
Manual Part # 99905186

Model 12000 25-foot Parts & Specifications

Revised: May 8, 2017



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Revisions

DATE	LOCATION	DESCRIPTION
20111031	77441481	ECN 11624 - Harness change
20120815	99904973 73734727	ECN 11774 - Added cable guide ECN 11783 - 73734727 was 73734635
20130228	99904973	ECN 11913 - Single Proportional System Available
20130412	99904973	ECN 11945 - Cable guide changed
20130417	99904973	ECN 11952 - A2B bracket changed
20130417	99904973	ECN 11959 - Horn controls added
20130522	99904973	ECN 11940 - Hook stow and pin changes
20131115	77441481 77441537 99905614	Added nailboard and circuit charts Added circuit chart Added horn circuit schematic
20140416	99905068 99904973 99905289 99905088	ECN 12147 – move limit switch, update crane assembly within drawings
20141001	51722968 71056674 Greasing Instructions 99905597 73734472	ECN 12216 – changed width of pin boss from 4.88" to 4.75" Added parts breakdown. ECN 12264 – Molub-Alloy 882 was Molub-Alloy 936 ECN 12266 - Added ECN 12253 – Delete 72534560, Add 72532699 & 72532674
20151110	51723638	ECN11723-6Delete 91723603 added 91725602
20151228	51722968	CN 262-counterbalance valve 73054807 was incorrect. Corrected to 73540565.
20160126	99905597	Ecn12052-Drainport changes on Hydraulics
20160408	99904973	Cn284-Change part number 72532358 to 3.
20160504	CN277-1	Removed value boxes, added grid lines to capacity chart.
20160531	INTORDUCTION	ADDED PERSONAL FALL /TIE-OFF PROTECTION INFORMATION
20160609		Fixed a title (wrong heading size)
20170227	77441481	Replaced incorrect harness-tele radio remote series III with correct electrical drawing.
20170313	70392399	CN519:updated to new grease info.

CHAPTER 1

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, NOTES, CAUTIONs and WARNINGs are used to draw the attention of personnel. They are defined as follows:

NOTE

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

⚠ CAUTION

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

⚠ WARNING

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

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

Personal Fall/Tie-Off Protection

When using IMT products for the purpose of personal fall protection, users shall read, understand, and follow the personal fall protection provisions of OSHA 29 CFR 1926.1423, paragraphs (g) *Anchorage criteria*; (j) *Anchoring to the load line*; (k) *Training*. Note OSHA sections, 1926.502(d)(15)* and 1926.502(e)(2)*, are cross-referenced in this section and is up to the user to read, understand, and follow these regulations. The above-referenced provisions within OSHA address specific personal fall protection requirements; however, users of IMT products are required to read, understand and follow all OSHA, industry, workplace, and employer-created regulations governing the use of this product, which includes, but is not limited to, 29 CFR 1926.1423. The user is also required to read, understand, and follow IMT's warnings and instructions. Nothing within this letter should be interpreted to limit or excuse non-compliance with the above requirements in their entirety.

When using IMT products with personal fall protection as described above, users shall utilize a two-part line with the snatch block installed on the winch load line. The personal fall protection shall be attached to the hook on the snatch block. The personal fall protection device shall be connected to the hook on the snatch block only if the hook has the original safety latch on the hook. At no time shall anyone use the hook on the snatch block for purposes of attaching personal fall protection if the safety latch is not original to the hook, or is missing or damaged, and/or if the safety latch is not properly functioning. At no time shall anyone use the winch wire-rope as a tie-off point for personal fall protection. The failure to follow the above regulations and strict adherence to all applicable OSHA, industry, workplace, employer-created, and IMT warnings and instructions can lead to personal injury or death.

These OSHA regulations can be found at:

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

* In order to use this method, the hook must have a safety latch, the crane must be capable of supporting 5,000 pounds (refer to the load chart affixed to the crane), limit the fall to less than 6-feet, and not allow a swinging fall. Crane hooks should be used only where there is no other suitable anchor point.

CHAPTER 2

Specifications

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Model 12000 25' Specifications

GENERAL SPECIFICATIONS	
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.)	80,000 ft-lb (11.1 tm)
HORIZONTAL REACH - FLIP SHEAVE UP (From centerline of rotation)	24'-5" (7.4 m)
HORIZONTAL REACH - FLIP SHEAVE DOWN (From centerline of rotation)	24'-0" (7.3 m)
HYDRAULIC EXTENSIONS (2)	75" & 75" (190.5 cm & 190.5 cm)
LIFTING HEIGHT (From base of crane)	26'-3" (8.0 m)
CRANE WEIGHT	3,050 lb (1,384 kg)
CRANE STORAGE HEIGHT	46.3" (117.6 cm)
MOUNTING SPACE REQUIRED (Crane base)	24" x 25" (61.0 cm x 63.5 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	46.3" (117.3 cm)
▪ Vertical from Bottom of Crane Base	21.38" (54.3 cm)
TIE-DOWN BOLT PATTERN (8 bolts)	11.5" x 18.0" (29.2 cm x 45.7 cm)
ROTATIONAL TORQUE	11,000 ft-lb (1.5 tm)

PERFORMANCE CHARACTERISTICS		
	SPECIFICATIONS	SPEED
ROTATION	400° (7.0 rad.)	30 seconds
LOWER BOOM ELEVATION	-10° to +80° (-0.17 to +1.4 rad)	12 seconds to raise or lower
EXTENSION CYLINDERS (2)	102" & 102" (259 cm & 259 cm)	33 seconds to extend or retract
WINCH SPEED (single line)		60 feet per minute

POWER SOURCE

Hydraulic power is provided by an 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 liters/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° (6.98 rad).

HYDRAULIC SYSTEM (PTO DRIVEN)

The hydraulic system is an open-centered, full-pressure system that requires 10-12 GPM (37.9 - 45.4 liters/min.) optimum oil flow at 3200 psi (221 bar). It is equipped with a four-section, stack-type, electric, remote control valve with an RF remote-control system with a 40' (9.1 m) radio elimination cable. The system includes a separate hydraulic oil reservoir, suction line filter, return-line filter and control valve.

OVERLOAD PROTECTION SYSTEM

Overloading of the crane is prevented by the overload protection system. A pressure transducer mounted on the lower cylinder senses overload conditions. When in an overload situation, the winch-up, extension-out, and boom-down functions are stopped. To relieve the situation, raise the boom, retract the extensions, or lower the winch.

WINCH

The 7,000 lb (3,175 kg) planetary winch is powered using a high-torque hydraulic motor. The lifting capacity of the winch is 7,000 lb (3,175 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 1/2" (1.3 cm) 6X31 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.

12000-25' Minimum Chassis Specifications

CRANE MODEL	12000 - 25'
CHASSIS STYLE	Conventional Cab
BODY STYLE	Dominator™ III or Dominator™ IV
CAB-TO-AXLE (1)	108" (274 cm) (Dominator III) 120 - 154" (305 - 391 cm) (Dominator IV)
RESISTANCE TO BENDING MOMENT	1,700,000 in-lb (195,861 kg-m)
FRAME SECTION MODULUS	14.2 cubic inches (232.7 cc)
RATED MOMENT	80,000 ft-lb (11,060 kg-m)
GROSS VEHICLE WEIGHT RATING (2)	33,000 lb (14,970 kg) minimum

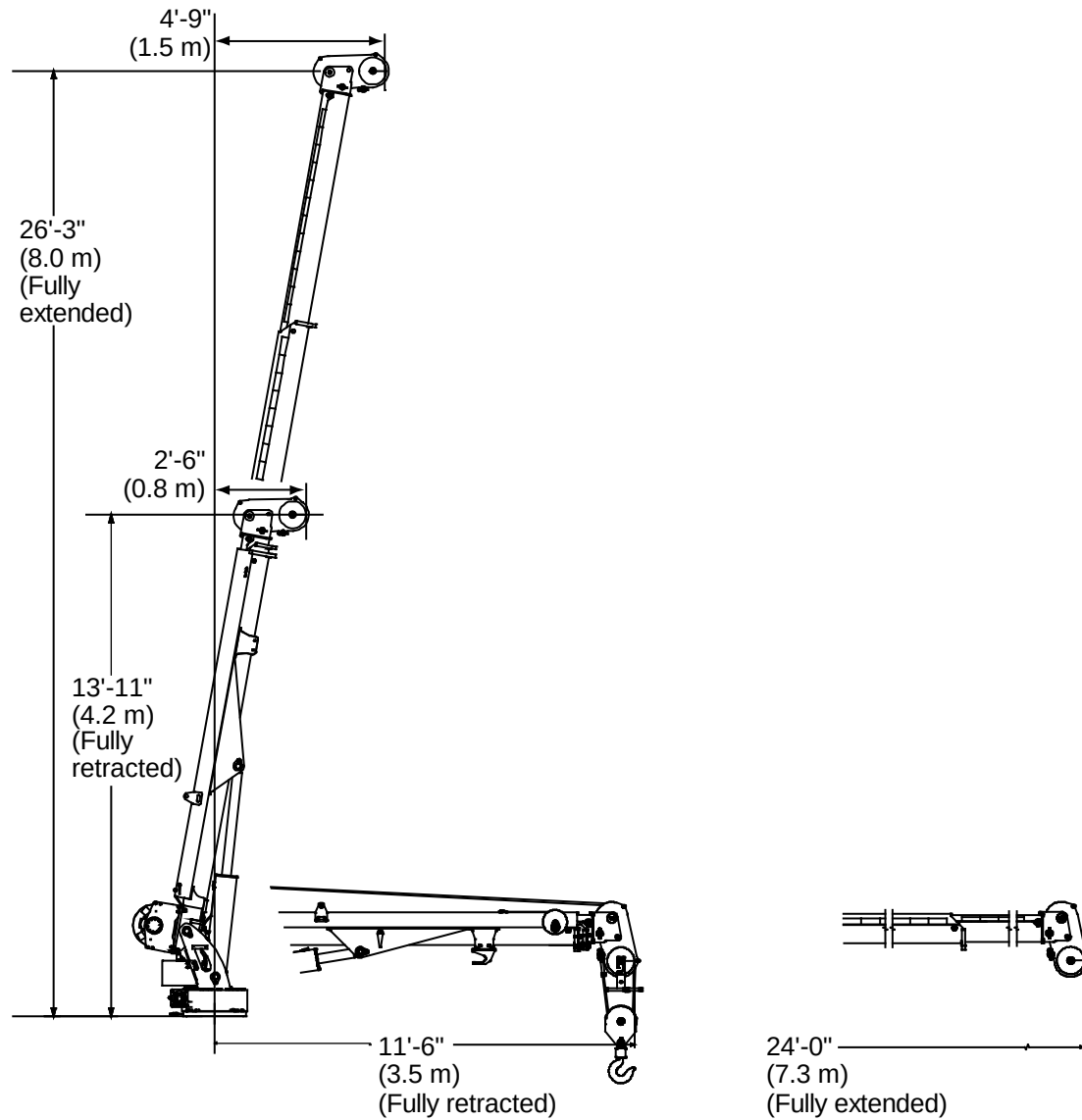
NOTES:

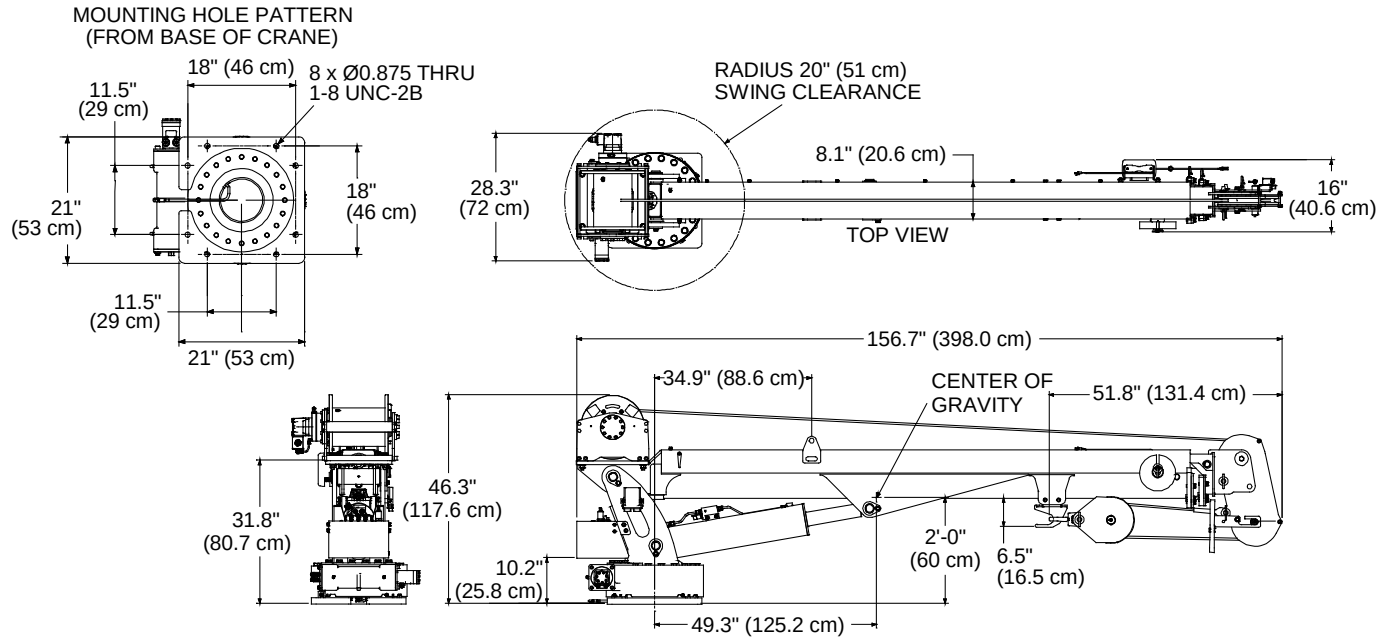
- 1 The Cab to Axle (CA) dimension varies based on the configuration of the body, crane, and auxiliary equipment including welder decks. Make sure the CA is free and clear from obstructions everywhere except between the frame rails.
- 2 The Gross Vehicle Weight Rating (GVW) is a minimum guideline. Contact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

Iowa Mold Tooling Co., Inc. reserves the right to change specifications and design without notice.

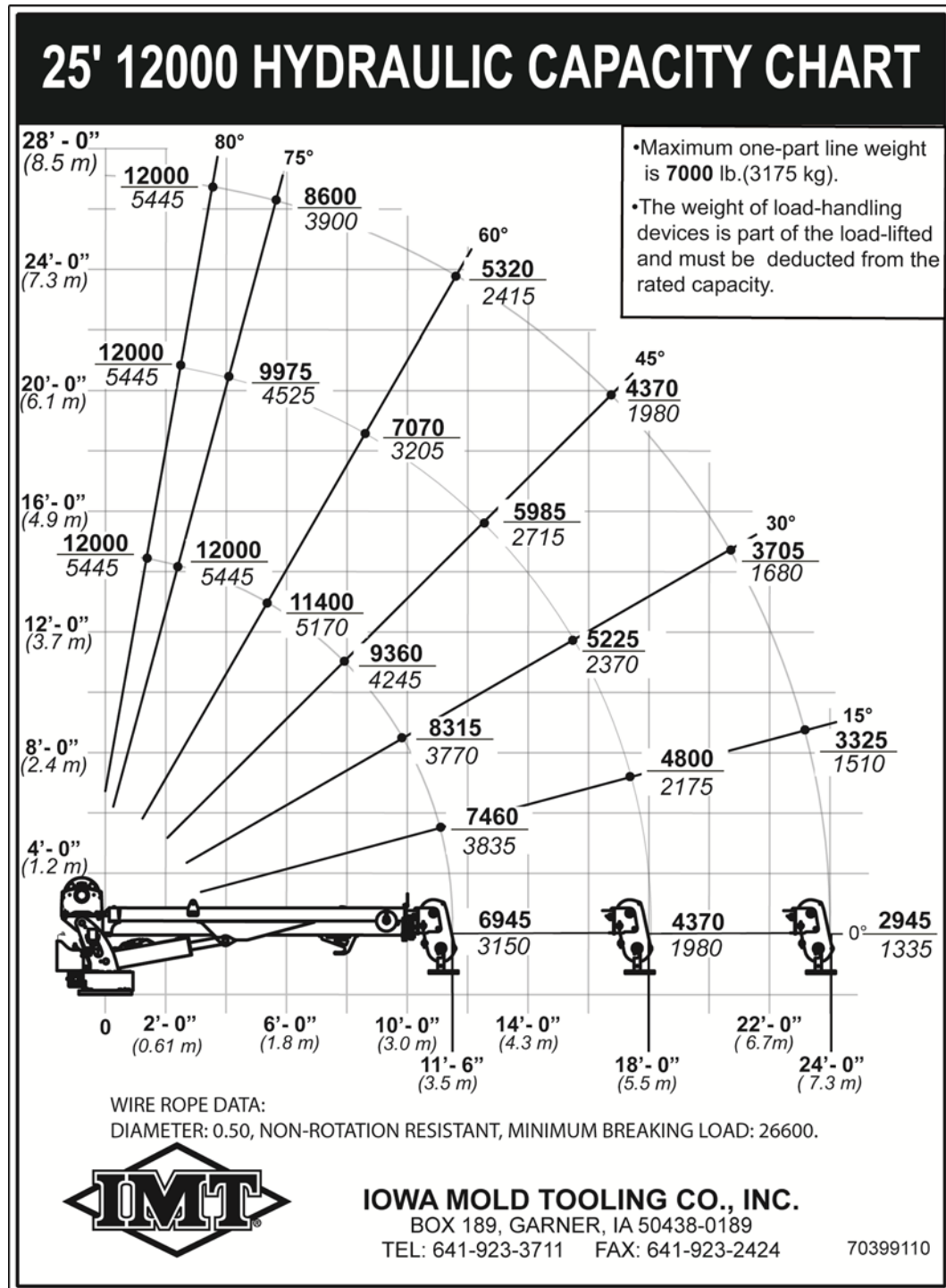
Dimensional Drawings

Dimensions for 25' 12000 and 14000 Crane





25' 12000 Crane Capacity



CHAPTER 3

Crane Reference

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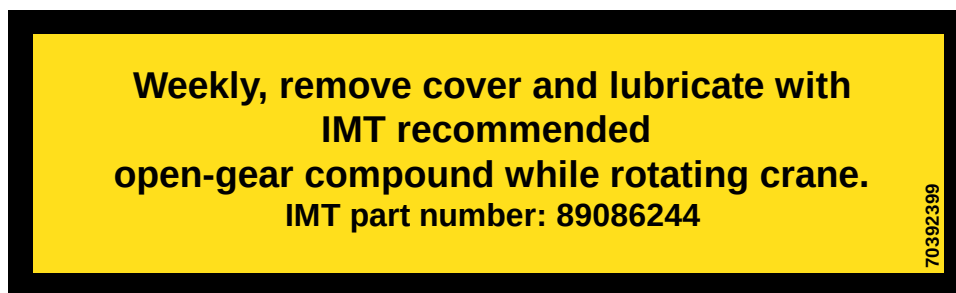
Greasing Instructions

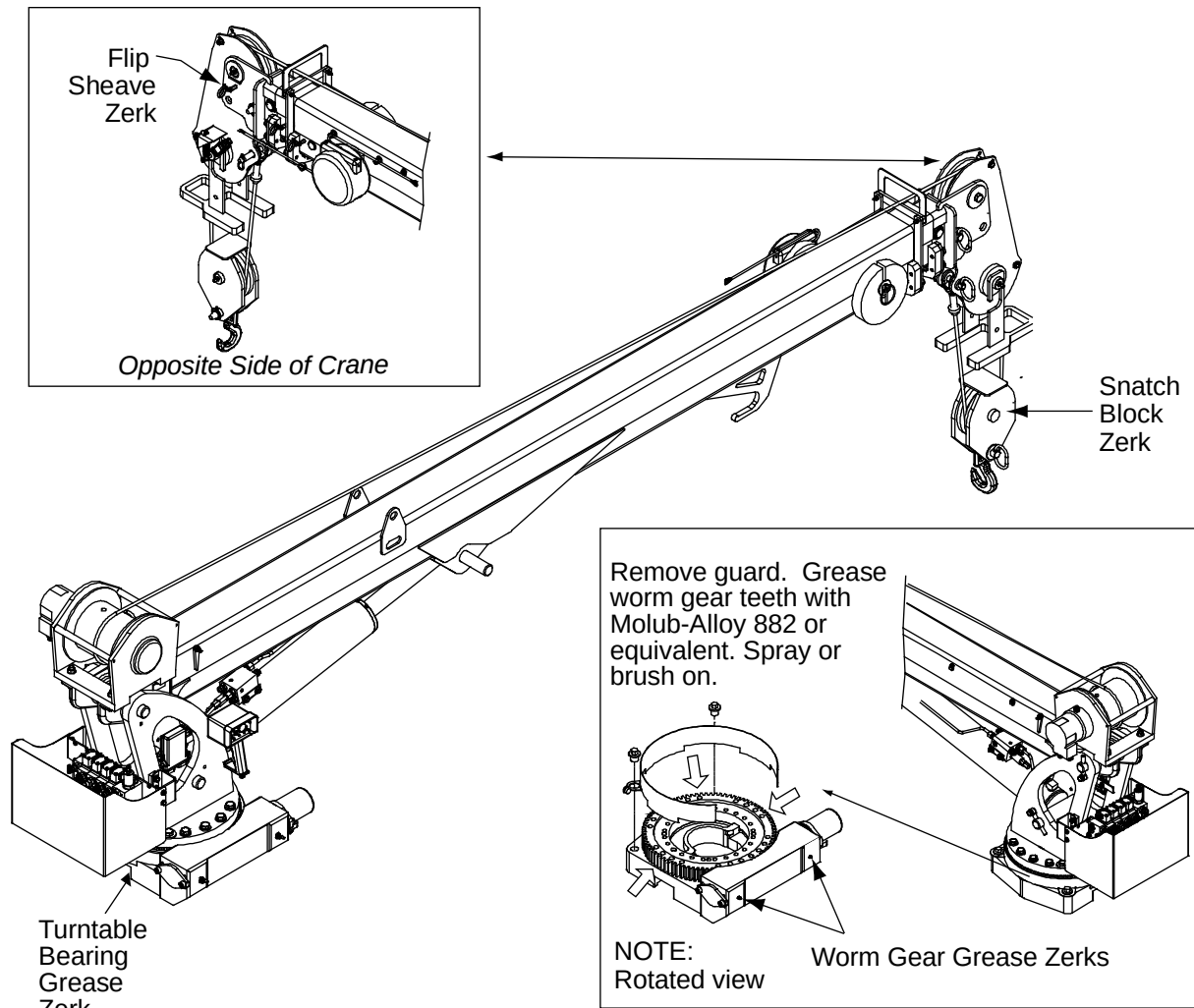
Different lubricants are required for different sections of your crane. Contact your lubricant supplier for specific product information. Follow the grease and lubricant specifications and intervals listed in this manual for best results.

