



IOWA MOLD TOOLING CO., INC.

P.O. Box 189
Garner, IA 50438
Tel: 641.923.3711
Fax: 641.923.2424
www.imt.com

Manual # 99905184

Series III Telescopic Crane 10000 25' Parts & Specifications

Revised 10-20-2021

Copyright © 2021 Iowa Mold Tooling Co., Inc.
All rights reserved

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of Iowa Mold Tooling Co., Inc.

Iowa Mold Tooling Co., Inc. is an Oshkosh Corporation Company



WARNING

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

70490167

Table of Contents

Introduction	1
Equipment Safety.....	2
Specifications	5
Specifications.....	6
Dimension Sketch.....	8
100000 25' - Crane Capacity Load Chart.....	9
Crane References	11
Greasing Instructions	12
Greasing Locations	13
Crane Recommended Spare Parts List	14
Installation Introduction	15
Crane Installation Kit (99905067)	16
Chassis Wiring Harness (77441476 / 99905212)	18
Telescopic Crane Orientation.....	19
Crane Controls.....	19
SIII Telescopic Fully Proportional Radio Remote System.....	20
SIII Telescopic Single Proportional Radio Remote System	21
Parts	23
Parts Information.....	24
Base & Mast Assembly, Truck Mount (99904972)	26
Base & Mast Assembly, Test Stand (99904972)	27
Boom Assembly (99904972).....	28
Fully Proportional Valve Bank Assembly (99904972)	29
Single Proportional Valve Bank Assembly (99904972).....	30
Winch & Anti-Two Block Assembly (99904972)	31
Crane & Winch Assembly (99904972).....	32
Flip Sheave & Snatch Block Assembly (99904972).....	33
Base & Mast Assembly, Test Stand (99904972)	38
Crane Assembly Truck Mount (99904972).....	40
Boom Assembly (99904972).....	42
Fully Proportional Valve Bank Assembly (99904972)	44
Single Proportional Valve Bank Assembly (99904972).....	46
Winch & Anti-Two Block Assembly (99904972)	48
Crane & Winch Assembly (99904972).....	50
Flip Sheave & Snatch Block Assembly (99904972).....	52
Gear Rotator, 6025 / 6625 0.75 Bolts (71056577)	58
Gear Rotator, Primary (71056577).....	62
Lower Cylinder (51722956).....	64
Extension Cylinder (51723605).....	66
Winch Oil Specifications	69
Winch Parts - 6000 LB Line Pull (70570771).....	70
Valve Bank - Single Proportional (73734472)	72
Valve Bank - Fully Proportional (73734727)	74
Connection Block Seal Kit for 73734727 (94399213).....	76
Seal Kit for 73734727 (94399214)	78
HYD A40-60 Series III (99905018)	80
HYD A40-60 Series III (99905018)	81
HYD A40-60 Series III (99905018)	82
Hydraulic Schematic Fully Proportional (99905018)	84

HYD BG4-BG6 Series III SP (99906029)	88
HYD BG4-BG6 Series III SP (99906029)	89
HYD BG4-BG6 Series III SP (99906029)	90
Plumbing Diagram, Single Proportional (99906029).....	92
Electrical & Lighting	95
LED Boom Tip Light Kit (99905289)	96
Harness-Boom Tip LED Flood Light (77441473).....	98
Harness-Boom Tip LED Flood Light (77441473) - continued	99
Radio Remote Harness, Fully Proportional (77441481)	100
Radio Remote Harness, Fully Proportional (77441481-1).....	101
Radio Remote Harness, Single Proportional (77441537).....	102
Radio Remote Harness, Single Proportional (77441537-1).....	103
Harness Transducer Scaler (77441584).....	104
Harnesses (51726346 & 51726347).....	106
General Information	107
Decal Placement (99905087)	108
Thread Torque Charts	110
Turntable Bearing Thread Tightening Sequence	112

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

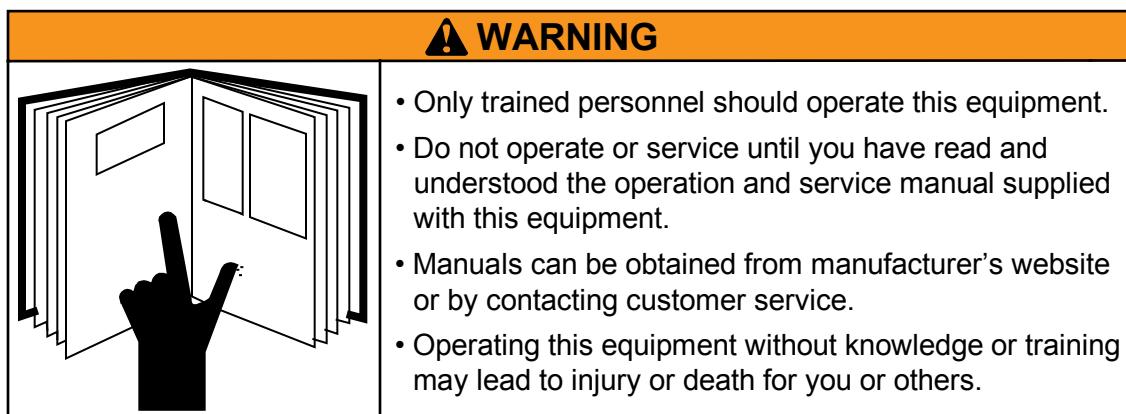
Prior to using any of the equipment installed on or incorporated in the IMT Crane Body Mechanics Truck, you must:

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

NOTE

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

CAUTION

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

WARNING

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

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 regulations can be found here: 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	
	10000 25"
CRANE RATING (Crane rating (ft-lb) is the rated load (lb) multiplied by the respective distance (ft) from centerline of rotation with all extensions retracted and lower boom in horizontal position.)	72,000 ft-lb (10.0 tm)
HORIZONTAL REACH - FLIP SHEAVE UP (From centerline of rotation)	24'-9" (7.5 m)
HORIZONTAL REACH - FLIP SHEAVE DOWN (From centerline of rotation)	23' 10" (7.3 m)
HYDRAULIC EXTENSIONS (2)	75" (191 cm) 75" (191 cm)
LIFTING HEIGHT (From base of crane)	26'-0" (7.9 m)
CRANE WEIGHT	2,290 lb (1059 kg)
CRANE STORAGE HEIGHT	41.2" (104.7 cm)
MOUNTING SPACE REQUIRED (Crane base)	20" x 21" (50.8 cm x 53.3 cm)
OPTIMUM PUMP CAPACITY	10 -12 U.S. gpm (37.9 - 45.4 L/min)
SYSTEM OPERATING PRESSURE	3200 psi (221 bar)
CENTER OF GRAVITY	
Horizontal from centerline of rotation..	43.8" (111.3 cm)
Vertical from bottom of crane base	21.38" (54.3 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)

PERFORMANCE CHARACTERISTICS		
	SPECIFICATIONS	TIME / SPEED
ROTATION	400°	30 s
LOWER BOOM ELEVATION	-10° TO 80°	12 s
EXTENSION CYLINDERS (2)	60" & 57"	33 s
WINCH SPEED (single line)	102" & 102" (259 cm & 259 cm)	60 fpm (2nd wrap) (15.2 m/min.)

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 or load-holding check 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 3,200 PSI (221 Bar). It is equipped with a four-section, stack-type, electric, remote control valve with an RF remote-control system with a 40' (12.1m) 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 5,500 lb (2,495 kg) planetary winch is powered using a high-torque hydraulic motor. The lifting capacity of the winch is 5,500 lb (2,495 kg) one-part line. Maximum two-part line capacity is based on the maximum crane capacity. The winch is equipped with 100 ft (30.5 m) of 7/16"" (1.1 cm) 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

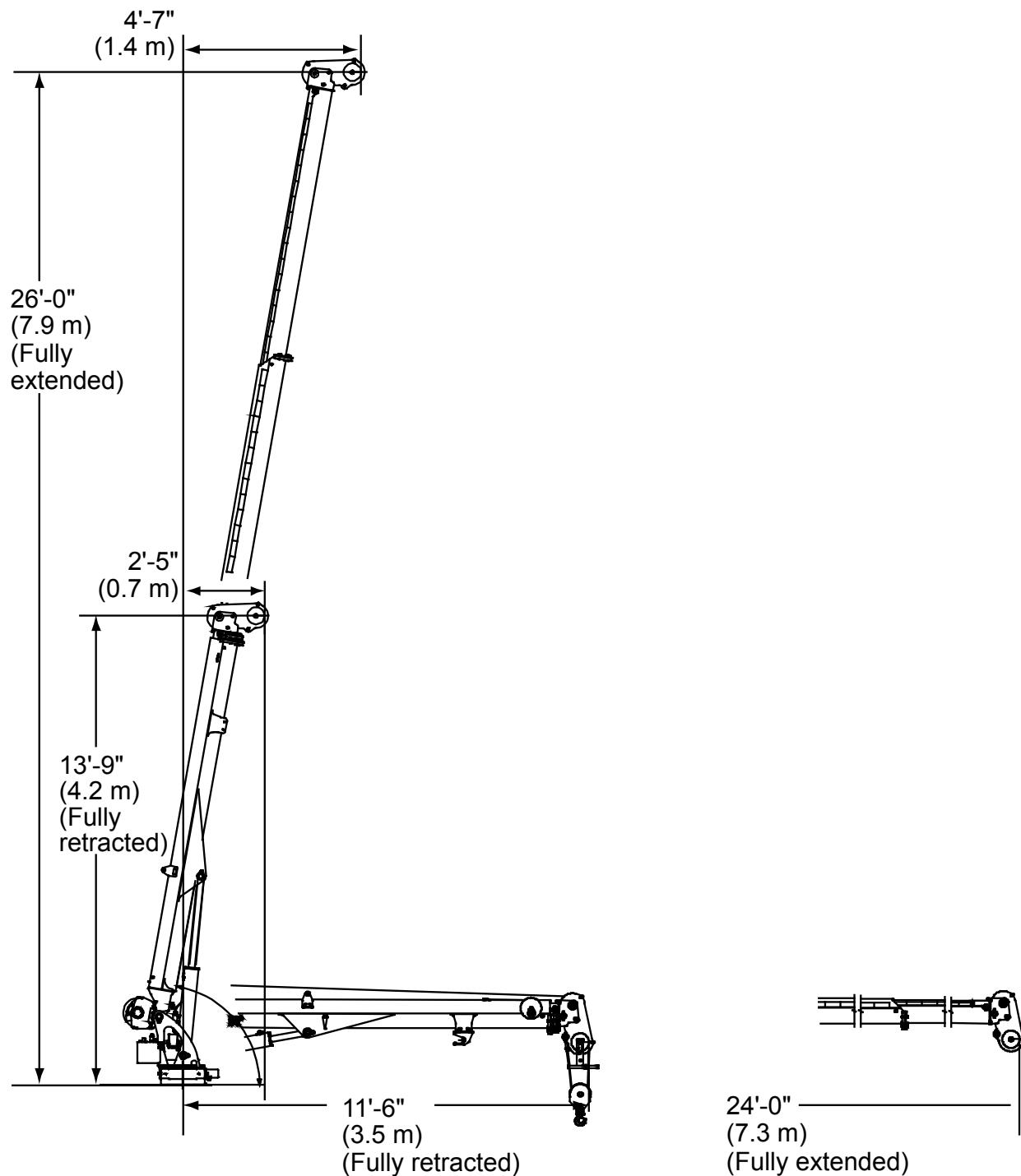
10000 25'MINIMUM CHASSIS SPECIFICATIONS	
CHASSIS STYLE	CONVENTIONAL CAB
BODY STYLE	DOMINATOR™ II (minimum)
CAB-TO-AXLE (1)	84-120" (213-305 cm)
RESISTANCE TO BENDING MOMENT	1.200.000in-lb
FRAME SECTION MODULUS- MINIMUM	14.2 CU.INCHES (232 cc)
RATED MOMENT	72.000 ft-lb (9,954 kg-m)
GROSS VEHICLE WEIGHT RATING (SEE NOTE 2)	26,000 lb (11,793 kg) minimum

NOTES:

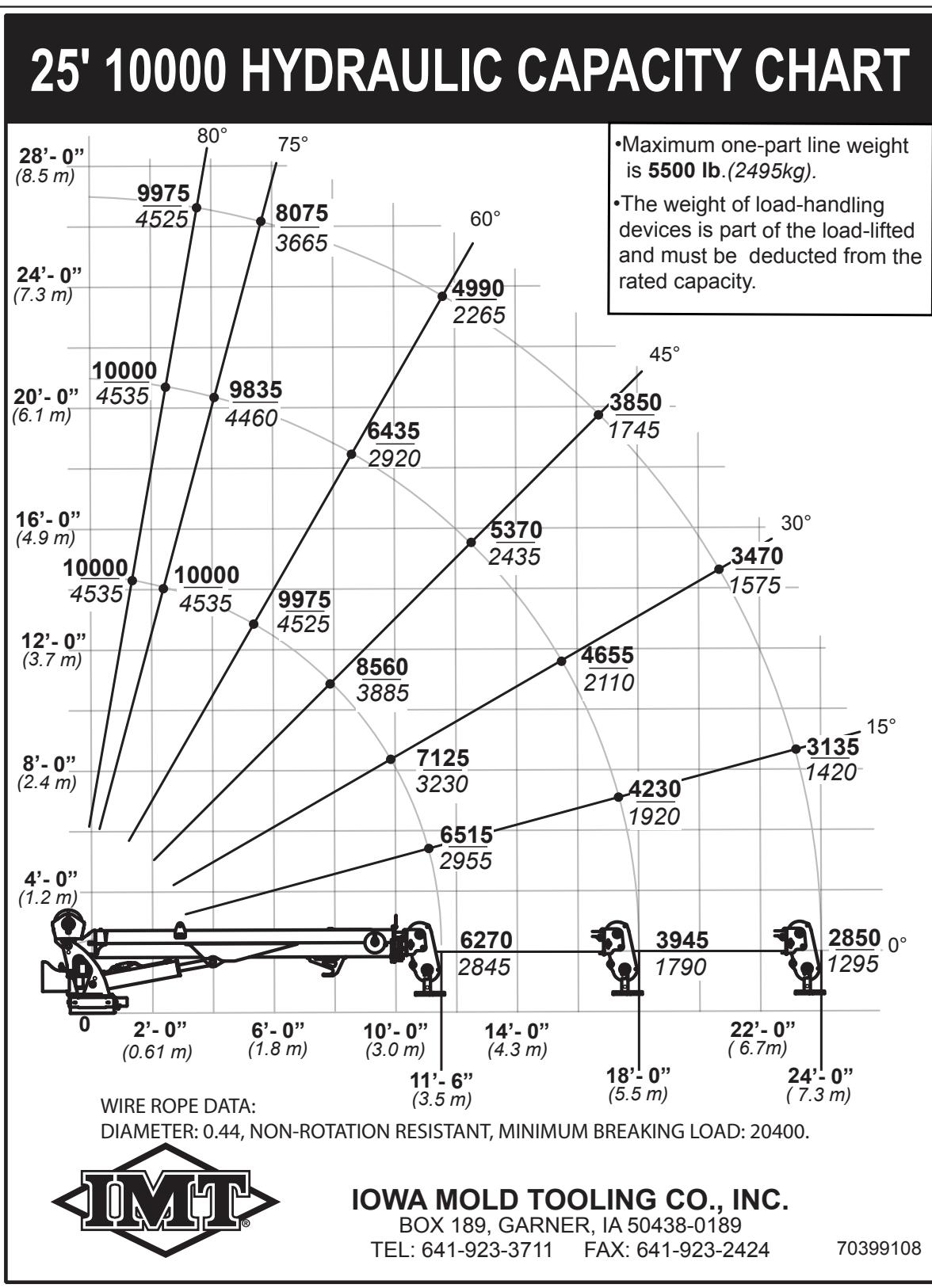
1. THE CAB TO AXLE (CA) DIMENSION VARIES BASED ON THE CONFIGURATION OF THE BODY, CRANE, AND AUXILIARY EQUIPMENT INCLUDING WELDER DECKS.
2. MAKE SURE THE CA IS FREE AND CLEAR FROM OBSTRUCTIONS EVERYWHERE EXCEPT BETWEEN THE FRAME RAILS.
3. THE GROSS VEHICLE WEIGHT RATING (GVW) IS A MINIMUM GUIDELINE.
4. CONTACT IMT IF YOU HAVE QUESTIONS REGARDING YOUR PARTICULAR INSTALLATION. IN ADDITION TO THESE SPECIFICATIONS, HEAVY DUTY ELECTRICAL AND COOLING SYSTEMS ARE REQUIRED.
5. IT IS RECOMMENDED THAT THE VEHICLE BE EQUIPPED WITH AN ENGINE TACHOMETER, AUXILIARY BRAKE LOCK, AND POWER STEERING. WEIGHT DISTRIBUTION.
6. CALCULATIONS ARE REQUIRED TO DETERMINE FINAL AXLE LOADING. ALL CHASSIS, CRANE, AND BODY COMBINATIONS, MUST BE STABILITY-TESTED PER ANSI B30.5 REQUIREMENTS.

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

Dimension Sketch



100000 25' - Crane Capacity Load Chart



This page left intentionally blank

Section - 4

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 zerk must be greased on a weekly basis during normal operating conditions. Under severe operating conditions the zerk 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 zerk.

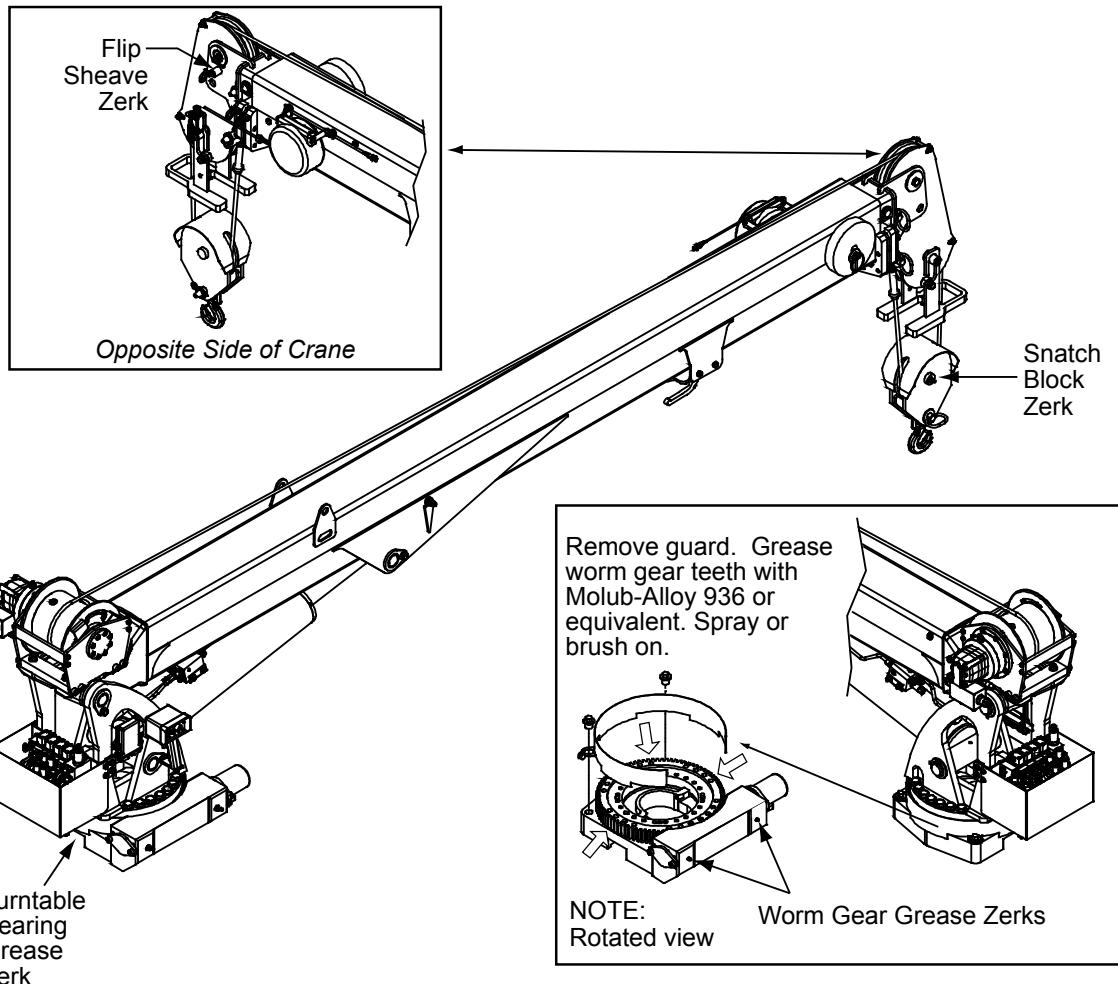


Crane worm gear bearing teeth must be lubricated weekly with lubriplate gear shield extra-heavy or equivalent, applied with a grease gun, caulk gun or brush. Cover all teeth with grease and leave no exposed metal surfaces showing.

**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
<ul style="list-style-type: none"> Base - Turntable Bearing Grease Zerk Flip Sheave Pin Snatch Block Pin Worm Gear Bearings Grease Zerks (*Rotate Crane While Greasing) Lower Sheave Zerk 	<ul style="list-style-type: none"> Extreme Pressure Lithium Grease Such As: <ul style="list-style-type: none"> Shell Alvania 2ep, Shell Retinax "A", Mobilgrease Xhp 462, Cenex MI 365, Xtreme True-Flo Mp Ep2 Lithium Grease Or Equivalent. 	Apply With Hand Or Pneumatic Pressure Grease Gun.	Weekly
Rotation Worm Gear Teeth	Gearmate 1000, Super Heavy	Brush Or Pump On	Weekly

Crane Recommended Spare Parts List

BASE & MAST		
PART NO.	DESCRIPTION	QTY
73051919	MOTOR-HYD 101-2638-009	1
72601949	CAP SCR .50-13X 1.25 SH ZINC	2
72601629	CAP SCR .75-10X 4.00 HH GR8 Z	4
72060177	CAP SCR .62-11X 3.00 HH GR8 Z	16
WEAR PADS (BOOM ASSEMBLY)		
60030336	WEAR PAD-RC 0.19 X 6.00 X 6.00	1
60030337	WEAR PAD-RND 0.19X 2.00X 1.00X 1.00	2
60030421	WEAR PAD-RC 0.25X 6.00X 6.00	1
60030422	WEAR PAD-RND SIII EXT CYL	1
60030423	WEAR PAD-RC 0.25X 6.00X 2.25	4
60030428	WEAR PAD-RND 0.25X 2.00X .75X .44	4
60030425	WEAR PAD-RND 0.44X 1.25X .50X .50	2
ANTI-TWO-BLOCK ASSEMBLY		
77041863	LIMIT SWITCH	1
RIGGING COMPONENTS		
70190008	PIN-TYPE AB 2.00 X 7.63 SS	1
70190007	PIN-TYPE AB 2.00 X 11.88 SS	2
70735099	HOOK-SWVL POS LOCK BBRG 5TON (Effective Jan 2018)	A/R
70580232	WIRE ROPE ASM- GALV.44(6X25)X100ft XIPS	1
60030255	SHEAVE- 9.00 POLYMER	1
LOWER CYLINDER (51727888)		
94399133	SEAL KIT	1
51723932 CYLINDER (Part of 51727882 Ext. Cylinder Assembly)		
94399160	SEAL KIT	1
51733930 CYLINDER (Part of 51727882 Ext. Cylinder Assembly)		
94399162	SEAL KIT	1
WINCH (70570771)		
94744147	SEAL KIT FOR 70570771	1
71411143	BALL BEARING	1
71734007	VALVE-CBAL BRADEN - CART FOR 70570771	1
VALVE BANK (73734727)		
94399213	SEAL KIT, CONNECTION BLOCK	1
94399214	SEAL KIT, VALVE SECTIONS	1
77040598	COIL-PSL 12VDC DEUTSCH	4
VALVE BANK (73734472)		
90744198	KIT-COIL REPAIR FOR 73540375 12V	8
77041930	SOLENOID TUBE USED ON 73540375	8

Installation Introduction

GENERAL

This section contains instructions for the installation of your crane. Prior to installing the crane and hydraulic components, make sure that the chassis is ready to receive the crane (see the Installation Section of the IMT *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 designed body is designed to take full advantage of the standard reservoir placement. This reservoir is installed in the cargo area of the body. Before attempting to install the crane, the body must be installed on the chassis.

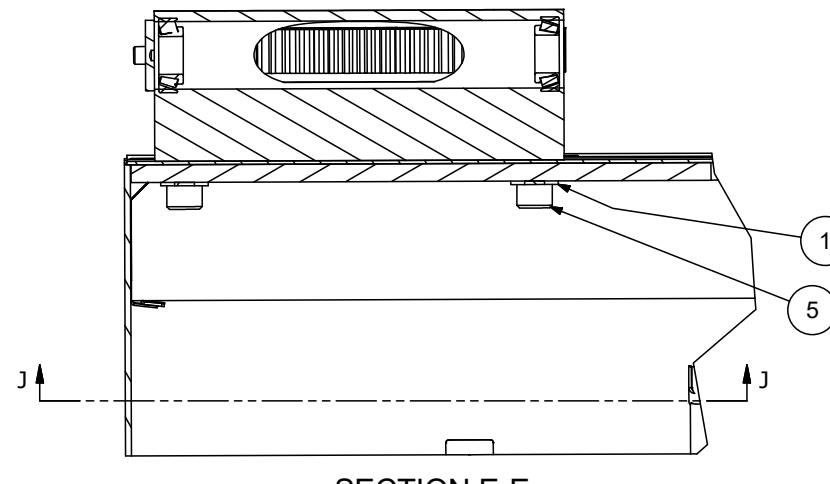
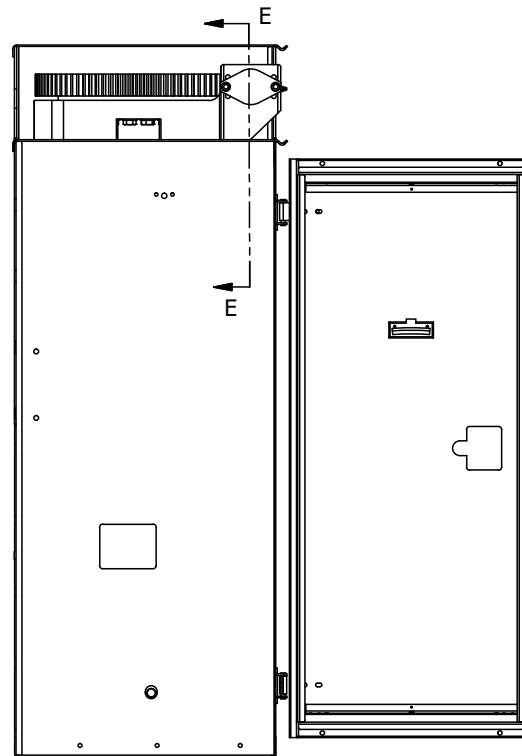
Crane Installation Kit (99905067)

NOTE:

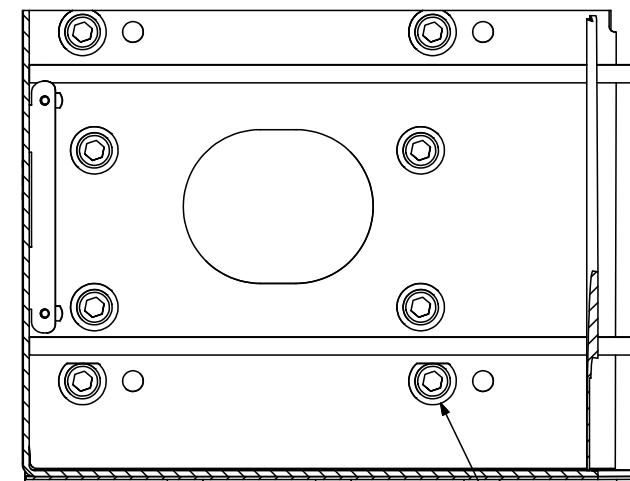
THE 2.5" BOLTS SUPPLIED ARE PART OF THE CRANE INSTALLATION KIT. DETERMINE THE CRANE BOX TOP PLATE THICKNESS PRIOR TO MOUNTING. IF DIFFERENT LENGTH BOLTS ARE REQUIRED, THEY MUST BE 1-8, GRADE 8, ZINC COATED, OF PROPER LENGTH. FAILURE TO USE PROPER LENGTH BOLTS MAY CAUSE THE BOLTS UNDER THE CRANE SWING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

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

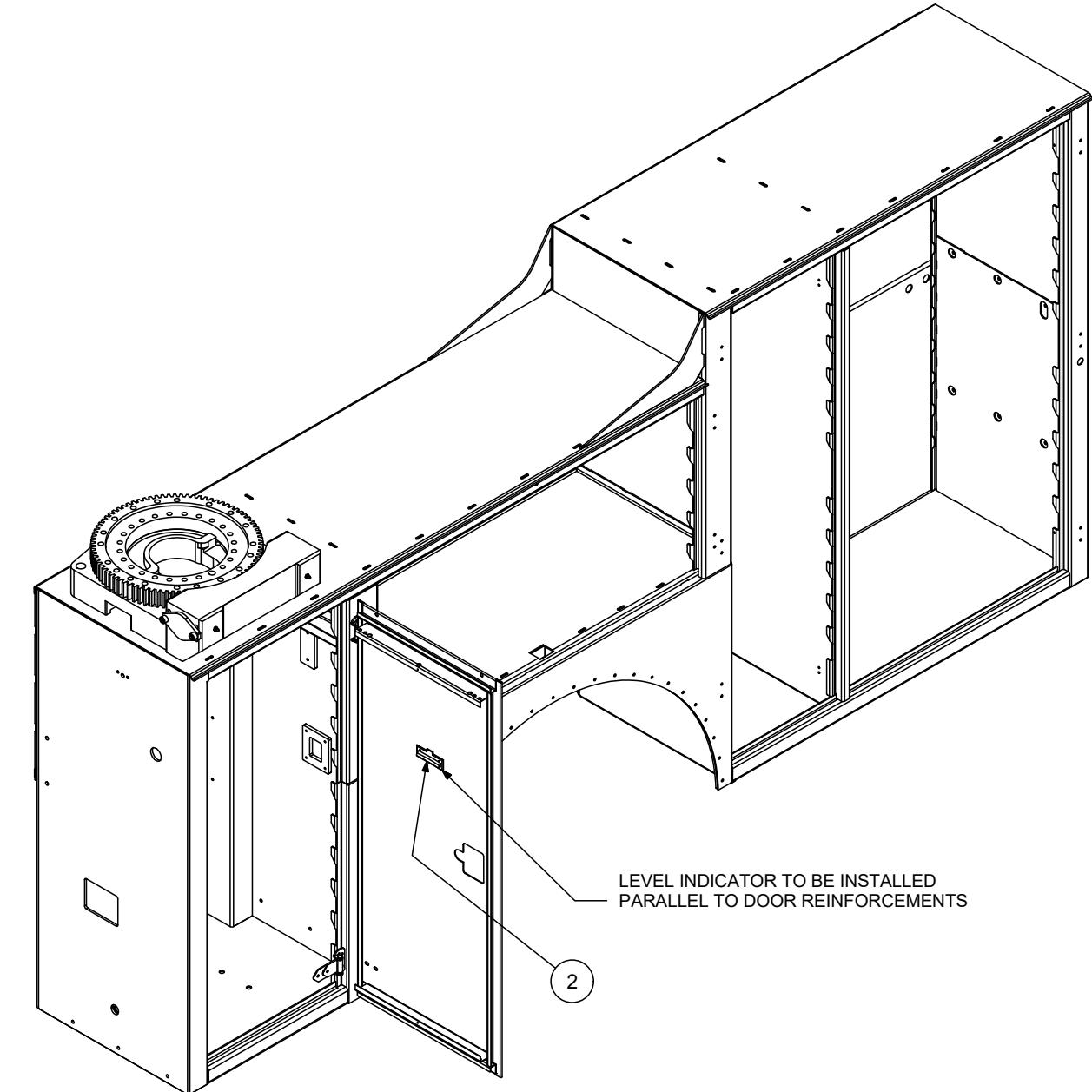


SECTION E-E
SCALE 0.13 : 1



SECTION J-J
SCALE 0.26 : 1

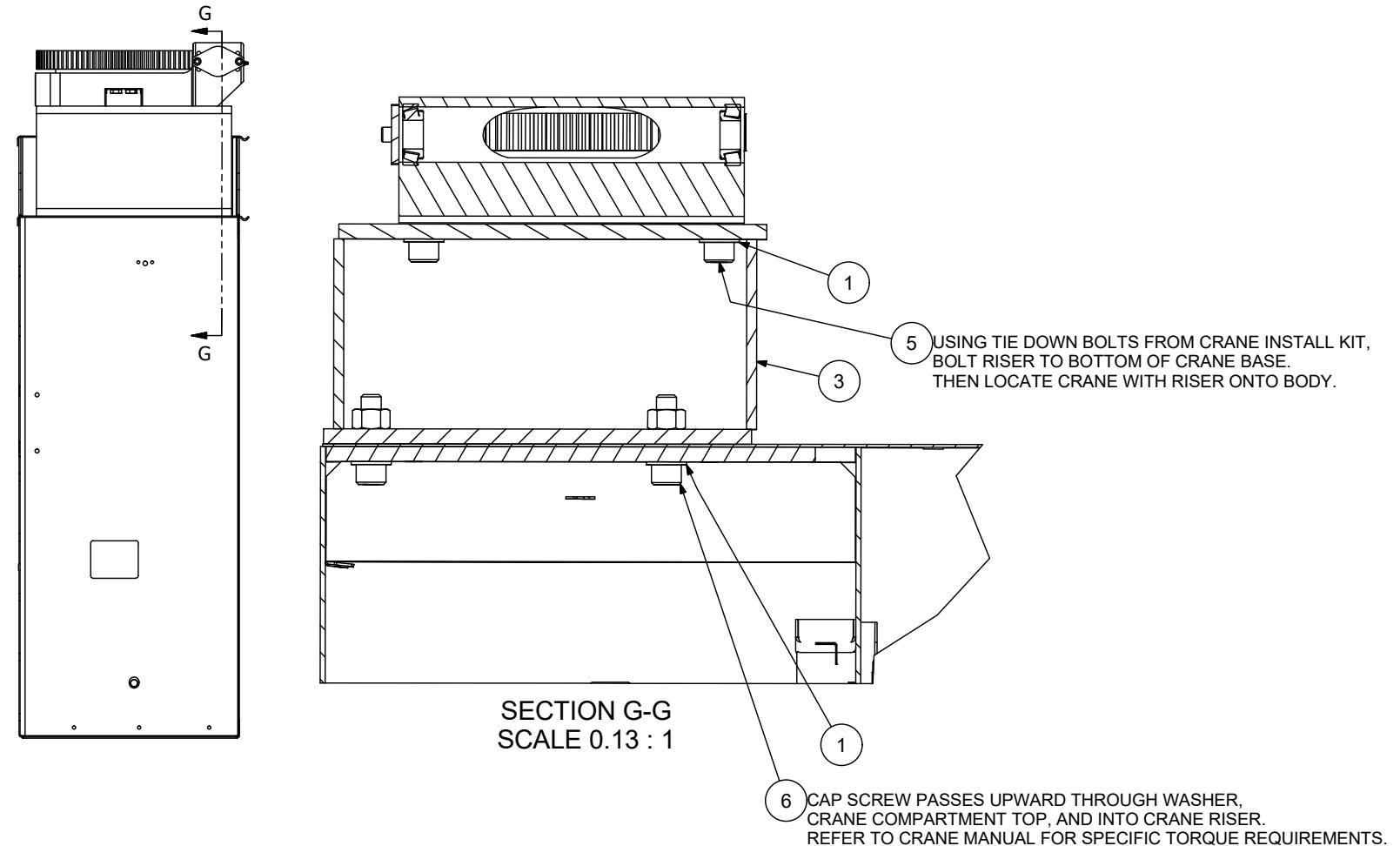
7 USE CUT WASHERS WHERE NEEDED
TO CLEAR CRANE COMPARTMENT STRUCTURE.



