEIVER-RAD REM TELE S3 FP FHSS 2400		A/R
45.	71056543	GEAR ROTATOR 5020 170-00012-1		1
46.	76039295	GASKET-GEA19 008-10056-1	45	1
47.	71414204	PLATE-SINGLE SHEAVE (20#) .38 WIRE ROPE		1
48.	70570761	WINCH-PLANETARY 5500 LB LINE PULL		1
49.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
50.	72063036	MACHY BUSHING 1.50X14 GA NR		A/R
51.	72063037	MACHY BUSHING 1.50X10 GA NR		A/R
52.	72063219	WASHER-FLAT .62		4
53.	73051919	MOTOR-HYD (101-2638-009)		1
54.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		2
55.	73734727	VALVE BANK-4-SECT PSL2 W OC INLT		A/R
56.	77441481	HARNESS-TELE RADIO REMOTE SERIES III		A/R
57.	72060177	CAP SCR .62-11X 3.00 HH GR8 Z	1	15
58.	72063119	WASHER .62 FLAT ASTM F436	1	11
59.	72062108	NUT .50-20 HEX CENTER LOCKING	2	4

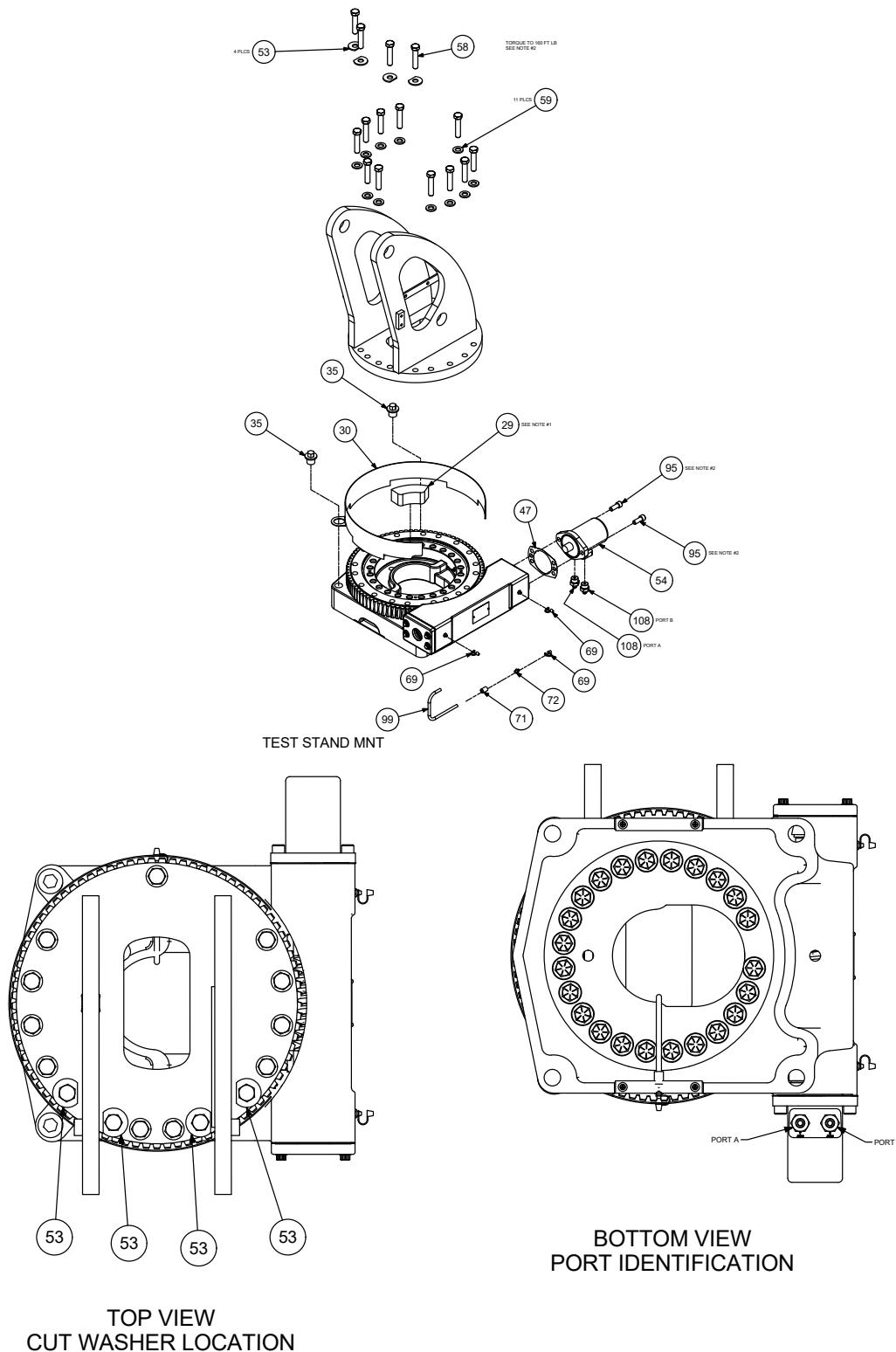
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
60.	72063132	WASHER .50 FLAT ASTM F436	2	4
61.	72602138	STUD .50-20X 2.25 DBL .50-13 GR8 STL	2	4
62.	72601797	WASHER-LOCK 8MM	3	4
63.	72602065	WASHER-FLAT M 8	3	4
64.	72602052	CAP SCR M 8-1.25X 16 HHZ	3	4
65.	72062194	NUT-SS .25-20 NYLOC	4	2
66.	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	4	2
67.	72601846	CAP SCR .25-20X 1.25 HH SS	4	2
68.	70034382	CAP-GREASE PRO20 GC-RED	5	6
69.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	5	1
70.	72053301	COUPLING-GLV .12 SCH 40	5	1
71.	72053508	ZERK-NPT .12	5	4
72.	72060000	CAP SCR .25-20X .50 HH GR5 Z	5	2
73.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
74.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	5	12
75.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	5	1
76.	72060639	SCR-MACH 10-24X 1.25 RDH	5	2
77.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	5	2
78.	72062000	NUT .25-20 HEX	5	3
79.	72062093	NUT # 8-32 HEX ZINC	5	2
80.	72062103	NUT .38-16 HEX NYLOCK	5	2
81.	72062104	NUT .25-20 HEX NYLOCK	5	6
82.	72062106	NUT 10-24 HEX NYLOCK	5	7
83.	72063001	WASHER .25 FLAT	5	18
84.	72063003	WASHER .38 FLAT	5	8
85.	72063010	WASHER 1.00 FLAT	5	1
86.	72063035	MACHY BUSHING 1.25X10 GA NR	5	2
87.	72063049	WASHER .25 LOCK	5	2
88.	72063051	WASHER .38 LOCK	5	8
89.	72063053	WASHER .50 LOCK	5	12
90.	72063132	WASHER .50 FLAT ASTM F436	5	17
91.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	5	2
92.	72066129	RETAINING RING-EXT 1.25 HD	5	2
93.	72601938	BOLT-EYE # 8-32X 1.125	5	1
94.	72601949	CAP SCR .50-13X 1.25 SH ZC	5	2
95.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	5	1
96.	72661543	PIN-QUICK 316-10QP	5	2
97.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	5	3
98.	51395121	HOSE-AA .13 X 13.50 OAL (2-2)	5	1
99.	72532355	ADPTR-M STR/M JIC 6 6	#	1
100.	72532356	ADPTR-M STR/M JIC 8 6	6	6
101.	72532357	ADPTR-M STR/M JIC 6 8	6	1
102.	72532358	ADPTR-M STR/M JIC 8 8	6	3
103.	72532359	ADPTR-M STR/M JIC 10 8	6	2
104.	72532361	ADPTR-M STR/M JIC 8 10	6	1
105.	72532670	ELBOW-M JIC/45/F JIC 8 8	6	1
106.	72533583	ELBOW-M STR/45/M JIC 8 6	6	1
107.	72533613	ADPTR-M STR/M JIC 10 6	6	2
108.	51727915	CYL-2.00/1.50 2.00/1.25 59.75S 52.25S		1
109.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW	5	1
110.	93725208	KIT-CABLE GUIDE 7500/8600S		1
111.	60144215	COVER-VALVE BANK SIII		1
112.	60140839	BRKT-MAST VB 6000-8600S		2
113.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
114.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
115.	77441537	HARNESS-S3 TELE S-PROP VALVE BANK CERVIS		A/R
116.	60030486	SPACER-A2B BRACKET		2
117.	60140934	GUIDE - CABLE WEAR (NARROW)	110	1
118.	60140937	BRKT - CABLE GUIDE (NARROW)	110	1
119.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	110	2
120.	72062104	NUT .25-20 HEX NYLOCK	110	2
121.	72534898	O-RING EXTENDER 08-08		1

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
122.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST		1
123.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
124.	72053767	ELBOW-M STR/90/M JIC 12 12		1
125.	72533623	ELBOW-M STR/90/M JIC 8 12		1
126.	60143075	BRKT-MAST VB 6000-8600S FP		1
127.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	6	1
128.	72062207	NUT 8-32 HEX NYLOCK		1
129.	72034572	CLAMP-PLASTIC .38 CABLE		1
130.	70735099	HOOK-SWVL BBRG 5TON W/LATCH		1
131.	72063186	WASHER-FLAT .38 N H ASTM F436		4
132.	70190006	PIN-TYPE AB 1.50 X 9.13 SS		2
133.	70190005	PIN-TYPE AB 1.50 X 5.63 SS		1
134.	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON		4
135.	70190003	RETAINER PLT-PIN 0.19 X 2.50 DIA SS		6
136.	72602168	CAP SCR HH 1/2-13 UNC -.875 SS 18-8	5	6
137.	72063144	WASHER-LOCK 1/2 SS	5	6
138.	60030590	WEAR PAD-RND 0.56X 2.44X .03		6

REV AK, CN1009-3 & CN 1066, REV. AF

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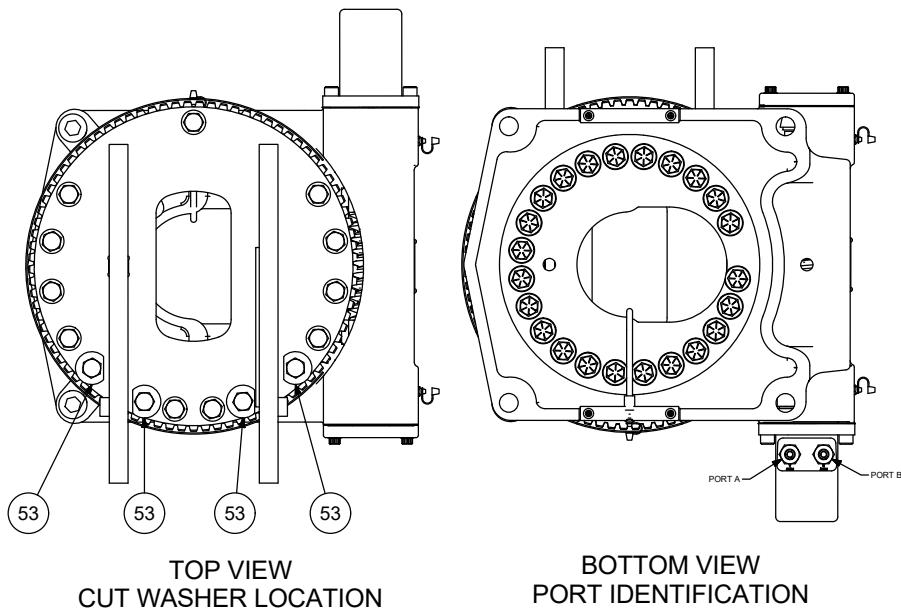
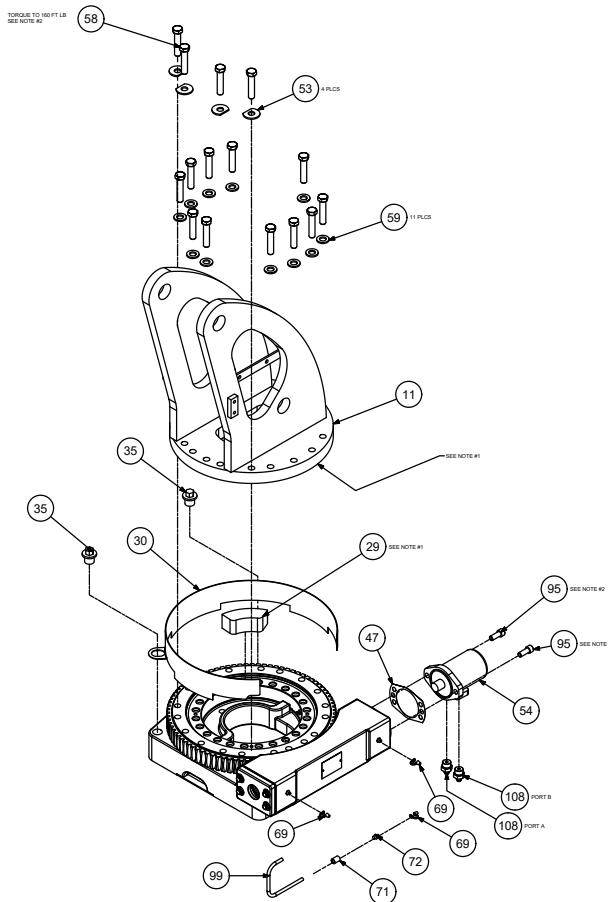
7500 - 22' Crane Assembly, Test Stand Mount (99904969)



NOTES:

1. USE RUST PREVENTANTIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST & TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.
4. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON TRUCK.

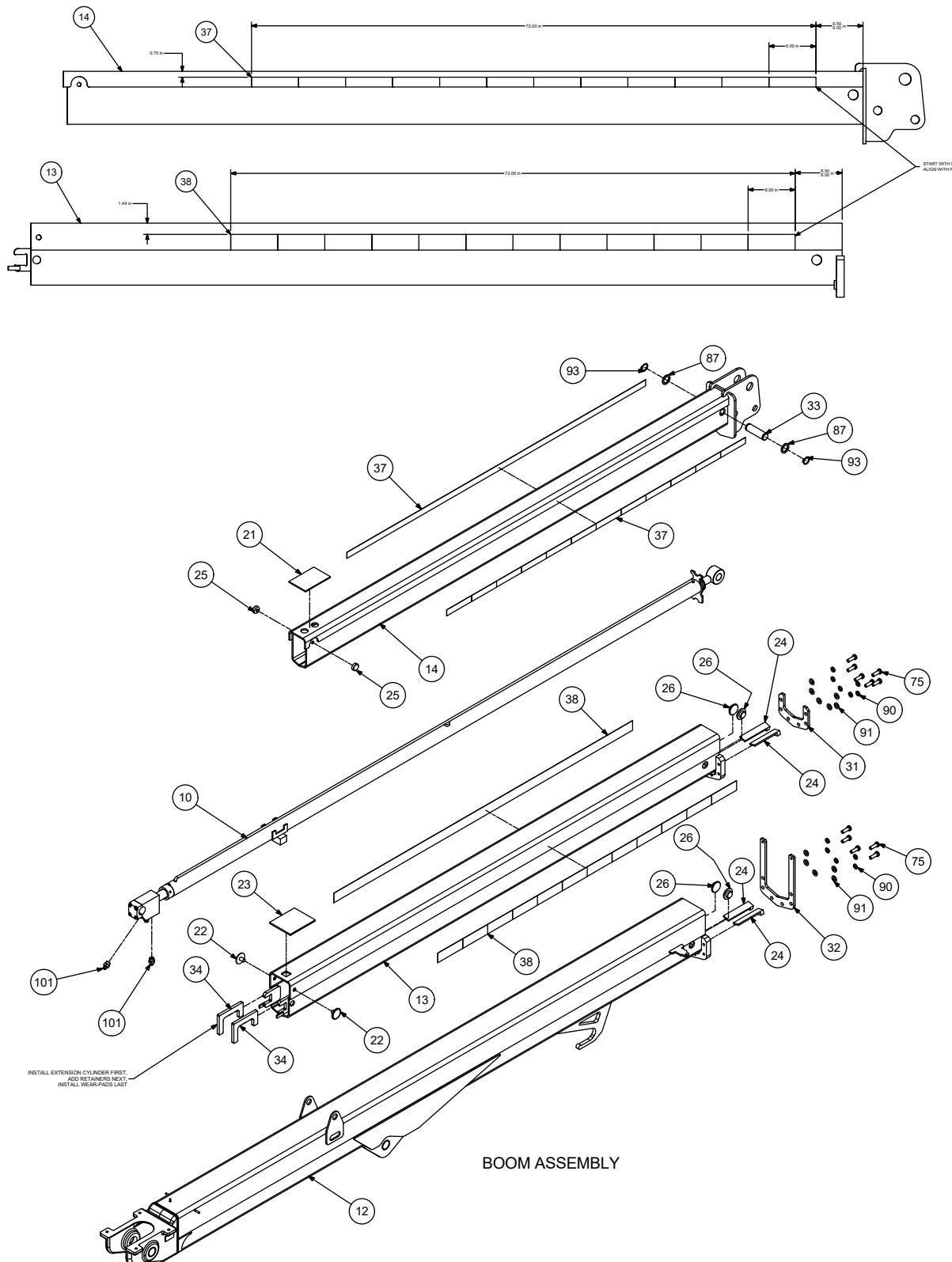
7500 - 22' Crane Assembly, Truck Mount (99904969)



NOTES:

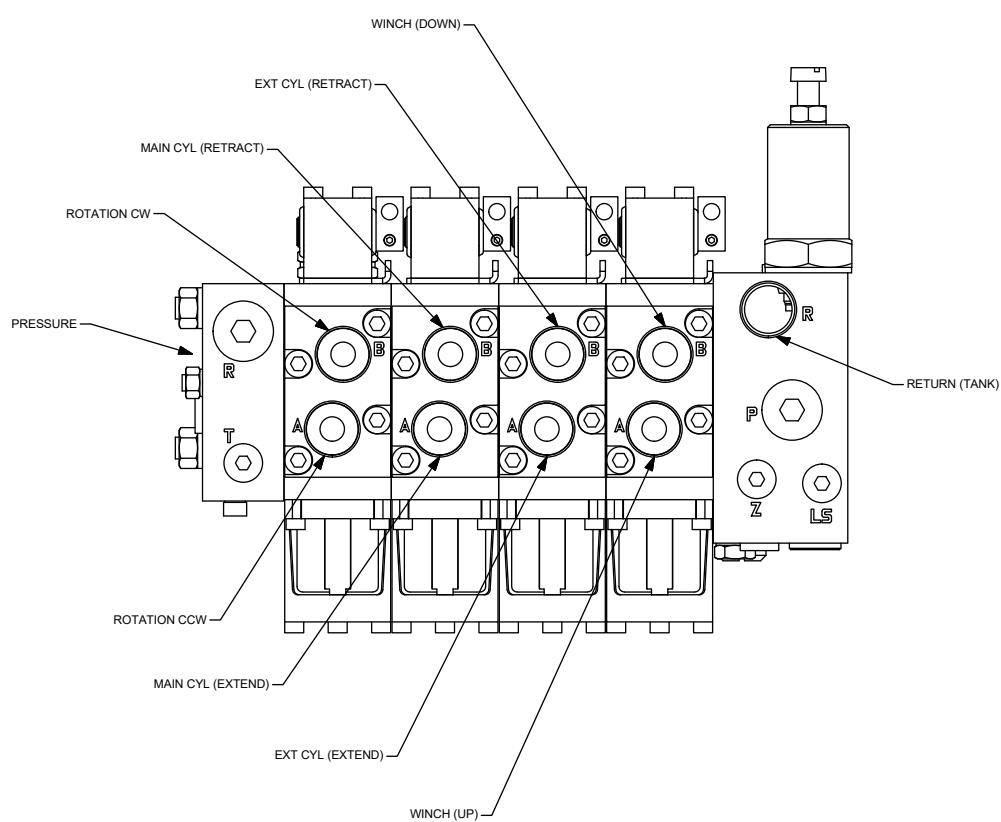
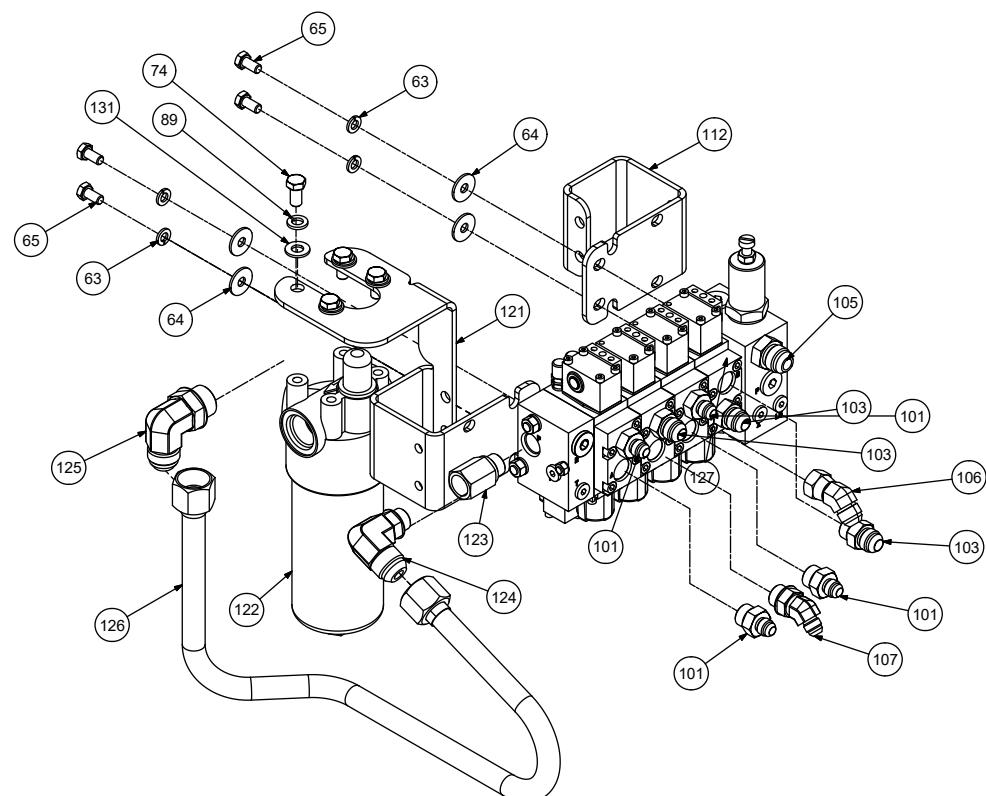
1. USE RUST PREVENTANTIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST & TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.
4. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON TRUCK.

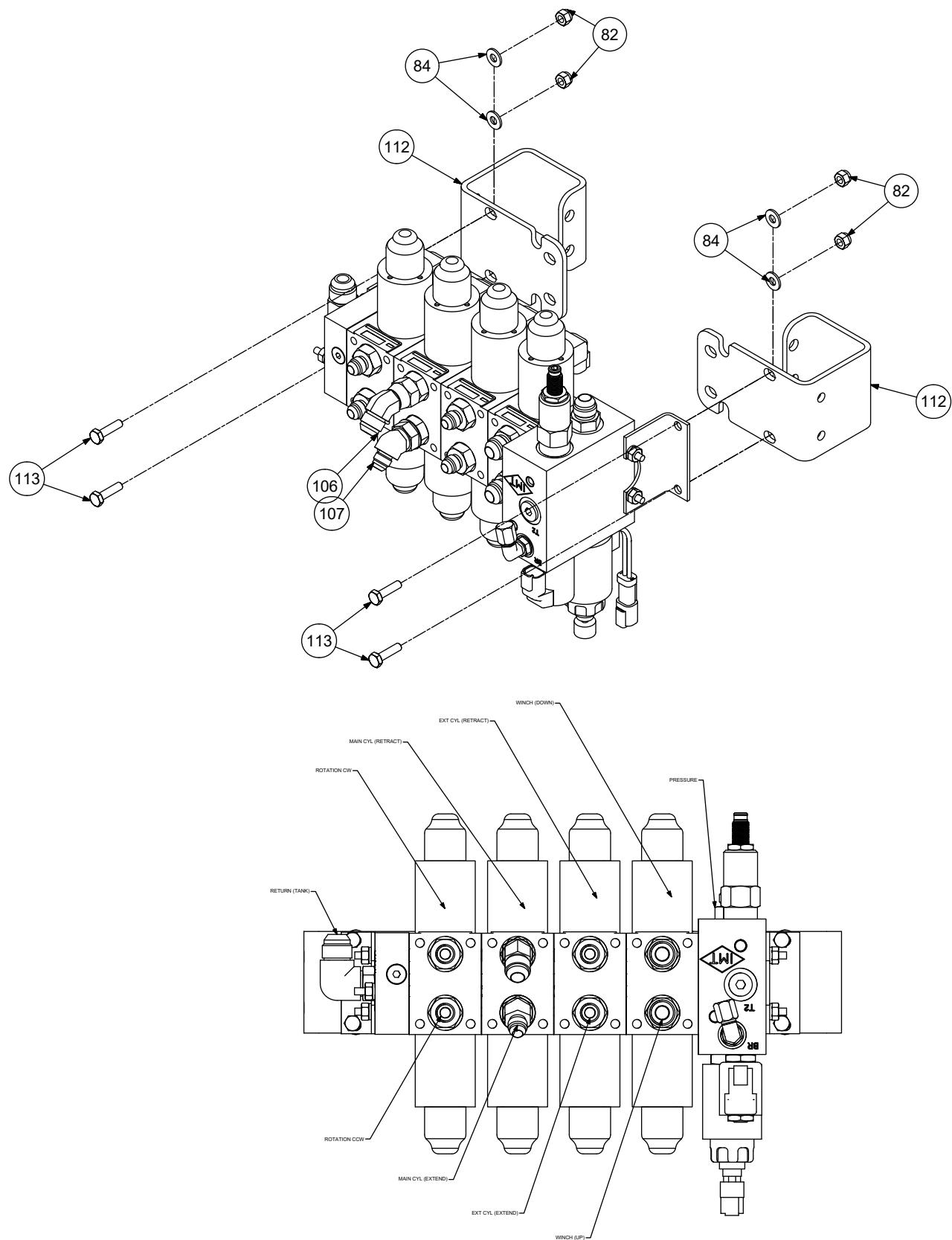
7500 - 22' Boom Assembly (99904969)

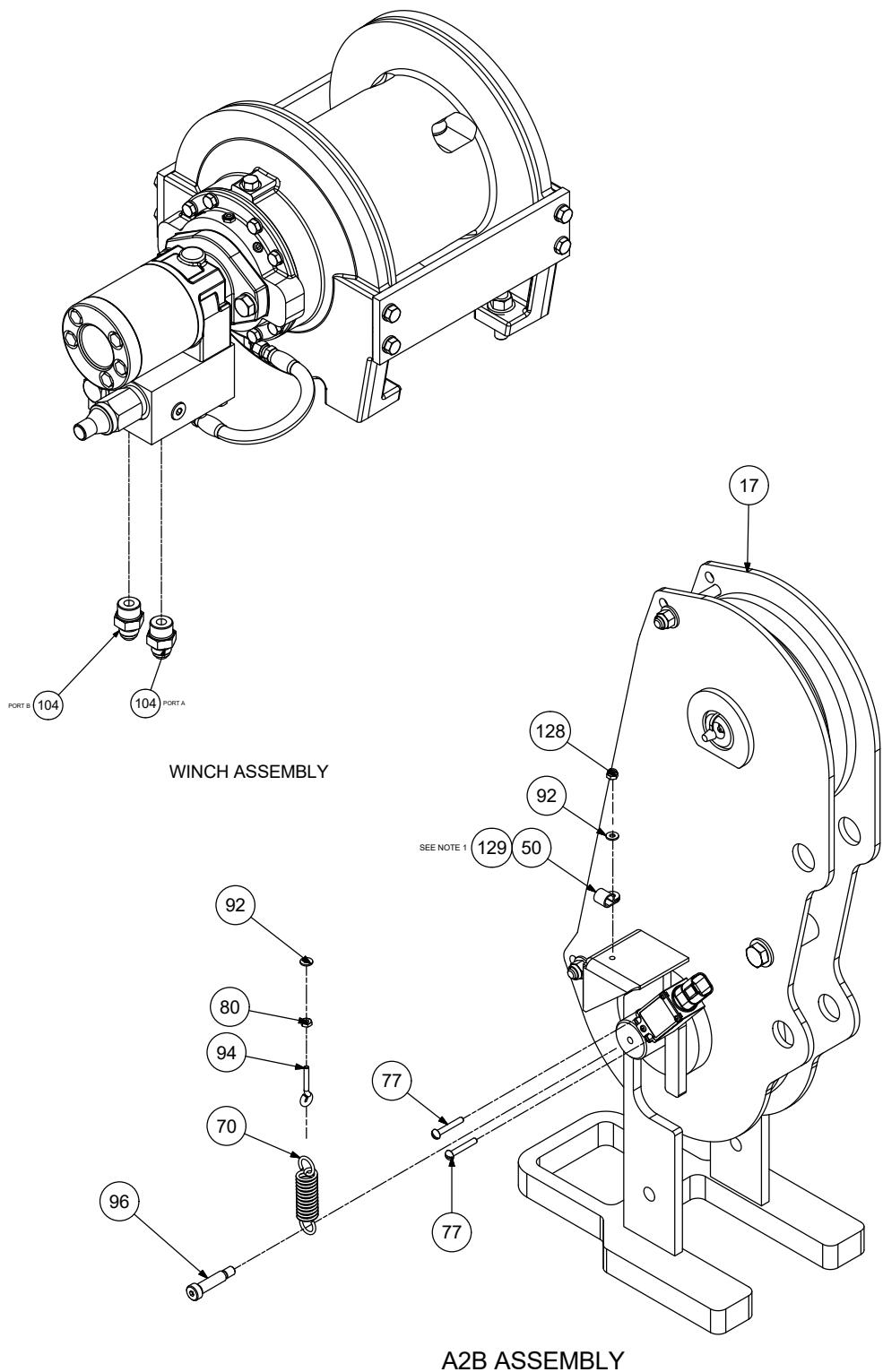

NOTES:

1. CYLINDER CAP & CAP SCREWS ARE INCLUDED WITH THE EXTENSION CYLINDER.
2. USE BLUE THREAD LOCKER.

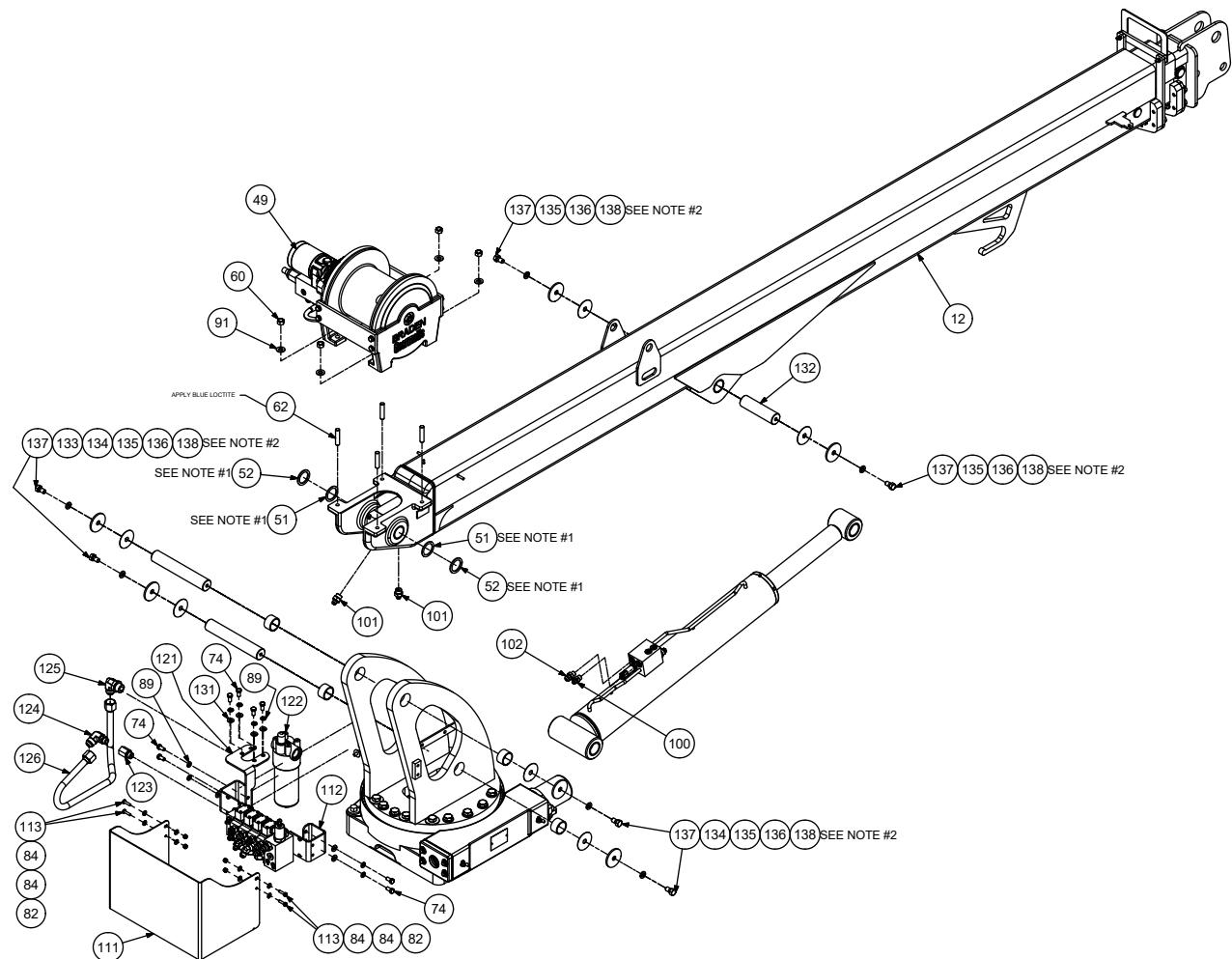
7500 - 22' Fully Proportional Valve Bank Assembly (99904969)



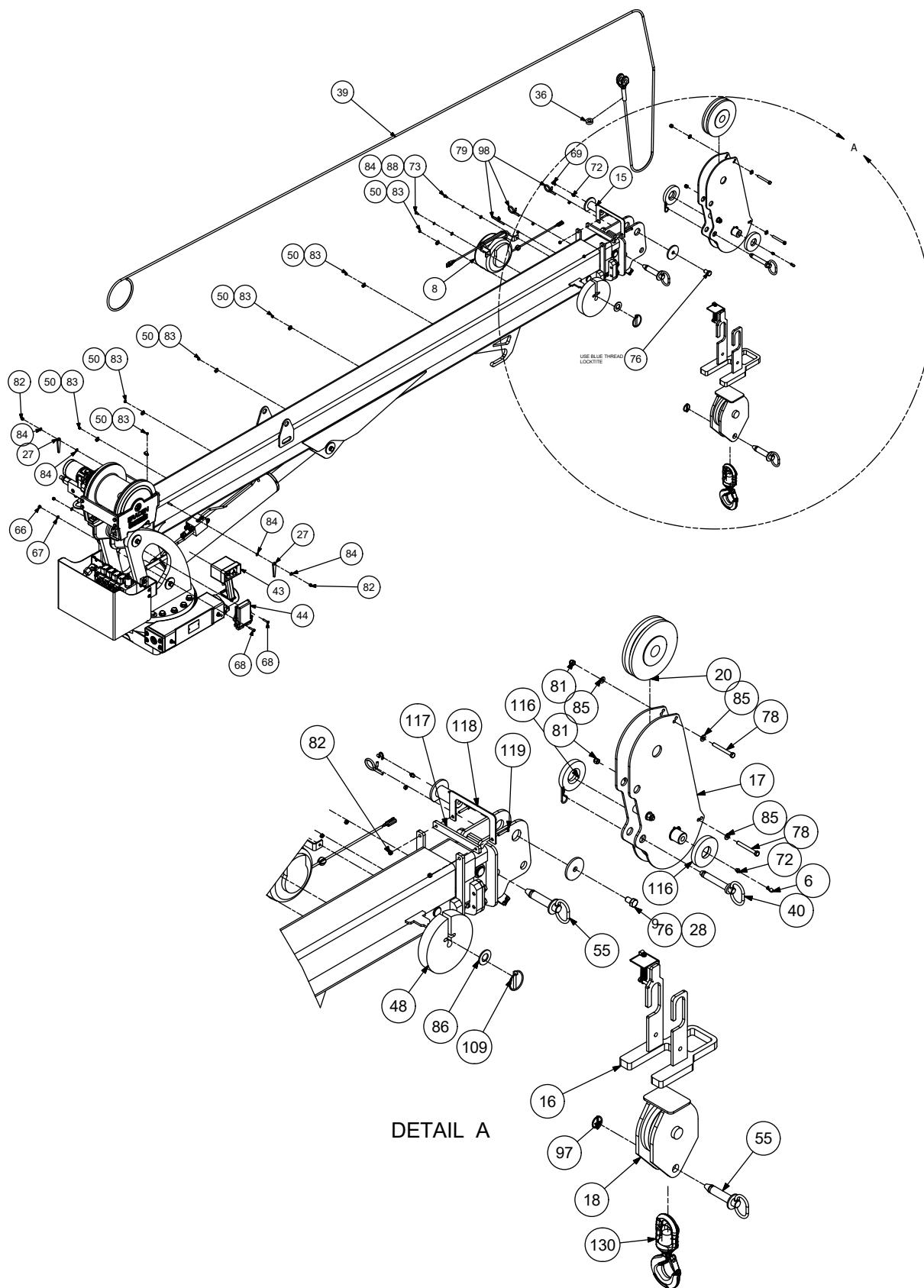
7500 - 22' Single Proportional Valve Bank Assembly (99904969)

7500 - 22' Winch & Anti-Two Block Assembly (99904970)**NOTE:**

1. NO FLOOD LIGHTS: USE CLAMP-PLASTIC .25 CABLE P/N 72034485.
2. WITH FLOOD LIGHTS: USE CLAMP-PLASTIC .38 CABLE P/N 72034572.