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



Crane worm gear bearing teeth must be lubricated weekly with Molub-Alloy 882 Heavy or equivalent, applied with a grease gun or brush. Cover all teeth with grease and leave no exposed metal surfaces showing.





LOCATION	LUBRICANT	APPLICATION METHOD	FREQUENCY
Base - Turntable Bearing Grease Zerk	Extreme Pressure Lithium Grease such as Shell Alvania 2EP, Shell Retinax "A", Mobilgrease XHP 462, Cenex ML 365, Xtreme True-Flo MP EP2 Lithium Grease or equivalent.	Apply with hand or pneumatic pressure grease gun.	Weekly
Flip Sheave Pin			
Snatch Block Pin			
Worm Gear Bearings Grease Zerks (*Rotate crane while greasing)			
Rotation Worm Gear Teeth	Molub-Alloy 882 Heavy or equivalent	Brush or spray on.	Weekly

12000 25-foot Crane Recommended Spare Parts List

This parts list is intended to provide the user with a stock of parts sufficient to keep the unit operating with the minimal down-time waiting for parts, but it does not indicate these items will fail within a year. In addition, there may be parts failures not covered by this list. Parts not listed are considered as not being Critical or Normal Wear items during the first year of operations.

BASE & MAST ASSEMBLY		
73511254	HYDRAULIC MOTOR	1
72601949	CAP SCREW 0.50-13 X 1.25 SHZC	4
72601295	CAP SCREW .75-10 X 3.50 HEX HEAD GR8 Z	14
72601629	CAP SCREW .75-10 X 4.00 HEX HEAD GR8 Z	6
BOOM ASSEMBLY		
60030336	WEAR PAD-RC	1
60030438	WEAR PAD-ROUND	2
60030421	WEAR PAD-RC	1
60030422	WEAR PAD-ROUND	1
60030437	WEAR PAD-RC	4
60030425	WEAR PAD-ROUND	2
60030427	WEAR PAD-ROUND	4
60030442	WEAR PAD-ROUND	2
ANTI-TWO-BLOCK ASSEMBLY		
77041863	LIMIT SWITCH	1
CRANE & WINCH ASSEMBLY		
52718741	PIN (effective through 05/22/13)	2
52723036	PIN (effective through 05/22/13)	1
60140915	PIN - TYPE NN 2.0 X 13.75 (effective from 05/22/13)	2
60140916	PIN - TYPE NN 2.0 X 9.5 (effective from 05/22/13)	1
70731813	HOOK, SWIVEL	1
70580185	WIRE ROPE ASSEMBLY	1
60030102	SHEAVE	1
LOWER CYLINDER (51723137)		
94399132	SEAL KIT	1
51723929 CYLINDER (PART OF 51722968 EXT. CYLINDER ASSEMBLY)		
94399161	SEAL KIT	1
51723930 CYLINDER (PART OF 51726968 EXT. CYLINDER ASSEMBLY)		
94399162	SEAL KIT	1
WINCH (70570836)		
94397044	WINCH SEAL KIT	1
VALVE BANK (73734727)		
94399213	SEAL KIT, CONNECTION BLOCK	1
94399214	SEAL KIT, VALVE SECTIONS	1
77041898	SOLENOID, 12V	1

Installation Introduction

GENERAL

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

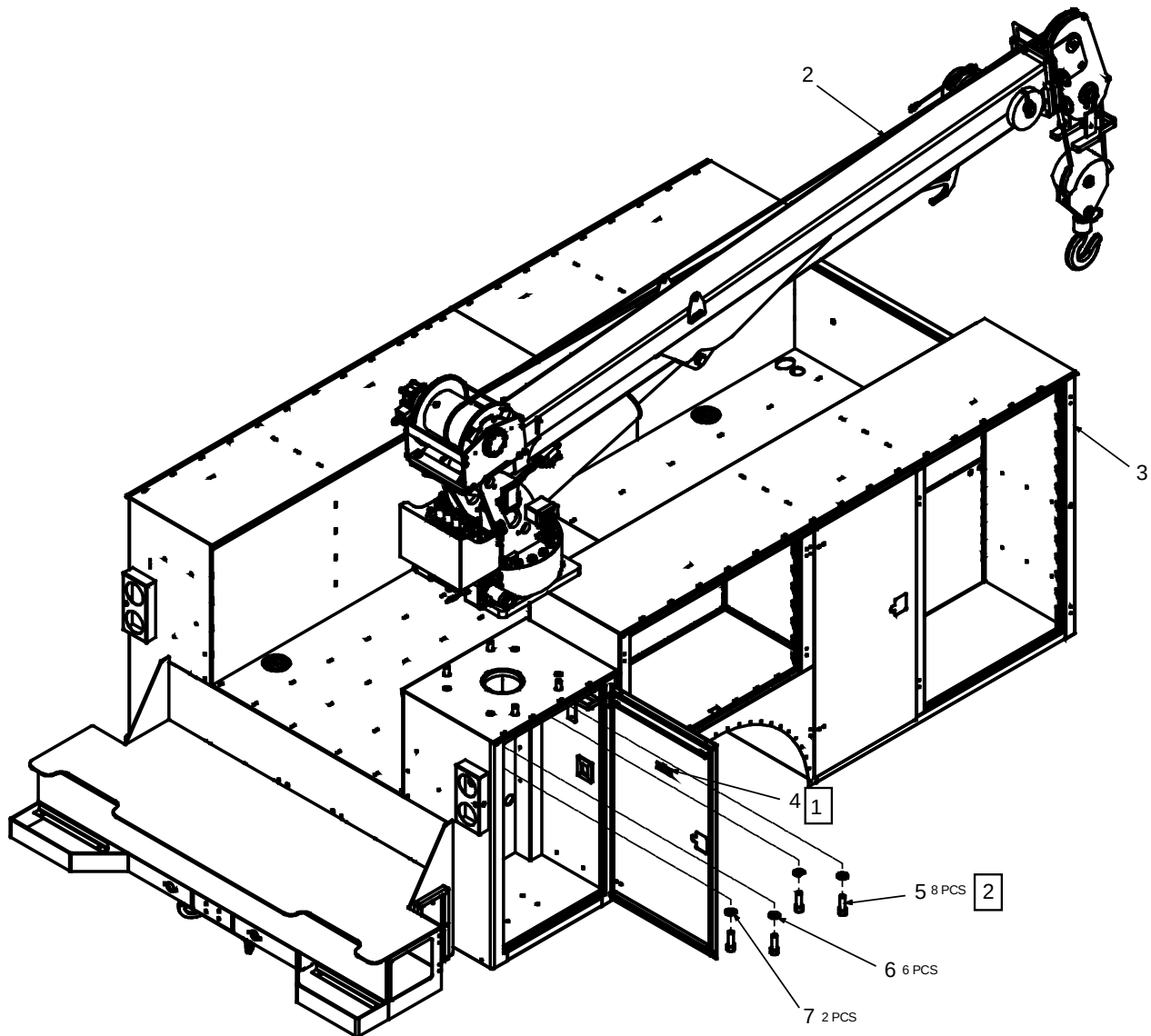
Reinforce the chassis frame, as necessary, and install the PTO and pump.

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

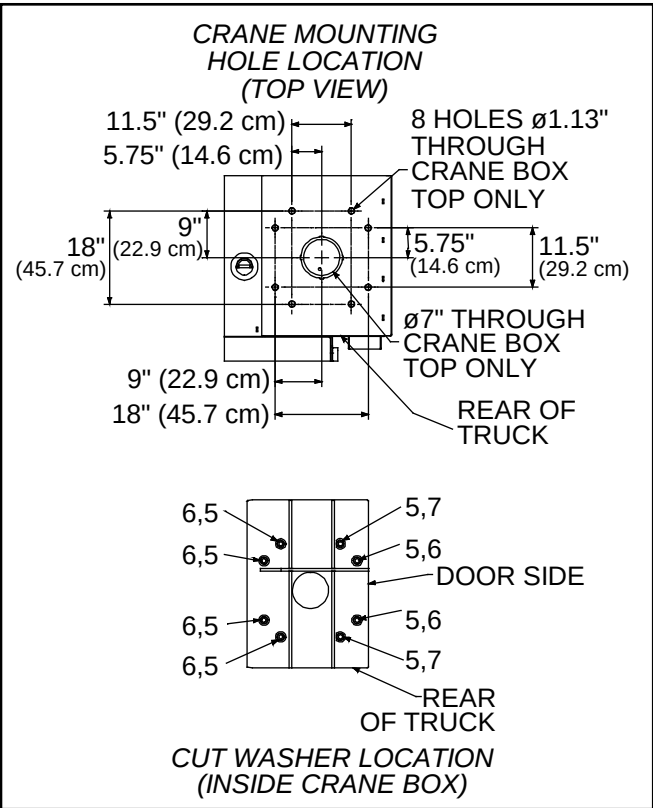
In addition to meeting Minimum Chassis Specifications, there must be sufficient room to mounting the crane and the platform must be strong enough to support the crane and rated load. Install the crane only on an IMT designed and approved truck body. The body must be designed to sustain the forces imposed 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.

Dom III - IV - 12000 - 14000 Crane Installation Kit (99905068)



NOTES (SEE REFERENCE NUMBER IN BOX):

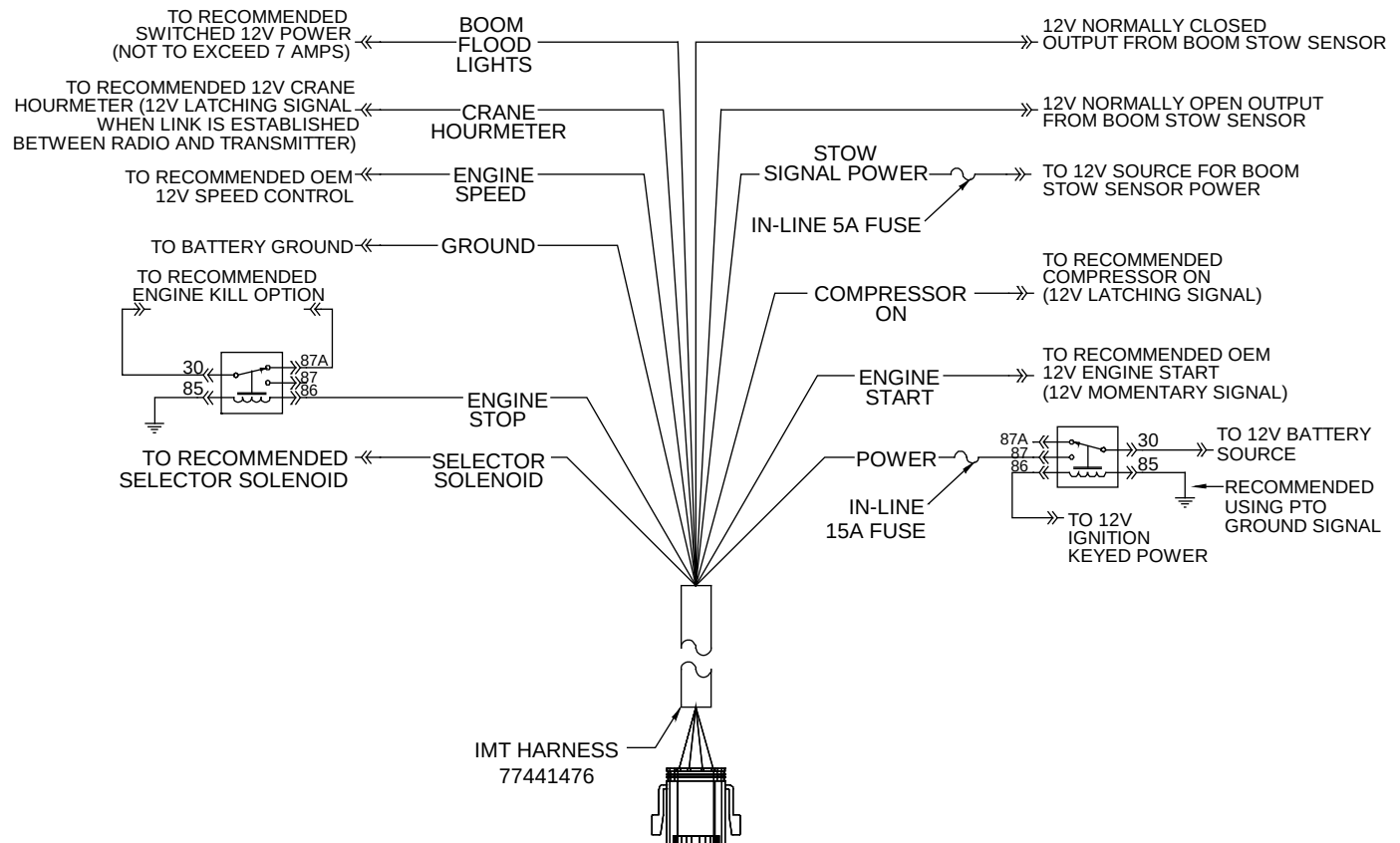
- 1 INSTALL THE LEVEL INDICATOR (72042097) PARALLEL TO THE DOOR REINFORCEMENTS.
- 2 TORQUE MOUNTING BOLTS TO 680 FT-LB (94 KG-M). (8 PLACES) USE THE SUPPLIED 3" (7.6 cm) BOLTS WITH A CRANE BOX TOP PLATE THICKNESS OF 1/2" TO 5/8" (1.3 cm TO 1.6 cm) ONLY. DETERMINE THE THICKNESS OF THE CRANE BOX TOP PLATE 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" (3.8 cm) THREAD ENGAGEMENT.



99905068 PARTS					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
1.	93713670	INSTALLATION KIT	12000-14000		1
2.	CRANE	CRANE ASSEMBLY			REF
3.	BODY	DOMINATOR BODY			REF
4.	72042097	LEVEL INDICATOR LEVEL		#1	1
5.	72601748	CAP SCREW	1.00- 8X 3.00 SH GR8	#1	8
6.	72063066	WASHER	1.00 FLAT HI STR	#1	6
7.	72063286	WASHER-FLAT	1.00 ASTM F436 Z-CUT		2
REV B 20110920					

Additional Installation Components, Non-IMT Body (93713748)

Chassis Wiring Harness (77441476 / 99905212)

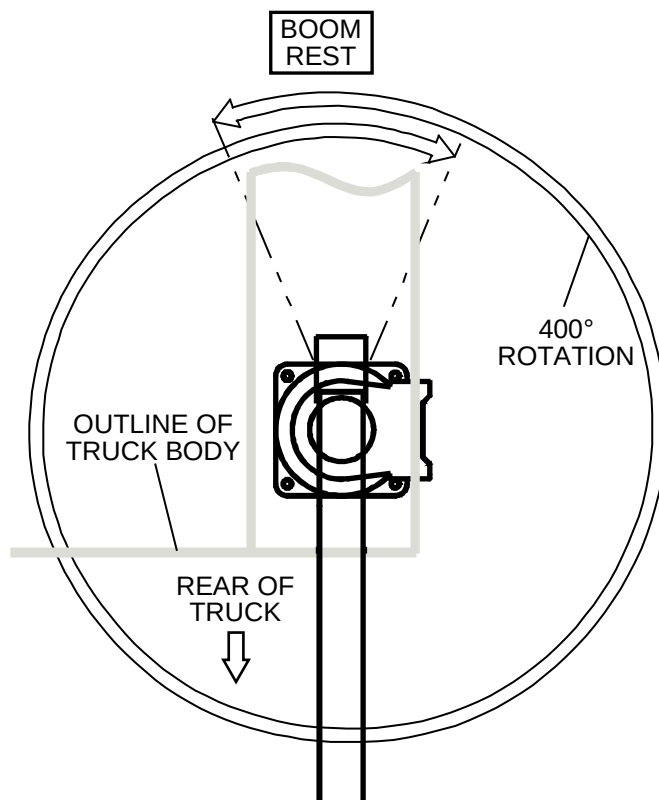


Filter (10 micron) (73052091)

Used on ship-out IMT telescopic cranes.

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° (3.14 radians) to the boom rest.



Crane Controls

IMT's telescopic cranes are controlled by radio remote controls. See the *Telescopic Crane Radio Remote System* manual, IMT # 99905114, for complete details on the radio remote system.