99905067-1

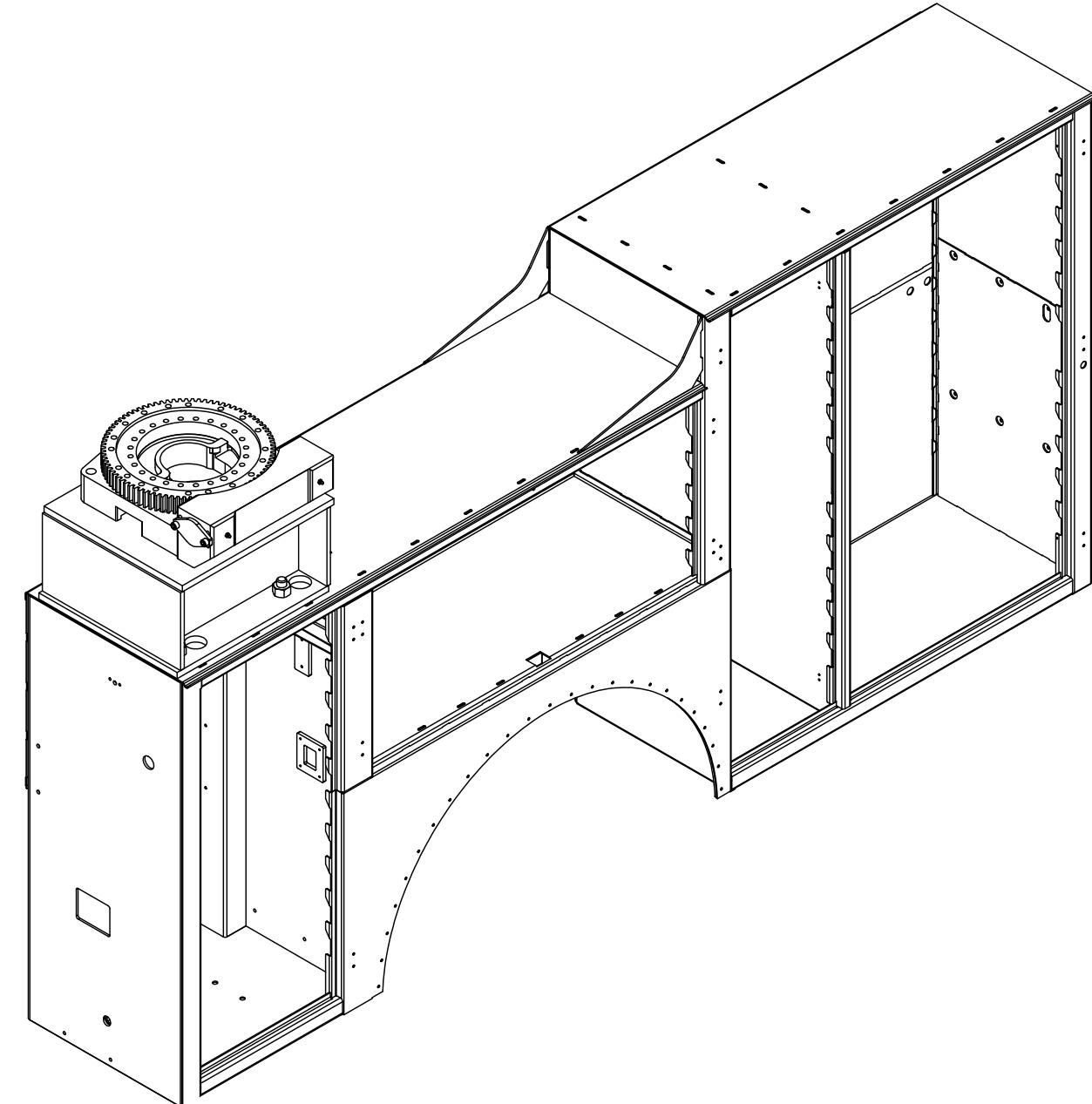
NOTE:

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.



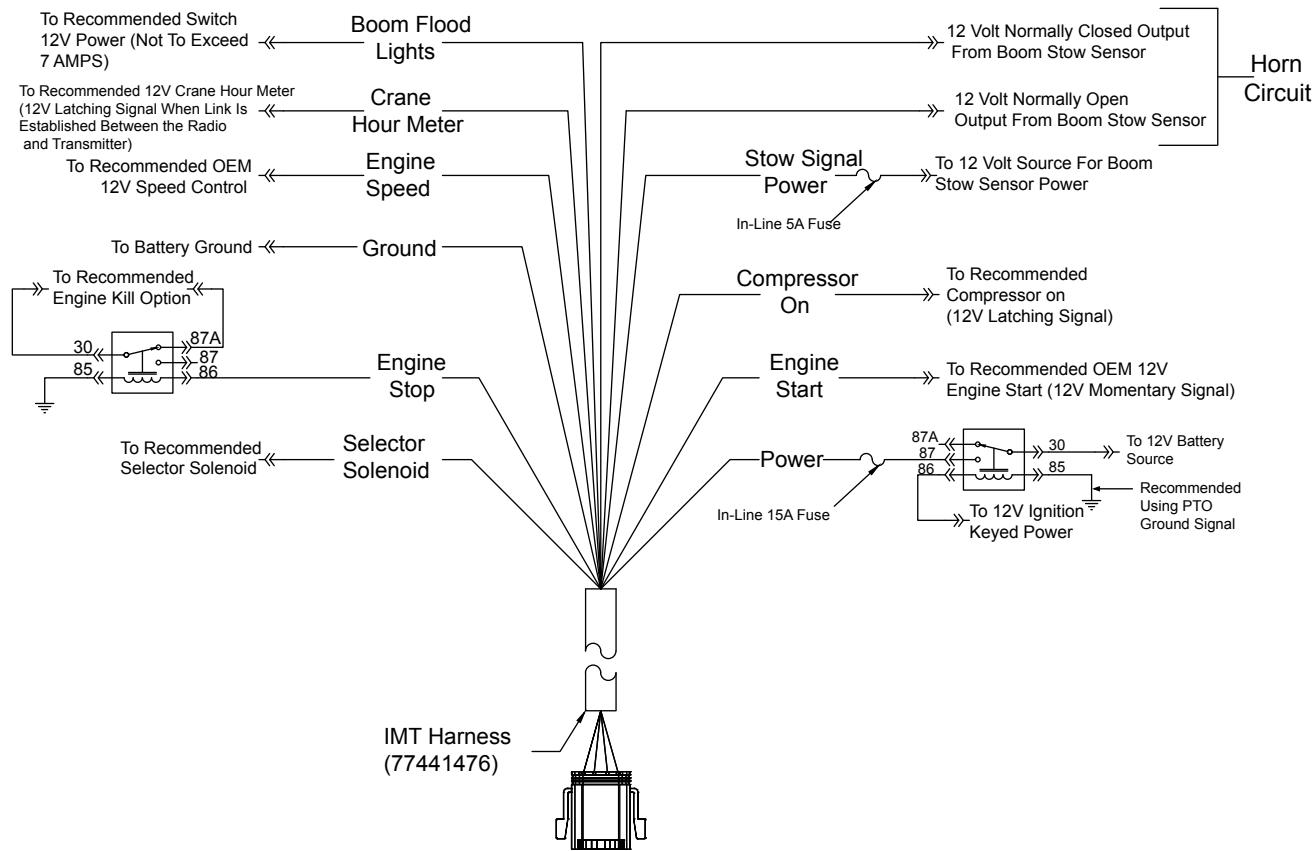
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	72063066	WASHER 1.00 FLAT HI STR	AR
2.	72042097	LEVEL INDICATOR LEVEL	1
3.	52720014	RISER-6025 CRANE BASE 11IN DOM 2	REF
4.	93713669	INSTL-KIT DS3 -DOM 2 8600S-10000	1
5.	72602151	CAP SCR 1.00- 8X 2.50 SH PLAIN	AR
6.	72602152	CAP SCR 1.00- 8X 3.50 SH PLAIN	AR
7.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

REV. H CN963

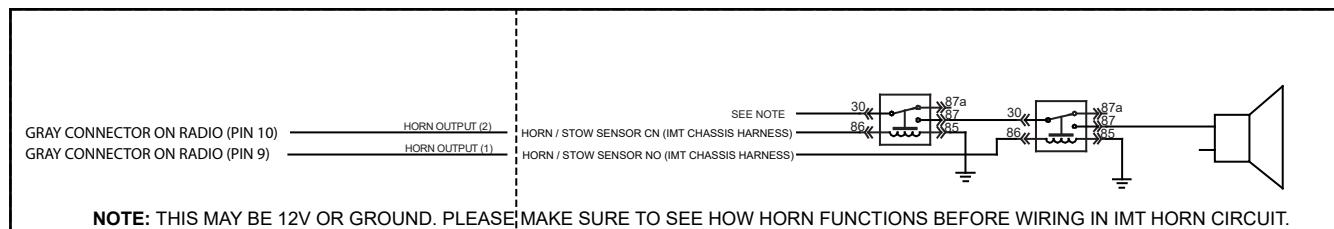


Chassis Wiring Harness (77441476 / 99905212)

ADDITIONAL INSTALLATION COMPONENTS, NON-IMT BODY (93713748)

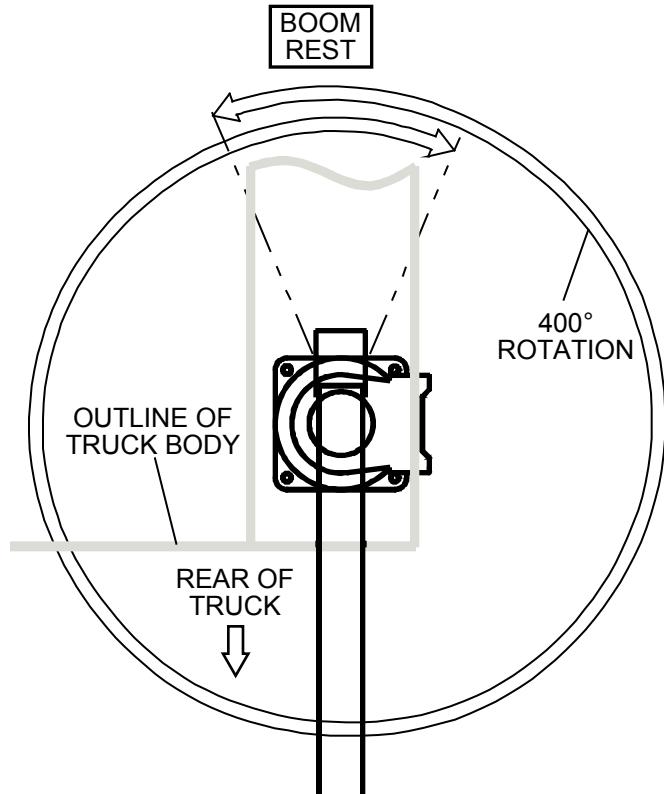


HORN CIRCUIT



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.



Crane Controls

IMT telescopic cranes are controlled by radio remote controls. See the *Telescopic Fully Proportional Crane Radio Remote System* manual, IMT part number, 99906209, or *Series III Telescopic Single Proportional Radio Remote System*, IMT part number, 99906210, for complete details.



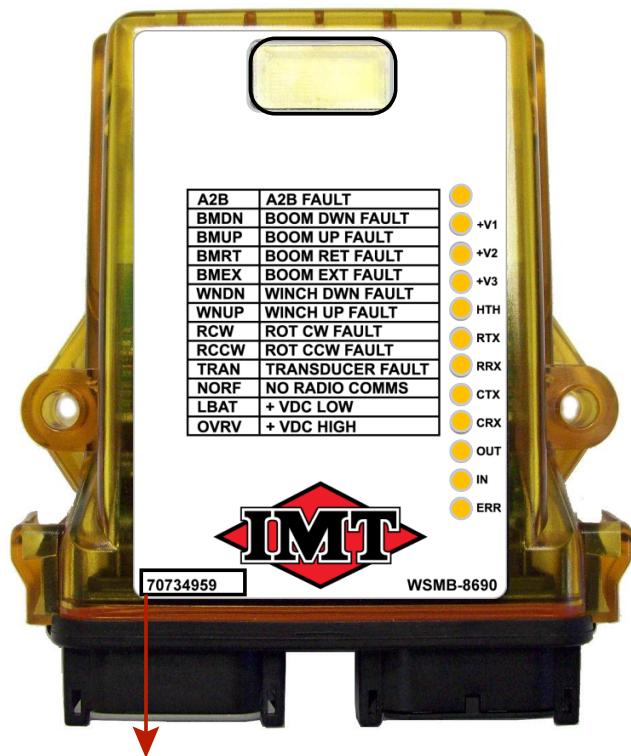
Viewed looking up from crane box. The pressure, return, and rotation hoses are wrapped in the 60350105 hose sleeve.

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

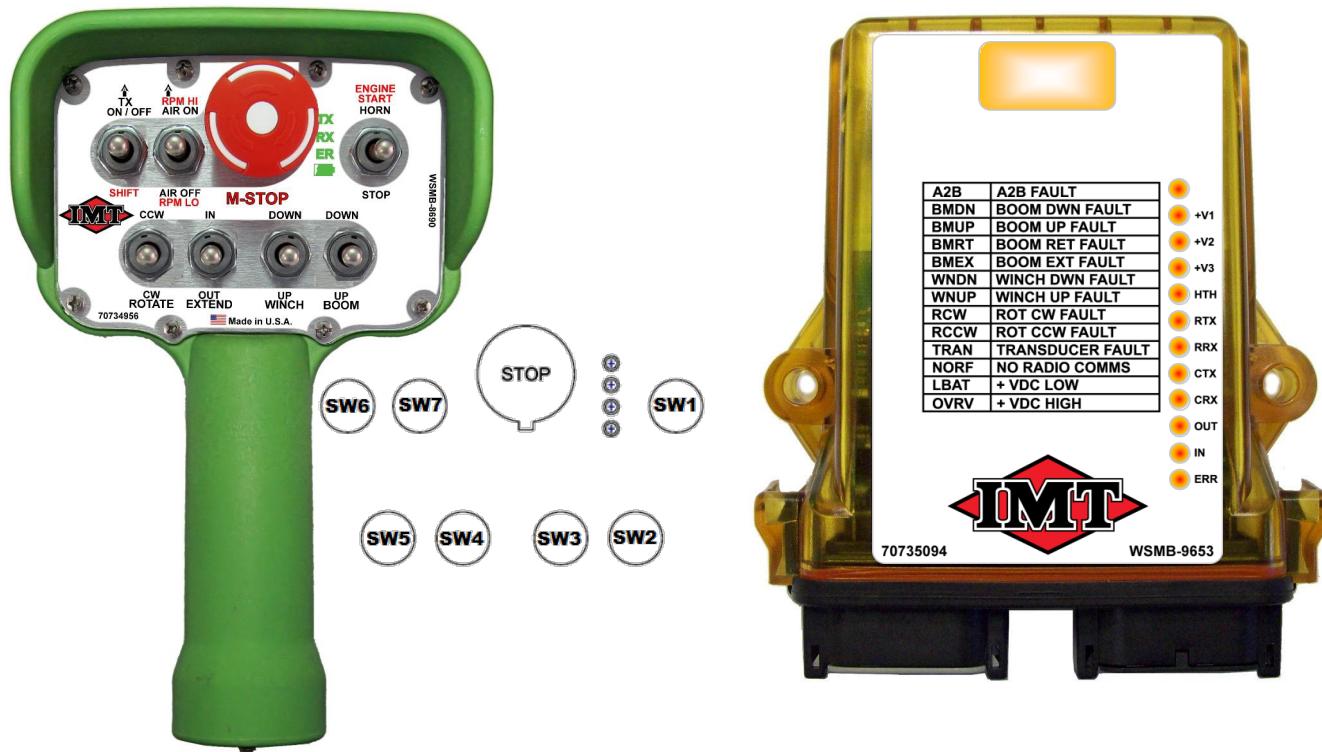


RECEIVER

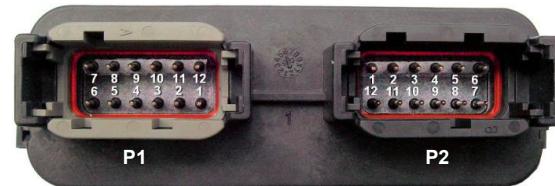
QTY.	PART NO.	DESCRIPTION
1	70734957	TRANSM-RAD REM TELE S3 FP NON-G FHSS 240
1	70734958	TRANSM-RAD REM TELE S3 FP GATED FHSS 241
1	70734960	RECEIVER-RAD REM TELE S3 FP FHSS 2400

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	70735093	TRANSM-RAD REM TELE S3 SP & EM FHSS 2400
1	70735094	RECEIVER-RAD REM TELE S3 SP FHSS 2400

This page left intentionally blank

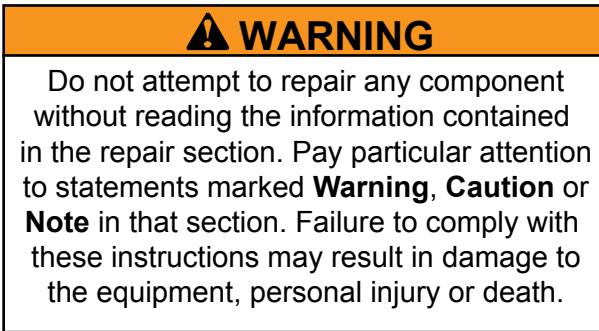
Section - 4

Parts

Parts Information

GENERAL

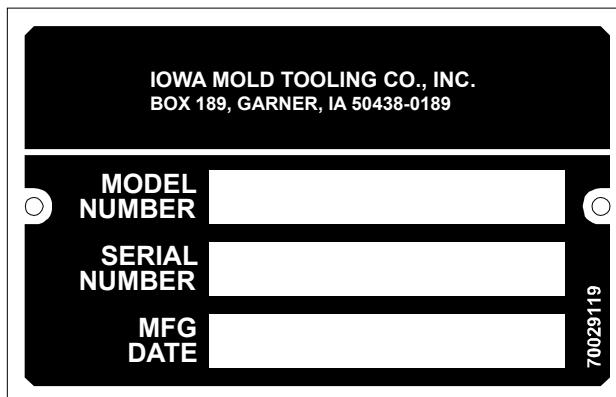
This section contains the exploded parts drawings and accompanying parts lists for the assemblies used on this crane. For optional equipment such as winches and remote controls, refer to the appropriate options manual.



CRANE IDENTIFICATION

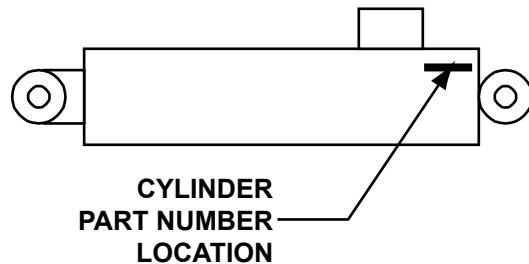
Every IMT crane has an identification placard (see figure below). This placard is attached to the inner boom, mast, or crane base. When ordering parts, communicating warranty information, or referring to the unit in correspondence, always include the serial number and model numbers. Address all inquiries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

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



CYLINDER IDENTIFICATION

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



WELDMENT IDENTIFICATION

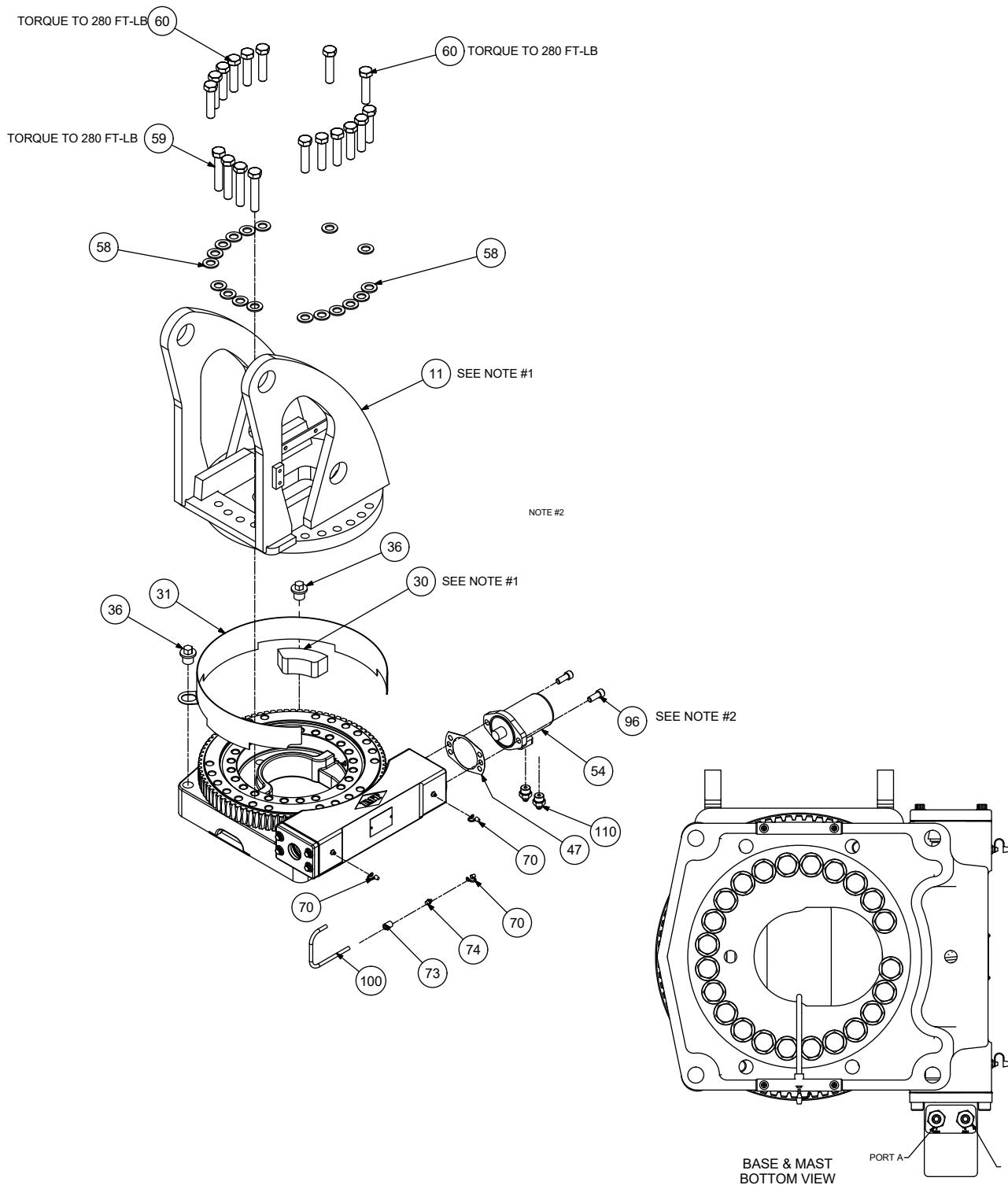
Each of the major weldments, base, mast, inner boom, outer boom, extension boom and stabilizer weldments bear a stamped part number. Any time a major weldment is replaced, you must specify the complete part number as stamped on the weldment. The locations of the part numbers are shown in the Crane Reference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

ORDERING REPAIR PARTS

When ordering replacement parts:

1. Give the model number of the unit.
2. Give the serial number of the unit.
3. Specify the complete part number. When ordering cylinder parts, or one of the main weldments, always give the stamped part number.
4. Give a complete description of the part
5. Specify the quantity required.

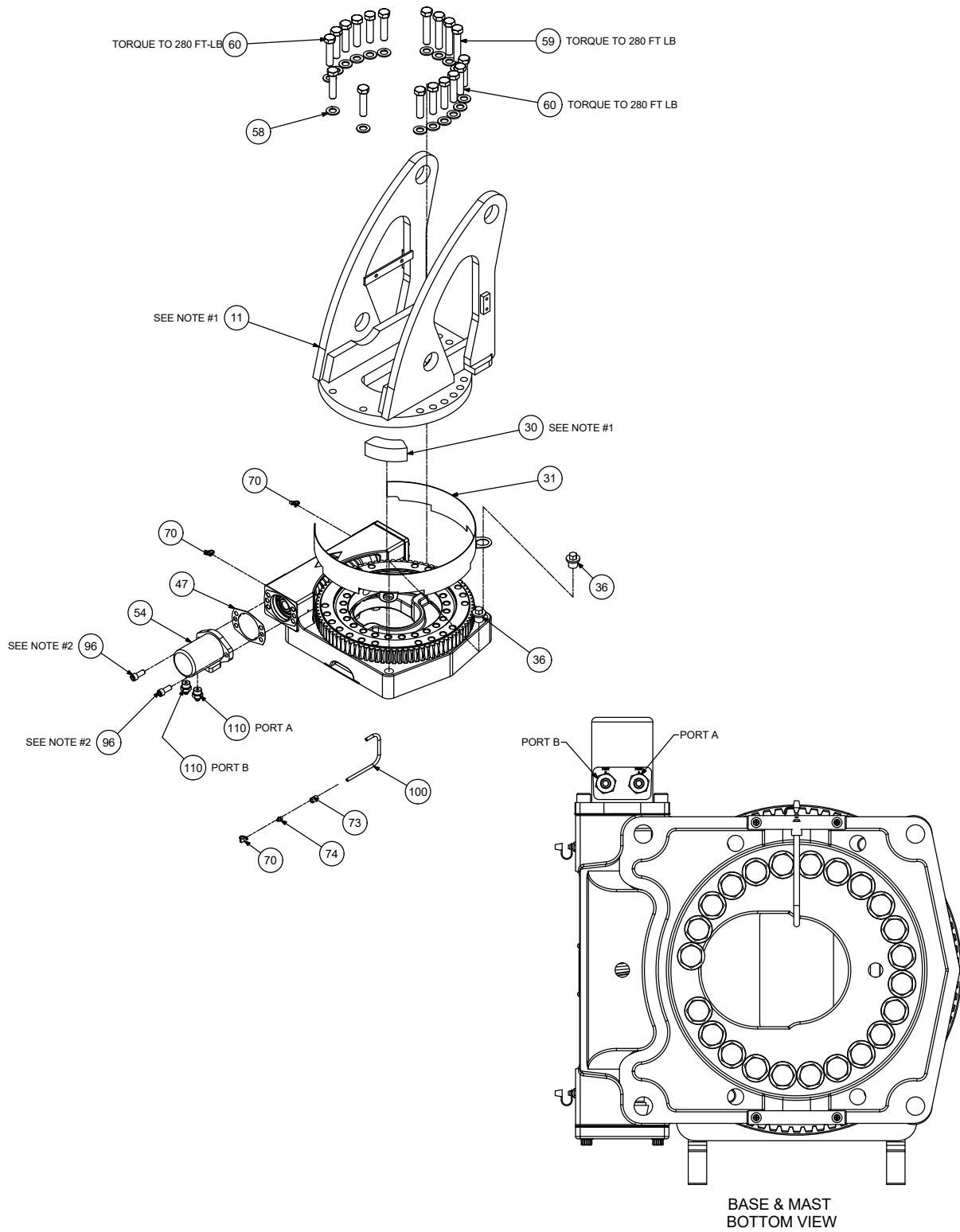
Base & Mast Assembly, Truck Mount (99904972)



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 TRUCK.

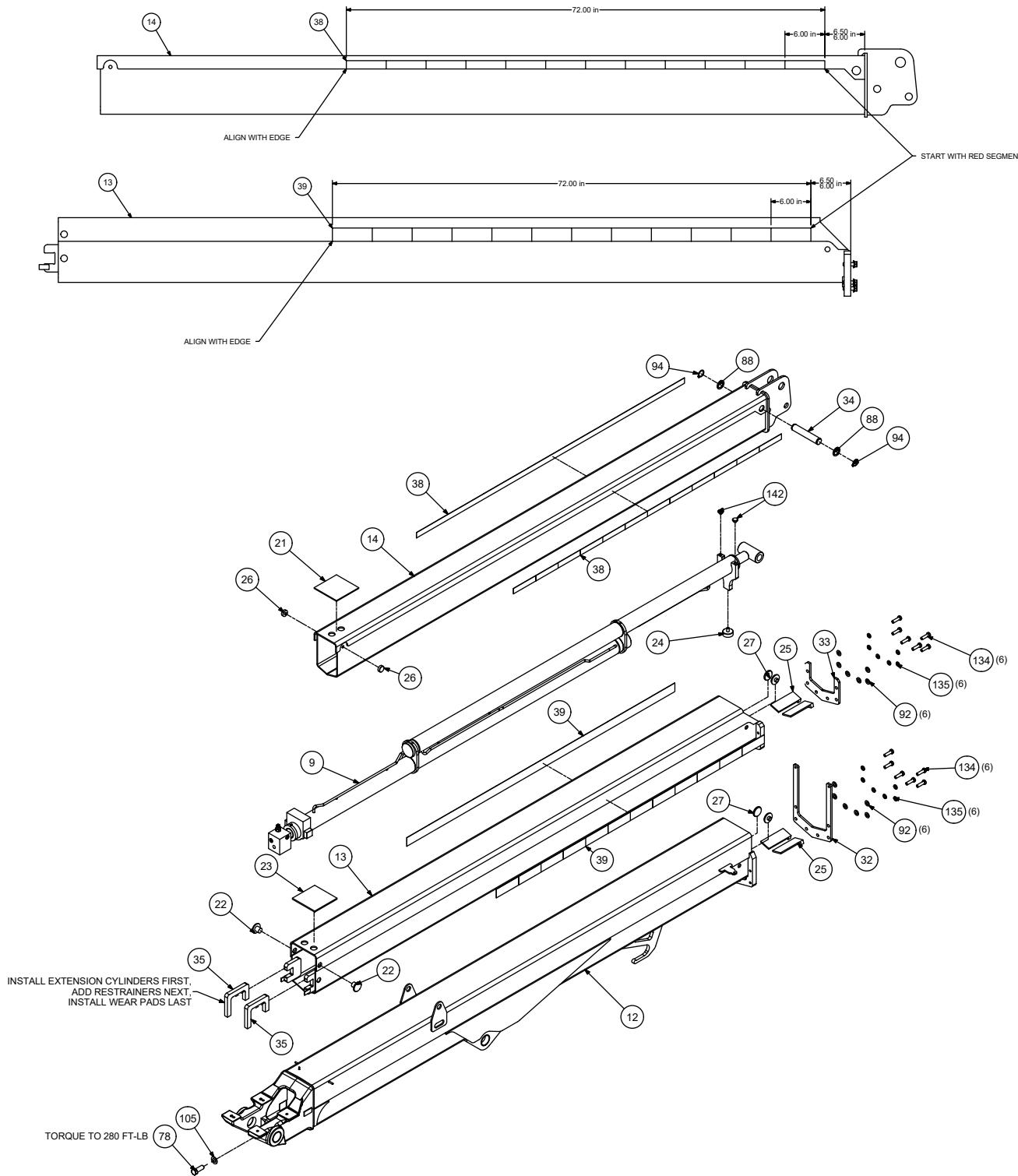
Base & Mast Assembly, Test Stand (99904972)



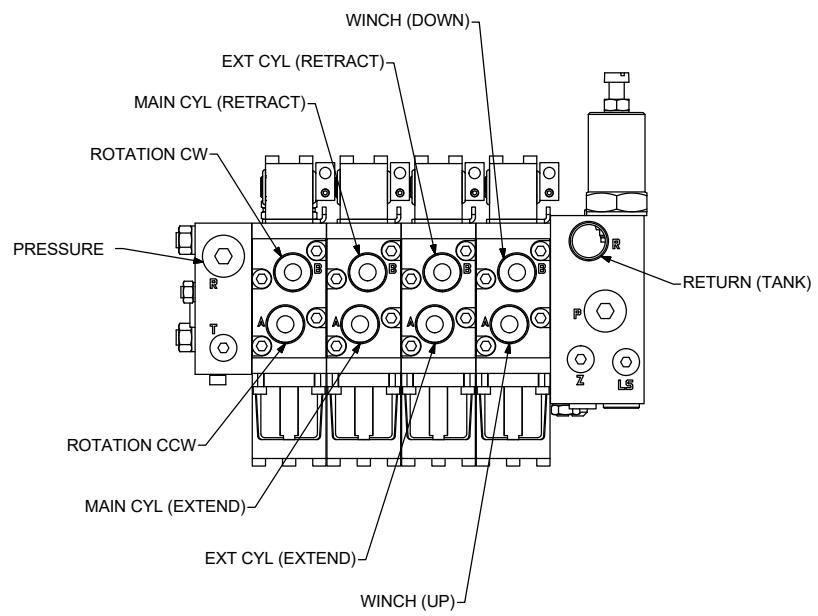
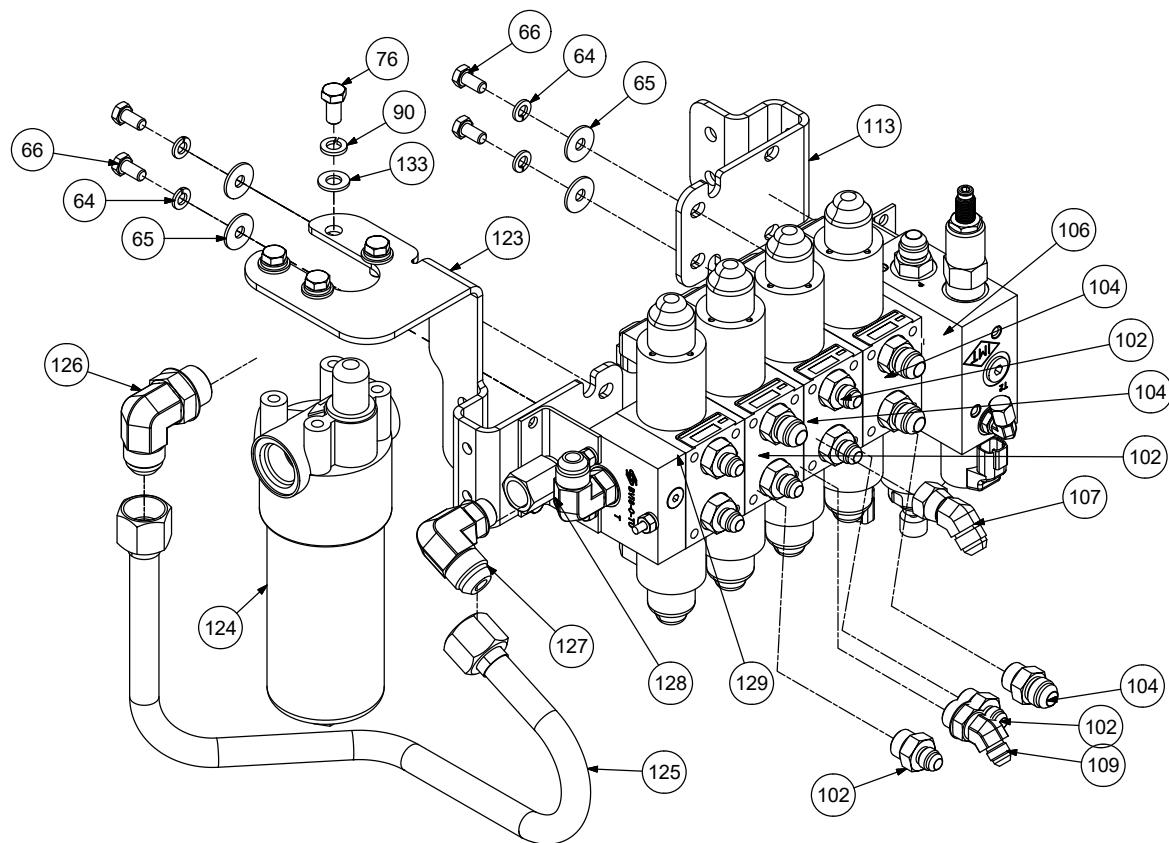
NOTES:

1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARINGGRACE, 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.