7500 - 22' Crane Assembly (99904969)**NOTE:**

1. IF REQUIRED USE 72063036 OR 72063037 MACHNY BUSHINGS BETWEEN MAST AND LOWER BOOM.
2. TORQUE TO 60 LB-FT.

7500 - 22' Flip Sheave & Snatch Block Assembly (99904969)

99904969 PARTS LIST

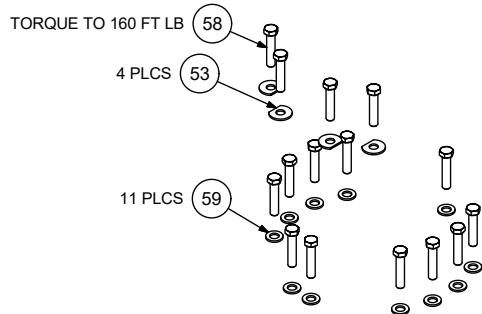
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1..	91723654	KIT-HRDW BASE & MAST 7500/8600S		1
2..	91726834	KIT-HRDW WINCH MNT BG4-BG6		1
3..	91723543	KIT-HRDW VB MNT HAWE		1
4..	51719413	KIT-HRDW TELE CRANE RADIO CONTROLS		1
5..	91725204	KIT-HRDW SERIES III 7500/8600S		1
6..	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
7..	91726823	KIT-HYD BG4 SERIES III SP 7500/8600S		A/R
8..	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
9..	51727885	CYL-4.25/2.25 25.06S 45.52CC		1
10..	51727915	CYL-2.00/1.50 2.00/1.25 59.75S 52.25S		1
11..	52727808	MAST WLDMNT-SERIES III S		1
12..	52727813	WLDMNT-LOWER BOOM 7500-8600S		1
13..	52725159	WLDMNT-1st STAGE EXT BOOM 7500S		1
14..	52723169	WLDMNT-2ND STAGE EXT BOOM 7500/8600		1
15..	52723030	PIN-TYPE M 1.50X 3.38		1
16..	52725155	WLDMT- A2B BRKT		1
17..	51727792	FLIP SHEAVE ASM 6000/8600		1
18..	52725065	WLDMT- SNATCH BLOCK 7500/8600		1
19..	51727982	KIT-A2B LIMIT SWITCH NO TOP PIN DEUTSCH		1
20..	60030134	SHEAVE- 8.00 POLYMER		1
21..	60030433	WEAR PAD-RC 0.19 X 6.00X 4.00		1
22..	60030339	WEAR PAD-RND 0.19X 2.00X .60X .81		2
23..	60030432	WEAR PAD-RC 0.25 X 6.00X 5.00		1
24..	60030431	WEAR PAD-RC 0.25X 6.00X 1.25		4
25..	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
26..	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
27..	70034490	PLATE-ANGLE PLASTIC 3.50"		2
28..	60109337	RETAINER PLT-PIN 3.00 DIA		1
29..	60120138	SLIDE-ROTATION STOP 3816		1
30..	60128849	GEAR GUARD 6025 SII		1
31..	60136129	CAP-FIRST STAGE		1
32..	60140900	CAP-LOWER BOOM	110	1
33..	60136309	PIN-TYPE A 1.25X 4.27 (3.83)		1
34..	60127979	PLATE-EXT CYL C-CLIP		2
35..	70029595	THREADED PLUG 1.00-8 (3816)		2
36..	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN		1
37..	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
38..	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
39..	70580230	WIRE ROPE ASM-GALV .38(6/25)X85ft		1
40..	73734752	PIN-LOCK W/HANDLE 0.75 X 4.00 W/HAIRPIN		1
41..	70735093	TRANSM-RAD S3 SP EM 5LED FHSS 2400		A/R
42..	70734958	TRANSM-RAD REM TELE S3 FP GATED FHSS 240		A/R
43..	70734957	TRANSM-RAD REM TELE S3 NON-G FHSS 2400		A/R
44..	70734960	RECEIVER-RAD REM TELE S3 FP FHSS 2400		A/R
45..	70735094	RECEIVER-RAD S3 SP 5LED FHSS 2400		A/R
46..	71056543	GEAR ROTATOR 5020 170-00012-1		1
47..	76039295	GASKET-GEA19 008-10056-1	46	1
48..	71414204	PLATE-SINGLE SHEAVE (20#) .38 WIRE ROPE		1
49..	70570761	WINCH-PLANETARY 5500 LB LINE PULL		1
50..	72034485	CLAMP-PLASTIC 1/4" CABLE		8
51..	72063036	MACHY BUSHING 1.50X14 GA NR		A/R
52..	72063037	MACHY BUSHING 1.50X10 GA NR		A/R
53..	72063216	WASHER .62 N FLAT-CUT 3816		4
54..	73051919	MOTOR-HYD (101-2638-009)		1
55..	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		2
56..	73734727	VALVE BANK-4-SECT PSL2 W OC INTL		A/R
57..	77441481	HARNESS-TELE RADIO REMOTE SERIES III		1
58..	72060177	CAP SCR .62-11X 3.00 HH GR8 Z	1	15
59..	72063119	WASHER .62 FLAT ASTM F436	1	11

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
60.	72062108	NUT .50-20 HEX CENTER LOCKING	2	4
61.	72063132	WASHER .50 FLAT ASTM F436	2	4
62.	72602138	STUD .50-20X 2.25 DBL .50-13 GR8 STL	2	4
63.	72601797	WASHER-LOCK 8MM	3	4
64.	72602065	WASHER-FLAT M 8	3	4
65.	72602052	CAP SCR M 8-1.25X 16 HHZ	3	4
66.	72062194	NUT-SS .25-20 NYLOC	4	2
67.	72063166	WASHER-FLAT .25 R WRT 18-8 .620D SS	4	2
68.	72601846	CAP SCR .25-20X 1.25 HH SS	4	2
69.	70034382	CAP-GREASE PRO20 GC-RED	5	6
70.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	5	1
71.	72053301	COUPLING-GLV .12 SCH 40	5	1
72.	72053508	ZERK-NPT .12	5	4
73.	72060000	CAP SCR .25-20X .50 HH GR5 Z	5	2
74.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
75.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	5	12
76.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	5	1
77.	72060639	SCR-MACH 10-24X 1.25 RDH	5	2
78.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	5	2
79.	72062000	NUT .25-20 HEX	5	3
80.	72062093	NUT # 8-32 HEX ZINC	5	2
81.	72062103	NUT .38-16 HEX NYLOCK	5	2
82.	72062104	NUT .25-20 HEX NYLOCK	5	6
83.	72062106	NUT 10-24 HEX NYLOCK	5	7
84.	72063001	WASHER .25 FLAT	5	18
85.	72063003	WASHER .38 FLAT	5	8
86.	72063010	WASHER 1.00 FLAT	5	1
87.	72063035	MACHY BUSHING 1.25X10 GA NR	5	2
88.	72063049	WASHER .25 LOCK	5	2
89.	72063051	WASHER .38 LOCK	5	8
90.	72063053	WASHER .50 LOCK	5	12
91.	72063132	WASHER .50 FLAT ASTM F436	5	17
92.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	5	2
93.	72066129	RETAINING RING-EXT 1.25 HD	5	2
94.	72601938	BOLT-EYE # 8-32X 1.125	5	1
95.	72601949	CAP SCR .50-13X 1.25 SH ZC	5	2
96.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	5	1
97.	72661543	PIN-QUICK 316-10QP	5	2
98.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	5	3
99.	51395121	HOSE-AA .13 X 13.50 OAL (2-2)	5	1
100.	72532355	ADPTR-M STR/M JIC 6 6	6	1
101.	72532356	ADPTR-M STR/M JIC 8 6	6	6
102.	72532357	ADPTR-M STR/M JIC 6 8	6	1
103.	72532358	ADPTR-M STR/M JIC 8 8	6	3
104.	72532359	ADPTR-M STR/M JIC 10 8	6	2
105.	72532361	ADPTR-M STR/M JIC 8 10	6	1
106.	72532670	ELBOW-M JIC/45/F JIC 8 8	6	2
107.	72533583	ELBOW-M STR/45/M JIC 8 6	6	2
108.	72533613	ADPTR-M STR/M JIC 10 6	6	2
109.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW	5	1
110.	93725208	KIT-CABLE GUIDE 7500/8600S		1
111.	60144215	COVER-VALVE BANK SIII		1
112.	60140839	BRKT-MAST VB 6000-8600S		2
113.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
114.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
115.	77441537	HARNESS-S3 TELE S-PROP VALVE BANK CERVIS		A/R
116.	60030486	SPACER-A2B BRACKET		2
117.	60140934	GUIDE - CABLE WEAR (NARROW)	110	1
118.	60140937	BRKT - CABLE GUIDE (NARROW)	110	1
119.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	110	2
120.	72062104	NUT .25-20 HEX NYLOCK	110	2

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
121.	60143075	BRKT-MAST VB 6000-8600S FP		1
122.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
123.	72534898	O-RING EXTENDER 08-08		1
124.	72533623	ELBOW-M STR/90/M JIC 8 12		1
125.	72053767	ELBOW-M STR/90/M JIC 12 12		1
126.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST		1
127.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	6	1
128.	72062207	NUT 8-32 HEX NYLOCK		1
129.	72034572	CLAMP-PLASTIC .38 CABLE		1
130.	70735099	HOOK-SWVL BBRG 5TON W/LATCH		1
131.	72063186	WASHER-FLAT .38 N H ASTM F436		4
132.	70190005	PIN-TYPE AB 1.50 X 5.63 SS		1
133.	70190006	PIN-TYPE AB 1.50 X 9.13 SS		2
134.	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON		4
135.	70190003	RETAINER PLT-PIN 0.19 X 2.50 DIA SS		6
136.	72063144	WASHER-LOCK 1/2 SS	5	6
137.	72602168	CAP SCR HH 1/2-13 UNC -.875 SS 18-8	5	6
138.	60030590	WEAR PAD-RND 0.56X 2.44X .03		6
REV.AS, CN1066 & CN 1066, REV AR				

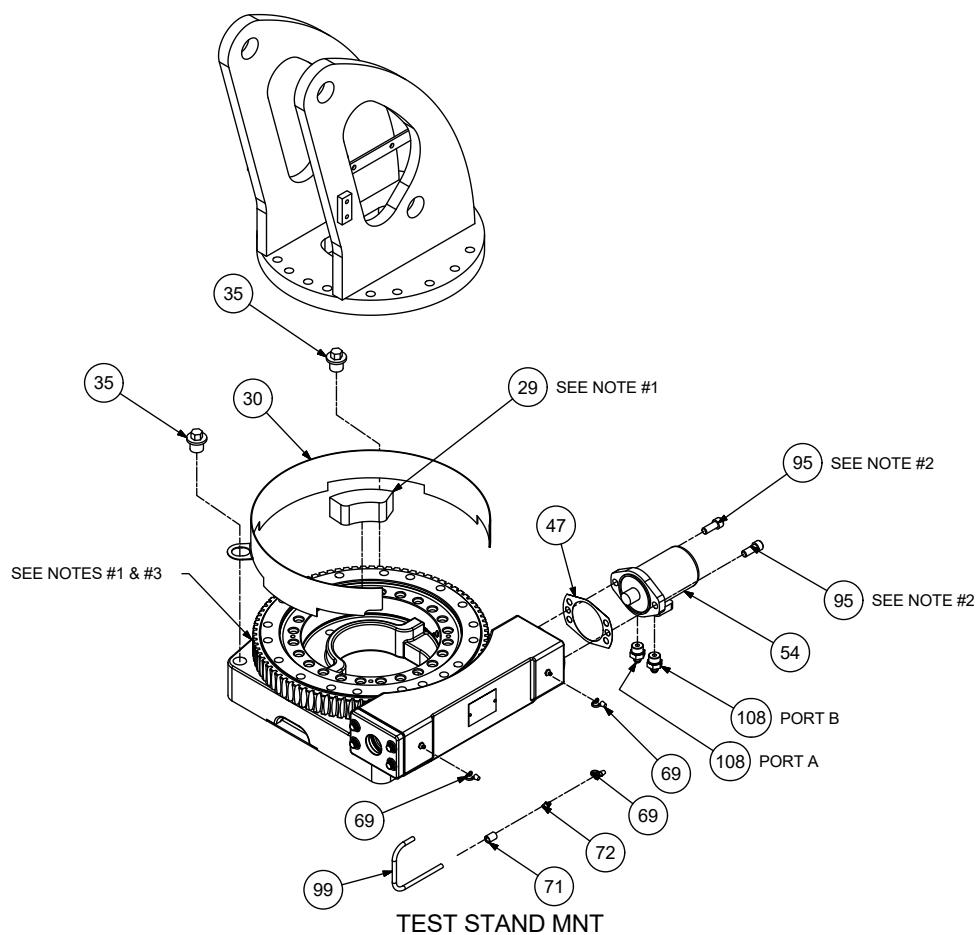
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8600 - 22' Crane Assembly, Test Stand Mount (99904970)

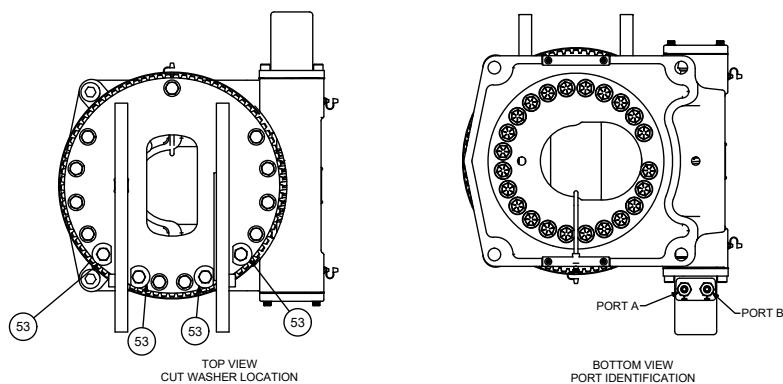


NOTES:

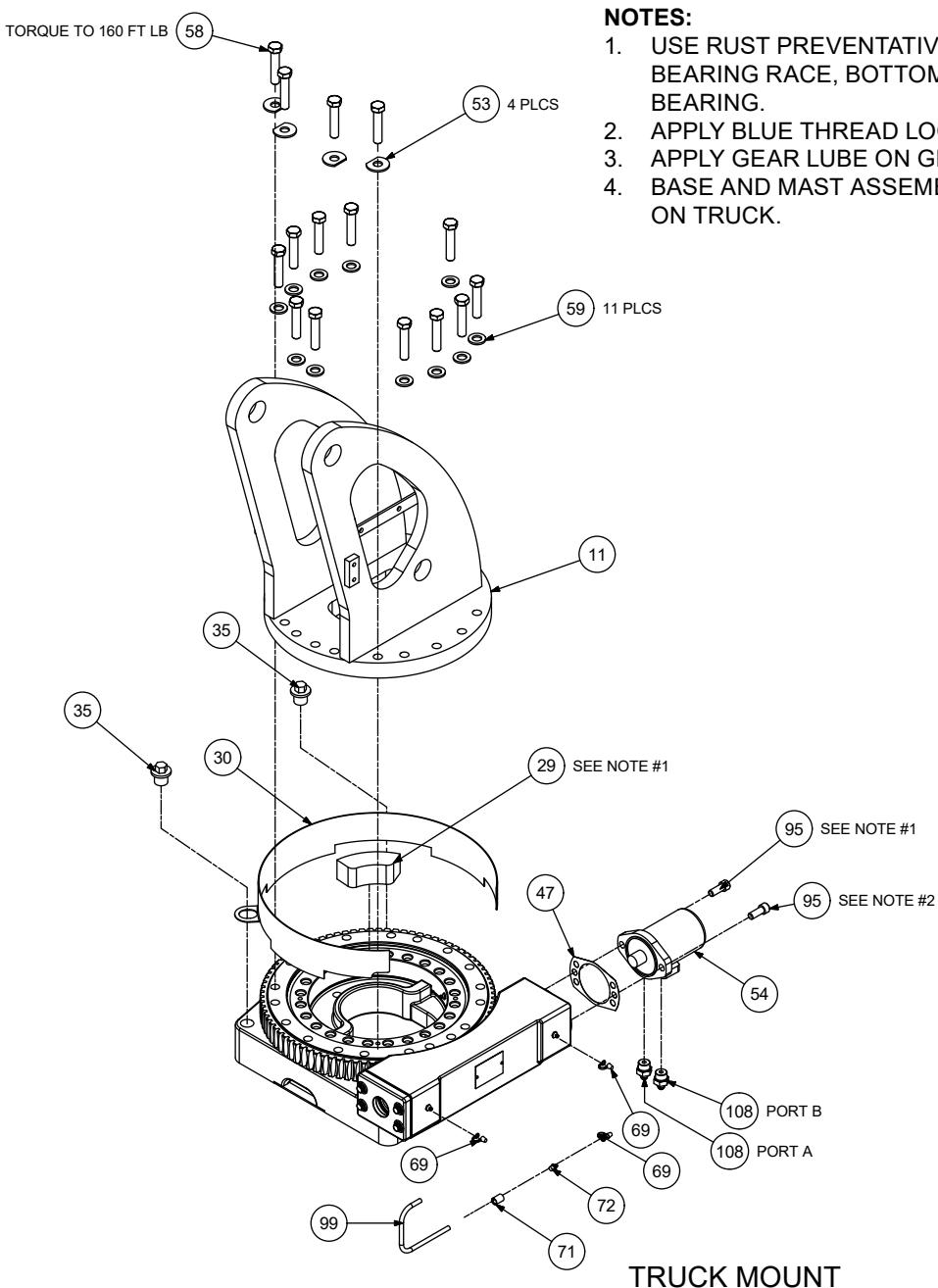
1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST & TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.
4. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON TEST STAND.



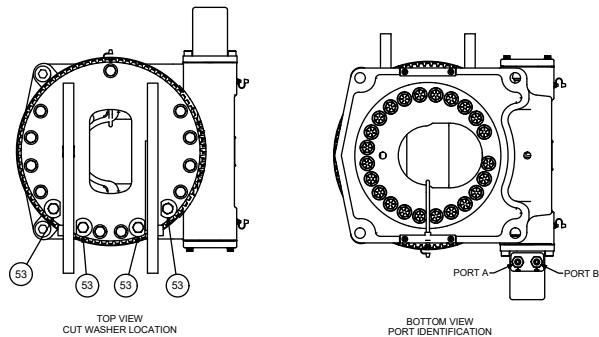
TEST STAND MNT



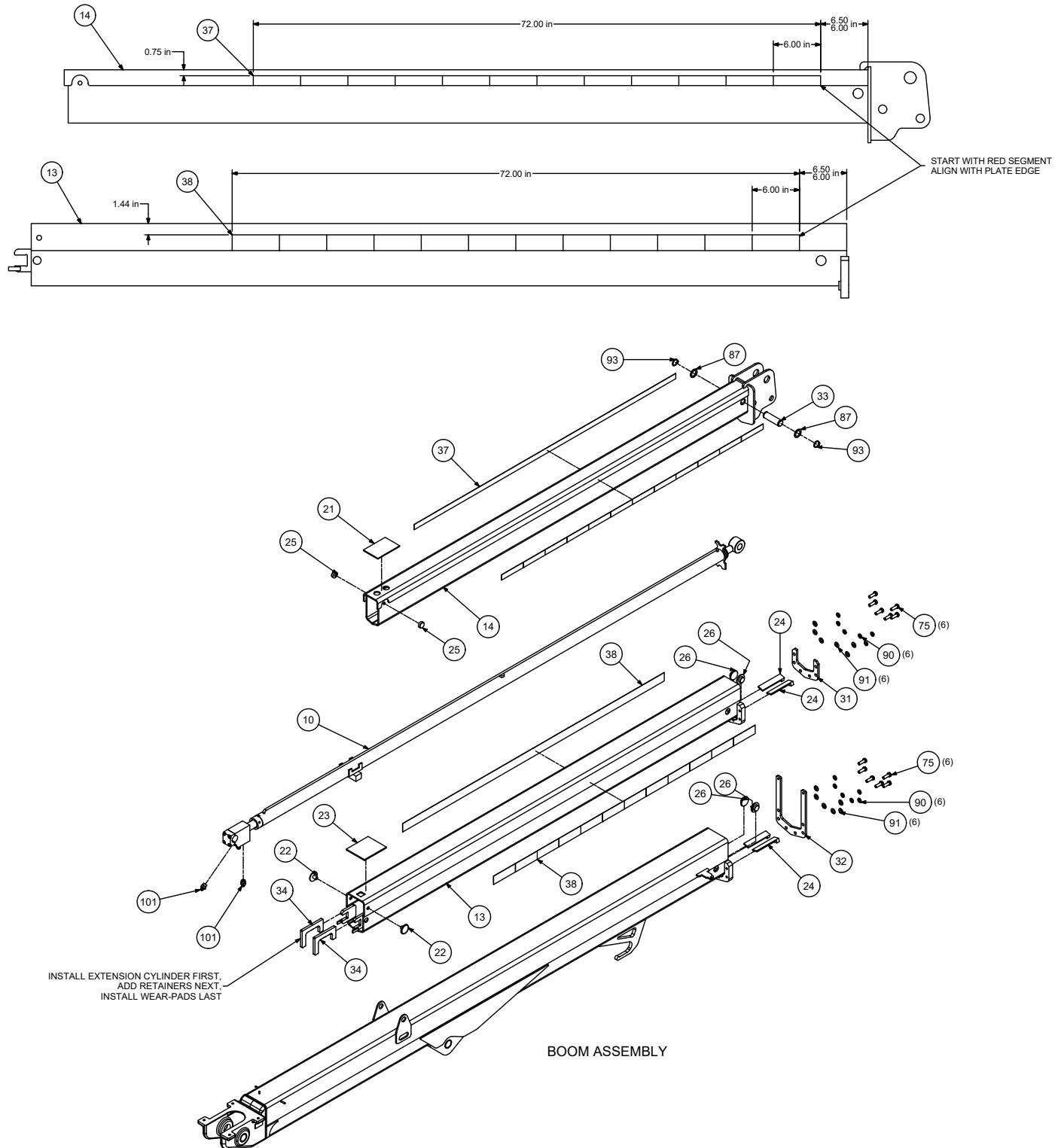
8600 - 22'Crane Assembly, Truck Mount (99904970)



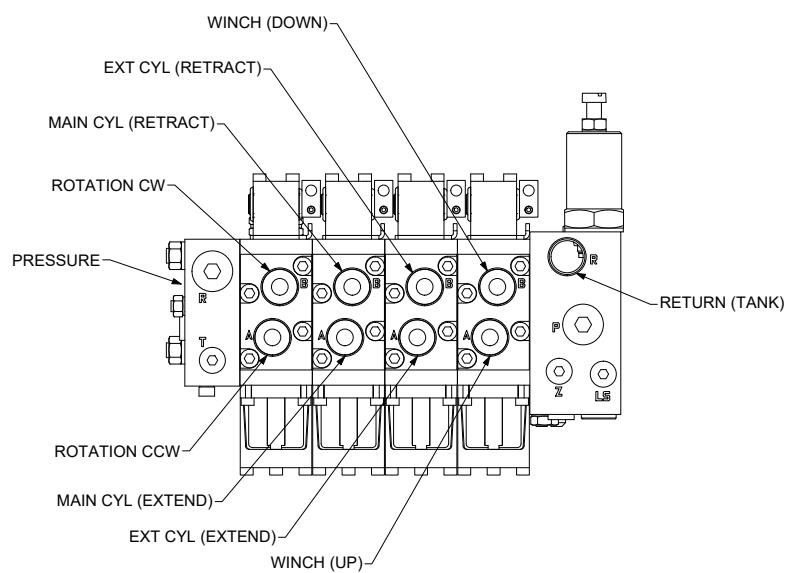
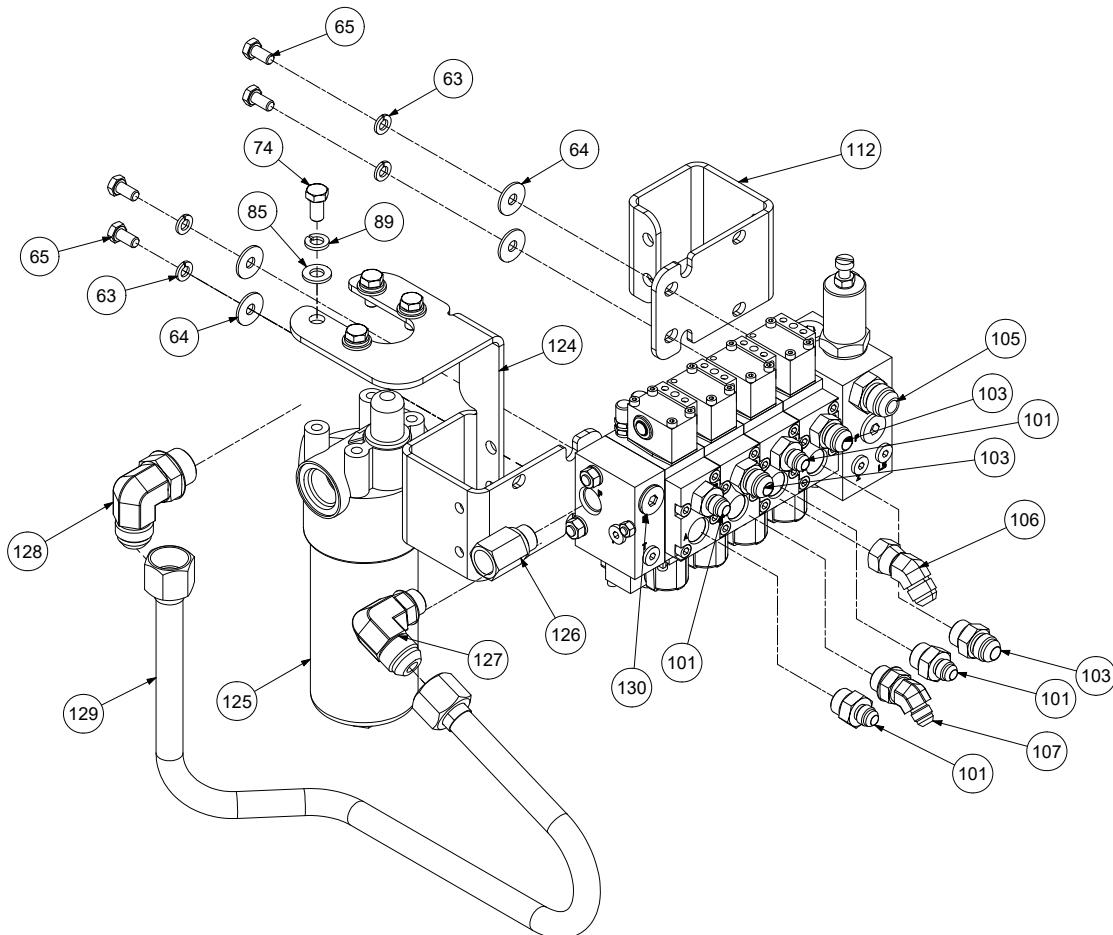
TRUCK MOUNT



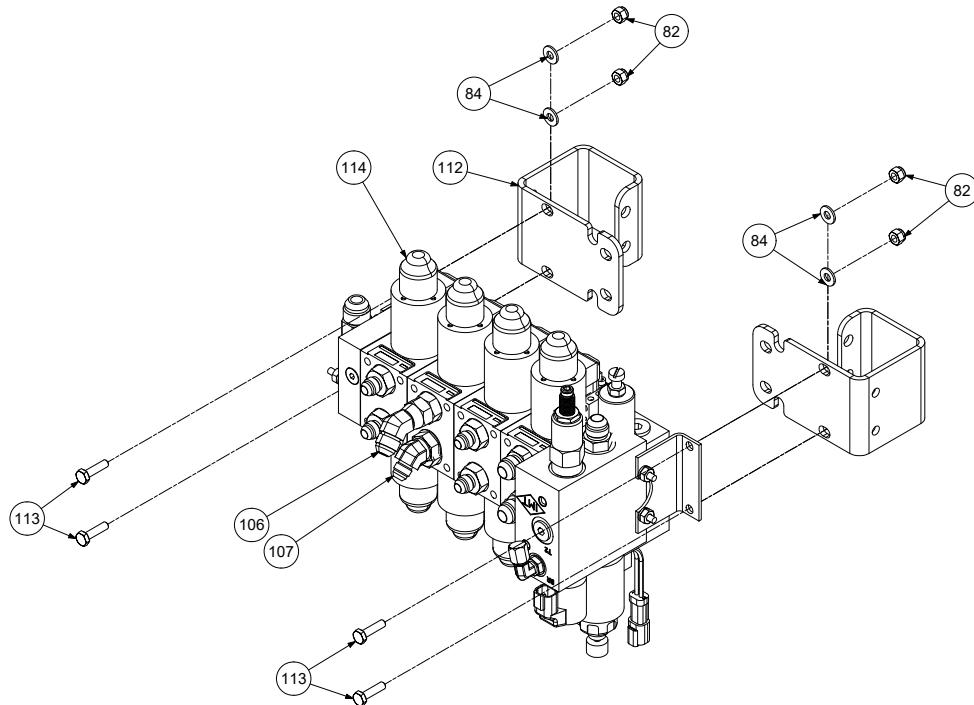
8600 - 22' Boom Assembly (99904970)



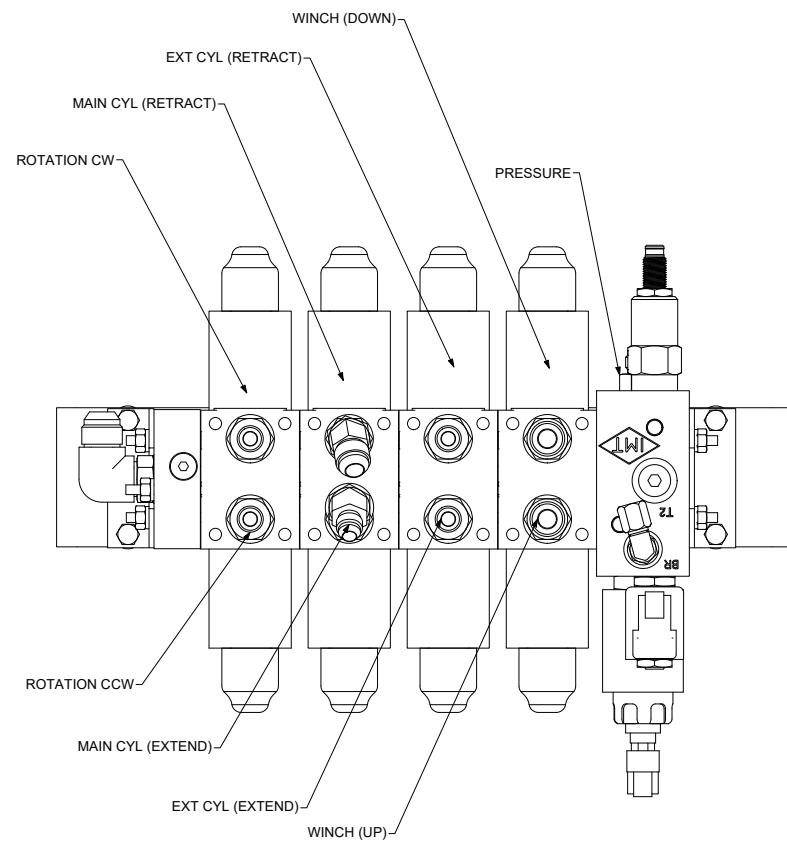
8600 - 22' Fully Proportional Valve Bank Assembly (99904970)

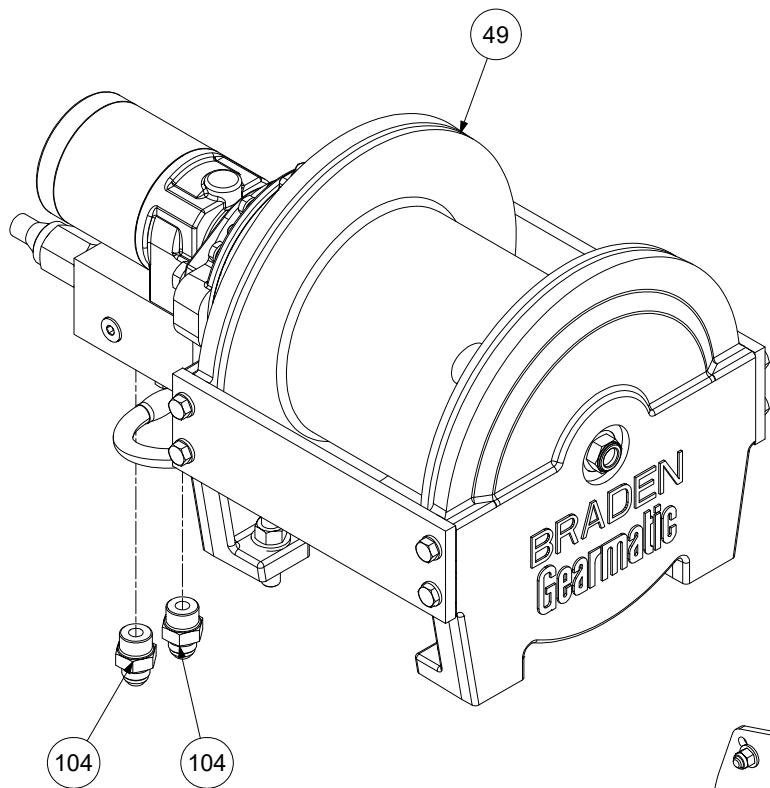
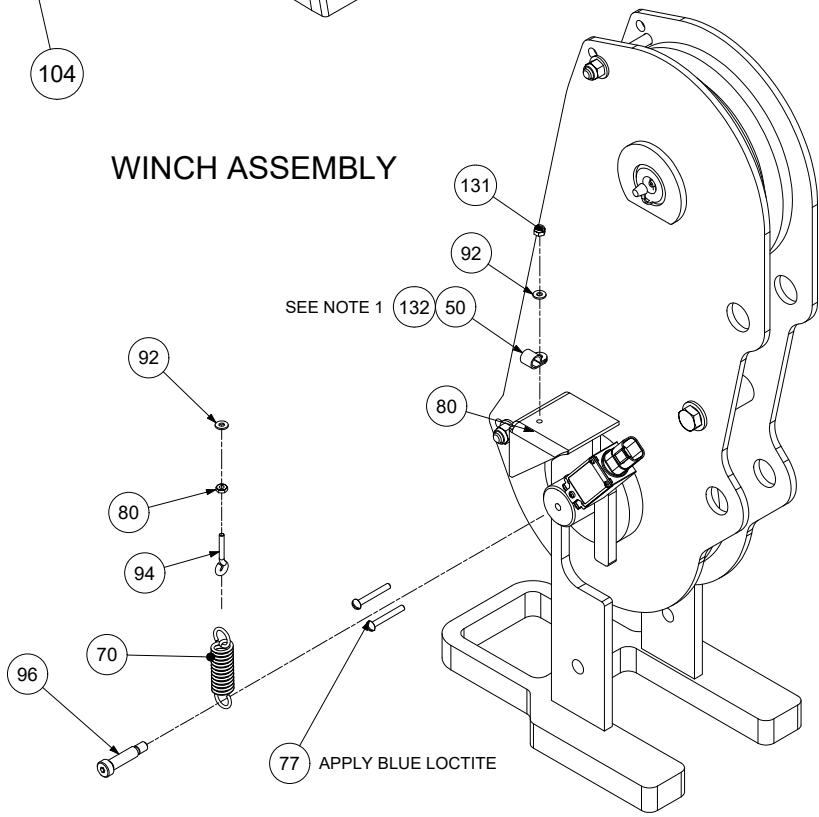


FULLY PROPORTIONAL VALVE BANK ASSEMBLY

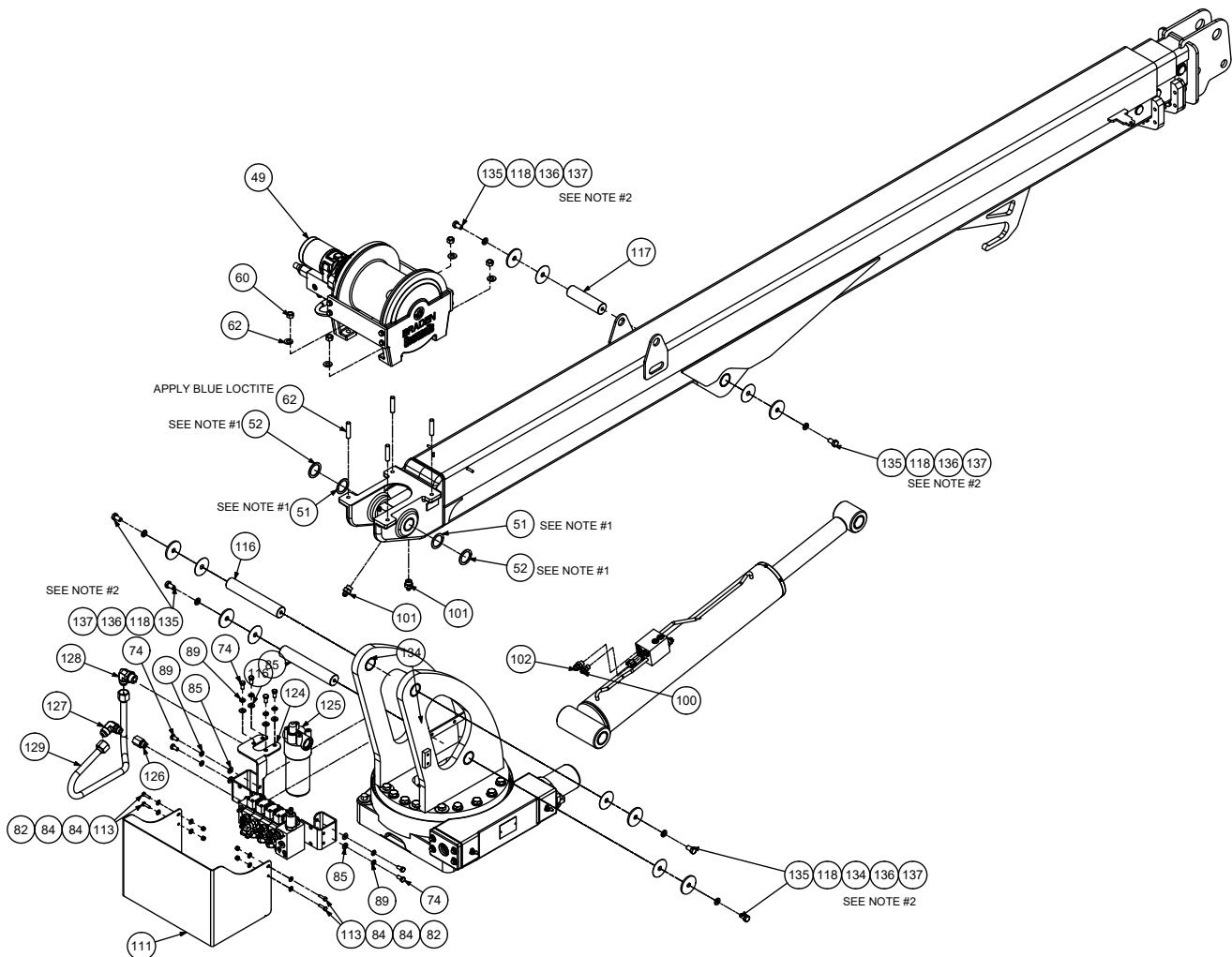
8600 - 22' Single Proportional Valve Bank Assembly (99904970)

SINGLE PROPORTIONAL VALVE BANK ASSEMBLY

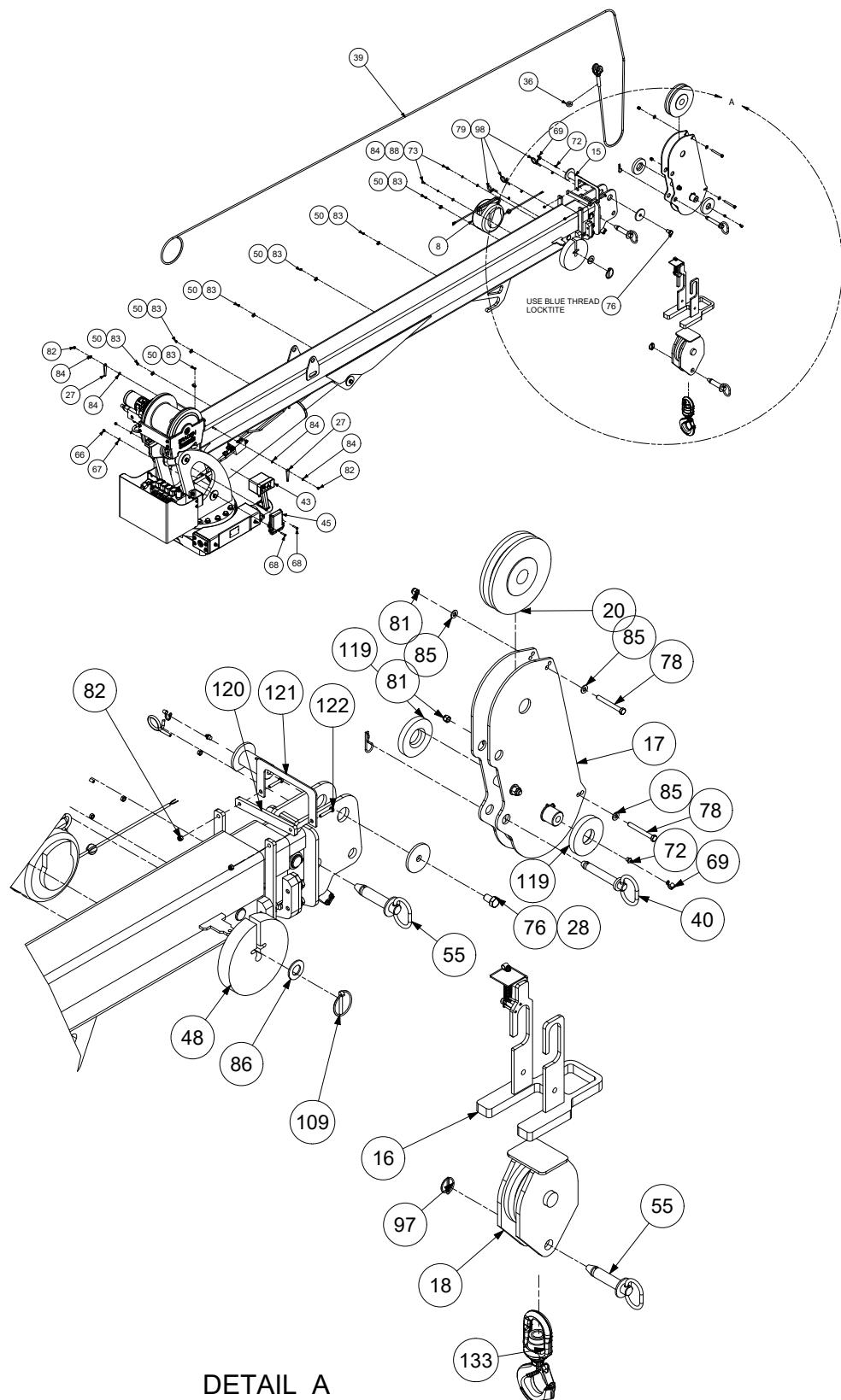


8600 - 22' Winch & Anti-Two Block Assembly (99904970)**WINCH ASSEMBLY****A2B ASSEMBLY****NOTE:**

1. NO FLOOD LIGHTS: USE CLAMP-PLASTIC .25 CABLE P/N 72034485.
2. WITH FLOOD LIGHTS: USE CLAMP-PLASTIC .38 CABLE P/N 72034572.