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Parts Information

GENERAL

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

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

CRANE IDENTIFICATION

Every IMT crane has an identification placard (see figure). 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:

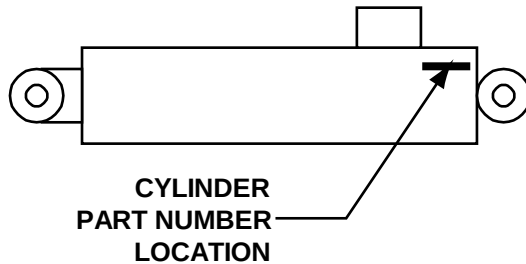
Iowa Mold Tooling Co., Inc.
Box 189, Garner, IA 50438-0189
Telephone: 641-923-3711
Technical Support Fax: 641-923-2424

IOWA MOLD TOOLING CO., INC. BOX 189, GARNER, IA 50438-0189	
MODEL NUMBER	
SERIAL NUMBER	
MFG DATE	

70029119

CYLINDER IDENTIFICATION

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



WELDMENT IDENTIFICATION

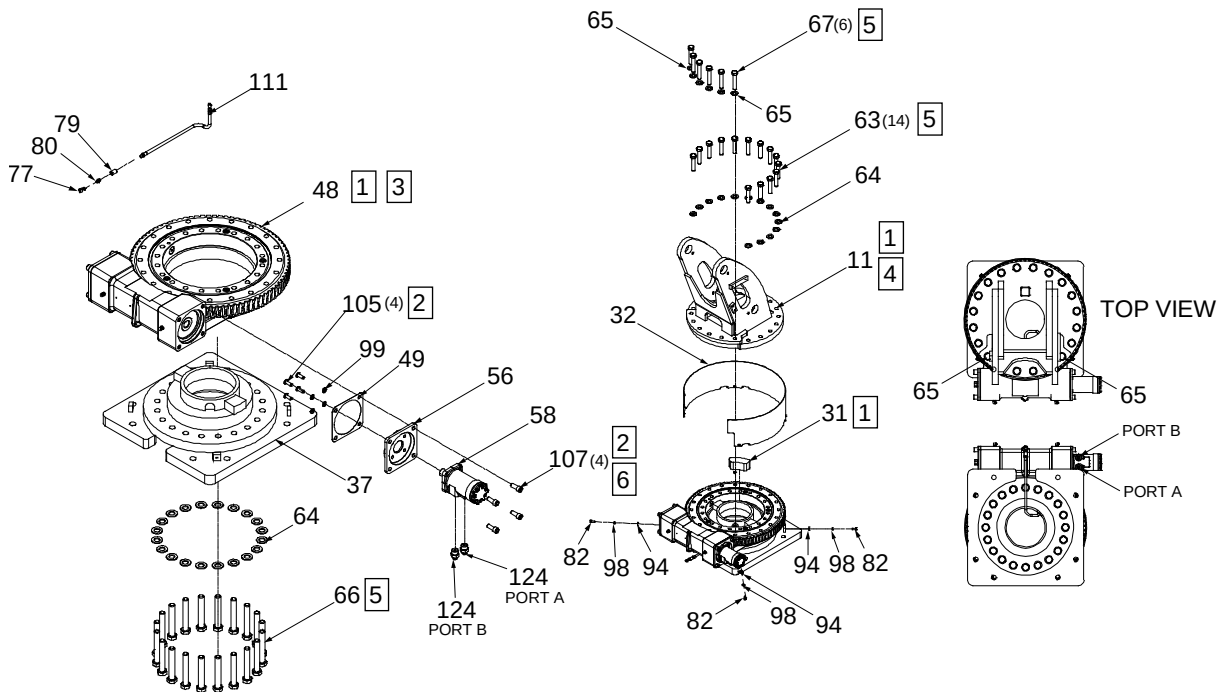
Each of the major weldments - base, mast, inner boom, outer boom, extension boom and stabilizer weldments bear a stamped part number. Any time a major weldment is replaced, you must specify the complete part number as stamped on the weldment. The locations of the part numbers are shown in the Crane Reference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

ORDERING REPAIR PARTS

When ordering replacement parts:

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

Base & Mast Assembly-Truck Mount (99904973) Effective 03/21/16



NOTES:

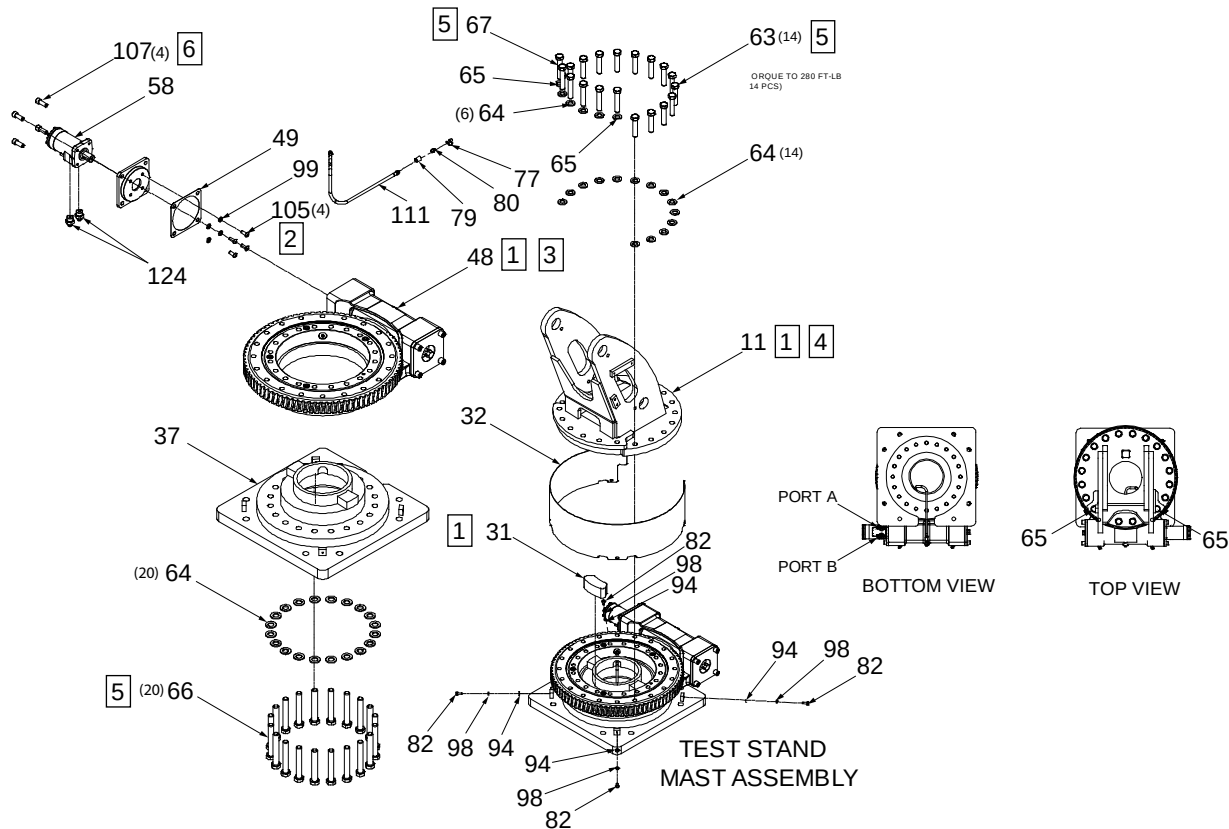
1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON TEETH GEAR.
4. BASE AND MAST ASSEMBLY AS SHOWN AS MOUNTED ON TRUCK.
5. TORQUE TO 280 FT-LB.
6. TORQUE TO 80 FT-LB.

99904973-3 PARTS LIST Effective 03/21/16

ITEM	PART NO.	DESCRIPTION	KIT	QTY
11	52725175	MAST WLDMNT-12000/14000		1
31	71414167	SLIDE-ROTATION STOP 12000/14000		1
37	52722991	BASE WLDMNT-12000/14000		1
48	71056674	GEAR-TRNTBL BRG 21.00" DIA		1
49	76398996	GASKET-GEAR 170-00055-1	#51	1
56	60136102	FLANGE ADAPTOR		1
58	73511254	MOTOR-HYD 101 1752 009		1
64	72063116	WASHER .75 N FLAT H ASTM F436Z	#1	38
65	72063285	WASHER-FLAT .75 H ASTM F436 Z-CUT	#1	2
66	72601466	CAP SCR .75-10X 5.00 HH GR8 Z	#1	20
67	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	#1	6
77	70034382	CAP-GREASE PRO20 GC-RED	#5	4
79	72053301	COUPLING-GLV .12 SCH 40	#5	1
80	72053508	ZERK-NPT .12	#5	4
82	72060002	CAP SCR .25-20X .75 HH GR5 Z	#5	4
94	72063001	WASHER .25 FLAT	#5	22

99904973-3 PARTS LIST Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
98	72063049	WASHER .25 LOCK	#5	6
99	72063051	WASHER .38 LOCK	#5	12
105	72601031	SCR-MACH .38-16X 1.00 BTNHD	#5	4
107	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
111	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	#6	1
124	72533613	ADPTR-M STR/M JIC 10 6	#6	2
REV. V 20160408				

Base & Mast Assembly – Test Stand (99904973) Effective 03/21/16



NOTES:

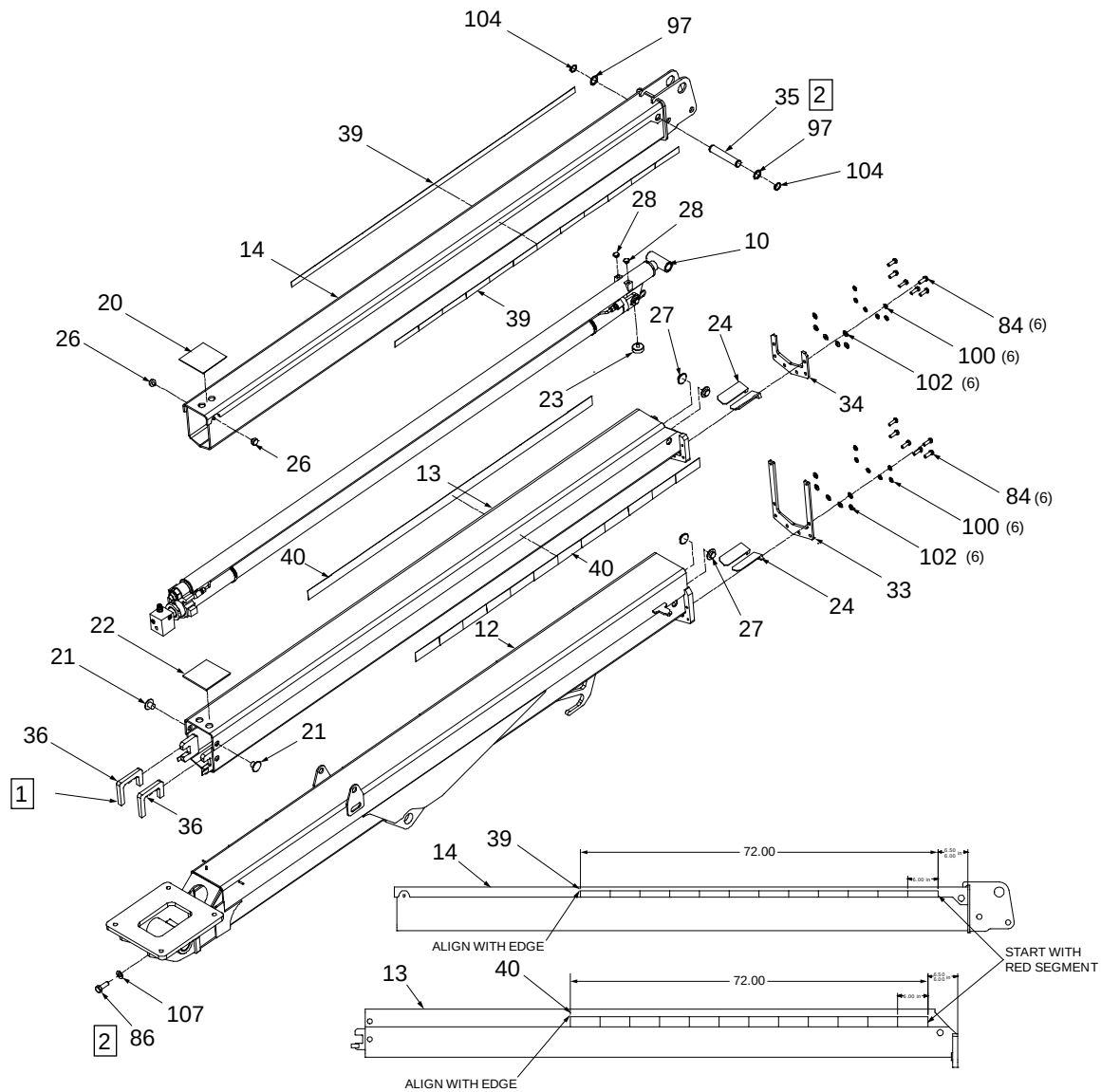
1. USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
2. APPLY BLUE THREAD LOCKER.
3. APPLY GEAR LUBE ON TEETH GEAR.
4. BASE & MAST ASSEMBLY AS SHOWN AS MOUNTED ON TEST STAND.
5. TORQUE TO 280 FT-LB.
6. TORQUE TO 80 FT-LB.

99904973-4 PARTS LIST EFFECTIVE 03/21/16

ITEM	PART NO.	DESCRIPTION	KIT	QTY
11	52725175	MAST WLDMNT-12000/14000		1
37	52722991	BASE WLDMNT-12000/14000		1
48	71056674	GEAR-TRNTBL BRG 21.00" DIA		1
49	76398996	GASKET-GEAR 170-00055-1	#51	1
58	73511254	MOTOR-HYD 101 1752 009		1
63	72601295	CAP SCR .75-10X 3.50 HH GR8 Z	#1	14

99904973-4 PARTS LIST EFFECTIVE 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
64	72063116	WASHER .75 N FLAT H ASTM F436Z	#1	38
65	72063285	WASHER-FLAT .75 H ASTM F436 Z-CUT	#1	2
66	72601466	CAP SCR .75-10X 5.00 HH GR8 Z	#1	20
67	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	#1	6
77	70034382	CAP-GREASE PRO20 GC-RED	#5	4
79	72053301	COUPLING-GLV .12 SCH 40	#5	1
80	72053508	ZERK-NPT .12	#5	4
82	72060002	CAP SCR .25-20X .75 HH GR5 Z	#5	4
94	72063001	WASHER .25 FLAT	#5	22
98	72063049	WASHER .25 LOCK	#5	6
99	72063051	WASHER .38 LOCK	#5	12
105	72601031	SCR-MACH .38-16X 1.00 BTNHD	#5	4
107	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
111	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	#6	1
124	72533613	ADPTR-M STR/M JIC 10 6	#6	2
REV. V 20160413				

Boom Assembly (99904973) Effective 3/16/16

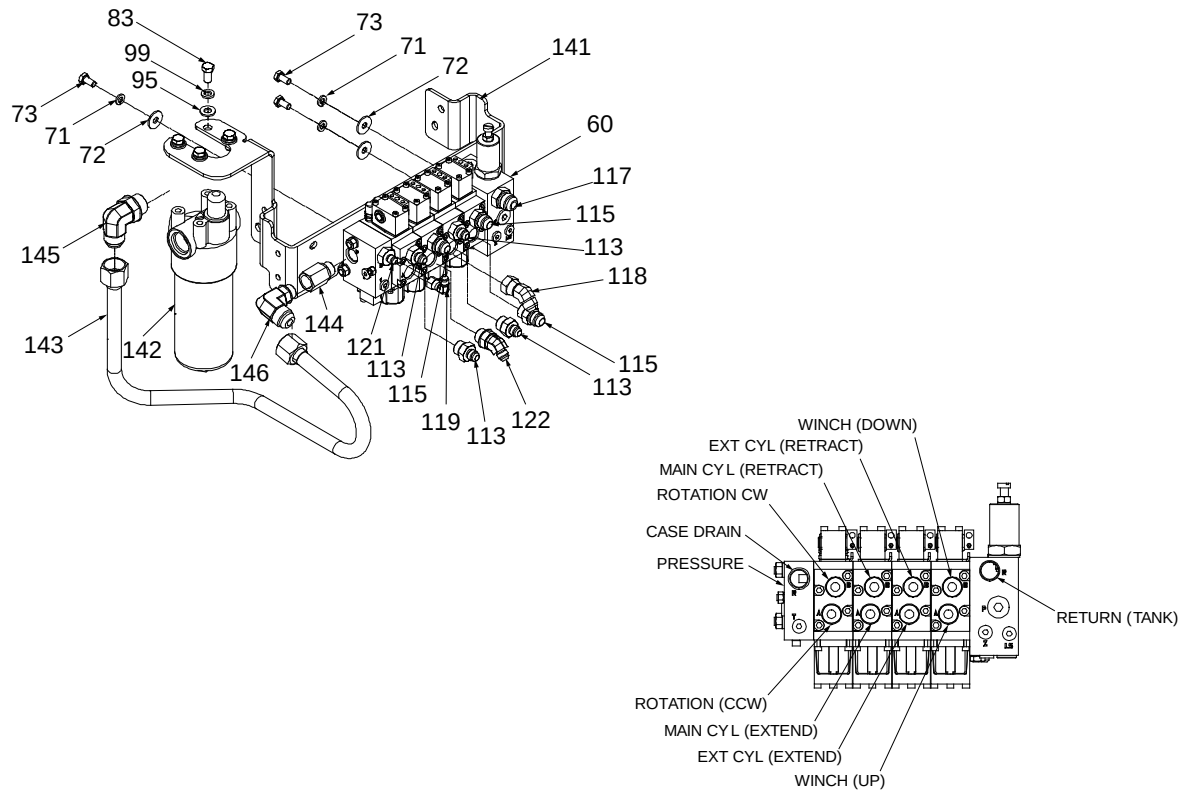


NOTES:

1. INSTALL EXTENSION CYLINDER FIRST. ADD RETAINERS NEXT, INSTALL WEAR PADS LAST.
2. TORQUE TO 280 FT-LB. USE BLUE THREAD LOCKER.

99904973-5 PARTS LIST EFFECTIVE 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
10	51722968	CYL ASM-2.50/1.75 2.75/1.75 150S 125.0CC		1
12	52725166	WLDMNT-LOWER BOOM 12000/14000S		1
13	52725167	WLDMNT-1st STAGE EXT BOOM 12000/14000S		1
14	52723218	WLDMNT-2ND STAGE EXT BOOM 12000/14000S		1
20	60030336	WEAR PAD-RC .19 X 6.00 X 6.00		1
21	60030438	WEAR PAD-RND 0.12X 2.00X 1.00X 1.00		2
22	60030421	WEAR PAD-RC 0.25X 6.00X 6.00		1
23	60030422	WEAR PAD-RND SIII EXT CYL		1
24	60030437	WEAR PAD-RC 0.19X 6.00X 2.25		4
26	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
27	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
28	60030442	WEAR PAD-RND 0.25X 1.00X .50X .38		2
33	60140899	CAP-LOWER BOOM CABLE GUIDE 9500-14000	#138	1
34	60135668	CAP-FIRST STAGE		1
35	60135669	PIN-TYPE A 1.25X 6.89 (6.46)		1
36	60135833	RETAINER-1st STAGE EXT CYL		2
39	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
40	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
84	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	#5	12
86	72060206	CAP SCR .75-10X 2.00 HH GR8 Z	#5	1
97	72063035	MACHY BUSHING 1.25X10 GA NR	#5	2
100	72063053	WASHER .50 LOCK	#5	12
102	72063132	WASHER .50 FLAT ASTM F436	#5	12
104	72066129	RETAINING RING-EXT 1.25 HD	#5	2
107	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
REV. V 20160413				

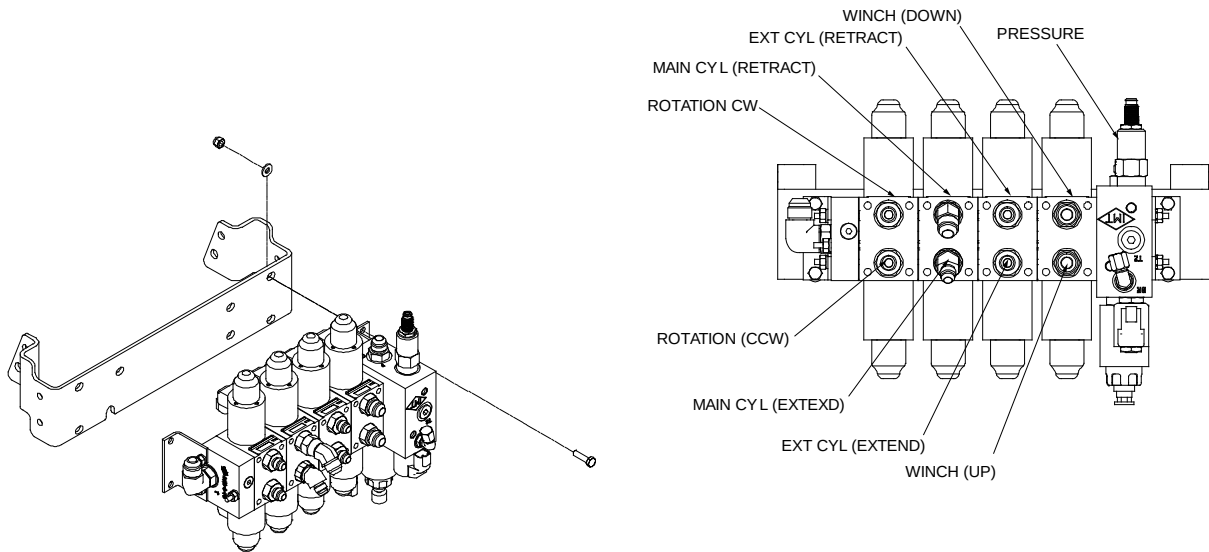
Valve Assembly – Fully Proportional (99904973) Effective 03/21/16