Boom Assembly (99904972)



Fully Proportional Valve Bank Assembly (99904972)

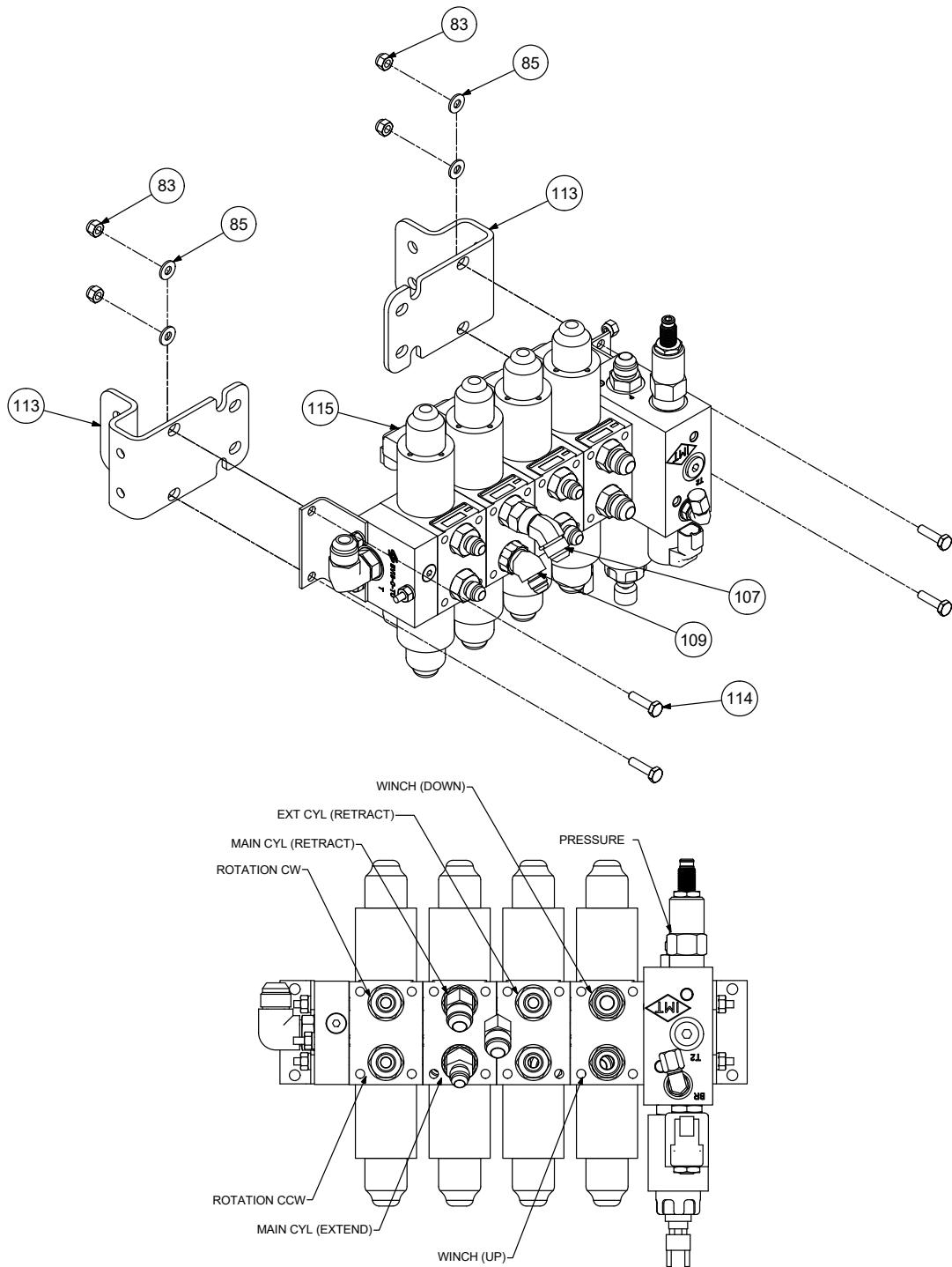


FULLY PROPORTIONAL VALVE BANK ASSEMBLY

NOTE:

1. INSTALL WIRE HARNESS TO VALVE BANK PRIOR TO INSTALLING VALVE BANK BRACKET.

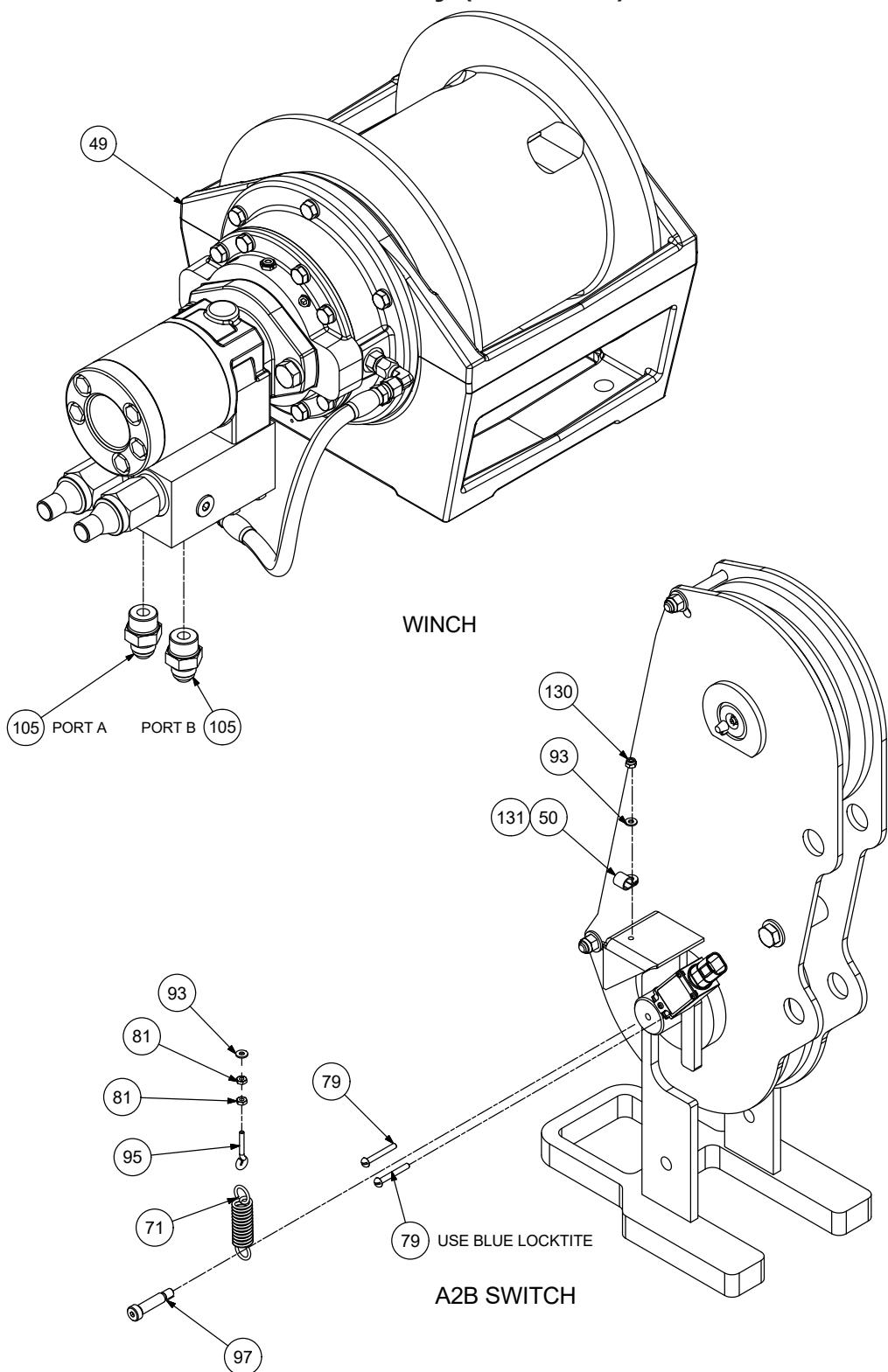
Single Proportional Valve Bank Assembly (99904972)



SINGLE PROPORTIONAL VALVE BANK ASSEMBLY

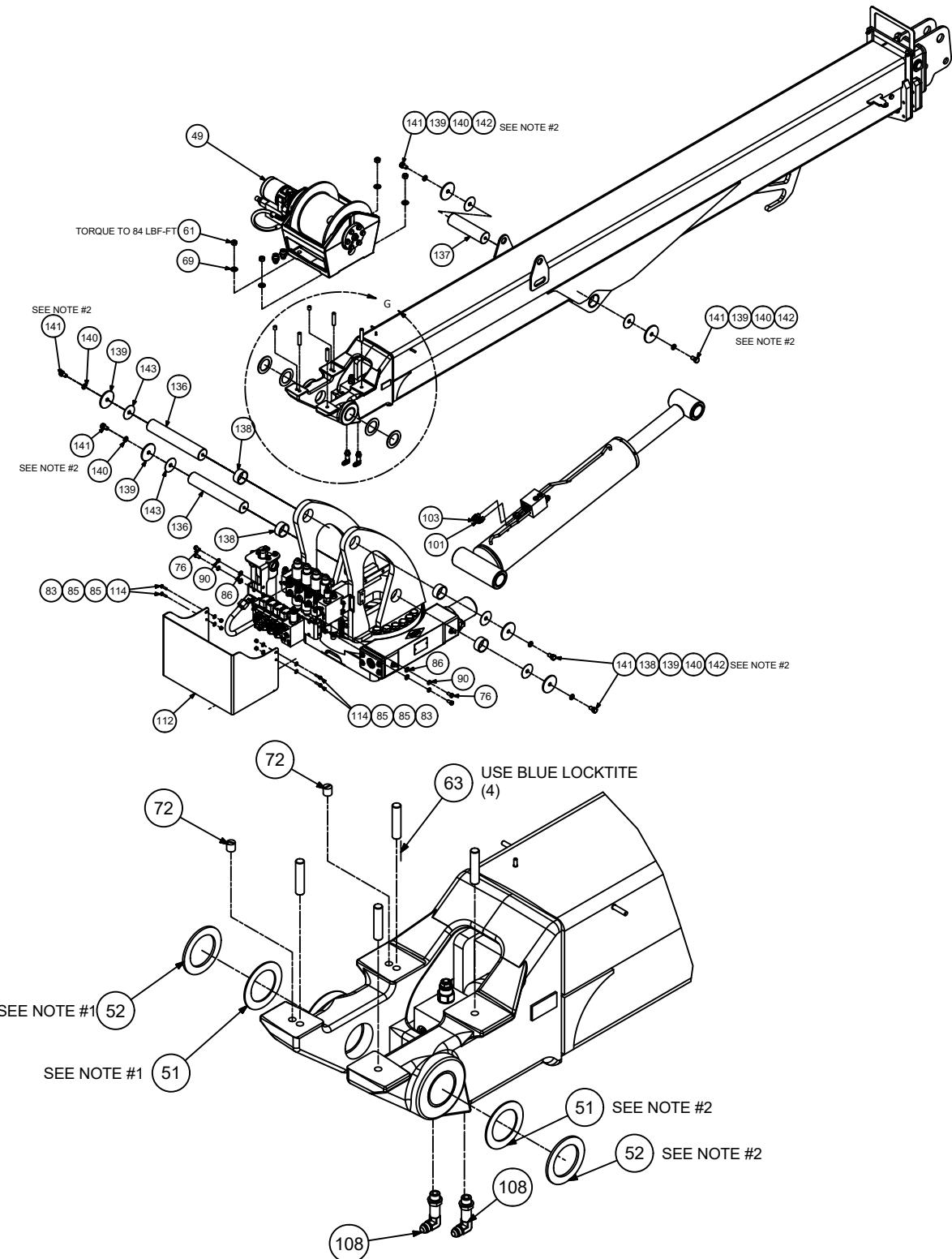
NOTE:

1. INSTALL WIRE HARNESS TO VALVE BANK PRIOR TO INSTALLING VALVE BANK BRACKET.

Winch & Anti-Two Block Assembly (99904972)**NOTE:**

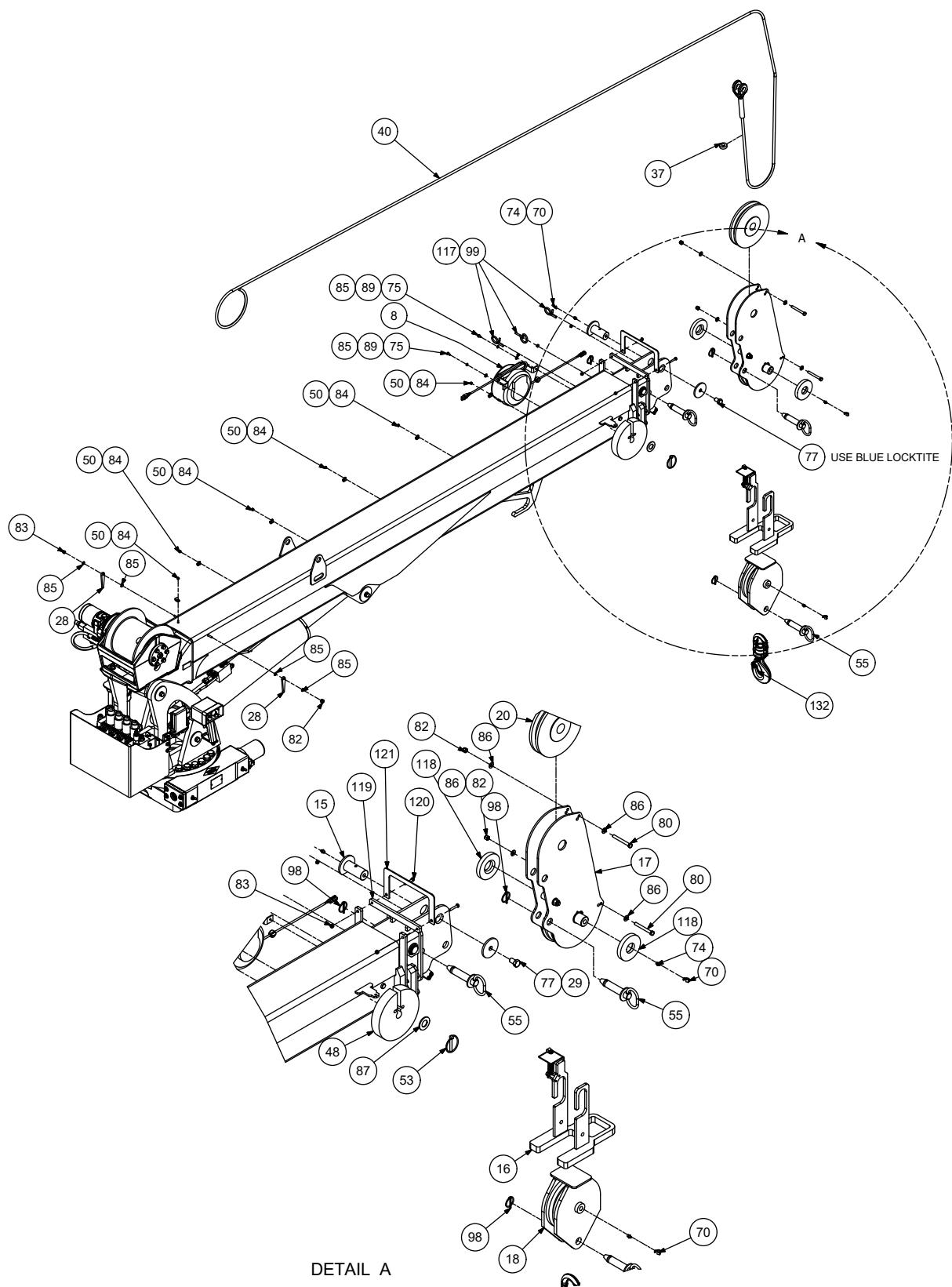
1. NO FLOOD LIGHTS: USE CLAMP-PLASTIC .25 CABLE P/N 72034485, WITH FLOOD LIGHTS: USE CLAMP-PLASTIC .38 CABLE P/N 72034572.

Crane & Winch Assembly (99904972)



NOTE:

1. IF REQUIRED USE 72063038 OR 72063039 MACHNY BUSHINGS BETWEEN MAST AND LOWER BOOM.
2. TORQUE TO 60 LB-FT.

Flip Sheave & Snatch Block Assembly (99904972)

99904972 PARTS LIST

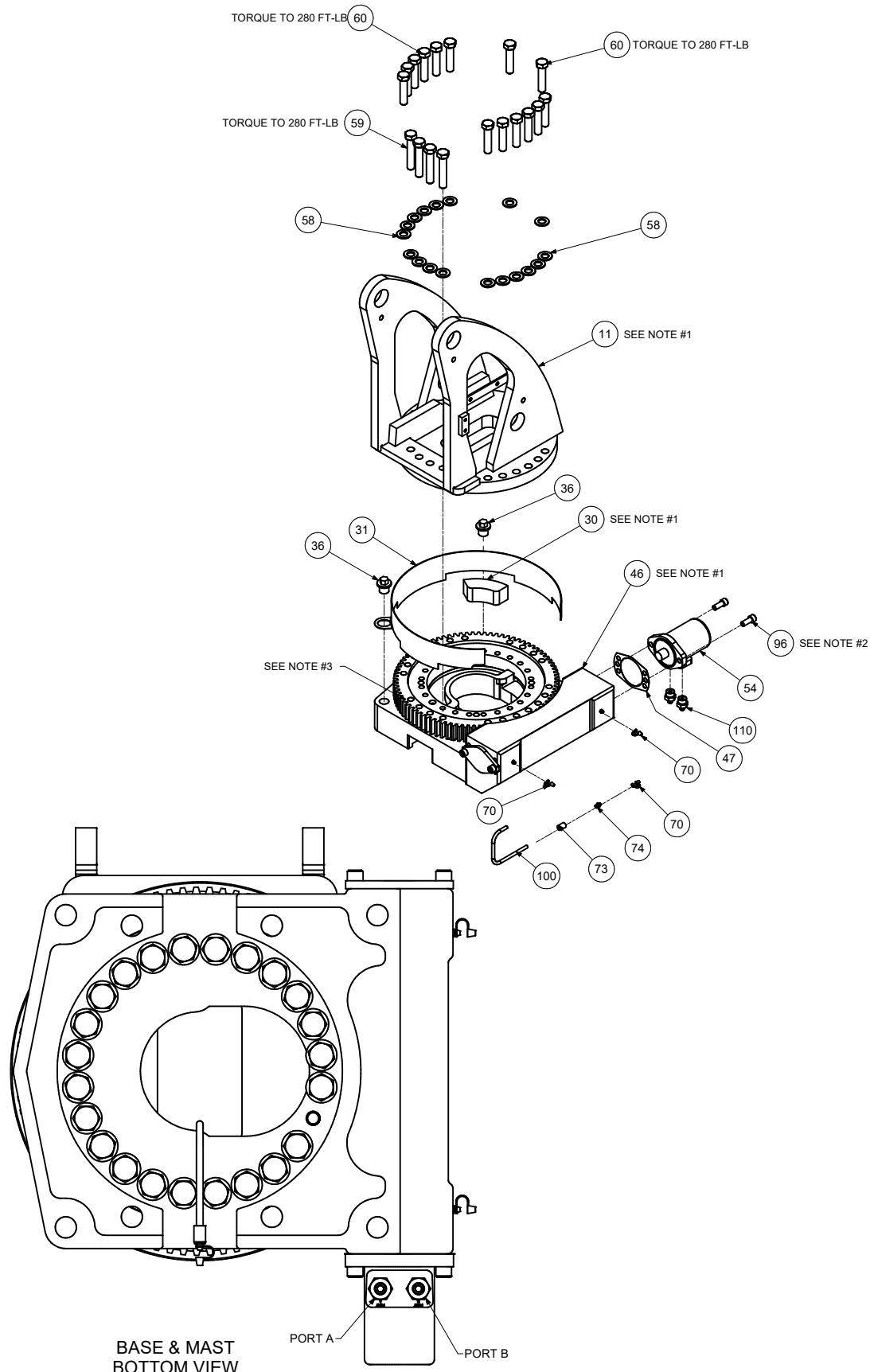
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91723059	KIT-HRDW BASE & MAST 7500-10000		1
2	91723579	KIT-HRDW WINCH MNT S3 CRANES		1
3..	91723543	KIT-HRDW VB MNT HAWE		1
4.	51719413	KIT-HRDW TELE CRANE RADIO CONTROLS		1
5.	91725205	KIT-HRDW SERIES III		1
6.	91726825	KIT-HYD BG4-BG6 SERIES III FP		A/R
7.	91726824	KIT-HYD BG4-BG6 SERIES III SP		A/R
8.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
9.	51727882	CYL-2.75/1.75 2.50/1.75 150.00S 125.00CC		1
10.	51727888	CYL-5.25/2.50 25.06S 45.52CC		1
11.	52727809	MAST WLDMNT-SERIES III		1
12.	52727815	WLDMNT-LOWER BOOM 9500/10000S		1
13.	52727229	WLDMNT-1st STAGE EXT BOOM 12000S		1
14.	52723221	WLDMNT-2nd STAGE EXT BOOM 9500/10000S		1
15.	52723030	PIN-TYPE M 1.50X 3.38		1
16.	52725155	WLDMT- A2B BRKT		1
17.	51727744	FLIP SHEAVE ASM 10000/12000		1
18.	52725066	WLDMT- SNATCH BLOCK 9500/10000		1
19.	51727982	KIT-A2B LIMIT SWITCH NO TOP PIN DEUTSCH		1
20.	60030255	SHEAVE- 9.00 POLYMER		1
21.	60030336	WEAR PAD-RC .19 X 6.00 X 6.00		1
22.	60030337	WEAR PAD-RND 0.19X 2.00X 1.00X 1.00		2
23.	60030421	WEAR PAD-RC 0.25X 6.00X 6.00		1
24.	60030422	WEAR PAD-RND SIII EXT CYL		1
25.	60030423	WEAR PAD-RC 0.25X 6.00X 2.25		4
26.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
27.	60030428	WEAR PAD-RND 0.25X 2.00X .75X .44		4
28.	70034490	PLATE-ANGLE PLASTIC 3.50"		2
29.	60109337	RETAINER PLT-PIN 3.00 DIA		1
30.	60120138	SLIDE-ROTATION STOP 3816		1
31.	60128849	GEAR GUARD 6025 SII		1
32.	60140899	CAP-LOWER BOOM CABLE GUIDE 9500-14000	111	1
33.	60135668	CAP-FIRST STAGE		1
34.	60135669	PIN-TYPE A 1.25X 6.89 (6.46)		1
35.	60135833	RETAINER-1st STAGE EXT CYL		2
36.	70029595	THREADED PLUG 1.00-8 (3816)		2
37.	70145121	COLLAR-SHAFT 2 PIECE 7/8 in.		1
38.	7039053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
39.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
40.	70580232	WIRE ROPE ASM- GALV.44(6X25)X100ft XIPS		1
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.	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.	71056577	GEAR ROTATOR-6025/6625 0.75 BOLTS		1
47.	76039295	GASKET-GEA19 008-10056-1	46	1
48.	71414205	PLATE-SINGLE SHEAVE (20#) .50 WIRE ROPE		1
49.	70570771	WINCH-PLANETARY 6000LB LINE PULL		1
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
51.	72063038	MACHY BUSHING 2.00X14 GA NR		A/R
52.	72063039	MACHY BUSHING 2.00X10 GA NR		A/R
53.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW		1
54.	73051919	MOTOR-HYD (101-2638-009)		1
55.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		3
56.	73734727	VALVE BANK-4-SECT PSL2 W OC INLT		A/R
57.	77441481	HARNESS-TELE RADIO REMOTE SERIES III		1
58.	72063116	WASHER .75 N FLAT H ASTM F436Z	1	22
59.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	1	4

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
60.	72601817	CAP SCR .75-10X 3.25 HH GR8 Z	1	14
61.	72062108	NUT .50-20 HEX GRC Z TOP LOCK	2	4
62.	72063132	WASHER-FLAT .50 N H ASTM F436	2	4
63.	72602138	STUD .50-20X 2.75 DBL .50-13 GR8 STL	2	4
64.	72601797	WASHER-LOCK 8MM	3	4
65.	72602065	WASHER-FLAT M 8	3	4
66.	72602052	CAP SCR M 8-1.25X 16 HHZ	3	4
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
71.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	5	1
72.	72034479	PLUG-PLSTC .50-13X .50 UNC-2B		2
73.	72053301	COUPLING-GLV .12 SCH 40	5	1
74.	72053508	ZERK-NPT .12	5	4
75.	72060000	CAP SCR .25-20X .50 HH GR5 Z	5	2
76.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
77.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	5	1
78.	72060206	CAP SCR .75-10X 2.00 HH GR8 Z	5	1
79.	72060640	SCR-MACH 10-24X 1.50 RDH	5	2
80.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	5	2
81.	72062093	NUT # 8-32 HEX ZINC	5	2
82.	72062103	NUT .38-16 HEX NYLOCK	5	3
83.	72062104	NUT .25-20 HEX NYLOCK	5	5
84.	72062106	NUT 10-24 HEX NYLOCK	5	7
85.	72063001	WASHER .25 FLAT	5	18
86.	72063003	WASHER .38 FLAT	5	8
87.	72063010	WASHER 1.00 FLAT	5	1
88.	72063035	MACHY BUSHING 1.25X10 GA NR	5	2
89.	72063049	WASHER .25 LOCK	5	2
90.	72063051	WASHER .38 LOCK	5	8
91.	72063116	WASHER .75 N FLAT H ASTMF436Z	5	1
92.	72063132	WASHER .50 FLAT ASTM F436	5	17
93.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	5	2
94.	72066129	RETAINING RING-EXT 1.25 HD	5	2
95.	72601938	BOLT-EYE # 8-32X 1.125	5	1
96.	72601949	CAP SCR .50-13X 1.25 SH ZC	5	2
97.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	5	1
98.	72661543	PIN-QUICK 316-10QP	5	3
99.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	5	3
100.	51395121	HOSE-AA .13 X 13.50 OAL (2-2)	6	1
101.	72532355	ADPTR-M STR/M JIC 6 6	6	1
102.	72532356	ADPTR-M STR/M JIC 8 6	6	4
103.	72532357	ADPTR-M STR/M JIC 6 8	6	1
104.	72532358	ADPTR-M STR/M JIC 8 8	6	3
105.	72532359	ADPTR-M STR/M JIC 10 8	6	2
106.	72532361	ADPTR-M STR/M JIC 8 10	6	1
107.	72532670	ELBOW-M JIC/45/F JIC 8 8	6	1
108.	72532700	ELBOW-M STR/90/M JIC XLG 6 6	6	1
109.	72533583	ELBOW-M STR/45/M JIC 8 6	6	2
110.	72533613	ADPTR-M STR/M JIC 10 6	6	2
111.	93725207	KIT-CABLE GUIDE 9500/14000		1
112.	60144215	COVER-VALVE BANK SIII		1
113.	60140840	BRKT-MAST VB 7500-10000L		2
114.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
115.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
116.	77441537	HARNESS-S3 TELE S-PROP VALVE BANK CERVIS		A/R
117.	72062000	NUT .25-20 HEX		3
118.	60030486	SPACER-A2B BRACKET		2
119.	60140935	GUIDE - CABLE WEAR (WIDE)	111	1
120.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	111	2

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
121.	60140938	BRKT - CABLE GUIDE (WIDE)	111	1
122.	72062104	NUT .25-20 HEX NYLOCK	111	2
123.	60143076	BRKT-MAST VB 7500-10000L FP		1
124.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
125.	71415691	TUBE ASM-PRESSURE FILTER S3FP LARGE MAST		1
126.	72053767	ELBOW-M STR/90/M JIC 12 12		1
127.	72533623	ELBOW-M STR/90/M JIC 8 12		1
128.	72534898	O-RING EXTENDER 08-08		1
129.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	6	1
130.	72062207	NUT 8-32 HEX NYLOCK		1
131.	72034572	CLAMP-PLASTIC .38 CABLE		1
132.	70735099	HOOK-SWVL BBRG 5TON W/LATCH		1
133.	72063186	WASHER-FLAT .38 N H ASTM F436		4
134.	72602158	CAP SCR .50-13X 1.75 HH GR5 YZ		12
135.	72602160	WASHER- LOCK .50 YZ		12
136.	70190007	PIN-TYPE AB 2.00 X 11.88 SS		2
137.	70190008	PIN-TYPE AB 2.00 X 7.63 SS		1
138.	70034581	BEARING MRP 2.00X2.25X1.00 POLYGON		4
139.	70190004	RETAINER PLT-PIN 0.50 X 3.00 DIA SS		6
140.	72063144	WASHER-SS .50 LOCK TYPE 304	5	6
141.	72602168	CAP SCR .50-13X .88 HH SS	5	6
142.	60030442	WEAR PAD-RND 0.25X 1.00X .50X .38		2
143.	60030590	WEAR PAD-RND 0.56X 2.44X .03		6

REV DS CN1009-3

This page left intentionally blank

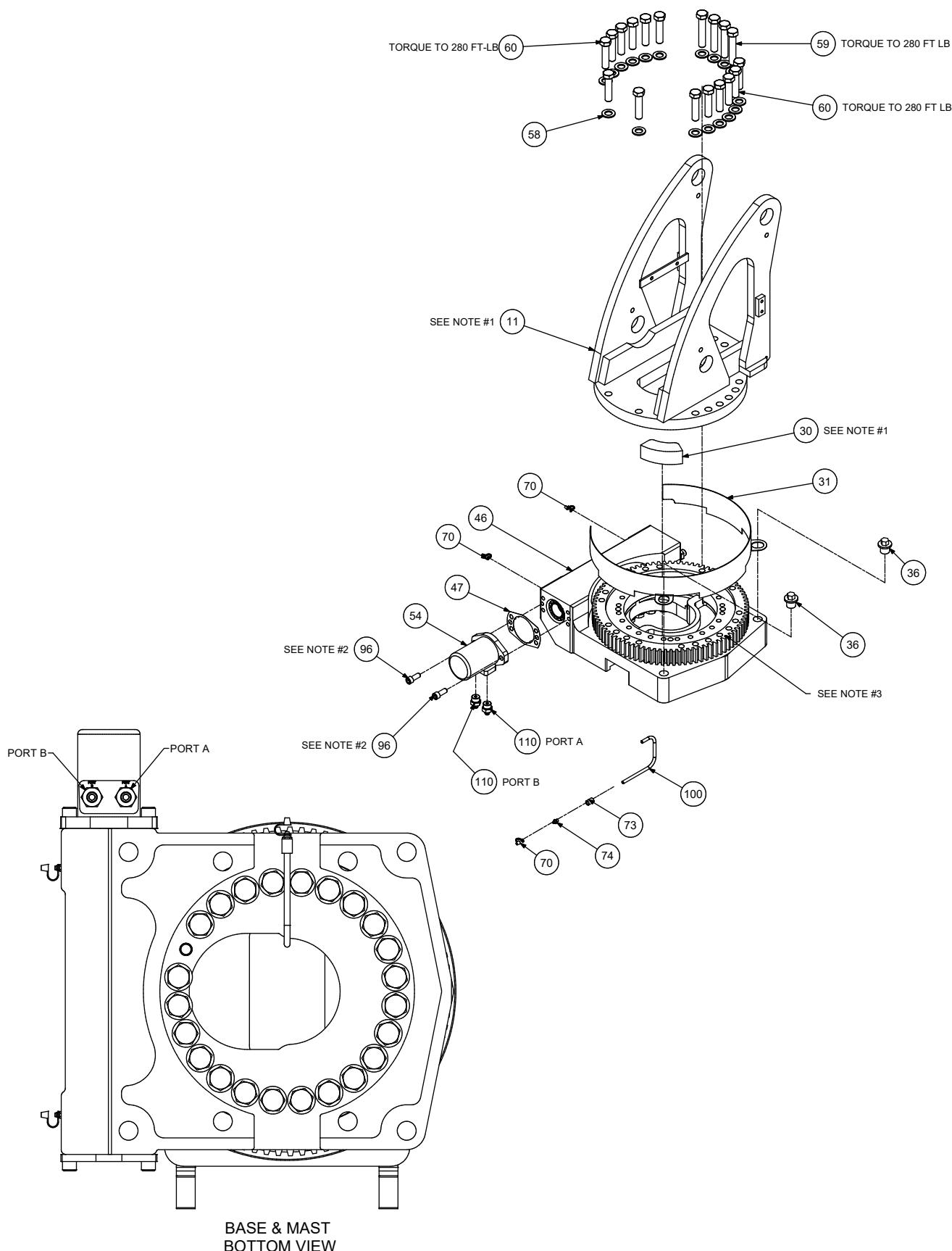
Base & Mast Assembly, Test Stand (99904972)

BASE & MAST ASSEMBLY, TEST STAND PARTS LIST (99904972)

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91723059	KIT-HRDW BASE & MAST 7500-10000		1
5.	91725205	KIT-HRDW SERIES III		1
6.	91726825	KIT-HYD BG4-BG6 SERIES III FP		A/R
11.	52725172	MAST WLDMMT-SERIES III		1
30.	60120138	SLIDE-ROTATION STOP 3816		1
31.	60128849	GEAR GUARD 6025 SII		1
36.	70029595	THREADED PLUG 1.00-8 (3816)		2
46.	71056577	GEAR ROTATOR-6025/6625 0.75 BOLTS		1
47.	76039295	GASKET-GEA19 008-10056-1	46	1
54.	73051919	MOTOR-HYD (101-2638-009)		1
58.	72063116	WASHER .75 N FLAT H ASTM F436Z	1	22
59.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	1	4
60.	72601817	CAP SCR .75-10X 3.25 HH GR8 Z	1	14
70.	70034382	CAP-GREASE PRO20 GC-RED	5	6
73.	72053301	COUPLING-GLV .12 SCH 40	5	1
74.	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)	6	1
110.	72533613	ADPTR-M STR/M JIC 10 6	6	2
REV. DN CN1111				

NOTE:

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 TRUCK.