8600 - 22' Crane Assembly (99904970)**NOTES:**

1. IF REQUIRED USE 72063036 OR 72063037 MACHNY BUSHINGS BETWEEN MAST AND LOWER BOOM.
2. TORQUE TO 60 LB-FT.

8600 - 22' Flip Sheave & Snatch Block Assembly (99904970)

99904970 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91723654	KIT-HRDW BASE & MAST 7500/8600S		1
2.	91726834	KIT-HRDW WINCH MNT BG4-BG6		1
3.	91723543	KIT-HRDW VB MNT HAWE		1
4.	51719413	KIT-HRDW TELE CRANE RADIO CONTROLS		1
5.	91725204	KIT-HRDW SERIES III 7500/8600S		1
6.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
7.	91726823	KIT-HYD BG4 SERIES III SP 7500/8600S		A/R
8.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
9.	51727886	CYL-4.50/2.25 25.06S 45.52CC		1
10.	51727915	CYL-2.00/1.50 2.00/1.25 59.75S 52.25S		1
11.	52727808	MAST WLDMNT-SERIES III S		1
12.	52727813	WLDMNT-LOWER BOOM 7500-8600S		1
13.	52725159	WLDMNT-1st STAGE EXT BOOM 7500S		1
14.	52723169	WLDMNT-2ND STAGE EXT BOOM 7500/8600		1
15.	52723030	PIN-TYPE M 1.50X 3.38		1
16.	52725155	WLDMT- A2B BRKT		1
17.	51727792	FLIP SHEAVE ASM 6000/8600		1
18.	52725065	WLDMT- SNATCH BLOCK 7500/8600		1
19.	51727982	KIT-A2B LIMIT SWITCH NO TOP PIN DEUTSCH		1
20.	60030134	SHEAVE- 8.00 POLYMER		1
21.	60030433	WEAR PAD-RC 0.19 X 6.00X 4.00		1
22.	60030339	WEAR PAD-RND 0.19X 2.00X .60X .81		2
23.	60030432	WEAR PAD-RC 0.25 X 6.00X 5.00		1
24.	60030431	WEAR PAD-RC 0.25X 6.00X 1.25		4
25.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
26.	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
27.	70034490	PLATE-ANGLE PLASTIC 3.50"		2
28.	60109337	RETAINER PLT-PIN 3.00 DIA		1
29.	60120138	SLIDE-ROTATION STOP 3816		1
30.	60128849	GEAR GUARD 6025 SII		1
31.	60136129	CAP-FIRST STAGE		1
32.	60140900	CAP-LOWER BOOM	110	1
33.	60136309	PIN-TYPE A 1.25X 4.27 (3.83)		1
34.	60127979	PLATE-EXT CYL C-CLIP		2
35.	70029595	THREADED PLUG 1.00-8 (3816)		2
36.	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN		1
37.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
38.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
39.	70580230	WIRE ROPE ASM-GALV .38(6/25)X85ft		1
40.	73734752	PIN-LOCK W/HANDLE 0.75 X 4.00 W/HAIRPIN		1
41.	70735093	TRANSM-RAD S3 SP EM 5LED FHSS 2400		A/R
42.	70734958	TRANSM-RAD REM TELE S3 FP GATED FHSS 240		A/R
43.	70734957	TRANSM-RAD REM TELE S3 FP NON-G FHSS 240		A/R
44.	70735094	RECEIVER-RAD S3 SP 5LED FHSS 2400		A/R
45.	70734960	RECEIVER-RAD REM TELE S3 FP FHSS 2400		A/R
46.	71056543	GEAR ROTATOR 5020 170-00012-1		1
47.	76039295	GASKET-GEA19 008-10056-1	46	1
48.	71414204	PLATE-SINGLE SHEAVE (20#) .38 WIRE ROPE		1
49.	70570761	WINCH-PLANETARY 5500 LB LINE PULL		1
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
51.	72063036	MACHY BUSHING 1.50X14 GA NR		A/R
52.	72063037	MACHY BUSHING 1.50X10 GA NR		A/R
53.	72063216	WASHER .62 N FLAT-CUT 3816		4
54.	73051919	MOTOR-HYD (101-2638-009)		1
55.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		2
56.	73734727	VALVE BANK-4-SECT PSL2 W OC INLT		A/R
57.	77441481	HARNESS-TELE RADIO REMOTE SERIES III		A/R
58..	72060177	CAP SCR .62-11X 3.00 HH GR8 Z	1	15
59.	72063119	WASHER .62 FLAT ASTM F436	1	11

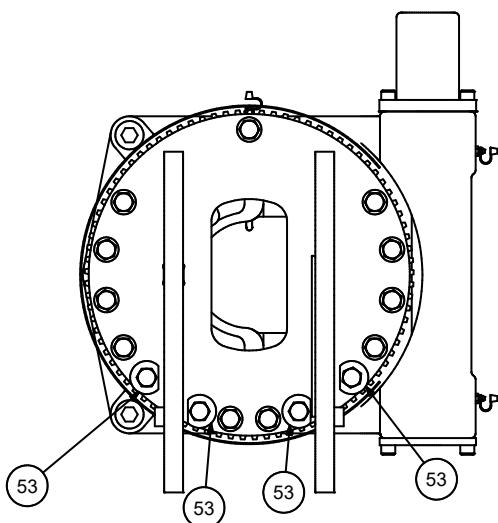
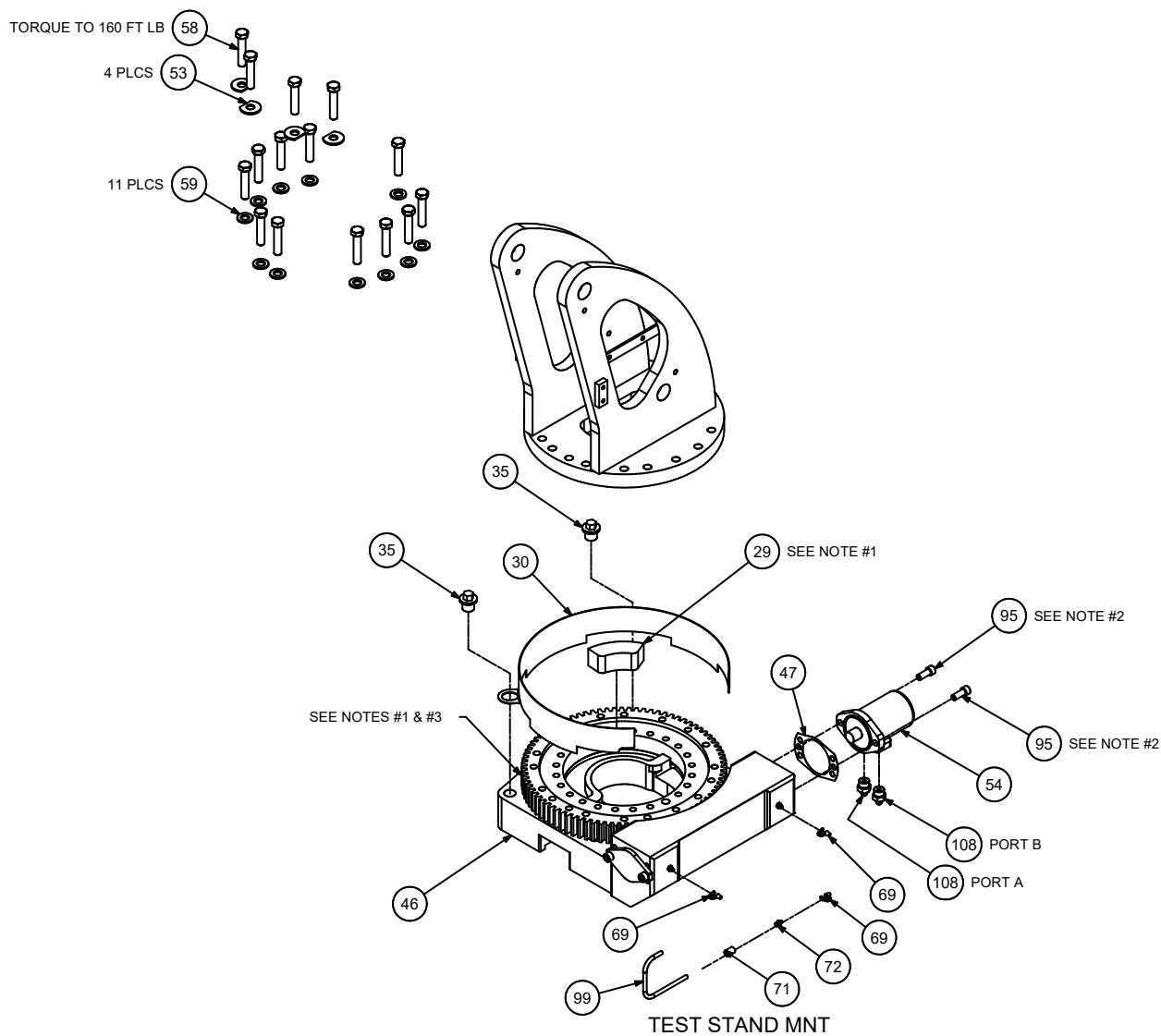
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
60.	72062108	NUT .50-20 HEX CENTER LOCKING	2	4
61.	72063132	WASHER .50 FLAT ASTM F436	2	4
62.	72602138	STUD .50-20X 2.25 DBL .50-13 GR8 STL	2	4
63.	72601797	WASHER-LOCK 8MM	3	4
64.	72602065	WASHER-FLAT M 8	3	4
65.	72602052	CAP SCR M 8-1.25X 16 HHZ	3	4
66.	72062194	NUT-SS .25-20 NYLOC	4	2
67.	72063166	WASHER-FLAT .25 R WRT 18-8 .620D SS	4	2
68.	72601846	CAP SCR .25-20X 1.25 HH SS	4	2
69.	70034382	CAP-GREASE PRO20 GC-RED	5	6
70.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	5	1
71.	72053301	COUPLING-GLV .12 SCH 40	5	1
72.	72053508	ZERK-NPT .12	5	4
73.	72060000	CAP SCR .25-20X .50 HH GR5 Z	5	2
74.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
75.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	5	12
76.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	5	1
77.	72060640	SCR-MACH 10-24X 1.50 RDH	5	2
78.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	5	2
79.	72062000	NUT .25-20 HEX	5	3
80.	72062093	NUT # 8-32 HEX ZINC	5	2
81.	72062103	NUT .38-16 HEX NYLOCK	5	2
82.	72062104	NUT .25-20 HEX NYLOCK	5	6
83.	72062106	NUT 10-24 HEX NYLOCK	5	7
84.	72063001	WASHER .25 FLAT	5	18
85.	72063003	WASHER .38 FLAT	5	12
86.	72063010	WASHER 1.00 FLAT	5	1
87.	72063035	MACHY BUSHING 1.25X10 GA NR	5	2
88.	72063049	WASHER .25 LOCK	5	2
89.	72063051	WASHER .38 LOCK	5	8
90.	72063053	WASHER .50 LOCK	5	12
91.	72063132	WASHER .50 FLAT ASTM F436	5	17
92.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	5	2
93.	72066129	RETAINING RING-EXT 1.25 HD	5	2
94.	72601938	BOLT-EYE # 8-32X 1.125	5	1
95.	72601949	CAP SCR .50-13X 1.25 SH ZC	5	2
96.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	5	1
97.	72661543	PIN-QUICK 316-10QP	5	2
98.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	5	3
99.	51395121	HOSE-AA .13 X 13.50 OAL (2-2)	5	1
100.	72532355	ADPTR-M STR/M JIC 6 6	6	1
101.	72532356	ADPTR-M STR/M JIC 8 6	6	6
102.	72532357	ADPTR-M STR/M JIC 6 8	6	1
103.	72532358	ADPTR-M STR/M JIC 8 8	6	3
104.	72532359	ADPTR-M STR/M JIC 10 8	6	2
105.	72532361	ADPTR-M STR/M JIC 8 10	6	1
106.	72532670	ELBOW-M JIC/45/F JIC 8 8	6	1
107.	72533583	ELBOW-M STR/45/M JIC 8 6	6	1
108.	72533613	ADPTR-M STR/M JIC 10 6	6	2
109.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW	5	1
110.	93725208	KIT-CABLE GUIDE 7500/8600S		1
111.	60144215	COVER-VALVE BANK SIII		1
112.	60140839	BRKT-MAST VB 6000-8600S		2
113.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
114.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
115.	77441537	HARNESS-S3 TELE S-PROP VALVE BANK CERVIS		A/R
116.	70190006	PIN-TYPE AB 1.50 X 9.13 SS		2
117.	70190005	PIN-TYPE AB 1.50 X 5.63 SS		1
118.	70190003	RETAINER PLT-PIN 0.19 X 2.50 DIA SS		6
119.	60030486	SPACER-A2B BRACKET		2
120.	60140934	GUIDE - CABLE WEAR (NARROW)	110	1

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
121.	60140937	BRKT - CABLE GUIDE (NARROW)	110	1
122.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	110	2
123.	72062104	NUT .25-20 HEX NYLOCK	110	2
124.	60143075	BRKT-MAST VB 6000-8600S FP		1
125.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
126.	72534898	O-RING EXTENDER 08-08		1
127.	72533623	ELBOW-M STR/90/M JIC 8 12		1
128.	72053767	ELBOW-M STR/90/M JIC 12 12		1
129.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST		1
130.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	6	1
131.	72062207	NUT 8-32 HEX NYLOCK		1
132.	72034572	CLAMP-PLASTIC .38 CABLE		1
133.	70735099	HOOK-SWVL BBRG 5TON W/LATCH		1
134.	70034579	BEARING MRP 1.50X1.75X1.00 POLYGON		4
135.	72602168	CAP SCR .50-13X .88 HH SS	5	6
136.	72063144	WASHER-SS .50 LOCK TYPE 304	5	6
137.	60030590	WEAR PAD-RND 0.56X 2.44X .03		6

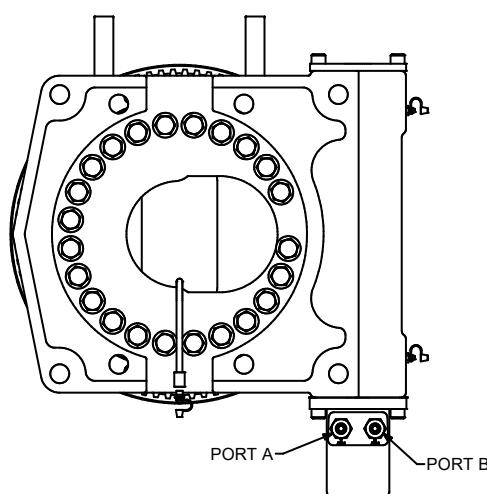
REV AS, CN1009-3 & CN 1066, REV. AR

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8600 22' - Crane Assembly Test Stand Mount (99904970)



TOP VIEW
CUT WASHER LOCATION



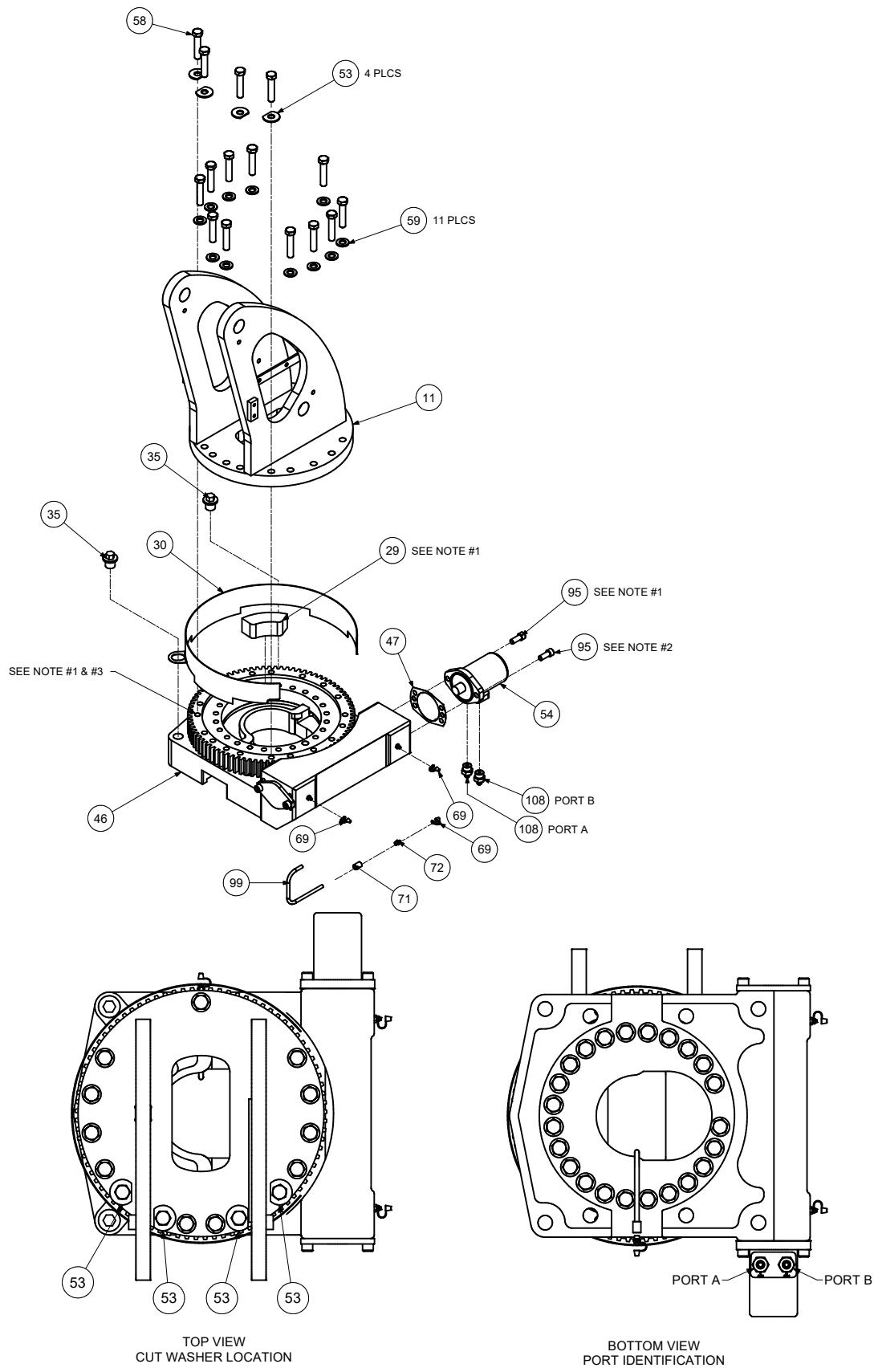
BOTTOM VIEW
PORT IDENTIFICATION

99904970-TEST STAND MOUNT PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91723654	KIT-HRDW BASE & MAST 7500/8600S		1
5.	91725204	KIT-HRDW SERIES III 7500/8600S		1
6.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		
29.	60120138	SLIDE-ROTATION STOP 3816		1
30.	60128849	GEAR GUARD 6025 SII		1
34.	60127979	PLATE-EXT CYL C-CLIP		2
35.	70029595	THREADED PLUG 1.00-8 (3816)		2
46.	71056543	GEAR ROTATOR 5020 170-00012-1		1
47.	76039295	GASKET-GEA19 008-10056-1	46	1
53.	72063216	WASHER .62 N FLAT-CUT 3816		4
54.	73051919	MOTOR-HYD (101-2638-009)		1
58.	72060177	CAP SCR .62-11X 3.00 HH GR8 Z	1	15
59.	72063119	WASHER .62 FLAT ASTM F436	1	11
69.	70034382	CAP-GREASE PRO20 GC-RED	5	6
71.	72053301	COUPLING-GLV .12 SCH 40	5	1
72.	72053508	ZERK-NPT .12	5	4
95.	72601949	CAP SCR .50-13X 1.25 SH ZC	5	2
99.	51395121	HOSE-AA .13 X 13.50 OAL (2-2)	5	1
108.	72533613	ADPTR-M STR/M JIC 10 6	6	2
REV. AM CN1111				

NOTES:

1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST & TOP OF GEAR BEARING.
2. APPLY BLUE TREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.
4. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON TEST STAND.

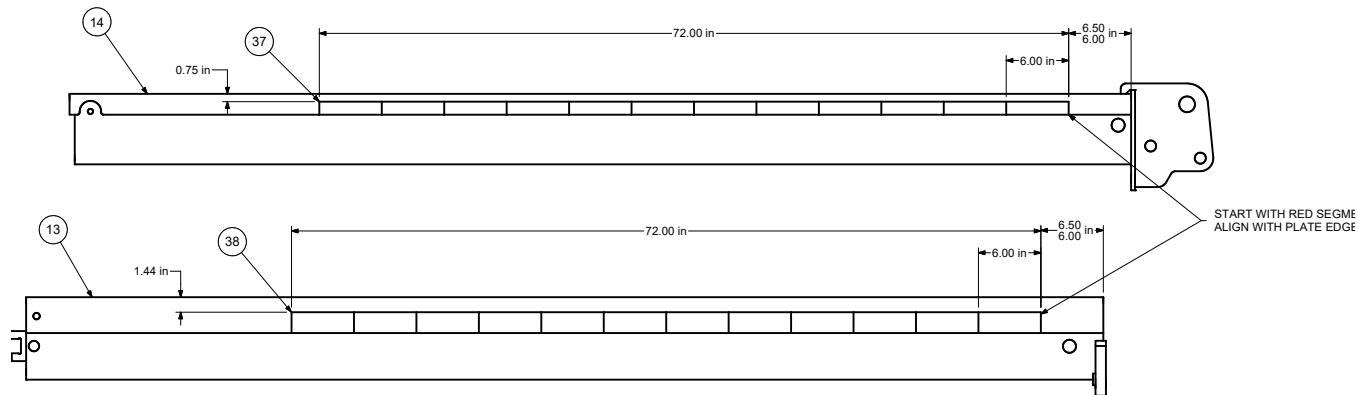
99904970-1

99904970-1 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1..	91723654	KIT-HRDW BASE & MAST 7500/8600S		1
5.	91725204	KIT-HRDW SERIES III 7500/8600S		1
6.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
11	52725122	MAST WLDmnt-SERIES III S		1
29.	60120138	SLIDE-ROTATION STOP 3816		1
30.	60128849	GEAR GUARD 6025 SII		1
35..	70029595	THREADED PLUG 1.00-8 (3816)		2
46.	71056543	GEAR ROTATOR 5020 170-00012-1		1
47.	76039295	GASKET-GEA19 008-10056-1	46	1
53.	72063216	WASHER .62 N FLAT-CUT 3816		4
54.	73051919	MOTOR-HYD (101-2638-009)		1
58.	72060177	CAP SCR .62-11X 3.00 HH GR8 Z	1	15
59.	72063119	WASHER .62 FLAT ASTM F436	1	11
69.	70034382	CAP-GREASE PRO20 GC-RED	5	6
71.	72053301	COUPLING-GLV .12 SCH 40	5	1
72.	72053508	ZERK-NPT .12	5	4
95.	72601949	CAP SCR .50-13X 1.25 SH ZC	5	2
99.	51395121	HOSE-AA .13 X 13.50 OAL (2-2)	5	1
108.	72533613	ADPTR-M STR/M JIC 10 6	6	2
REV. AM CN1111				

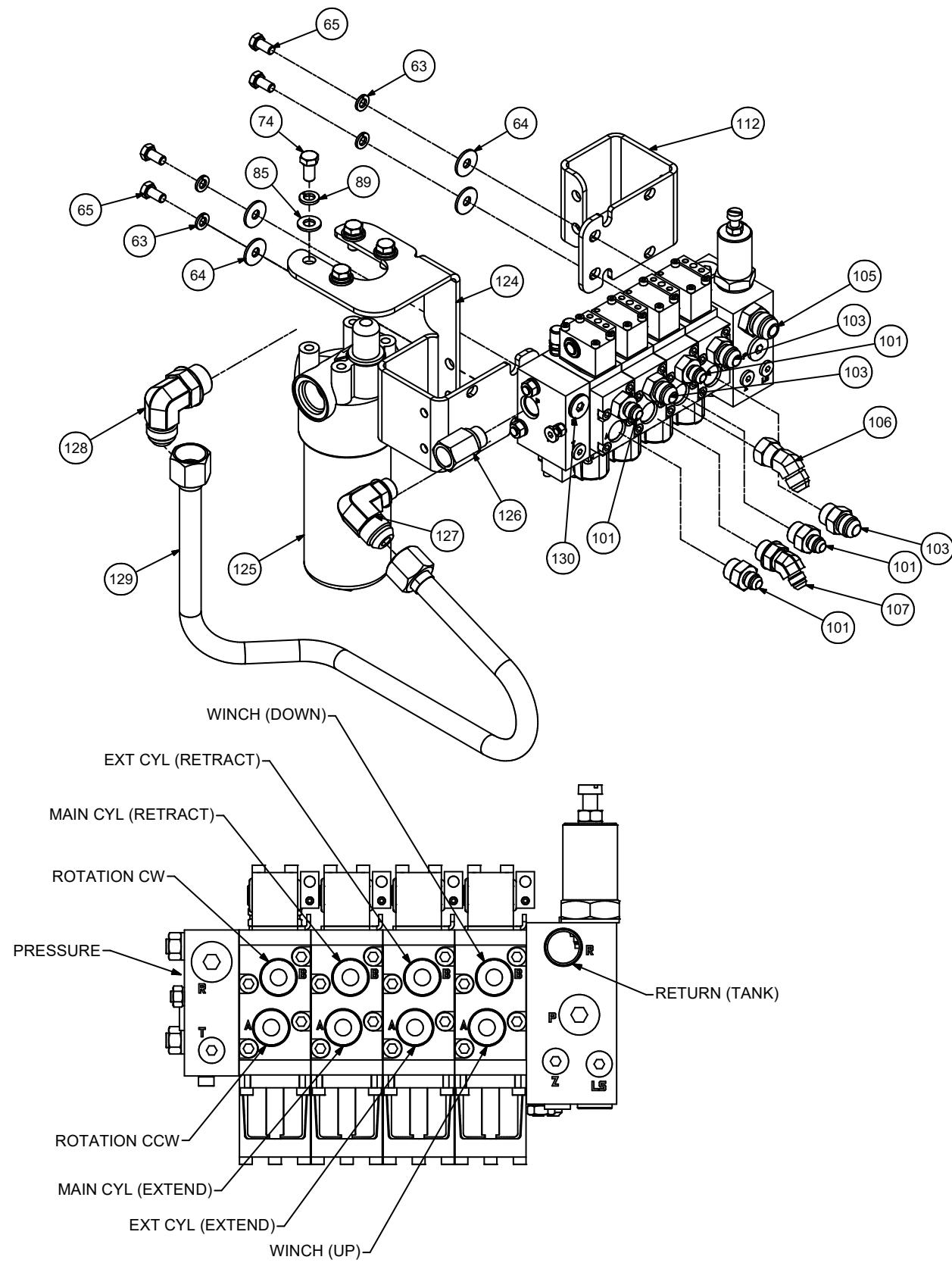
NOTES:

1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST & TOP OF GEAR BEARING.
2. APPLY BLUE TREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.
4. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON TRUCK.

99904970-2

99904970-2 PARTS LIST

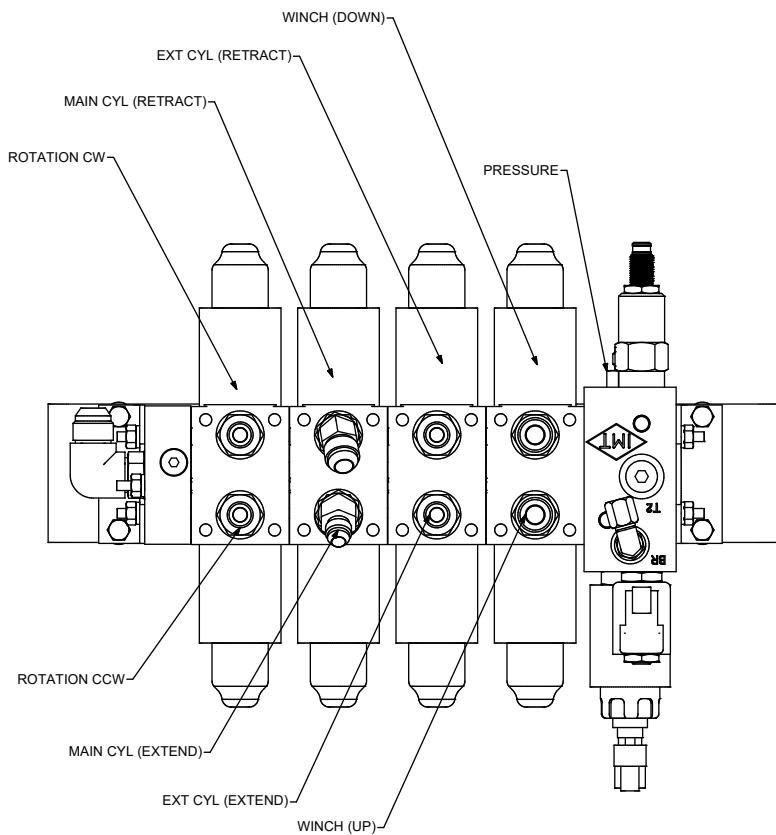
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
13.	52725159	WLDMMNT-1st STAGE EXT BOOM 7500S		1
14.	52723169	WLDMMNT-2ND STAGE EXT BOOM 7500/8600		1
37.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
38.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
REV. AM CN1111				

99904970-3**FULLY PROPORTIONAL VALVE BANK ASSEMBLY**

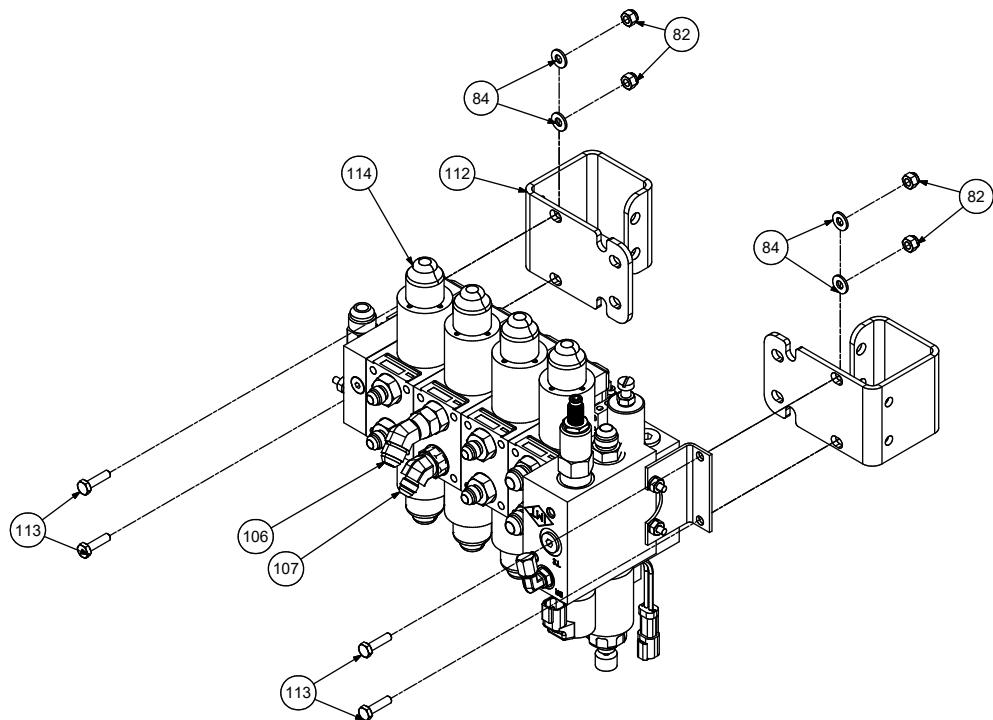
99904970-3 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
3.	91723543	KIT-HRDW VB MNT HAWE		1
5.	91725204	KIT-HRDW SERIES III 7500/8600S		1
6.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
63.	72601797	WASHER-LOCK 8MM	3	4
64.	72602065	WASHER-FLAT M 8	3	4
65.	72602052	CAP SCR M 8-1.25X 16 HHZ	3	4
74.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
85.	72063003	WASHER .38 FLAT	5	12
89.	72063051	WASHER .38 LOCK	5	8
101.	72532356	ADPTR-M STR/M JIC 8 6	6	6
103.	72532358	ADPTR-M STR/M JIC 8 8	6	3
105.	72532361	ADPTR-M STR/M JIC 8 10	6	1
106.	72532670	ELBOW-M JIC/45/F JIC 8 8	6	1
107.	72533583	ELBOW-M STR/45/M JIC 8 6	6	1
112.	60140839	BRKT-MAST VB 6000-8600S		2
124.	60143075	BRKT-MAST VB 6000-8600S FP		1
125.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
126.	72534898	O-RING EXTENDER 08-08		1
127.	72533623	ELBOW-M STR/90/M JIC 8 12		1
128.	72053767	ELBOW-M STR/90/M JIC 12 12		1
129.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST		1
130.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	6	1

REV. AM CN111

99904970-4

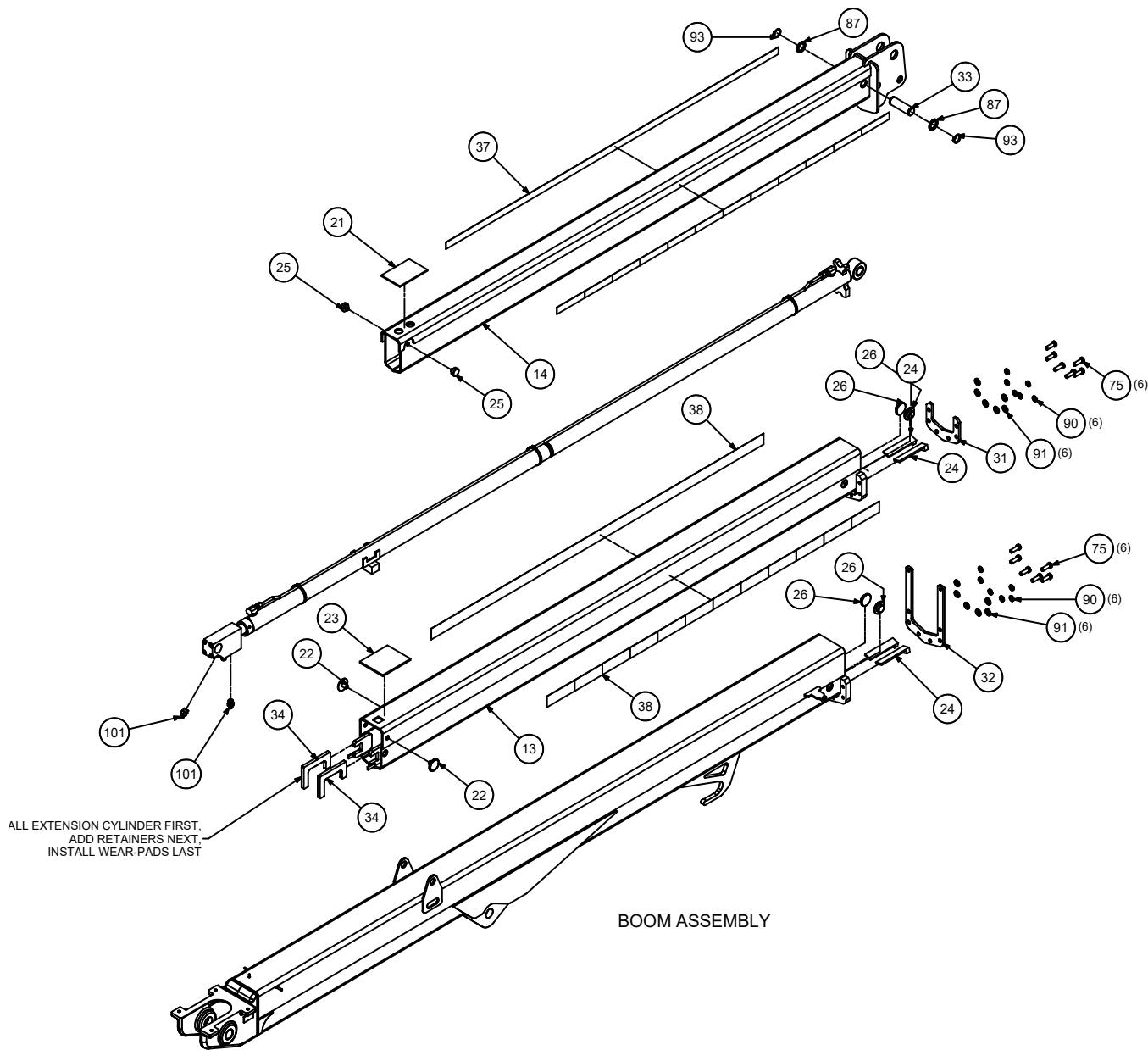
SINGLE PROPORTIONAL VALVE BANK ASSEMBLY



99904970-4 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
5.	91725204	KIT-HRDW SERIES III 7500/8600S		A/R
6.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
82.	72062104	NUT .25-20 HEX NYLOCK	5	6
84.	72063001	WASHER .25 FLAT	5	18
106.	72532670	ELBOW-M JIC/45/F JIC 8 8	6	1
107.	72533583	ELBOW-M STR/45/M JIC 8 6	6	1
112.	60140839	BRKT-MAST VB 6000-8600S		2
113.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
114.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R

REV. AM CN111

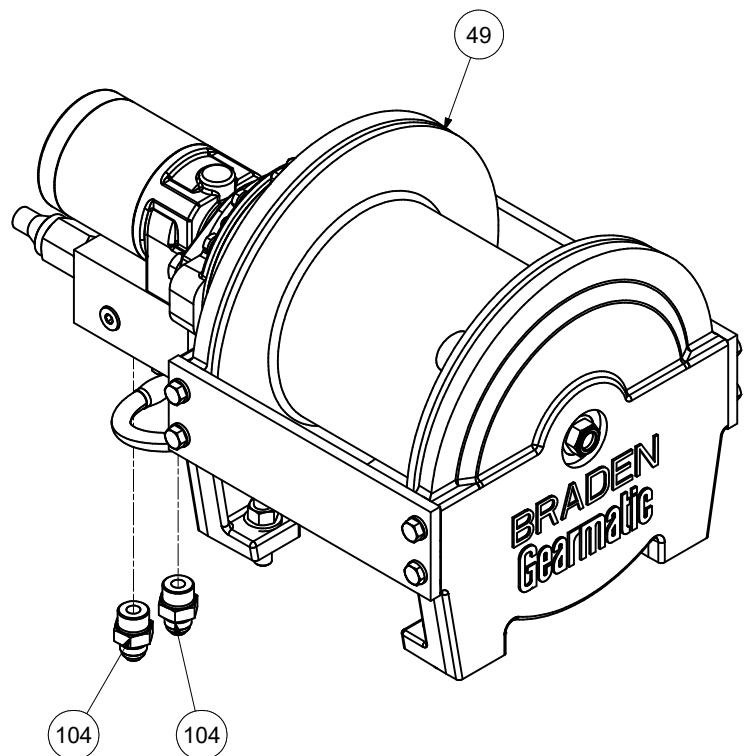
99904970-5

99904970-5 PARTS LIST

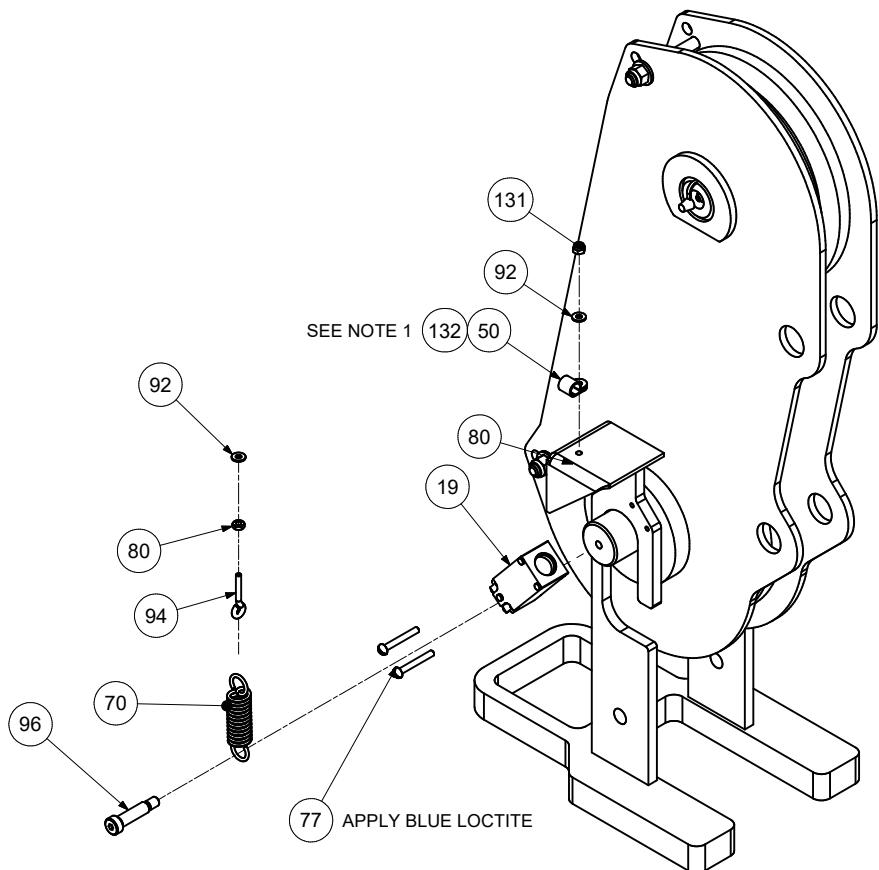
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
5..	91725204	KIT-HRDW SERIES III 7500/8600S		1
6..	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
13..	52725159	WLDMNT-1st STAGE EXT BOOM 7500S		1
14..	52723169	WLDMNT-2ND STAGE EXT BOOM 7500/8600		1
21..	60030433	WEAR PAD-RC .19 X 6.00X 4.00		1
22..	60030339	WEAR PAD-RND 0.19X 2.00X .60X .81		2
23..	60030432	WEAR PAD-RC .25 X 6.00X 5.00		1
24..	60030431	WEAR PAD-RC .25X 6.00X 1.25		4
25..	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
26..	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
31..	60136129	CAP-FIRST STAGE		1
32..	60140900	CAP-LOWER BOOM	110	1
33..	60136309	PIN-TYPE A 1.25X 4.27 (3.83)		1
34..	60127979	PLATE-EXT CYL C-CLIP		2
37..	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
38..	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
75..	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	5	15
87..	72063035	MACHY BUSHING 1.25X10 GA NR	5	2
90..	72063053	WASHER .50 LOCK	5	15
91..	72063132	WASHER .50 FLAT ASTM F436	5	17
93..	72066129	RETAINING RING-EXT 1.25 HD	5	2
101..	72532356	ADPTR-M STR/M JIC 8 6	6	6
110..	93725208	KIT-CABLE GUIDE 7500/8600S		1
REV. AM CN1111				

NOTES:

1. CYLINDER CAP & CAP SCREWS ARE INCLUDED WITH THE EXTENSION CYLINDER.
2. USE BLUE THREAD LOCKER.

99904970-6

WINCH ASSEMBLY



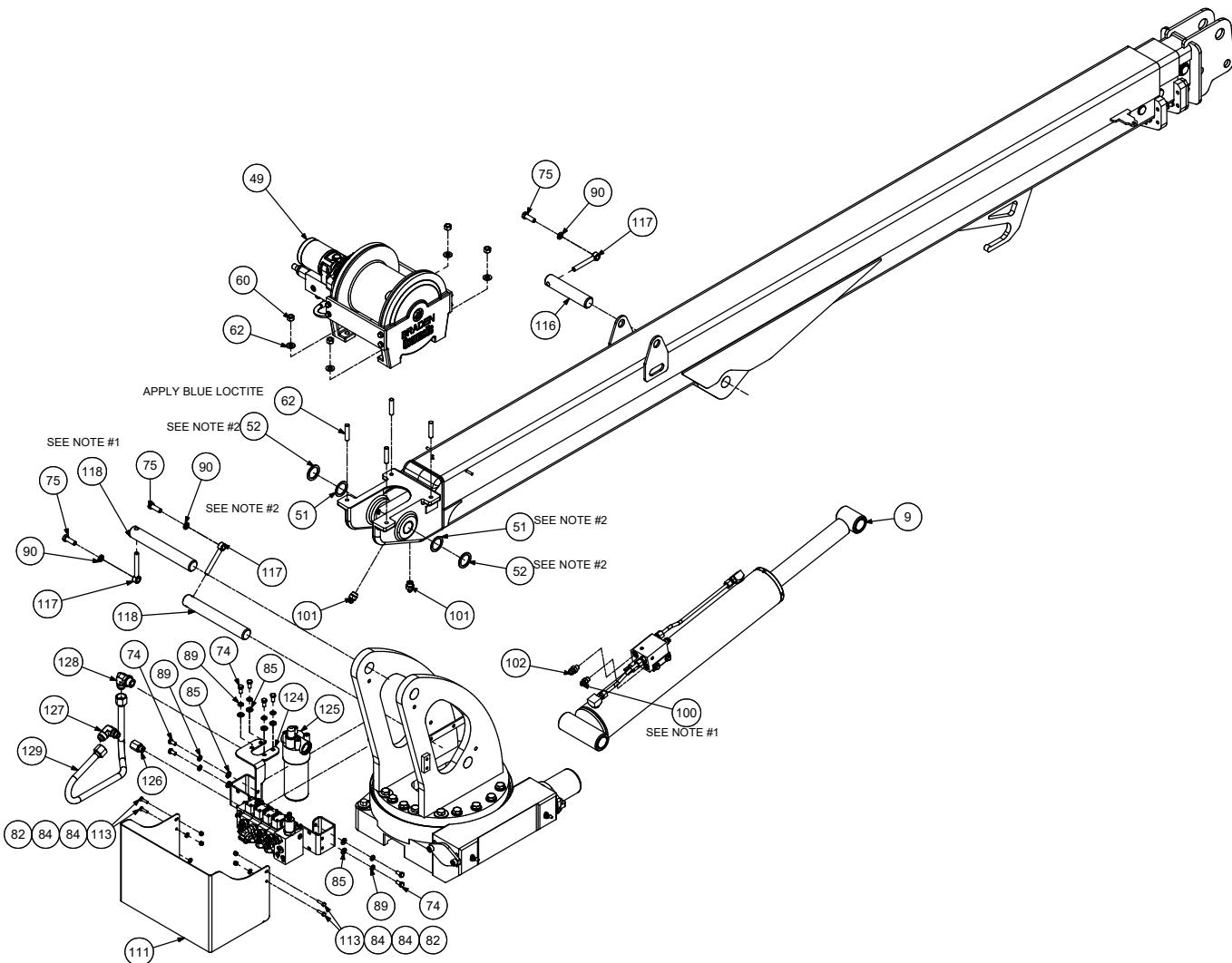
A2B ASSEMBLY

99904970-6

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
6.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
19.	51727982	KIT-A2B LIMIT SWITCH		1
49.	70570761	WINCH-PLANETARY 5500 LB LINE PULL		1
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
70.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	5	1
77.	72060640	SCR-MACH 10-24X 1.50 RDH	5	2
80.	72062093	NUT # 8-32 HEX ZINC	5	2
92.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	5	2
94.	72601938	BOLT-EYE # 8-32X 1.125	5	1
96.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	5	1
104.	72532359	ADPTR-M STR/M JIC 10 8	6	2
131.	72062207	NUT 8-32 HEX NYLOCK		1
132.	72034572	CLAMP-PLASTIC .38 CABLE		1
REV. AM CN1111				

NOTES:

1. NO FLOOD LIGHTS: USE CLAMP, PLASTIC, .25 CABLE, P / N: 72034485.
2. WITH FLOOD LIGHTS, USE CLAMP, PLASTIC, .38 CABLE, P / N: 72034572.