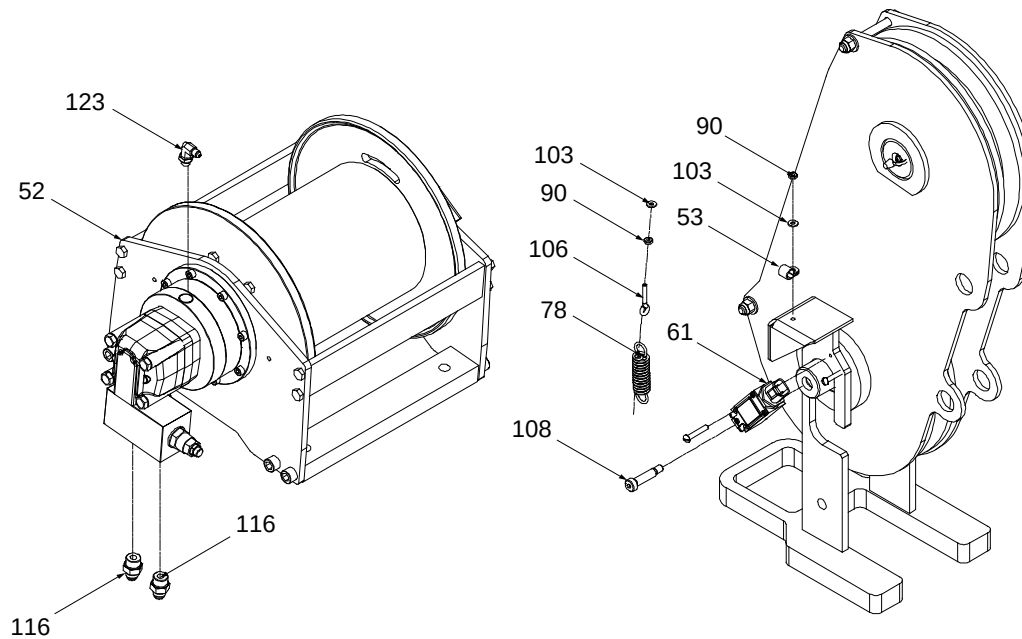
99904973-6 PARTS LIST Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
60	73734727	VALVE BANK-4SEC 4R 10GPM TELE PROP 12V G		A/R
71	72601797	WASHER-LOCK 8MM	#3	3
72	72602065	WASHER-FLAT M 8	#3	3
73	72602052	CAP SCR M 8-1.25X 16 HHZ	#3	3
83	72060044	CAP SCR .38-16X .75 HH GR5 Z	#5	8
95	72063003	WASHER .38 FLAT	#5	12
99	72063051	WASHER .38 LOCK	#5	12
113	72532356	ADPTR-M STR/M JIC 8 6	#6	4
115	72532358	ADPTR-M STR/M JIC 8 8	#6	3
117	72532361	ADPTR-M STR/M JIC 8 10	#6	1
118	72532670	ELBOW-M JIC/45/F JIC 8 8	#6	1
119	72532690	ELBOW-M JIC/90/F JIC SW 4 4	#6	1
121	72532792	ADPTR-M STR/M JIC 8 4	#6	1
122	72533583	ELBOW-M STR/45/M JIC 8 6	#6	1

99904973-6 PARTS LIST Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
141	60143080	BRKT-MAST VB 12000-14000 FP		1
142	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
144	72534898	O-RING EXTENDER 08-08		1
145	72053767	ELBOW-M STR/90/M JIC 12 12		1
146	72533623	ELBOW-M STR/90/M JIC 8 12		1
REV. V 20160413				

Valve Assembly – Single Proportional (99904973) Effective 03/21/16



Winch & Anti-Two-Block Assembly (99904973) Effective 03/21/16

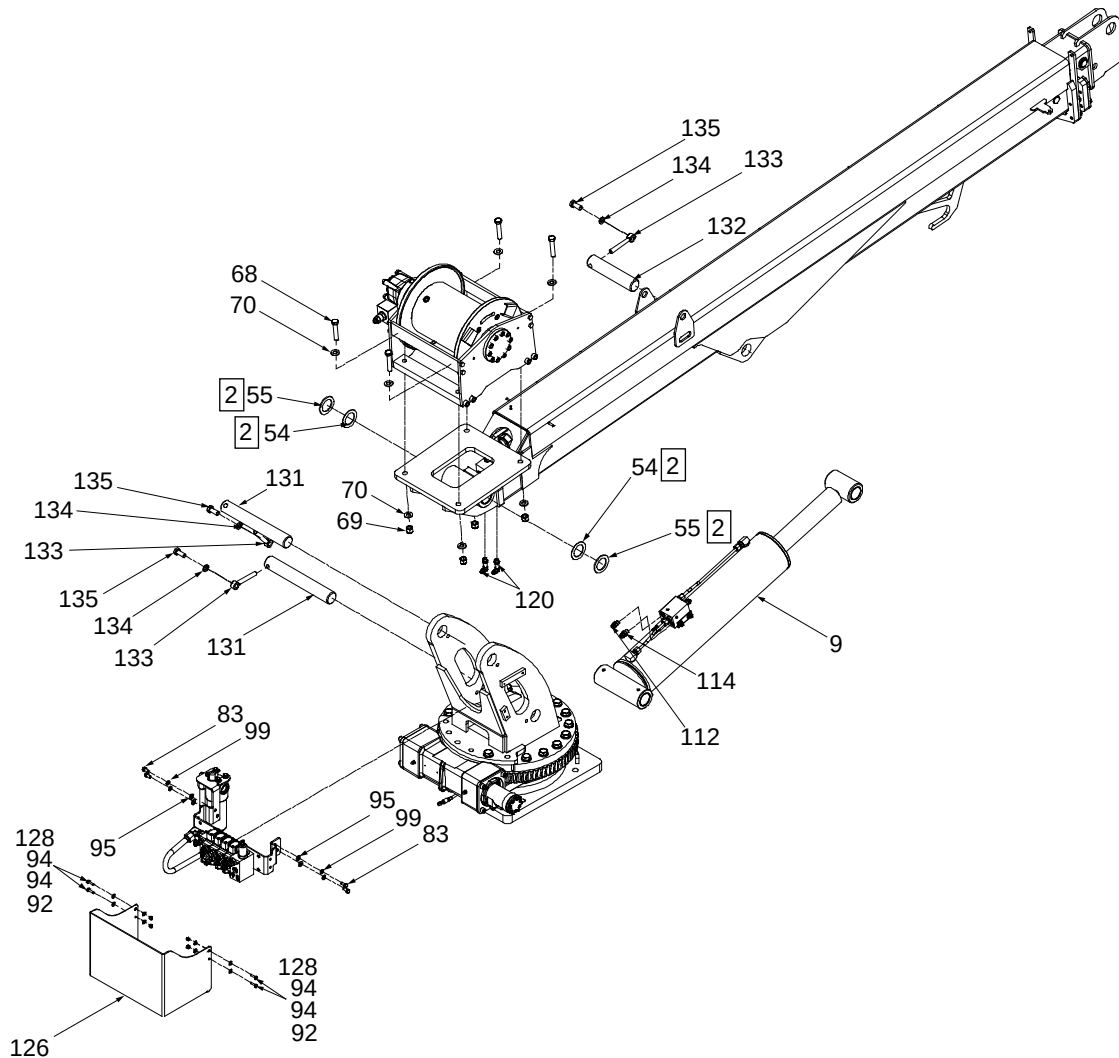


NOTE:

ITEM #123, CASE DRAIN.

99904973-8 PARTS LIST Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
52	70570836	WINCH-PLANETARY 7770 LB LINE PULL (A80)		1
53	72034485	CLAMP-PLASTIC 1/4" CABLE		8
61	77041863	SWITCH-LIMIT DT04-4P CONN		1
90	72062093	NUT # 8-32 HEX ZINC	#5	2
108	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	#5	1
116	72532359	ADPTR-M STR/M JIC 10 8	#6	2
118	72532670	ELBOW-M JIC/45/F JIC 8 8	#6	1
123	72534474	ELBOW-M BSPP/90/M JIC 4 4	#6	1
REV. V 20160413				

Crane & Winch Assembly (99904973) Effective 03/21/16



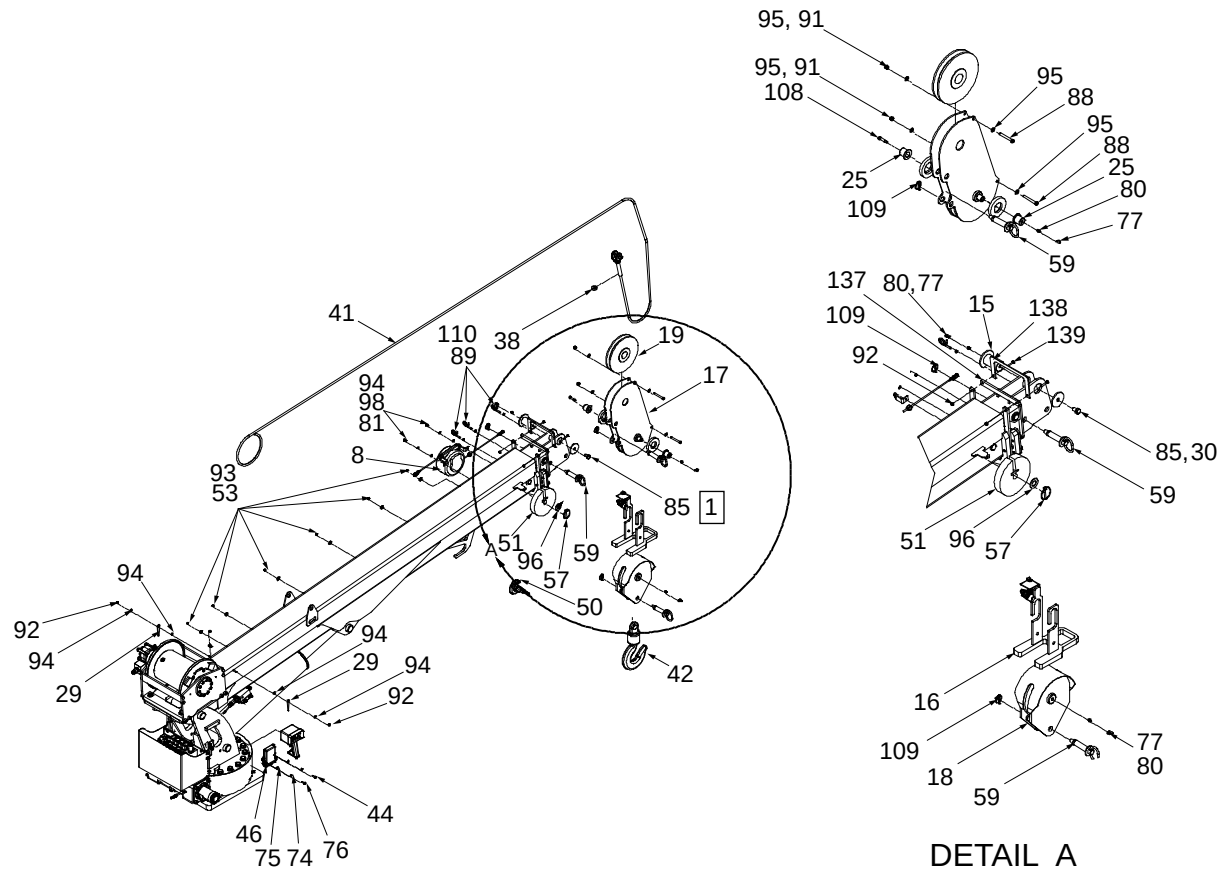
NOTES:

1. APPLY ANTI-SEIZ TO BOOM AND CYLINDER MOUNTING PINS. **DO NOT** ALLOW ANTI-SEIZ TO COME IN CONTACT WITH BOOM OR CYLINDER PIN BOSS BEARING.
2. IF REQUIRED, USE 72063038 OR 72063039, MACHNY BUSHINGS, BETWEEN MAST AND LOWER BOOM.

99904973-9 PARTS LIST Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
9	51723137	CYL-5.5/3.0 25.07S 45.44CC C		1
54	72063038	MACHY BUSHING 2.00X14 GA NR		A/R
55	72063039	MACHY BUSHING 2.00X10 GA NR		A/R
68	72060932	CAP SCR .62-11X 3.25 HH GR5 Z	#2	4

69	72062091	NUT .62-11 HEX NYLOCK	#2	4
70	72063007	WASHER .62 FLAT	#2	8
83	72060044	CAP SCR .38-16X .75 HH GR5 Z	#5	8
92	72062104	NUT .25-20 HEX NYLOCK	#5	6
94	72063001	WASHER .25 FLAT	#5	22
95	72063003	WASHER .38 FLAT	#5	12
99	72063051	WASHER .38 LOCK	#5	12
112	72532355	ADPTR-M STR/M JIC 6 6	#6	1
114	72532357	ADPTR-M STR/M JIC 6 8	#6	1
120	72532700	ELBOW-M STR/90/M JIC XLG 6 6	#6	2
128	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	#5	8
131	60140915	PIN-TYPE NN 2.00X13.75		2
132	60140916	PIN-TYPE NN 2.00X 9.50		1
133	71415016	KEEPER-PIN .62		3
134	72063055	WASHER .62 LOCK	#5	3
135	72060149	CAP SCR .62-11X 1.50 HH GR5 Z	#5	3
REV. V 20160413				

Flip Sheave Assembly (99904973) Effective 03/21/16



99904973 PARTS LIST Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
8	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
15	52723069	PIN-TYPE M 2.00X 3.38		1
16	52725155	WLDMT- A2B BRKT		1
17	52723067	WLDMT- FLIP SHEAVE 12000/14000		1
18	52723070	WLDMT- SNATCH BLOCK 12000/14000		1
19	60030102	SHEAVE-10.50 POLYMER		1
25	60030487	CAP- A2B PIN		2
29	70034490	PLATE-ANGLE PLASTIC 3.50"		2
30	60109337	RETAINER PLT-PIN 3.00 DIA		1
38	70145121	COLLAR-SHAFT 2 PIECE 7/8 in.		1
41	70580185	CABLE ASM-1200in .50 6X31 WS IWRC XIP LR		1
42	70731813	HOOK-SWVL 7EH W/3214 LCH ASM		1

99904973 PARTS LIST Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
44	70734761	TRANSMITTER-RAD REM TELE S3 NON-G W-HORN		A/R
46	70734763	RECEIVER-RADIO REMOTE TELE SIII W-HORN		A/R
50	71073035	HOOK-SWVL L322 AN 5.0T W/LATCH		1
51	71414205	PLATE-SINGLE SHEAVE (20#) .50 WIRE ROPE		1
53	72034485	CLAMP-PLASTIC 1/4" CABLE		8
57	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW		1
59	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		3
74	72063142	WASHER-SS .25 LOCK TYPE 304	#4	2
75	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	#4	2
76	72601330	CAP SCR .25-20X 1.00 HH SS	#4	2
77	70034382	CAP-GREASE PRO20 GC-RED	#5	4
80	72053508	ZERK-NPT .12	#5	4
85	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	#5	1
88	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	#5	2
89	72062000	NUT .25-20 HEX	#5	3
91	72062103	NUT .38-16 HEX NYLOCK	#5	2
92	72062104	NUT .25-20 HEX NYLOCK	#5	6
93	72062106	NUT 10-24 HEX NYLOCK	#5	7
94	72063001	WASHER .25 FLAT	#5	22
95	72063003	WASHER .38 FLAT	#5	12
96	72063010	WASHER 1.00 FLAT	#5	1
98	72063049	WASHER .25 LOCK	#5	6
108	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	#5	1
109	72661543	PIN-QUICK 316-10QP	#5	3
110	72661694	BRIDLE RING 1-1/12ID X 1/4-20	#5	3
137	60140935	GUIDE - CABLE WEAR (WIDE)	#138	1
138	60140938	BRKT - CABLE GUIDE (WIDE)	#138	1
139	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	#138	2

12000 25-Ft, Complete Parts List (99904973)

99904973 Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
1	91723089	KIT-HRDW BASE & MAST 12000/14000		1
2	51720680	KIT-HRDW A80 WINCH MNT		1
3	91723543	KIT-HRDW VB MNT HAWK		1
4	91723583	KIT-HRDW SIII RADIO CONTROLS		1
5	91725206	KIT-HRDW SERIES III 12000/14000		1
6	91723618	KIT-HYD A80 SERIES III		A/R
7	91725089	KIT-HYD A80 SERIES III SP		A/R
8	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH		1
9	51723137	CYL-5.5/3.0 25.07S 45.44CC C		1
10	51722968	CYL ASM-2.50/1.75 2.75/1.75 150S 125.0CC		1
11	52725175	MAST WLDMNT-12000/14000		1
12	52725166	WLDMNT-LOWER BOOM 12000/14000S		1
13	52725167	WLDMNT-1st STAGE EXT BOOM 12000/14000S		1
14	52723218	WLDMNT-2ND STAGE EXT BOOM 12000/14000S		1
15	52723069	PIN-TYPE M 2.00X 3.38		1
16	52725155	WLDMT- A2B BRKT		1
17	52723067	WLDMT- FLIP SHEAVE 12000/14000		1
18	52723070	WLDMT- SNATCH BLOCK 12000/14000		1
19	60030102	SHEAVE-10.50 POLYMER		1
20	60030336	WEAR PAD-RC .19 X 6.00 X 6.00		1
21	60030438	WEAR PAD-RND 0.12X 2.00X 1.00X 1.00		2
22	60030421	WEAR PAD-RC 0.25X 6.00X 6.00		1
23	60030422	WEAR PAD-RND SIII EXT CYL		1
24	60030437	WEAR PAD-RC 0.19X 6.00X 2.25		4
25	60030487	CAP- A2B PIN		2
26	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
27	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
28	60030442	WEAR PAD-RND 0.25X 1.00X .50X .38		2
29	70034490	PLATE-ANGLE PLASTIC 3.50"		2
30	60109337	RETAINER PLT-PIN 3.00 DIA		1
31	71414167	SLIDE-ROTATION STOP 12000/14000		1
32	60136007	GEAR GUARD 12000/14000		1
33	60140899	CAP-LOWER BOOM CABLE GUIDE 9500-14000	#138	1
34	60135668	CAP-FIRST STAGE		1
35	60135669	PIN-TYPE A 1.25X 6.89 (6.46)		1
36	60135833	RETAINER-1st STAGE EXT CYL		2
37	52722991	BASE WLDMNT-12000/14000		1

99904973 Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
38	70145121	COLLAR-SHAFT 2 PIECE 7/8 in.		1
39	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
40	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
41	70580185	CABLE ASM-1200in .50 6X31 WS IWRC XIP LR		1
42	70731813	HOOK-SWVL 7EH W/3214 LCH ASM		1
43	70734762	TRANSMITTER-RAD REM TELE S3 GATED W-HORN		A/R
44	70734761	TRANSMITTER-RAD REM TELE S3 NON-G W-HORN		A/R
45	70734748	TRANSMITTER-S3 TELE SINGLE PROP		A/R
46	70734763	RECEIVER-RADIO REMOTE TELE SIII W-HORN		A/R
47	70734750	RECEIVER-S3 TELE SINGLE PROP		A/R
48	71056674	GEAR-TRNTBL BRG 21.00" DIA		1
49	76398996	GASKET-GEAR 170-00055-1	#51	1
50	71073035	HOOK-SWVL L322 AN 5.0T W/LATCH		1
51	71414205	PLATE-SINGLE SHEAVE (20#) .50 WIRE ROPE		1
52	70570836	WINCH-PLANETARY 7770 LB LINE PULL (A80)		1
53	72034485	CLAMP-PLASTIC 1/4" CABLE		8
54	72063038	MACHY BUSHING 2.00X14 GA NR		A/R
55	72063039	MACHY BUSHING 2.00X10 GA NR		A/R
56	60136102	FLANGE ADAPTOR		1
57	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW		1
58	73511254	MOTOR-HYD 101 1752 009		1
59	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		3
60	73734727	VALVE BANK-4SEC 4R 10GPM TELE PROP 12V G		A/R
61	77041863	SWITCH-LIMIT DT04-4P CONN		1
62	77441481	HARNESS-TELE RADIO REMOTE SERIES III		A/R
63	72601295	CAP SCR .75-10X 3.50 HH GR8 Z	#1	14
64	72063116	WASHER .75 N FLAT H ASTM F436Z	#1	38
65	72063285	WASHER-FLAT .75 H ASTM F436 Z-CUT	#1	2
66	72601466	CAP SCR .75-10X 5.00 HH GR8 Z	#1	20
67	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	#1	6
68	72060932	CAP SCR .62-11X 3.25 HH GR5 Z	#2	4
69	72062091	NUT .62-11 HEX NYLOCK	#2	4
70	72063007	WASHER .62 FLAT	#2	8
71	72601797	WASHER-LOCK 8MM	#3	3
72	72602065	WASHER-FLAT M 8	#3	3
73	72602052	CAP SCR M 8-1.25X 16 HHZ	#3	3
74	72063142	WASHER-SS .25 LOCK TYPE 304	#4	2
75	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	#4	2