Crane Assembly Truck Mount (99904972)

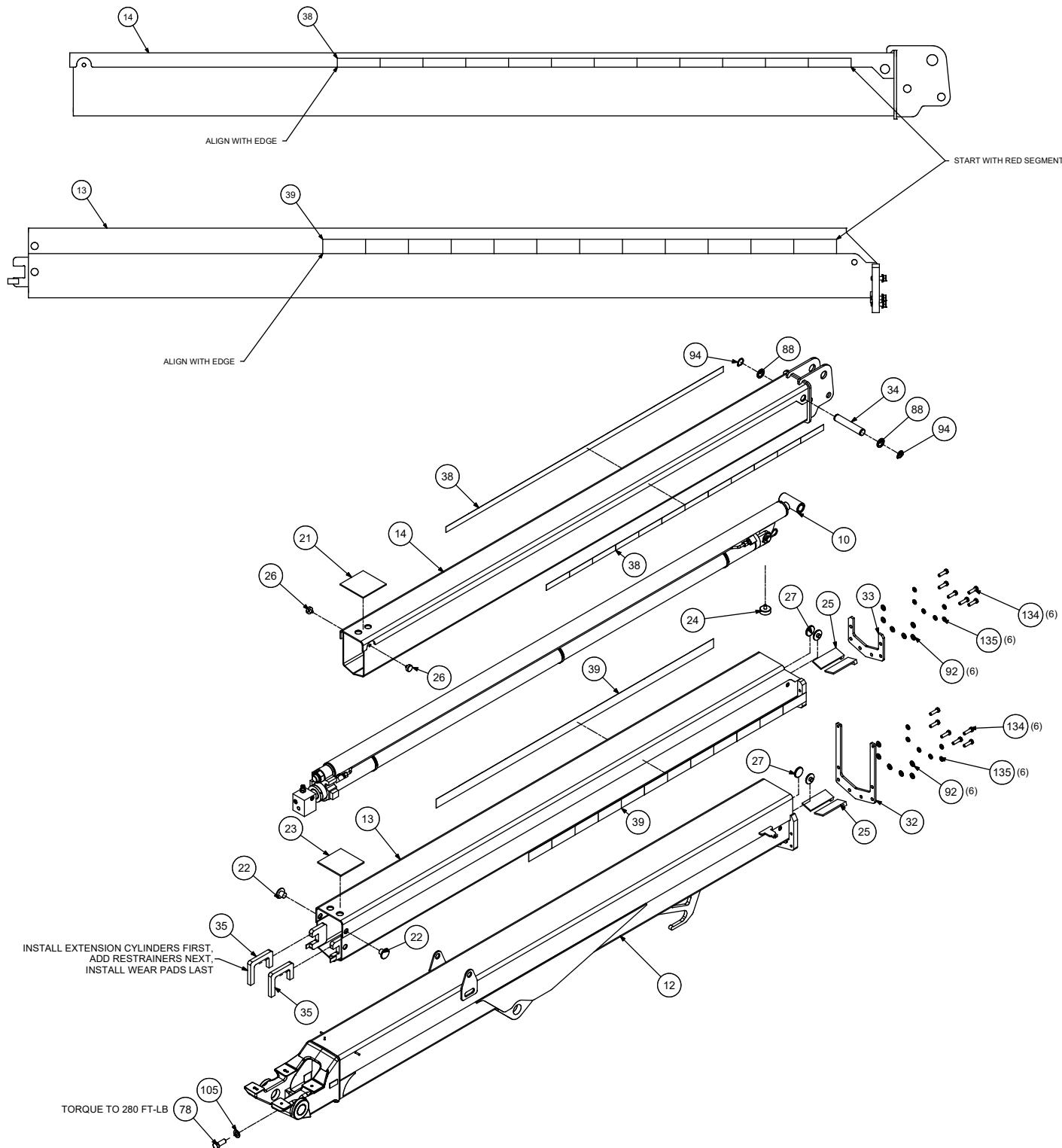
TRUCK MOUNT PARTS LIST (99904972)

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91723059	KIT-HRDW BASE & MAST 7500-10000		1
5.	91725205	KIT-HRDW SERIES III		1
6.	91726825	KIT-HYD BG4-BG6 SERIES III FP		A/R
11.	52725172	MAST WLDMMT-SERIES III		1
30.	60120138	SLIDE-ROTATION STOP 3816		1
31.	60128849	GEAR GUARD 6025 SII		1
36.	70029595	THREADED PLUG 1.00-8 (3816)		2
46.	71056577	GEAR ROTATOR-6025/6625 0.75 BOLTS		1
47.	76039295	GASKET-GEA19 008-10056-1	46	1
54.	73051919	MOTOR-HYD (101-2638-009)		1
58.	72063116	WASHER .75 N FLAT H ASTM F436Z	1	22
59.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	1	4
60.	72601817	CAP SCR .75-10X 3.25 HH GR8 Z	1	14
70.	70034382	CAP-GREASE PRO20 GC-RED	5	6
73.	72053301	COUPLING-GLV .12 SCH 40	5	1
74.	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)	6	1
110.	72533613	ADPTR-M STR/M JIC 10 6	6	2
REV. DN CN1111				

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.

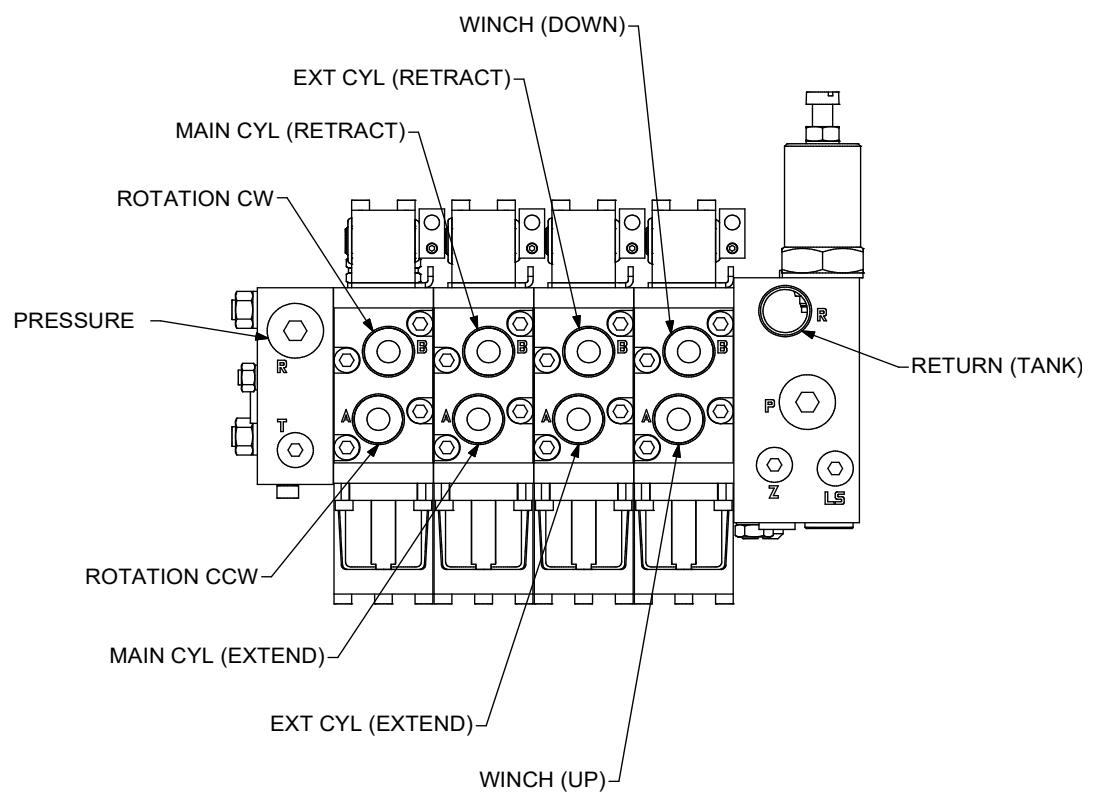
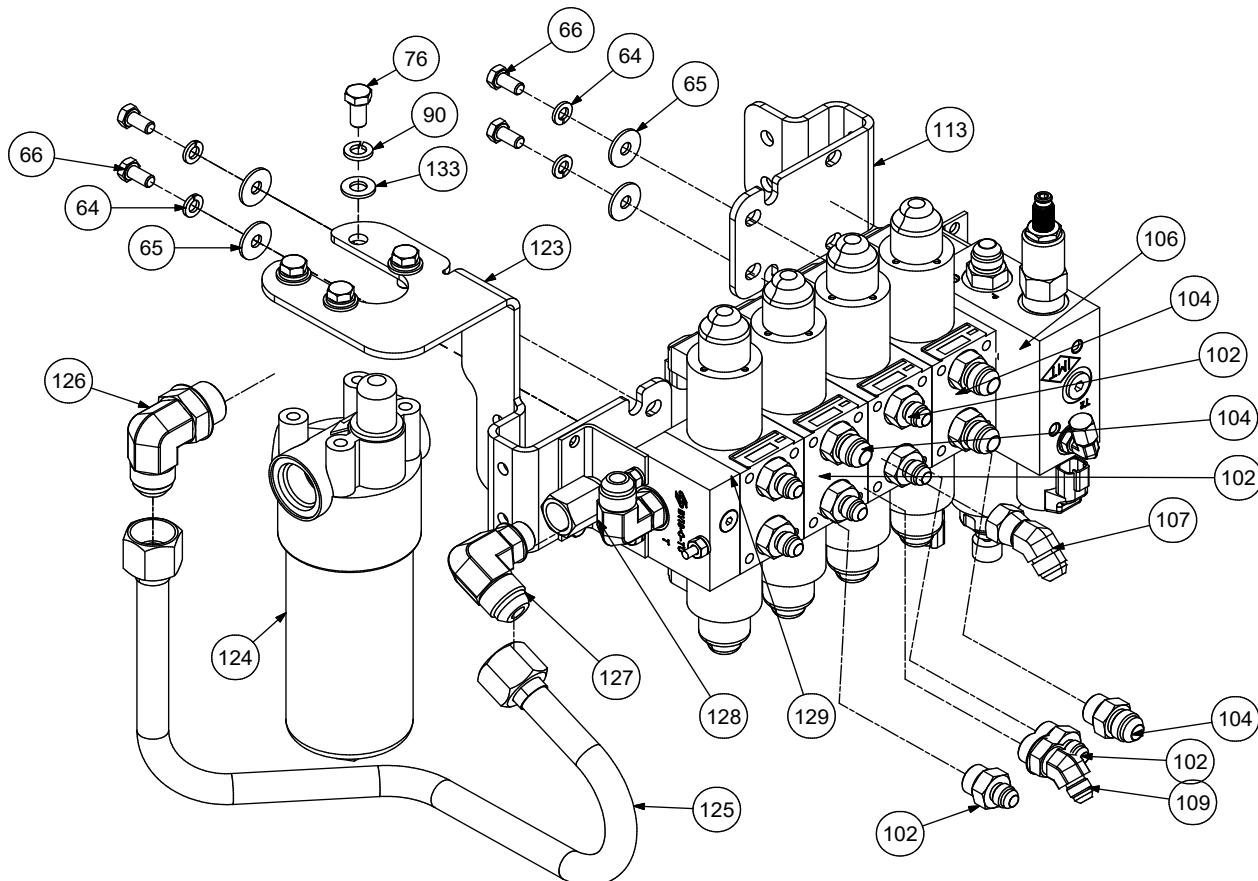
Boom Assembly (99904972)



BOOM ASSEMBLY PARTS LIST(99904972)

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
5.	91725205	KIT-HRDW SERIES III		1
6.	91726825	KIT-HYD BG4-BG6 SERIES III FP		A/R
10.	51723605	CYL ASM-2.50/1.50 2.75/1.75 150.0S 125.0		1
12.	52725162	WLDMNT-LOWER BOOM 9500/10000S		1
13.	52727229	WLDMNT-1ST STAGE EXT BOOM 12000S		1
14.	52723221	WLDMNT-2ND STAGE EXT BOOM 9500/10000S		1
20.	60030255	SHEAVE- 9.00 POLYMER		1
21.	60030336	WEAR PAD-RC .19 X 6.00 X 6.00		1
22.	60030337	WEAR PAD-RND 0.19X 2.00X 1.00X 1.00		2
23.	60030421	WEAR PAD-RC 0.25X 6.00X 6.00		1
24.	60030422	WEAR PAD-RND SIII EXT CYL		1
25.	60030423	WEAR PAD-RC 0.25X 6.00X 2.25		4
26.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
27.	60030428	WEAR PAD-RND 0.25X 2.00X .75X .44		4
32.	60140899	CAP-LOWER BOOM CABLE GUIDE 9500-14000	111	1
34.	60135668	PIN-TYPE A 1.25X 6.89 (6.46)		1
35.	60135833	RETAINER-1ST STAGE EXT CYL		2
38.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
39.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
78.	72060206	CAP SCR .75-10X 2.00 HH GR8 Z	5	1
88.	72063035	MACHY BUSHING 1.25X10 GA NR	5	2
92.	72063132	WASHER .50 FLAT ASTM F436	5	17
94.	72066129	RETAINING RING-EXT 1.25 HD	5	2
105.	72532359	ADPTR-M STR/M JIC 10 8	6	2
111.	93725207	KIT-CABLE GUIDE 9500/14000		1
134.	72602158	CAP SCR .50-13X 1.75 HH GR5 YZ		12
135.	72602160	WASHER- LOCK .50 YZ		12
REV. DN CN1111				

Fully Proportional Valve Bank Assembly (99904972)



FULLY PROPORTIONAL VALVE BANK ASSEMBLY

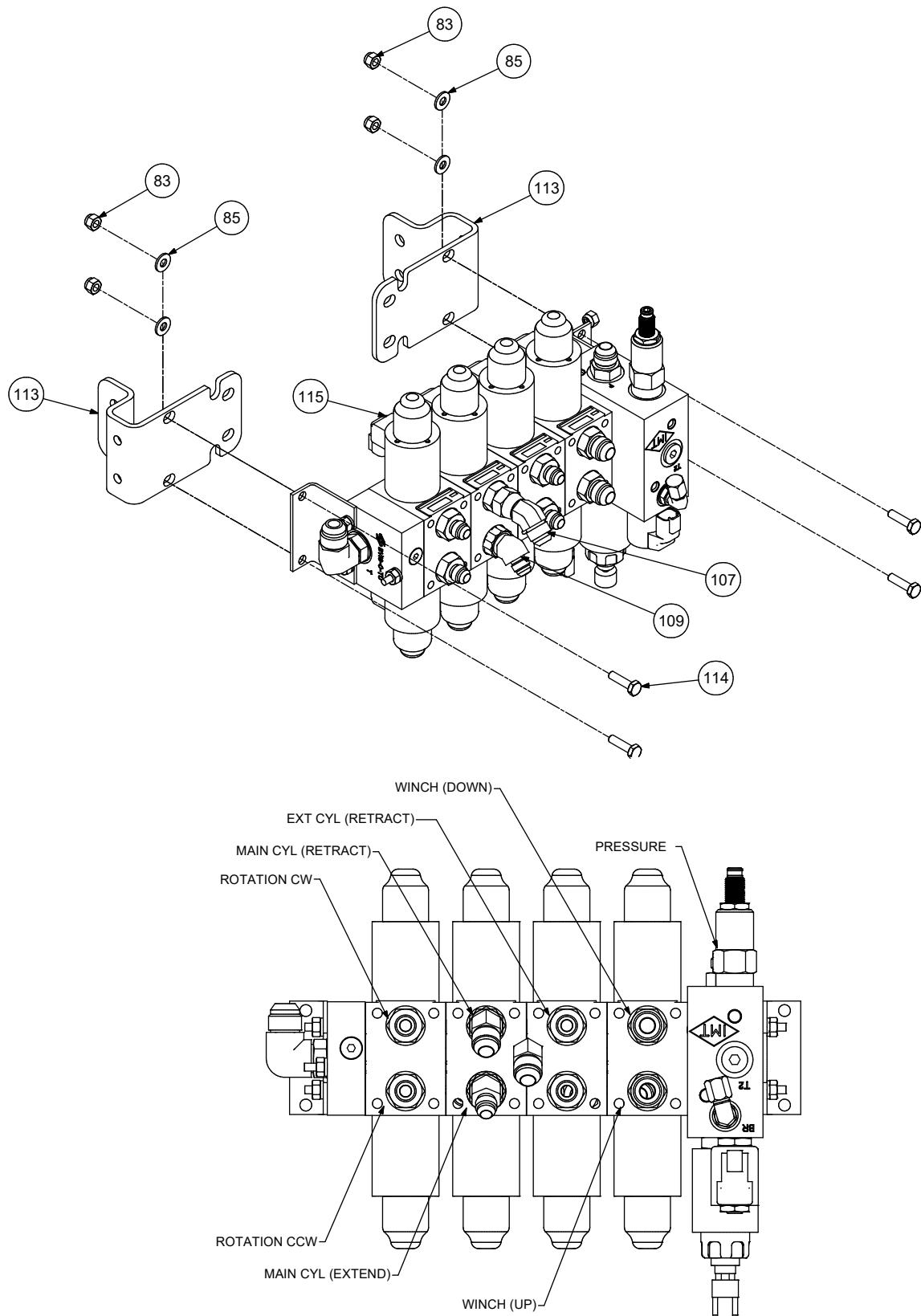
VALVE BANK - FULLY PROPORTIONAL PARTS LIST (99904972)

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
3.	91723543	KIT-HRDW VB MNT HAWE		1
5.	91725205	KIT-HRDW SERIES III		1
6.	91726825	KIT-HYD BG4-BG6 SERIES III FP		A/R
64.	72601797	WASHER-LOCK 8MM	3	4
65.	72602065	WASHER-FLAT M 8	3	4
66.	72602052	CAP SCR M 8-1.25X 16 HHZ	3	4
76.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
90.	72063051	WASHER .38 LOCK	5	8
102.	72532356	ADPTR-M STR/M JIC 8 6	6	4
104.	72532358	ADPTR-M STR/M JIC 8 8	6	3
106.	72532361	ADPTR-M STR/M JIC 8 10	6	1
107.	72532670	ELBOW-M JIC/45/F JIC 8 8	6	1
109.	72533583	ELBOW-M STR/45/M JIC 8 6	6	2
113.	60140840	BRKT-MAST VB 7500-10000L		2
123.	60143076	BRKT-MAST VB 7500-10000L FP		1
124.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
125.	71415691	TUBE ASM-PRESSURE FILTER S3FP LARGE MAST		1
126.	72053767	ELBOW-M STR/90/M JIC 12 12		1
127.	72533623	ELBOW-M STR/90/M JIC 8 12		1
128.	72534898	O-RING EXTENDER 08-08		1
129.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	6	1
133.	72063186	WASHER-FLAT .38 N H ASTM F436		4

REV. DN CN1111

NOTE:

1. INSTALL WIRE HARNESS TO VALVE BANK PRIOR TO INSTALLING VALVE BANK BRACKET.

Single Proportional Valve Bank Assembly (99904972)

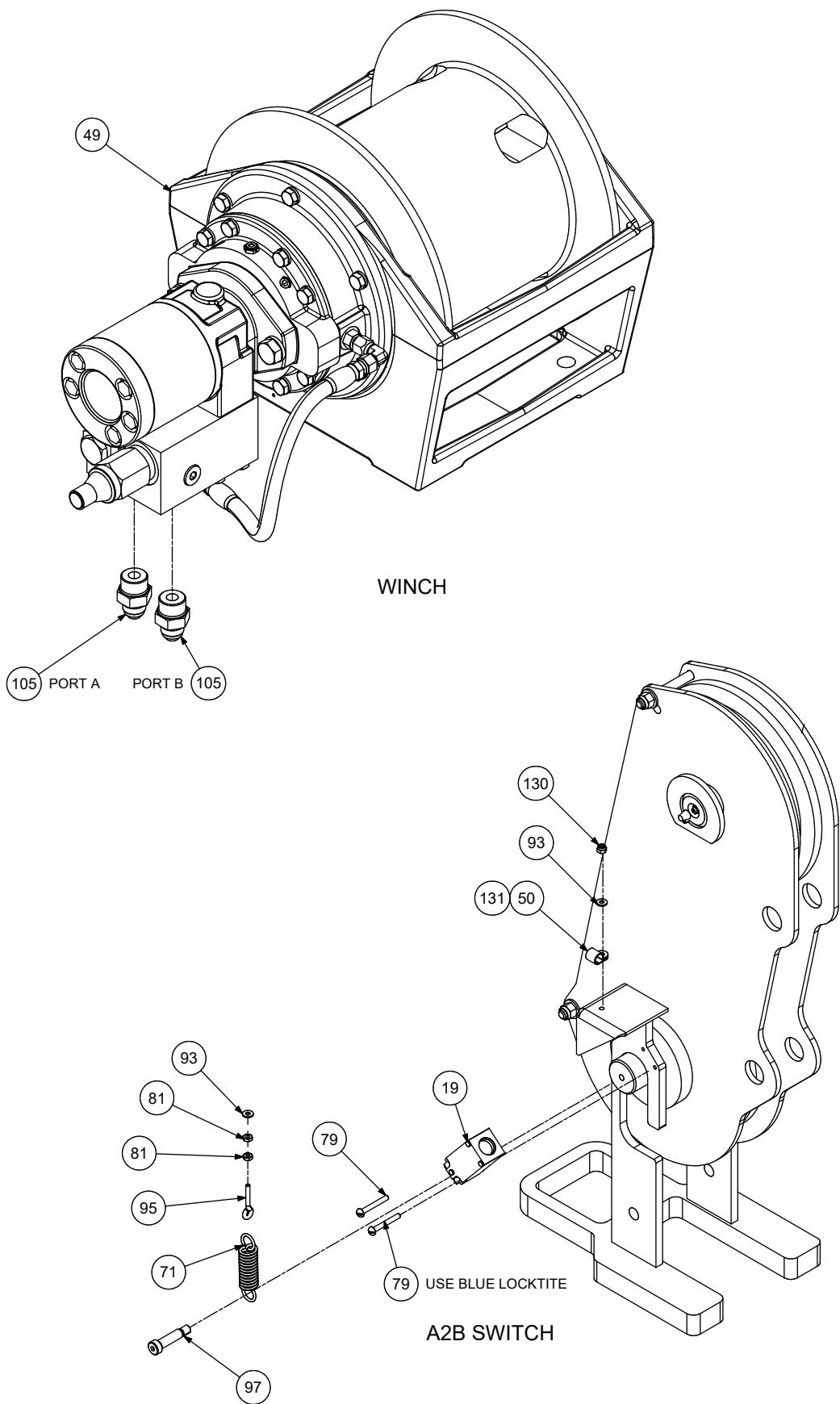
SINGLE PROPORTIONAL VALVE BANK ASSEMBLY

VALVE BANK ASSEMBLY - SINGLE PROPORTIONAL PARTS LIST (99904972)

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
5.	91725205	KIT-HRDW SERIES III		1
6.	91726825	KIT-HYD BG4-BG6 SERIES III FP		A/R
83.	72062104	NUT .25-20 HEX NYLOCK	5	5
85.	72063001	WASHER .25 FLAT	5	18
107	72532670	ELBOW-M JIC/45/F JIC 8 8	6	1
109.	72533583	ELBOW-M STR/45/M JIC 8 6	6	2
113.	60140840	BRKT-MAST VB 7500-10000L		2
114.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
115.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
REV. DN CN1111				

NOTE:

1. INSTALL WIRE HARNESS TO VALVE BANK PRIOR TO INSTALLING VALVE BANK BRACKET.

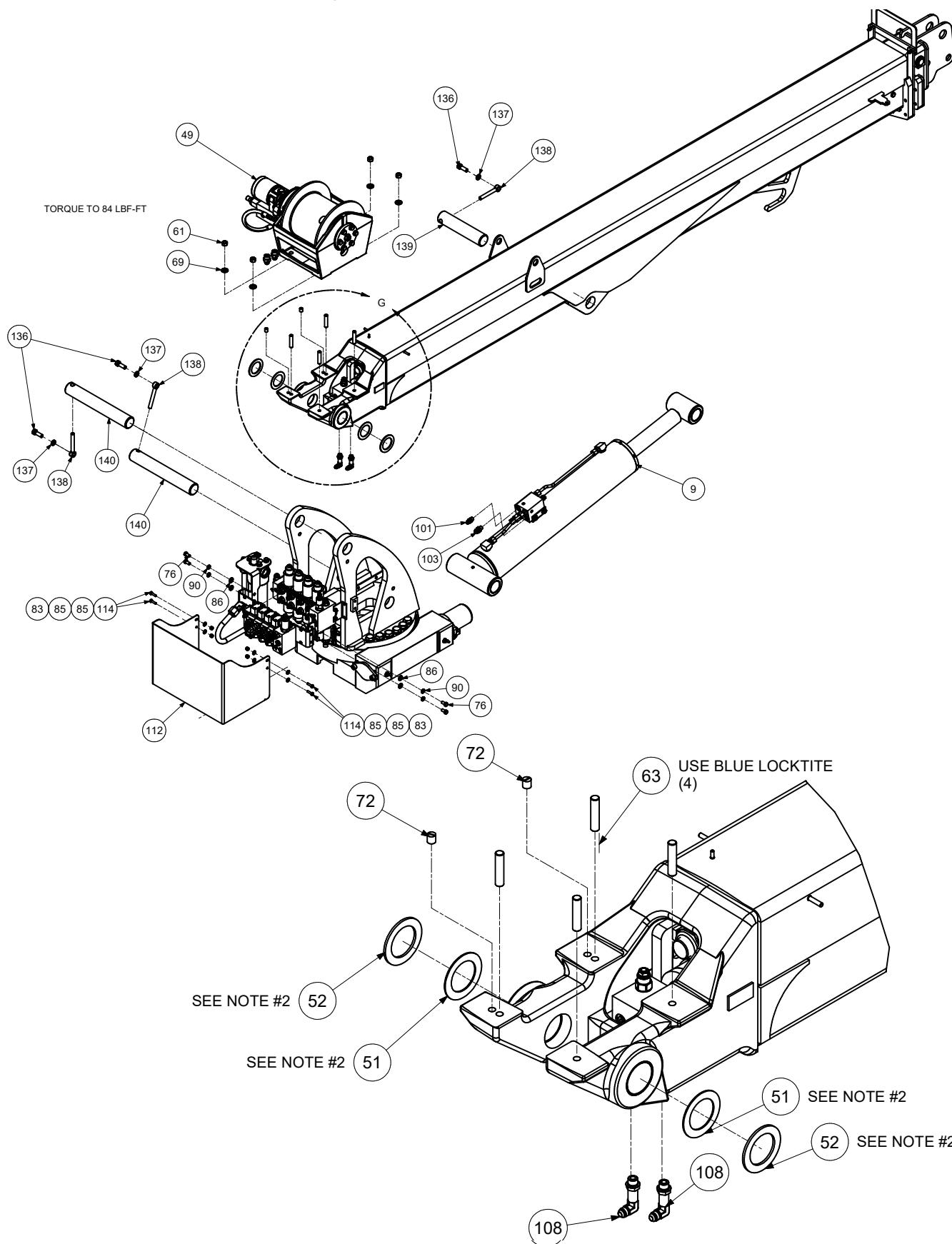
Winch & Anti-Two Block Assembly (99904972)

WINCH & A2B ASSEMBLY PARTS LIST (99904972)

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
5.	91725205	KIT-HRDW SERIES III		1
6.	91726825	KIT-HYD BG4-BG6 SERIES III FP		A/R
19	51727982	KIT-A2B LIMIT SWITCH		1
49.	70570771	WINCH-PLANETARY 6000LB LINE PULL		1
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
71.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	5	1
79.	72060640	SCR-MACH 10-24X 1.50 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
130.	72062207	NUT 8-32 HEX NYLOCK		1
131.	72034572	CLAMP-PLASTIC .38 CABLE		1
REV. DN CN1111				

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.

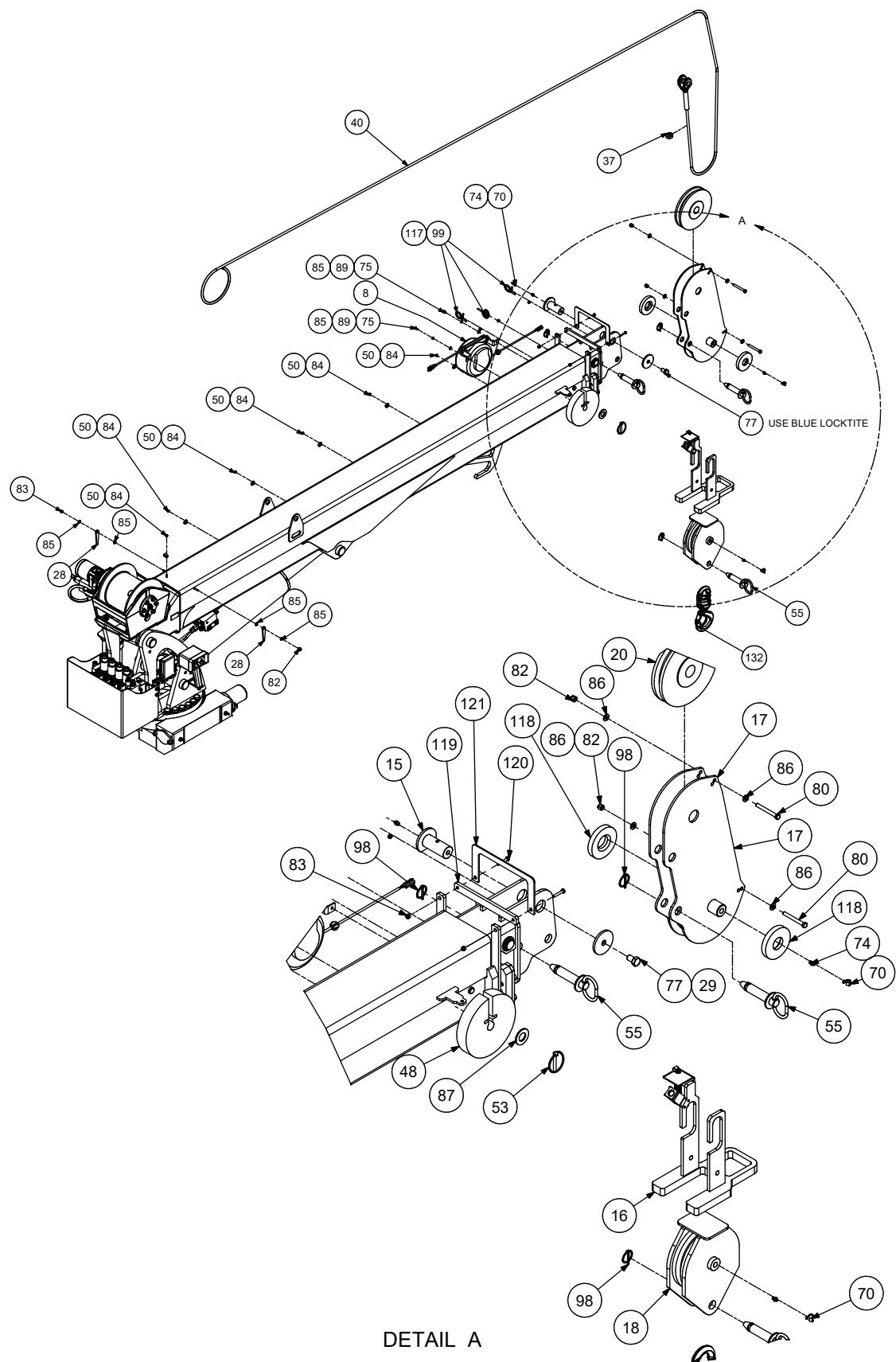
Crane & Winch Assembly (99904972)

CRANE & WINCH ASSEMBLY PARTS LIST (99904922)

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
2.	91723579	KIT-HRDW WINCH MNT S3 CRANES		1
4.	51719413	KIT-HRDW TELE CRANE RADIO CONTROLS		1
5.	91725205	KIT-HRDW SERIES III		1
6.	91726825	KIT-HYD BG4-BG6 SERIES III FP		A/R
9.	51722956	CYL-5.25/2.50 25.07S 45.52CC C		1
49.	70570771	WINCH-PLANETARY 6000LB LINE PULL		1
51.	72063038	MACHY BUSHING 2.00X14 GA NR		A/R
52.	72063039	MACHY BUSHING 2.00X10 GA NR		A/R
61.	72062108	NUT .50-20 HEX GRC Z TOP LOCK	2	4
63.	72602138	STUD .50-20X 2.75 DBL .50-13 GR8 STL	2	4
69.	72601846	CAP SCR .25-20X 1.25 HH SS	4	2
72.	72034479	PLUG-PLSTC .50-13X .50 UNC-2B		2
76.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
83.	72062104	NUT .25-20 HEX NYLOCK	5	5
85.	72063001	WASHER .25 FLAT	5	18
86.	72063003	WASHER .38 FLAT	5	8
90.	72063051	WASHER .38 LOCK	5	8
100.	51395121	HOSE-AA .13 X 13.50 OAL (2-2)	6	1
101.	72532355	ADPTR-M STR/M JIC 6 6	6	1
103.	72532357	ADPTR-M STR/M JIC 6 8	6	1
108..	72532700	ELBOW-M STR/90/M JIC XLG 6 6	6	1
112.	60144215	COVER-VALVE BANK SIII		1
114.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
136.	72060093	CAP SCR HH 1/2-13 UNC - 1.50 GR5 Z		3
137.	72063053	WASHER-LOCK ZINC 1/2		3
138.	71415015	KEEPER-PIN .50		3
139.	60140916	PIN-TYPE NN 2.00X 9.50		1
140.	60140915	PIN-TYPE NN 2.00X13.75		2
REV. DN 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 72063038 OR 72063039 BETWEEN MAST AND LOWER BOOM.