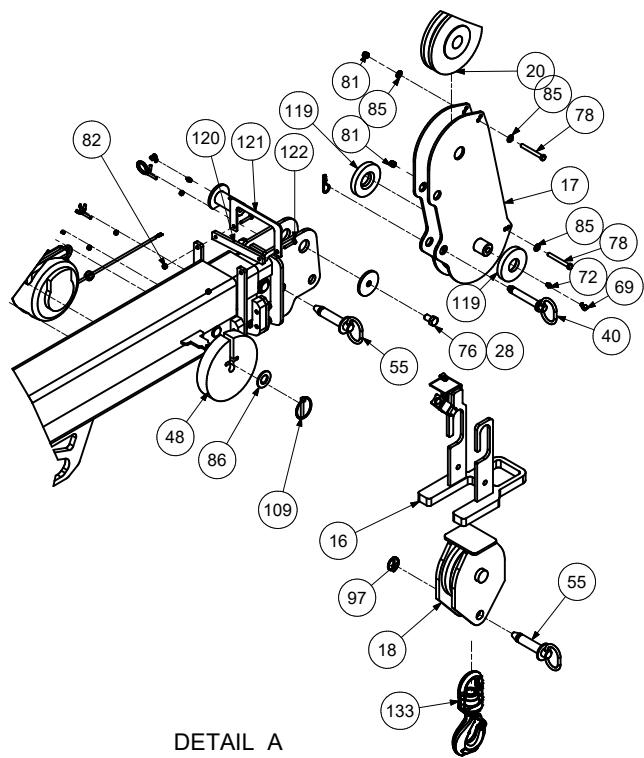
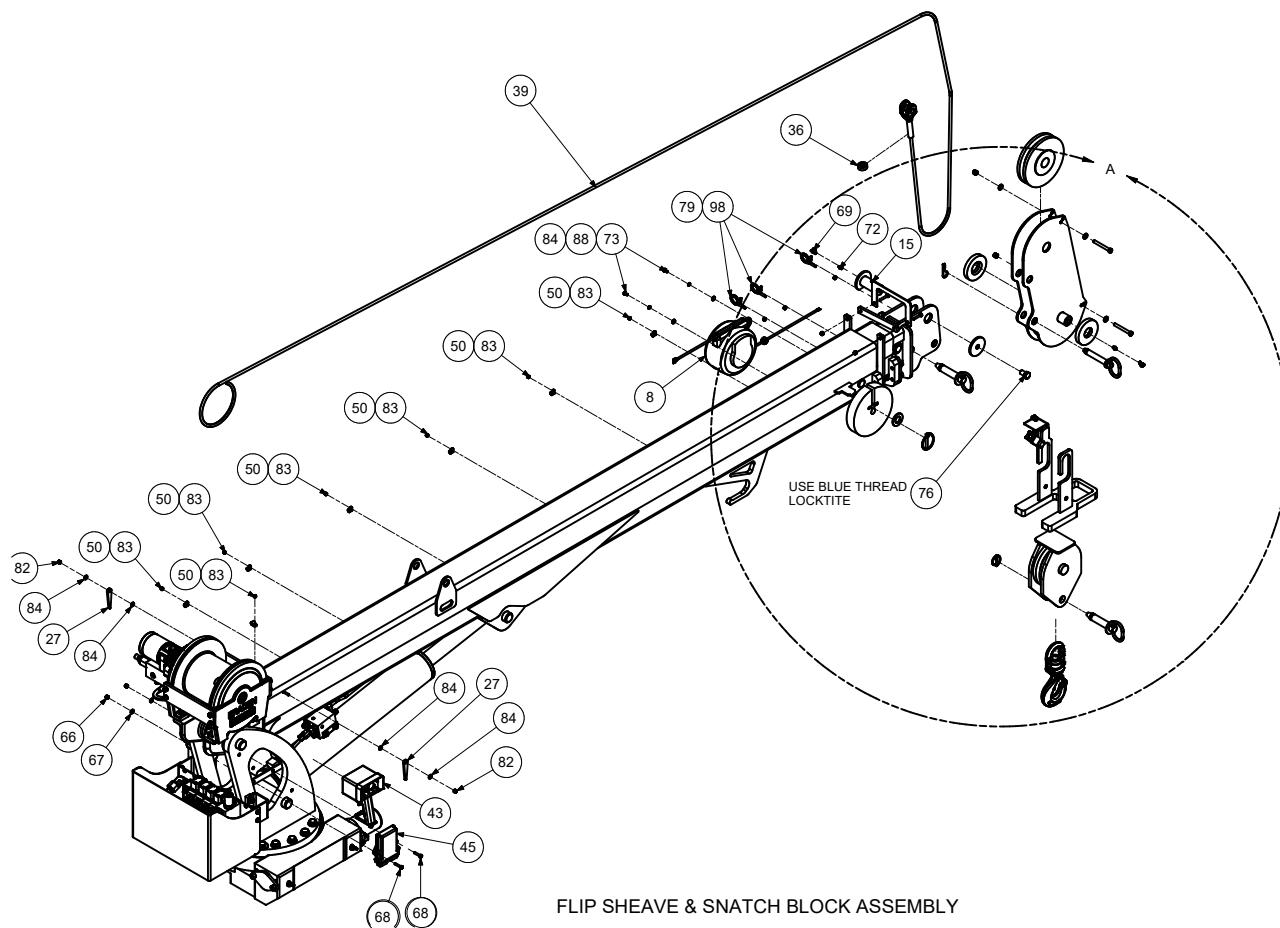
99904970-7

99904970-7

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
2.	91726834	KIT-HRDW WINCH MNT BG4-BG6		1
5.	91725204	KIT-HRDW SERIES III 7500/8600S		1
6.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
9.	51723170	CYL-4.50/2.2 25.06S 45.52CC C		1
49.	70570761	WINCH-PLANETARY 5500 LB LINE PULL		1
51.	72063036	MACHY BUSHING 1.50X14 GA NR		A/R
52.	72063037	MACHY BUSHING 1.50X10 GA NR		A/R
60.	72062108	NUT .50-20 HEX CENTER LOCKING	2	4
62.	72602138	STUD .50-20X 2.25 DBL .50-13 GR8 STL	2	4
74.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
75.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	5	15
82.	72062104	NUT .25-20 HEX NYLOCK	5	6
84.	72063001	WASHER .25 FLAT	5	18
85.	72063003	WASHER .38 FLAT	5	12
89.	72063051	WASHER .38 LOCK	5	8
90.	72063053	WASHER .50 LOCK	5	15
100.	72532355	ADPTR-M STR/M JIC 6 6	6	1
101.	72532356	ADPTR-M STR/M JIC 8 6	6	6
102.	72532357	ADPTR-M STR/M JIC 6 8	6	1
111.	60144215	COVER-VALVE BANK SIII		1
113.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
116.	60140913	PIN-TYPE NN 1.50X 7.25		1
117.	71415015	KEEPER-PIN .50		3
118.	60140914	PIN-TYPE NN 1.50X10.75		2
124.	60143075	BRKT-MAST VB 6000-8600S FP		1
125.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
126.	72534898	O-RING EXTENDER 08-08		1
127.	72533623	ELBOW-M STR/90/M JIC 8 12		1
128.	72053767	ELBOW-M STR/90/M JIC 12 12		1
129.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST		1
REV. AM CN1111				

NOTES:

1. APPLY ANTI-SEEZ TO BOOM AND CYLINDER MOUNTING PINS. DO NOT ALLOW ANTI-SEEZ TO COME IN CONTACT WITH BOOM OR CYLINDER PIN BOSS BEARINGS.
2. IF REQUIRED, USE 72063036 OR 72063037 MACHNY BUSHINGS BETWEEN MAST AND LOWER BOOM.

99904970-8

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
4.	51719413	KIT-HRDW TELE CRANE RADIO CONTROLS		1
5.	91725204	KIT-HRDW SERIES III 7500/8600S		1
8.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
15.	52723030	PIN-TYPE M 1.50X 3.38		1
16.	52725155	WLDMT- A2B BRKT		1
17.	52725153	WLDMT-FLIP SHEAVE 7500/8600		1
18.	52725065	WLDMT- SNATCH BLOCK 7500/8600		1
20.	60030134	SHEAVE- 8.00 POLYMER		1
27.	70034490	PLATE-ANGLE PLASTIC 3.50"		2
28.	60109337	RETAINER PLT-PIN 3.00 DIA		1
36.	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN		1
39.	70580182	CABLE ASM-1020in .38 6X25 FW IWRC XIPS		1
40.	73734752	PIN-LOCK W/HANDLE 0.75 X 4.00 W/HAIRPIN		1
43.	70734957	TRANSM-RAD REM TELE S3 FP NON-G FHSS 240		A/R
45.	70734960	RECEIVER-RAD REM TELE S3 FP FHSS 2400		A/R
48.	71414204	PLATE-SINGLE SHEAVE (20#) .38 WIRE ROPE		1
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
55.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		2
57.	77441481	HARNESS-TELE RADIO REMOTE SERIES III		A/R
66.	72062194	NUT-SS .25-20 NYLOC	4	2
67.	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	4	2
68.	72601846	CAP SCR .25-20X 1.25 HH SS	4	2
69.	70034382	CAP-GREASE PRO20 GC-RED	5	6
72.	72053508	ZERK-NPT .12	5	4
73.	72060000	CAP SCR .25-20X .50 HH GR5 Z	5	2
76.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	5	1
78.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	5	2
79.	72062000	NUT .25-20 HEX	5	3
81.	72062103	NUT .38-16 HEX NYLOCK	5	2
82.	72062104	NUT .25-20 HEX NYLOCK	5	6
83.	72062106	NUT 10-24 HEX NYLOCK	5	7
84.	72063001	WASHER .25 FLAT	5	18
85.	72063003	WASHER .38 FLAT	5	12
86.	72063010	WASHER 1.00 FLAT	5	1
88.	72063049	WASHER .25 LOCK	5	2
97.	72661543	PIN-QUICK 316-10QP	5	2
98.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	5	3
109.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW	5	1
110.	93725208	KIT-CABLE GUIDE 7500/8600S		1
119.	60030486	SPACER-A2B BRACKET		2
120.	60140934	GUIDE - CABLE WEAR (NARROW)	110	1
121.	60140937	BRKT - CABLE GUIDE (NARROW)	110	1
122.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	110	2
133.	70735099	HOOK-SWVL POS LOCK BBRG 5TON		1

REV. AM CN1111

99904970 COMPLETE PARTS LIST

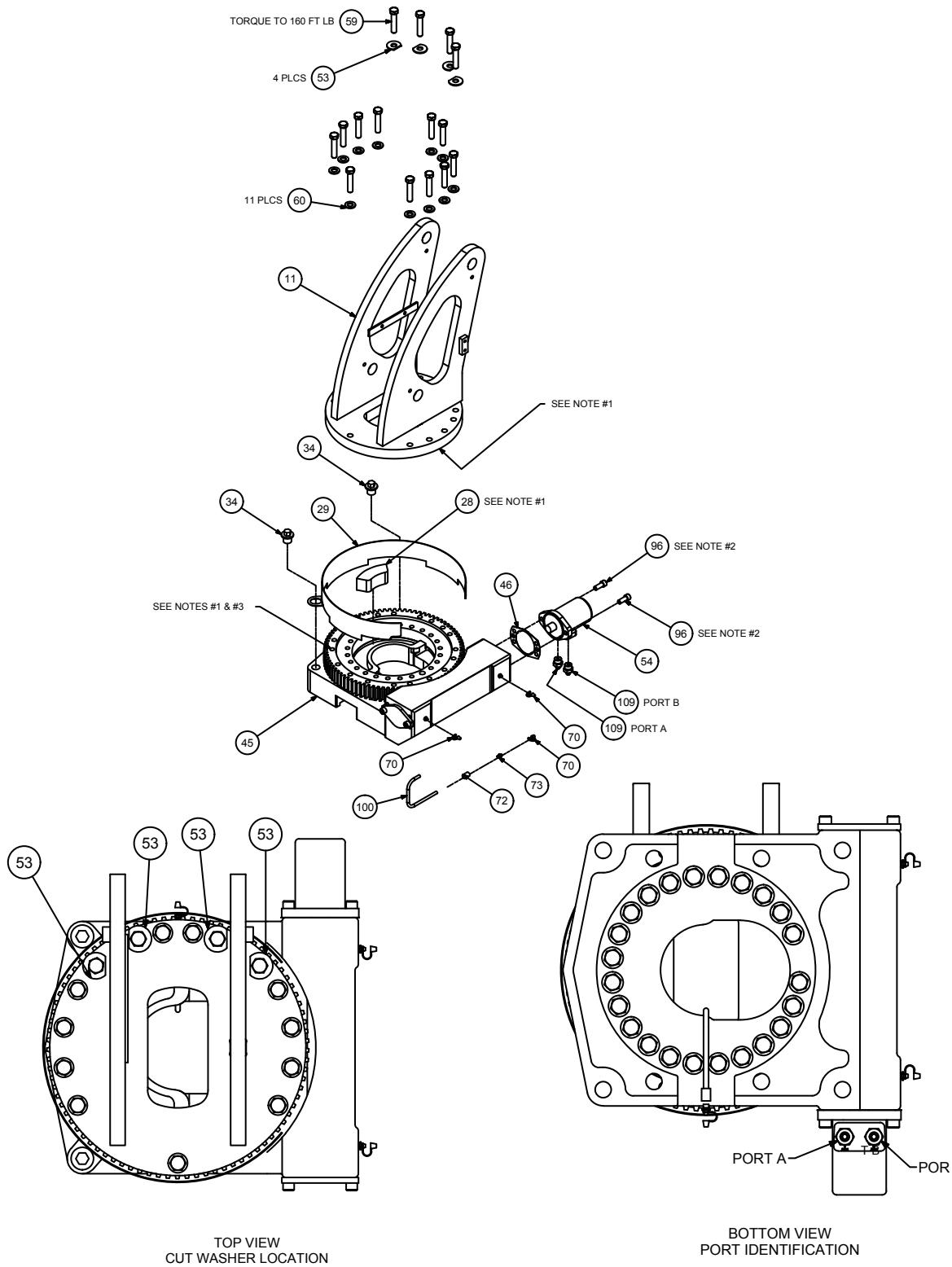
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91723654	KIT-HRDW BASE & MAST 7500/8600S		1
2.	91726834	KIT-HRDW WINCH MNT BG4-BG6		1
3.	91723543	KIT-HRDW VB MNT HAWE		1
4.	51719413	KIT-HRDW TELE CRANE RADIO CONTROLS		1
5.	91725204	KIT-HRDW SERIES III 7500/8600S		1
6.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		A/R
7.	91726823	KIT-HYD BG4 SERIES III SP 7500/8600S		A/R
8.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
9.	51723170	CYL-4.50/2.2 .25.06S 45.52CC C		1
10.	51723174	CYL-2.0/1.5 117.00S 139.11CC C		1
11.	52725122	MAST WLDMNT-SERIES III S		1
12.	52725158	WLDMNT-LOWER BOOM 7500-8600S		1
13.	52725159	WLDMNT-1st STAGE EXT BOOM 7500S		1
14.	52723169	WLDMNT-2ND STAGE EXT BOOM 7500/8600		1
15.	52723030	PIN-TYPE M 1.50X 3.38		1
16.	52725155	WLDMT- A2B BRKT		1
17.	52725153	WLDMT-FLIP SHEAVE 7500/8600		1
18.	52725065	WLDMT- SNATCH BLOCK 7500/8600		1
19.	51727982	KIT-A2B LIMIT SWITCH		1
20.	60030134	SHEAVE- 8.00 POLYMER		1
21.	60030433	WEAR PAD-RC .19 X 6.00X .40		1
22.	60030339	WEAR PAD-RND .19X 2.00X .60X .81		2
23.	60030432	WEAR PAD-RC 0.25 X 6.00X 5.00		1
24.	60030431	WEAR PAD-RC 0.25X 6.00X 1.25		4
25.	60030425	WEAR PAD-RND .44X 1.25X .50X .50		2
26.	60030427	WEAR PAD-RND .19X 2.00X 1.25X .44		4
27.	70034490	PLATE-ANGLE PLASTIC 3.50"		2
28.	60109337	RETAINER PLT-PIN 3.00 DIA		1
29.	60120138	SLIDE-ROTATION STOP 3816		1
30.	60128849	GEAR GUARD 6025 SII		1
31.	60136129	CAP-FIRST STAGE		1
32.	60140900	CAP-LOWER BOOM	110	1
33.	60136309	PIN-TYPE A 1.25X 4.27 (3.83)		1
34.	60127979	PLATE-EXT CYL C-CLIP		2
35.	70029595	THREADED PLUG 1.00-8 (3816)		2
36.	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN		1
37.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
38.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
39.	70580182	CABLE ASM-1020in .38 6X25 FW IWRC XIPS		1
40.	73734752	PIN-LOCK W/HANDLE 0.75 X 4.00 W/HAIRPIN		1
41.	70735093	TRANSM-RAD S3 SP EM 5LED FHSS 2400		A/R
42.	70734958	TRANSM-RAD REM TELE S3 FP GATED FHSS 240		A/R
43.	70734957	TRANSM-RAD REM TELE S3 FP NON-G FHSS 240		A/R
44.	70735094	RECEIVER-RAD S3 SP 5LED FHSS 2400		A/R
45.	70734960	RECEIVER-RAD REM TELE S3 FP FHSS 2400		A/R
46.	71056543	GEAR ROTATOR 5020 170-00012-1		1
47.	76039295	GASKET-GEA19 008-10056-1	46	1
48.	71414204	PLATE-SINGLE SHEAVE (20#) .38 WIRE ROPE		1
49.	70570761	WINCH-PLANETARY 5500 LB LINE PULL		1
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
51.	72063036	MACHY BUSHING 1.50X14 GA NR		A/R
52.	72063037	MACHY BUSHING 1.50X10 GA NR		A/R
53.	72063216	WASHER .62 N FLAT-CUT 3816		4
54.	73051919	MOTOR-HYD (101-2638-009)		1
55.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		2
56.	73734727	VALVE BANK-4-SECT PSL2 W OC INTL		A/R
57.	77441481	HARNESS-TELE RADIO REMOTE SERIES III		A/R
58.	72060177	CAP SCR .62-11X 3.00 HH GR8 Z	1	15
59.	72063119	WASHER .62 FLAT ASTM F436	1	11
60.	72062108	NUT .50-20 HEX CENTER LOCKING	2	4

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
123.	72062104	NUT .25-20 HEX NYLOCK	110	2
124.	60143075	BRKT-MAST VB 6000-8600S FP		1
125.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
126.	72534898	O-RING EXTENDER 08-08		1
127.	72533623	ELBOW-M STR/90/M JIC 8 12		1
128.	72053767	ELBOW-M STR/90/M JIC 12 12		1
129.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST		1
130.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	6	1
131.	72062207	NUT 8-32 HEX NYLOCK		1
132.	72034572	CLAMP-PLASTIC .38 CABLE		1
133.	70735099	HOOK-SWVL POS LOCK BBRG 5TON		1
REV. AM CN1111				

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8600 22' - Crane Assembly Test Stand Mount (99904970)

THROUGH 02-2020

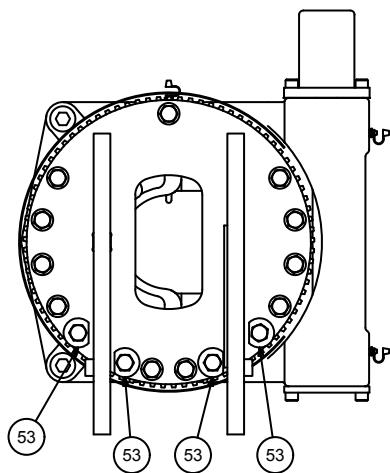
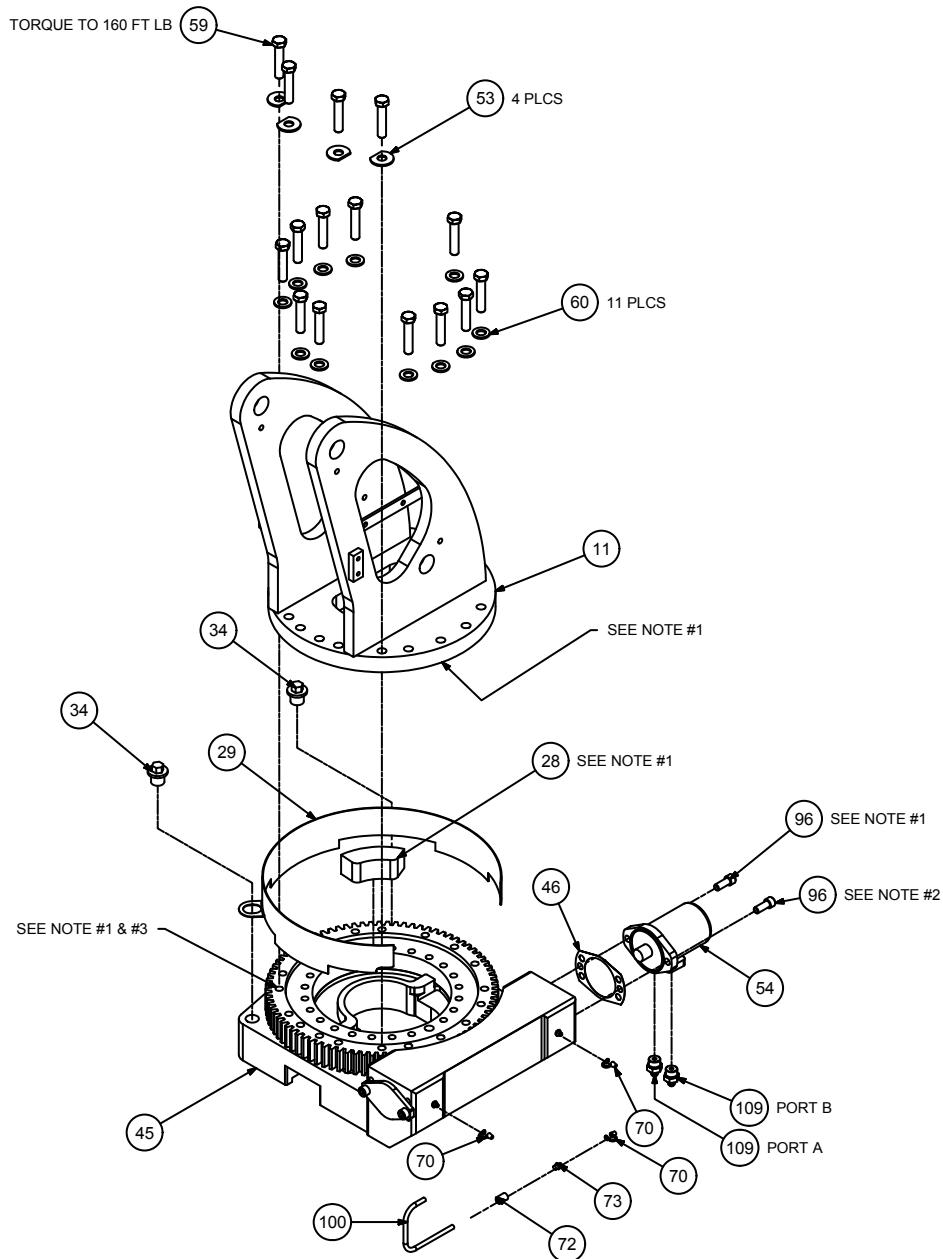
TOP VIEW
CUT WASHER LOCATIONBOTTOM VIEW
PORT IDENTIFICATION

99904970 PARTS LIST

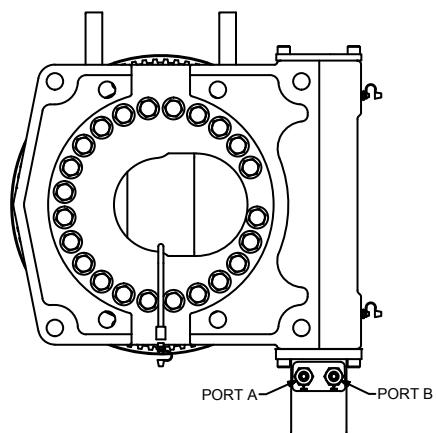
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
11.	52725122	MAST WLDMNT-SERIES III S		1
28.	60120138	SLIDE-ROTATION STOP 3816		1
29.	60128849	GEAR GUARD 6025 SII		1
34.	70029595	THREADED PLUG 1.00-8 (3816)		2
45.	71056543	GEAR ROTATOR 5020 170-00012-1		1
46.	76039295	GASKET-GEA19 008-10056-1	45	1
48.	71414204	PLATE-SINGLE SHEAVE (20#) .38 WIRE ROPE		1
53.	72063216	WASHER .62 N FLAT-CUT 3816		4
54.	73051919	MOTOR-HYD (101-2638-009)		1
59.	72060177	CAP SCR .62-11X 3.00 HH GR8 Z	1	15
60.	72063119	WASHER .62 FLAT ASTM F436	1	11
70.	70034382	CAP-GREASE PRO20 GC-RED	5	6
72.	72053301	COUPLING-GLV .12 SCH 40	5	1
73.	72053508	ZERK-NPT .12	5	4
96.	72601949	CAP SCR .50-13X 1.25 SH ZC	5	2
100.	51395121	HOSE-AA .13 X 13.50 OAL (2-2)	5	1
109.	72533613	ADPTR-M STR/M JIC 10 6	6	2
REV. AK				

NOTES:

1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST , AND TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.
4. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON TEST STAND.

8600 22' - Crane Assembly Truck Mount (99904970)

TOP VIEW
CUT WASHER LOCATION



BOTTOM VIEW
PORT IDENTIFICATION

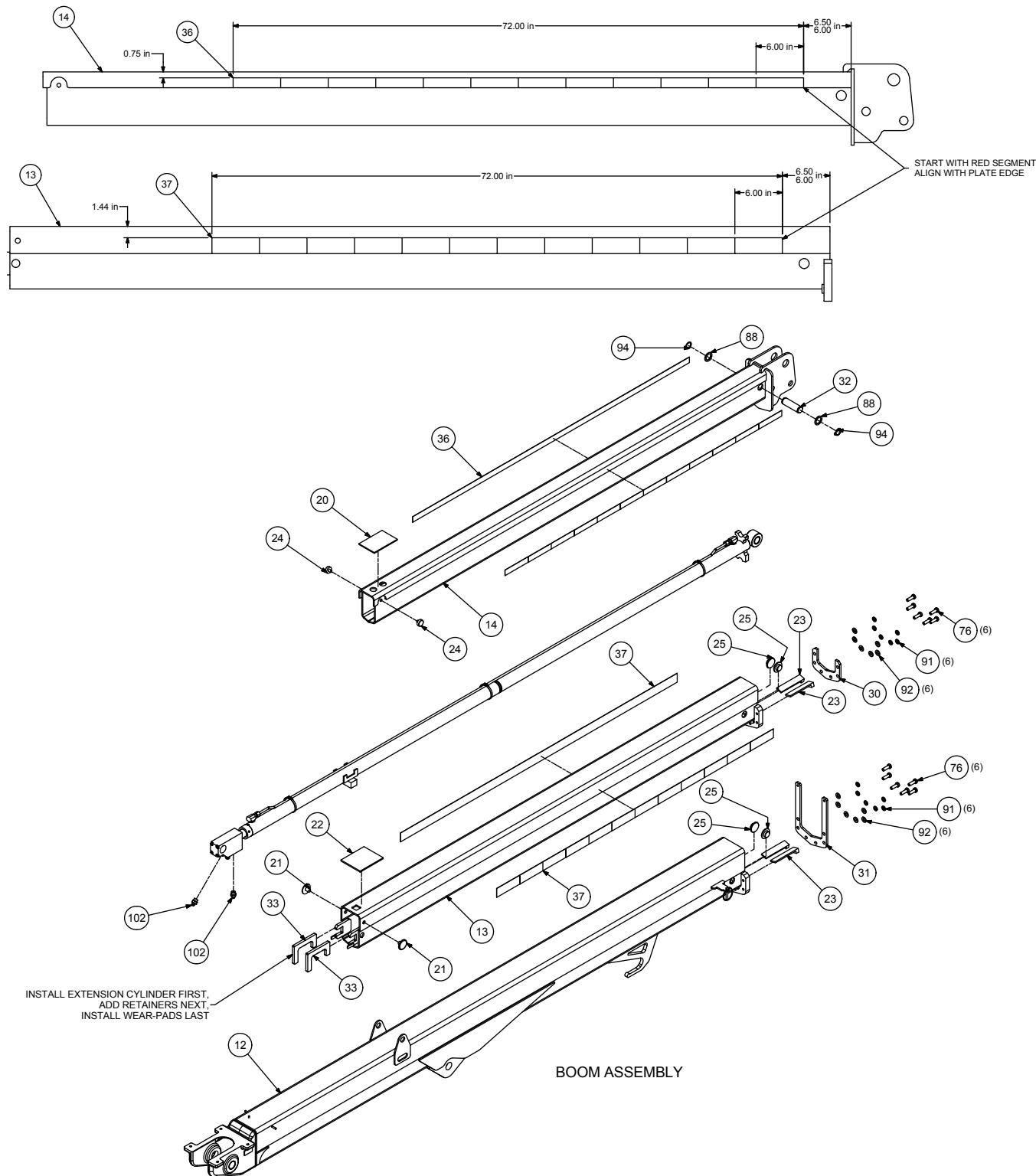
99904970 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
11.	52725122	MAST WLDMNT-SERIES III S		1
28.	60120138	SLIDE-ROTATION STOP 3816		1
29.	60128849	GEAR GUARD 6025 SII		1
34.	70029595	THREADED PLUG 1.00-8 (3816)		2
45.	71056543	GEAR ROTATOR 5020 170-00012-1		1
46.	76039295	GASKET-GEA19 008-10056-1	45	1
53.	72063216	WASHER .62 N FLAT-CUT 3816		4
54.	73051919	MOTOR-HYD (101-2638-009)		1
59.	72060177	CAP SCR .62-11X 3.00 HH GR8 Z	1	15
60.	72063119	WASHER .62 FLAT ASTM F436	1	11
70.	70034382	CAP-GREASE PRO20 GC-RED	5	6
72.	72053301	COUPLING-GLV .12 SCH 40	5	1
73.	72053508	ZERK-NPT .12	5	4
96.	72601949	CAP SCR .50-13X 1.25 SH ZC	5	2
100.	51395121	HOSE-AA .13 X 13.50 (2-2)	5	1
109.	72533613	ADPTR-M STR/M JIC 10 6	6	2
REV. AK				

NOTES:

1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST , AND TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON GEAR TEETH.
4. BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON TRUCK.

8600 22' - Boom Assembly (99904970)

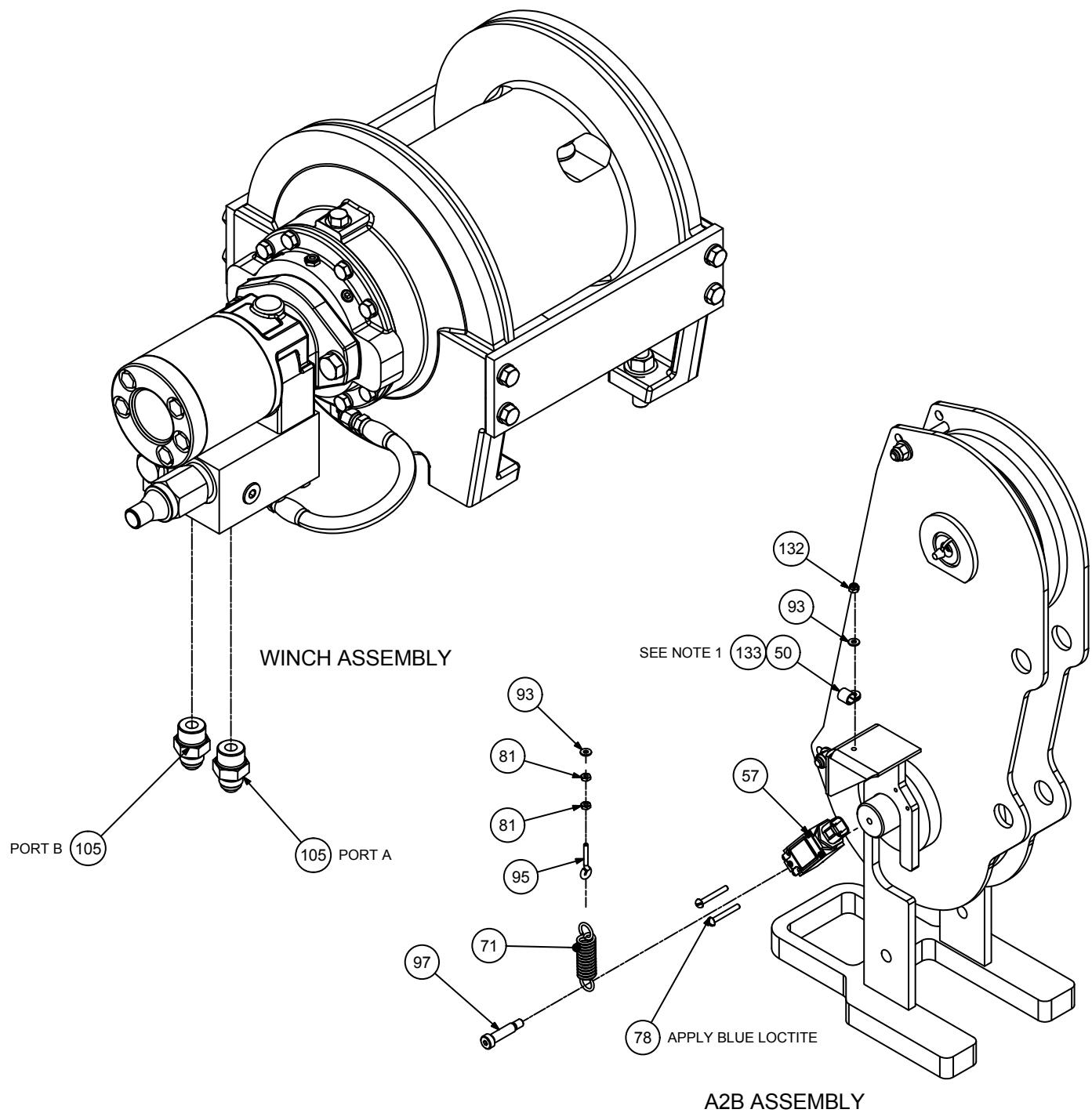


99904970 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
12.	52725158	WLDMNT-LOWER BOOM		1
13.	52725159	WLDMNT-1st STAGE EXT BOOM		1
14.	52723169	WLDMNT-2ND STAGE EXT BOOM		1
20.	60030433	WEAR PAD-RC .19 X 6.00X 4.00		1
21.	60030339	WEAR PAD-RND 0.19X 2.00X .60X .81		2
22.	60030432	WEAR PAD-RC 0.25 X 6.00X 5.00		1
23.	60030431	WEAR PAD-RC 0.25X 6.00X 1.25		4
24.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
25.	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
30.	60136129	CAP-FIRST STAGE		1
31.	60140900	CAP-LOWER BOOM	111	1
32.	60136309	PIN-TYPE A 1.25X 4.27 (3.83)		1
33.	60127979	PLATE-EXT CYL C-CLIP		2
36.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
37.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
38.	70580182	CABLE ASM-1020in .38 6X25 FW IWRC XIPS		1
76.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	5	15
88.	72063035	MACHY BUSHING 1.25X10 GA NR	5	2
91.	72063053	WASHER .50 LOCK	5	15
92.	72063132	WASHER .50 FLAT ASTM F436	5	17
94.	72066129	RETAINING RING-EXT 1.25 HD	5	2
102.	72532356	ADPTR-M STR/M JIC 8 6	6	6
REV. AK				

NOTES:

1. CYLINDER CAP & CAP SCREWS ARE INCLUDED WITH THE EXTENSION CYLINDER.
2. USE BLUE THREAD LOCKER.

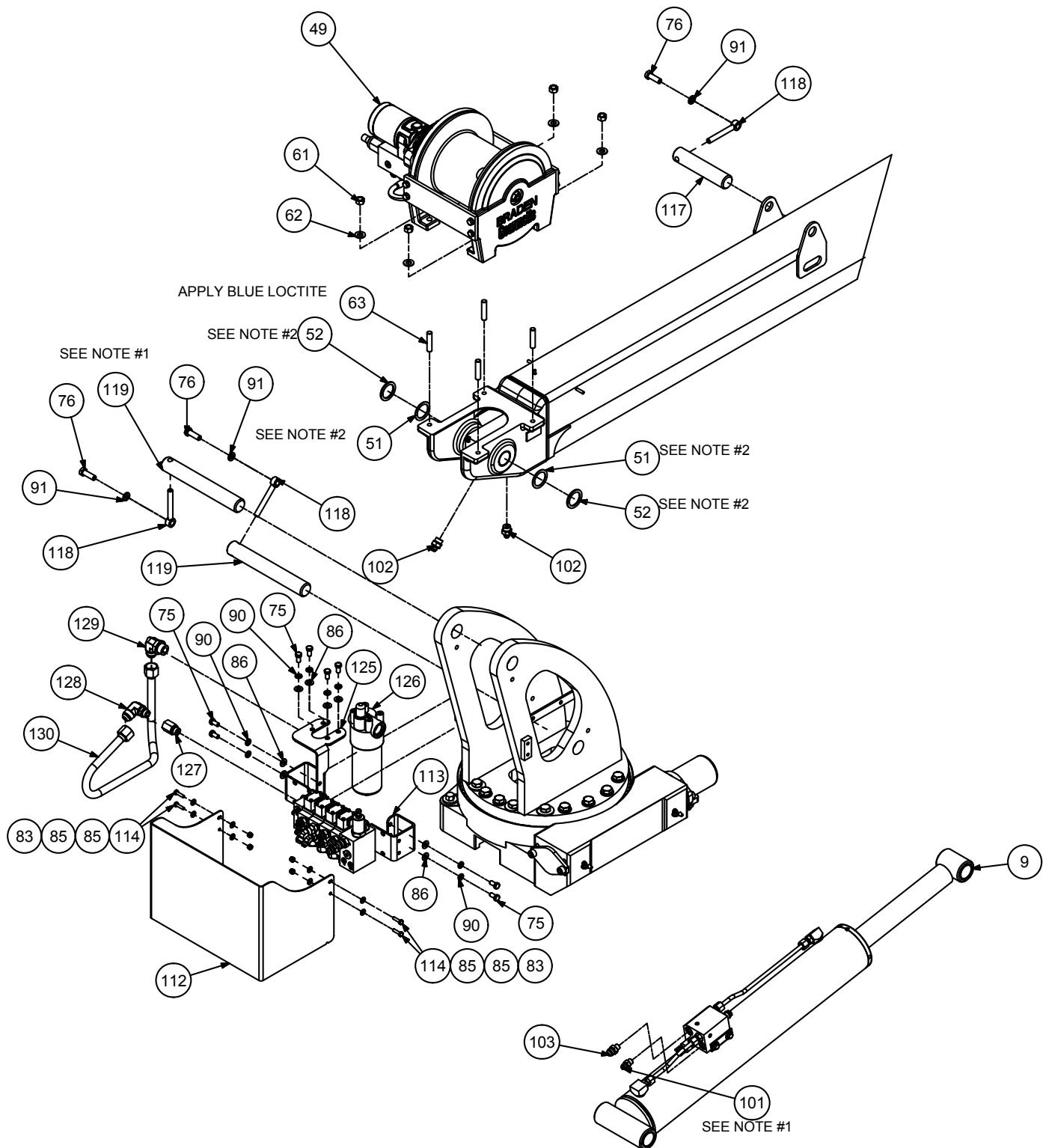
8600 22' - Winch & Anti-Two Block Assembly (99904970)

99904970 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
57.	77041863	SWITCH-LIMIT DT04-4P CONN		1
71.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	5	1
78.	72060639	SCR-MACH 10-24X 1.25 RDH	5	2
81.	72062093	NUT # 8-32 HEX ZINC	5	2
93.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	5	2
95.	72601938	BOLT-EYE # 8-32X 1.125	5	1
97.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	5	1
105.	72532359	ADPTR-M STR/M JIC 10 8	6	2
132.	72062207	NUT 8-32 HEX NYLOCK		1
133.	72034572	CLAMP-PLASTIC .38 CABLE		1
REV. AK				

NOTES:

1. NO FLOOD LIGHTS USE PART NUMBER, 72034485, CLAMP-PLASTIC .25 CABLE.
2. WITH FLOOD LIGHTS USE PART NUMBER, 72034572, CLAMP-PLASTIC .38 CABLE.