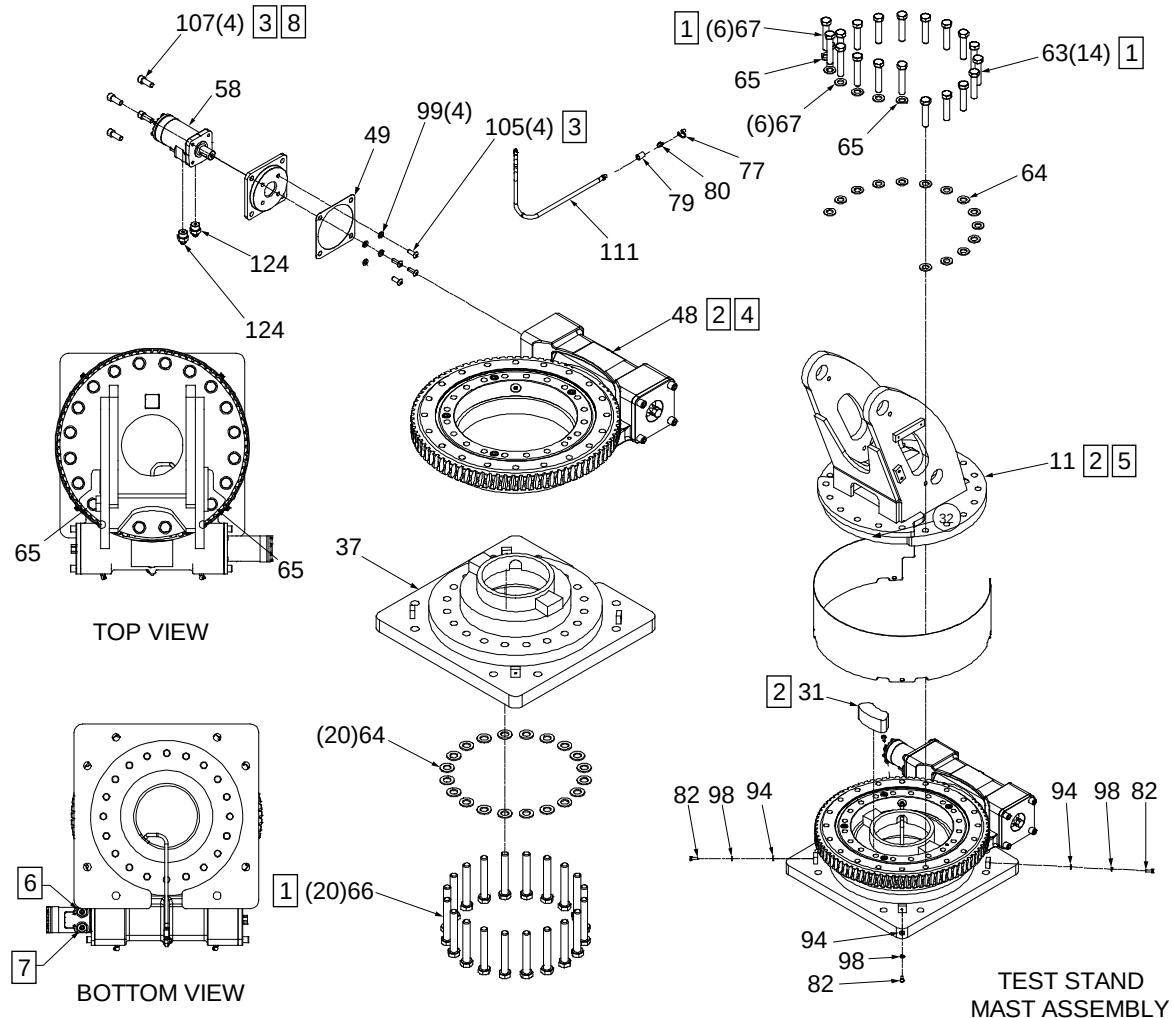
99904973 Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
76	72601330	CAP SCR .25-20X 1.00 HH SS	#4	2
77	70034382	CAP-GREASE PRO20 GC-RED	#5	4
78	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	#5	1
79	72053301	COUPLING-GLV .12 SCH 40	#5	1
80	72053508	ZERK-NPT .12	#5	4
81	72060000	CAP SCR .25-20X .50 HH GR5 Z	#5	2
82	72060002	CAP SCR .25-20X .75 HH GR5 Z	#5	4
83	72060044	CAP SCR .38-16X .75 HH GR5 Z	#5	8
84	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	#5	12
85	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	#5	1
86	72060206	CAP SCR .75-10X 2.00 HH GR8 Z	#5	1
87	72060639	SCR-MACH 10-24X 1.25 RDH	#5	2
88	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	#5	2
89	72062000	NUT .25-20 HEX	#5	3
90	72062093	NUT # 8-32 HEX ZINC	#5	2
91	72062103	NUT .38-16 HEX NYLOCK	#5	2
92	72062104	NUT .25-20 HEX NYLOCK	#5	6
93	72062106	NUT 10-24 HEX NYLOCK	#5	7
94	72063001	WASHER .25 FLAT	#5	22
95	72063003	WASHER .38 FLAT	#5	12
96	72063010	WASHER 1.00 FLAT	#5	1
97	72063035	MACHY BUSHING 1.25X10 GA NR	#5	2
98	72063049	WASHER .25 LOCK	#5	6
99	72063051	WASHER .38 LOCK	#5	12
100	72063053	WASHER .50 LOCK	#5	12
101	72063116	WASHER-FLAT .75 N H ASTM F436 Z	#5	1
102	72063132	WASHER .50 FLAT ASTM F436	#5	12
103	72063271	WASHER # 8 W FLAT ANSI B27.2Z	#5	2
104	72066129	RETAINING RING-EXT 1.25 HD	#5	2
105	72601031	SCR-MACH .38-16X 1.00 BTNHD	#5	4
106	72601938	BOLT-EYE # 8-32X 1.125	#5	1
107	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
108	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	#5	1
109	72661543	PIN-QUICK 316-10QP	#5	3
110	72661694	BRIDLE RING 1-1/12ID X 1/4-20	#5	3
111	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	#6	1
112	72532355	ADPTR-M STR/M JIC 6 6	#6	1
113	72532356	ADPTR-M STR/M JIC 8 6	#6	4
114	72532357	ADPTR-M STR/M JIC 6 8	#6	1

99904973 Effective 03/21/16				
ITEM	PART NO.	DESCRIPTION	KIT	QTY
115	72532358	ADPTR-M STR/M JIC 8 8	#6	3
116	72532359	ADPTR-M STR/M JIC 10 8	#6	2
117	72532361	ADPTR-M STR/M JIC 8 10	#6	1
118	72532670	ELBOW-M JIC/45/F JIC 8 8	#6	1
119	72532690	ELBOW-M JIC/90/F JIC SW 4 4	#6	1
120	72532700	ELBOW-M STR/90/M JIC XLG 6 6	#6	2
121	72532792	ADPTR-M STR/M JIC 8 4	#6	1
122	72533583	ELBOW-M STR/45/M JIC 8 6	#6	1
123	72534474	ELBOW-M BSPP/90/M JIC 4 4	#6	1
124	72533613	ADPTR-M STR/M JIC 10 6	#6	2
125	93725207	KIT-CABLE GUIDE 9500/14000		1
126	60144215	COVER-VALVE BANK SIII		1
127	60140857	BRKT-MAST VB 12000-14000		1
128	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	#5	8
129	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
130	77441537	HARNESS-S3 TELE S-PROP VALVE BANK CERVIS		A/R
131	60140915	PIN-TYPE NN 2.00X13.75		2
132	60140916	PIN-TYPE NN 2.00X 9.50		1
133	71415016	KEEPER-PIN .62		3
134	72063055	WASHER .62 LOCK	#5	3
135	72060149	CAP SCR .62-11X 1.50 HH GR5 Z	#5	3
136	60030488	SPACER-A2B BRACKET		2
137	60140935	GUIDE - CABLE WEAR (WIDE)	#138	1
138	60140938	BRKT - CABLE GUIDE (WIDE)	#138	1
139	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	#138	2
140	72062104	NUT .25-20 HEX NYLOCK	#138	2
141	60143080	BRKT-MAST VB 12000-14000 FP		1
142	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
143	71415692	TUBE ASM-PRESSURE FILTER S3FP 12K 14K MA		1
144	72534898	O-RING EXTENDER 08-08		1
145	72053767	ELBOW-M STR/90/M JIC 12 12		1
146	72533623	ELBOW-M STR/90/M JIC 8 12		1
REV. V 20160413				

Base & Mast Assembly, Test Stand (99904973)

(See Parts List for Effectivity Dates)

NOTE: This base and mast assembly is shown as it if it were mounted on a test stand.



NOTES (SEE REFERENCE NUMBER IN BOX):

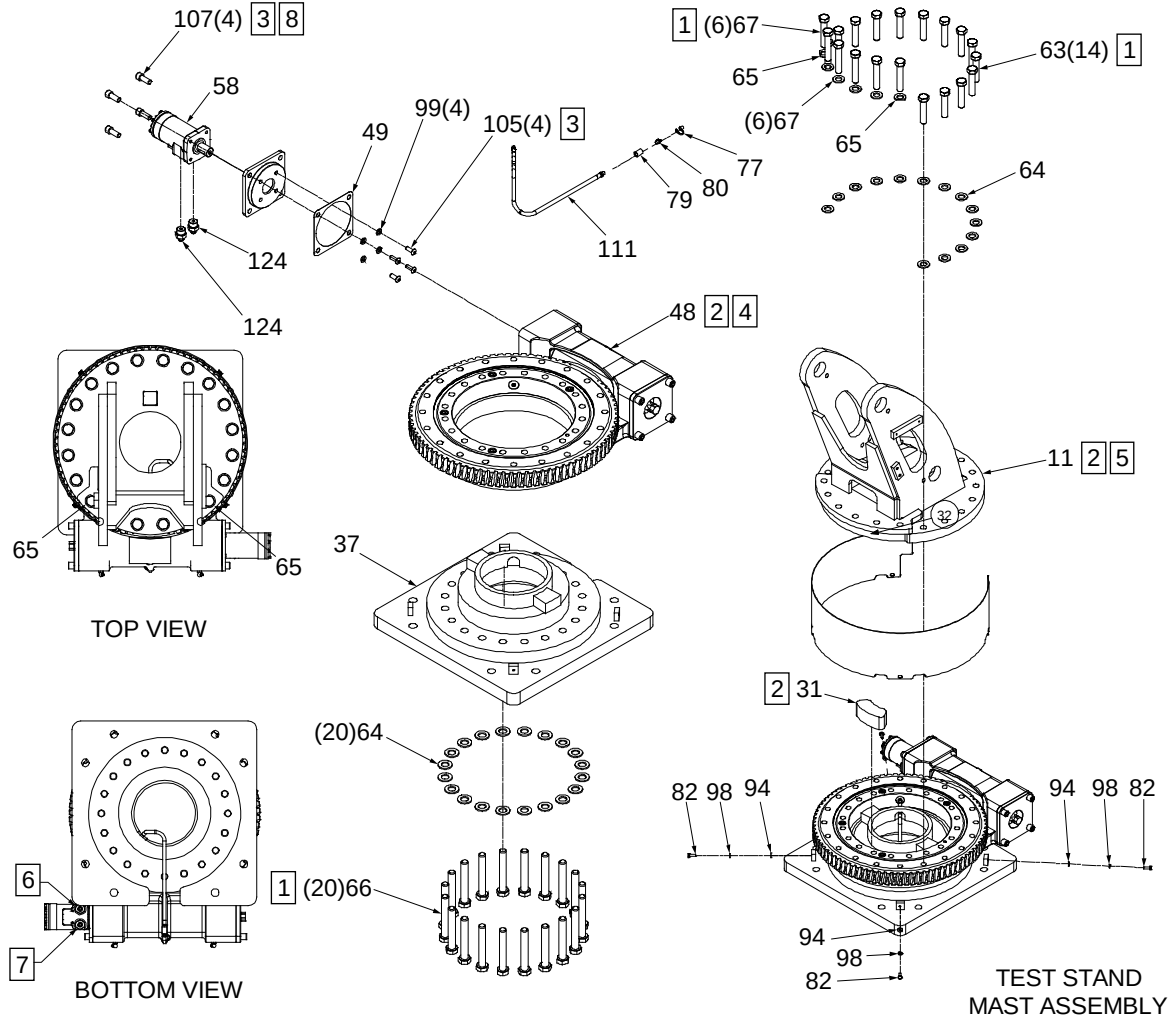
- 1 TORQUE TO 280 FT-LB (38.7 KG-M)
- 2 USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
- 3 APPLY BLUE THREAD LOCKER.
- 4 APPLY GEAR LUBE ON GEAR TEETH.
- 5 BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON THE TEST STAND. NOTE ORIENTATION OF MOTOR.
- 6 PORT A
- 7 PORT B
- 8 TORQUE TO 80 FT-LB (11.1 KG-M)
- 9 GREASE ZERK PLUG

BASE & MAST ASSEMBLY PARTS LIST, MOUNTED ON TEST STAND (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
1.	91723089	KIT-HRDW BASE & MAST 12000/14000		1
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
11.	52725175	MAST WLDMNT-12000/14000 (eff. from 04/08/13)		1
31.	71414167	SLIDE-ROTATION STOP 12000/14000		1
37.	52722991	BASE WLDMNT-12000/14000		1
48.	71056674	GEAR-TRNTBL BRG 21.00" DIA		1
49.	76398996	GASKET-GEAR 170-00055-1	#48	1
58.	73511254	MOTOR-HYD 101 1752 009 (eff. from 11/30/11)		1
63.	72601295	CAP SCR .75-10X 3.50 HH GR8 Z	#1	14
64.	72063116	WASHER .75 N FLAT H ASTM F436Z	#1	38
65.	72063285	WASHER-FLAT .75 H ASTM F436 Z-CUT	#1	2
66.	72601466	CAP SCR .75-10X 5.00 HH GR8 Z	#1	20
67.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	#1	6
77.	70034382	CAP-GREASE PRO20 GC-RED	#5	4
79.	72053301	COUPLING-GLV .12 SCH 40	#5	1
80.	72053508	ZERK-NPT .12	#5	4
82.	72060002	CAP SCR .25-20X .75 HH GR5 Z	#5	4
94.	72063001	WASHER .25 FLAT	#5	18
98.	72063049	WASHER .25 LOCK	#5	10
99.	72063051	WASHER .38 LOCK	#5	12
105.	72601031	SCR-MACH .38-16X 1.00 BTNHD	#5	4
107.	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
111.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	#6,#7	1
124.	72533613	ADPTR-M STR/M JIC 10 6	#6,#7	2
REV T 20150911				

Base & Mast Assembly, Test Stand (99904973)

(See Parts List for Effectivity Dates)

NOTE: This base and mast assembly is shown as it if it were mounted on a test stand.



NOTES (SEE REFERENCE NUMBER IN BOX):

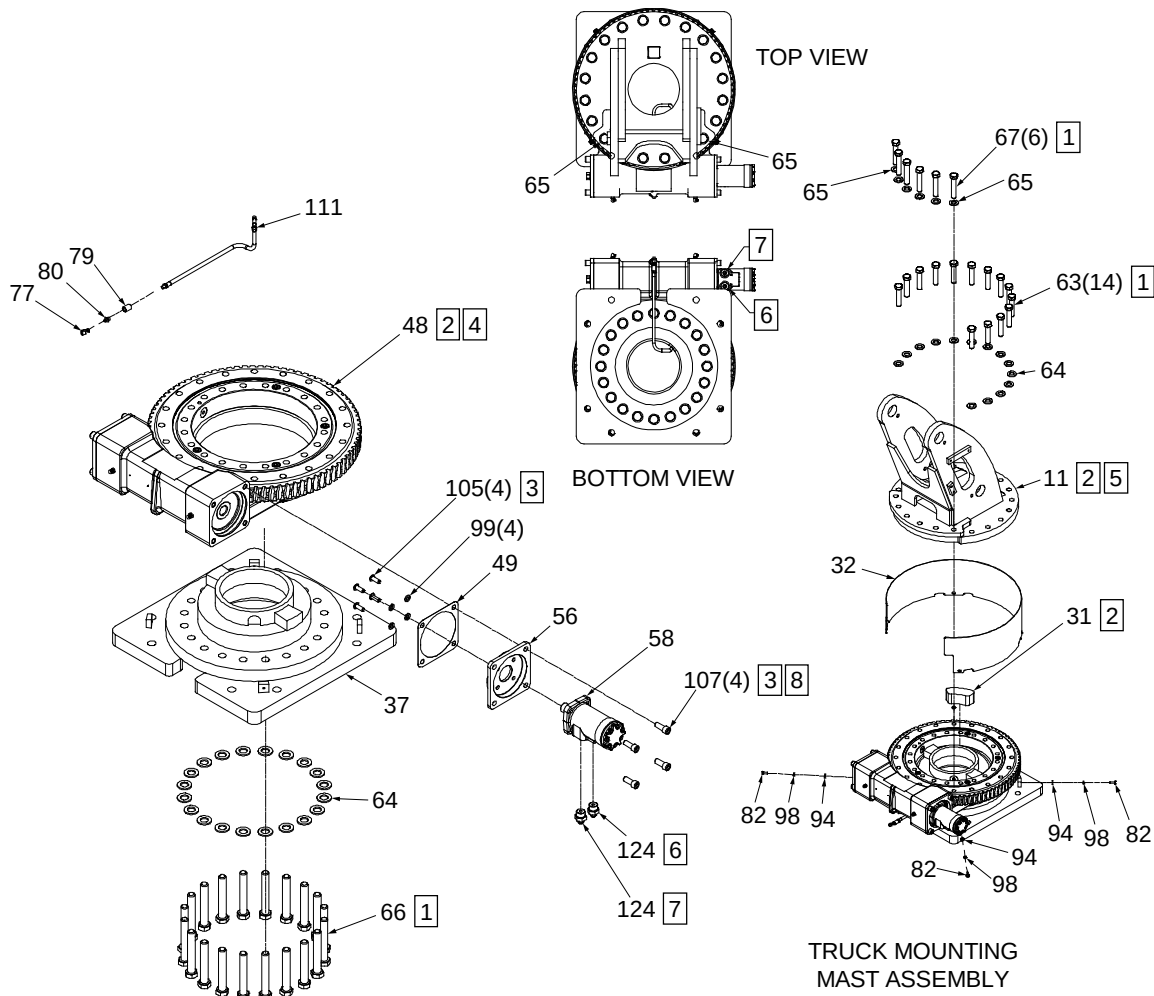
- 1 TORQUE TO 280 FT-LB (38.7 KG-M)
- 2 USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
- 3 APPLY BLUE THREAD LOCKER.
- 4 APPLY GEAR LUBE ON GEAR TEETH.
- 5 BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON THE TEST STAND. NOTE ORIENTATION OF MOTOR.
- 6 PORT A
- 7 PORT B
- 8 TORQUE TO 80 FT-LB (11.1 KG-M)
- 9 GREASE ZERK PLUG

BASE & MAST ASSEMBLY PARTS LIST, MOUNTED ON TEST STAND (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
1.	91723089	KIT-HRDW BASE & MAST 12000/14000		1
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
11.	52725175	MAST WLDMNT-12000/14000 (eff. from 04/08/13)		1
31.	71414167	SLIDE-ROTATION STOP 12000/14000		1
37.	52722991	BASE WLDMNT-12000/14000		1
48.	71056674	GEAR-TRNTBL BRG 21.00" DIA		1
49.	76398996	GASKET-GEAR 170-00055-1	#48	1
58.	73511254	MOTOR-HYD 101 1752 009 (eff. from 11/30/11)		1
63.	72601295	CAP SCR .75-10X 3.50 HH GR8 Z	#1	14
64.	72063116	WASHER .75 N FLAT H ASTM F436Z	#1	38
65.	72063285	WASHER-FLAT .75 H ASTM F436 Z-CUT	#1	2
66.	72601466	CAP SCR .75-10X 5.00 HH GR8 Z	#1	20
67.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	#1	6
77.	70034382	CAP-GREASE PRO20 GC-RED	#5	4
79.	72053301	COUPLING-GLV .12 SCH 40	#5	1
80.	72053508	ZERK-NPT .12	#5	4
82.	72060002	CAP SCR .25-20X .75 HH GR5 Z	#5	4
94.	72063001	WASHER .25 FLAT	#5	18
98.	72063049	WASHER .25 LOCK	#5	10
99.	72063051	WASHER .38 LOCK	#5	12
105.	72601031	SCR-MACH .38-16X 1.00 BTNHD	#5	4
107.	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
111.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	#6,#7	1
124.	72533613	ADPTR-M STR/M JIC 10 6	#6,#7	2
REV T 20150911				

Base & Mast Assembly, Truck Mount

(99904973) (See Parts List for Effectivity Dates)

NOTE: This base and mast assembly is shown as if it were mounted on a truck.