Flip Sheave & Snatch Block Assembly (99904972)

FLIP SHEAVE ASSEMBLY PARTS LIST(99904972)

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
5.	91725205	KIT-HRDW SERIES III		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.	52725066	WLDMT- SNATCH BLOCK 9500/10000		1
20.	60030255	SHEAVE- 9.00 POLYMER		1
28.	70034490	PLATE-ANGLE PLASTIC 3.50"		2
29.	60109337	RETAINER PLT-PIN 3.00 DIA		1
37.	70145121	COLLAR-SHAFT 2 PIECE 7/8 IN.		1
40.	70580168	WIRE ROPE ASM-.44(6X25)X100' LH LAY		1
48.	71414205	PLATE-SINGLE SHEAVE (20#) .50 WIRE ROPE		1
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
53.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW		1
55.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		3
70.	70034382	CAP-GREASE PRO20 GC-RED	5	6
74.	72053508	ZERK-NPT .12	5	4
75.	72060000	CAP SCR .25-20X .50 HH GR5 Z	5	2
77.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	5	1
80.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	5	2
82.	72062103	NUT .38-16 HEX NYLOCK	5	3
83.	72062104	NUT .25-20 HEX NYLOCK	5	5
84.	72062106	NUT 10-24 HEX NYLOCK	5	7
85.	72063001	WASHER .25 FLAT	5	18
86.	72063003	WASHER .38 FLAT	5	8
87.	72063010	WASHER 1.00 FLAT	5	1
89.	72063049	WASHER .25 LOCK	5	2
98.	72661543	PIN-QUICK 316-10QP	5	3
99.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	5	3
111.	93725207	KIT-CABLE GUIDE 9500/14000		1
117.	72062000	NUT .25-20 HEX		3
118.	60030486	SPACER-A2B BRACKET		2
119.	60140935	GUIDE - CABLE WEAR (WIDE)	111	1
120.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	111	2
121.	60140938	BRKT - CABLE GUIDE (WIDE)	111	1
REV. DN CN1111				

99904922 COMPLETE PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91723059	KIT-HRDW BASE & MAST 7500-10000		1
2.	91723579	KIT-HRDW WINCH MNT S3 CRANES		1
3.	91723543	KIT-HRDW VB MNT HAWE		1
4.	51719413	KIT-HRDW TELE CRANE RADIO CONTROLS		1
5.	91725205	KIT-HRDW SERIES III		1
6.	91726825	KIT-HYD BG4-BG6 SERIES III FP		A/R
7.	91726824	KIT-HYD BG4-BG6 SERIES III SP		A/R
8.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
9.	51722956	CYL-5.25/2.50 25.07S 45.52CC C		1
10.	51723605	CYL ASM-2.50/1.50 2.75/1.75 150.0S 125.0		1
11.	52725172	MAST WLDMNT-SERIES III		1
12.	52725162	WLDMNT-LOWER BOOM 9500/10000S		1
13.	52727229	WLDMNT-1ST STAGE EXT BOOM 12000S		1
14.	52723221	WLDMNT-2ND STAGE EXT BOOM 9500/10000S		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.	52725066	WLDMT-SNATCH BLOCK 9500/10000		1
19.	51727982	KIT-A2B LIMIT SWITCH		1
20.	60030255	SHEAVE- 9.00 POLYMER		1
21.	60030336	WEAR PAD-RC .19 X 6.00 X 6.00		1
22.	60030337	WEAR PAD-RND 0.19X 2.00X 1.00X 1.00		2
23.	60030421	WEAR PAD-RC 0.25X 6.00X 6.00		1
24.	60030422	WEAR PAD-RND SIII EXT CYL		1
25.	60030423	WEAR PAD-RC 0.25X 6.00X 2.25		4
26.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
27.	60030428	WEAR PAD-RND 0.25X 2.00X .75X .44		4
28.	70034490	PLATE-ANGLE PLASTIC 3.50"		2
29.	60109337	RETAINER PLT-PIN 3.00 DIA		1
30.	60120138	SLIDE-ROTATION STOP 3816		1
31.	60128849	GEAR GUARD 6025 SII		1
32.	60140899	CAP-LOWER BOOM CABLE GUIDE 9500-14000	111	1
33.	60135668	CAP-FIRST STAGE		1
34.	60135669	PIN-TYPE A 1.25X 6.89 (6.46)		1
35.	60135833	RETAINER-1ST STAGE EXT CYL		2
36.	70029595	THREADED PLUG 1.00-8 (3816)		2
37.	70145121	COLLAR-SHAFT 2 PIECE 7/8 IN.		1
38.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
39.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
40.	70580168	WIRE ROPE ASM-.44(6X25)X100' LH LAY		1
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.	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.	71056577	GEAR ROTATOR-6025/6625 0.75 BOLTS		1
47.	76039295	GASKET-GEA19 008-10056-1	46	1
48.	71414205	PLATE-SINGLE SHEAVE (20#) .50 WIRE ROPE		1
49.	70570771	WINCH-PLANETARY 6000LB LINE PULL		1
50.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
51.	72063038	MACHY BUSHING 2.00X14 GA NR		A/R
52.	72063039	MACHY BUSHING 2.00X10 GA NR		A/R
53.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW		1
54.	73051919	MOTOR-HYD (101-2638-009)		1
55.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		3

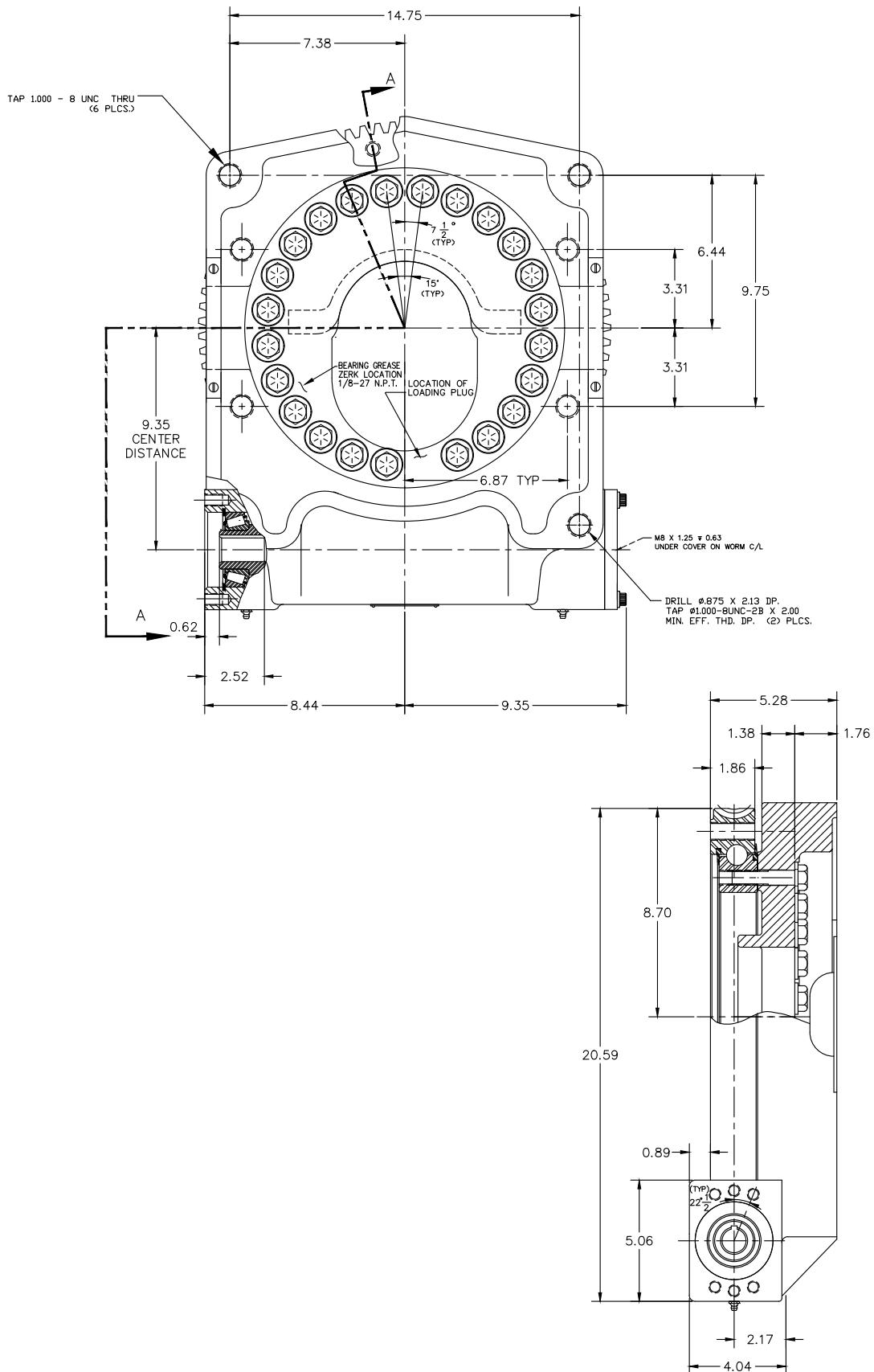
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
56.	73734727	VALVE BANK-4-SECT PSL2 W OC INLT		A/R
57.	77441481	HARNESS-TELE RADIO REMOTE SERIES III		1
58.	72063116	WASHER .75 N FLAT H ASTM F436Z	1	22
59.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	1	4
60.	72601817	CAP SCR .75-10X 3.25 HH GR8 Z	1	14
61.	72062108	NUT .50-20 HEX GRC Z TOP LOCK	2	4
62.	72063132	WASHER-FLAT .50 N H ASTM F436	2	4
63.	72602138	STUD .50-20X 2.75 DBL .50-13 GR8 STL	2	4
64.	72601797	WASHER-LOCK 8MM	3	4
65.	72602065	WASHER-FLAT M 8	3	4
66.	72602052	CAP SCR M 8-1.25X 16 HHZ	3	4
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
71.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	5	1
72.	72034479	PLUG-PLSTC .50-13X .50 UNC-2B		2
73.	72053301	COUPLING-GLV .12 SCH 40	5	1
74.	72053508	ZERK-NPT .12	5	4
75.	72060000	CAP SCR .25-20X .50 HH GR5 Z	5	2
76.	72060044	CAP SCR .38-16X .75 HH GR5 Z	5	8
77.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	5	1
78.	72060206	CAP SCR .75-10X 2.00 HH GR8 Z	5	1
79.	72060640	SCR-MACH 10-24X 1.50 RDH	5	2
80.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	5	2
81.	72062093	NUT # 8-32 HEX ZINC	5	2
82.	72062103	NUT .38-16 HEX NYLOCK	5	3
83.	72062104	NUT .25-20 HEX NYLOCK	5	5
84.	72062106	NUT 10-24 HEX NYLOCK	5	7
85.	72063001	WASHER .25 FLAT	5	18
86.	72063003	WASHER .38 FLAT	5	8
87.	72063010	WASHER 1.00 FLAT	5	1
88.	72063035	MACHY BUSHING 1.25X10 GA NR	5	2
89.	72063049	WASHER .25 LOCK	5	2
90.	72063051	WASHER .38 LOCK	5	8
91.	72063116	WASHER .75 N FLAT H ASTM F436Z	5	1
92.	72063132	WASHER .50 FLAT ASTM F436	5	17
93.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	5	2
94.	72066129	RETAINING RING-EXT 1.25 HD	5	2
95.	72601938	BOLT-EYE # 8-32X 1.125	5	1
96.	72601949	CAP SCR .50-13X 1.25 SH ZC	5	2
97.	72602085	BOLT-SHLDR .38X 1.25 (5/16 THDS) SS	5	1
98.	72661543	PIN-QUICK 316-10QP	5	3
99.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	5	3
100.	51395121	HOSE-AA .13 X 13.50 OAL (2-2)	6	1
101.	72532355	ADPTR-M STR/M JIC 6 6	6	1
102.	72532356	ADPTR-M STR/M JIC 8 6	6	4
103.	72532357	ADPTR-M STR/M JIC 6 8	6	1
104.	72532358	ADPTR-M STR/M JIC 8 8	6	3
105.	72532359	ADPTR-M STR/M JIC 10 8	6	2
106.	72532361	ADPTR-M STR/M JIC 8 10	6	1
107.	72532670	ELBOW-M JIC/45/F JIC 8 8	6	1
108..	72532700	ELBOW-M STR/90/M JIC XLG 6 6	6	1
109.	72533583	ELBOW-M STR/45/M JIC 8 6	6	2
110.	72533613	ADPTR-M STR/M JIC 10 6	6	2
111.	93725207	KIT-CABLE GUIDE 9500/14000		1
112.	60144215	COVER-VALVE BANK SIII		1

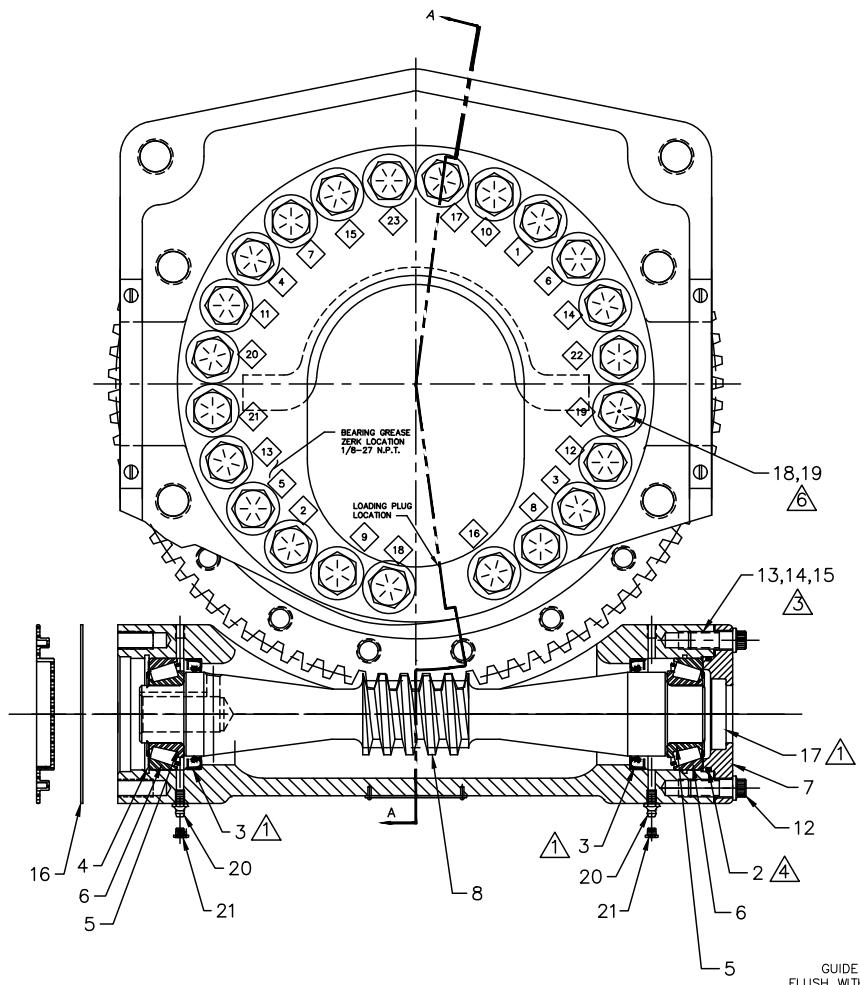
ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
113.	60140840	BRKT-MAST VB 7500-10000L		2
114.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	5	8
115.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
116.	77441537	HARNESS-S3 TELE S-PROP VALVE BANK CERVIS		A/R
117.	72062000	NUT .25-20 HEX		3
118.	60030486	SPACER-A2B BRACKET		2
119.	60140935	GUIDE - CABLE WEAR (WIDE)	111	1
120.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	111	2
121.	60140938	BRKT - CABLE GUIDE (WIDE)	111	1
122.	72062104	NUT .25-20 HEX NYLOCK	111	2
123.	60143076	BRKT-MAST VB 7500-10000L FP		1
124.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
125.	71415691	TUBE ASM-PRESSURE FILTER S3FP LARGE MAST		1
126.	72053767	ELBOW-M STR/90/M JIC 12 12		1
127.	72533623	ELBOW-M STR/90/M JIC 8 12		1
128.	72534898	O-RING EXTENDER 08-08		1
129.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	6	1
130.	72062207	NUT 8-32 HEX NYLOCK		1
131.	72034572	CLAMP-PLASTIC .38 CABLE		1
132.	70735099	HOOK-SWVL POS LOCK BBRG 5TON		1
133.	72063186	WASHER-FLAT .38 N H ASTM F436		4
134.	72602158	CAP SCR .50-13X 1.75 HH GR5 YZ		12
135.	72602160	WASHER- LOCK .50 YZ		12
136.	72060093	CAP SCR HH 1/2-13 UNC - 1.50 GR5 Z		3
137.	72063053	WASHER-LOCK ZINC 1/2		3
138.	71415015	KEEPER-PIN .50		3
139.	60140916	PIN-TYPE NN 2.00X 9.50		1
140.	60140915	PIN-TYPE NN 2.00X13.75		2

REV. DN CN1111

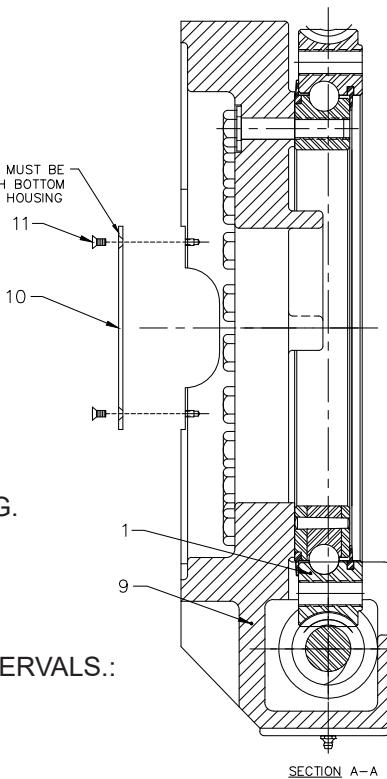
This page left intentionally blank

Gear Rotator, 6025 / 6625 0.75 Bolts (71056577)



71056577 - CONTINUED

GUIDE MUST BE FLUSH WITH BOTTOM OF HOUSING

**NOTE:**

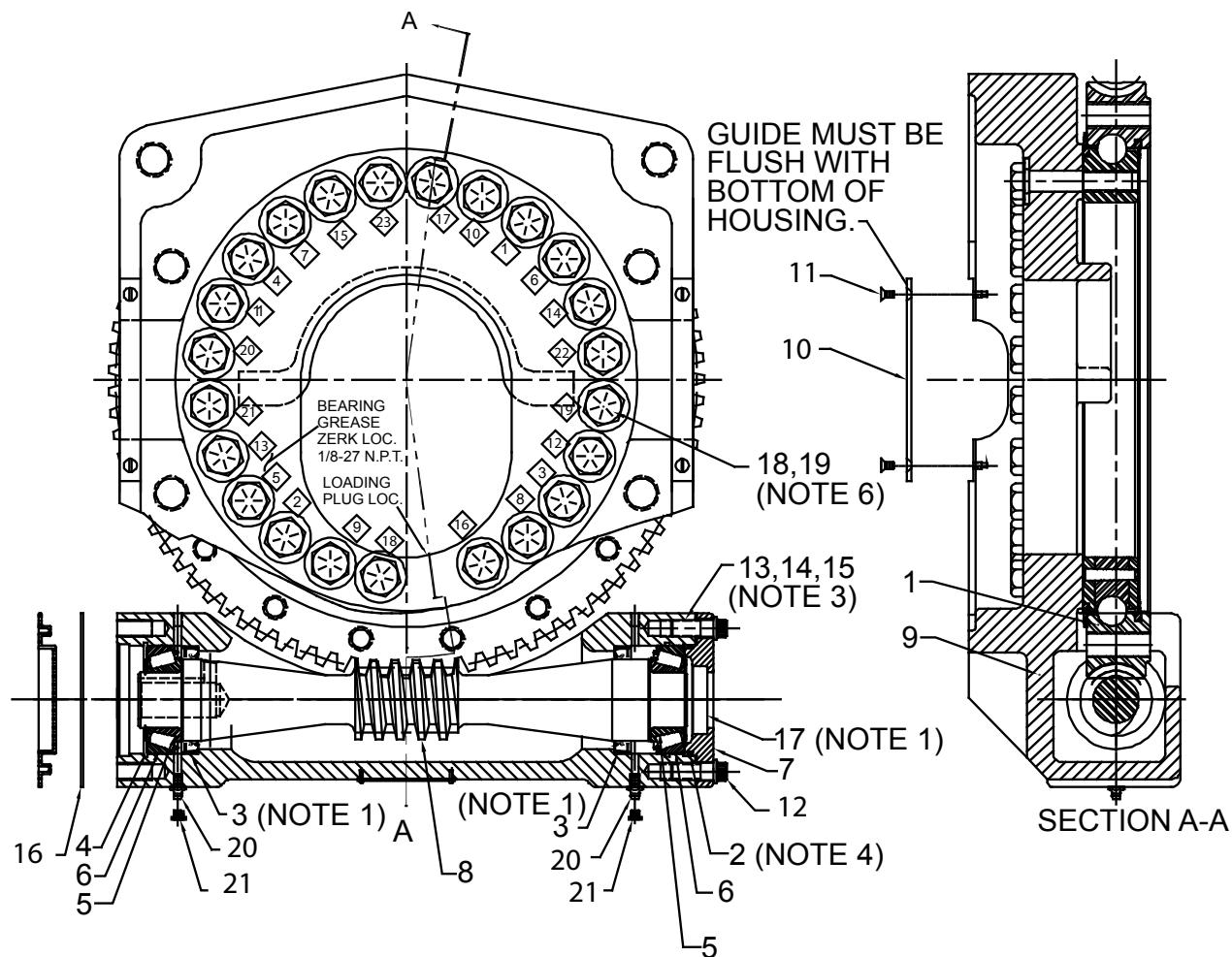
1. INSTALL SEALS 3 & 17 WITH LOCTITE PLASTIC GASKET (54931) ON O.D. LUBRICATE SEAL SURFACE BEFORE
2. ASSEMBLY. PACK CAVITIES WITH EPO GREASE.
3. SHIM TO OBTAIN .00 / .004 END PLAY ON WORM SHAFT.
4. LUBRICATE ORING 2 WITH WORM GEAR OIL BEFORE INSTALLING.
5. SET BACKLASH BETWEEN WORM AND ROTATION BEARING .005-.012 AND TIGHTEN BOLTS NUMBER 1, 2, 3, 4.
6. TIGHTEN 3/4-10UNC GRADE 8 MOUNTING BOLTS AS FOLLOWS:

1. TIGHTENING MUST BE PROGRESSIVE AND AT 180 DEGREE INTERVALS.: FIRST INTERVAL IS AT 130 FT/LB.
SECOND INTERVAL IS AT 280 FT/LB.
THIRD INTERVAL IS AT 380 FT/LB.
2. TIGHTEN BOLTS IN ORDER SHOWN IN.
3. DO NOT USE LOCTITE ON MOUNTING BOLTS.

71056577 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	71056607	GEAR BEARING-TURNTABLE FOR 71056577	1
2.	70395074	O-RING-PARKER #2-234	1
3.	70395076	SEAL-NATL	2
4.	70145786	RING-SNAP SPRXL RRN-315	1
5.	70055271	BRG-CUP TIMKEN 26830	2
6.	70055281	BRG-CUP TIMKEN 26830	2
7.	70145501	RETAINER-BEARING 3816	1
8.	70056550	WORM 170-10024-1	1
9.	70146322	HOUSING-MAIN 6625	1
10.	70145848	GUIDE-HOSE (170-10031-1)	1
11.	72601754	SCR SLT FH 10-24 NC X .38	2
12.	72601733	CAP SCR-FERRY 1/2NCX1.25 3816	4
13.	73145506	SHIM-METAL (.005 THK) 3816	2
14.	73145505	SHIM-METAL (.015 THK) 3816	1
15.	73145504	SHIM-METAL (.030 THK) 3816 170-10010-1	1
16.	76039295	GASKET-GEA19 008-10056-1 SAME AS 76395075	1
17.	72533604	PLUG=EX CUP DORM#555-069	1
18.	72601817	CAP SCR .75-10X 3.25 HH GR8 Z	23
19.	72063116	WASHER-FLAT .75 N H ASTM F436 Z	23
20.	72533605	ZERK-STR THD .25-28 STR	2
21..	72533439	PLUG-ALEMITE 328224	2

REV. C CN1194

Gear Rotator, Primary (71056577)

71056577 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	71056607	GEAR BEARING-TURNTABLE FOR 71056577	1
2.	70395074	O-RING-PARKER #2-234	1
3.	70395076	SEAL-NATL	2
4.	70145786	RING-SNAP SPRXL RRN-315	1
5.	70055271	BRG-CUP TIMKEN 26830	2
6.	70055281	BRG-CUP TIMKEN 26830	2
7.	70145501	RETAINER-BEARING 3816	1
8.	70056550	WORM 170-10024-1	1
9.	70146322	HOUSING-MAIN 6625	1
10.	70145848	GUIDE-HOSE (170-10031-1)	1
11.	72601754	SCR SLT FH 10-24 NC X .38	2
12.	72601733	CAP SCR-FERRY 1/2NCX1.25 3816	4
13.	73145506	SHIM-METAL (.005 THK) 3816	2
14.	73145505	SHIM-METAL (.015 THK) 3816	1
15.	73145504	SHIM-METAL (.030 THK) 3816 170-10010-1	1
16.	76039295	GASKET-GEA19 008-10056-1 SAME AS 76395075	1
17.	72533604	PLUG=EX CUP DORM#555-069	1
18.	72601817	CAP SCR .75-10X 3.25 HH GR8 Z	23
19.	72063116	WASHER-FLAT .75 N H ASTM F436 Z	23
20.	72533605	ZERK-STR THD .25-28 STR	2
21..	72533439	PLUG-ALEMITE 328224	2
REV. B CN1111			

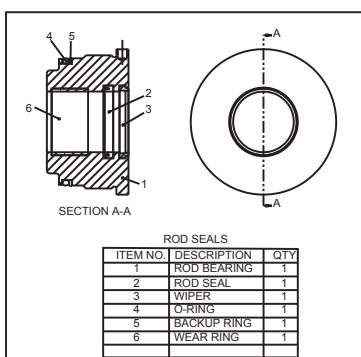
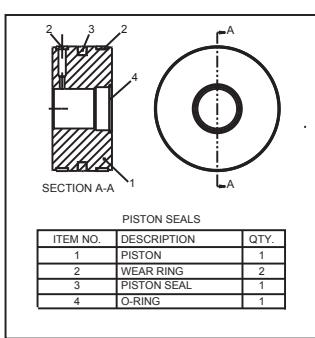
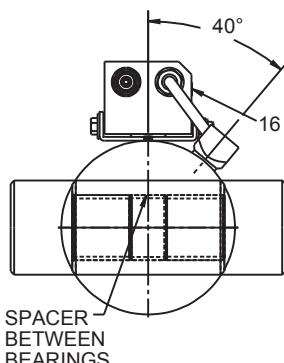
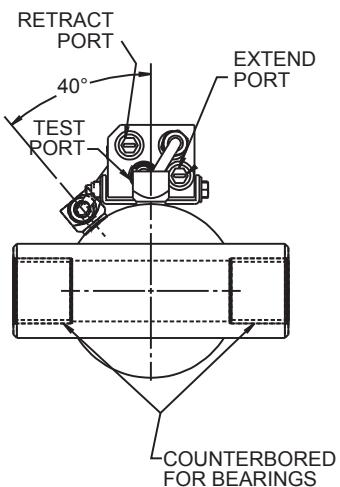
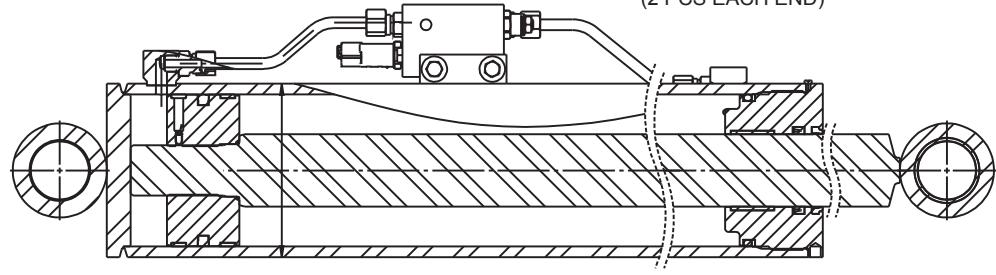
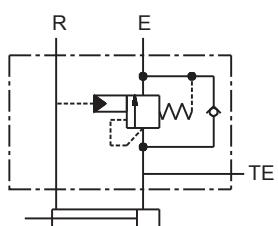
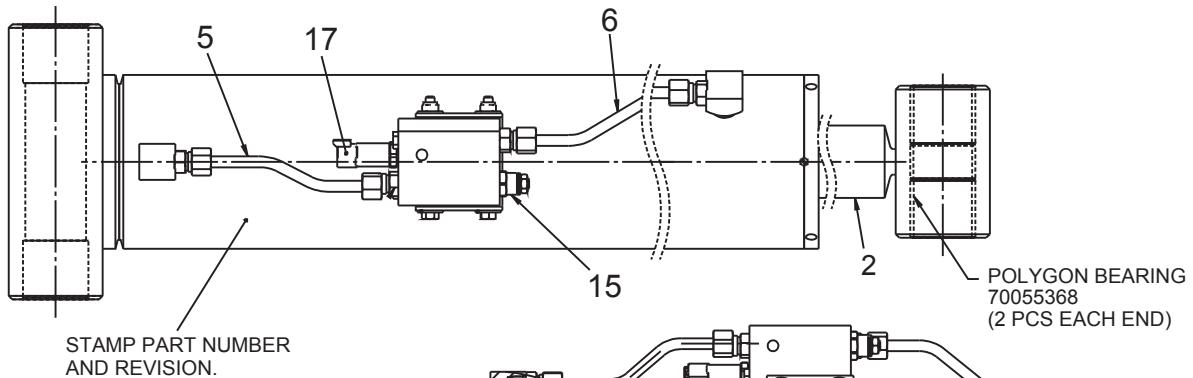
NOTES:

1. INSTALL SEALS #3 & # 17 WITH LOCTITE PLASTIC GASKET ON O.D. LUBRICATE SEAL SURFACE BEFORE ASSEMBLY.
2. PACK CAVITIES WITH EPO GREASE.
3. SHIM TO OBTAIN 0.000 / 0.004" END PLAY ON WORM SHAFT.
4. LUBRICATE O-RING #2 WITH WORM GEAR OIL BEFORE INSTALLING.
5. SET BACKLASH BETWEEN WORM AND ROTATION BEARING 0.005-0.012". TIGHTEN BOLTS NUMBERED 1, 2, 3, 4.
6. TIGHTEN 3/4 - 10 UNC GRADE 8 MOUNTING BOLTS AS FOLLOWS:
 - TIGHTEN PROGRESSIVELY AND AT 180° INTERVALS.
 - FIRST INTERVAL AT 130 FT-LB.
 - SECOND INTERVAL AT 280 FT-LB.
 - THIRD INTERVAL AT 380 FT-LB.
 - TIGHTEN BOLTS IN ORDER SHOWN IN DIAMONDS.
7. DO NOT USE LOCTITE ON MOUNTING BOLTS.

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.

Lower Cylinder (51722956)

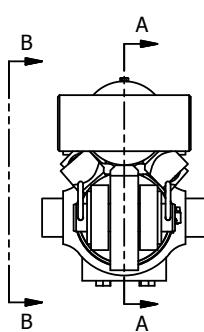
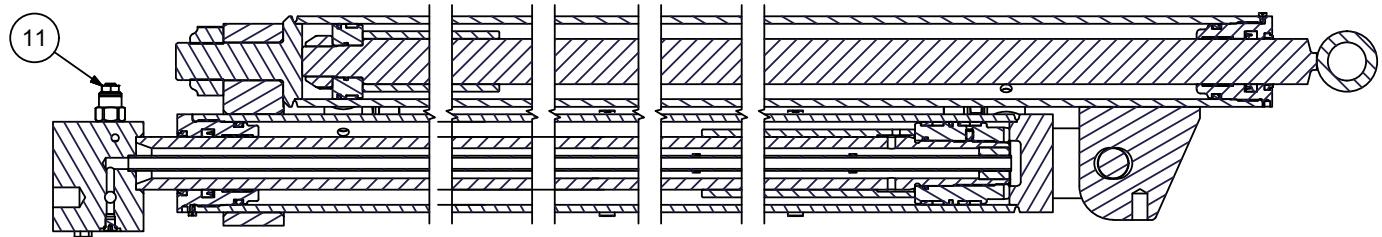
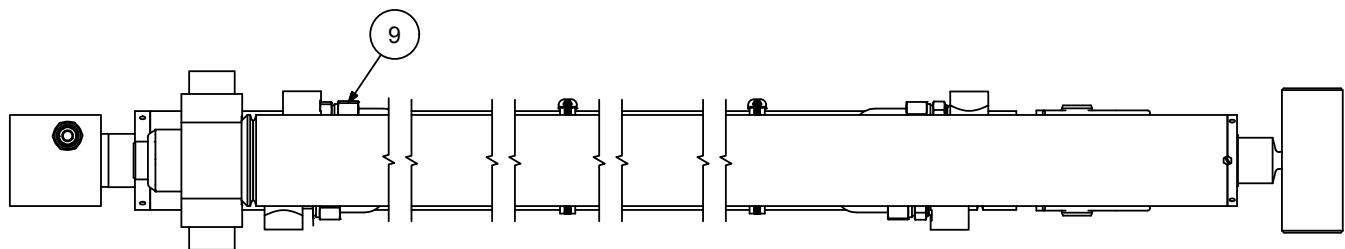


51722956 PARTS LIST

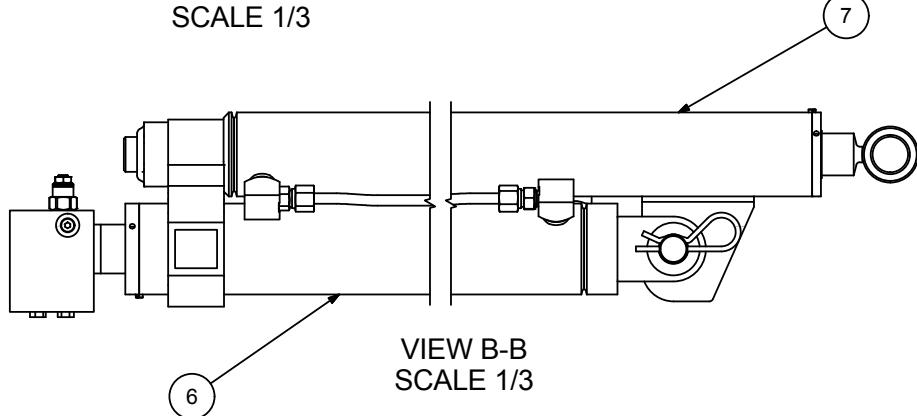
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	52723921	CASE	1
2.	52723922	ROD ASSEMBLY	1
3.	71414687	PISTON ASSEMBLY	1
4.	71414688	ROD BEARING ASSEMBLY	1
5.	71414693	TRANSFER TUBE	1
6.	71414694	TRANSFER TUBE	1
7.		FITTING ADAPTER	4
8.	73540444	VALVE BLOCK ASSEMBLY	1
9.		LOCKING SCREW	1
10.		5/16"-18 X 4.00 HEX 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	CBAL VALVE	1
16.		STEEL SAE O-RING PLUG #4	1
17.	77041866	PRESSURE TRANSDUCER	1
REF	94399133	SEAL KIT	

NOTES:

1. SEE PART NUMB RAND 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-PURPO 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 (1.72-2.5 KG-M) AND PISTON TO 200-300 FT-LB (27.6-41.5 KG-M).
5. USE BLUUE 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 #8-32X.25" SET SCREW) IN THE HOLE UNTIL SEATED.

Extension Cylinder (51723605)

SECTION A-A
SCALE 1/3



VIEW B-B
SCALE 1/3

51723605 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
6.	51723930	CYL-2.75/1.75 75.00S 120.25CC C	
7.	51723932	CYL-2.5/1.5 75.00S 123.93CC C	
9	71414721	TUBE LINE	
11.	73540565	VALVE-CBAL 15 GPM 4.5:1 T11-A @4000 PSI	
	94399162	SEAL KIT-51723927-51723930	
	94399160	SEAL KIT-51723931-51723932	
REV. D CN1111			

NOTES:

1. TEST CYLINDER AT 3500 PSI.
2. TORQUE NUT #2 (1.25-12 UNF) TO 810.7 FT-LB.
3. PAINT BLACK SEMI-GLOSS.INSTALL HOSE CLAMPS AFTER PAINT.

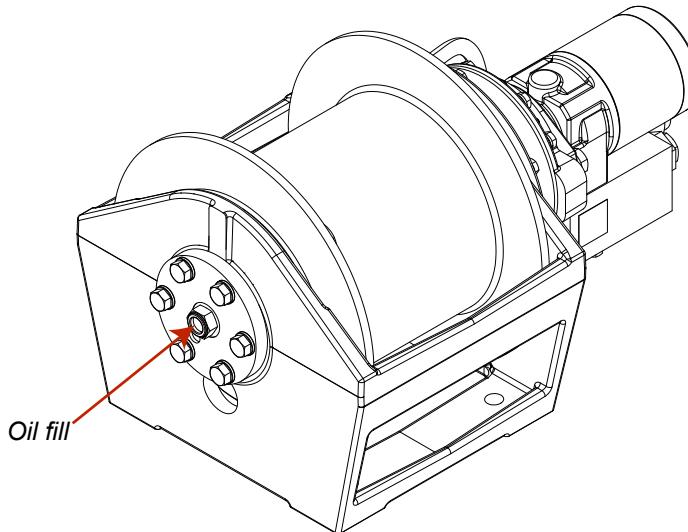
This page left intentionally blank

Winch Oil Specifications

The use of proper gear oil and regular preventive maintenance will help extend gear train life and reliable winch brake performance.

OIL CHANGE FREQUENCY

Gear oil should be changed after the first 100 hours or 90 days of machine operation, and then every 1000 hours or 12 months, whichever occurs first. Gear oil should also be changed whenever the ambient temperature changes significantly, and an oil from a different temperature range would be more appropriate. Check and drain the oil using the fill plug in the winch. The winch should be at least 1/2 full.



WARM-UP PROCEDURE

Warming up the winch is recommended at start-up and at ambient temperatures below 40 °F (4 °C). Run the prime mover at its lowest recommended RPM with the hydraulic winch control valve in neutral, allowing sufficient time to warm up the system. Operate the winch at low speeds, forward and reverse, several times to prime all lines with warm hydraulic oil and to circulate gear oil through the planetary gear sets.