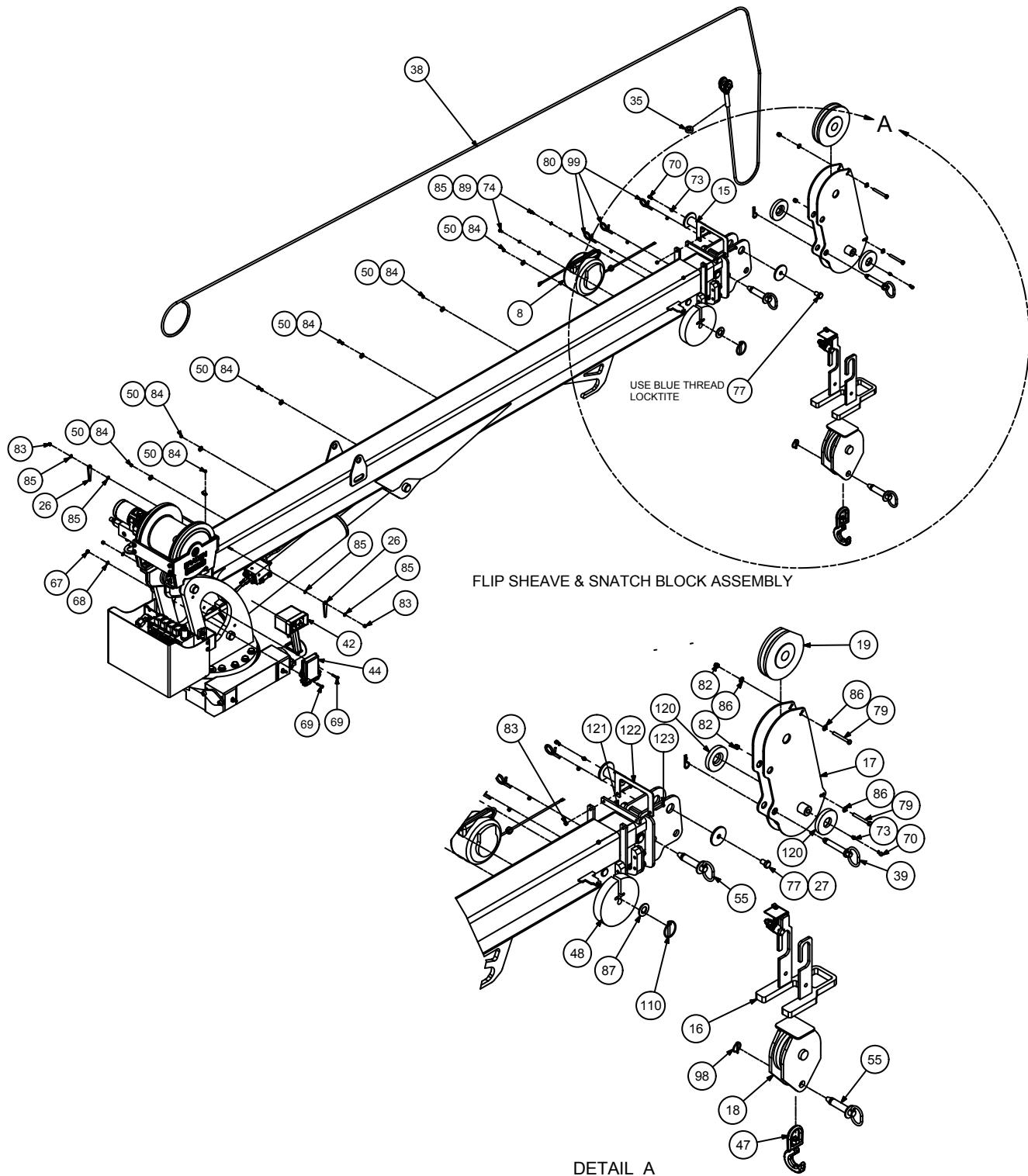
8600 22' - Crane & Winch Assembly (99904970)

99904970 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
9.	51723170	CYL-4.50/2.2 25.06S 45.52CC C /PD8 (8500 ONLY)		1
	51723577	CYL-4.25/2.2 25.06S 45.52CC C (7500 ONLY)		1
	51724528	CYL-4.0/2.2 25.06S 45.52CC C /PD (6000 ONLY)		1
49.	70570761	WINCH-PLANETARY 5500 LB LINE PULL		1
51.	72063036	MACHY BUSHING 1.50X14 GA NR	A/R	
52.	72063037	MACHY BUSHING 1.50X10 GA NR	A/R	
61.	72062108	NUT .50-20 HEX CENTER LOCKING	2	4
62.	72063132	WASHER .50 FLAT ASTM F436	2	4
63.	72602138	STUD .50-20X 2.25 DBL .50-13 GR8 STL	2	4
75.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
76.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	5	15
83.	72062104	NUT .25-20 HEX NYLOCK	5	6
85.	72063001	WASHER .25 FLAT	5	18
86.	72063186	WASHER .38 FLAT	5	12
90.	72063051	WASHER .38 LOCK	5	8
91.	72063053	WASHER .50 LOCK	5	15
101.	72532355	ADPTR-M STR/M JIC 6 6	6	1
102.	72532356	ADPTR-M STR/M JIC 8 6	6	6
103.	72532357	ADPTR-M STR/M JIC 6 8	6	1
112.	60144215	COVER-VALVE BANK SIII		1
113.	60140839	BRKT-MAST VB 6000-8600S		2
114.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
117.	60140913	PIN-TYPE NN 1.50X 7.25		1
118.	71415015	KEEPER-PIN .50		3
119.	60140914	PIN-TYPE NN 1.50X10.75		2
125.	60143075	BRKT-MAST VB 6000-8600S FP		1
126.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12 (7500/8600 ONLY)		1
127.	72534898	O-RING EXTENDER 08-08		1
128.	72533623	ELBOW-M STR/90/M JIC 8 12		1
129.	72053767	ELBOW-M STR/90/M JIC 12 12		1
130.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST		1
REV. AK				

NOTES:

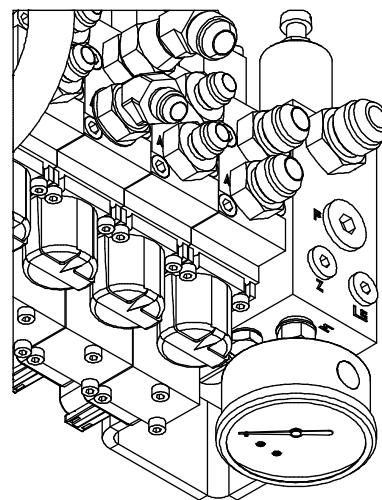
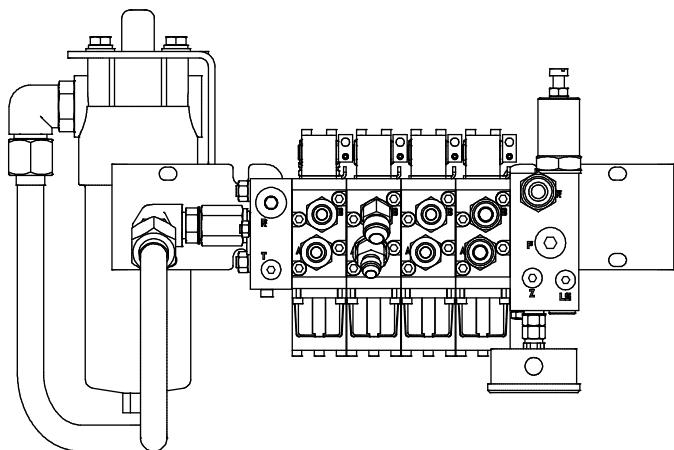
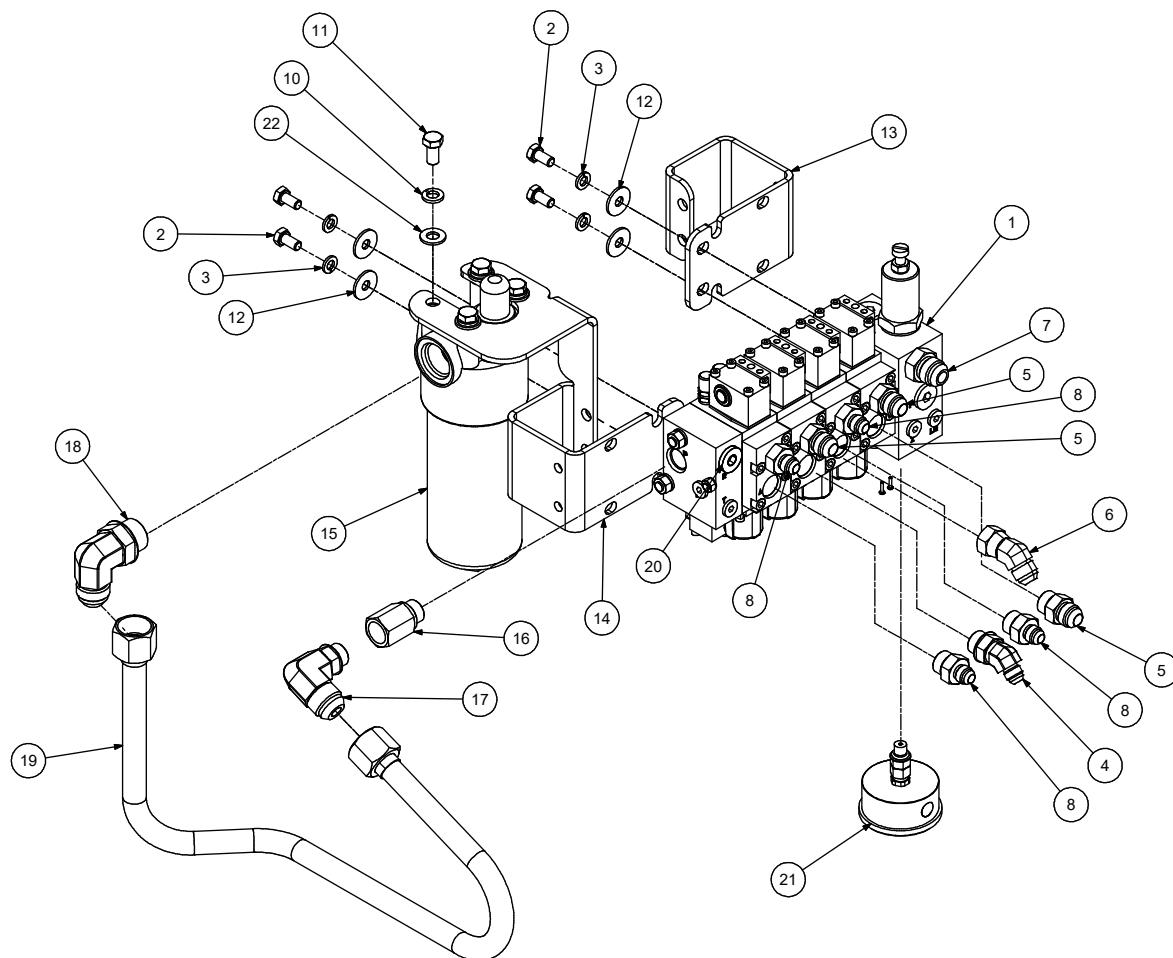
1. APPLY ANTI-SEEZ TO BOOM AND CYLINDER MOUNTING PINS.
2. DO NOT ALLOW ANTI-SEEZ TO COME IN CONTACT WITH BOOM OR CYLINDER PIN BOSS BEARINGS.
3. IF REQUIRED, USE 72063036 OR 72063037, MACHY BUSHINGS, BETWEEN MAST AND LOWER BOOM.

8600 22' - Flip Sheave & Snatch Block Assembly (99904970)

99904970 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
8.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
15.	52723030	PIN-TYPE M 1.50X 3.38		1
16.	52725155	WLDMT- A2B BRKT		1
17.	52725153	WLDMT-FLIP SHEAVE		1
18.	52725065	WLDMT- SNATCH BLOCK		1
19.	60030134	SHEAVE- 8.00 POLYMER		1
26.	70034490	PLATE-ANGLE PLASTIC 3.50"		2
27.	60109337	RETAINER PLT-PIN 3.00 DIA		1
35.	70149793	COLLAR-SHAFT 2 PIECE 11/16 IN		1
38.	70580182	CABLE ASM-1020in .38 6X25 FW IWRC XIPS		1
39.	73734752	PIN-LOCK W/HANDLE 0.75 X 4.00 W/HAIRPIN		1
42.	70735093	TRANSM-RAD S3 SP EM 5LED FHSS 2400	A/R	
44.	70735094	RECEIVER-RAD S3 SP 5LED FHSS 2400	A/R	
47.	70735099	HOOK-SWVL POS LOCK BBRG 5TON		1
48.	71414204	PLATE-SINGLE SHEAVE (20#) .38 WIRE ROPE		1
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
55.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		2
67.	72062194	NUT-SS .25-20 NYLOC	4	2
68.	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	4	2
69.	72601846	CAP SCR .25-20X 1.25 HH SS	4	2
70.	70034382	CAP-GREASE PRO20 GC-RED	5	6
73.	72053508	ZERK-NPT .12	5	4
74.	72060000	CAP SCR .25-20X .50 HH GR5 Z	5	2
77.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	5	1
79.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	5	2
80.	72062000	NUT .25-20 HEX	5	3
82.	72062103	NUT .38-16 HEX NYLOCK	5	2
83.	72062104	NUT .25-20 HEX NYLOCK	5	6
84.	72062106	NUT 10-24 HEX NYLOCK	5	7
85.	72063001	WASHER .25 FLAT	5	18
86.	72063186	WASHER .38 FLAT	5	12
87.	72063010	WASHER 1.00 FLAT	5	1
89.	72063049	WASHER .25 LOCK	5	2
99.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	5	3
110.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW	5	1
120.	60030486	SPACER-A2B BRACKET (7500/8600 ONLY)		2
121.	60140934	GUIDE - CABLE WEAR (NARROW)	111	1
122.	60140937	BRKT - CABLE GUIDE (NARROW)	111	1
123.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	111	2

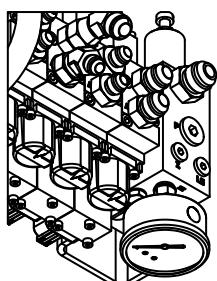
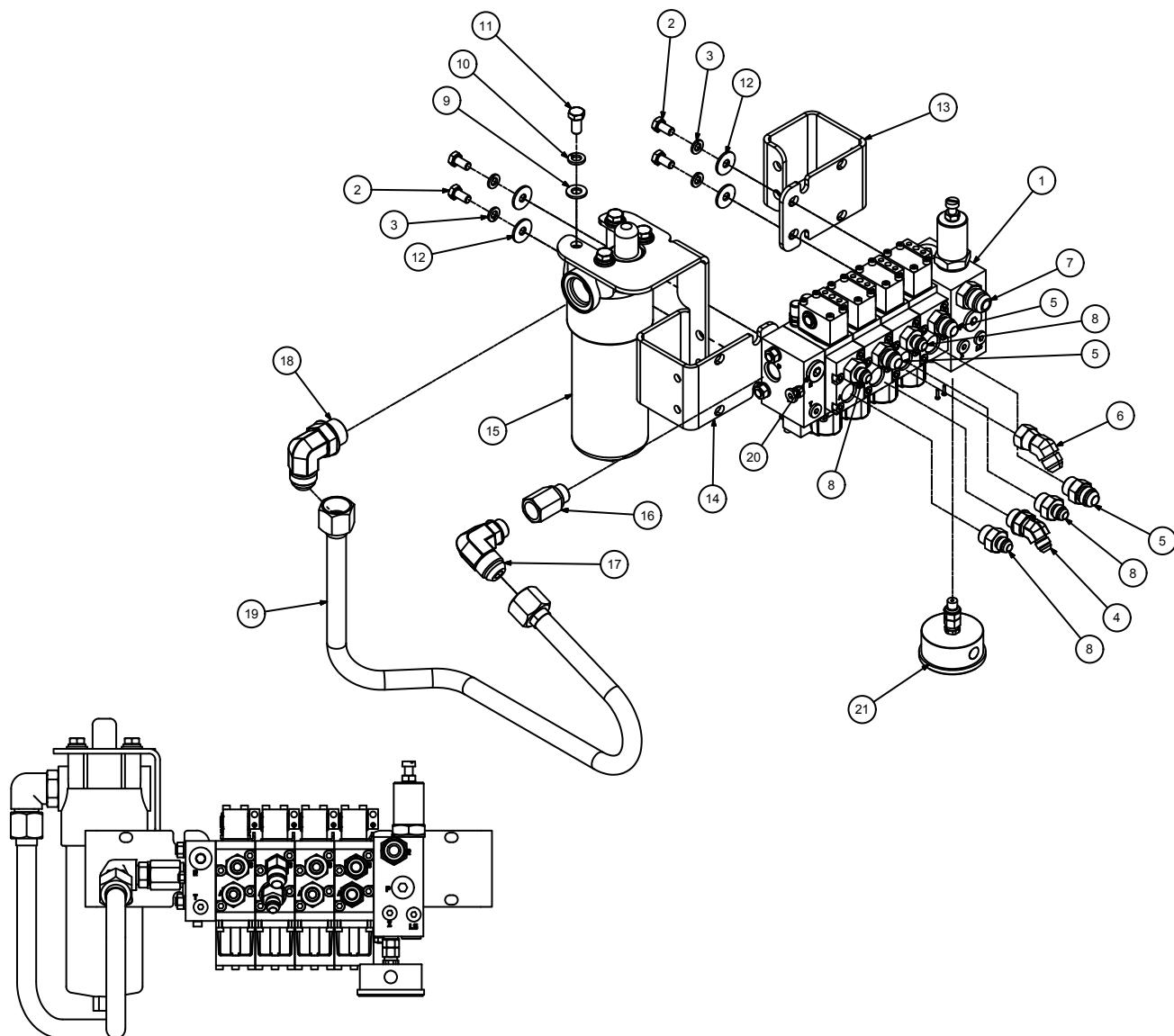
REV. AL

8600 22' - Valve Bank Assm S3 Crane FP (99906280)

NOTE ORIENTATION OF GAUGE

99906280 PARTS LIST

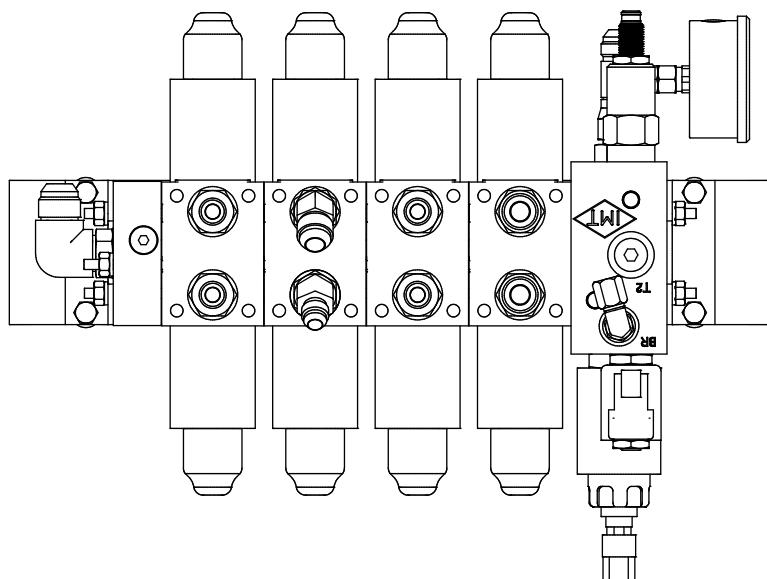
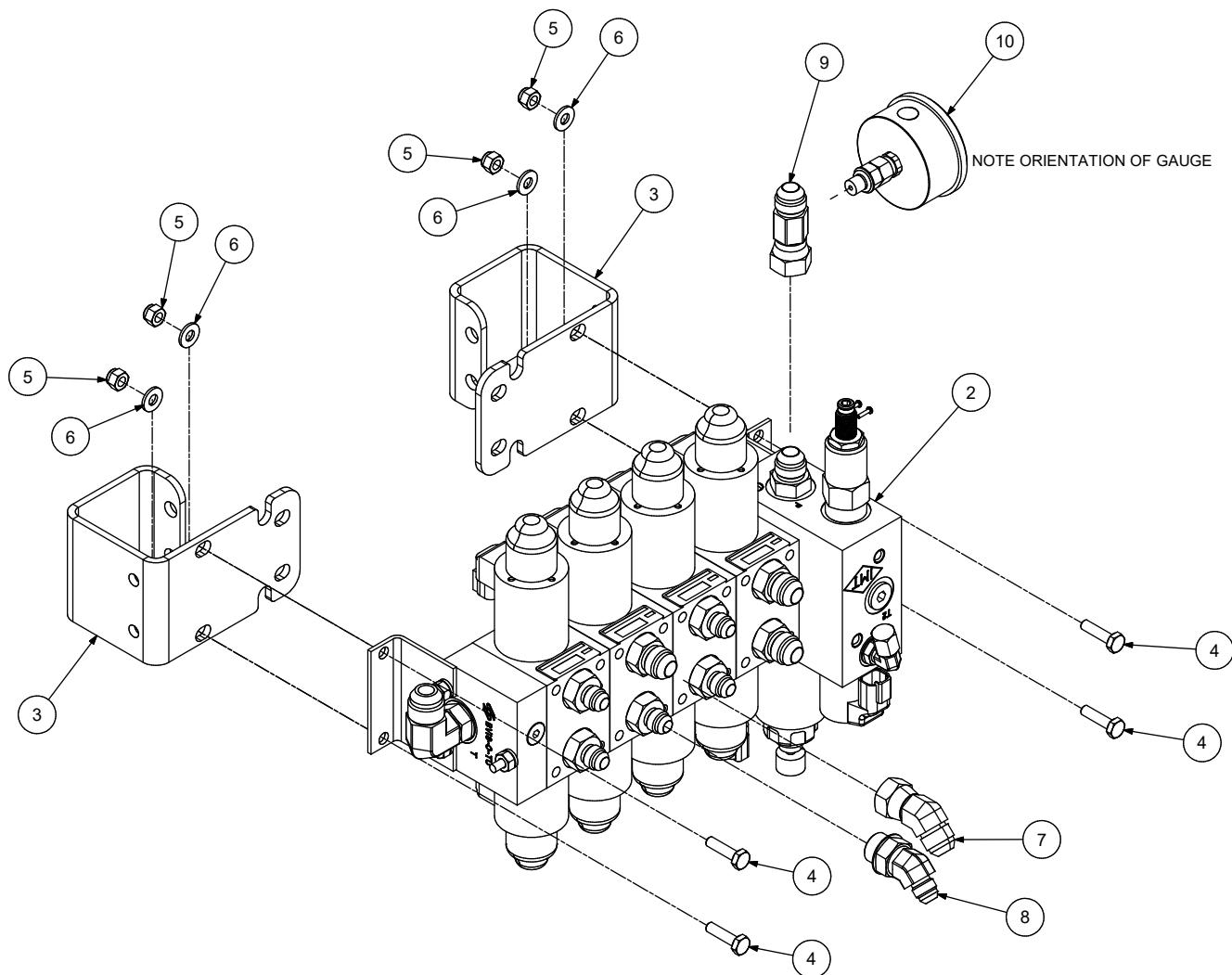
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	73734727	VALVE BANK-4-SECT PSL2 W OC INLT	1
2.	72602052	CAP SCR M 8-1.25X 16 HHZ	4
3.	72601797	WASHER-LOCK 8MM	4
4.	72533583	ELBOW-M STR/45/M JIC 8 6	1
5.	72532358	ADPTR-M STR/M JIC 8 8	3
6.	72532670	ELBOW-M JIC/45/F JIC 8 8	1
7.	72532361	ADPTR-M STR/M JIC 8 10	1
8.	72532356	ADPTR-M STR/M JIC 8 6	4
10.	72063051	WASHER .38 LOCK	4
11.	72060044	CAP SCR .38-16X .75 HH GR5 Z	4
12.	72602065	WASHER-FLAT M 8	4
13.	60140839	BRKT-MAST VB 6000-8600S	1
14.	60143075	BRKT-MAST VB 6000-8600S FP	1
15.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12	1
16.	72534898	O-RING EXTENDER 08-08	1
17.	72533623	ELBOW-M STR/90/M JIC 8 12	1
18.	72053767	ELBOW-M STR/90/M JIC 12 12	1
19.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST	1
20.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	1
21.	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1
22.	72063186	WASHER-FLAT .38 N H ASTM F436	4
REV. A			

8600 22' - Fully Proportional Valve Bank Assembly (99906280)

NOTE ORIENTATION OF GAUGE

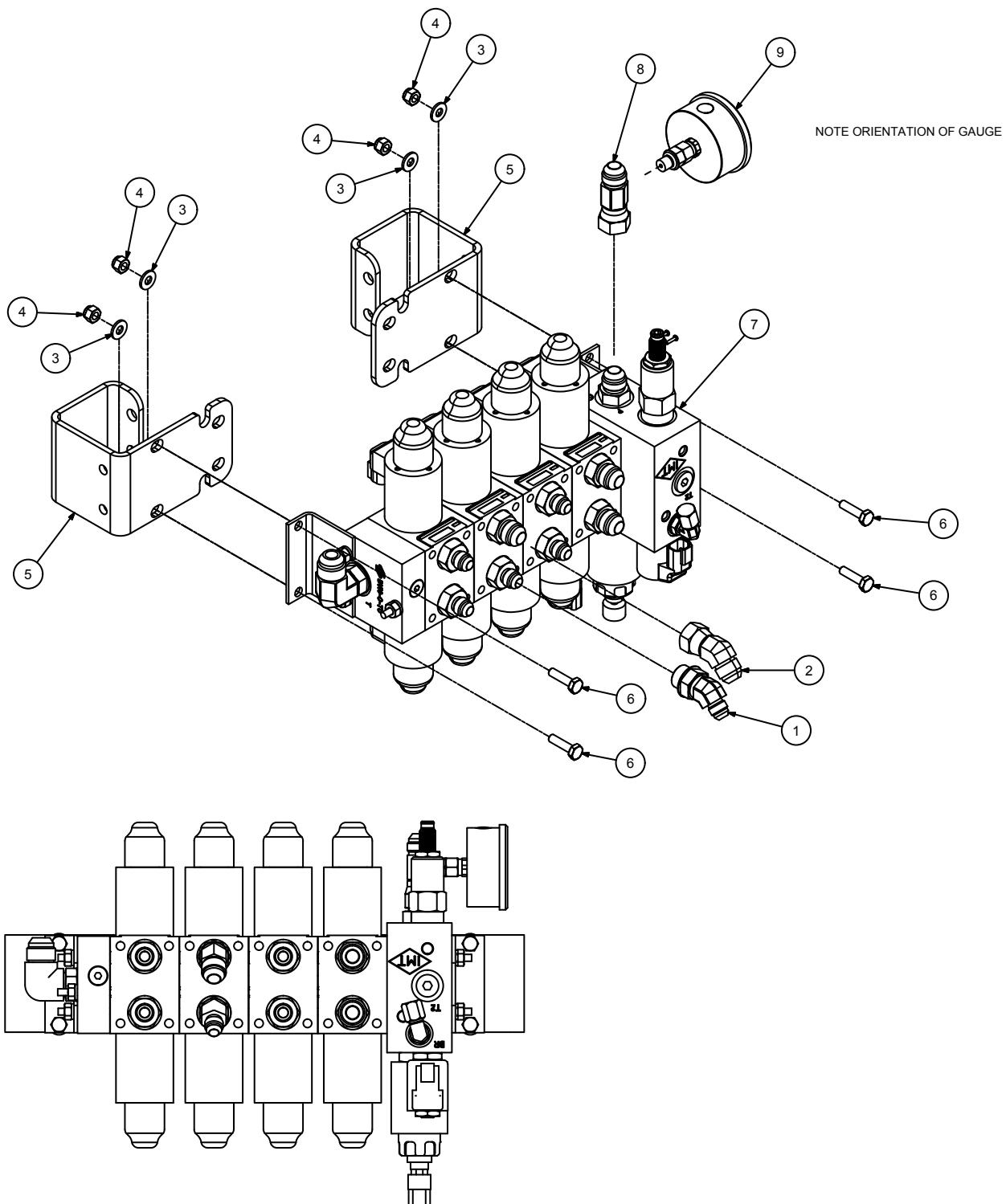
99906280 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY
1.	73734727	VALVE BANK-4-SECT PSL2 W OC INLT	1
2.	72602052	CAP SCR M 8-1.25X 16 HHZ	4
3.	72601797	WASHER-LOCK 8MM	4
4.	72533583	ELBOW-M STR/45/M JIC 8 6	1
5.	72532358	ADPTR-M STR/M JIC 8 8	3
6.	72532670	ELBOW-M JIC/45/F JIC 8 8	1
7.	72532361	ADPTR-M STR/M JIC 8 10	1
8.	72532356	ADPTR-M STR/M JIC 8 6	4
9.	72063186	WASHER .38 FLAT	4
10.	72063051	WASHER .38 LOCK	4
11.	72060044	CAP SCR .38-16X .75 HH GR5 Z	4
12.	72602065	WASHER-FLAT M 8	4
13.	60140839	BRKT-MAST VB 6000-8600S	1
14.	60143075	BRKT-MAST VB 6000-8600S FP	1
15.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12	1
16.	72534898	O-RING EXTENDER 08-08	1
17.	72533623	ELBOW-M STR/90/M JIC 8 12	1
18.	72053767	ELBOW-M STR/90/M JIC 12 12	1
19.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST	1
20.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	1
21.	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1
Rev. Initial Release			

8600-22' Valve Bank Assm S3 Crane SP (99906279)

99906279 PARTS LIST

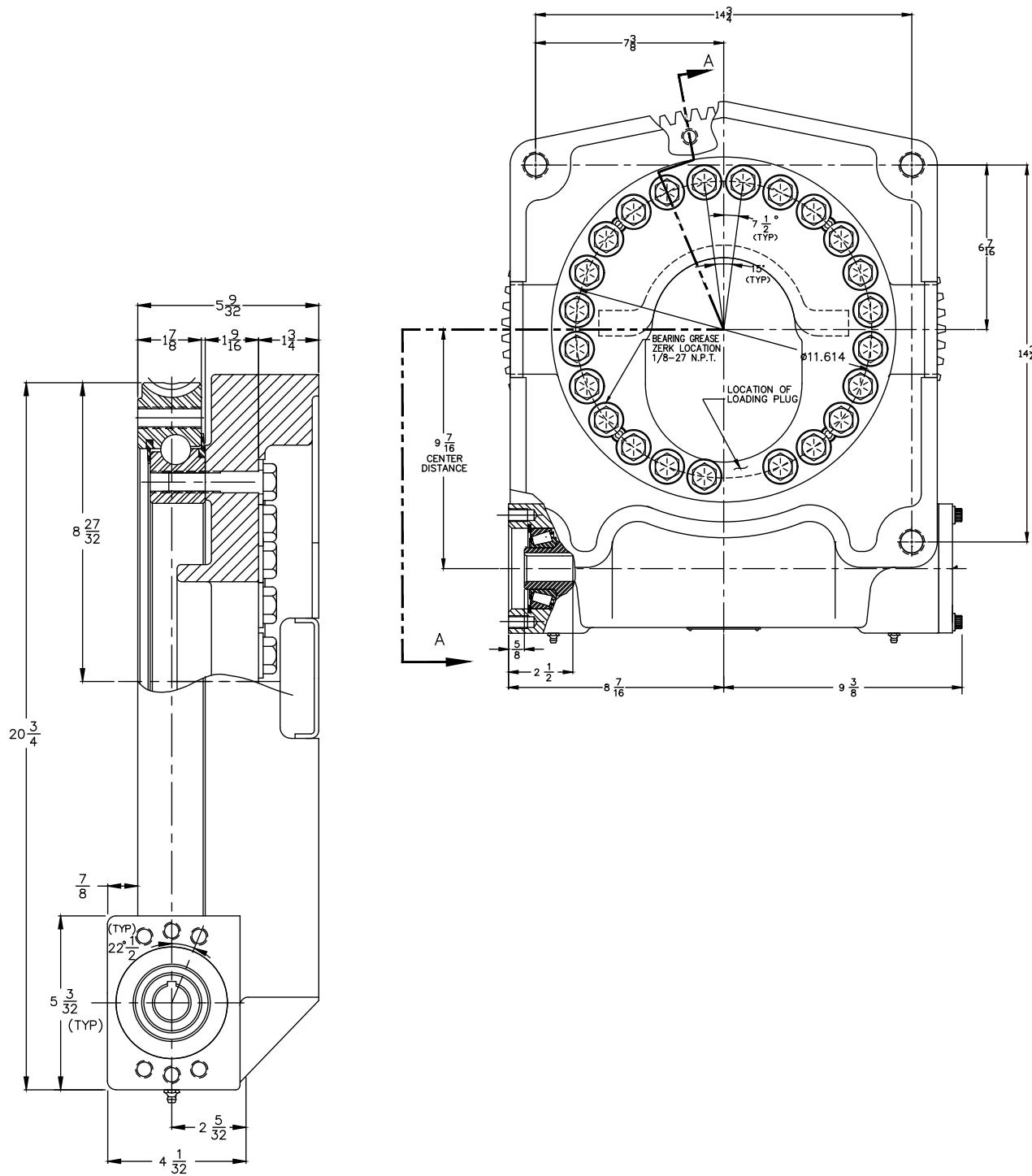
ITEM NO.	PART NO.	DESCRIPTION	QTY.	MODEL	KIT NO.
1.	51728093	KIT-HRDW SERIES 3 SP VALVE BANK	1		
2.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69	1		
3.	60140839	BRKT-MAST VB 6000-8600S	2	7500/8600S	
3.	60140840	BRKT-MAST VB 7500-10000L	2	7500/10000	
3.	60140857	BRKT-MAST VB 12000-14000	1	14000	
3.	60251822	BRKT-MAST VB 12000	1	12000	
4.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	4		1
5.	72062104	NUT .25-20 HEX NYLOCK	4		1
6.	72063001	WASHER .25 FLAT	4		1
7.	72532670	ELBOW-M JIC/45/F JIC 8 8	1		
8.	72533583	ELBOW-M STR/45/M JIC 8 6	1		
9.	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE	1		
10.	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB	1		
REV. B					

8600 22' - Single Proportional Valve Bank Assembly (99906279)

99906279 PARTS LIST

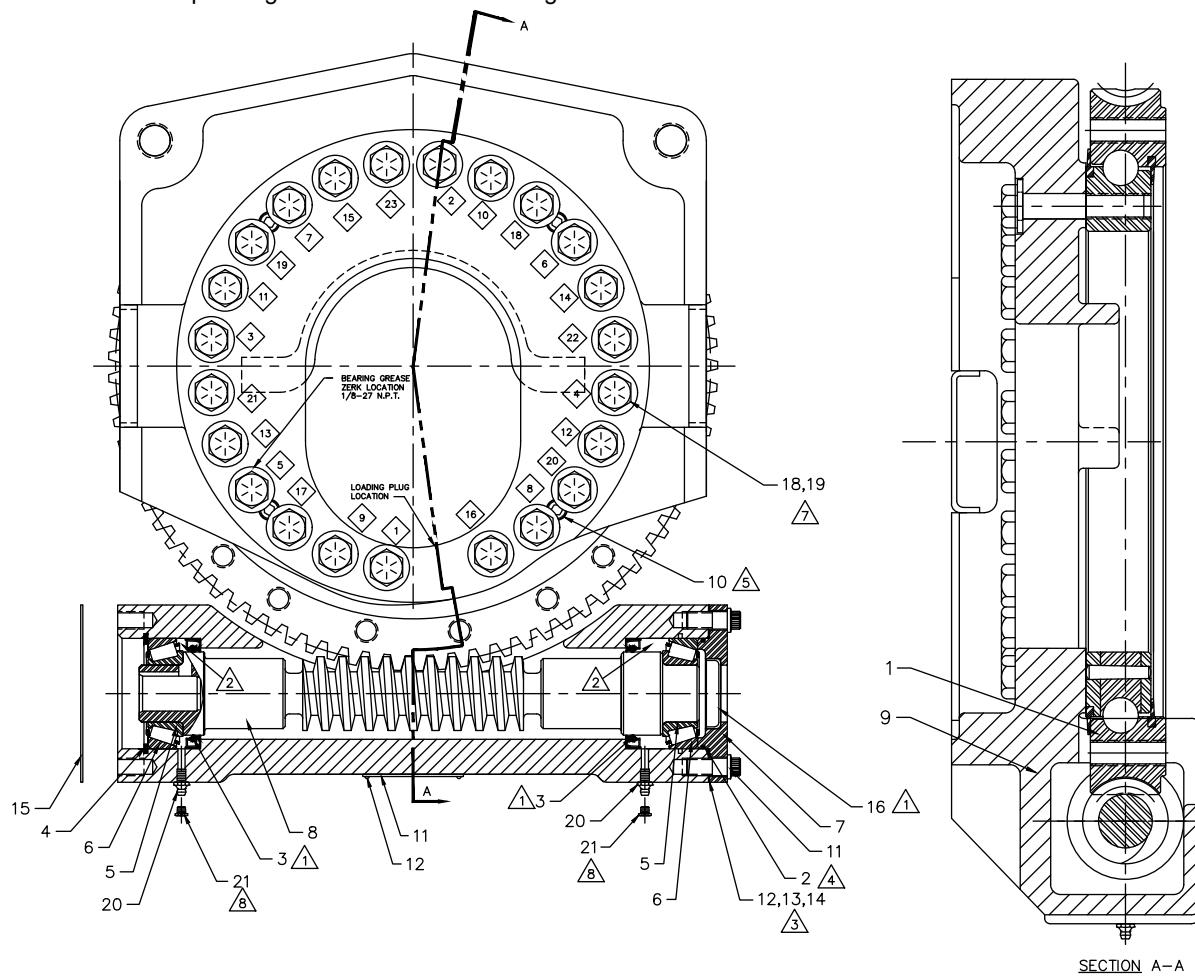
ITEM NO	PART NO.	DESCRIPTION	QTY.
1.	72533583	ELBOW-M STR/45/M JIC 8 6	1
2.	72532670	ELBOW-M JIC/45/F JIC 8 8	1
3.	72063001	WASHER .25 FLAT	4
4.	72062104	NUT .25-20 HEX NYLOCK	4
5.	60140839	BRKT-MAST VB 6000-8600S	2
6.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	4
7.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69	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

Rev. Initial Release

Gear Rotator, Primary (71056543)

Gear Rotator, Primary (71056543)

See NOTES for corresponding numbers inside the triangles.



NOTES:

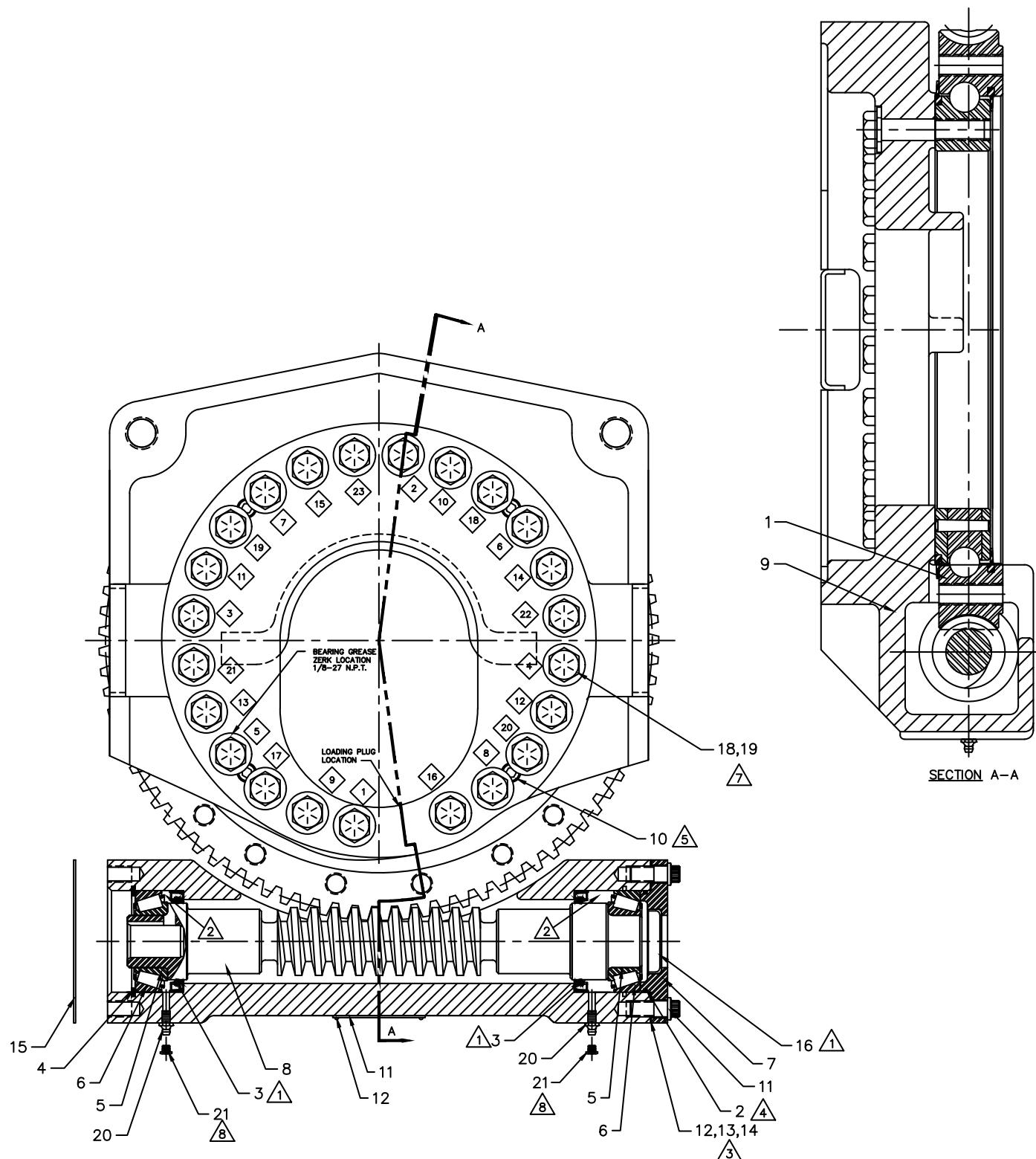
1. INSTALL SEALS (3) AND (21) WITH LOCTITE PLASTIC GASKET (54931) ON O.D.
2. PACK CAVITIES WITH EPO GREASE.
3. SHIM TO OBTAIN .000 / .004 END PLAY ON WORM SHAFT.
4. LUBRICATED O-RING (2) WITH WORM GEAR OIL BEFORE INSTALLING.
5. INSTALL BOLTS (11) WITH LOCTITE 242.
6. SET BACKLASH BETWEEN WORM AND ROTATION BEARING .005 - .012.
7. TIGHTEN 5 / 8 - 11UNC GRADE 8 MOUNTING BOLTS AS FOLLOWS:
 - TIGHTENING MUST BE PROGRESSIVE AND AT 180 DEGREE INTERVALS.
 - FIRST INTERVAL IS AT 70 FT-LB.
 - SECOND INTERVAL IS AT 140 FT-LB.
 - THIRD INTERVAL IS AT 210 FT-LB.
8. TIGHTEN BOLTS IN ORDER SHOWN IN.
9. DO NOT USE LOCTITE ON MOUNTING BOLTS. ITEM (20) SHIPS LOOSE, INSTALL ITEM (21) FOR SHIPPING.

71056543 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	70056527	SRB-E13.5-0.88-085T5	1
2.	70395074	ORING-PARKER #2-234	1
3.	70395076	SEAL-NAT'L #470565	2
4.	70145786	RING-SNAP SPRXL RRN-315	1
5.	70055271	BEARING-CONE TIM 26882 (3816)	2
6.	70055281	BRG-CUP TIMKEN 26830	2
7.	70145501	RETAINER, BEARING 3816	1
8.	70056550	WORM 170-10024-1	1
9.	70145787	HOUSING-MAIN	1
10.	72601734	CAP SCR-SKT 3/8NC X 1-1/4 3816	4
11.	72601733	CAP SCR-FERRY 1/2NC X 1.25 3816	4
12.	73145506	SHIM-METAL (.005 THK) 3816	2
13.	73145505	SHIM-METAL (.015 THK) 3816	2
14.	73145504	SHIM-METAL (.030 THK) 3816	2
15.	76039295	GASKET-HYD MTR (.031)	1
16.	72533604	PLUG-EX CUP DORM #555-069	1
17.	72661504	PIN-DOWELL 3/8 X 1	2
18.	72601751	CAP SCR HX 5/8NC X 2-3/4 GR8	23
19.	72063219	WASHER-PLAIN HARDND 5/8	23
20.	72533605	ZERK-ALEMITE #1792B	2
21.	72533439	VENT PLUG-ALEMITE 328224	2

REV E CN11942

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Gear Rotator, Primary (71056543)

See **NOTES** for corresponding numbers inside the triangles.

71056543 PARTS LIST

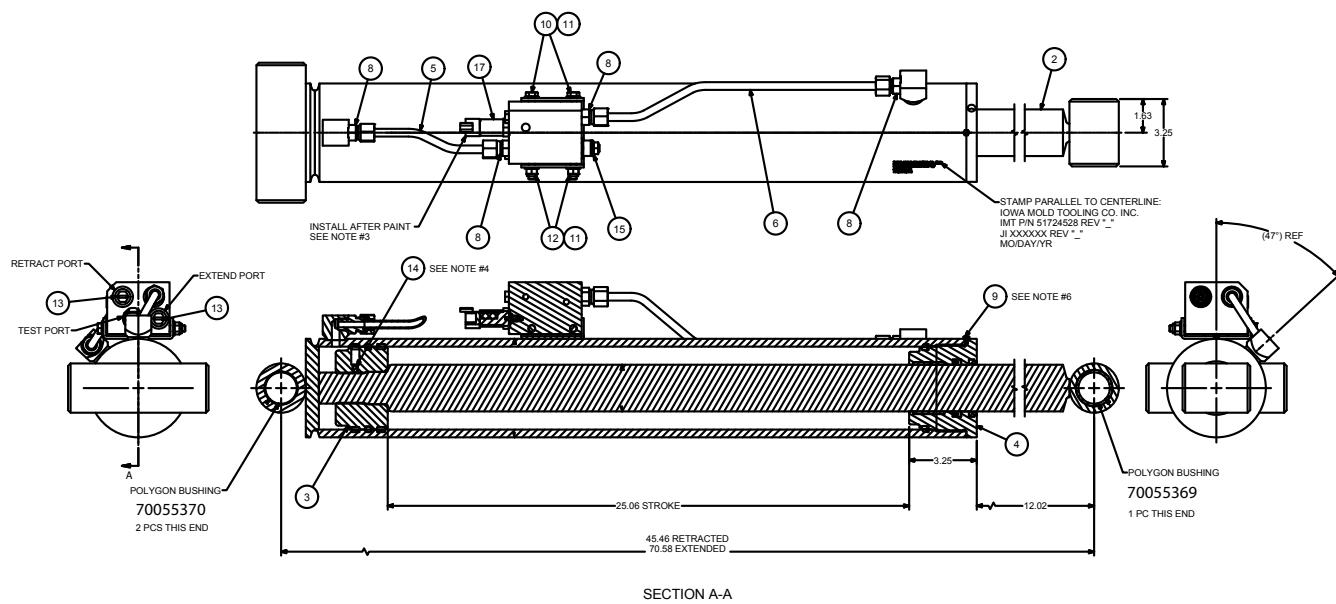
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	70056527	SRB-E13.5-0.88-085T5	1
2.	70395074	ORING-PARKER #2-234	1
3.	70395076	SEAL-NAT'L #470565	2
4.	70145786	RING-SNAP SPRXL RRN-315	1
5.	70055271	BEARING-CONE TIM 26882 (3816)	2
6.	70055281	BRG-CUP TIMKEN 26830	2
7.	70145501	RETAINER, BEARING 3816	1
8.	70056550	WORM 170-10024-1	1
9.	70145787	HOUSING-MAIN	1
10.	72601734	CAP SCR-SKT 3/8NC X 1-1/4 3816	4
11.	72601733	CAP SCR-FERRY 1 /2NC X 1.25 3816	4
12.	73145506	SHIM-METAL (.005 THK) 3816	2
13.	73145506	SHIM-METAL (.015 THK) 3816	2
14.	73145504	SHIM-METAL (.030 THK) 3816	2
15.	76039295	GASKET-HYO MTR (.031)	1
16.	72533604	PLUG-EX CUP DORM #555-069	1
17.	72661504	PIN-DOWELL 3/8 X 1	2
18.	72601751	CAP SCR HX 5/8NC X 2-3/4 GR8	23
19.	72063219	WASHER-PLAIN HARDND 5/8	23
20.	72533605	ZERK-ALEMITE #1792B	2
21.	72533439	VENT PLUG-ALEMITE 328224	2
REV. D			

NOTES:

1. Install seals #3 & #16 with Loctite plastic gasket on O.D.
2. Lubricate seal surface before assembly.
3. Pack cavities with EPO grease.
4. Shim to obtain 0.000 / 0.004 end play on worm shaft.
5. Lubricate o-ring #2 with worm gear oil before installing.
6. Install bolts #10 with Loctite #242.
7. Set backlash between worm and rotation bearing 0.005 - 0.012.
8. Tighten 5/8 - 11 UNC grade 8 mounting bolts as follows:
 - Tighten progressively and at 180° intervals.
 - First interval at 70 ft-lb.
 - Second interval at 140 ft-lb.
 - Third interval at 210 ft-lb.
8. Tighten bolts in order shown in diamonds.
9. Do Not use Loctite on mounting bolts. Item #20 ships loose. Install item #21 for shipping.