NOTES (SEE REFERENCE NUMBER IN BOX):

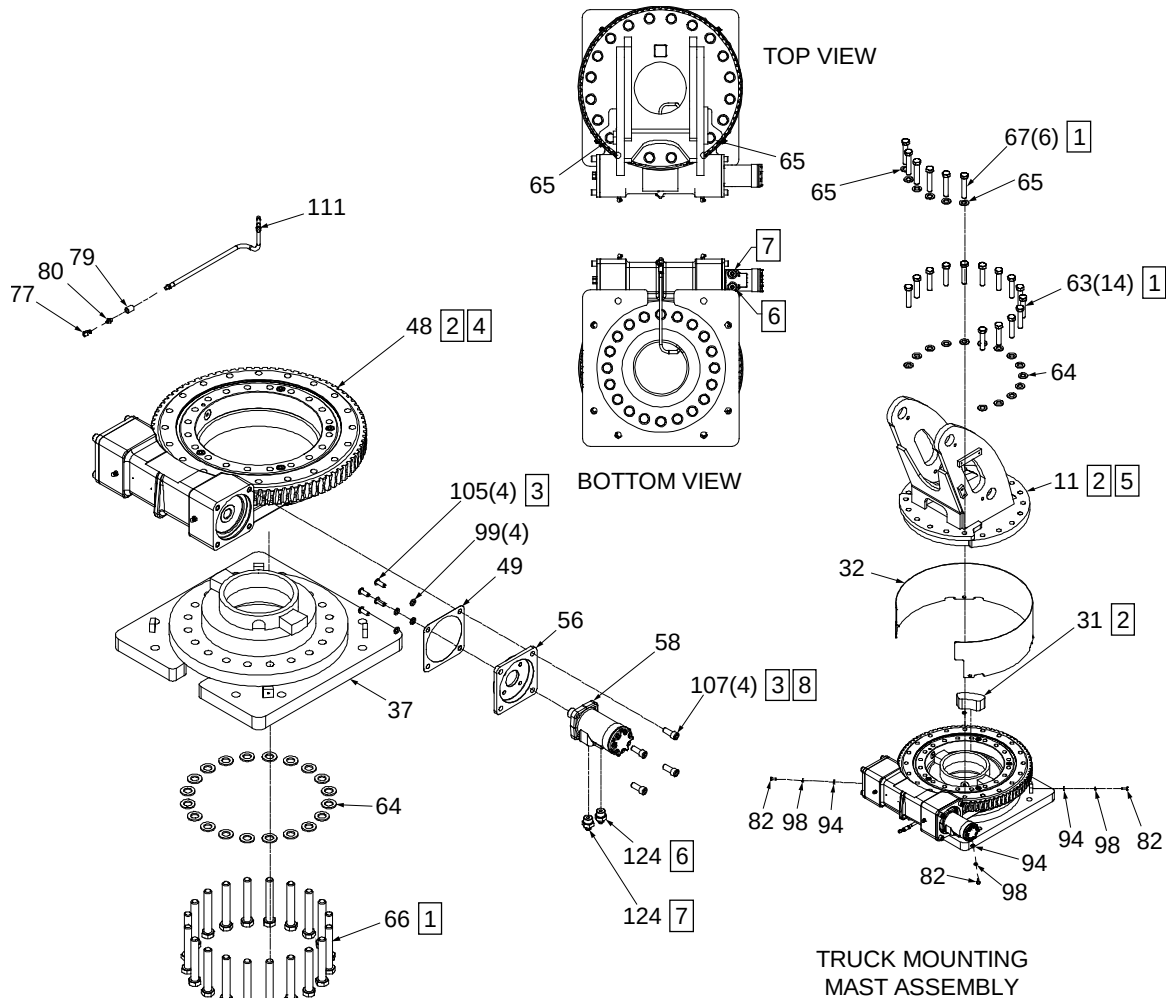
- 1 TORQUE TO 280 FT-LB (38.7 KG-M)
- 2 USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
- 3 APPLY BLUE THREAD LOCKER.
- 4 APPLY GEAR LUBE ON GEAR TEETH.
- 5 BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON THE TEST STAND. NOTE ORIENTATION OF MOTOR.
- 6 PORT A
- 7 PORT B
- 8 TORQUE TO 80 FT-LB (11.1 KG-M)
- 9 GREASE ZERK PLUG

BASE & MAST ASSEMBLY PARTS LIST, MOUNTED ON TRUCK (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
1.	91723089	KIT-HRDW BASE & MAST 12000/14000		1
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
11.	52725175	MAST WLDMNT-12000/14000 (eff. from 04/08/13)		1
31.	71414167	SLIDE-ROTATION STOP 12000/14000		1
32.	60136007	GEAR GUARD 12000/14000		1
37.	52722991	BASE WLDMNT-12000/14000		1
48.	71056674	GEAR-TRNTBL BRG 21.00" DIA		1
49.	76398996	GASKET-GEAR 170-00055-1	#48	1
56.	60136102	FLANGE ADAPTOR		1
58.	73511254	MOTOR-HYD 101 1752 009 (eff. from 11/30/11)		1
63.	72601295	CAP SCR .75-10X 3.50 HH GR8 Z	#1	14
64.	72063116	WASHER .75 N FLAT H ASTM F436Z	#1	38
65.	72063285	WASHER-FLAT .75 H ASTM F436 Z-CUT	#1	2
66.	72601466	CAP SCR .75-10X 5.00 HH GR8 Z	#1	20
67.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	#1	6
77.	70034382	CAP-GREASE PRO20 GC-RED	#5	4
79.	72053301	COUPLING-GLV .12 SCH 40	#5	1
80.	72053508	ZERK-NPT .12	#5	4
82.	72060002	CAP SCR .25-20X .75 HH GR5 Z	#5	4
94.	72063001	WASHER .25 FLAT	#5	18
98.	72063049	WASHER .25 LOCK	#5	10
99.	72063051	WASHER .38 LOCK	#5	12
105.	72601031	SCR-MACH .38-16X 1.00 BTNHD	#5	4
107.	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
111.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	#6,#7	1
124.	72533613	ADPTR-M STR/M JIC 10 6	#6,#7	2
REV T 20150911				

Base & Mast Assembly, Truck Mount

(99904973) (See Parts List for Effectivity Dates)

NOTE: This base and mast assembly is shown as if it were mounted on a truck.

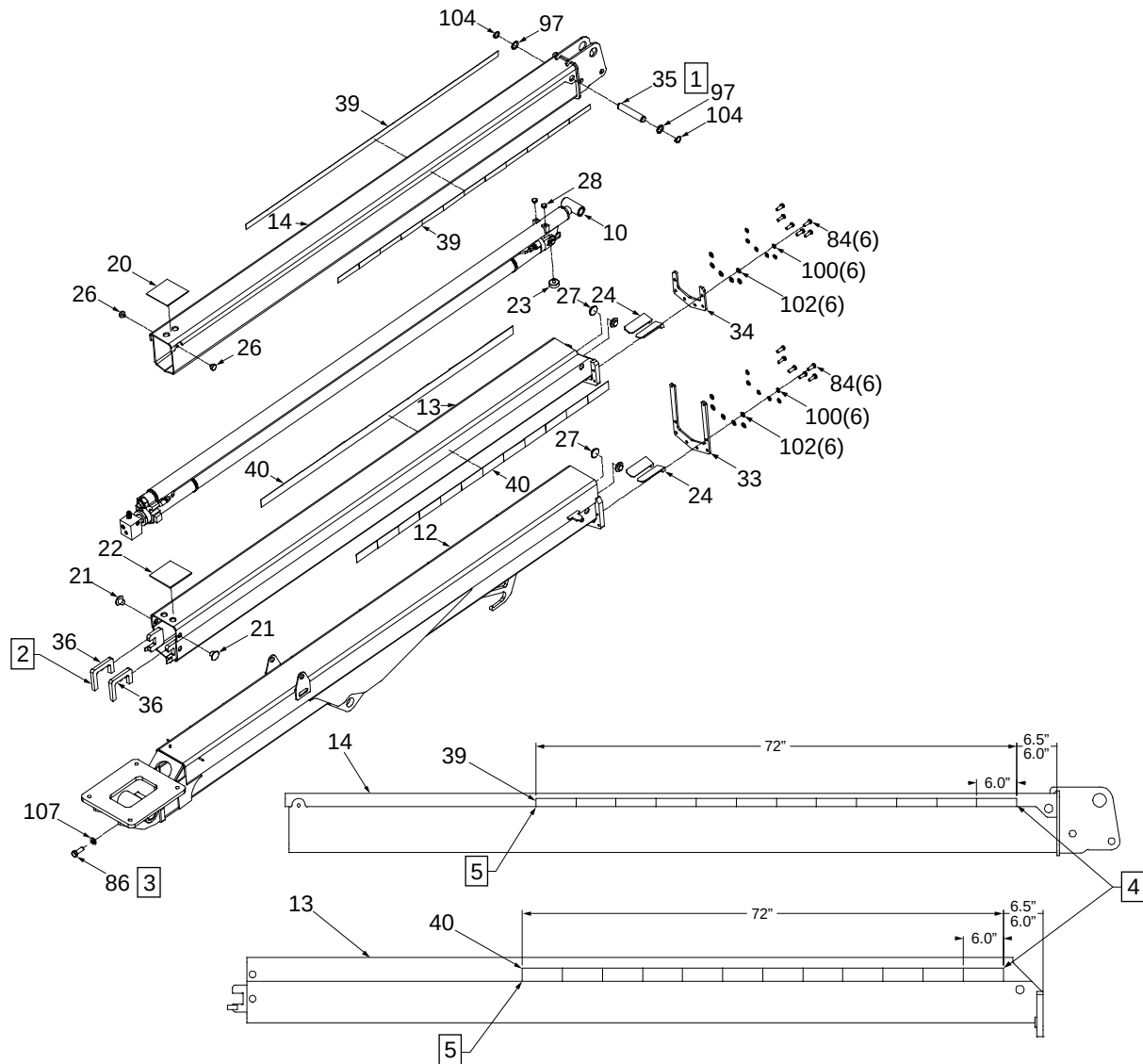


NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 TORQUE TO 280 FT-LB (38.7 KG-M)
- 2 USE RUST PREVENTATIVE ON SLIDE STOP, BEARING RACE, BOTTOM OF MAST AND TOP OF GEAR BEARING.
- 3 APPLY BLUE THREAD LOCKER.
- 4 APPLY GEAR LUBE ON GEAR TEETH.
- 5 BASE AND MAST ASSEMBLY SHOWN AS MOUNTED ON THE TEST STAND. NOTE ORIENTATION OF MOTOR.
- 6 PORT A
- 7 PORT B
- 8 TORQUE TO 80 FT-LB (11.1 KG-M)
- 9 GREASE ZERK PLUG

BASE & MAST ASSEMBLY PARTS LIST, MOUNTED ON TRUCK (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
1.	91723089	KIT-HRDW BASE & MAST 12000/14000		1
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
11.	52725175	MAST WLDMNT-12000/14000 (eff. from 04/08/13)		1
31.	71414167	SLIDE-ROTATION STOP 12000/14000		1
32.	60136007	GEAR GUARD 12000/14000		1
37.	52722991	BASE WLDMNT-12000/14000		1
48.	71056674	GEAR-TRNTBL BRG 21.00" DIA		1
49.	76398996	GASKET-GEAR 170-00055-1	#48	1
56.	60136102	FLANGE ADAPTOR		1
58.	73511254	MOTOR-HYD 101 1752 009 (eff. from 11/30/11)		1
63.	72601295	CAP SCR .75-10X 3.50 HH GR8 Z	#1	14
64.	72063116	WASHER .75 N FLAT H ASTM F436Z	#1	38
65.	72063285	WASHER-FLAT .75 H ASTM F436 Z-CUT	#1	2
66.	72601466	CAP SCR .75-10X 5.00 HH GR8 Z	#1	20
67.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	#1	6
77.	70034382	CAP-GREASE PRO20 GC-RED	#5	4
79.	72053301	COUPLING-GLV .12 SCH 40	#5	1
80.	72053508	ZERK-NPT .12	#5	4
82.	72060002	CAP SCR .25-20X .75 HH GR5 Z	#5	4
94.	72063001	WASHER .25 FLAT	#5	18
98.	72063049	WASHER .25 LOCK	#5	10
99.	72063051	WASHER .38 LOCK	#5	12
105.	72601031	SCR-MACH .38-16X 1.00 BTNHD	#5	4
107.	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
111.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	#6,#7	1
124.	72533613	ADPTR-M STR/M JIC 10 6	#6,#7	2
REV T 20150911				

Boom Assembly (99904973) (See Parts List for Effectivity Dates)

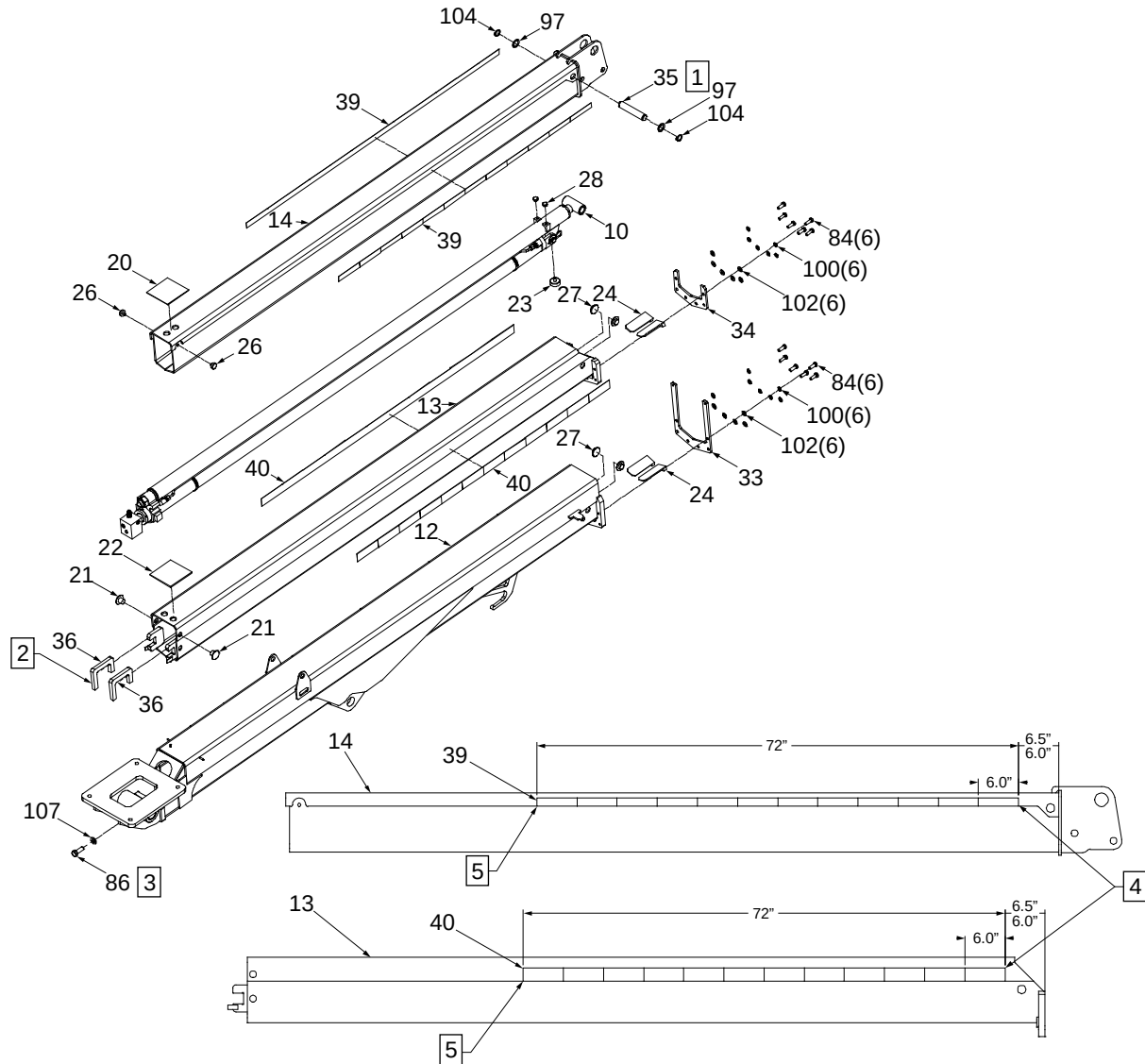


NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 APPLY NEVER-SEEZ
- 2 INSTALL EXTENSION CYLINDERS FIRST, ADD RETAINERS NEXT, AND INSTALL WEAR PADS LAST.
- 3 TORQUE TO 280 FT-LB (38.7 KG-M). USE BLUE THREAD LOCKER.
- 4 START WITH RED SEGMENT
- 5 ALIGN WITH EDGE

99904973 BOOM ASSEMBLY				
ITEM	PART #	DESCRIPTION	KIT #	QTY
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
10.	51722968	CYL ASM-2.50/1.75 2.75/1.75 150S 125.0CC		1
12.	52725166	WLDMNT-LOWER BOOM 12000/14000S (eff. from 05/20/13)		1
13.	52725167	WLDMNT-1st STAGE EXT BOOM 12000/14000S (eff. from 04/08/13)		1
14.	52723218	WLDMNT-2ND STAGE EXT BOOM 12000/14000S		1
20.	60030336	WEAR PAD-RC .19 X 6.00 X 6.00		1
21.	60030438	WEAR PAD-RND 0.12X 2.00X 1.00X 1.00		2
22.	60030421	WEAR PAD-RC 0.25X 6.00X 6.00		1
23.	60030422	WEAR PAD-RND SIII EXT CYL		1
24.	60030437	WEAR PAD-RC 0.19X 6.00X 2.25		4
26.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
27.	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
28.	60030442	WEAR PAD-RND 0.25X 1.00X .50X .38		2
33.	60140899	CAP-LOWER BOOM CABLE GUIDE 9500-14000	#125	1
34.	60135668	CAP-FIRST STAGE		1
35.	60135669	PIN-TYPE A 1.25X 6.89 (6.46)		1
36.	60135833	RETAINER-1st STAGE EXT CYL		2
37.	52722991	BASE WLDMNT-12000/14000		1
39.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
40.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
84.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	#5	12
86.	72060206	CAP SCR .75-10X 2.00 HH GR8 Z	#5	1
97.	72063035	MACHY BUSHING 1.25X10 GA NR	#5	2
100.	72063053	WASHER .50 LOCK	#5	12
102.	72063132	WASHER .50 FLAT ASTM F436	#5	12
104.	72066129	RETAINING RING-EXT 1.25 HD	#5	2
107.	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
125.	93725207	KIT-CABLE GUIDE 9500/14000		1
REV T 20150911				

Boom Assembly (99904973) (See Parts List for Effectivity Dates)



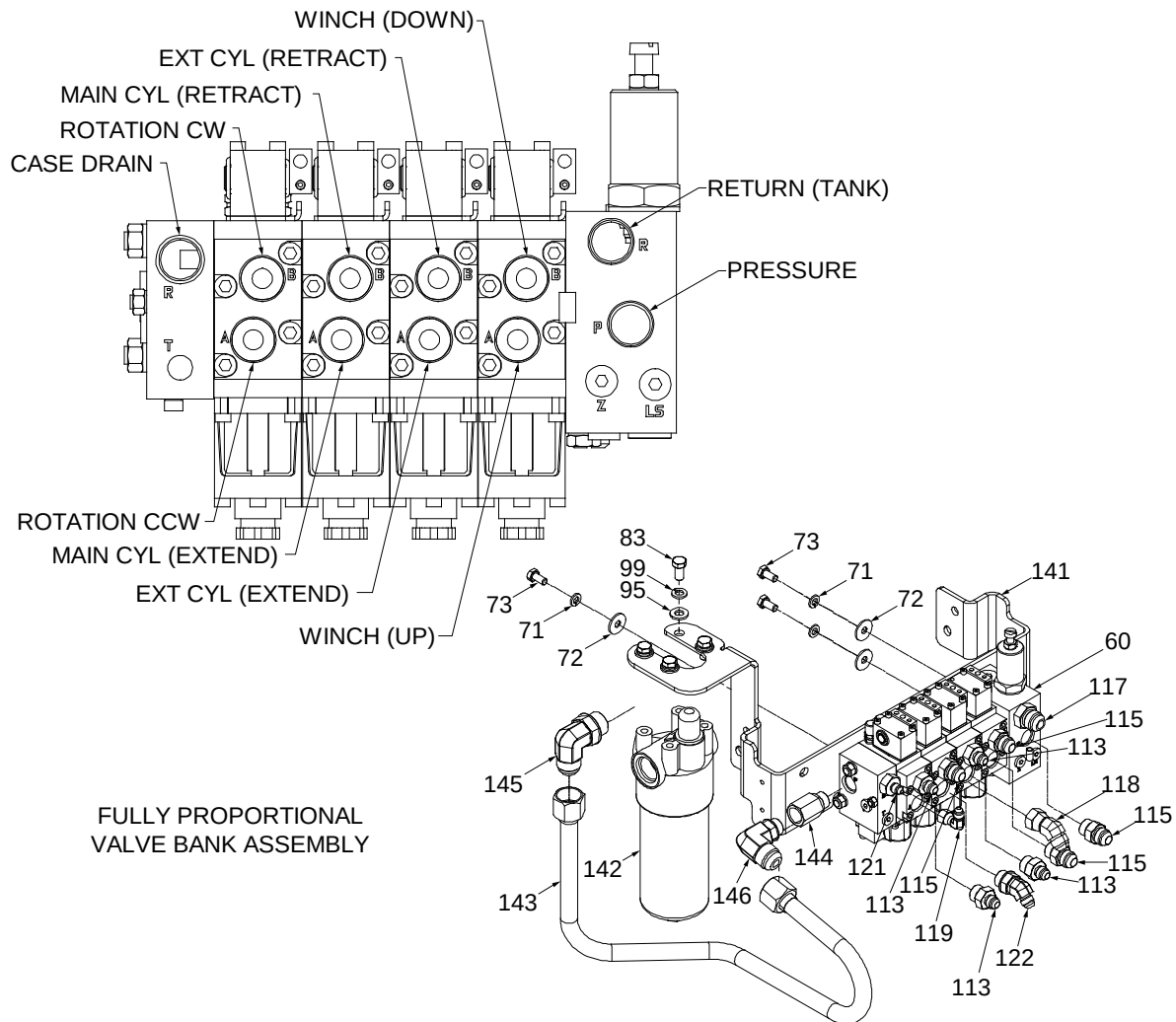
NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 APPLY NEVER-SEEZ
- 2 INSTALL EXTENSION CYLINDERS FIRST, ADD RETAINERS NEXT, AND INSTALL WEAR PADS LAST.
- 3 TORQUE TO 280 FT-LB (38.7 KG-M). USE BLUE THREAD LOCKER.
- 4 START WITH RED SEGMENT
- 5 ALIGN WITH EDGE