LUBRICANTS

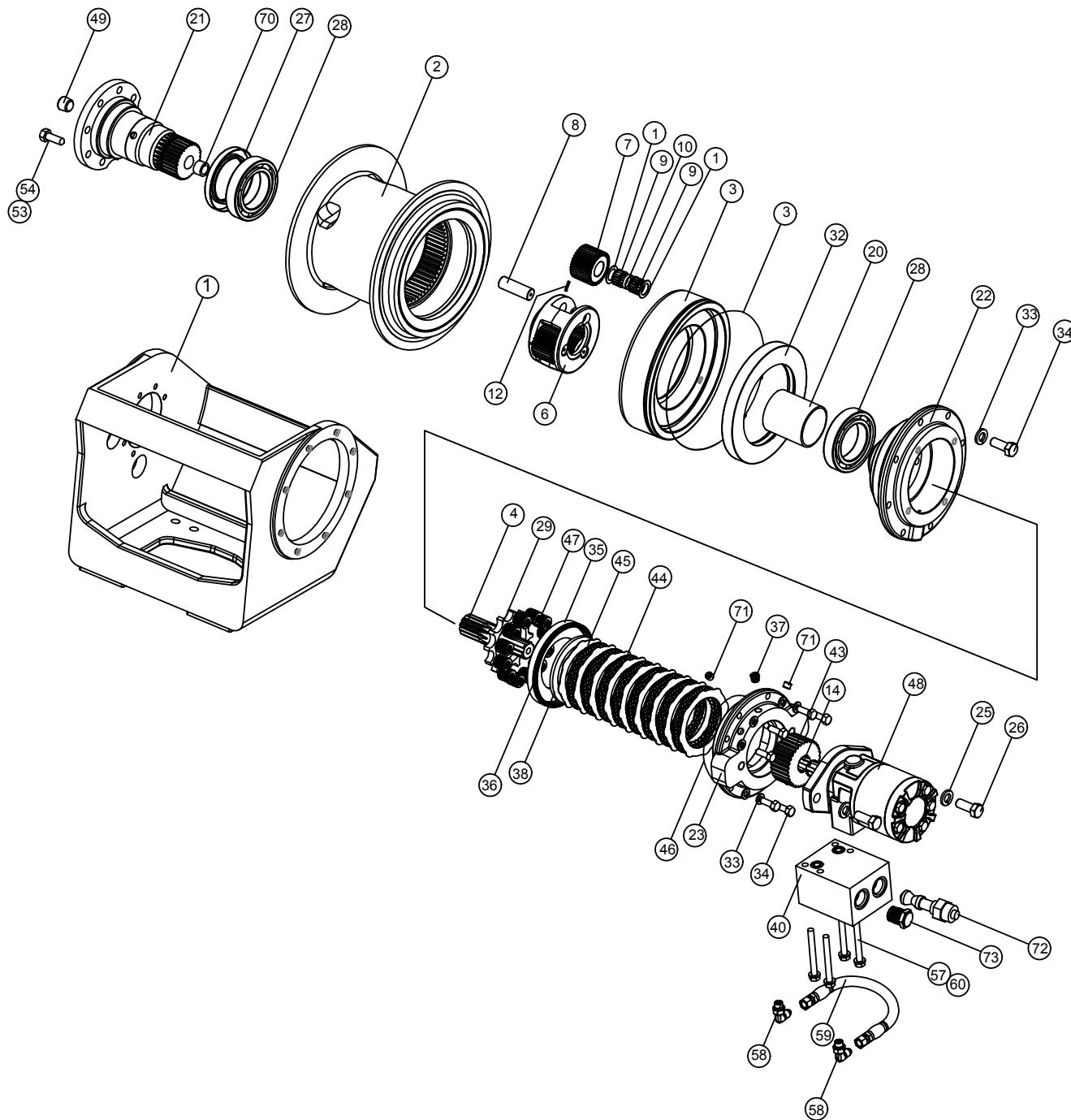
The following lubricants are recommended based on ambient temperature. Other lubricants may work equally as well. We suggest you work with your lubricant supplier to find an equivalent product if needed. The winch is initially filled with Mobilgear 600 XP150 or equivalent.

PREVAILING AMBIENT TEMPERATURE	RECOMMENDED LUBRICANT
25 -130 °F (-4 - 54 °C)	MOBILGEAR 600 XP220 OR EQUIVALENT (AGMA 5 EP, ISO VG 200)
10 - 100 °F (-12 - 38 °C)	MOBILGEAR 600 XP150 OR EQUIVALENT (AGMA 4 EP, ISO VG 150) NOTE: AVOID USING MOBILGEAR 600 XP150 ABOVE 80 °F (27 °C) IN SEVERE APPLICATIONS SUCH AS OFFSHORE LIFTING, SUSTAINED FAST DUTY CYCLES, OR FREQUENT LIFTING.
-25 - 130 °F (-32 - 54 °C)	MOBIL SHC 150 SYNTHETIC OR EQUIVALENT

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

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

Winch Parts - 6000 LB Line Pull (70570771)



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

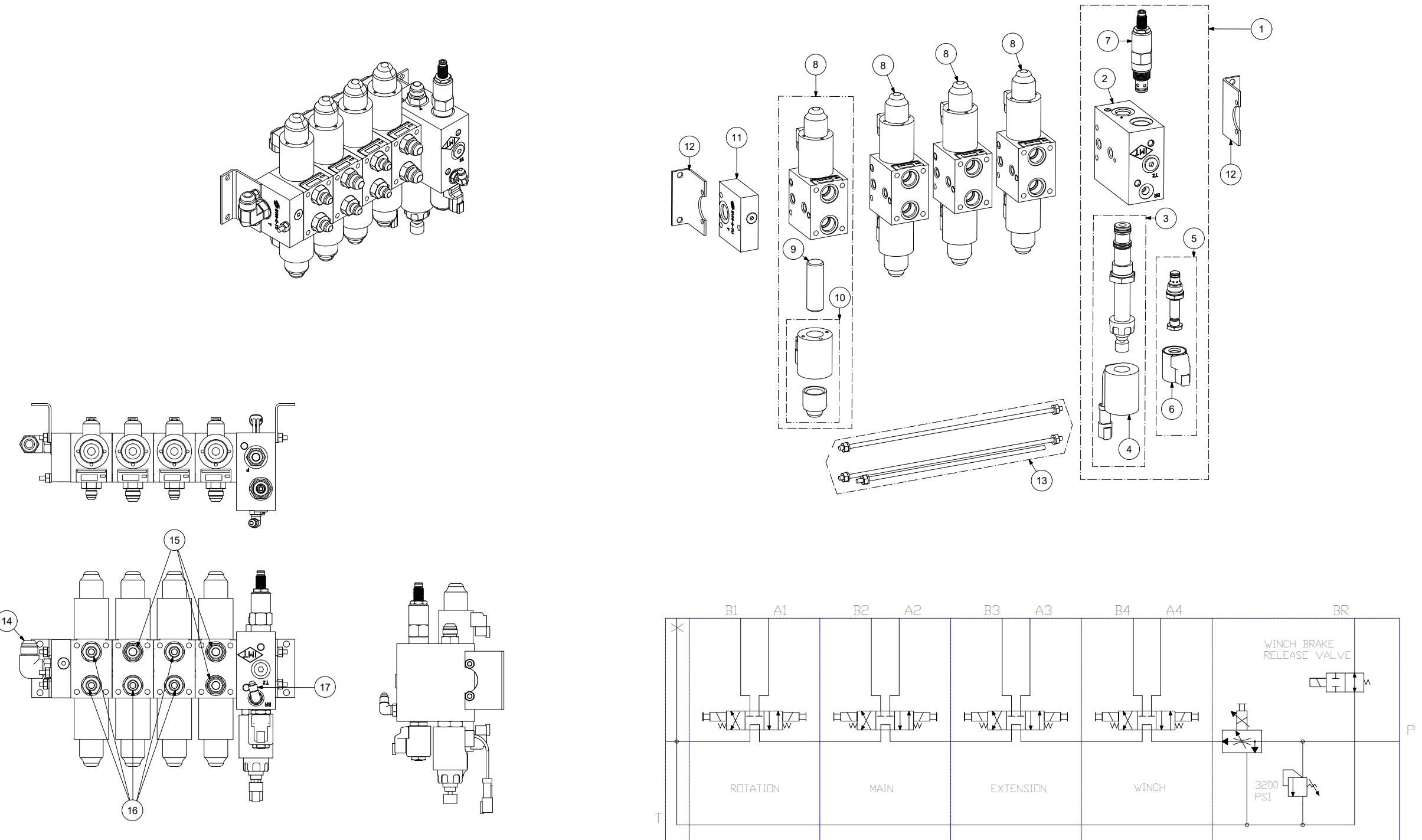
**IOWA MOLD TOLLING CO., INC.
TECHNICAL SUPPORT TEAM
TELEPHONE: 800-554-4421**

70570771 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.		BASE	1
2.		CABLE DRUM	1
3.		CABLE DRUM CLOSURE	1
4.		SUN GEAR	1
6.		OUTPUT PLANET CARRIER	1
7.		OUTPUT PLANET GEAR	3
8.		OUTPUT PLANET GEAR SHAFT	3
9.		ROLLER BEARING	6
10.		BEARING SPACER	3
11.		THRUST WASHER	6
12.		ROLLPIN	3
14.		RETAINING RING	1
20.		SPACER, CARRIER	1
21.		BEARING SUPPORT	1
22.		BRAKE CYLINDER	1
23.		MOTOR GASKET (NOT SHOWN) (PART OF #74 SEAL KIT)	1
24.	71411826	LOCKWASHER (1/2 Z)	1REF
25.		CAPSCREW (1/2 NC X 1-1/4 G8 Z)	2
26.		OIL SEAL (PART OF #74 SEAL KIT)	2
27.	71411143	BALL BEARING	1REF
28.		SPRING LOCATOR	2
29.		O-RING (PART OF #74 SEAL KIT)	1
31.		OIL SEAL (PART OF #74 SEAL KIT)	1REF
32.		LOCKWASHER (5/16 Z)	1REF
33.		CAPSCREW (5/16 NC X 1 G8 Z)	6
34.		SPRING PLATE	6
35.		U-CUP SEAL (PART OF #74 SEAL KIT)	1
36.		VENT PLUG	1REF
37.		BRAKE PLATE SPACER	1
38.	73540627	BRAKE VALVE ASM (INCL 72 & 73)	1
40.		BRAKE COUPLING	1
43.	71411147	FRICTION DISK	1
44.	71411827	BRAKE DISK	8
45.		O-RING (PART OF #74 SEAL KIT)	9
46.	71411146	SPRING	1REF
47.	73511057	HYD MOTOR	12
48.	73511057	HYD MOTOR	1
49.		PLUG (PART OF #74 SEAL KIT)	1
50.		NAMEPLATE FOR IMT (NOT SHOWN)	1
51.		DRIVE SCREW (NOT SHOWN)	4
53.		LOCKWASHER (7/16 Z)	6
54.		CAPSCREW (7/16 NC X 1 G8 Z)	6
55.	71411150	CABLE WEDGE (NOT SHOWN)	1
57.		CAPSCREW (5/16 NC X 3 G8 Z)	4
58.		ELBOW FITTING	2
59.		HOSE ASSY	1
60.		WASHER, HARDENED (5/16 Z)	4
70.		SUN GEAR THRUST BUTTON	1
71.		PIPE PLUG	1
72.	73540620	VALVE CART-CBAL FOR WINCH VALVE 73540627	1
73.	73540628	VALVE CART-CHK FOR WINCH VALVE 73540627	1
74.	94744147	SEAL KIT (INCLUDES ITEMS #24,27,31,32,36,46 & 49)	1

REV. E CN742

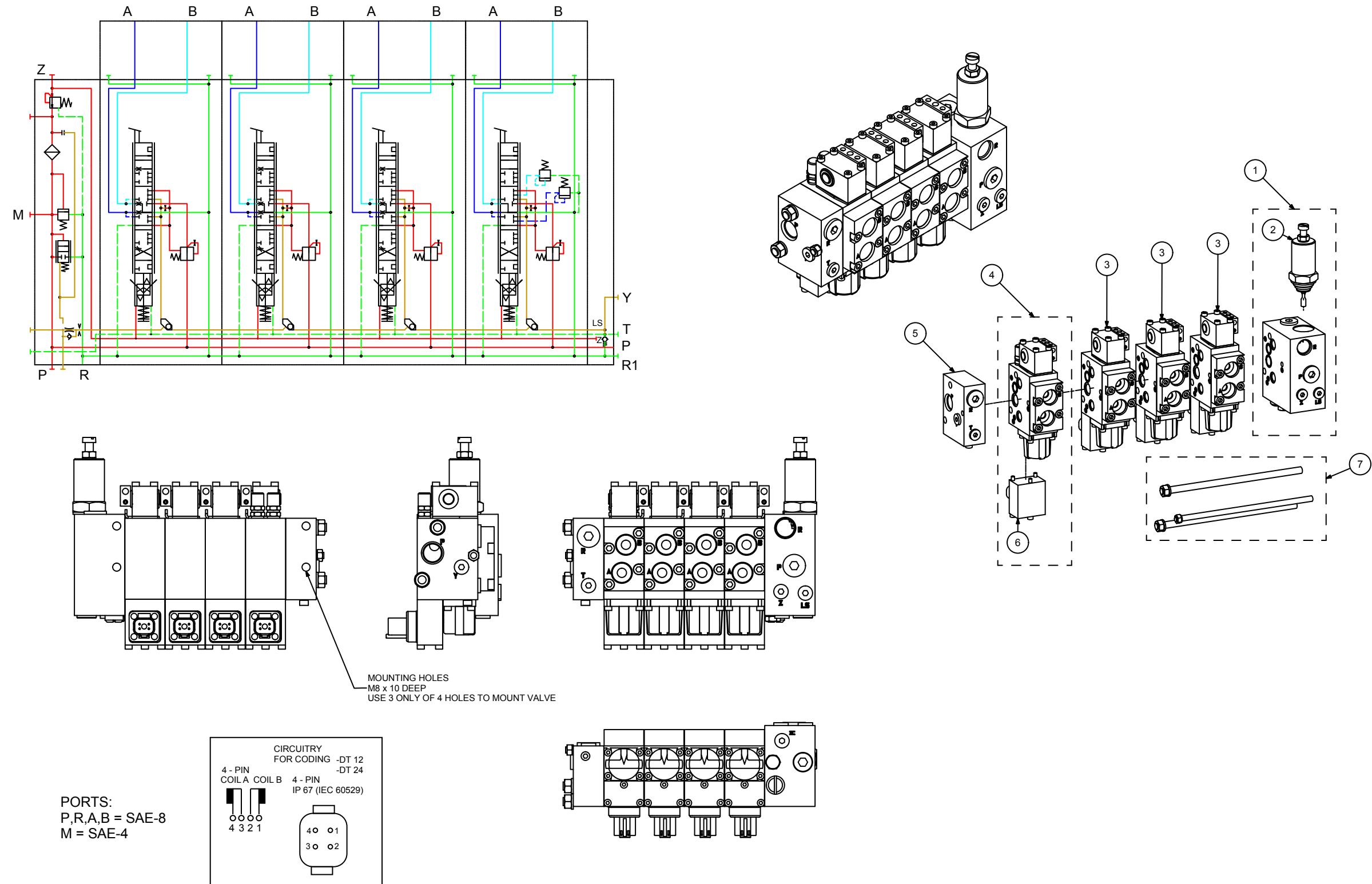
Valve Bank - Single Proportional (73734472)



73734472 PARTS LIST

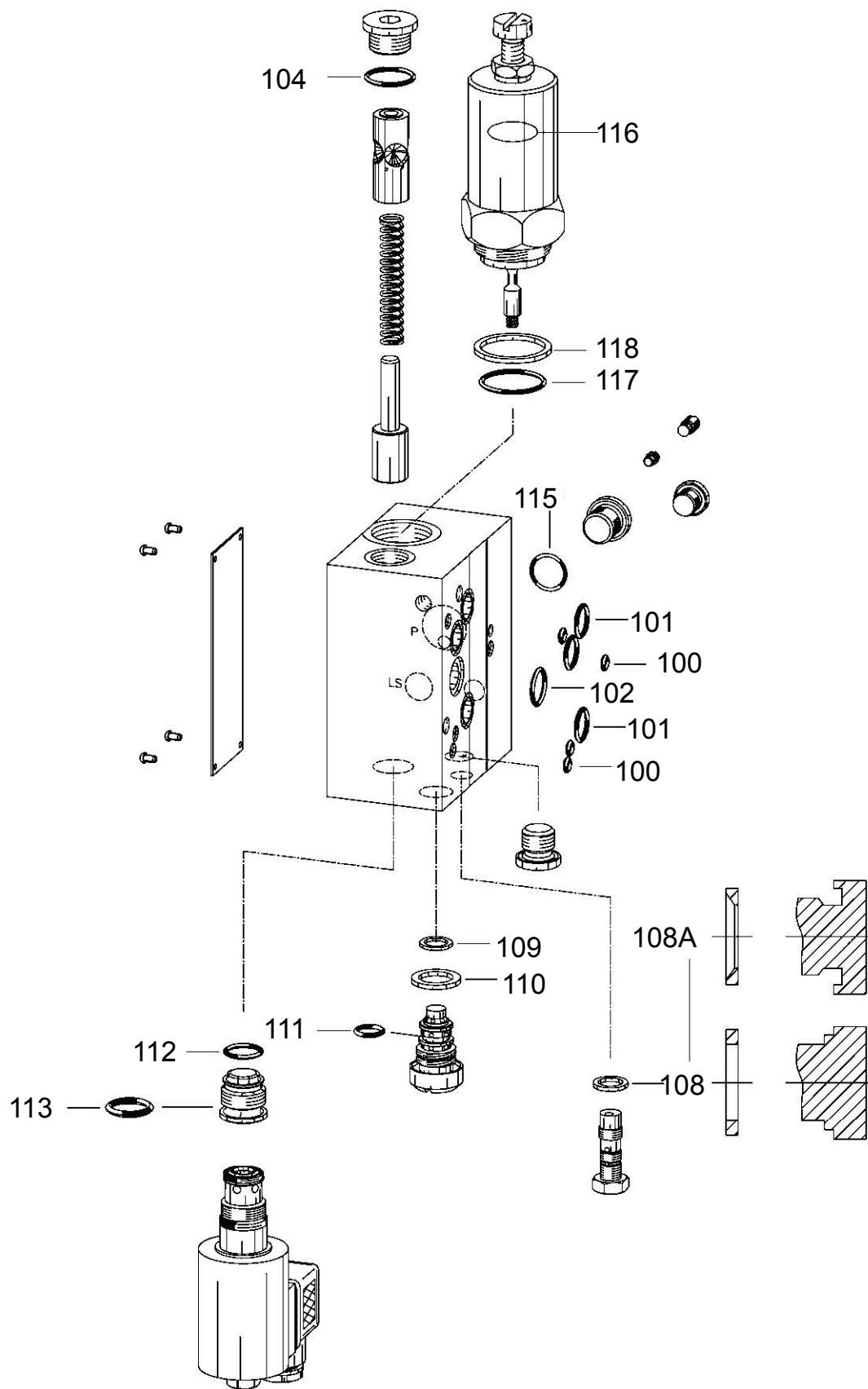
ITEM NO.	PARTS NO.	DESCRIPTION	QTY.
1.	73540617	SECT-BV18 INLET ASM S3SP W RELIEF @ 3200	1
2.	73540394	SECT-BV18 INLET BODY S3SP	1
3.	73540252	VALVE-CART-P FLOW CTRL 12 VDC W MNL OVRD	1
4.	73540253	COIL-FOR 73540252 12VDC DEUTSCH	1
5.	73540397	VALVE-BRAKE RELEASE NO 12VDC DEUTSCH	1
6.	73540256	COIL-S 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	BRKT-MOUNTING EXTRA LONG	
12.	70145830	BRKT-MOUNTING EXTRA LONG	1
13.	73540618	TIE ROD KIT-BV18 4-SECTION	2
14.	72533507	ELBOW-M STR/90/M JIC 8 10	1
15.	72532358	ADPTR-M STR/M JIC 8 8	1
16.	72532356	ADPTR-M STR/M JIC 8 6	4
17.	72053758	ELBOW-M STR/90/M JIC 4 4	5
REV. E			1

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			

Connection Block Seal Kit for 73734727 (94399213)

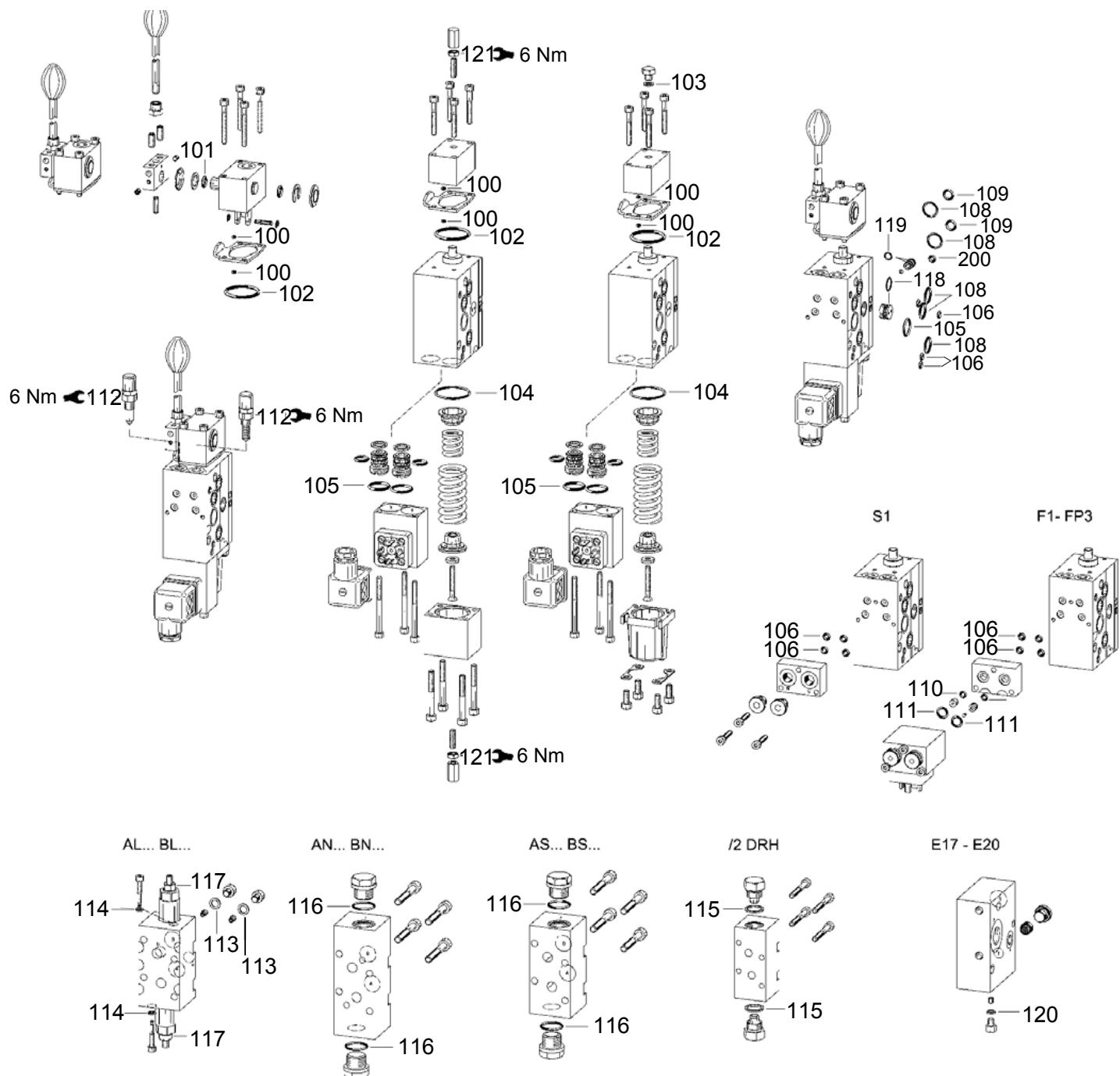
94399213 PARTS LIST

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

NOTE:

THESE SEALS ARE ALL PART OF 94399213, AND CANNOT BE PURCHASED INDIVIDUALLY.

Seal Kit for 73734727 (94399214)



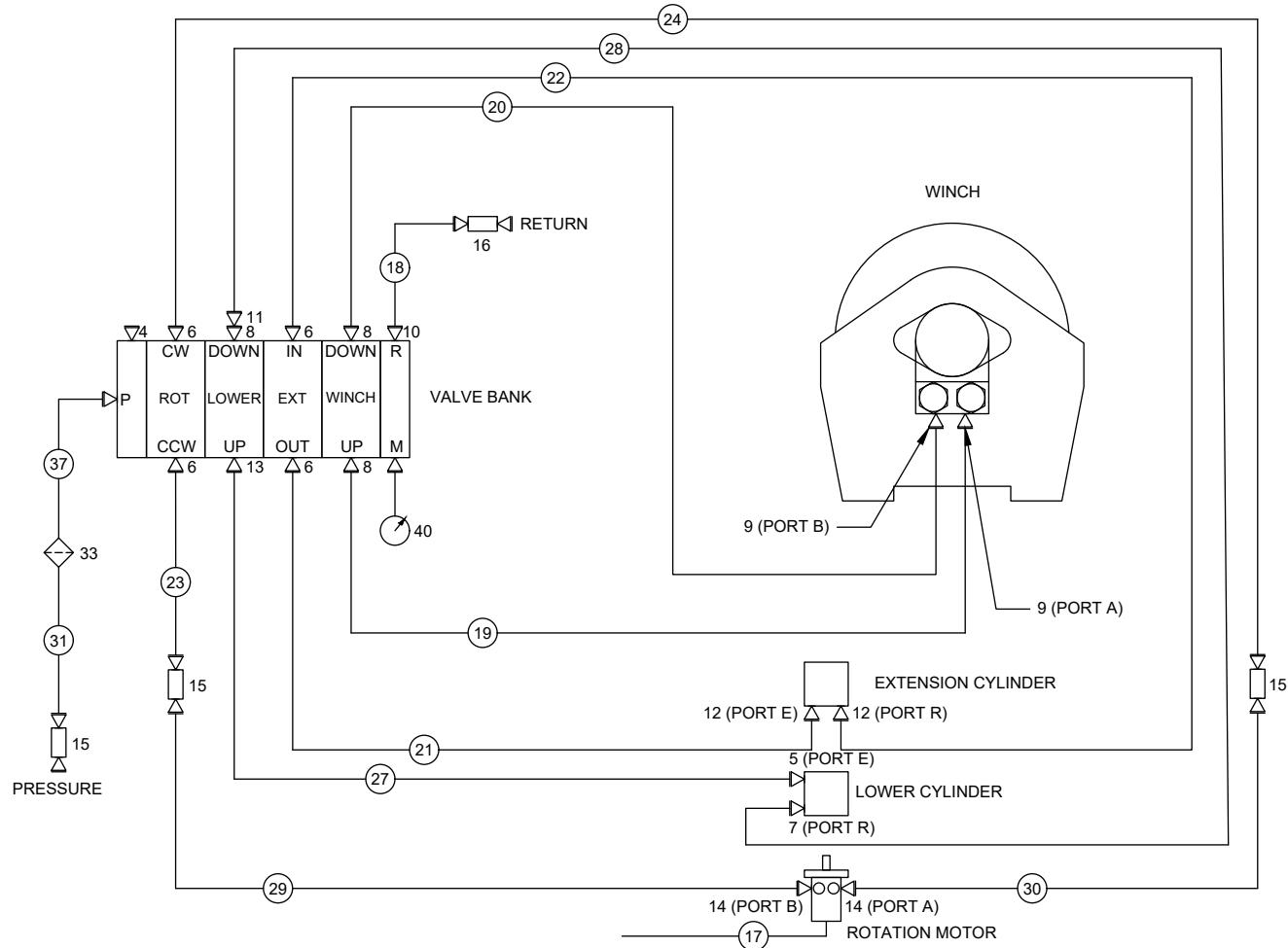
94399214 PARTS LIST

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

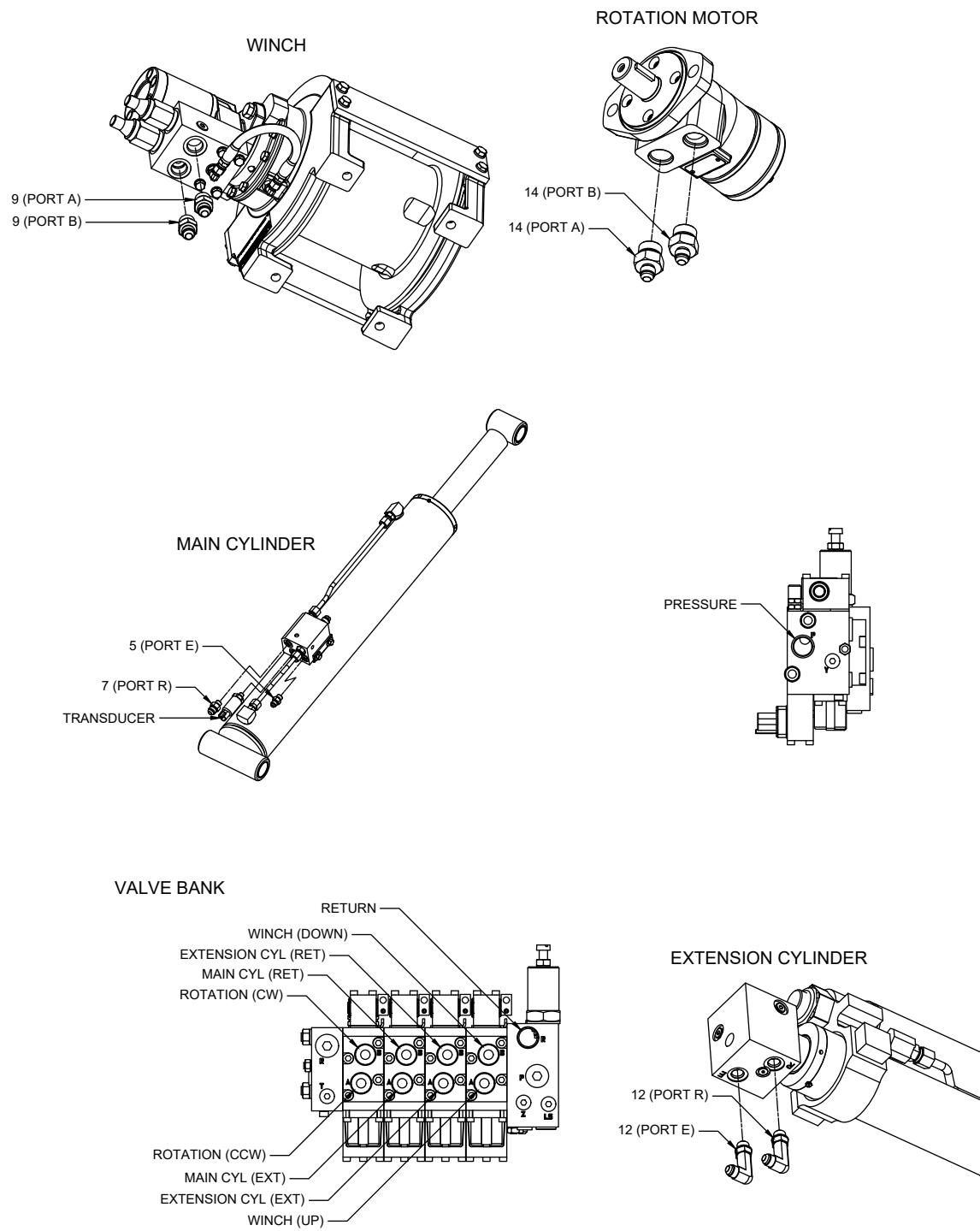
NOTE:

THESE SEALS ARE ALL PART OF 94399214, AND CANNOT BE PURCHASED INDIVIDUALLY.

HYD A40-60 Series III (99905018)

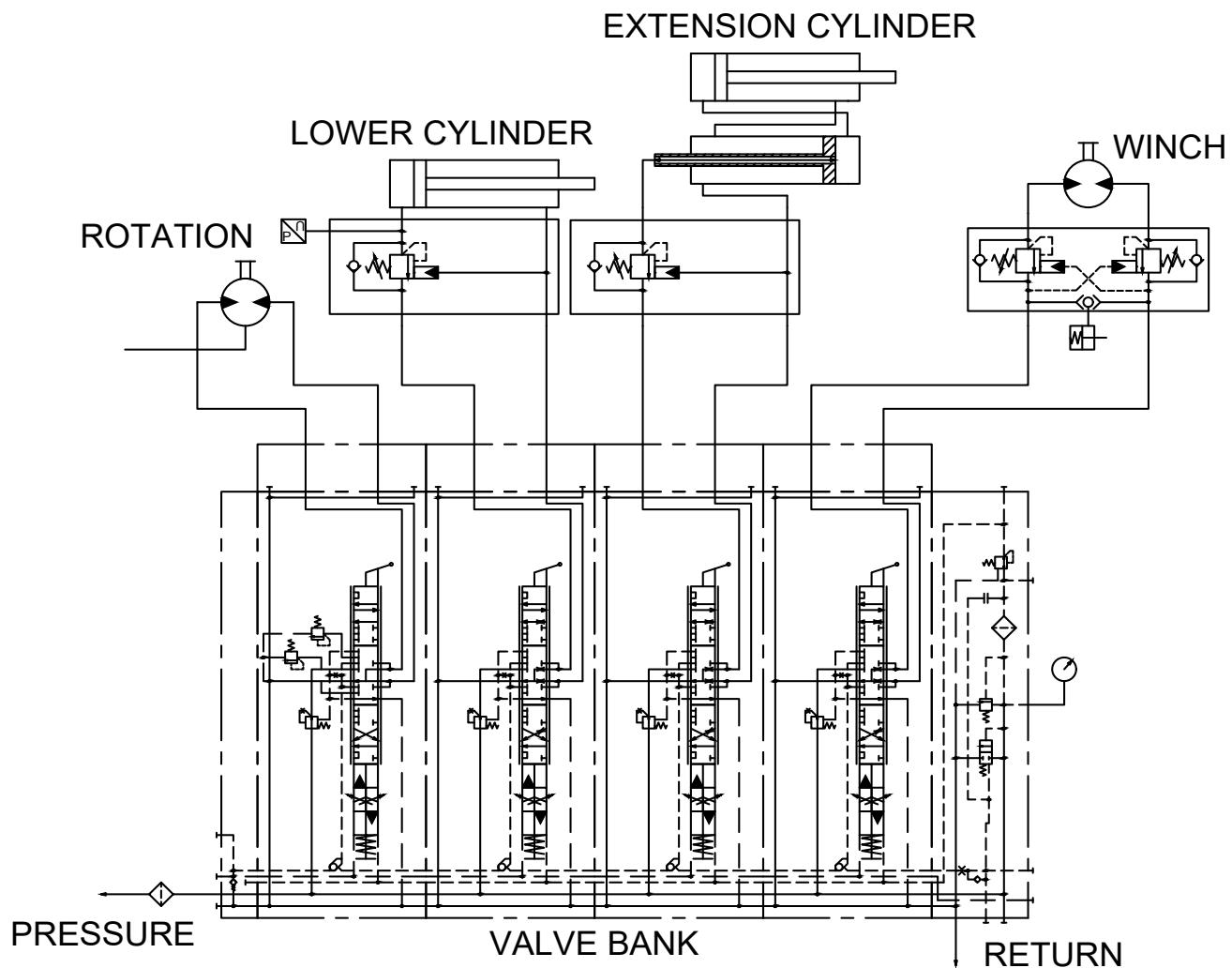


HYD A40-60 Series III (99905018)



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.