WARNING

ANY TIME THE GEAR-BEARING BOLTS HAVE BEEN REMOVED, THEY MUST BE REPLACED WITH NEW BOLTS OF IDENTICAL GRADE AND SIZE. FAILURE TO REPLACE GEAR-BEARING BOLTS MAY RESULT IN BOLT FAILURE DUE TO METAL FATIGUE, CAUSING DEATH OR SERIOUS INJURY.

6000 22' - Lower Cylinder (51724528)

Use Seal Kit: 94399356

51724528 PARTS LIST

PART NO.	ITEM NO.	DESCRIPTION	QTY.
1.	52724531	CASE ASSEMBLY-4.00 BORE X 31.94 L	1
2.		ROD ASSEMBLY	1
3.	PISTON HEAD	PISTON ASSEMBLY	1
4.	HEAD ASM	ROD BEARING ASSEMBLY	1
5.		TRANSFER TUBE	1
6.		TRANSFER TUBE	1
7.		VALVE BLOCK ASSEMBLY	1
8.		FITTING ADAPTER	4
9.		LOCKING SCREW	1
10.	72060037	CAP SCR .31-18X 4.00 HH GR5 Z	2
11.	72063002	WASHER .31 FLAT	4
12.	72062109	NUT .31-18 HEX NYLOCK	2
13.		PLASTIC PLUG SAE O-RING #6	3
14.		.250-20UNC NYLON TIP SET SCREW	1
15.	73540490	VALVE-CBAL CBBB-LAN 1.5:1 3300 PSI	1
16.		STEEL SAE O-RING PLUG #4	1
17.	77041866	TRANSDUCER-HYD 5000 PSI 4-20 mA DT04-3P	1
REV. A			

NOTES:

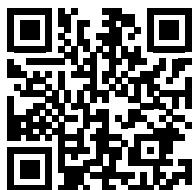
1. See part number and revision stamped on cylinder.
2. Replace all components of the seal kit whenever the cylinder is disassembled to reduce downtime.
3. Apply "lubriplate" no. 630-2 medium heavy, multi-purpose lubricant, to all piston, head gland, and holding valve seals.
4. Torque rod bearing to 500-600 ft-lb (69-83 kg-m), piston set screw to 12-18 ft-lb (1.7-2.5 kg-m), and piston to 200-300 ft-lb (27.6-41.5 kg-m).
5. Use blue locktite on piston.
6. To lock the head gland on the cylinder, drill a #26 hole 0.25-0.30" deep in a seam between the rod bearing and the case. Install locking screw (item #9, self-tapping, item #8, 32 x .25" set screw) in the hole until seated.

NOTE: Items shown are common service items, for part numbers not assigned contact:

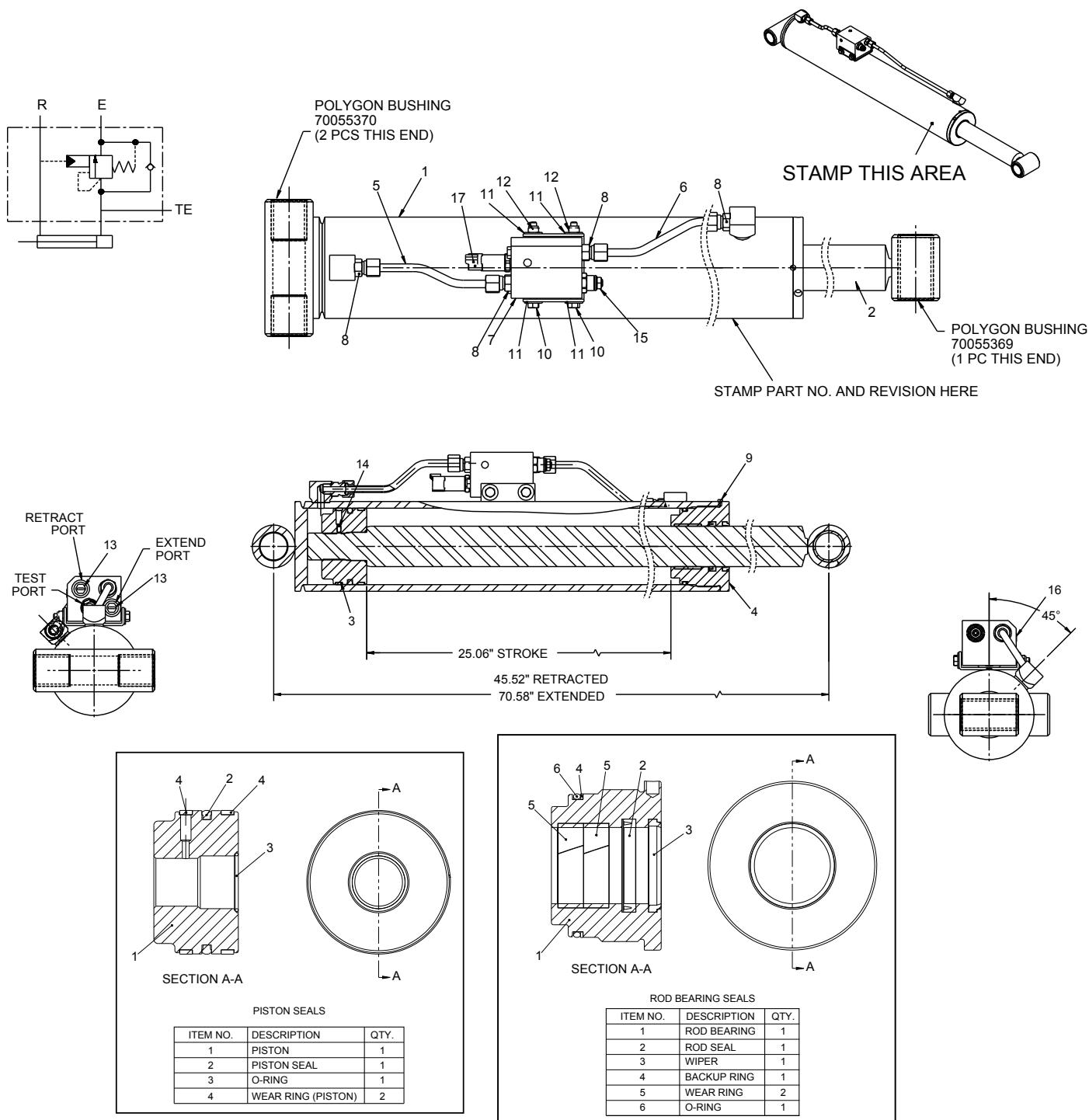
IOWA MOLD TOOLING CO., INC.

TECHNICAL SUPPORT TEAM

TELEPHONE: 800-554-4421



7500 22' - Lower Cylinder (51723577)



51723577 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	52723913	CASE-4.25 BORE X 33.50 LG	1
2.	52723915	ROD ASM-2.25 DIA X XX.XX LG	1
3.	71414679	PISTON-4.25 BORE SIII	1
4.	71414680	ROD BEARING-4.25 BORE X 2.25 ROD	1
5.	71414693	TUBE, TRANSFER	1
6.	71414694	TUBE, TRANSFER	1
7.	73540444	VALVE BLOCK ASSEMBLY W/PRESS TRANSDUCER	1
8.		FITTING ADAPTER	4
9.		LOCKING SCREW	1
10.		5/16"-18 X 4.00 HEX BOLT GR5	2
11.		.31 FLAT WASHER	4
12.		.31-18 NYLOC NUT	2
13.		PLASTIC PLUG SAE O-RING #6	3
14.		.250-20 UNC NYLON TIP SET SCREW	1
15.	73540490	VALVE-CBAL CBBB-LAN 1.5:1 3300 PSI	1
16.		STEEL SAE O-RING PLUG #4	1
17.	77041866	TRANSDUCER-HYD 0-5000PSI 4-20mA 2-Wire	1
REF	94399127	SEAL KIT	1
REV. B			

NOTES:

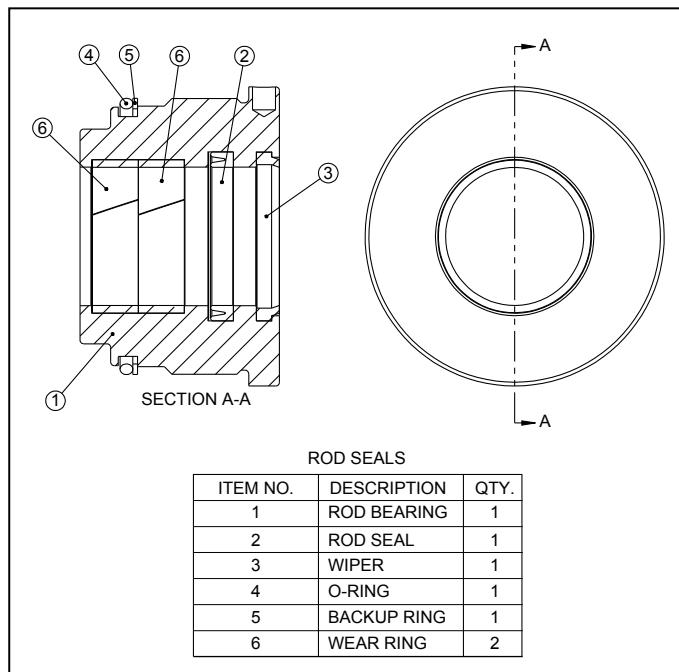
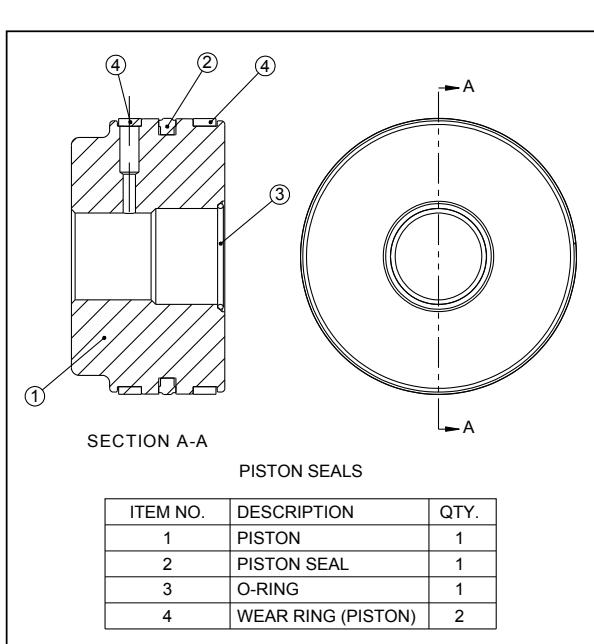
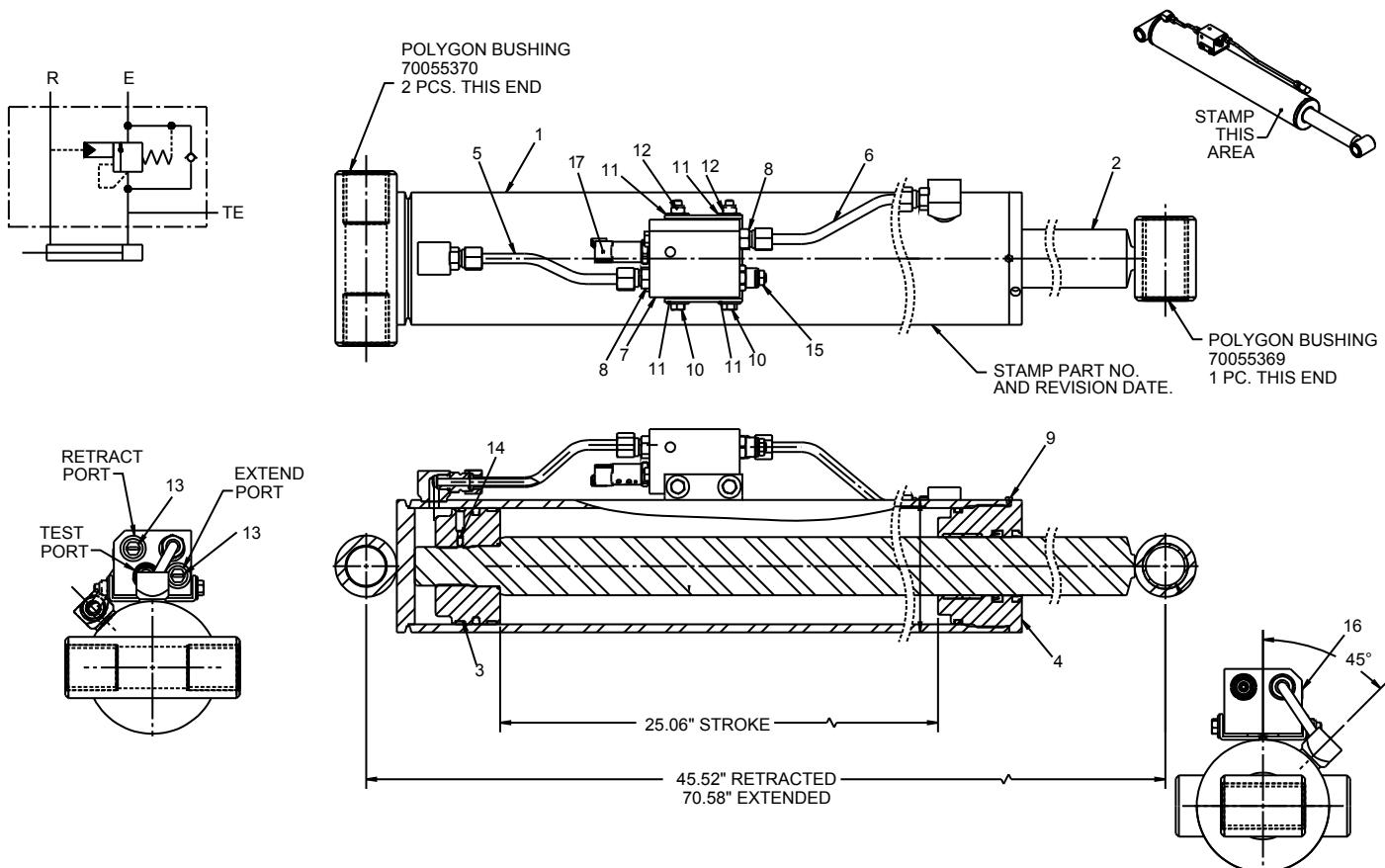
1. SEE PART NUMBER AND REVISION STAMPED ON CYLINDER.
2. REPLACE ALL COMPONENTS OF THE SEAL KIT WHENEVER THE CYLINDER IS DISASSEMBLED TO REDUCE DOWNTIME.
3. APPLY "LUBRIPLATE" NO. 630-2 MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT, TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS.
4. TORQUE ROD BEARING TO 500-600 FT-LB (69-83 kg-m), PISTON SET SCREW TO 12-18 FT-LB (1.7-2.5 kg-m), AND PISTON TO 200-300 FT-LB (27.6-41.5 kg-m).
5. USE BLUE LOCTITE ON PISTON.
6. TO LOCK THE HEAD GLAND ON THE CYLINDER, DRILL A #26 HOLE 0.25-0.30" DEEP IN A SEAM BETWEEN THE ROD BEARING AND THE CASE.
7. INSTALL LOCKING SCREW (ITEM #9, SELF-TAPPING, ITEM #8, 32 X .25" SET SCREW) IN THE HOLE UNTIL SEATED.

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**



8600 22' - Lower Cylinder (51723170)



51723170 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	52723914	CASE-4.25 BORE X 33.50 LG	1
2.	52723915	ROD ASM-2.25 DIA X XX.XX LG	1
3.	71414681	PISTON-4.25 BORE SIII	1
4.	71414682	ROD BEARING-4.25 BORE X 2.25 ROD	1
5.	71414693	TUBE, TRANSFER	1
6.	71414694	TUBE, TRANSFER	1
7.	73540444	VALVE BLOCK ASSEMBLY W/PRESS TRANSDUCER	1
8.		FITTING ADAPTER	4
9.		LOCKING SCREW	1
10.		5/16"-18 X 4.00 HEX BOLT GR5	2
11.		.31 FLAT WASHER	4
12.		.31-18 NYLOC NUT	2
13.		PLASTIC PLUG SAE O-RING #6	3
14.		.250-20 UNC NYLON TIP SET SCREW	1
15.	73540490	VALVE-CBAL CBBB-LAN 1.5:1 3300 PSI	1
16.		STEEL SAE O-RING PLUG #4	1
17.	77041866	TRANSDUCER-HYD 0-5000PSI 4-20mA 2-Wire	1
REF	94399128	SEAL KIT	1
REV. B			

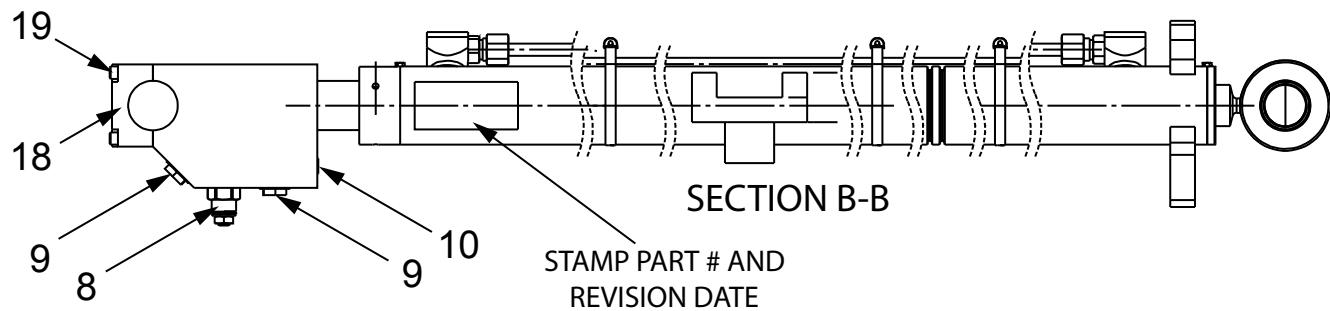
NOTES:

1. SEE PART NUMBER AND REVISION STAMPED ON CYLINDER.
2. REPLACE ALL COMPONENTS OF THE SEAL KIT WHENEVER THE CYLINDER IS DISASSEMBLED TO REDUCE DOWNTIME.
3. APPLY "LUBRIPLATE" NO. 630-2 MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT, TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS.
4. TORQUE ROD BEARING TO 500-600 FT-LB (69-83 kg-m), PISTON SET SCREW TO 12-18 FT-LB (1.7-2.5 kg-m), AND PISTON TO 200-300 FT-LB (27.6-41.5 kg-m).
5. USE BLUE LOCTITE ON PISTON.
6. TO LOCK THE HEAD GLAND ON THE CYLINDER, DRILL A #26 HOLE 0.25-0.30" DEEP IN A SEAM BETWEEN THE ROD BEARING AND THE CASE.
7. INSTALL LOCKING SCREW (ITEM #9, SELF-TAPPING, ITEM #8, 32 X .25" SET SCREW) IN THE HOLE UNTIL SEATED.

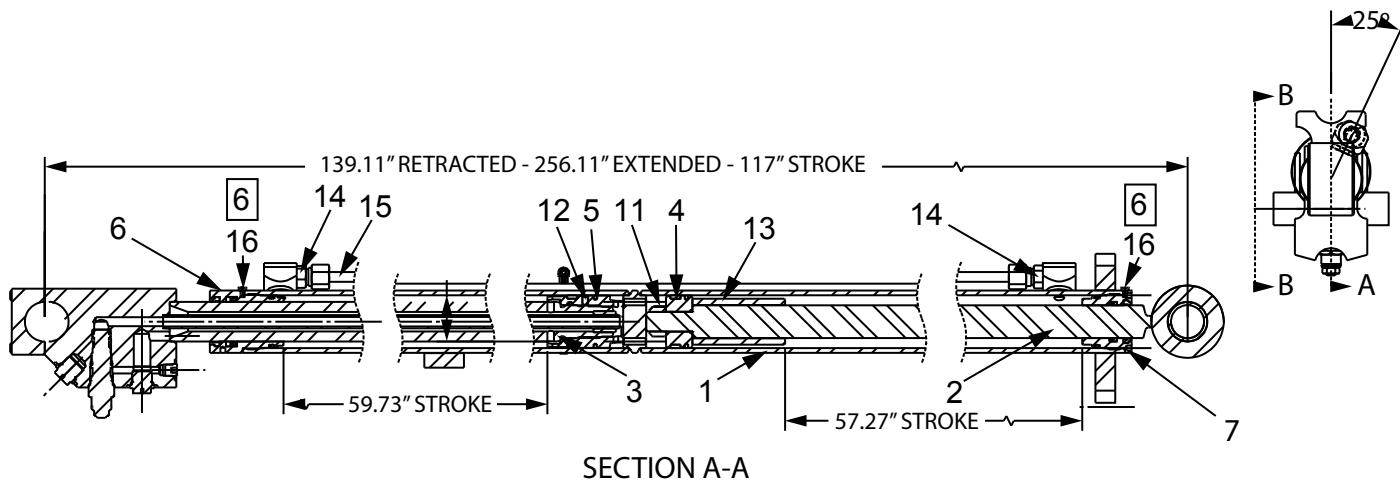
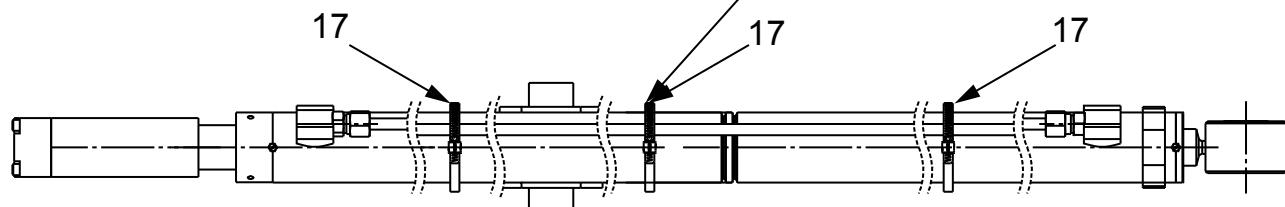
NOTE: Items shown are common service items, for part numbers not assigned contact:

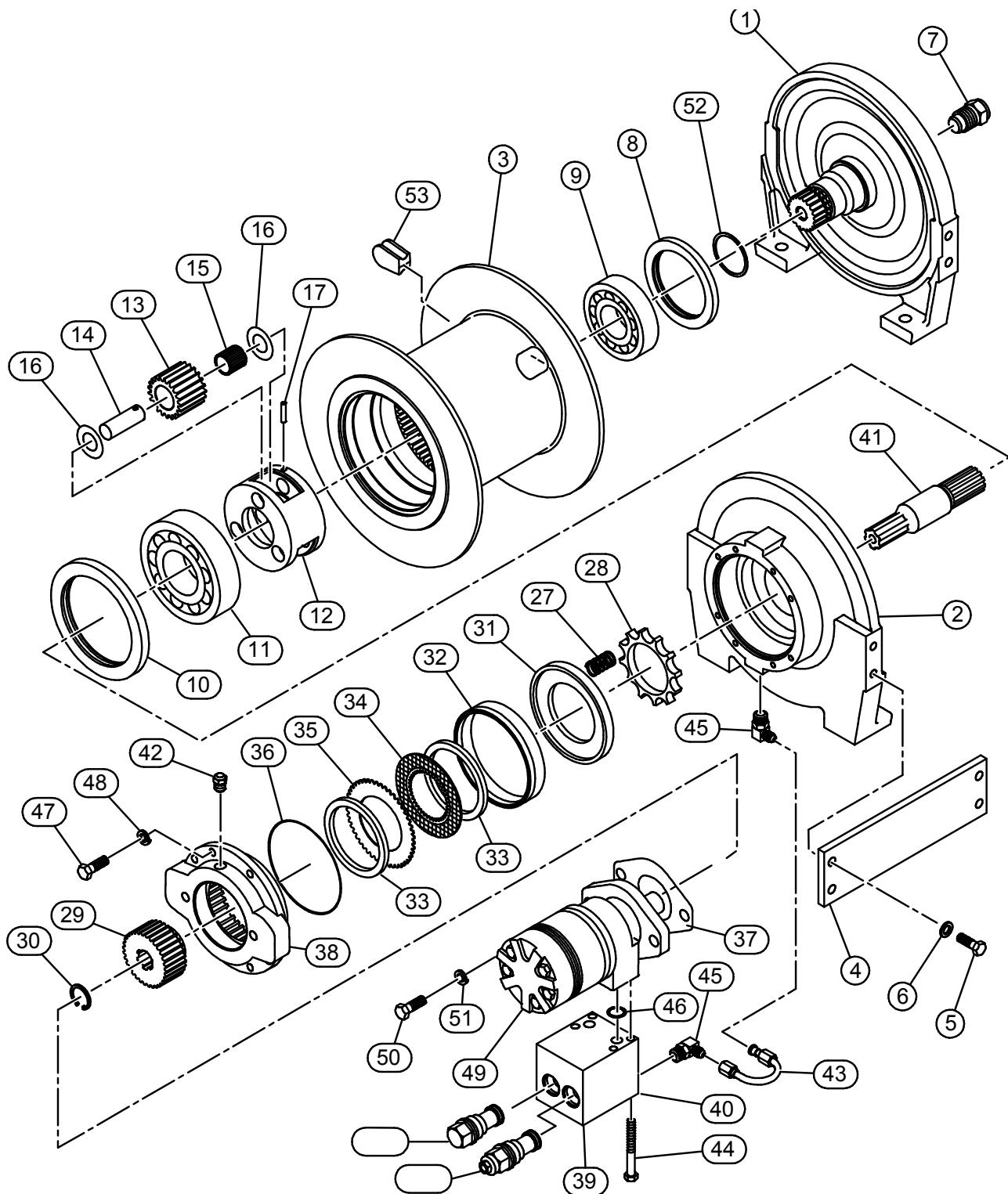
IOWA MOLD TOOLING CO., INC.
TECHNICAL SUPPORT TEAM
TELEPHONE: 800-554-4421

6000, 7500, 8600 22' - Extension Cylinder (51723174)



3 CLAMPS EVENLY SPACED.
CLAMPS ORIENTED AS SHOWN.



Planetary Winch - 5500 lb Line (70570761)

NOTE: Items shown are common service items, for part numbers not assigned contact:

IOWA MOLD TOOLING CO., INC.

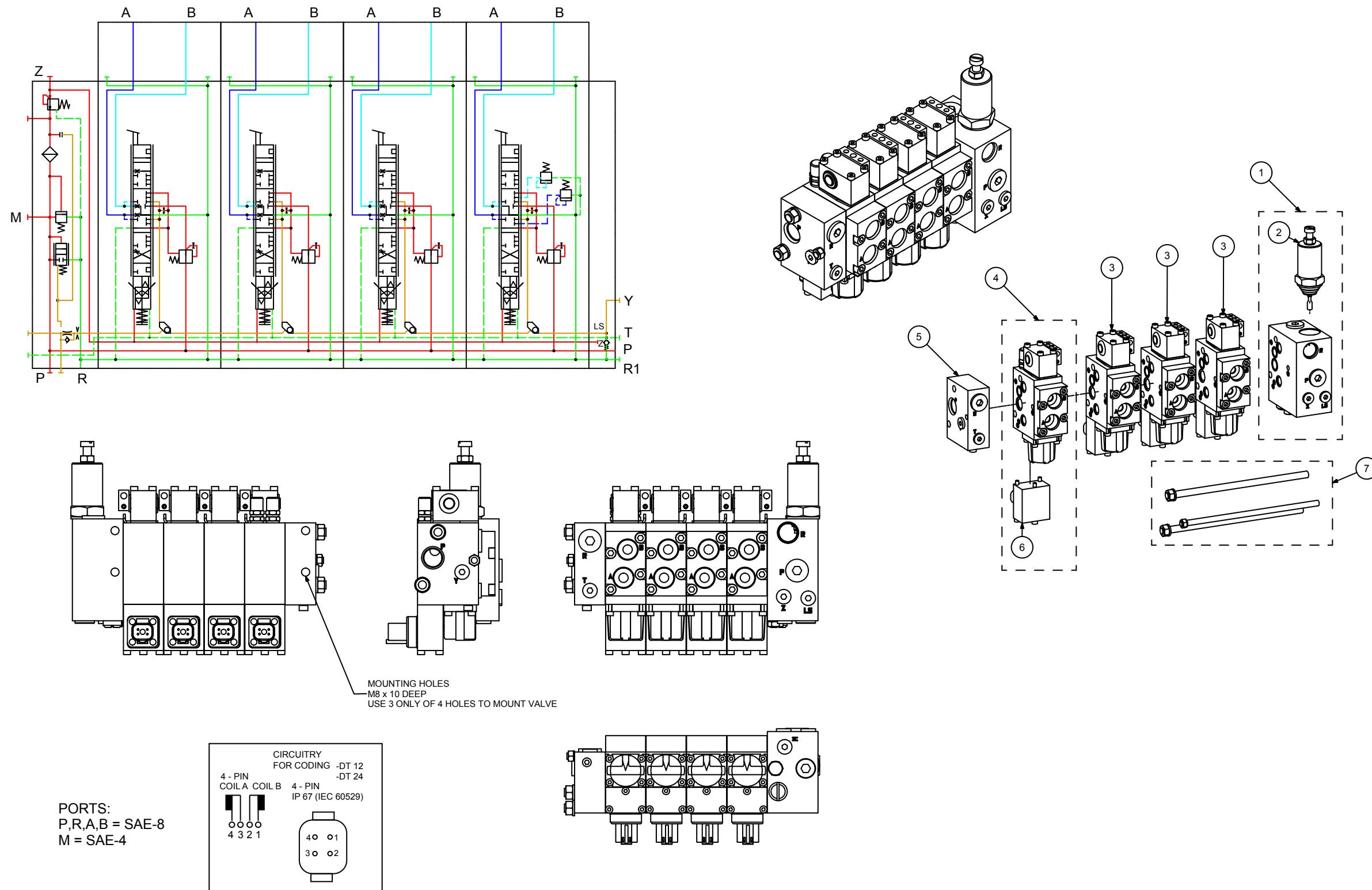
TECHNICAL SUPPORT TEAM

TELEPHONE: 800-554-4421

70570761 PARTS LIST

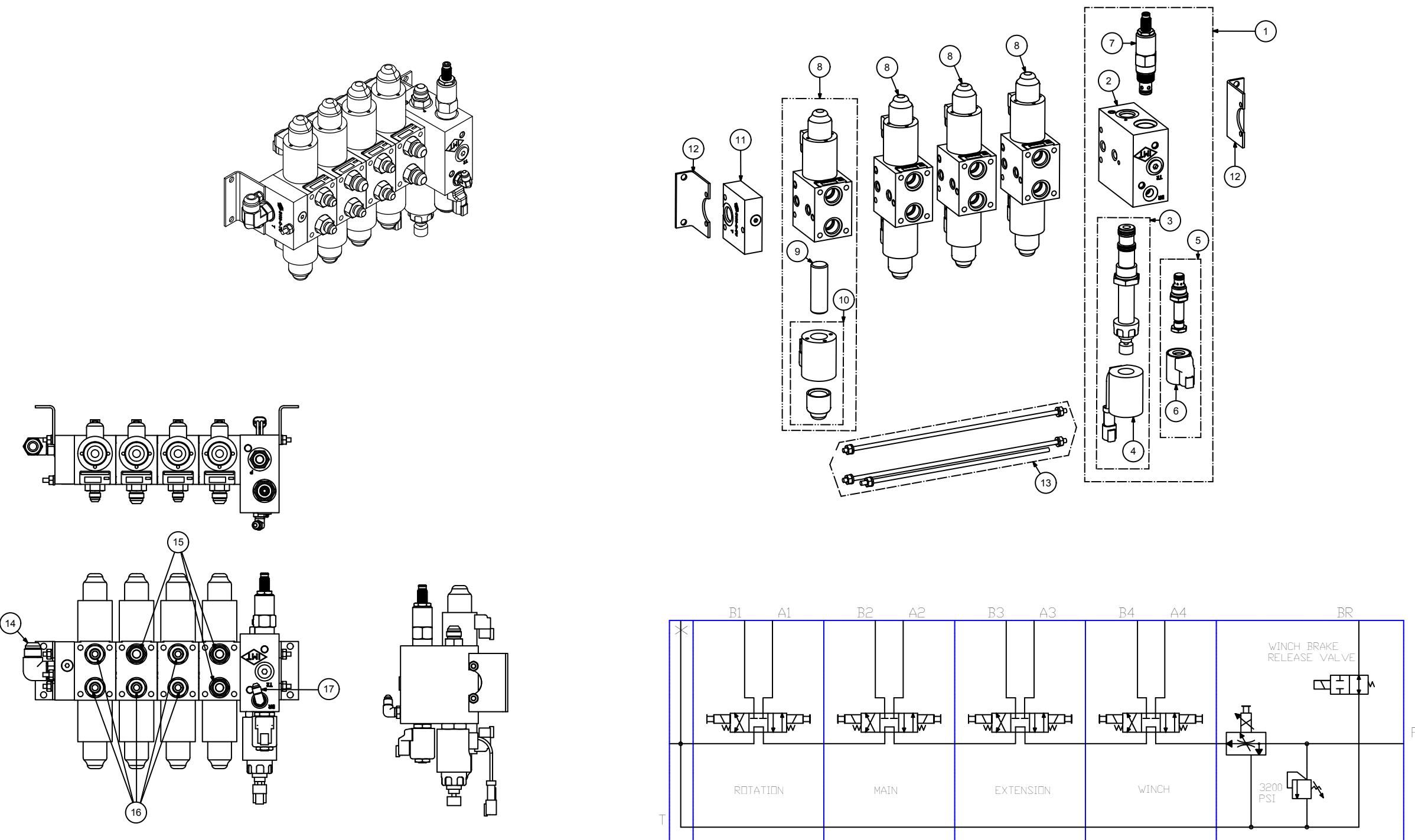
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	-	BEARING SUPPORT END PLATE	1
2.	-	BRAKE CYLINDER END PLATE	1
3.	-	CABLE DRUM	1
4.	-	TIE PLATE	2
5.	-	CAP SCREW (3/8-16 X 1 G8 Z)	8
6.	-	LOCKWASHER (3/8 Z)	8
7.	-	SIGHT GAUGE	1
8.	-	OIL SEAL (PART OF 94744136 SEAL KIT)	1 REF
9.	71411143	BALL BEARING	1
10.	-	OIL SEAL (PART OF 94744136 SEAL KIT)	1 REF
11.	71411144	BALL BEARING	1
12.	-	OUTPUT PLANET CARRIER	1
13.	-	OUTPUT PLANET GEAR	3
14.	-	OUTPUT PLANET GEAR SHAFT	3
15.	71411145	ROLLER BEARING	3
16.	-	THRUST RACE	6
17.	-	ROLL PIN	3
27.	71411146	SPRING	12
28.	-	SPRING LOCATOR	1
29.	-	BRAKE COUPLING	1
30.	-	RETAINING RING	1
31.	-	SPRING PLATE	1
32.	-	BRAKE PISTON SEAL (PART OF 94744136 SEAL KIT)	1 REF
33.	-	BRAKE PLATE SPACER	2
34.	71411147	FRICTION DISK	8
35.	71411148	STEEL DISK	9
36.	-	O-RING (PART OF 94744136 SEAL KIT)	1 REF
37.	-	GASKET (PART OF 94744136 SEAL KIT)	1 REF
38.	-	MOTOR ADAPTER	1
39.	-	BRAKE VALVE BLOCK	1
40.	73540627	BRAKE VALVE ASM (INCLUDES 39, 40A & 40B)	1
40A.	73540620	VALVE CART-CBAL FLOR WINCH VALVE 73540627	1
40B.	73540628	VALVE CART-CHK FOR WINCH VALVE 73540627	1
41.	-	SUN GEAR	1
42.	71411149	VENT PLUG	1
43.	-	TUBE ASSEMBLY	1
44.	-	CAP SCREW (5/16-18 X 3-1/2 G5)	2
45.	-	ELBOW FITTING	2
46.	-	O-RING (PART OF 94744136 SEAL KIT)	2 REF
47.	-	CAP SCREW (5/16-18 X 1 G5)	8
48.	-	LOCKWASHER (5/16)	8
49.	73511057	HYDRAULIC MOTOR	1
50.	-	CAP SCREW (1/2-13 X 1-1/4 G8 Z)	2
51.	-	LOCKWASHER (1/2)	2
52.	-	RETAINING RING	1
53.	71411150	CABLE WEDGE	1
54.	94744136	SEAL KIT (INCLUDES ITEMS #8,10,32,36,37 & 46)	1

REV. D CN742

6000, 7500, 8600 22' - Valve Bank, Fully Proportional (73734727)


73734727 PARTS LIST

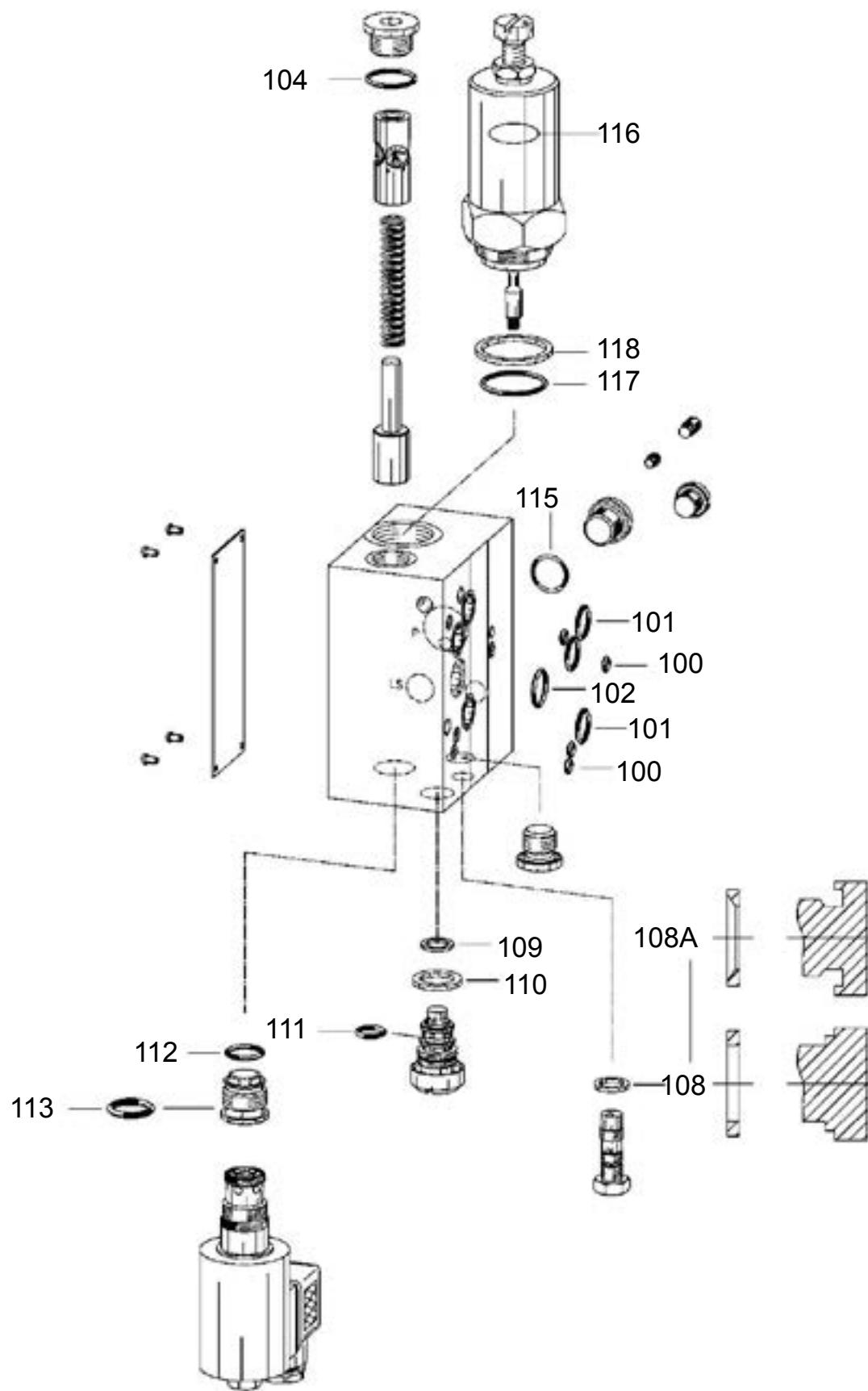
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	73540534	SECT-PSL2 S3FP INLET OPEN CENTER COMP	1
2.	73540538	RELIEF VALVE-PSL2 FOR 73734727 @ 3200PSI	1
3.	73540535	SECT-PSL2 S3FP WINCH/EXT/MAIN 12VDC	3
4.	73540536	SECT-PSL2 S3FP ROTATION 12VDC	1
5.	73540537	SECT-PSL2 S3FP END PLATE	1
6.	77040598	COIL-PSL 12VDC DEUTSCH	4
7.	73540616	TIE ROD KIT-PSL2 4-SECTION	1
8.	94399213	SEAL KIT-73734727 CONNECTION BLOCK (NOT SHOWN)	1
9.	94399214	SEAL KIT - 73734727 SECTIONS (NOT SHOWN)	1
REV. D			

6000, 7500, 8600 22' - Valve Bank, Single Proportional (73734472)


73734472 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	73540617	SECT-BV18 INLET ASM S3SP W RELIEF @ 3200	1
2.	73540394	SECT-BV18 INLET BODY S3SP	1
3.	73540252	VALVE-CART-P FLOW CTRL 12 VDC W MNL OVRD	1
4.	73540253	COIL-FOR 73540252 12VDC DEUTSCH	1
5.	73540397	VALVE-BRAKE RELEASE NO 12VDC DEUTSCH	1
6.	73540256	COIL-S SERIES FOR 73540397 12VDC DEUTSCH	1
7.	73540396	RELIEF VALVE-FOR 73734472 @ 3200 PSI	1
8.	73540375	SECT-BV18 S3SP 12VDC DEUTSCH	4
9.	77041930	SOLENOID TUBE USED ON 73540375	8
10.	90744198	KIT-COIL REPAIR FOR 73540375 12V	8
11.	73540027	END PLATE-BV18 W TURNAROUND	1
12.	70145830	BRKT-MOUNTING EXTRA LONG	2
13.	73540618	TIE ROD KIT-BV18 4-SECTION	1
14.	72533507	ELBOW-M STR/90/M JIC 8 10	1
15.	72532358	ADPTR-M STR/M JIC 8 8	4
16.	72532356	ADPTR-M STR/M JIC 8 6	5
17.	72053758	ELBOW-M STR/90/M JIC 4 4	1

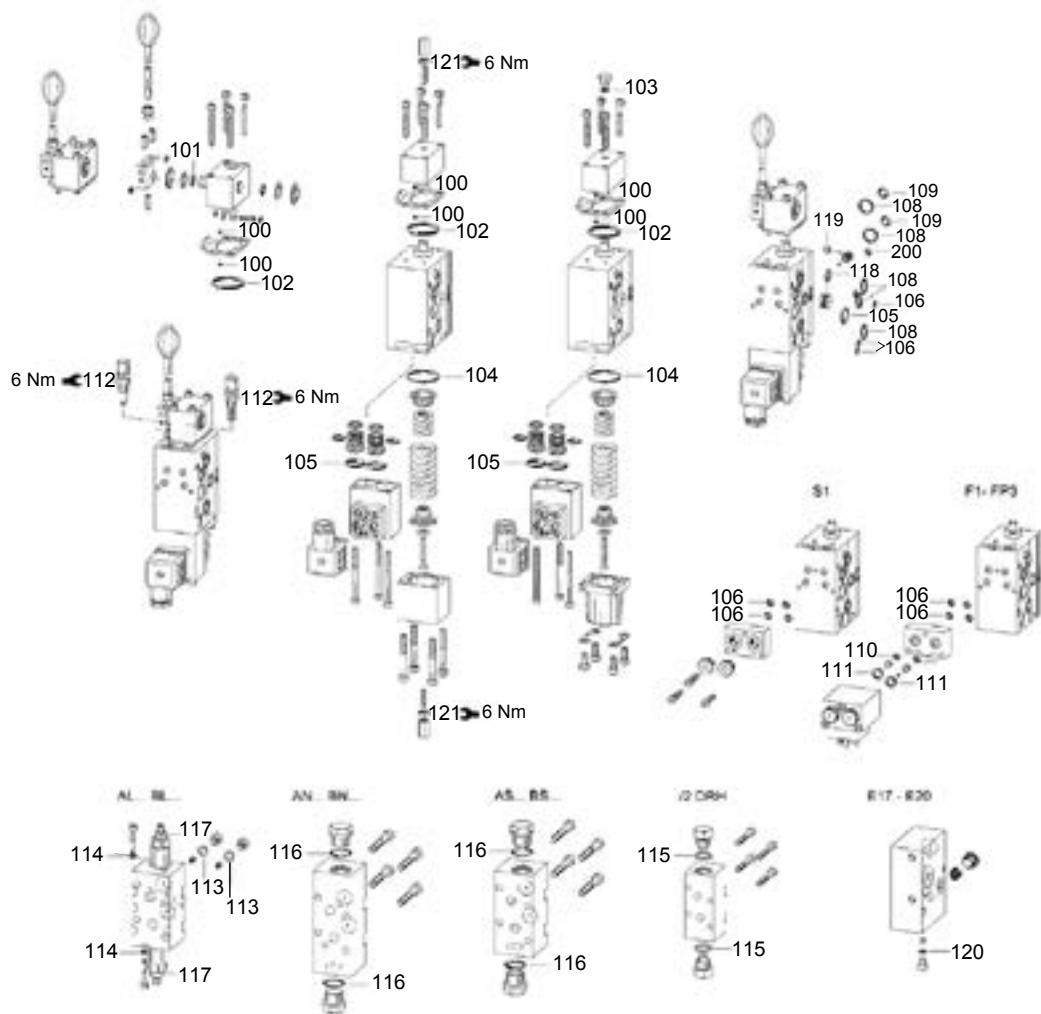
REV. E

Connection Block Seal Kit For 73734727 (94399213)

94399213 PARTS LIST

ITEM NO.	DESCRIPTION	QTY.
100.	O-RING-2.90X1.78 Z24	4
101.	O-RING-10.82X1.78 P5001	3
102.	O-RING-12.42X1.78 P5001	1
104.	O-RING-17.17 X 1.78 P 5001	1
108.	COPPER RING-SHAPE A DIN 7603 10X14X1.5-CU	1
108A.	FITTING SEAL	1
109.	SEAL RING-8.3X11X1.15 PTFE 7625 109/1	1
110.	SEAL-1/4" DRV	1
111.	O-RING-9X1.5 NBR 90 SH	1
112.	O-RING-12.42X1.78 P5001	1
113.	O-RING-14.03X2.61 P5001 94 SH A	1
115.	SEAL-G 1/4" DRV 100116-NB 650 NBR	2
116.	O-RING-15X2 HNBR 90 SH RED SPOT	1
117.	O-RING-23.52X1.78 HNBR 90 SH RED SPOT	1
118.	SEAL RING-27X32X2 ST	1
REV. INITIAL RELEASE		

NOTE: these seals are part of kit no. 94399213, And cannot be purchased individually.