99904973 BOOM ASSEMBLY				
ITEM	PART #	DESCRIPTION	KIT #	QTY
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
10.	51722968	CYL ASM-2.50/1.75 2.75/1.75 150S 125.0CC		1
12.	52725166	WLDMNT-LOWER BOOM 12000/14000S (eff. from 05/20/13)		1
13.	52725167	WLDMNT-1st STAGE EXT BOOM 12000/14000S (eff. from 04/08/13)		1
14.	52723218	WLDMNT-2ND STAGE EXT BOOM 12000/14000S		1
20.	60030336	WEAR PAD-RC .19 X 6.00 X 6.00		1
21.	60030438	WEAR PAD-RND 0.12X 2.00X 1.00X 1.00		2
22.	60030421	WEAR PAD-RC 0.25X 6.00X 6.00		1
23.	60030422	WEAR PAD-RND SIII EXT CYL		1
24.	60030437	WEAR PAD-RC 0.19X 6.00X 2.25		4
26.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
27.	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
28.	60030442	WEAR PAD-RND 0.25X 1.00X .50X .38		2
33.	60140899	CAP-LOWER BOOM CABLE GUIDE 9500-14000	#125	1
34.	60135668	CAP-FIRST STAGE		1
35.	60135669	PIN-TYPE A 1.25X 6.89 (6.46)		1
36.	60135833	RETAINER-1st STAGE EXT CYL		2
37.	52722991	BASE WLDMNT-12000/14000		1
39.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
40.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
84.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	#5	12
86.	72060206	CAP SCR .75-10X 2.00 HH GR8 Z	#5	1
97.	72063035	MACHY BUSHING 1.25X10 GA NR	#5	2
100.	72063053	WASHER .50 LOCK	#5	12
102.	72063132	WASHER .50 FLAT ASTM F436	#5	12
104.	72066129	RETAINING RING-EXT 1.25 HD	#5	2
107.	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
125.	93725207	KIT-CABLE GUIDE 9500/14000		1
REV T 20150911				

Valve Assembly

(Reference drawings 99904973 - 99904974 - 99904926 - 99904927)

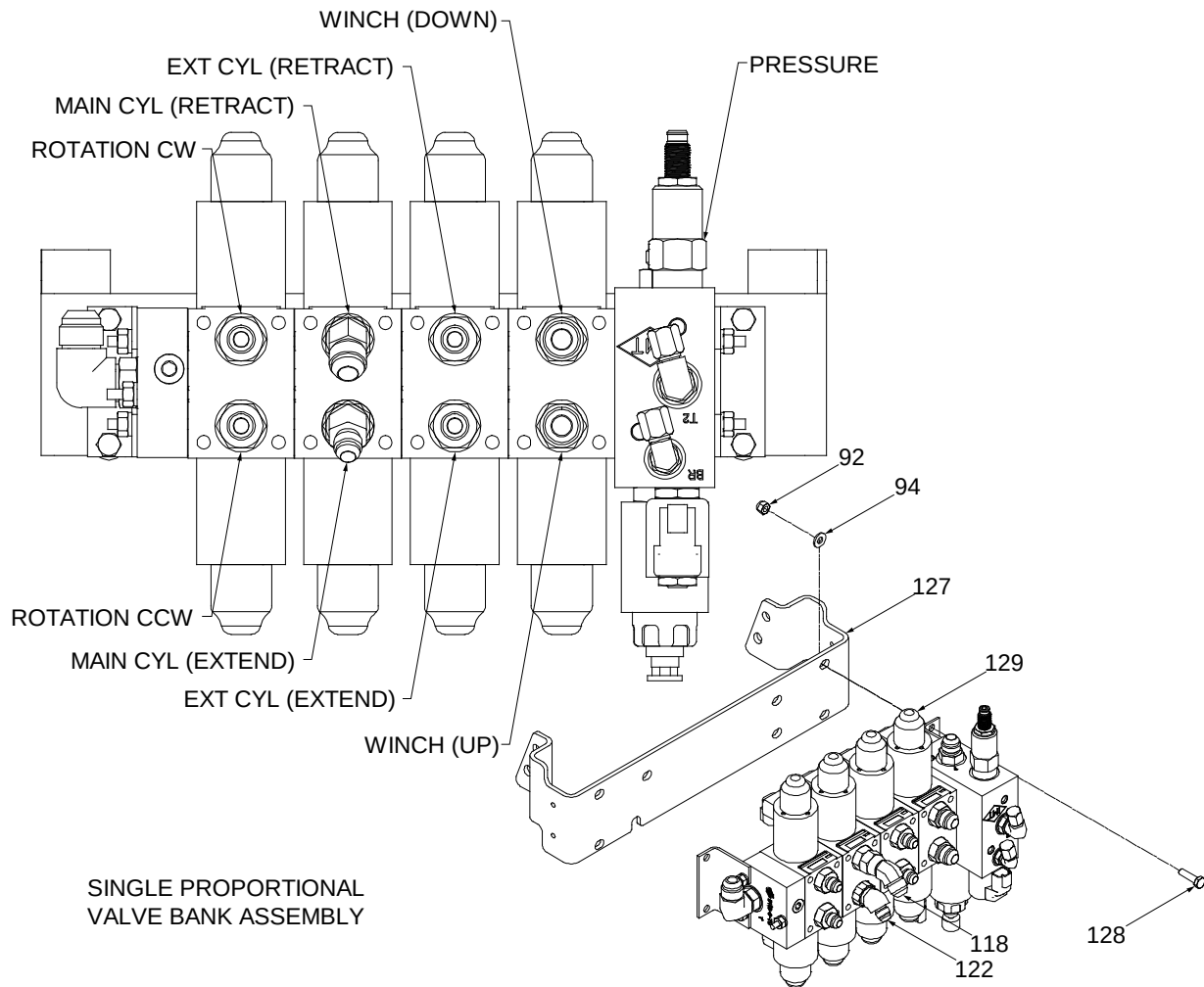


VALVE ASSEMBLY				
ITEM	PART #	DESCRIPTION	KIT #	QTY
3.	91723543	KIT-HRDW VB MNT HAWE		1
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
60.	73734727	VALVE BANK-4SEC 4R 10GPM TELE PROP 12V G (eff. from 07/22/12)		A/R
71.	72601797	WASHER-LOCK 8MM	#3	3
72.	72602065	WASHER-FLAT M 8 (eff. from 08/23/11)	#3	3
73.	72602052	CAP SCR M 8-1.25X 16 HHZ	#3	3
83.	72060044	CAP SCR .38-16X .75 HH GR5 Z	#5	8
95.	72063003	WASHER .38 FLAT	#5	12
99.	72063051	WASHER .38 LOCK	#5	12

VALVE ASSEMBLY				
ITEM	PART #	DESCRIPTION	KIT #	QTY
113.	72532356	ADPTR-M STR/M JIC 8 6	#6,#7	4
115.	72532358	ADPTR-M STR/M JIC 8 8	#6,#7	4
117.	72532361	ADPTR-M STR/M JIC 8 10	#6,#7	1
118.	72532670	ELBOW-M JIC/45/F JIC 8 8	#6,#7	1
119.	72532690	ELBOW-M JIC/90/F JIC SW 4 4	#6,#7	1
121.	72532792	ADPTR-M STR/M JIC 8 4	#6,#7	1
122.	72533583	ELBOW-M STR/45/M JIC 8 6	#6,#7	1
141.	60143080	BRKT-MAST VB 12000-14000 FP (eff. from 03/31/15)		1
142.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
143.	71415692	TUBE ASM-PRESSURE FILTER S3FP 12K 14K MA		1
144.	72534898	O-RING EXTENDER 08-08		1
145.	72053767	ELBOW-M STR/90/M JIC 12 12		1
146.	72533623	ELBOW-M STR/90/M JIC 8 12		1
REV T 20150911				

Valve Assembly-Singe Proportional

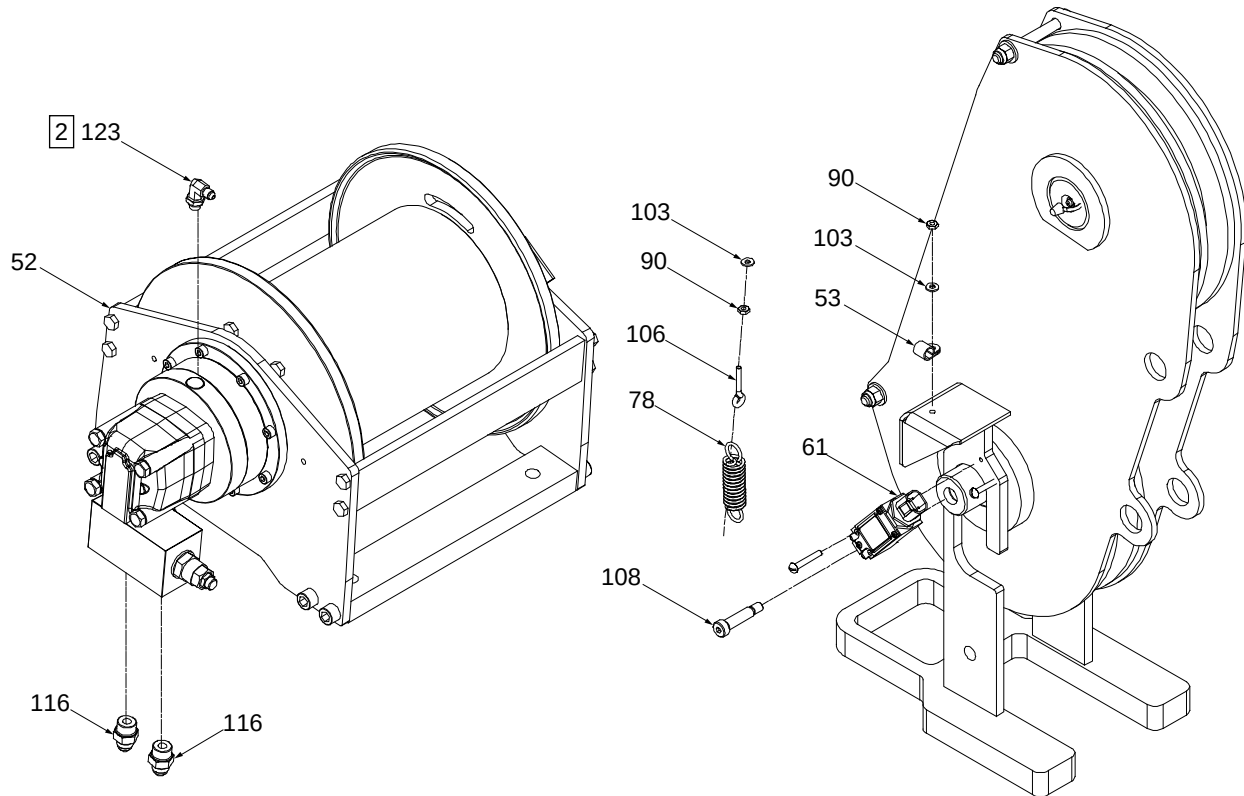
(Reference drawings 99904973 - 99904974 - 99904926 - 99904927)



VALVE ASSEMBLY				
ITEM	PART #	DESCRIPTION	KIT #	QTY
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
92.	72062104	NUT .25-20 HEX NYLOCK	#5	6
94.	72063001	WASHER .25 FLAT	#5	18
118.	72532670	ELBOW-M JIC/45/F JIC 8 8	#6,#7	1
122.	72533583	ELBOW-M STR/45/M JIC 8 6	#6,#7	1
127.	60140857	BRKT-MAST VB 12000-14000		1
128.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	#5	4
129.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
REV T 20150911				

Winch & Anti-Two-Block Assembly

(Reference drawings 99904973 - 99904974 - 99904926 - 99904927)



NOTES (SEE REFERENCE NUMBER IN BOX):

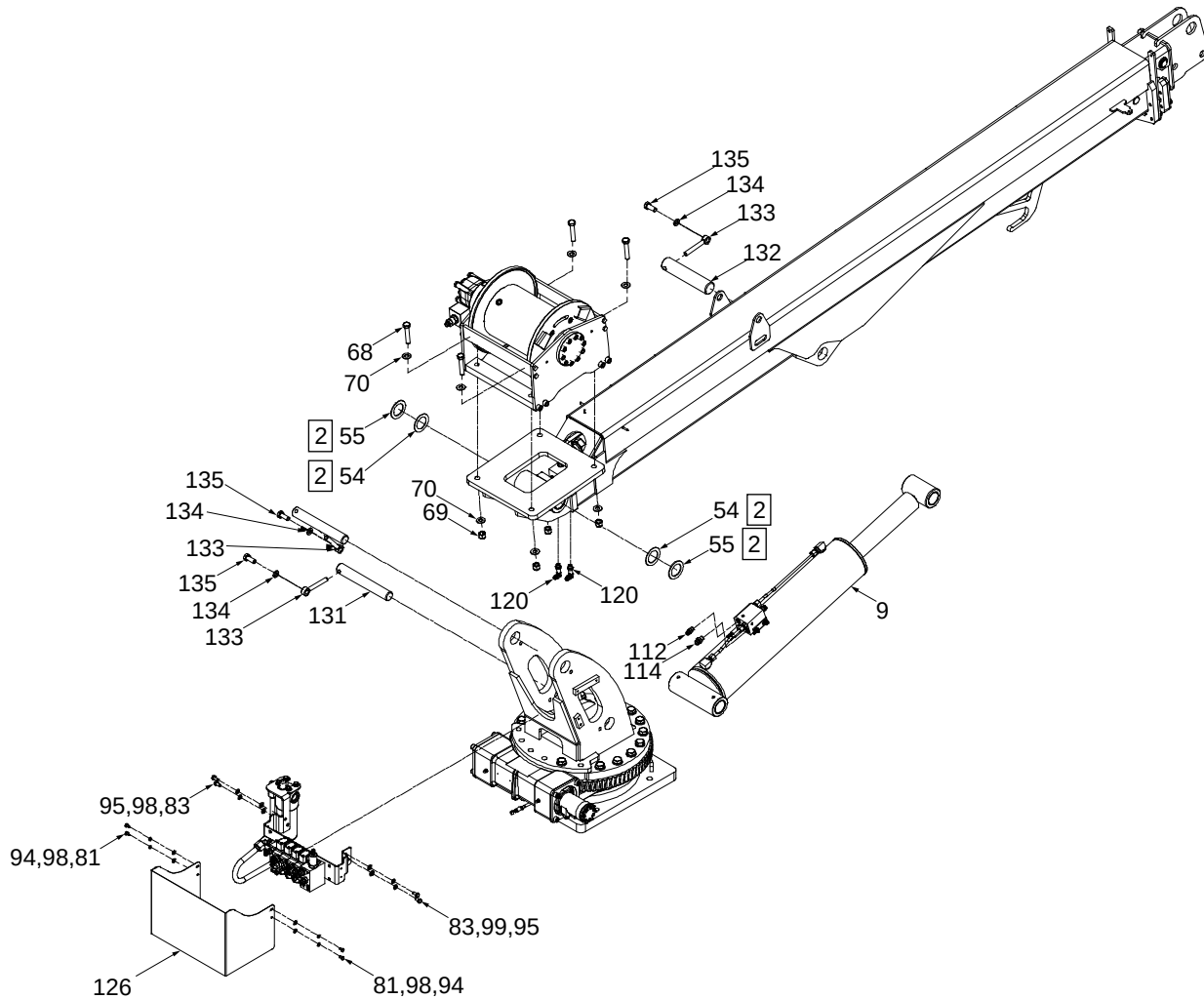
1 USE BLUE LOCKTITE.

2 CASE DRAIN

WINCH & ANTI-TWO-BLOCK ASSEMBLY				
ITEM	PART #	DESCRIPTION	KIT #	QTY
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
52.	70570836	WINCH-PLANETARY 7770 LB LINE PULL (A80)		1
53.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
61.	77041863	SWITCH-LIMIT DT04-4P CONN		1
78.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	#5	1
90.	72062093	NUT # 8-32 HEX ZINC	#5	2
103.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	#5	2
106.	72601938	BOLT-EYE # 8-32X 1.125	#5	1
108.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	#5	1
116.	72532359	ADPTR-M STR/M JIC 10 8	#6,#7	2
123.	72534474	ELBOW-M BSPP/90/M JIC 4 4	#6,#7	1
REV Q 20140212				

Crane & Winch Assembly (99904973)

(See Parts List for Effectivity Dates)



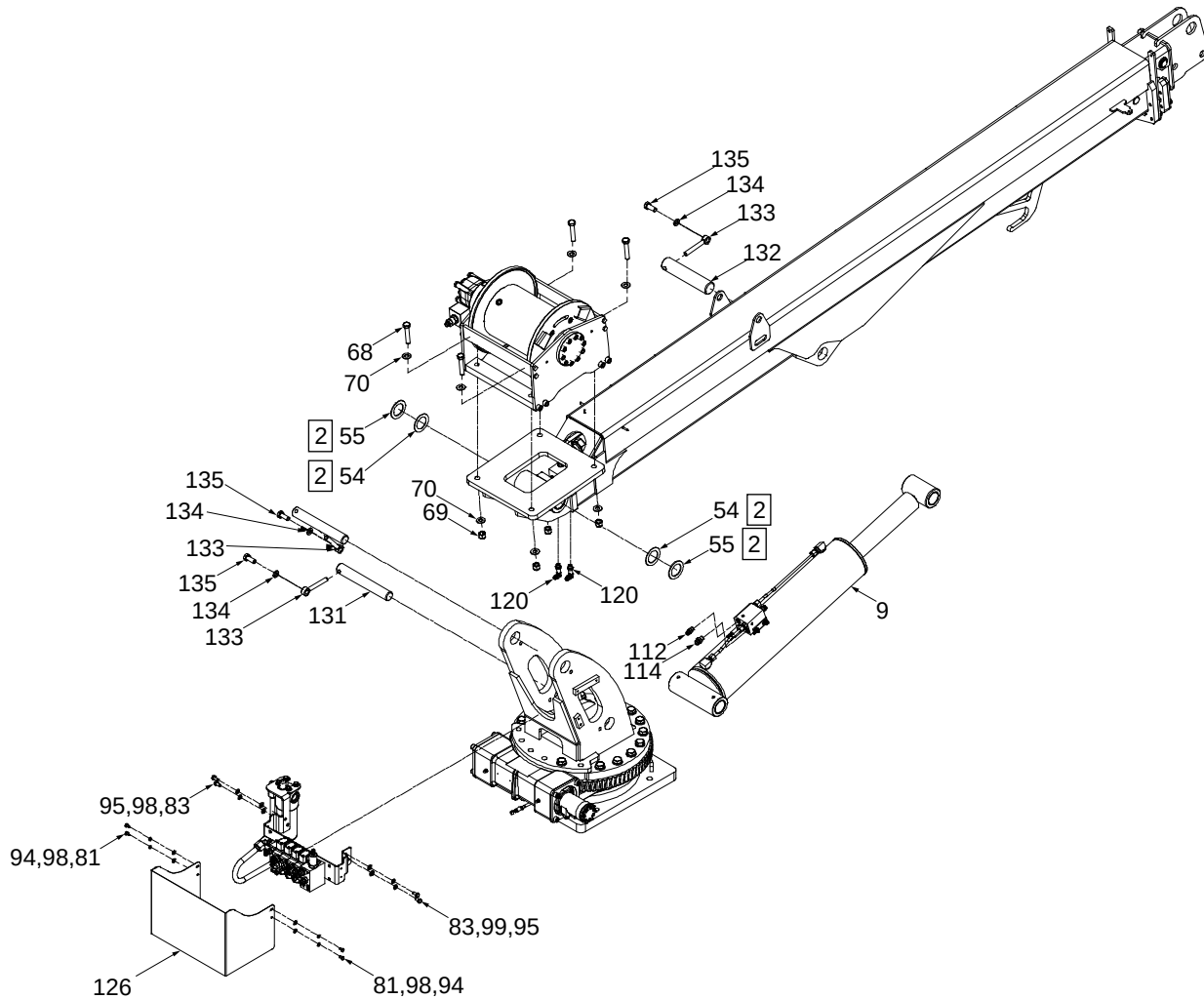
NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 APPLY ANTI-SEEZ TO BOOM AND CYLINDER MOUNTING PINS. DO NOT ALLOW ANTI-SEEZ TO CONTACT BOOM OR CYLINDER PIN BOSS BEARINGS.
- 2 IF REQUIRED, USE 72063038 OR 72063039 MACHINERY BUSHINGS BETWEEN MAST AND LOWER BOOM.