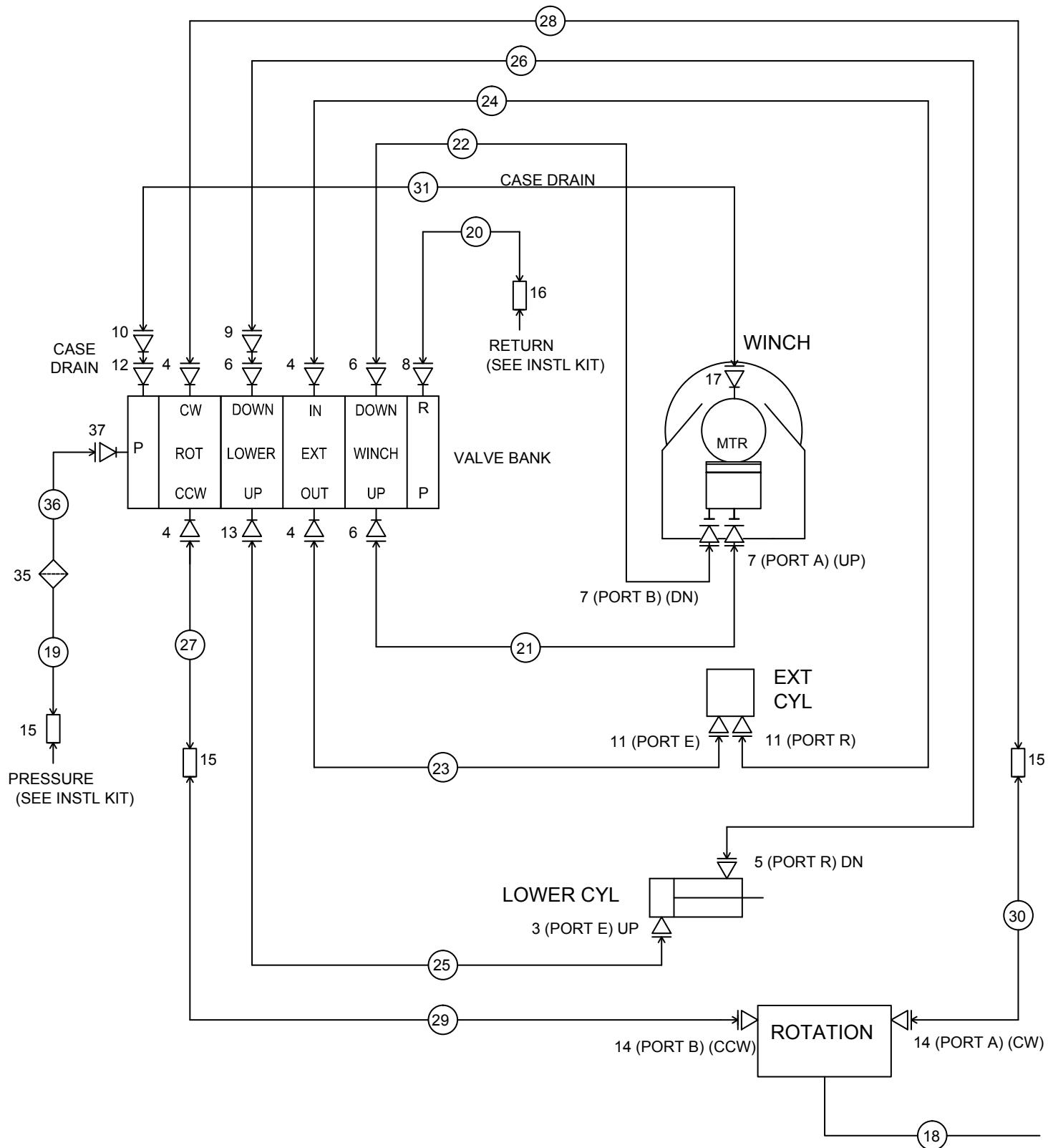
HYD A40-60 Series III (99905018)

99905018 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91726825	KIT-HYD BG4-BG6 SERIES III FP	REF	1
2.	91725678	KIT-PRESSURE FILTER S3FP LARGE MAST	REF	1
3.	73734727	VALVE BANK-4-SECT PSL2 W OC INLT		1
4.	72532686	PLUG-STR SOC HD STL 8 (.75 THD)	1	1
5.	72532355	ADPTR-M STR/M JIC 6 6	1	1
6.	72532356	ADPTR-M STR/M JIC 8 6	1	4
7.	72532357	ADPTR-M STR/M JIC 6 8	1	1
8.	72532358	ADPTR-M STR/M JIC 8 8	1	4
9.	72532359	ADPTR-M STR/M JIC 10 8	1	2
10.	72532361	ADPTR-M STR/M JIC 8 10	1	1
11.	72532670	ELBOW-M JIC/45/F JIC 8 8	1	1
12.	72532700	ELBOW-M STR/90/M JIC XLG 6 6	1	2
13.	72533583	ELBOW-M STR/45/M JIC 8 6	1	1
14.	72533613	ADPTR-M STR/M JIC 10 6	1	2
15.	72533648	SWIVEL-M JIC/90/M JIC 8 8	1	3
16.	72534412	SWIVEL-M JIC/90/M JIC 10 10	1	1
17.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	1	1
18.	51397080	HOSE-FJ .62 X 30.00 (10-10) 100R17	1	1
19.	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1	1
20.	51397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1	1
21.	51396886	HOSE-FZ .38 X 25.00 (6-6) 100R17	1	1
22.	51396887	HOSE-FJ .38 X 24.50 (6-6) R10017	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.	51399077	HOSE-FJ .38 X 29.00 (6-6) 100R17	1	1
28.	51399463	HOSE-FZ .50 X 30.00 (8-8) 100R17	1	1
29.	51399228	HOSE-FJ .38 X 18.00 (8-6) 100R17	1	1
30.	51399229	HOSE-FJ .38 X 22.00 (8-6) 100R17	1	1
31.	51399890	HOSE-FJJ .50 X 40.00 (8-8) 100R17	1	1
32.	72533003	ADPTR-M STR/M JIC 8 8 XLG	1	1
33.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12	2	1
34.	72532360	ADPTR-M STR/M JIC 12 8	2	1
35.	72053767	ELBOW-M STR/90/M JIC 12 12	2	1
36.	72533623	ELBOW-M STR/90/M JIC 8 12	2	1
37.	71415691	TUBE ASM-PRESSURE FILTER S3FP LARGE MAST	2	1
38.	72534898	O-RING EXTENDER 08-08 1.75	2	1
39..	60350105	SLEEVE-HOSE VELCRO CLOSURE 4in DIA		1
40	73050225	GAUGE-5000 PSI 2.5IN CB MOUNT -4 MORB		1

REV. L CN1155

Hydraulic Schematic Fully Proportional (99905018)



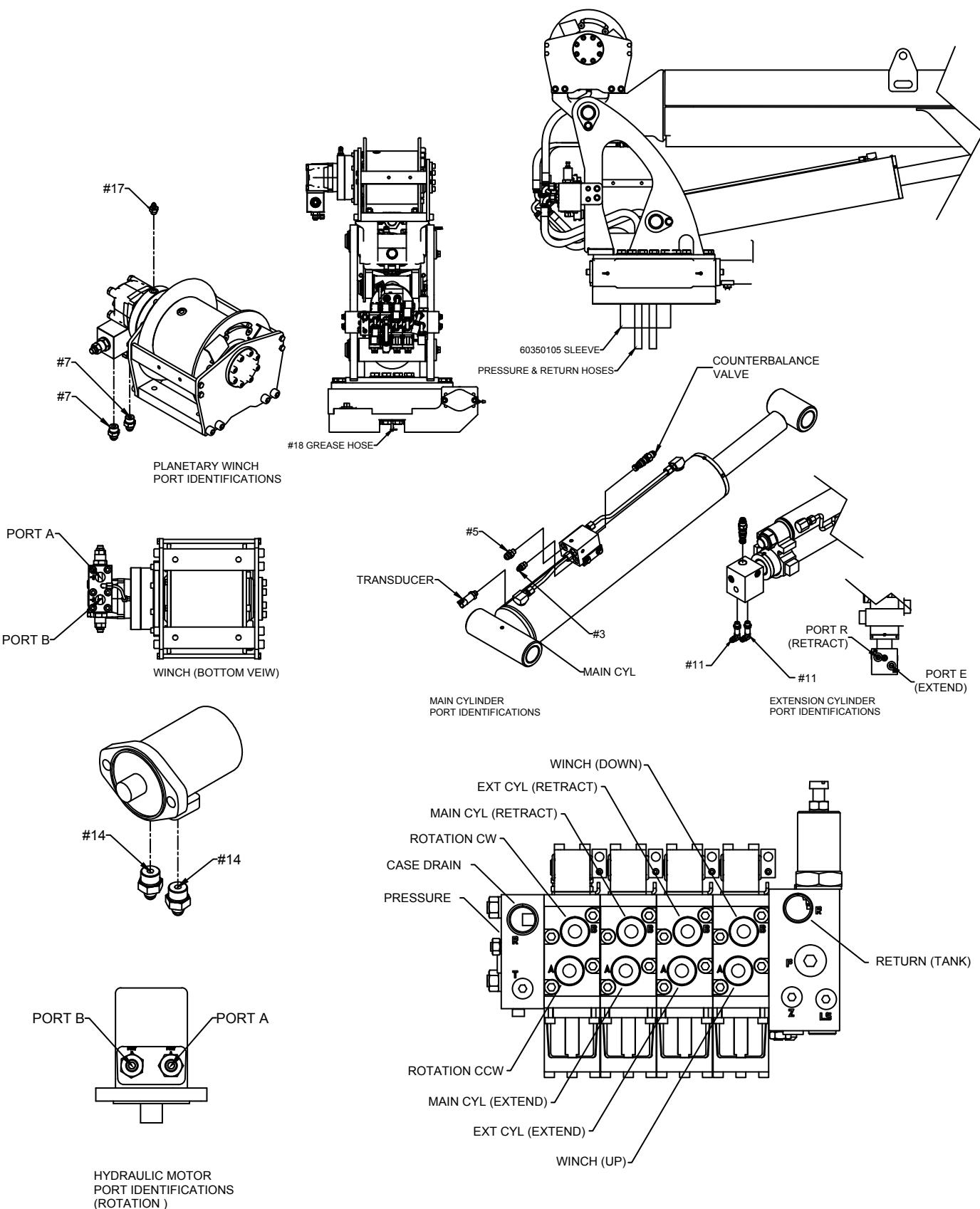
99905018 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91723601	KIT-HYD A40-60 SERIES IIIZ		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	4
5.	72532357	ADPTR-M STR/M JIC 6 8	1	1
6.	72532358	ADPTR-M STR/M JIC 8 8	1	3
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.	72532690	ELBOW-M JIC/90/F JIC SW 4 4	1	1
11.	72532700	ELBOW-M STR/90/M JIC XLG 6 6	1	2
12.	72532792	ADPTR-M STR/M JIC 8 4	1	1
13.	72533583	ELBOW-M STR/45/M JIC 8 6	1	1
14.	72533613	ADPTR-M STR/M JIC 10 6	1	2
15.	72533648	SWIVEL-M JIC/90/M JIC 8 8	1	3
16.	72534412	SWIVEL-M JIC/90/M JIC 10 10	1	1
17.	72533490	ADPTR-M BSPP/M JIC 4 4	1	1
18.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	1	1
19.	51399890	HOSE-FJJ .50 X 40.00 (8-8) 100R17	1	1
20.	51397080	HOSE-FJ .62 X 30.00 (10-10) 100R17	1	1
21.	51397081	HOSE-FZ .50 X 31.50 (8-8) 100R17	1	1
22.	51397082	HOSE-FJ .50 X 31.00 (8-8) 100R17	1	1
23.	51396886	HOSE-FZ .38 X 25.00 (6-6) 100R17	1	1
24.	51396887	HOSE-FJ .38 X 24.50 (6-6) R10017	1	1
25.	51399077	HOSE-FJ .38 X 29.00 (6-6) 100R17	1	1
26.	51399078	HOSE-FZ .50 X 30.00 (8-8) 100R17	1	1
27.	51399072	HOSE-FJ .38 X 22.50 (8-6) 100R17	1	1
28.	51399073	HOSE-FZ .38 X 25.00 (8-6) 100R17	1	1
29.	51399228	HOSE-FJ .38 X 18.00 (8-6) 100R17	1	1
30.	51399229	HOSE-FJ .38 X 22.00 (8-6) 100R17	1	1
31.	51399074	HOSE-FJ .25 X 32.00 (4-4) 100R2	1	1
32.	60350141	SLEEVE-HOSE NHS-159 X 12 CUT & SEALED	1	3
33.	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	1	2
34.	60350105	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED		1
35.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
36.	71415691	TUBE ASM-PRESSURE FILTER S3FP SMALL MAST		1
37.	72534898	O-RING EXTENDER 08-08		1

REV. K CN284

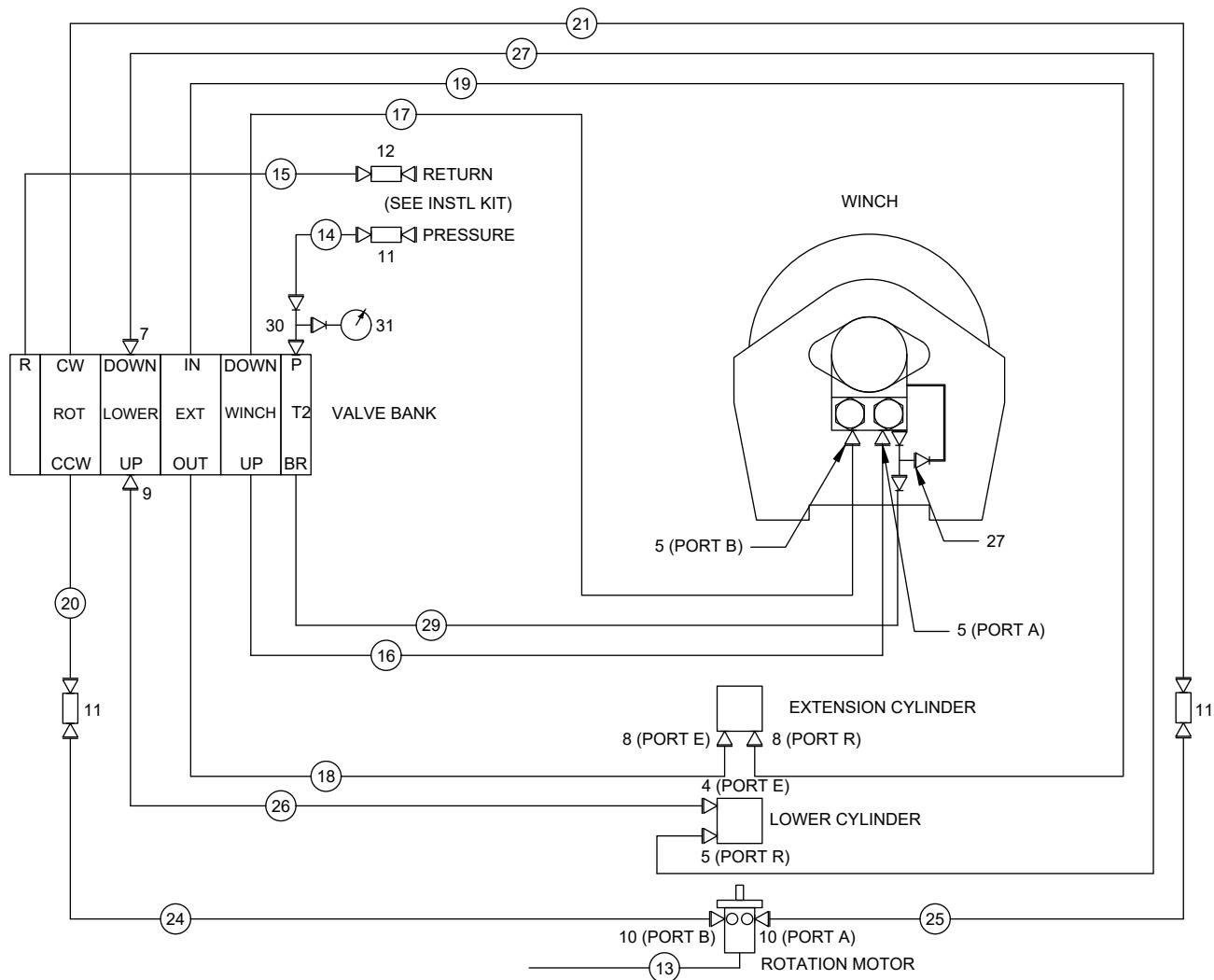
NOTES:

- SEE 99905018-1 FOR WINCH HYDRAULIC MOTOR, LOWER AND EXTENSION CYLINDER.
- INSTALL 30650141 ON EXTENSION CYLINDER, MAIN CYLINDER HOSES AND ROTATION HOSES.
- INSTALL 60350142 ON WINCH HOSES, PRESSURE, AND RETURN VALVE BANK HOSES.
- INSTALL 60350105 ON PRESSURE , RETURN HOSES, AND ROTATION HOSES THROUGH THE MAST.

99905018-1

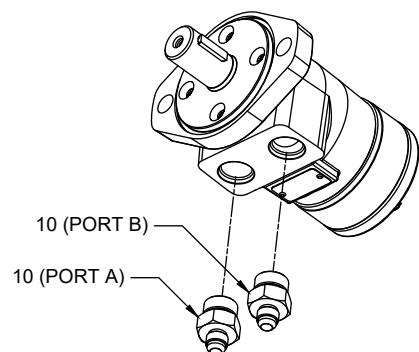
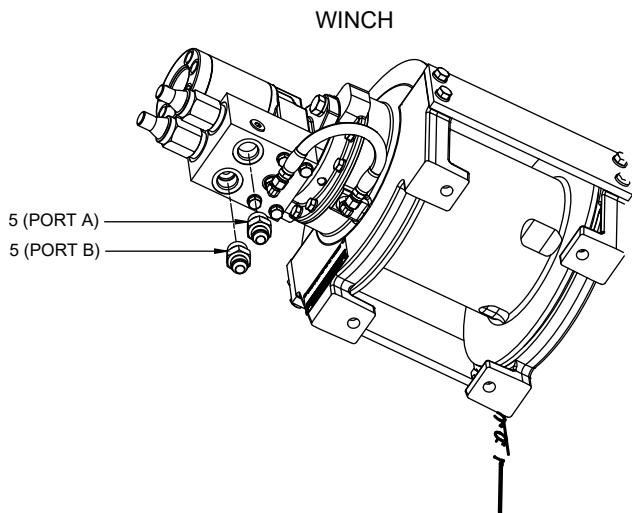
This page left intentionally blank

HYD BG4-BG6 Series III SP (99906029)

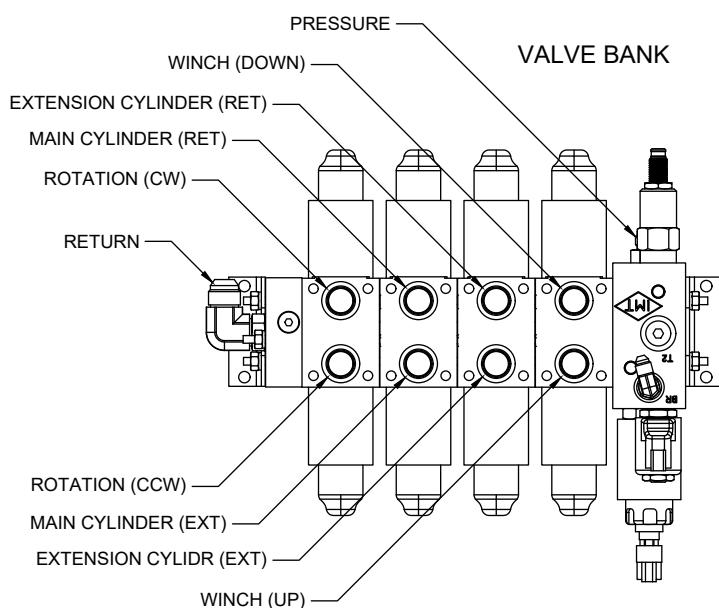
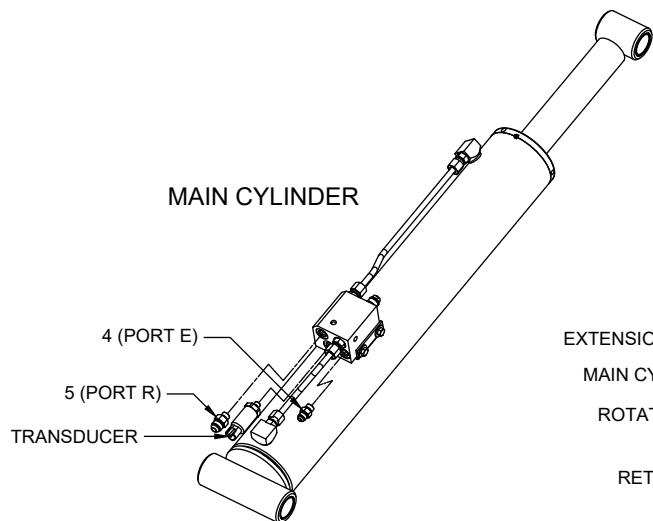
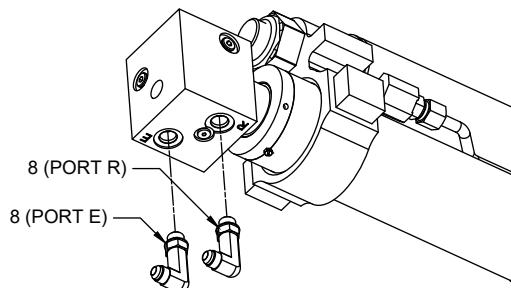


HYD BG4-BG6 Series III SP (99906029)

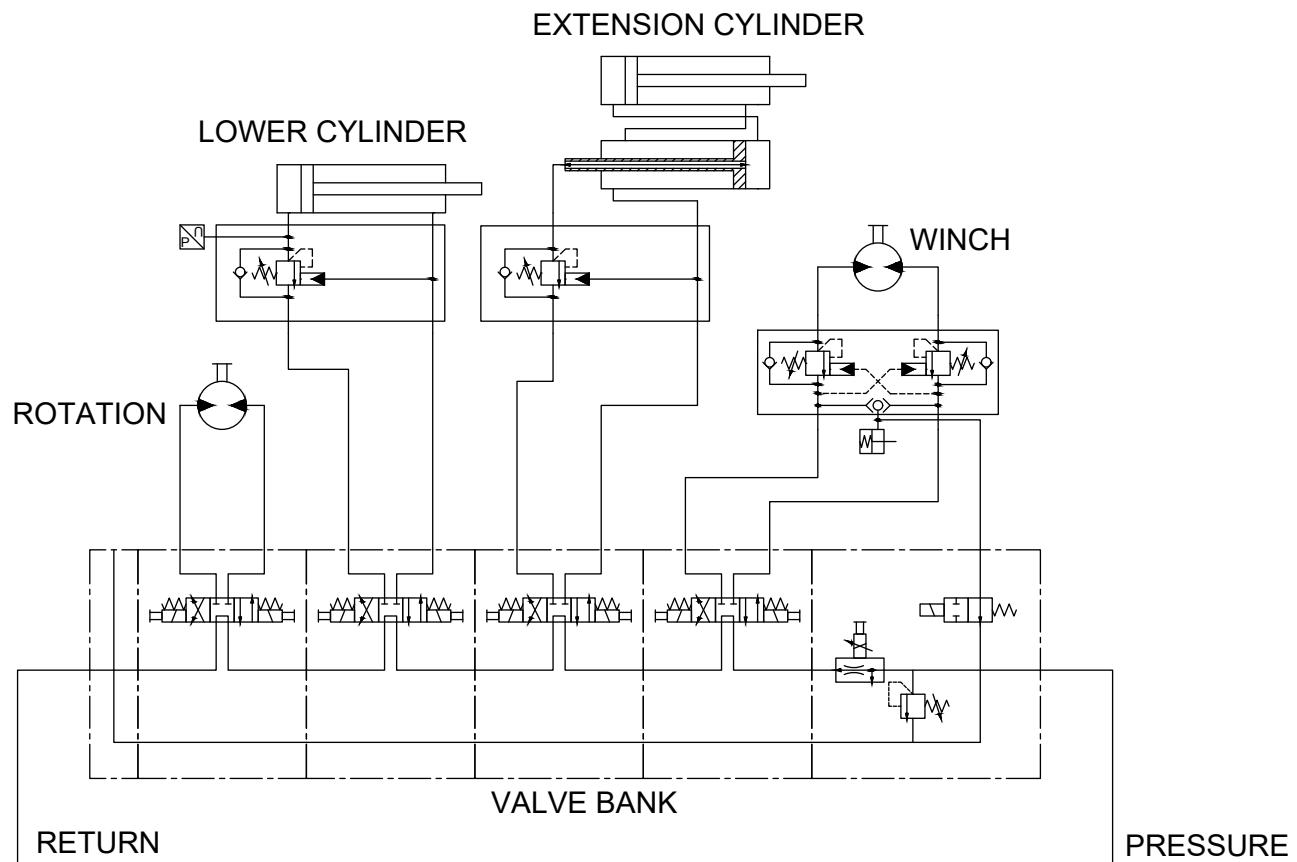
ROTATION MOTOR



EXTENSION CYLINDER

**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.

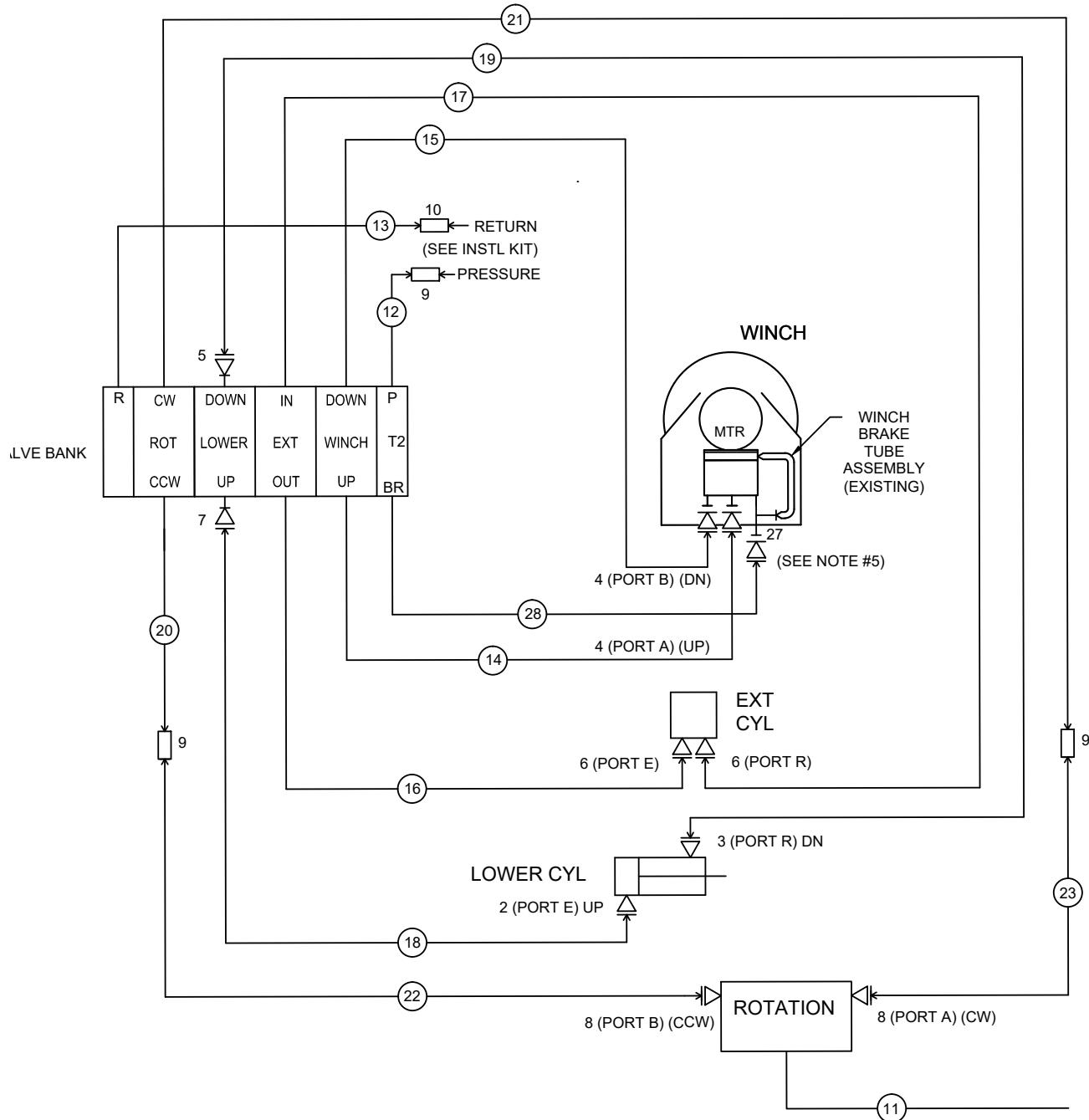
HYD BG4-BG6 Series III SP (99906029)

99906029 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1	91726824	KIT-HYD BG4-BG6 SERIES III SP	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	72532357	ADPTR-M STR/M JIC 6 8	1	1
6	72532359	ADPTR-M STR/M JIC 10 8	1	2
7	72532670	ELBOW-M JIC/45/F JIC 8 8	1	1
8	72532700	ELBOW-M STR/90/M JIC XLG 6 6	1	2
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	51396886	HOSE-FZ .38 X 25.00 (6-6) 100R17	1	1
19	51396887	HOSE-FJ .38 X 24.50 (6-6) R10017	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	72534582	TEE-STL STR/JIC/JIC 4 4 4 RUN	2	1
29	51399908	HOSE-FF .25 X 32.00 (4-4) 100R17	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

10000 25' - Plumbing Diagram, Single Proportional (99906029)



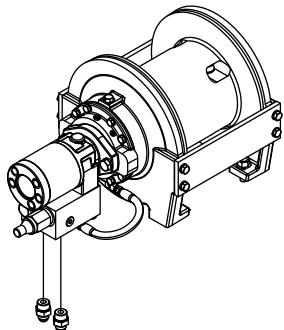
99906029 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	91726824	KIT-HYD BG4-BG6 SERIES III SP		1
2.	72532355	ADPTR-M STR/M JIC 6 6	1	1
3.	72532357	ADPTR-M STR/M JIC 6 8	1	1
4.	72532359	ADPTR-M STR/M JIC 10 8	1	2
5.	72532670	ELBOW-M JIC/45/F JIC 8 8	1	1
6.	72532700	ELBOW-M STR/90/M JIC XLG 6 6	1	2
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.	51396886	HOSE-FZ .38 X 25.00 (6-6) 100R17	1	1
17.	51396887	HOSE-FJ .38 X 24.50 (6-6) R10017	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	
25.	60350142	SLEEVE-HOSE NHS-254 X 15 CUT & SEALED	1	
26.	51726820	KIT-BRADEN WINCH BRAKE RELEASE		
27.	72534582	TEE-STL STR/JIC/JIC 4 4 4 RUN	26	
28.	51399908	HOSE-FF .25 X 32.00 (4-4) 100R17	26	

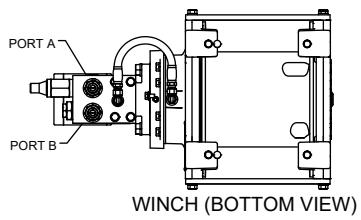
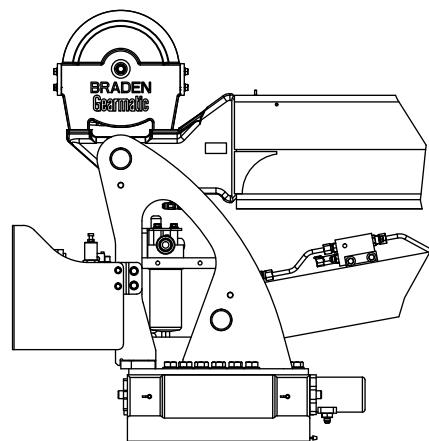
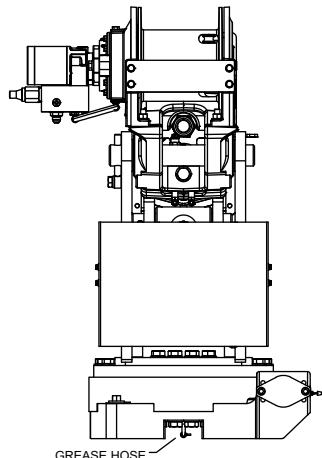
REV. A

NOTES:

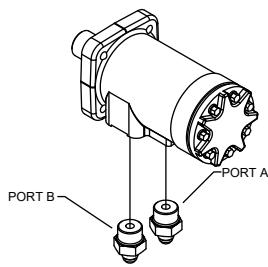
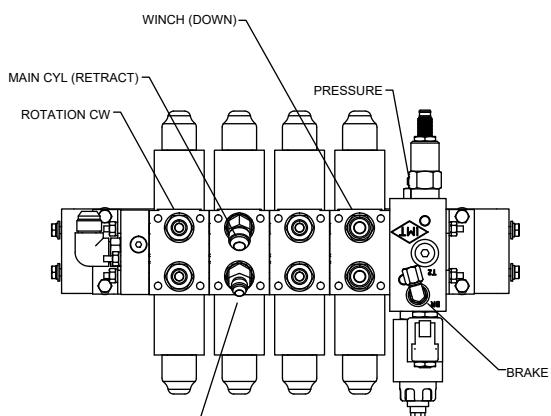
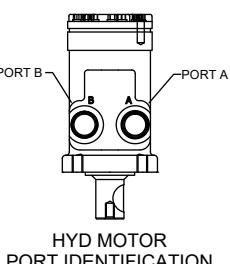
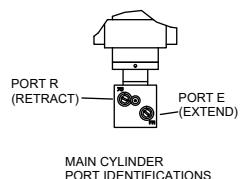
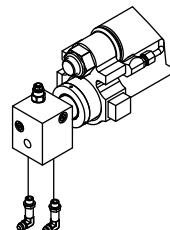
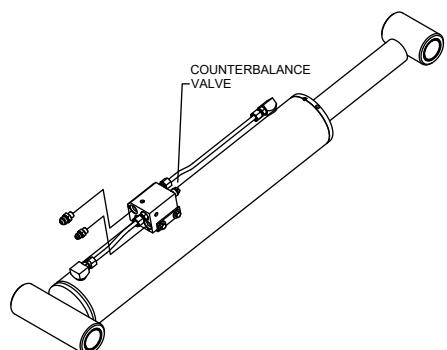
1. SEE 99906029-1 FOR WINCH HYDRAULIC MOTOR, LOWER AND EXTENSION CYLINDER.
2. INSTALL 60350141 ON EXTENSION CYLINDER, MAIN CYLINDER HOSES AND ROTATION HOSES.
3. INSTALL 60350142 ON WINCH HOSES, PRESSURE AND RETURN VALVE BANK HOSES.
4. INSTALL 60350105 ON PRESSURE & RETURN HOSES, AND ROTATION HOSES THROUGH MAST.
5. REMOVE BRAKE HOSE FROM FITTING IN WINCH MOTOR BLOCK.
6. REMOVE AND REPLACE FITTING WITH TEE (ITEM #27).
7. REINSTALL HOSE ONTO TEE.