Seal Kit for 73734727 (94399214)

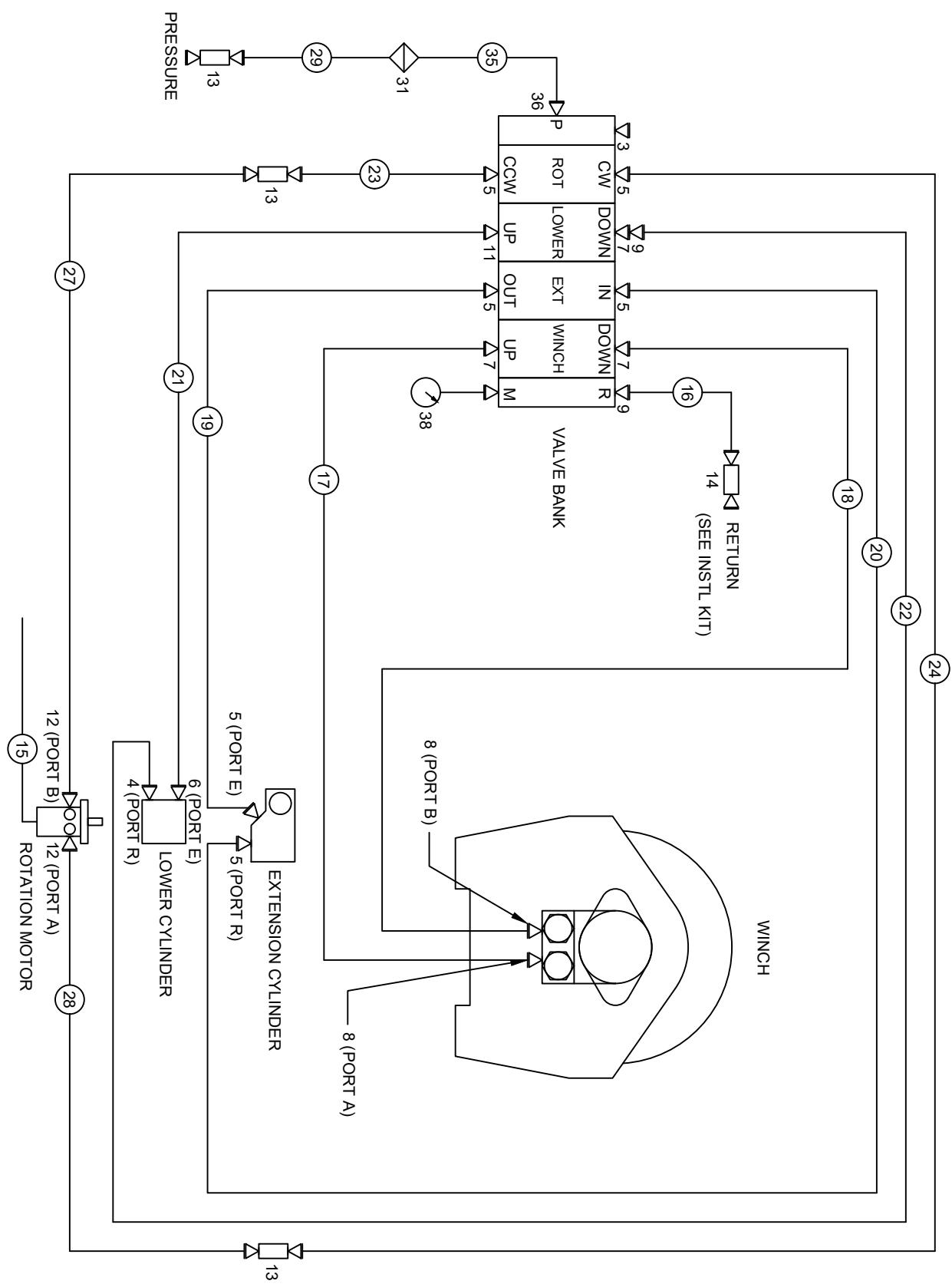
94399214 PARTS LIST

ITEM NO.	DESCRIPTION	QTY.
100.	O-RING- 1 .78 x 1.02 mm	2
101.	O-RING - 6.75 x 1.75 mm P5001	2
102.	O-RING - 25.07 x 2.62 mm Z24	1
103.	USIT-RING - ST 37 STANDARD	1
104.	O-RING - 26.7 x 1.78 mm Z24	1
105.	O-RING - 12.42 x 1.78 mm P5001	3
106.	O-RING - 2.90 x 1.78 mm Z24	6
108.	O-RING - 10.82 x 1.78mm P5001	6
109.	O-RING - 6.07 x 1.78 mm P5001	4
110.	O-RING - 3 x 1.5 mm	2
111.	O-RING - 6.75 x 1.78 mm P5001	2
112.	SEAL NUT	2
113.	USIT-RING - ST 37 STANDARD	2
114.	COPPER RING - 4 x 8 x 1 mm	2
115.	SOFT IRON SEAL RING -	2
116.	O-RING - 17.17 x 1.78 mm P5001	2
117.	SEAL- LOCK COLLAR NUT - M6 12 x 1	2
118.	O-RING - 10.00 x 1.00 mm P5001	1
119.	O-RING - 5.00 x 1.00 mm P5001	2
120.	COPPER RING - 5 x 7.5 x 1 mm	1
121.	SEAL NUT	2

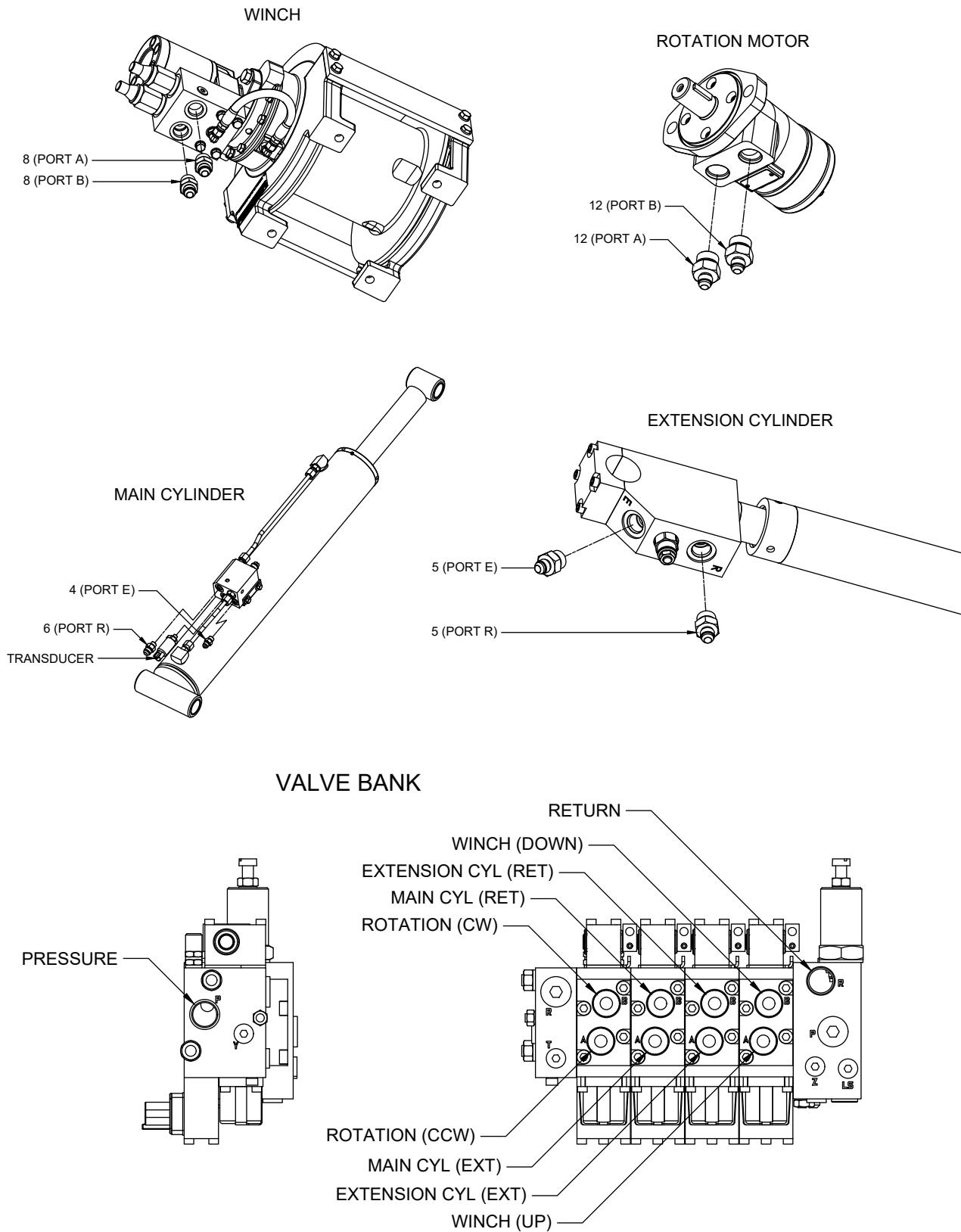
REV. INITIAL RELEASE

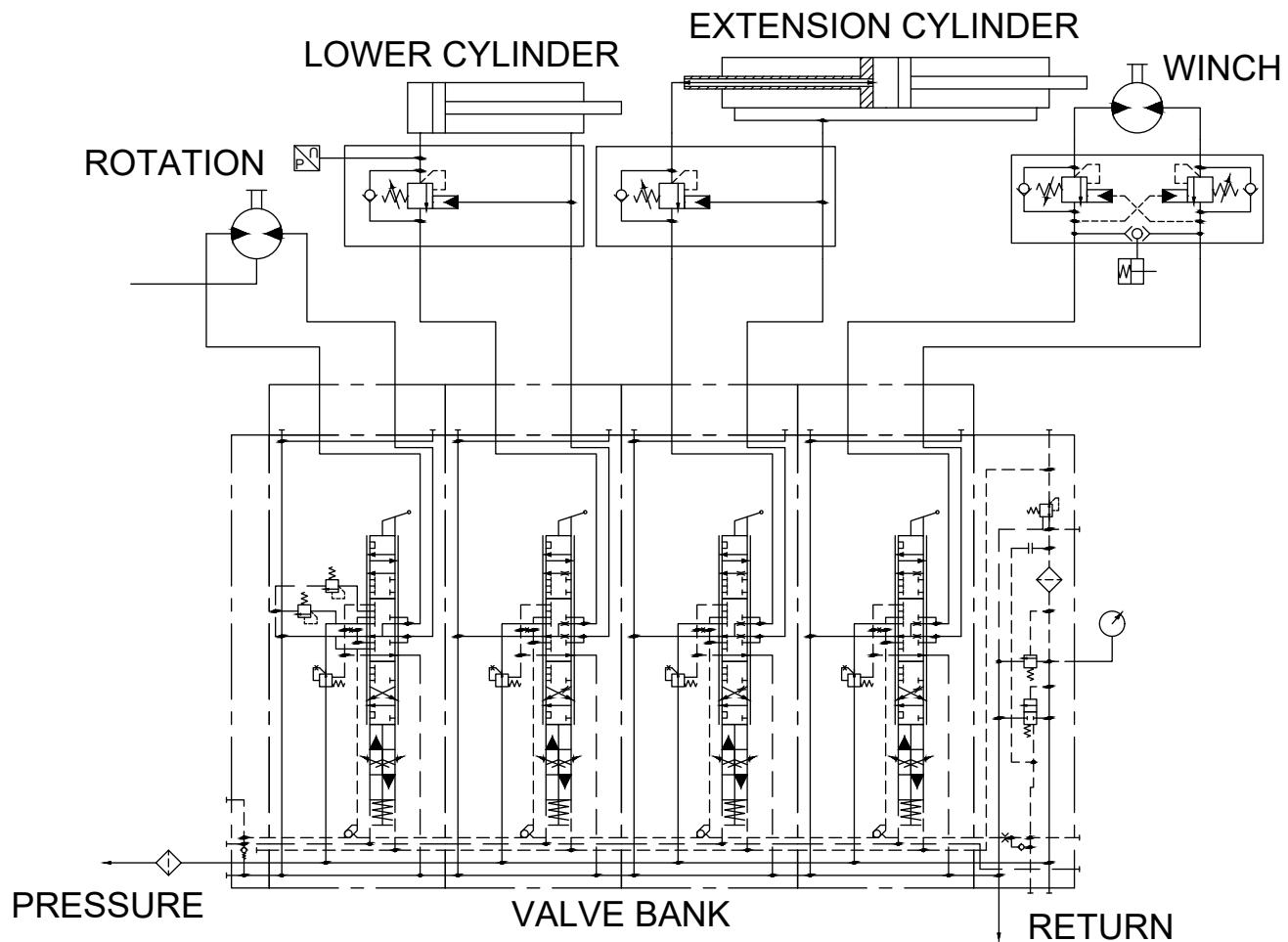
NOTE: These seals are part of kit no. 94399214, and cannot be purchased individually.

Plumbing Diagram, Fully Proportional (99906025)



Plumbing Diagram, Fully Proportional (99906025)



Plumbing Diagram, Fully Proportional (99906025)

99906025 PARTS LIST

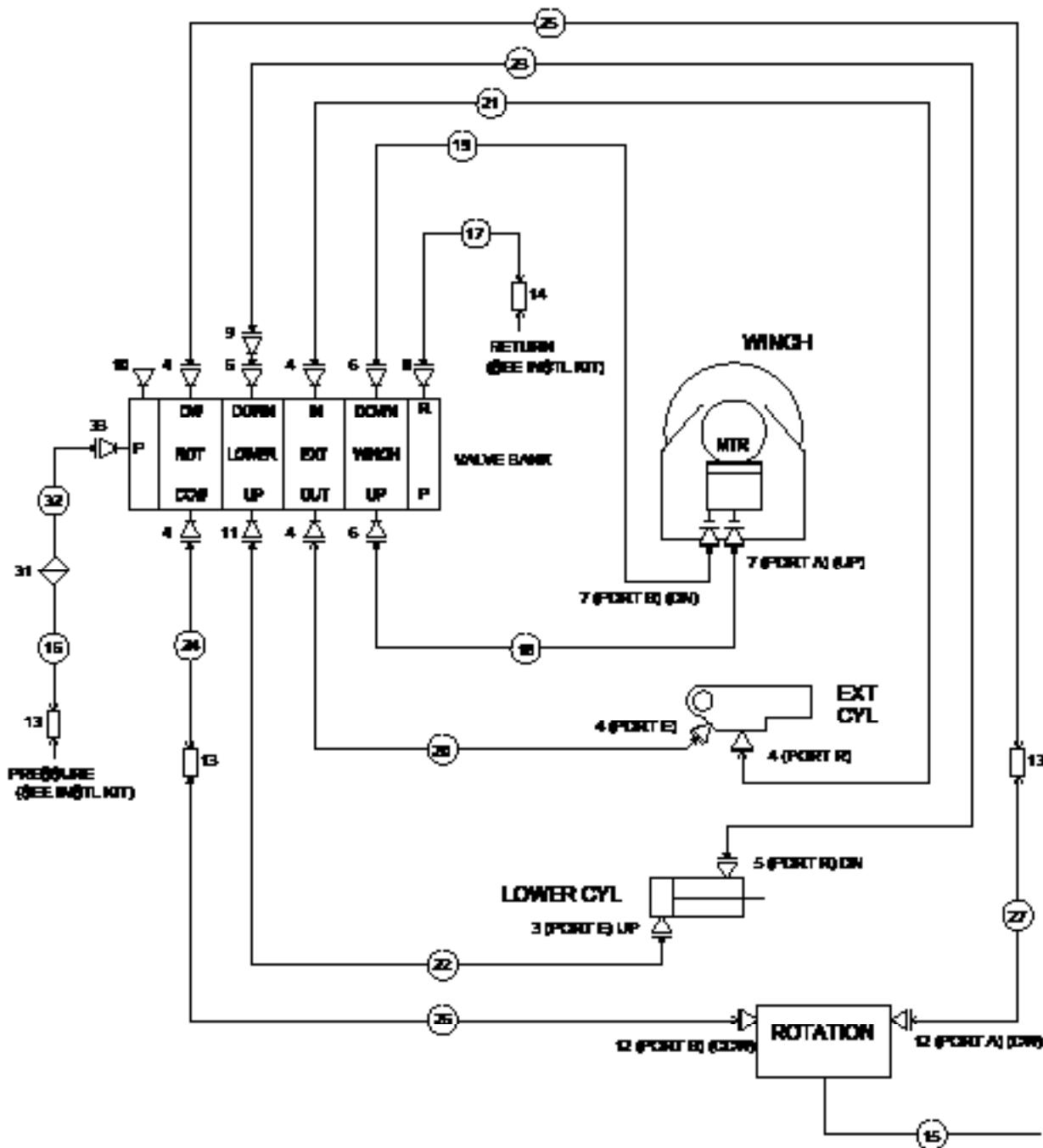
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S	REF	1
2	91725677	KIT-PRESSURE FILTER S3FP SMALL MAST	REF	1
2	73734727	VALVE BANK-4-SECT PSL2 W OC INLT		1
3	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	1	1
4	72532355	ADPTR-M STR/M JIC 6 6	1	1
5	72532356	ADPTR-M STR/M JIC 8 6	1	6
6	72532357	ADPTR-M STR/M JIC 6 8	1	1
7	72532358	ADPTR-M STR/M JIC 8 8	1	4
8	72532359	ADPTR-M STR/M JIC 10 8	1	2
9	72532361	ADPTR-M STR/M JIC 8 10	1	1
10	72532670	ELBOW-M JIC/45/F JIC 8 8	1	1
11	72533583	ELBOW-M STR/45/M JIC 8 6	1	1
12	72533613	ADPTR-M STR/M JIC 10 6	1	2
13	72533648	SWIVEL-M JIC/90/M JIC 8 8	1	3
14	72534412	SWIVEL-M JIC/90/M JIC 10 10	1	1
15	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	1	1
16	51397080	HOSE-FJ .62 X 30.00 (10-10) 100R17	1	1
17	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1	1
18	51397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1	1
19	51396810	HOSE-JZ .38 X 21.50 (6-6) 100R17 180	1	1
20	51396811	HOSE-JJ .38 X 23.00 (6-6) 100R17 180	1	1
21	51399077	HOSE-FJ .38 X 29.00 (6-6) 100R17	1	1
22	51399078	HOSE-FZ .50 X 30.00 (8-8) 100R17	1	1
23	51399072	HOSE-FJ .38 X 22.50 (8-6) 100R17	1	1
24	51399073	HOSE-FZ .38 X 25.00 (8-6) 100R17	1	1
25	60350141	SLEEVE-HOSE NHS-159 X 12 CUT & SEALED	1	3
26	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	1	2
27	51399228	HOSE-FJ .38 X 18.00 (8-6) 100R17	1	1
28	51399229	HOSE-FJ .38 X 22.00 (8-6) 100R17	1	1
29	51399890	HOSE-FJJ .50 X 40.00 (8-8) 100R17	1	1
30	72533003	ADPTR-M STR/M JIC 8 8 XLG	1	1
31	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12	2	1
32	72532360	ADPTR-M STR/M JIC 12 8	2	1
33	72053767	ELBOW-M STR/90/M JIC 12 12	2	1
34	72533623	ELBOW-M STR/90/M JIC 8 12	2	1
35	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST	2	1
36	72534898	O-RING EXTENDER 08-08 1.75	2	1
37	60350105	SLEEVE-HOSE VELCRO CLOSURE 4in DIA		1
38	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB		1

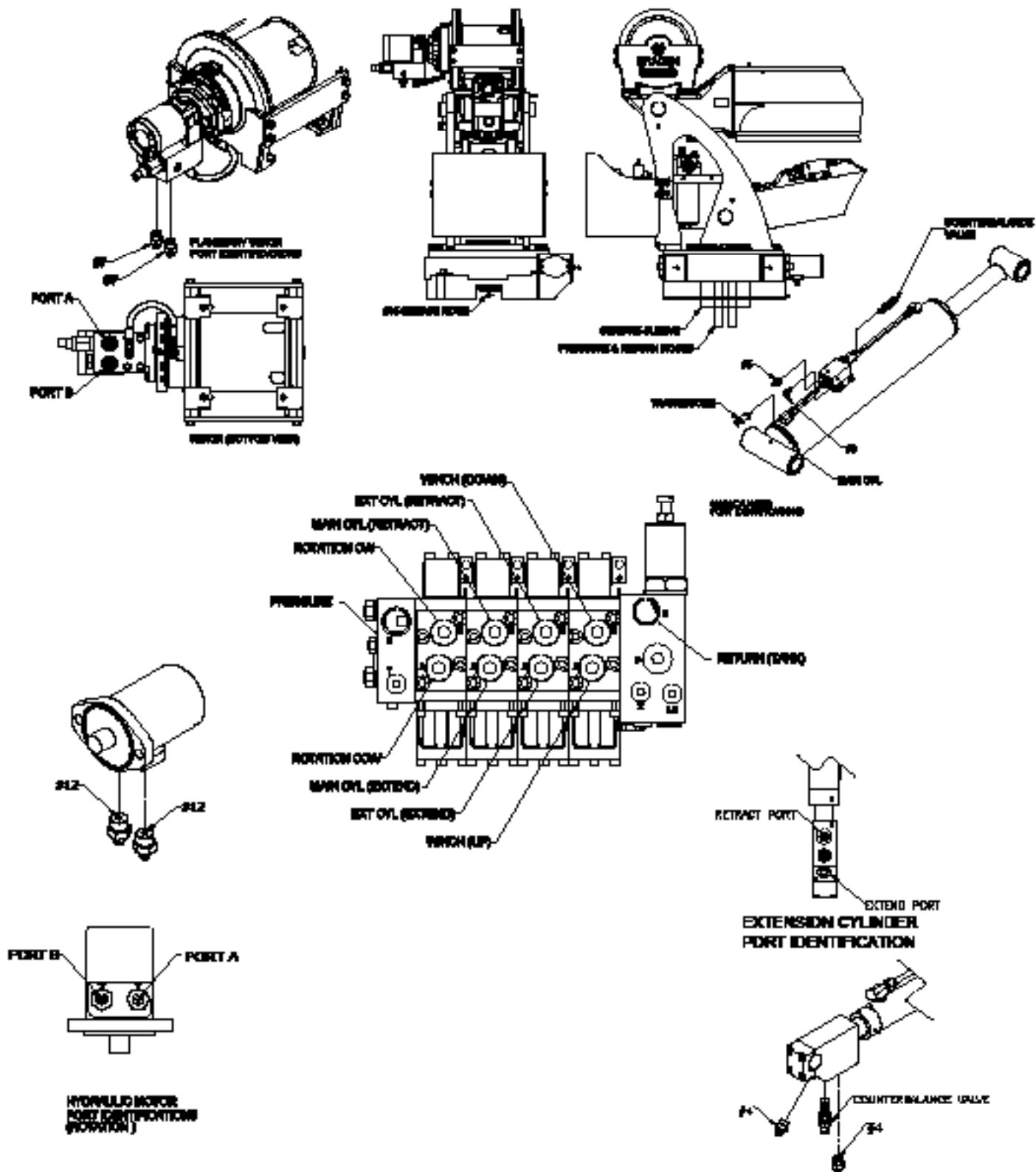
REV B CN1155

NOTES:

1. INSTALL 60350141 ON EXTENSION CYLINDER, MAIN CYLINDER, AND ROTATION MOTOR HOSES.
2. INSTALL 60350142 ON WINCH AND PRESSURE/RETURN VALVE BANK HOSES.
3. INSTALL 60350105 ON PRESSURE/RETURN AND ROTATION HOSES THROUGH MAST.

6000, 7500, 8600 22' - Plumbing Diagram, Fully Proportional (99906025)



99906025-1 PLUMBING DIAGRAM, FULLY PROPORTIONAL (CONTINUED)


99906025 PARTS LIST

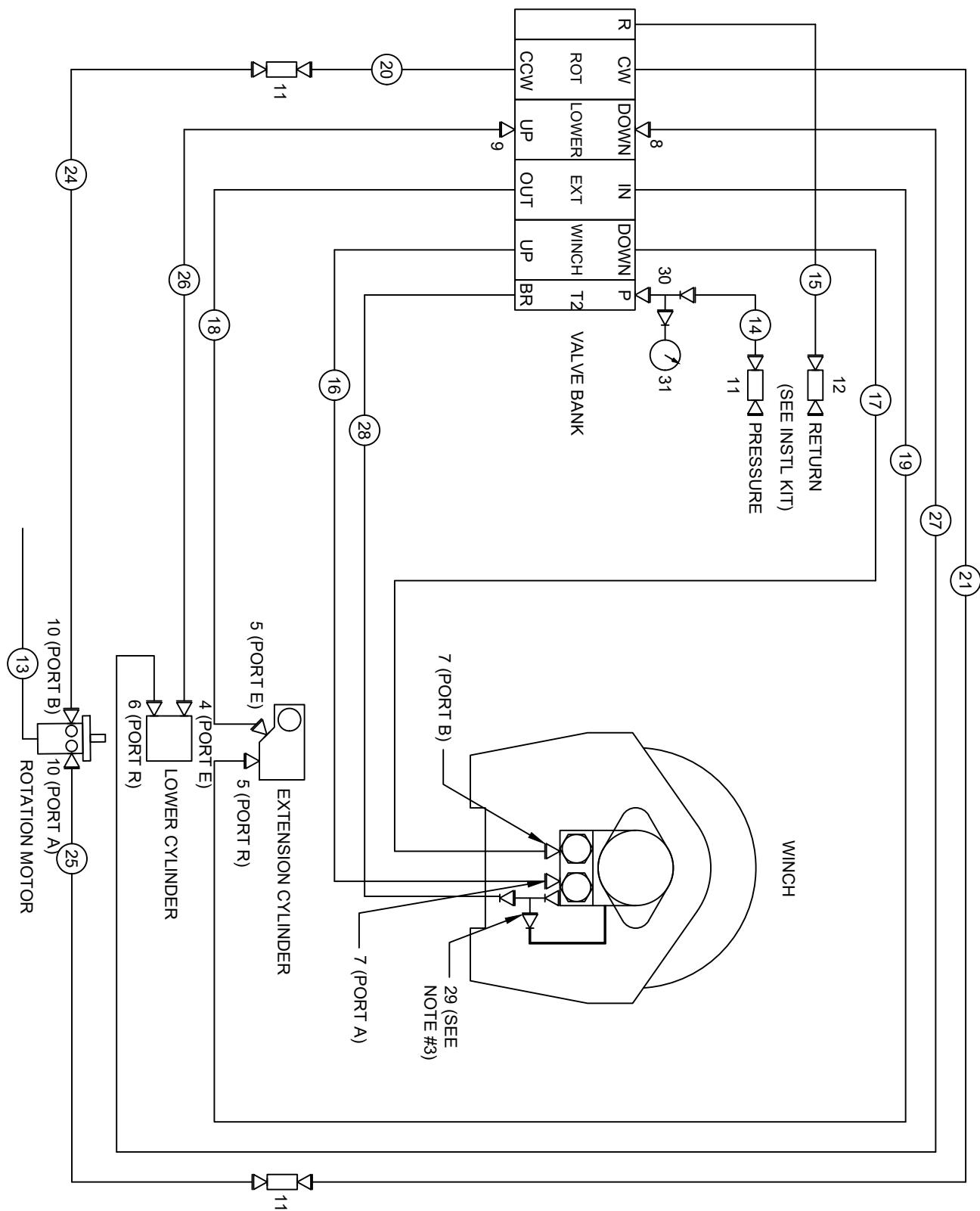
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91726822	KIT-HYD BG4 SERIES III FP 7500/8600S		1
2.	73734727	VALVE BANK-4SEC 4R 10GPM TELE PROP 12V G		1REF
3.	72532355	ADPTR-M STR/M JIC 6 6	1	1
4.	72532356	ADPTR-M STR/M JIC 8 6	1	6
5.	72532357	ADPTR-M STR/M JIC 6 8	1	1
6.	72532358	ADPTR-M STR/M JIC 8 8	1	4
7.	72532359	ADPTR-M STR/M JIC 10 8	1	2
8.	72532361	ADPTR-M STR/M JIC 8 10	1	1
9.	72532670	ELBOW-M JIC/45/F JIC 8 8	1	1
10.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	1	1
11.	72533583	ELBOW-M STR/45/M JIC 8 6	1	1
12.	72533613	ADPTR-M STR/M JIC 10 6	1	2
13.	72533648	SWIVEL-M JIC/90/M JIC 8 8	1	3
14.	72534412	SWIVEL-M JIC/90/M JIC 10 10	1	1
15.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	1	1
16.	51399890	HOSE-FJJ .50 X 40.00 (8-8) 100R17	1	1
17.	51397080	HOSE-FJ .62 X 30.00 (10-10) 100R17	1	1
18.	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1	1
19.	71397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1	1
20.	51396810	HOSE-JZ .38 X 21.50 (6-6) 100R17 180	1	1
21.	51396811	HOSE-JJ .38 X 23.00 (6-6) 100R17 180	1	1
22.	51399077	HOSE-FJ .38 X 30.00 (6-6) 100R17	1	1
23.	51399078	HOSE-FZ .50 X 32.00 (8-8) 100R17	1	1
24.	51399072	HOSE-FJ .38 X 22.50 (8-6) 100R17	1	1
25.	51399073	HOSE-FZ .38 X 25.00 (8-6) 100R17	1	1
26.	51399228	HOSE-FJ .38 X 18.00 (8-6) 100R17	1	1
27.	51399229	HOSE-FJ .38 X 22.00 (8-6) 100R17	1	1
28.	60350141	SLEEVE-HOSE NHS-159 X 12 CUT & SEALED	1	1
29.	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	1	3
30.	60350105	HOSE SLEEVE-WRAP AROUND 4in DIA		2
31.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
32.	71415690	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST		1
33.	72534898	O-RING EXTENDER 08-08		1

REV. A**NOTES:**

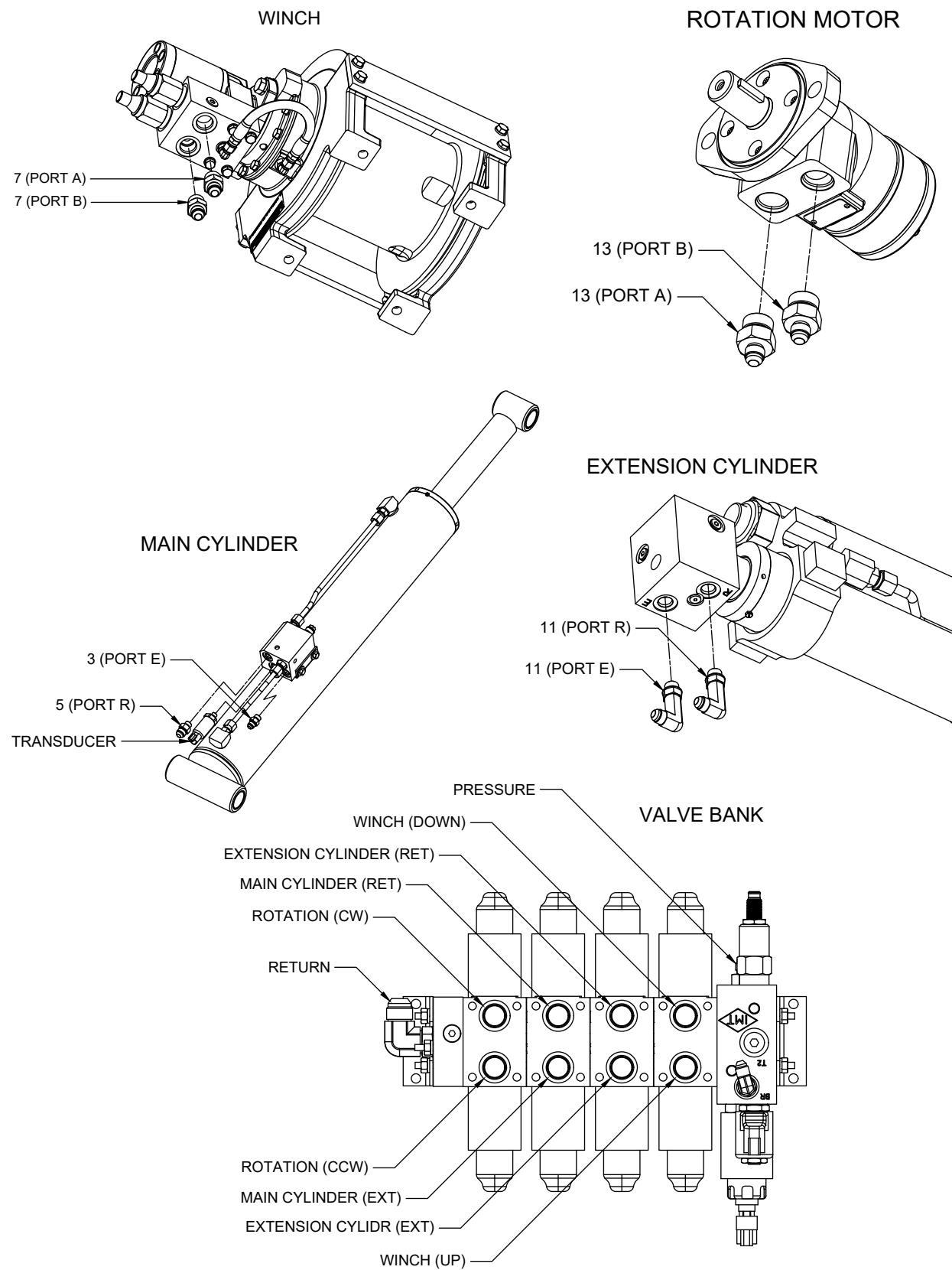
1. See sheet 2 for winch hydraulic motor, lower and extension cylinder.
2. Install 60350141 on extension cylinder, main cylinder hoses and rotation hoses.
3. Install 60350142 on winch hoses, pressure and return valve bank hoses.
4. Install 60350105 on pressure & return hoses, and rotation hoses through mast.

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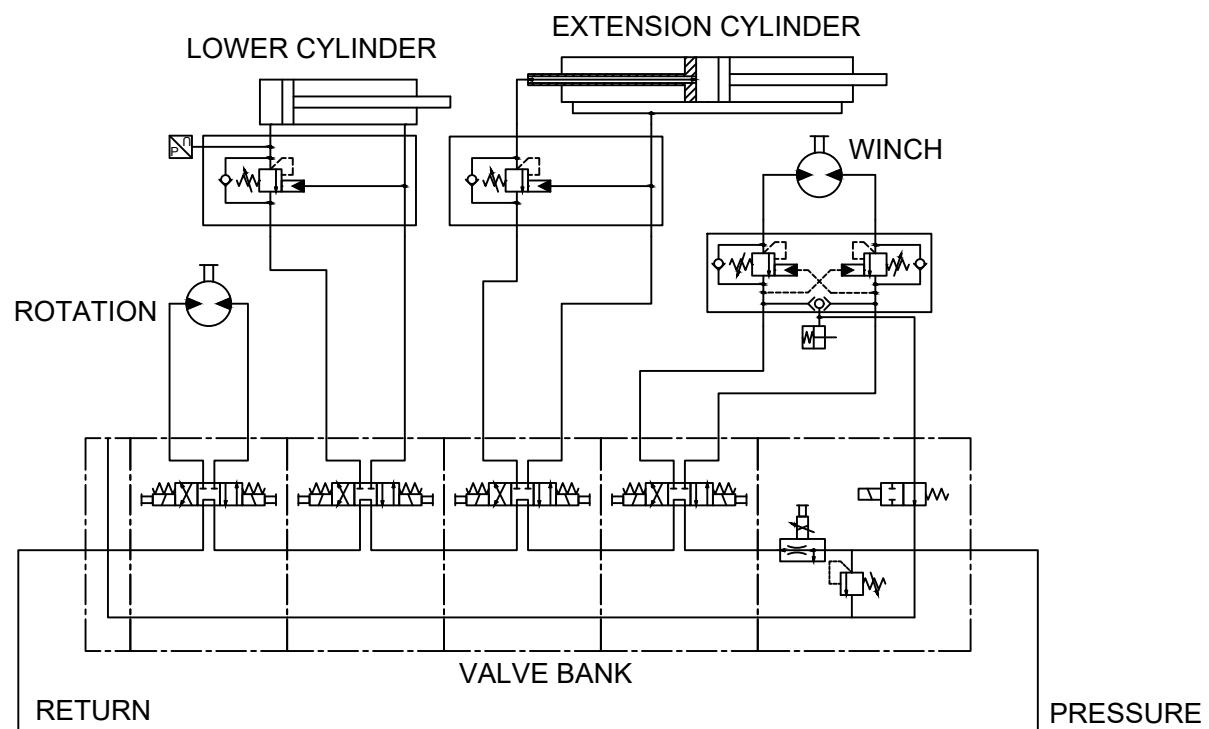
Plumbing Diagram, Single Proportional (99906026)



Plumbing Diagram, Single Proportional (99906026)



Plumbing Diagram, Single Proportional (99906026)



99906026 PARTS LIST

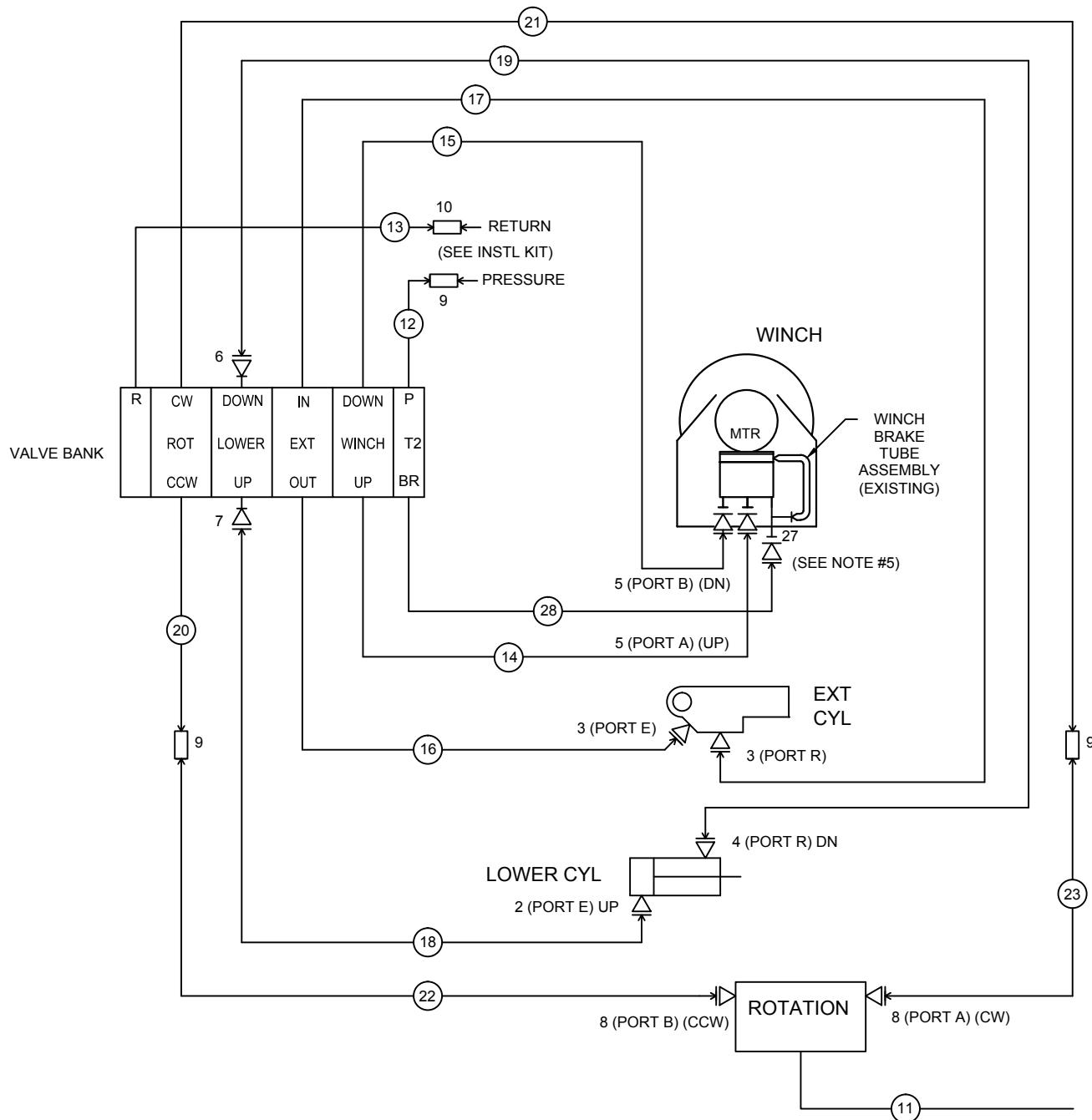
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1	91726823	KIT-HYD BG4 SERIES III SP 7500/8600S	REF	1
2	51726820	KIT-BRADEN WINCH BRAKE RELEASE	REF	1
3	73734472	VALVE BANK-4-SECT BV18 S3SP 12VDC		1
4	72532355	ADPTR-M STR/M JIC 6 6	1	1
5	72532356	ADPTR-M STR/M JIC 8 6	1	2
6	72532357	ADPTR-M STR/M JIC 6 8	1	1
7	72532359	ADPTR-M STR/M JIC 10 8	1	2
8	72532670	ELBOW-M JIC/45/F JIC 8 8	1	1
9	72533583	ELBOW-M STR/45/M JIC 8 6	1	1
10	72533613	ADPTR-M STR/M JIC 10 6	1	2
11	72533648	SWIVEL-M JIC/90/M JIC 8 8	1	3
12	72534412	SWIVEL-M JIC/90/M JIC 10 10	1	1
13	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	1	1
14	51396017	HOSE-FJ .50 X 30.00 (8-8) 100R16	1	1
15	51397080	HOSE-FJ .62 X 30.00 (10-10) 100R17	1	1
16	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1	1
17	51397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1	1
18	51396810	HOSE-JZ .38 X 21.50 (6-6) 100R17 180	1	1
19	51396811	HOSE-JJ .38 X 23.00 (6-6) 100R17 180	1	1
20	51399072	HOSE-FJ .38 X 22.50 (8-6) 100R17	1	1
21	51399073	HOSE-FZ .38 X 25.00 (8-6) 100R17	1	1
22	60350141	SLEEVE-HOSE NHS-159 X 12 CUT & SEALED	1	3
23	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	1	2
24	51399228	HOSE-FJ .38 X 18.00 (8-6) 100R17	1	1
25	51399229	HOSE-FJ .38 X 22.00 (8-6) 100R17	1	1
26	51399462	HOSE-FJ .38 X 31.00 (6-6) 100R17	1	1
27	51399463	HOSE-FZ .50 X 32.00 (8-8) 100R17	1	1
28	51399908	HOSE-FF .25 X 32.00 (4-4) 100R17	2	1
29	72534582	TEE-STL STR/JIC/JIC 4 4 4 RUN	2	1
30	72534847	ADPTR-M JIC/F JIC 8 8 DIAGNOSTIC TEE		1
31	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB		1

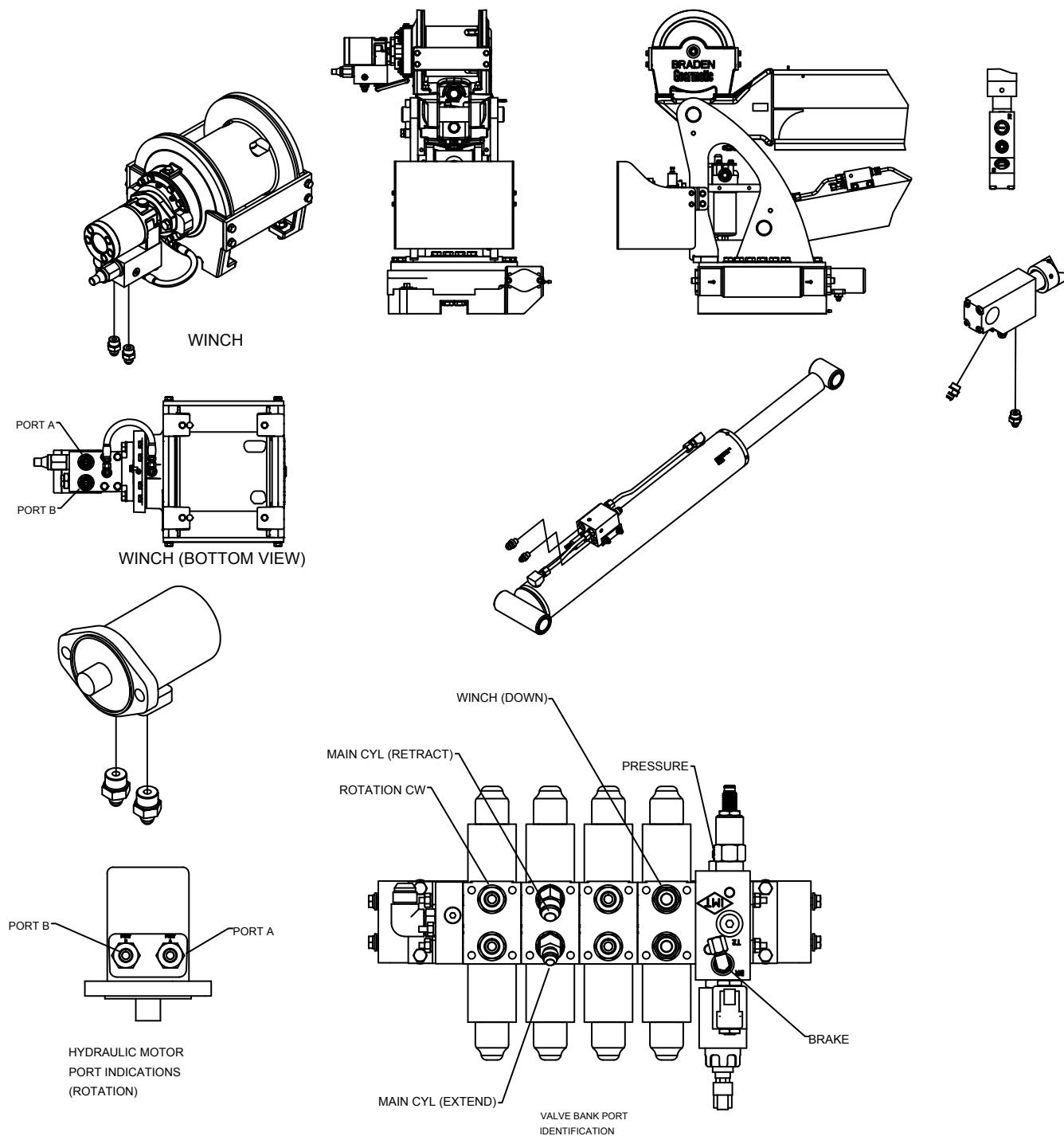
REV. B CN1155

NOTES:

1. INSTALL 60350141 ON EXTENSION CYLINDER, MAIN CYLINDER, AND ROTATION MOTOR HOSES.
2. INSTALL 60350142 ON WINCH AND PRESSURE/RETURN VALVE BANK HOSES.

Plumbing Diagram, Single Proportional (99906026)



99906026-1 PLUMBING DIAGRAM, SINGLE PROPORTIONAL (CONTINUED)


99906026 PARTS LIST

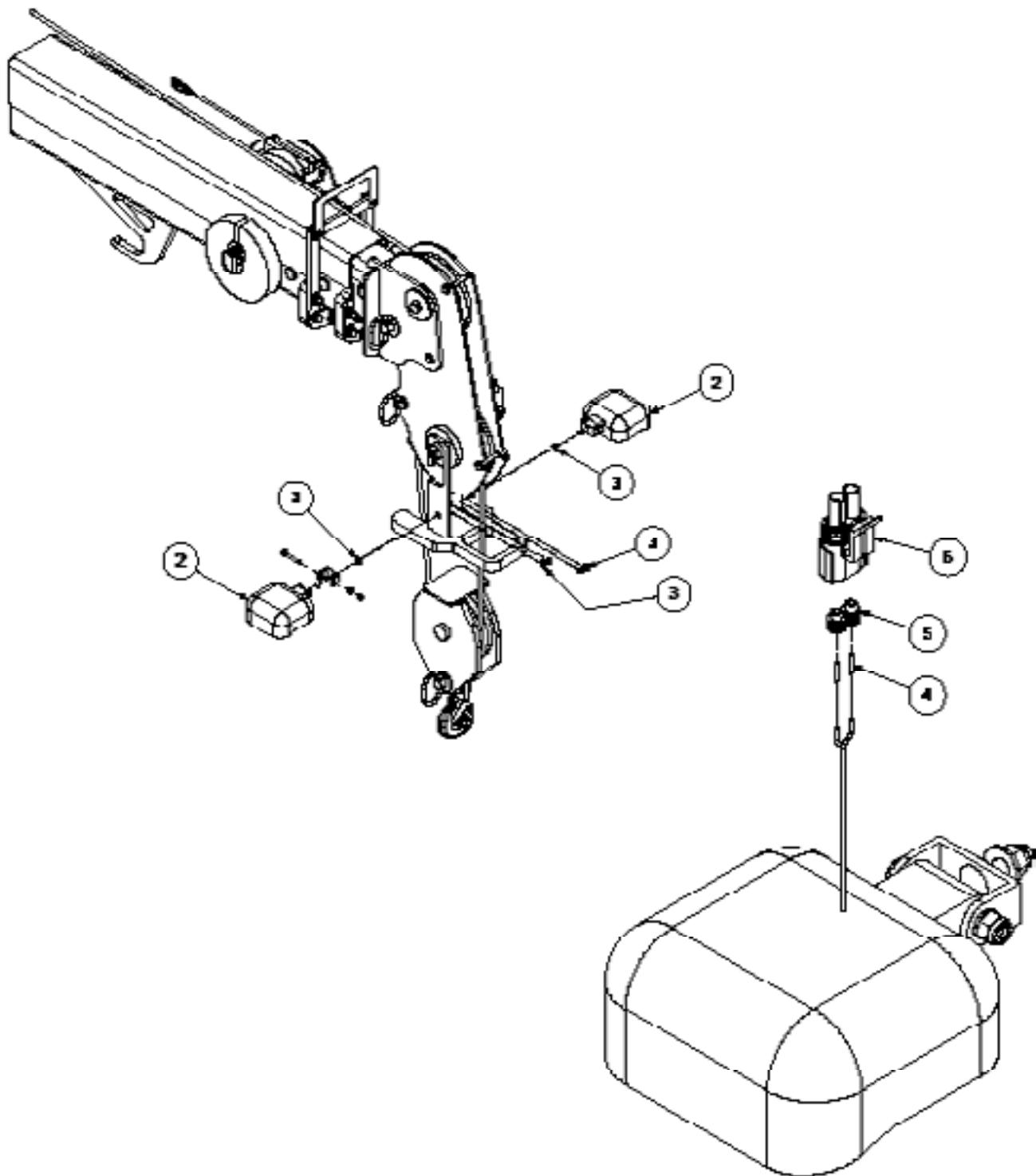
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91726823	KIT-HYD BG4 SERIES III FP 7500/8600S		1
2.	72532355	ADPTR-M STR/M JIC 6 6	1	1
3.	72532356	ADPTR-M STR/M JIC 8 6	1	6
4.	72532357	ADPTR-M STR/M JIC 6 8	1	1
5.	72532359	ADPTR-M STR/M JIC 10 8	1	2
6.	72532670	ELBOW-M JIC/45/F JIC 8 8	1	1
7.	72533583	ELBOW-M STR/45/M JIC 8 6	1	1
8.	72533613	ADPTR-M STR/M JIC 10 6	1	2
9.	72533648	SWIVEL-M JIC/90/M JIC 8 8	1	3
10.	72534412	SWIVEL-M JIC/90/M JIC 10 10	1	1
11.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	1	1
12.	51396017	HOSE-FJ .50 X 30.00 (8-8) 100R16	1	1
13.	51397080	HOSE-FJ .62 X 30.00 (10-10) 100R17	1	1
14.	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1	1
15.	51397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1	1
16.	51396810	HOSE-JZ .38 X 21.50 (6-6) 100R17 180	1	1
17.	51396811	HOSE-JJ .38 X 23.00 (6-6) 100R17 180	1	1
18.	51399462	HOSE-FJ .38 X 31.00 (6-6) 100R17	1	1
19.	51399463	HOSE-FZ .50 X 32.00 (8-8) 100R17	1	1
20.	51399072	HOSE-FJ .38 X 22.50 (8-6) 100R17	1	1
21.	51399073	HOSE-FZ .38 X 25.00 (8-6) 100R17	1	1
22.	51399228	HOSE-FJ .38 X 18.00 (8-6) 100R17	1	1
23.	51399229	HOSE-FJ .38 X 22.00 (8-6) 100R17	1	1
24.	60350141	SLEEVE-HOSE NHS-159 X 12 CUT & SEALED	1	3
25.	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	1	2
26.	51726820	KIT-BRADEN WINCH BRAKE RELEASE		1
27.	72534582	TEE-STL STR/JIC/JIC 4 4 4 RUN	26	1
28.	51399908	HOSE-FF .25 X 32.00 (4-4) 100R17	26	1
REV. A				

NOTES:

1. See sheet 2 for winch hydraulic motor, lower and extension cylinder.
2. Install 60350141 on extension cylinder, main cylinder hoses and rotation hoses.
3. Install 60350142 on winch hoses, pressure and return valve bank hoses.
4. Install 60350105 on pressure & return hoses, and rotation hoses through mast.
5. Remove brake hose from fitting in winch motor block.
6. Remove and replace fitting with tee (item #27). Reinstall hose onto tee.

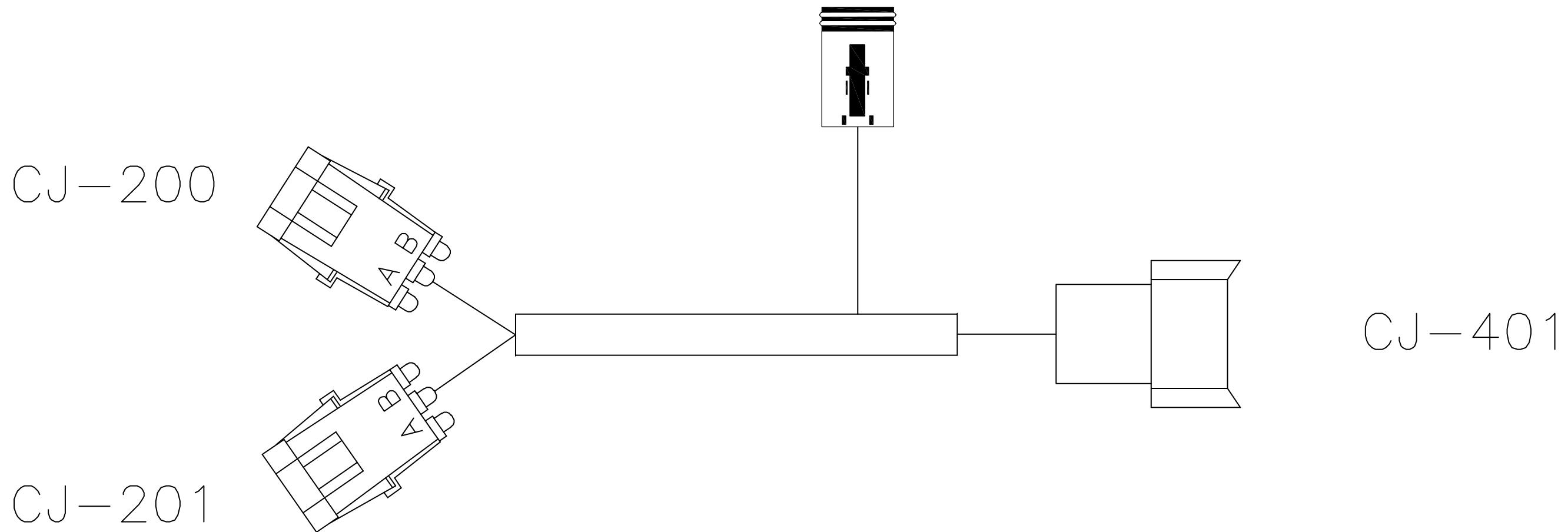
Section - 5

Electrical & Lighting

LED Boom Tip Light Kit (99905289)

99905289 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	Kit	QTY.
1.	51724116	ELECT KIT-S3 BOOM DUAL LED FLOOD LIGHTS		1
1.	77441473	HARNESS-S3 BOOM TIP LED FLD LIGHT JUMPER		1
2.	77040581	FLOODLIGHT-LED 12-36VDC	1	2
3.	72063002	WASHER-FLAT .31 W ANSI B27.2 Z	1	4
4.	77045888	TERM-PKRD WEATHERPACK 14-16GA FEMALE	1	4
5.	77044927	CABLE SEAL-PKRD WP/MP 14 GA GREY	1	4
6.	77044574	CONN-PKRD WEATHERPACK 2 CAV FEMALE/TOWER	1	2
REV. C				

Harness-Boom Tip LED Flood Light (77441473)**Kit Number: 57124116****CP-400**

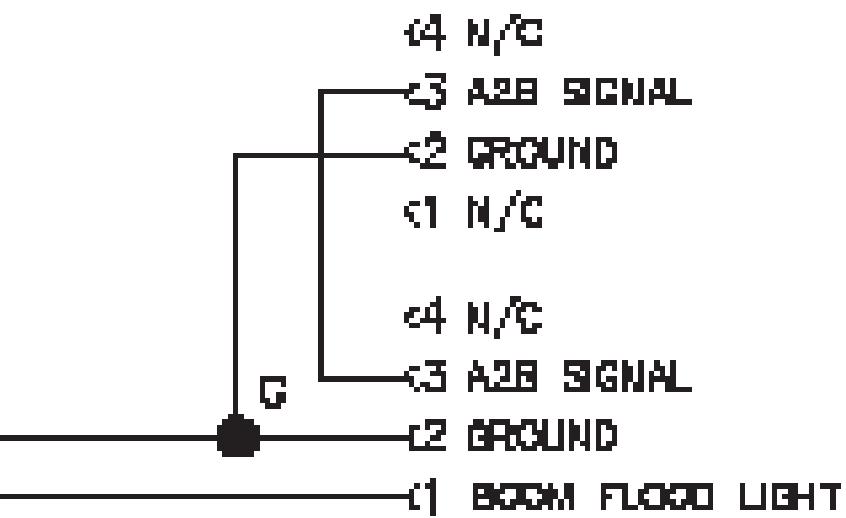
Harness-Boom Tip LED Flood Light (77441473) - continued

CJ-200
TO FLOOD LIGHT

GROUND
BOOM FLOOD LIGHT

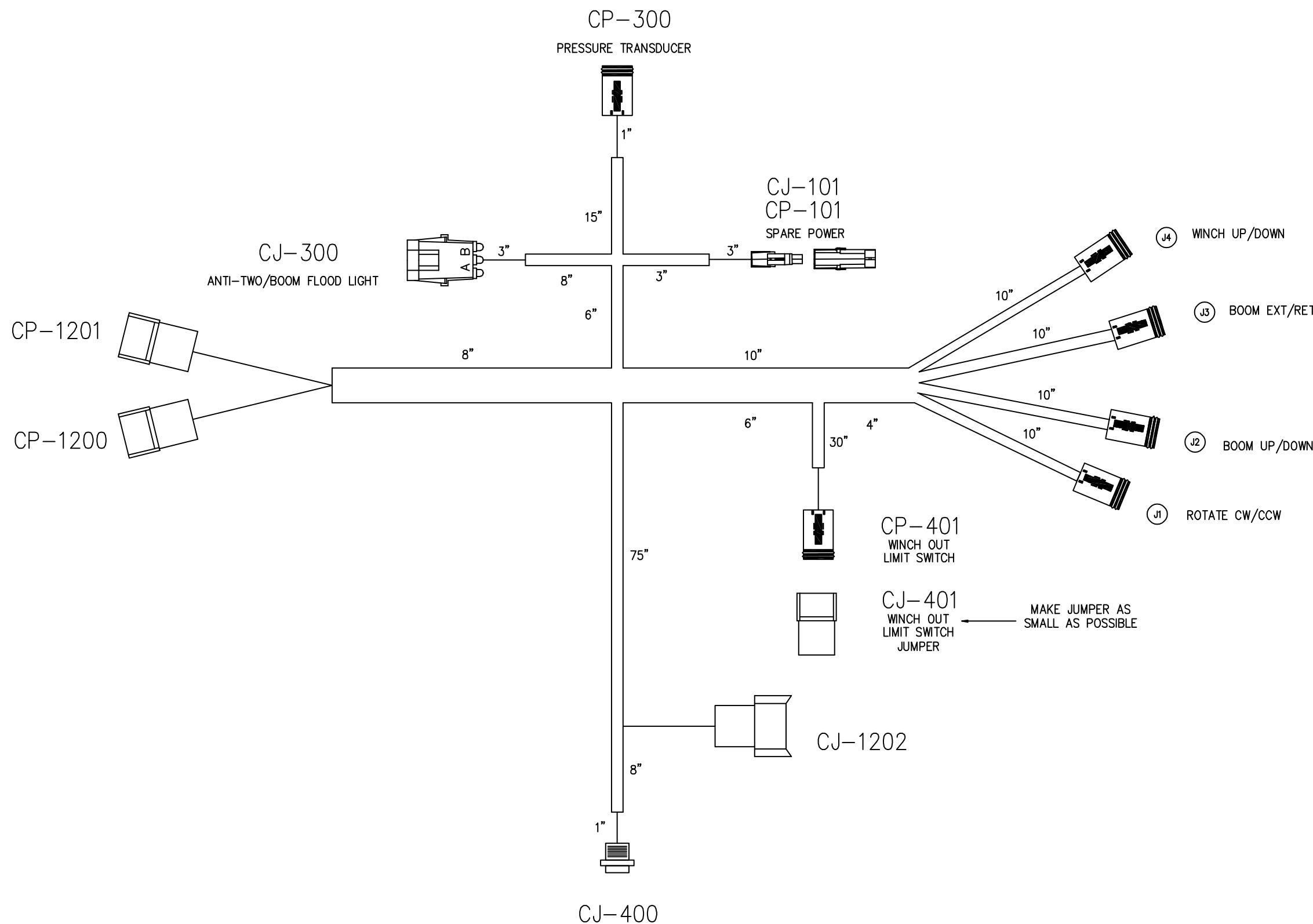
CJ-201
TO FLOOD LIGHT

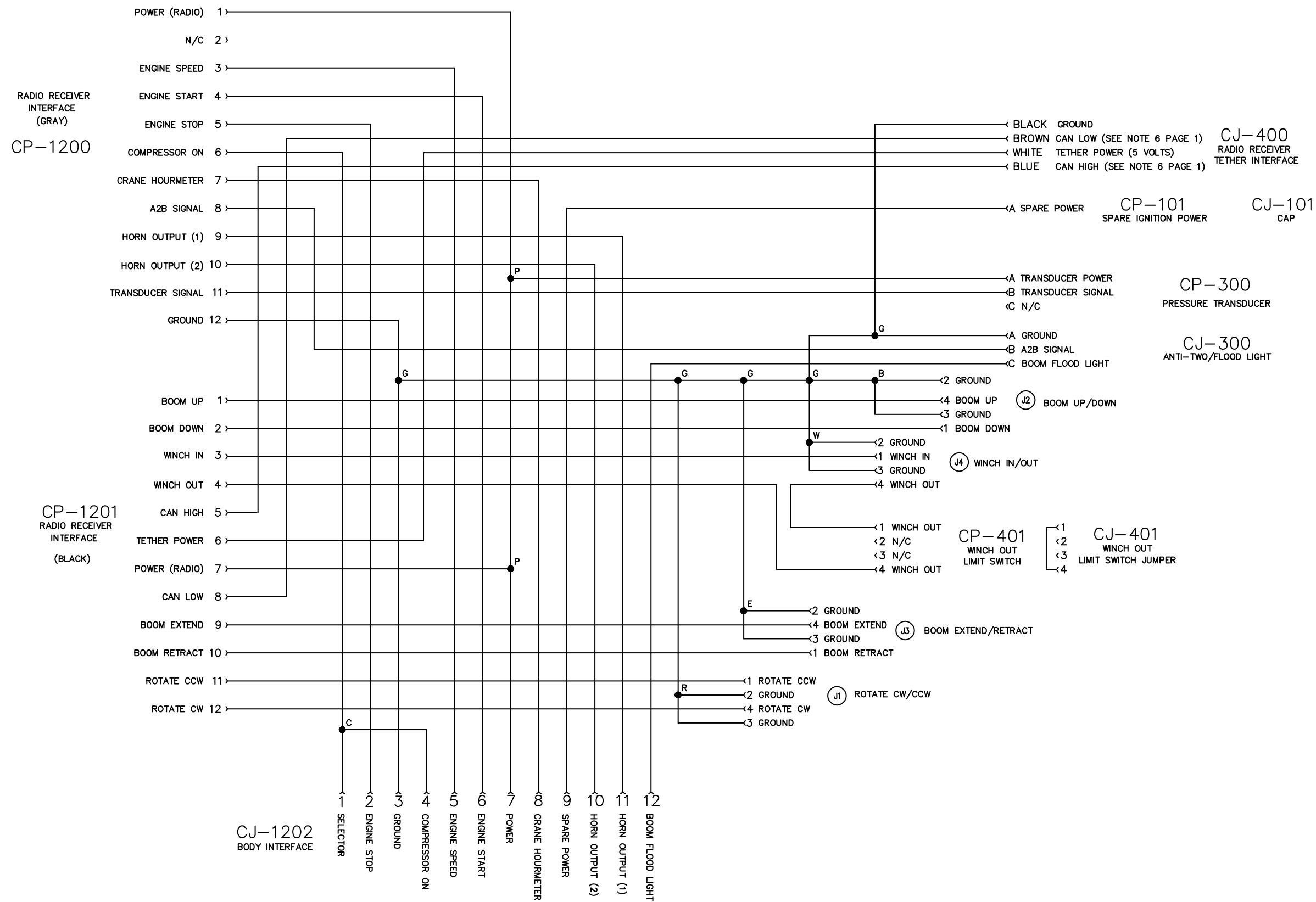
GROUND
BOOM FLOOD LIGHT

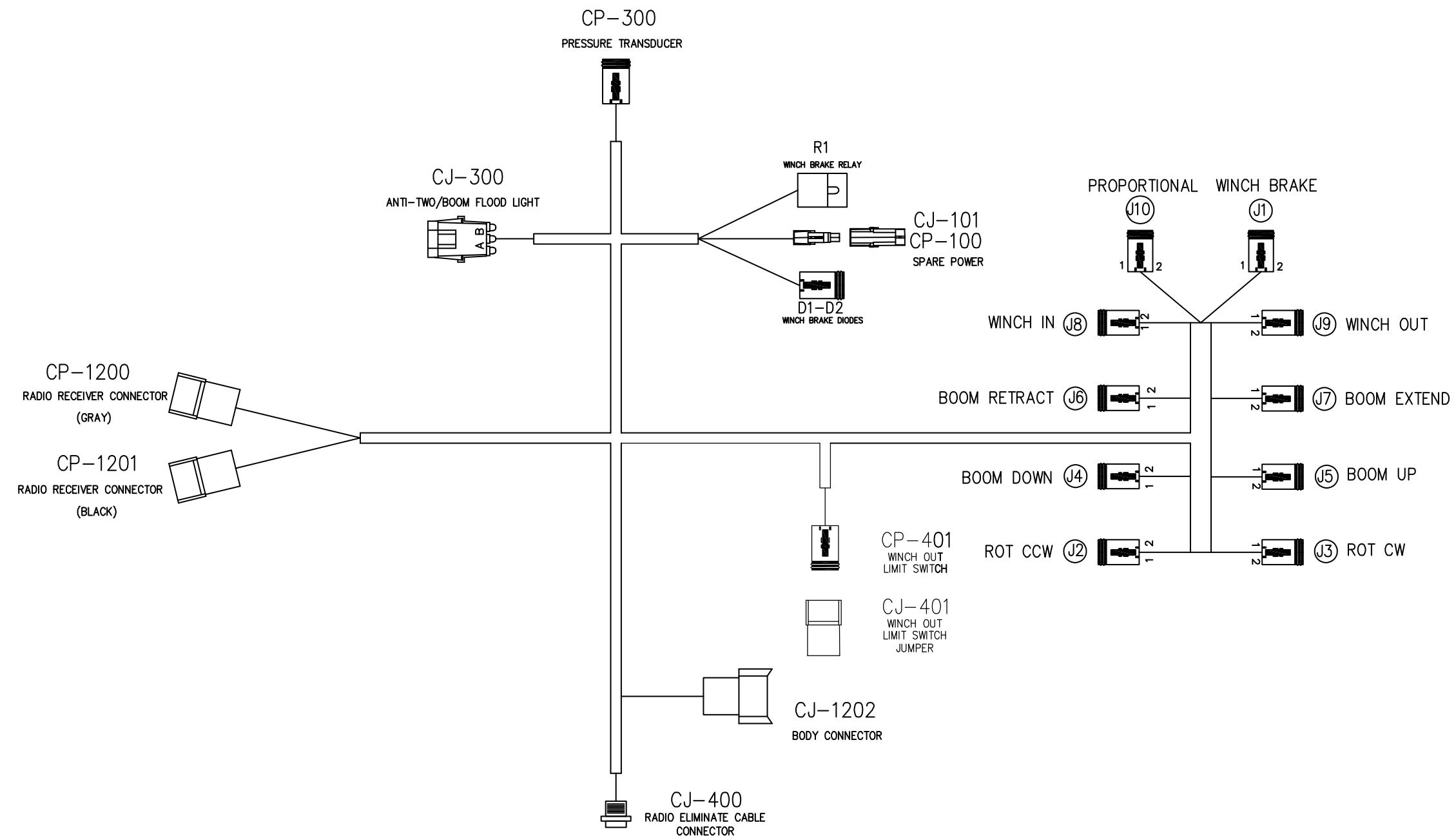


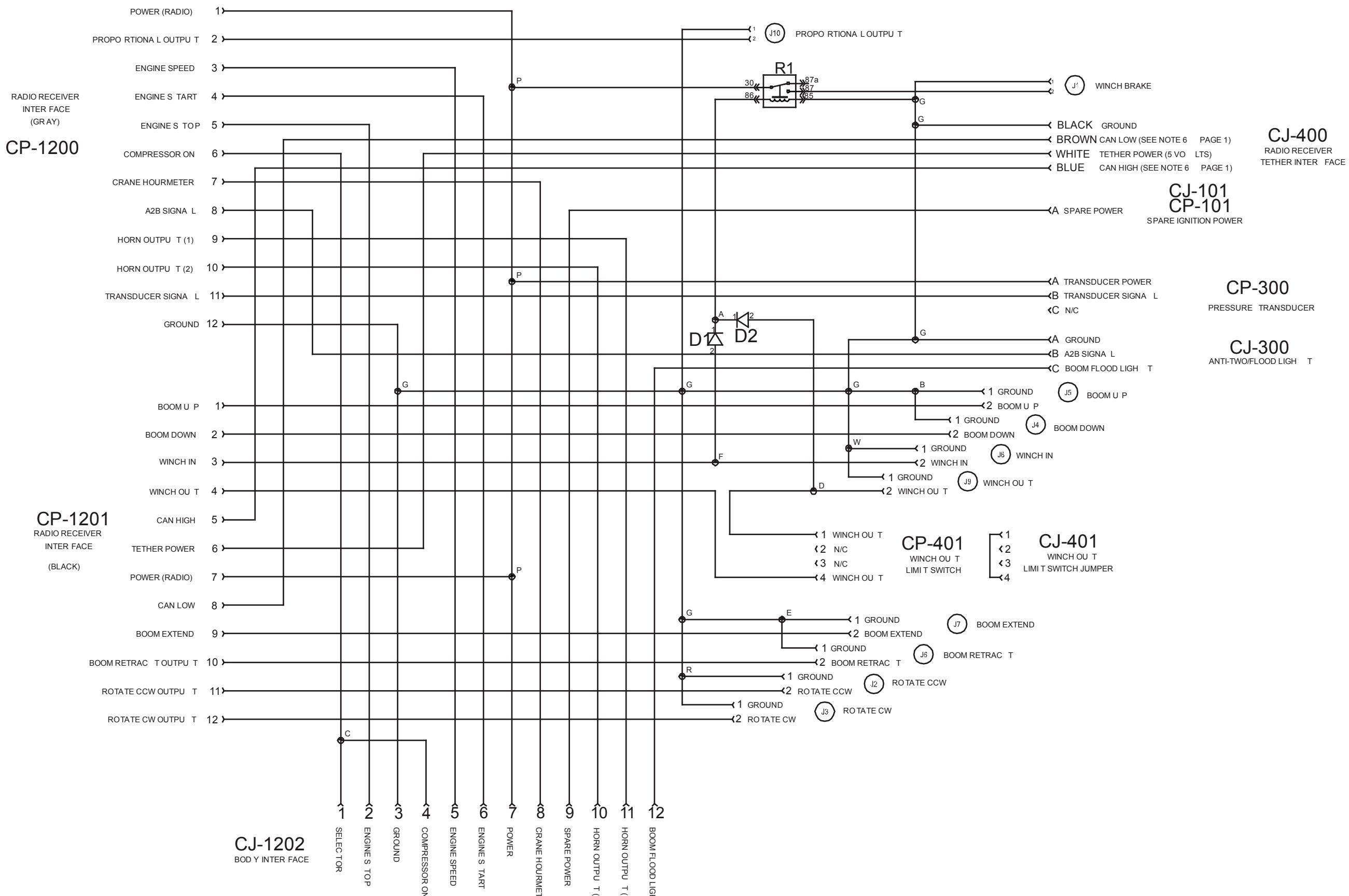
CP-400
TO A2B SWITCH

CJ-401
TO CORD REEL

6000, 7500, 8600 22' - Radio Remote Harness (77441481)

6000, 7500, 8600 22' - Radio Remote Harness (77441481-1)

Radio Remote Harness (77441537)

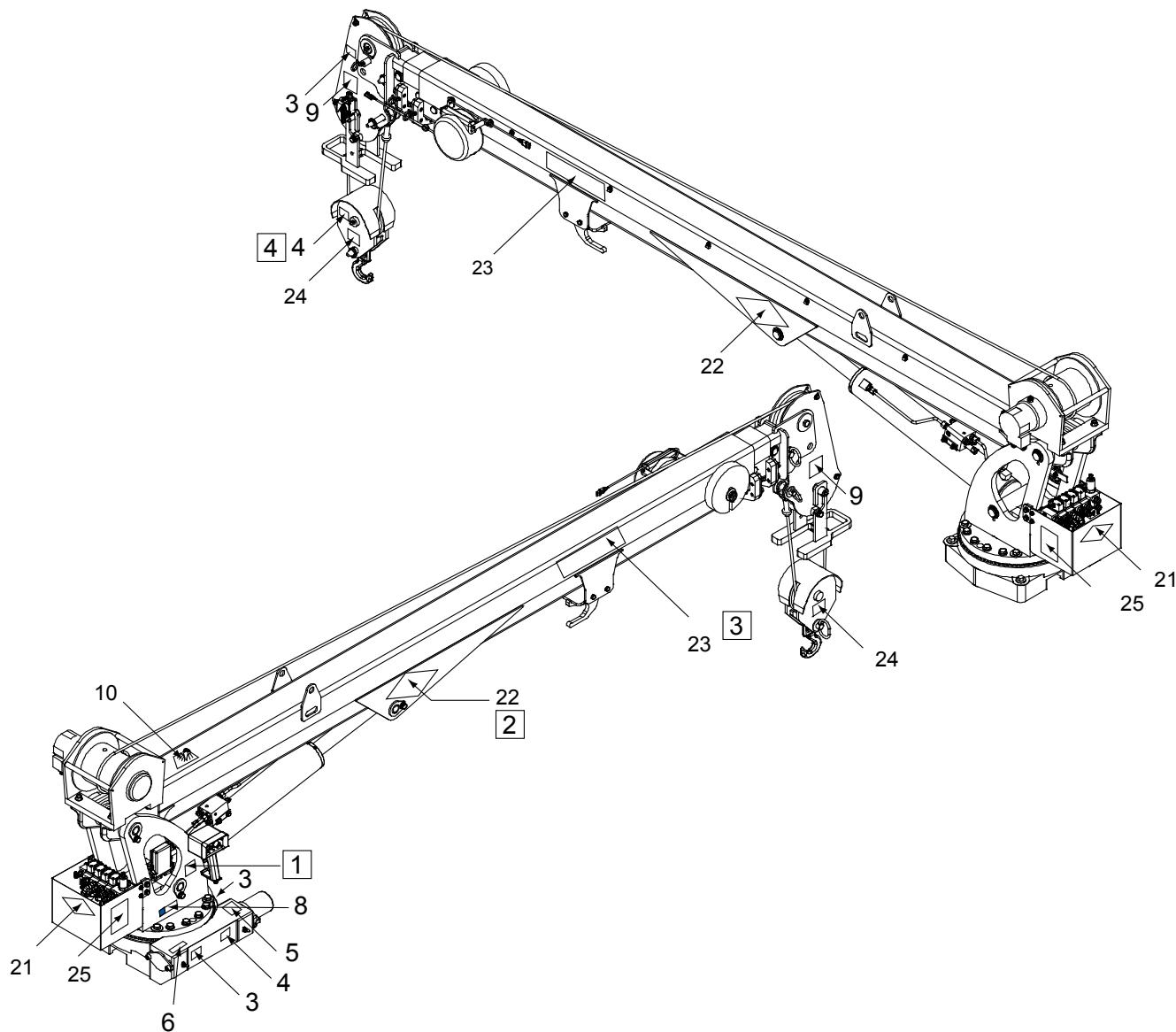
Radio Remote Harness (77441537-1)

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Section - 6

General Information

Decal Placement



DECAL PLACEMENT PARTS LIST

DECAL PLACEMENT (IF NOT SHOWN ON CRANE)

ITEM NO.	PLACEMENT
12, 17, 19, 20, 25.	AT OR NEAR REMOTE HANDLE STORAGE POINT
13.	2 ON REAR OUTRIGGERS, 2 ON SIDE PACK FRONT WALLS
15.	AT OR NEAR DRIVELINE
14, 16.	ON ALL FOUR SIDES OF CARRIER VEHICLE
18.	ON TOP OF HYDRAULIC RESERVOIR

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	KIT QTY.	QTY. ON CRANE
1.	95724101	DECAL KIT - TELE 6000			1
2.	95719348	DECAL KIT - BODY COMMON			1
3.	70391612	DECAL-GREASE WEEKLY (LEFT)	1	3	3
4.	70391613	DECAL-GREASE WEEKLY (RIGHT)	1	2	2
5.	70392524	DECAL-ROTATE CRANE WHILE GREASE	1	1	1
6.	70392399	DECAL-LUBRICATE WORM	1	1	1
8.	70395324	DECAL-ASME/ANSI B30.5-TELESCOP	1	1	1
9.	70395670	DECAL-CAUTION DOWN HAUL WT	1	2	2
10.	71399136	DECAL-ANGLE INDICATOR RH	1	1	1
11.	71399137	DECAL-ANGLE INDICATOR LH	1	1	1
12.	70392213	DECAL-CAUTION DONT WASH/WAX	1	1	1
13.	70392864	DECAL-DANGER OUTRG STAND CLEAR	2	4	4
14.	70392868	DECAL-DANGER CR LOADLINE (TRK)	2	4	4
15.	70392891	DECAL-DANGER DRIVELINE	2	1	1
16.	70394445	DECAL-DANGER ELEC HZD LG TELES	2	4	4
17.	70396613	DECAL-CRANE SAFETY & OPER	2	1	1
18.	70394189	DECAL-MOBIL OIL RESERVOIR	2	1	1
19.	71039134	DECAL-CAUTION OIL LEVEL	2	1	1
20.	70392982	DECAL-SERVICE & REPAIR	2	1	1
21.	70399142	DECAL-DIAMOND IMT 4 X 8 (REFL) 6000-22'	1	1	1
21.	70399195	DECAL-DIAMOND IMT 4.00X8.00 (REFL) 7500 & 8600-22'	1	1	1
22.	70398903	DECAL-DIAMOND IMT 5 x 10 (REFL)	1	2	2
23.	70399339	DECAL-ID 6000-22'	1	1	2REF
23.	70399047	DECAL-ID 7500-22'			2REF
23.	70399048	DECAL-ID 8600-22'			2REF
24.	70399345	DECAL-LOAD BLOCK RATING 4.3TONS			2REF
25.	70399340	DECAL-CP 6000-22'			3REF
25.	70399102	DECAL-CP 7500-22 '			3REF
25.	70399104	DECAL-CP 8600-22 '			3REF

REV. D

Thread Torque Charts - Imperial

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

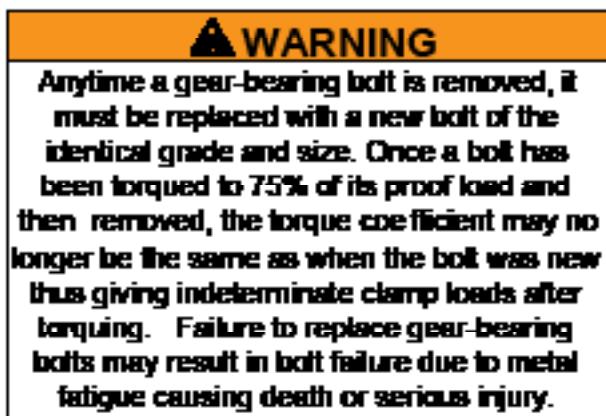
FINE THREAD TORQUE CHART (METRIC)				COURSE THREAD TORQUE CHART (METRIC)					
SIZE	BOLT DIA.	GRADE 5		GRADE 8		GRADE 5		GRADE 8	
		PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)
5/16-24	0.3125	3	2	4	3	5/16-18	0.3125	2	2
3/8-24	0.375	5	4	7	5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

REV. 20210504

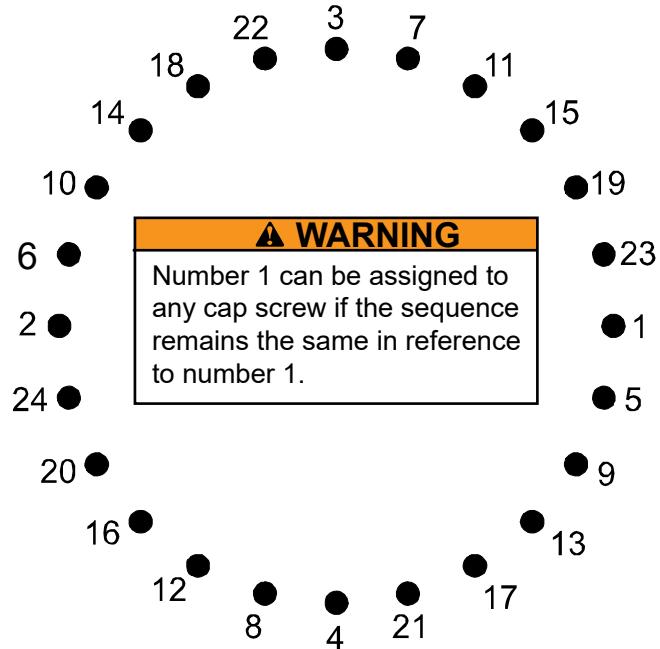
REV. 20210504

NOTES:

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Turntable Bearing Thread Tightening Sequence



TIGHTENING PROCEDURE

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

NOTES: Refer to the turntable bearing thread tightening diagram for proper tightening-torquing sequence of the turntable bearing to the crane base and crane mast. The total quantity of cap screws varies dependent on crane model.

Revisions



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