99906029-1

WINCH



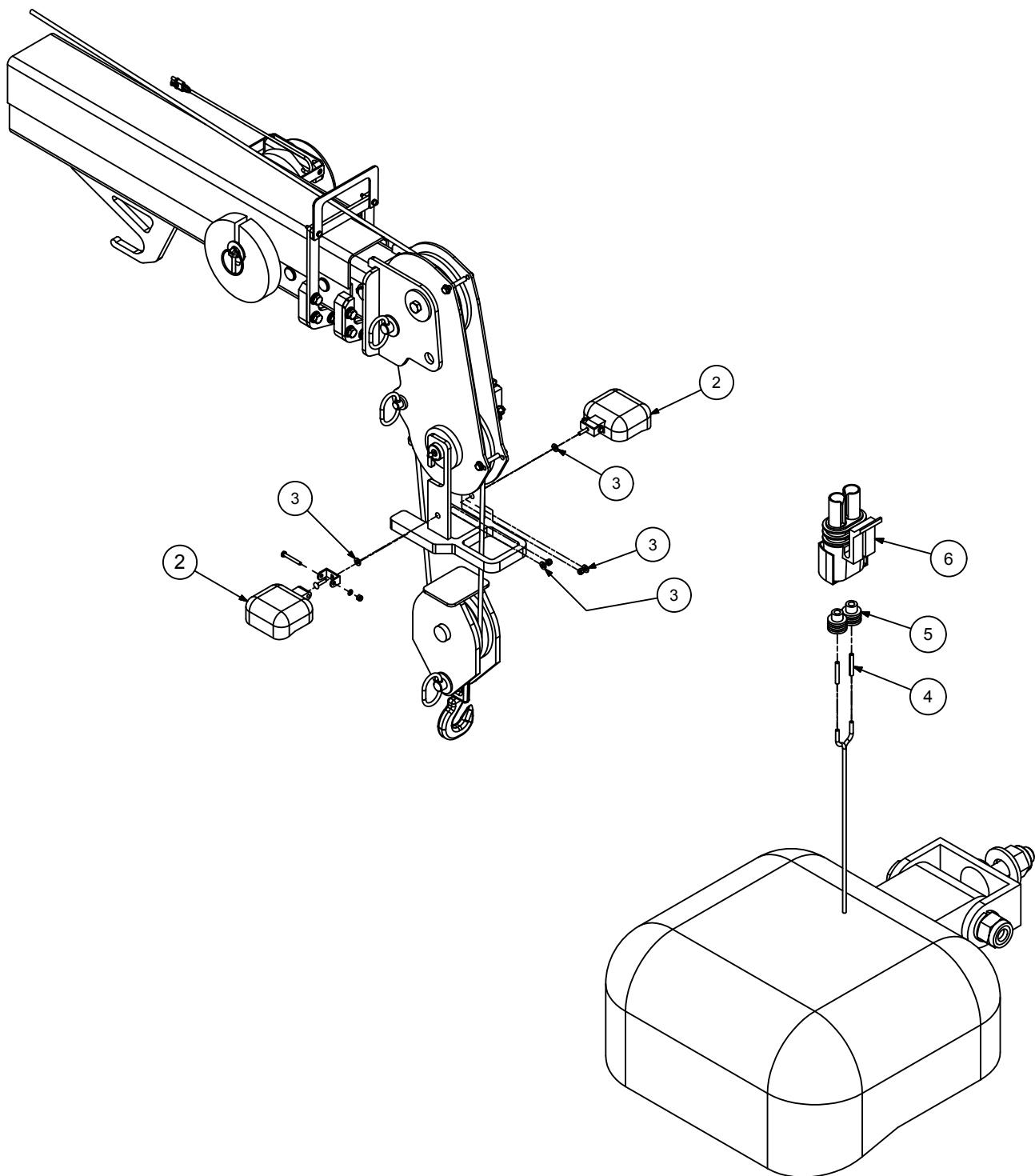
WINCH (BOTTOM VIEW)

ROTATION
HYD MOTORHYD MOTOR
PORT IDENTIFICATIONVALVE BANK
PORT IDENTIFICATIONMAIN CYLINDER
PORT IDENTIFICATIONS

Section - 5

Electrical & Lighting

LED Boom Tip Light Kit (99905289)

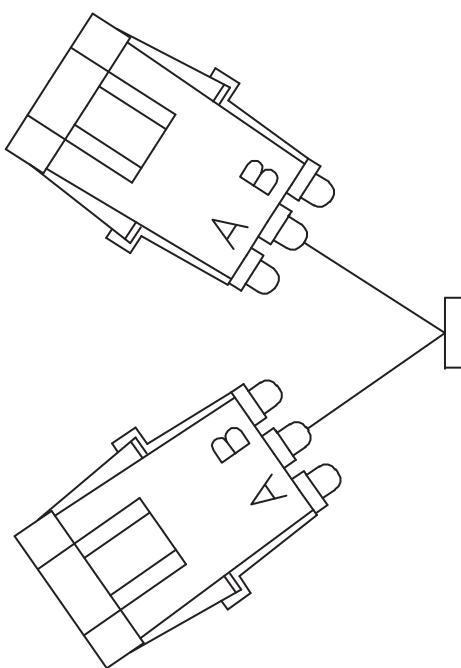
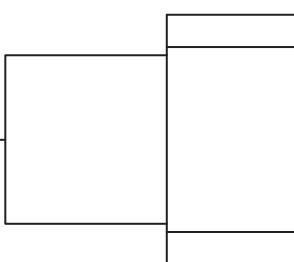


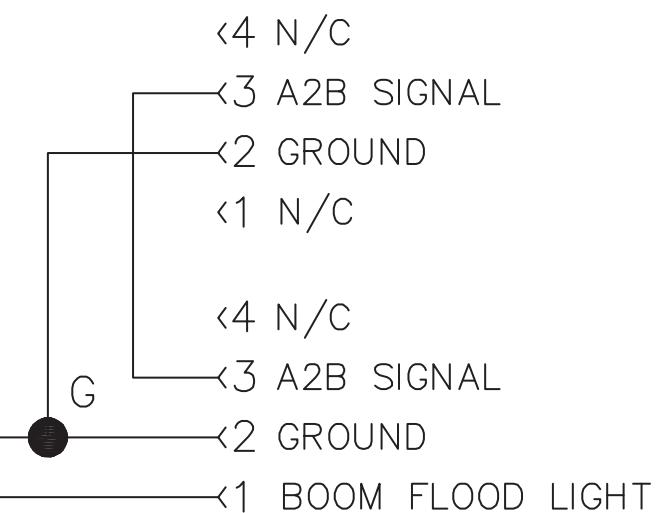
99905289 PARTS LIST

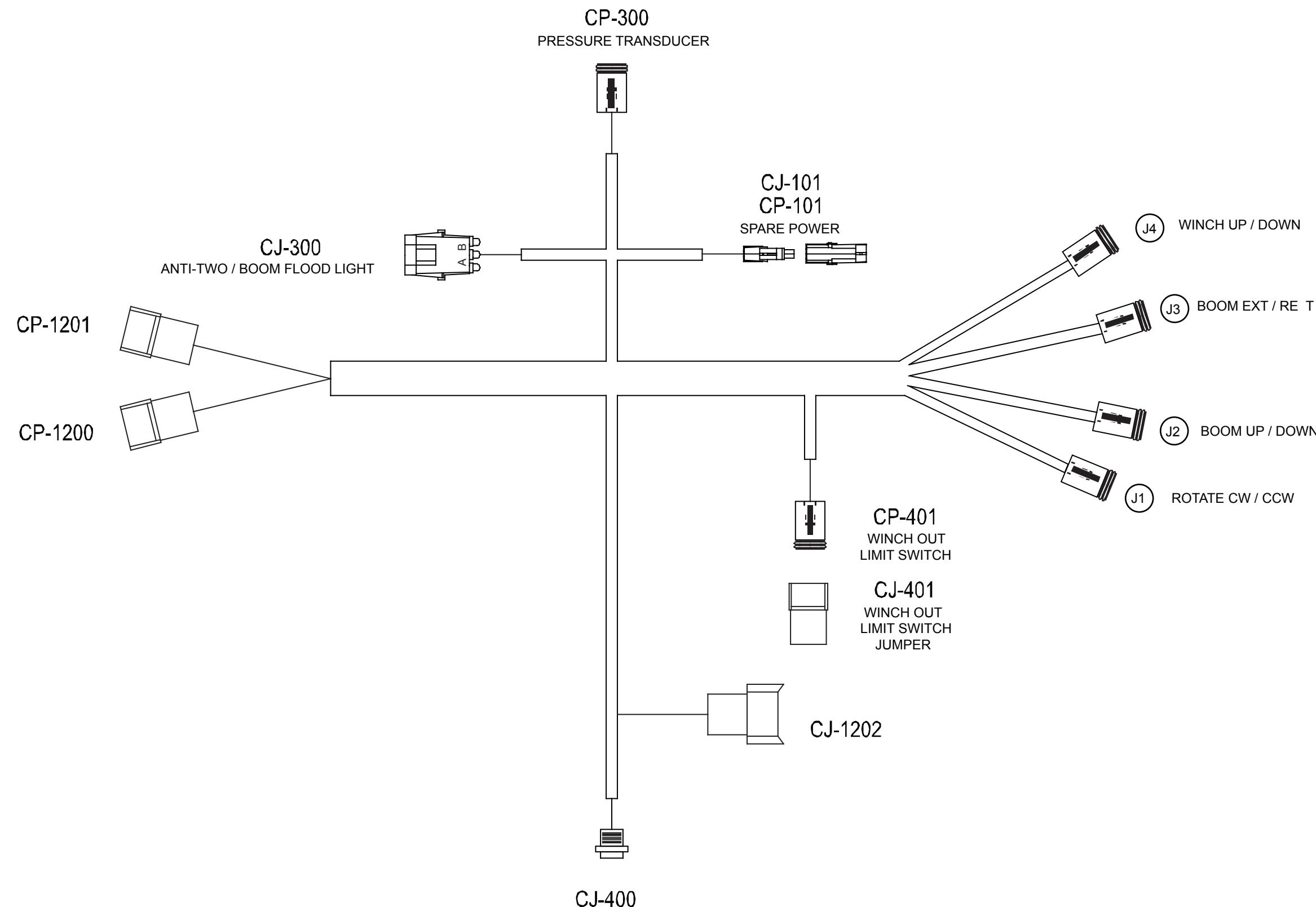
ITEM NO.	PART NO.	DESCRIPTION	KIT NO	QTY.
1.	51724116	ELECT KIT-S3 BOOM DUAL LED FLOOD LIGHTS		1
1.	77441473	HARNESS-S3 BOOM TIP LED FLD LIGHT JUMPER		1
2.	77040581	FLOODLIGHT-LED 12-36VDC	1	2
3.	72063002	WASHER-FLAT .31 W ANSI B27.2 Z	1	4
4.	77045888	TERM-PKRD WEATHERPACK 14-16GA FEMALE	1	4
5.	77044927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

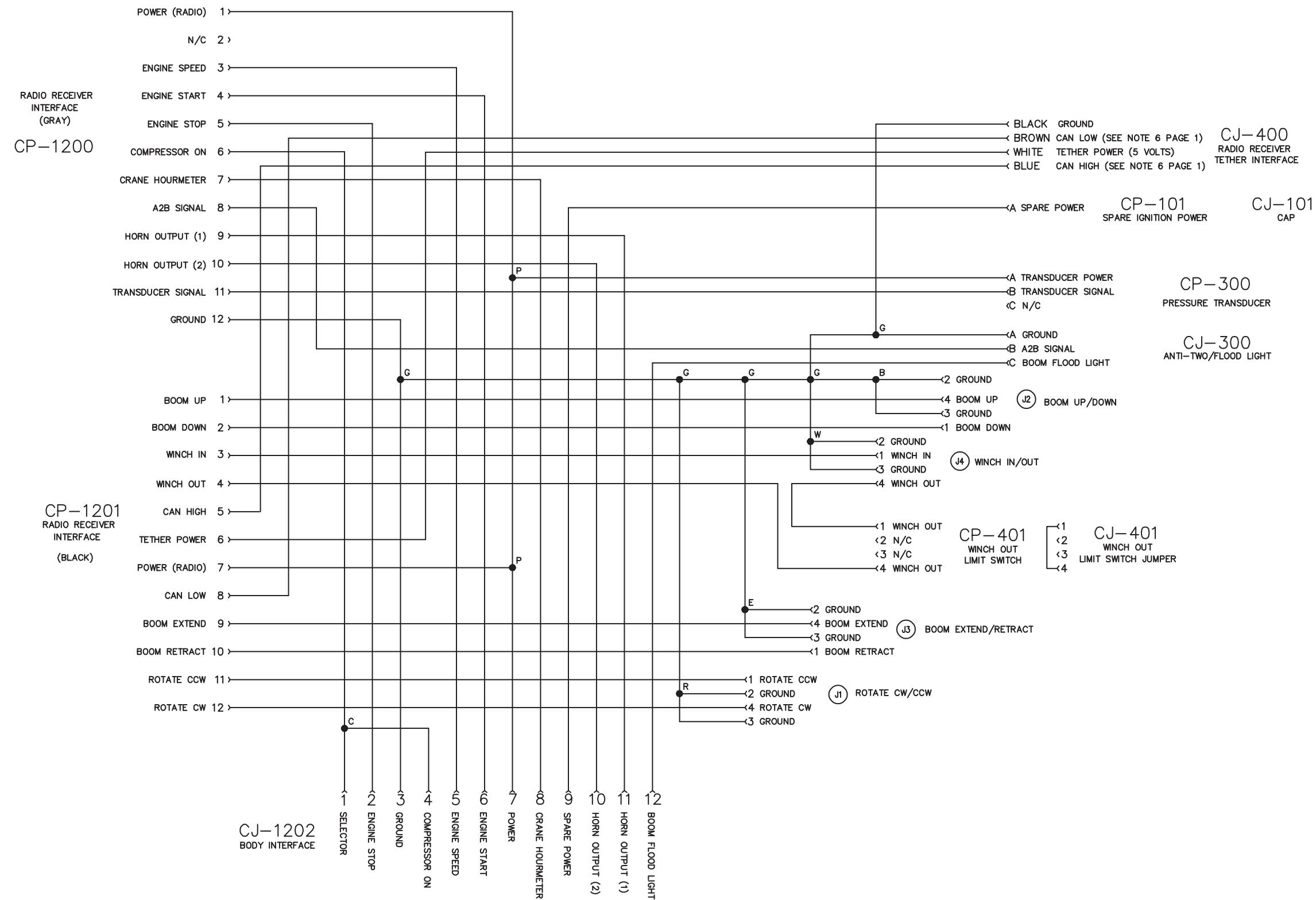
NOTE:

1. LIGHT CAN BE PLACED ON EITHER SIDE.
2. HARNESS CONNECTS TO CORD REEL AND A2B SWITCH.

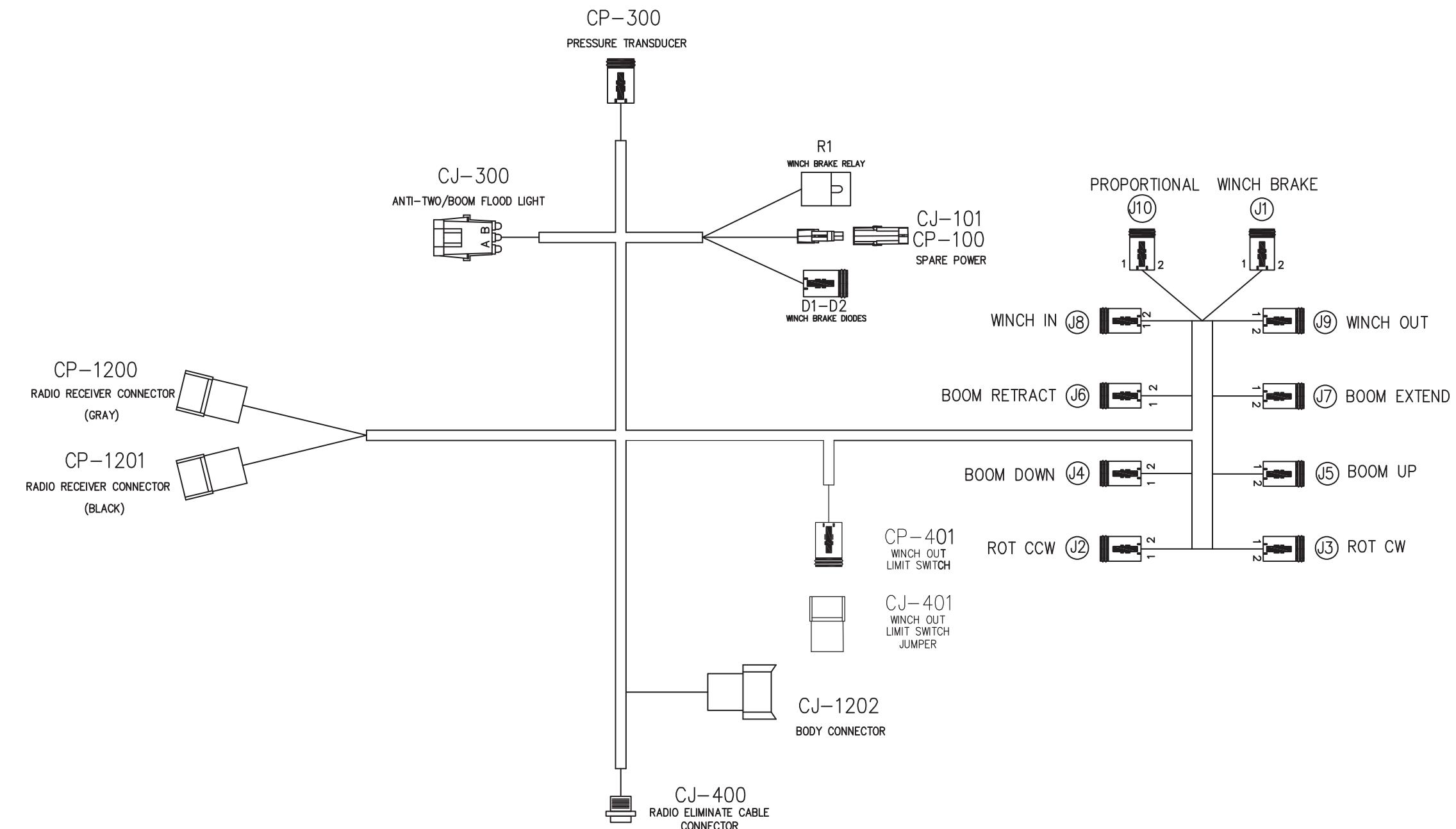
Harness-Boom Tip LED Flood Light (77441473)**Kit Number: 57124116****CP-400****CJ-200****CJ-201****CJ-401**

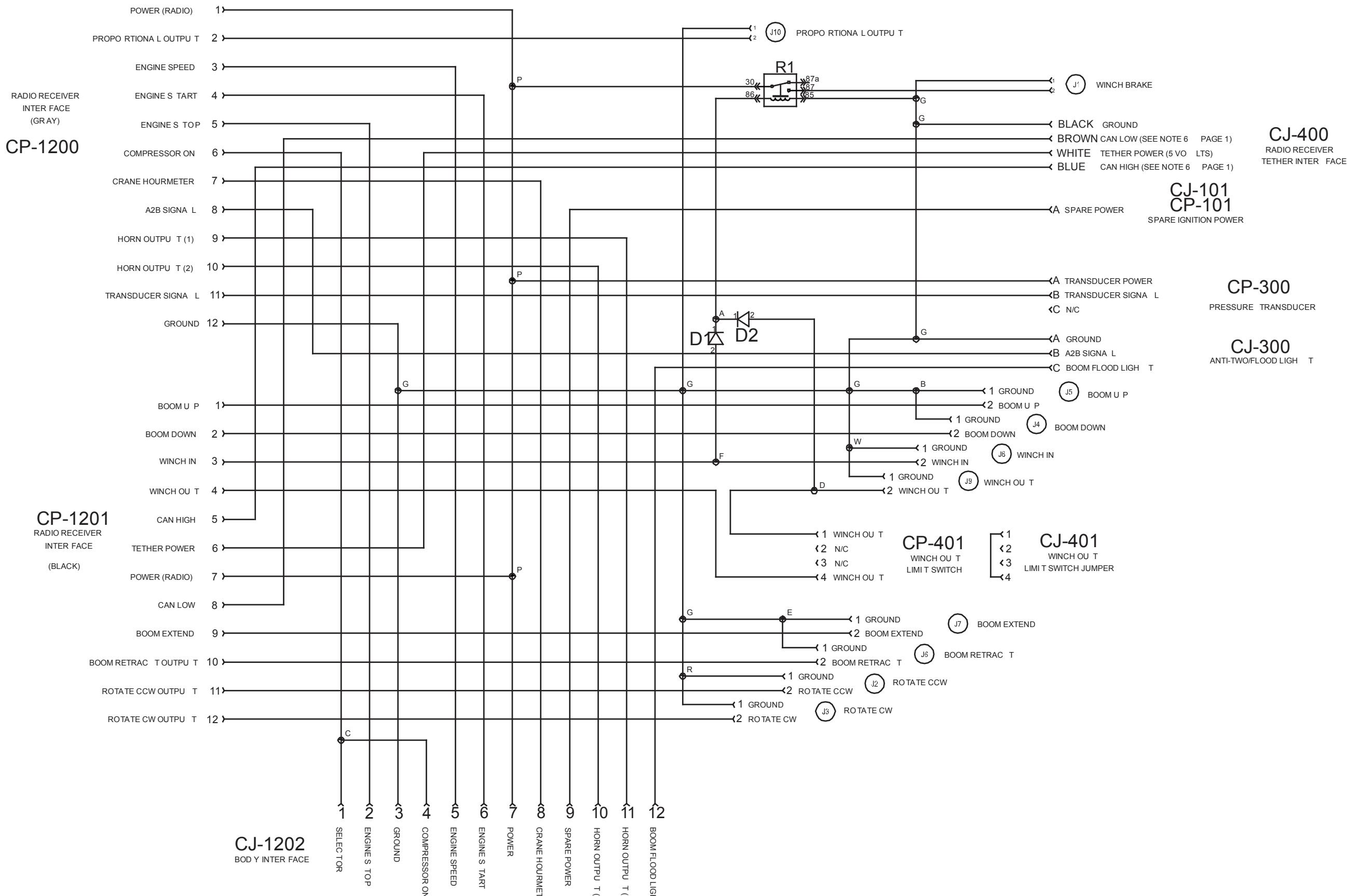
Harness-Boom Tip LED Flood Light (77441473) - continued**Kit Number: 57124116**CJ-200
TO FLOOD LIGHTGROUND
BOOM FLOOD LIGHTA
B
GCJ-201
TO FLOOD LIGHTGROUND
BOOM FLOOD LIGHTA
B
PCP-400
TO A2B SWITCHCJ-401
TO CORD REEL

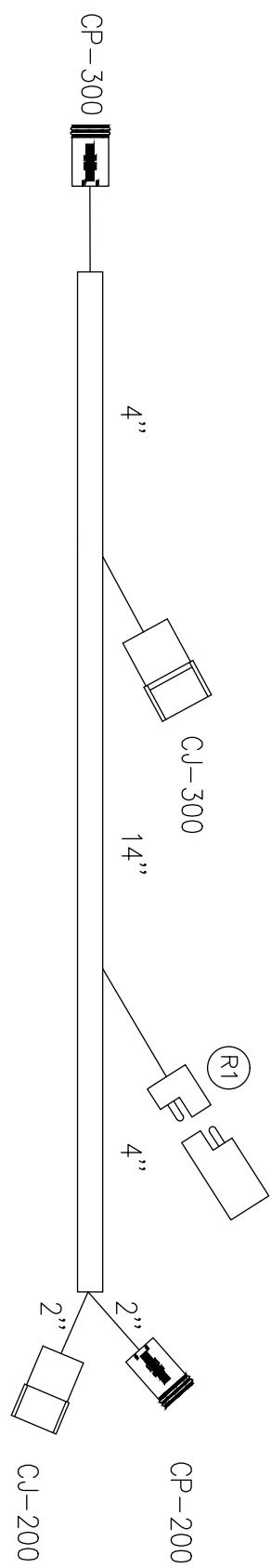
Radio Remote Harness, Fully Proportional (77441481)

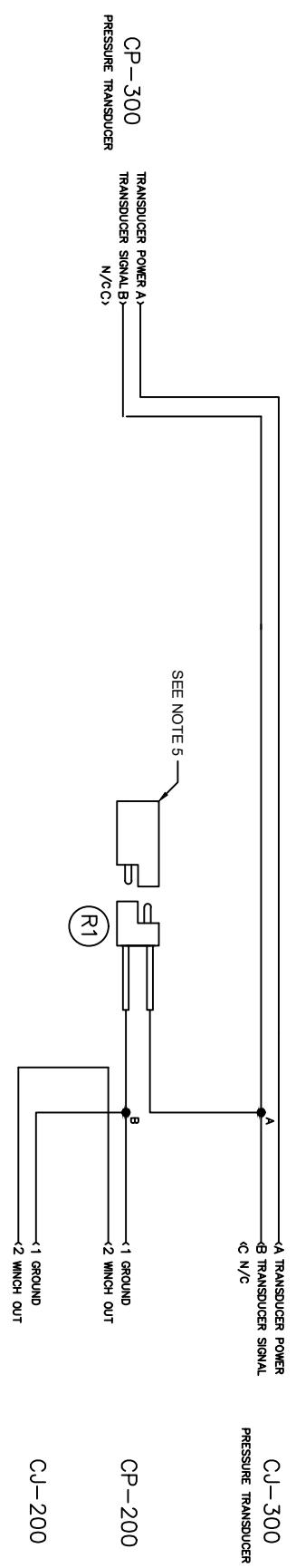
Radio Remote Harness, Fully Proportional (77441481-1)

Radio Remote Harness, Single Proportional (77441537)



Radio Remote Harness, Single Proportional (77441537-1)

Harness Transducer Scaler (77441584)

77441584-1

Harnesses (51726346 & 51726347)

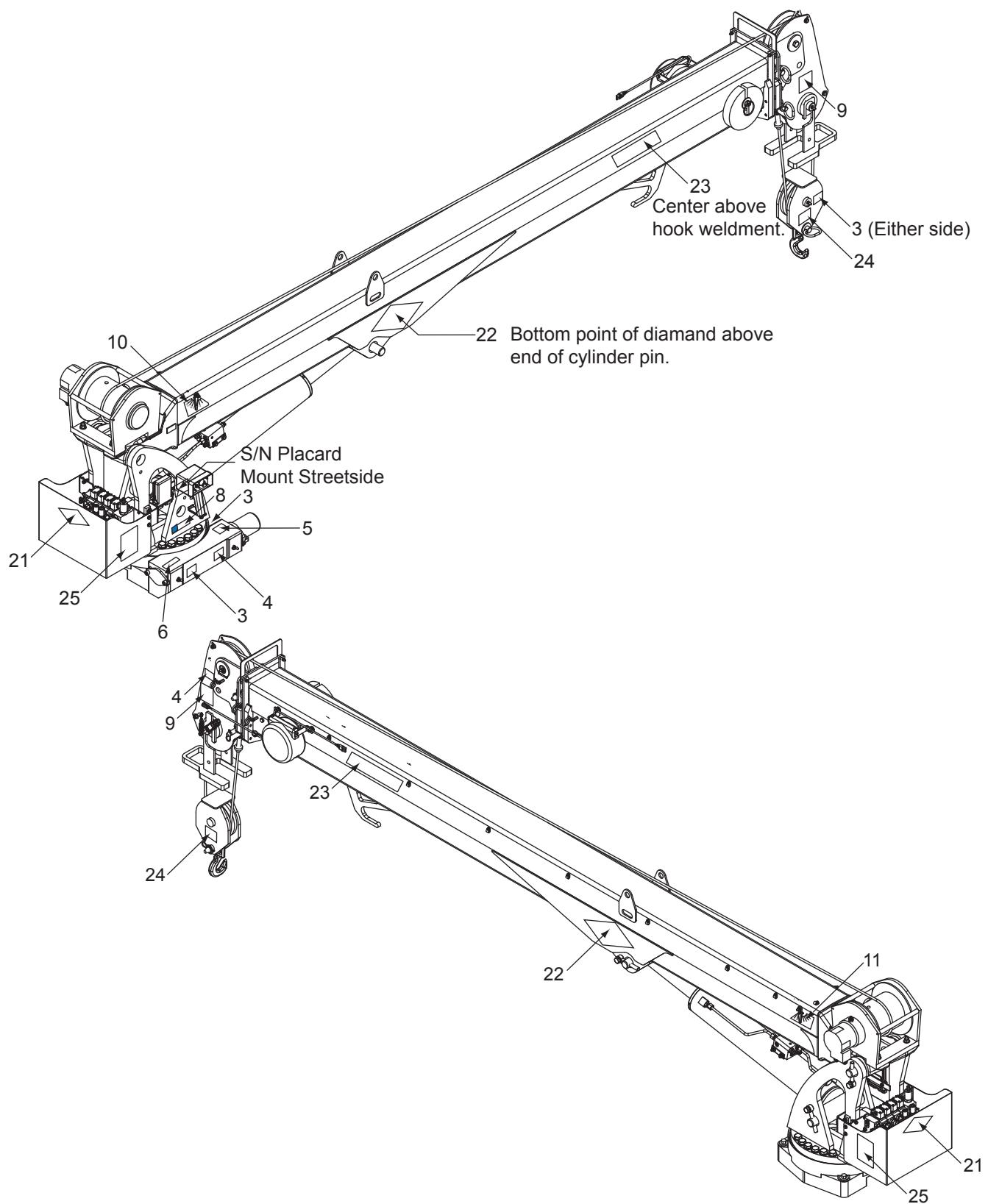
PART NO.	DESCRIPTION	QTY.
51726346	KIT-10000 TRANSDUCER SCALER S PROP	1
51726347	KIT-10000 TRANSDUCER SCALER S PROP	1

NOTE:

PART NUMBERS: 51726346 AND 51726347 ARE **ONLY** FOR THE 10000 30' CRANE.

Section - 6

General Information

Decal Placement (99905087)

99905087 PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	KIT NO.	QTY. IN KIT	QTY. ON CRANE
1.	95724111	DECAL KIT - TELE COMMON			1
3.	70391612	DECAL-GREASE WEEKLY (LEFT)	1	9	3
4.	70391613	DECAL-GREASE WEEKLY (RIGHT)	1	6	2
5.	70392524	DECAL-ROTATE CRANE WHILE GREAS	1	1	1
6.	70392399	DECAL-LUBRICATE WORM	1	1	1
7.	70395090	DECAL-GREASE WORM DRIVE BRNGS	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.	70399195	DECAL-DIAMOND IMT 4 X 8 (REFL)	2	1	1
22.	70399140	DECAL-DIAMOND IMT 6.75X13.50 (REFL)	1	2	2
23.	70399050	DECAL-ID 10000			2REF
24.	70399071	DECAL-LOAD BLOCK RATING 5.25 TONS			2REF
25.	70399108	DECAL-CP 10000-25 FT			2REF
REV. D					

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 SIDEPACK FRONT WALLS
15	AT OR NEAR DRIVELINE
14, 16	ON ALL FOUR SIDES OF CARRIER VEHICLE
18	ON TOP OF HYDRAULIC RESERVOIR

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			17	13	25	18
3/8-24	0.375	35	26	49	35			31	23	44	33
7/16-20	0.4375	55	41	78	58			49	37	70	52
1/2-20	0.5	90	64	120	90			57	105	80	
9/16-18	0.5625	120	90	170	130			110	82	155	115
5/8-18	0.625	170	130	240	180			150	115	220	160
3/4-16	0.75	300	225	420	315			265	200	375	280
7/8-11	0.875	445	325	670	500			395	295	605	455
1-12	1	645	485	995	745			590	445	910	680
1 1/8-12	1.125	890	670	1445	1085			795	595	1290	965
1 1/4-12	1.25	1240	930	2010	1510			1120	840	1815	1360
1 3/8-12	1.375	1675	1255	2710	2035			1470	1100	2380	1780
1 1/2-12	1.5	2195	1645	3560	2670			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

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.

Thread Torque Charts - Metric

FINE THREAD TORQUE CHART (METRIC)						COURSE THREAD TORQUE CHART (METRIC)					
SIZE	BOLT DIA.	GRADE 5		GRADE 8		SIZE	BOLT DIA.	GRADE 5		GRADE 8	
		(DIA-TPI) (INCHES)	PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)			PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)
5/16-24	0.3125	3	2	4	3	5/16-18	0.3125	2	2	3	2
3/8-24	0.375	5	4	7	5	3/8-16	0.375	4	3	6	5
7/16-20	0.4375	8	6	11	8	7/16-14	0.4375	7	5	10	7
1/2-20	0.5	12	9	17	12	1/2-13	0.5	10	8	15	11
9/16-18	0.5625	17	12	24	18	9/16-12	0.5625	15	11	21	16
5/8-18	0.625	24	18	33	25	5/8-11	0.625	21	16	30	22
3/4-16	0.75	41	31	58	44	3/4-10	0.75	37	28	52	39
7/8-11	0.875	62	45	93	69	7/8-9	0.875	55	41	84	63
1-12	1	89	67	138	103	1-8	1	82	62	126	94
1 1/8-12	1.125	123	93	200	150	1 1/8-7	1.125	110	82	178	133
1 1/4-12	1.25	171	129	278	209	1 1/4-7	1.25	155	116	251	188
1 3/8-12	1.375	232	174	375	281	1 3/8-6	1.375	203	152	329	246
1 1/2-12	1.5	304	228	492	369	1 1/2-6	1.5	270	210	438	328
REV. 20210504											

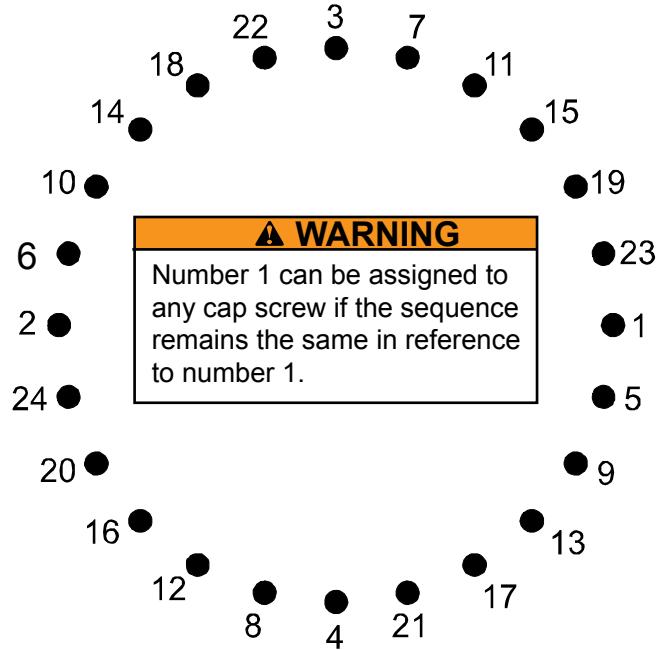
NOTES:

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

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.

Turntable Bearing Thread Tightening Sequence



NOTES:

Refer to the Turntable Bearing Thread Tightening diagram for proper tightening-torquing sequence of the turntable bearing to the crane base and crane mast. The total quantity of cap screws varies on crane model.

TIGHTENING PROCEDURE:

1. Refer to the Torque Data Chart to determine the proper torque value to apply to the size of cap screw used.
2. Follow the tightening sequence shown in the diagram.
3. Torque all cap screws to approximately 40% of the specified torque value by following the sequence examples:
 - .40 X 265 ft-lb = 106 ft-lb.
 - .40 X 36 kg-m = 14.4 kg-m.
4. Repeat step 3 torquing all cap screws to 75% of the specified torque value. Continue to follow the tightening sequence examples:
 - .75 X 265 ft-lb = 199 ft-lb.
 - .75 X 36 kg-m = 27 kg-m.
5. Using the proper sequence, torque all cap screws to the listed torque value as determined from the Torque Data Chart.



An Oshkosh Corporation company

IOWA MOLD TOOLING CO., INC.

P.O. Box 189 Garner, IA 50438

Tel: 641.923.3711

Fax: 641.923.2424

www.imt.com



Oshkosh is a registered trademark and the Oshkosh logo is a trademark of Oshkosh.

IMT reserves the right to make changes in engineering, design, specifications, add improvements or discontinue manufacturing at any time without notice or obligation.

IMT and IMT LOGO are registered trademarks of Iowa Mold Tooling Co., Inc., Garner, IA, USA.

© 2021 Iowa Mold Tooling Co., Inc. All Right Reserved.