CRANE & WINCH ASSEMBLY (99904973)				
ITEM	PART #	DESCRIPTION	KIT #	QTY
2.	51720680	KIT-HRDW A80 WINCH MNT		1
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
9.	51723137	CYL-5.5/3.0 25.07S 45.44CC C		1
54.	72063038	MACHY BUSHING 2.00X14 GA NR		A/R
55.	72063039	MACHY BUSHING 2.00X10 GA NR		A/R
68.	72060932	CAP SCR .62-11X 3.25 HH GR5 Z	#2	4
69.	72062091	NUT .62-11 HEX NYLOCK	#2	4
70.	72063007	WASHER .62 FLAT	#2	8
81.	72060000	CAP SCR .25-20X .50 HH GR5 Z	#5	6
83.	72060044	CAP SCR .38-16X .75 HH GR5 Z	#5	8
94.	72063001	WASHER .25 FLAT	#5	18
95.	72063003	WASHER .38 FLAT	#5	12
98.	72063049	WASHER .25 LOCK	#5	10
99.	72063051	WASHER .38 LOCK	#5	12
112.	72532355	ADPTR-M STR/M JIC 6 6	#6,#7	1
114.	72532357	ADPTR-M STR/M JIC 6 8	#6,#7	1
120.	72532700	ELBOW-M STR/90/M JIC XLG 6 6	#6,#7	2
126.	60140838	COVER-VALVE BANK SIII		1
131.	60140915	PIN-TYPE NN 2.00X13.75		2
132.	60140916	PIN-TYPE NN 2.00X 9.50		1
133.	71415016	KEEPER-PIN .62		3
134.	72063055	WASHER .62 LOCK	#5	3
135.	72060149	CAP SCR .62-11X 1.50 HH GR5 Z	#5	3
REV T 20150911				

Crane & Winch Assembly (99904973)

(See Parts List for Effectivity Dates)



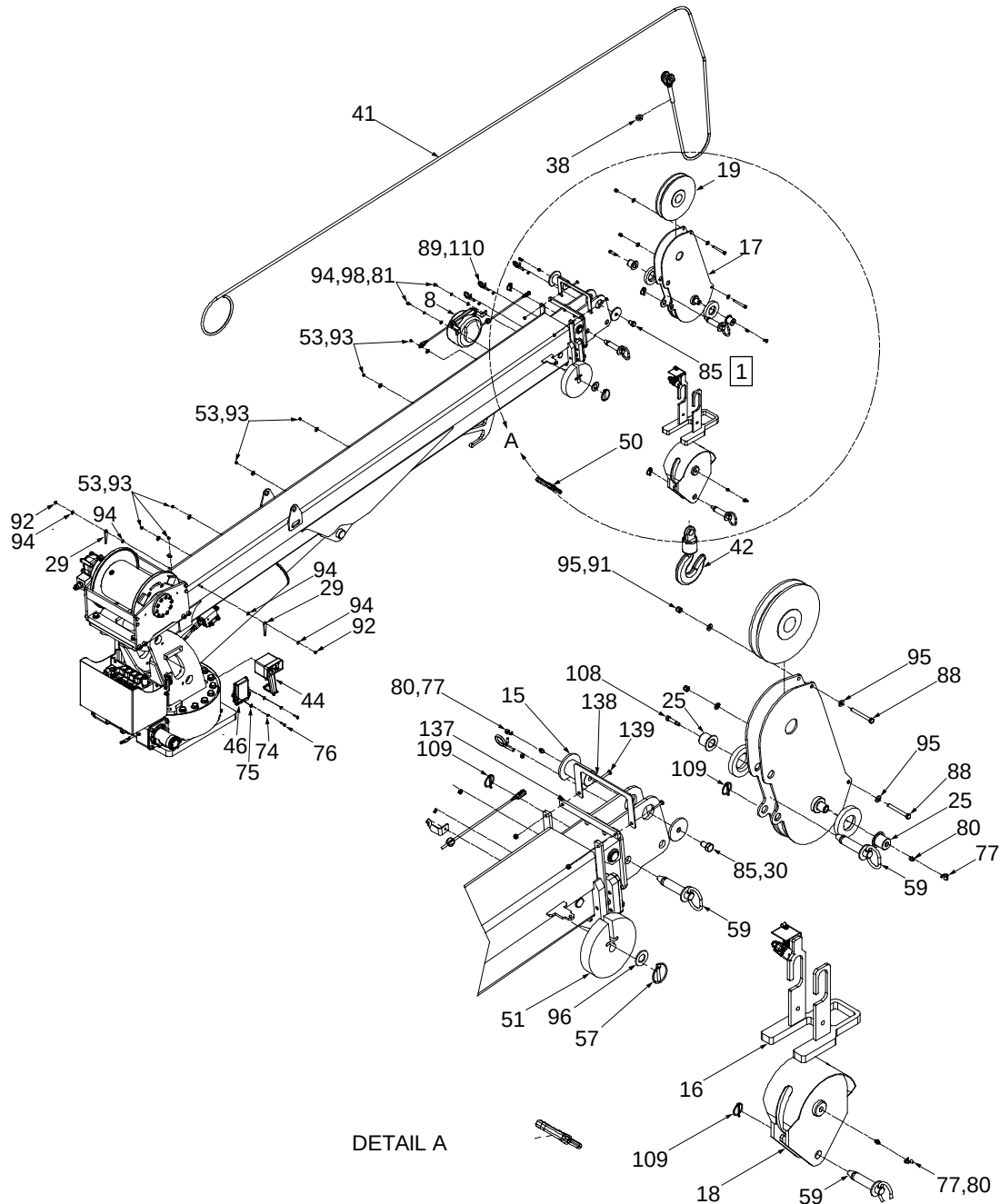
NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 APPLY ANTI-SEEZ TO BOOM AND CYLINDER MOUNTING PINS. DO NOT ALLOW ANTI-SEEZ TO CONTACT BOOM OR CYLINDER PIN BOSS BEARINGS.
- 2 IF REQUIRED, USE 72063038 OR 72063039 MACHINERY BUSHINGS BETWEEN MAST AND LOWER BOOM.

CRANE & WINCH ASSEMBLY (99904973)				
ITEM	PART #	DESCRIPTION	KIT #	QTY
2.	51720680	KIT-HRDW A80 WINCH MNT		1
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
9.	51723137	CYL-5.5/3.0 25.07S 45.44CC C		1
54.	72063038	MACHY BUSHING 2.00X14 GA NR		A/R
55.	72063039	MACHY BUSHING 2.00X10 GA NR		A/R
68.	72060932	CAP SCR .62-11X 3.25 HH GR5 Z	#2	4
69.	72062091	NUT .62-11 HEX NYLOCK	#2	4
70.	72063007	WASHER .62 FLAT	#2	8
81.	72060000	CAP SCR .25-20X .50 HH GR5 Z	#5	6
83.	72060044	CAP SCR .38-16X .75 HH GR5 Z	#5	8
94.	72063001	WASHER .25 FLAT	#5	18
95.	72063003	WASHER .38 FLAT	#5	12
98.	72063049	WASHER .25 LOCK	#5	10
99.	72063051	WASHER .38 LOCK	#5	12
112.	72532355	ADPTR-M STR/M JIC 6 6	#6,#7	1
114.	72532357	ADPTR-M STR/M JIC 6 8	#6,#7	1
120.	72532700	ELBOW-M STR/90/M JIC XLG 6 6	#6,#7	2
126.	60140838	COVER-VALVE BANK SIII		1
131.	60140915	PIN-TYPE NN 2.00X13.75		2
132.	60140916	PIN-TYPE NN 2.00X 9.50		1
133.	71415016	KEEPER-PIN .62		3
134.	72063055	WASHER .62 LOCK	#5	3
135.	72060149	CAP SCR .62-11X 1.50 HH GR5 Z	#5	3
REV T 20150911				

Flip Sheave Assembly (99904973)

(See Parts List for Effectivity Dates)



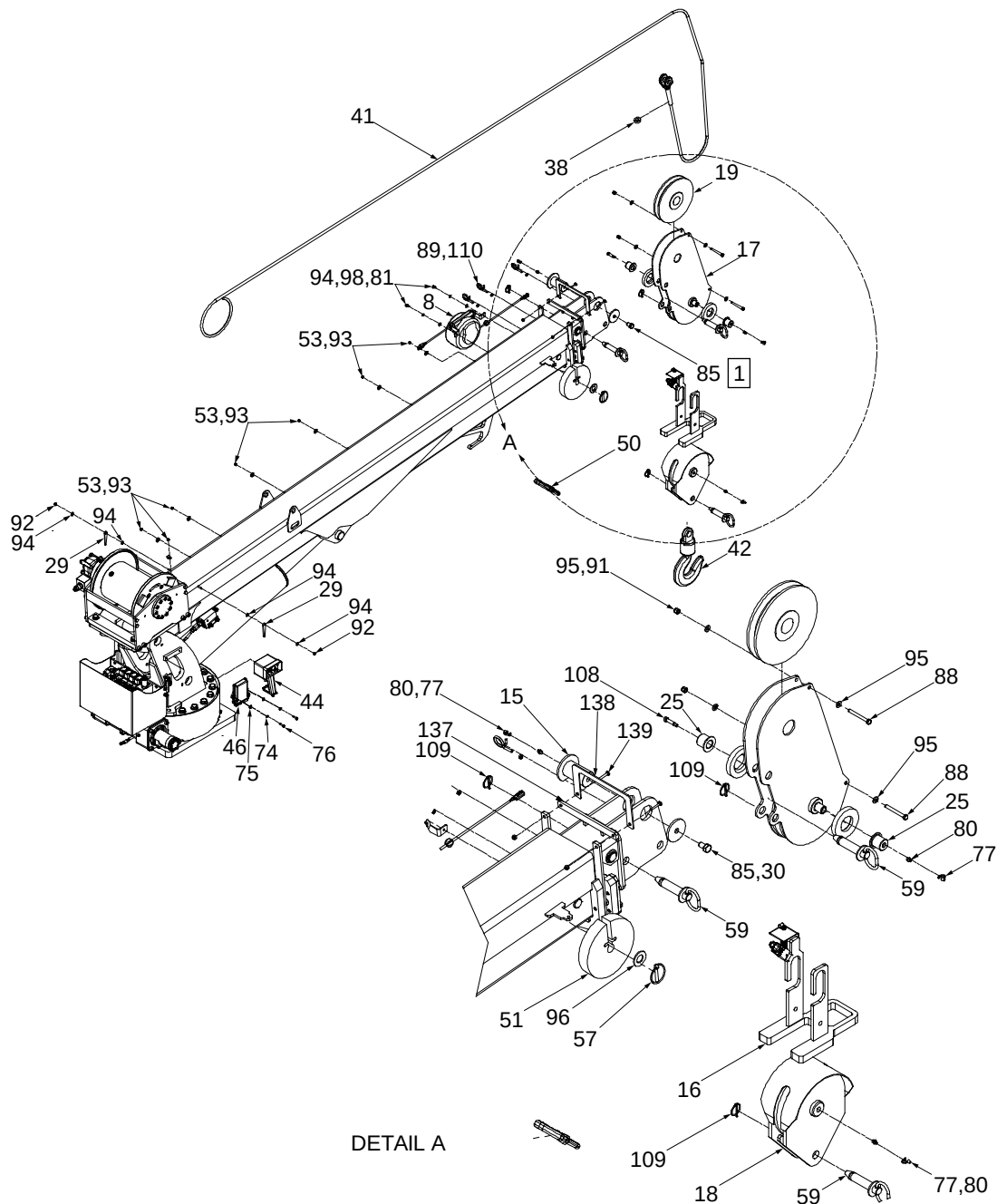
NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 USE BLUE LOCTITE.

FLIP SHEAVE ASSEMBLY (99904973)				
ITEM	PART #	DESCRIPTION	KIT #	QTY
4	91723583	KIT-HRDW SIII RADIO CONTROLS (effective through 05/22/13)		1
5	91725206	KIT-HRDW SERIES III 12000/14000		1
15	52723069	PIN-TYPE M 2.00X 3.38		1
16	52725155	WLDMT- A2B BRKT (eff. from 02/12/14)		1
17	52723067	WLDMT- FLIP SHEAVE 12000/14000		1
18	52723070	WLDMT- SNATCH BLOCK 12000/14000		1
19	60030102	SHEAVE-10.50 POLYMER		1
25	60030487	CAP- A2B PIN		2
29	70034490	PLATE-ANGLE PLASTIC 3.50" (eff. from 04/04/11)		2
30	60109337	RETAINER PLT-PIN 3.00 DIA		1
38	70145121	COLLAR-SHAFT 2 PIECE 7/8 in.		1
41	70580185	CABLE ASM-1200in .50 6X31 WS IWRC XIP LR		1
42	70731813	HOOK-SWVL 7EH W/3214 LCH ASM		1
44	70734761	TRANSMITTER-RAD REM TELE S3 NON-G W-HORN (eff. from 04/16/13)		A/R
46	70734763	RECEIVER-RADIO REMOTE TELE SIII W-HORN (eff. from 04/16/13)		A/R
50	71073035	HOOK-SWVL L322 AN 5.0T W/LATCH		1
51	71414205	PLATE-SINGLE SHEAVE (20#) .50 WIRE ROPE		1
53	72034485	CLAMP-PLASTIC 1/4" CABLE		8
57	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW		1
59	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		3
74	72063142	WASHER-SS .25 LOCK TYPE 304	#4	2
75	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	#4	2
76	72601330	CAP SCR .25-20X 1.00 HH SS	#4	2
77	70034382	CAP-GREASE PRO20 GC-RED	#5	4
80	72053508	ZERK-NPT .12	#5	4
81	72060000	CAP SCR .25-20X .50 HH GR5 Z	#5	6
85	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	#5	1
88	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	#5	2
89	72062000	NUT .25-20 HEX	#5	3
91	72062103	NUT .38-16 HEX NYLOCK	#5	2
92	72062104	NUT .25-20 HEX NYLOCK	#5	6
93	72062106	NUT 10-24 HEX NYLOCK	#5	7
94	72063001	WASHER .25 FLAT	#5	18
95	72063003	WASHER .38 FLAT	#5	12
96	72063010	WASHER 1.00 FLAT	#5	1
98	72063049	WASHER .25 LOCK	#5	10
108	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	#5	1
109	72661543	PIN-QUICK 316-10QP	#5	3
110	72661694	BRIDLE RING 1-1/12ID X 1/4-20	#5	3
125	93725207	KIT-CABLE GUIDE 9500/14000		1
137	60140935	GUIDE - CABLE WEAR (WIDE)	#125	1
138	60140938	BRKT - CABLE GUIDE (WIDE)	#125	1
139	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	#125	2
REV T 20150911				

Flip Sheave Assembly (99904973)

(See Parts List for Effectivity Dates)

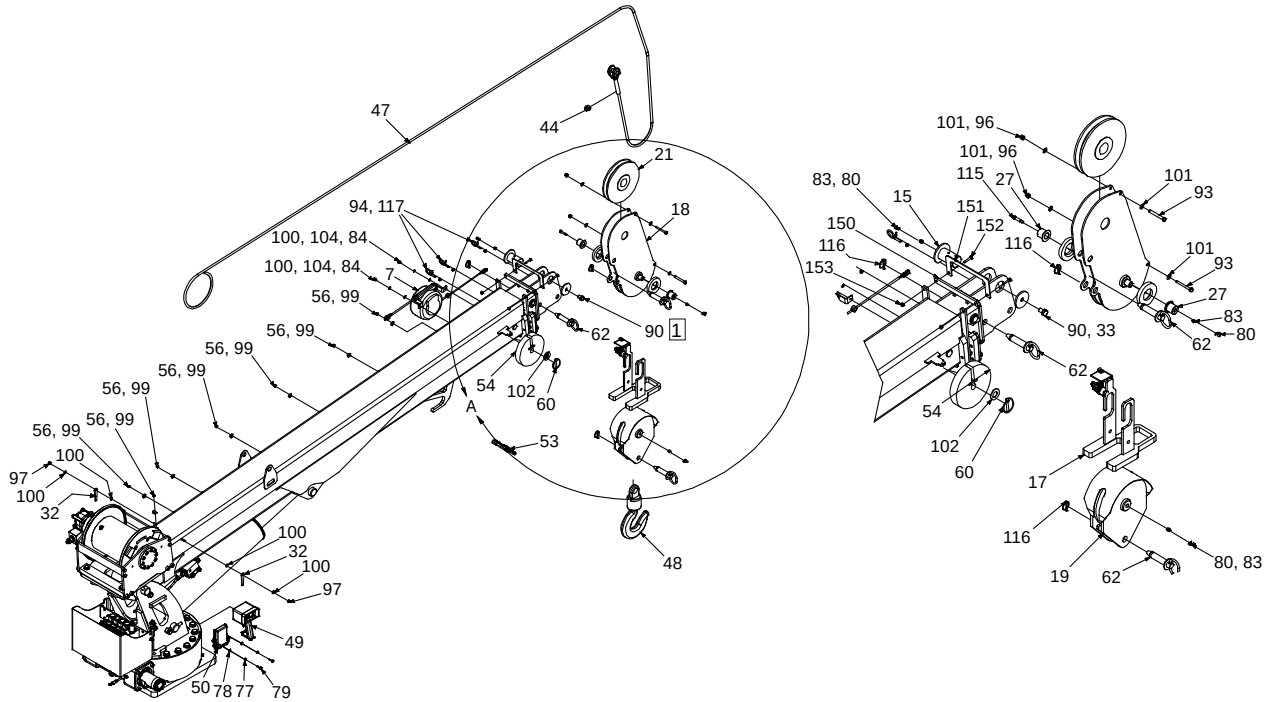


NOTES (SEE REFERENCE NUMBER IN BOX):

2 USE BLUE LOCTITE.

FLIP SHEAVE ASSEMBLY (99904973)				
ITEM	PART #	DESCRIPTION	KIT #	QTY
4	91723583	KIT-HRDW SIII RADIO CONTROLS (effective through 05/22/13)		1
5	91725206	KIT-HRDW SERIES III 12000/14000		1
15	52723069	PIN-TYPE M 2.00X 3.38		1
16	52725155	WLDMT- A2B BRKT (eff. from 02/12/14)		1
17	52723067	WLDMT- FLIP SHEAVE 12000/14000		1
18	52723070	WLDMT- SNATCH BLOCK 12000/14000		1
19	60030102	SHEAVE-10.50 POLYMER		1
25	60030487	CAP- A2B PIN		2
29	70034490	PLATE-ANGLE PLASTIC 3.50" (eff. from 04/04/11)		2
30	60109337	RETAINER PLT-PIN 3.00 DIA		1
38	70145121	COLLAR-SHAFT 2 PIECE 7/8 in.		1
41	70580185	CABLE ASM-1200in .50 6X31 WS IWRC XIP LR		1
42	70731813	HOOK-SWVL 7EH W/3214 LCH ASM		1
44	70734761	TRANSMITTER-RAD REM TELE S3 NON-G W-HORN (eff. from 04/16/13)		A/R
46	70734763	RECEIVER-RADIO REMOTE TELE SIII W-HORN (eff. from 04/16/13)		A/R
50	71073035	HOOK-SWVL L322 AN 5.0T W/LATCH		1
51	71414205	PLATE-SINGLE SHEAVE (20#) .50 WIRE ROPE		1
53	72034485	CLAMP-PLASTIC 1/4" CABLE		8
57	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW		1
59	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		3
74	72063142	WASHER-SS .25 LOCK TYPE 304	#4	2
75	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	#4	2
76	72601330	CAP SCR .25-20X 1.00 HH SS	#4	2
77	70034382	CAP-GREASE PRO20 GC-RED	#5	4
80	72053508	ZERK-NPT .12	#5	4
81	72060000	CAP SCR .25-20X .50 HH GR5 Z	#5	6
85	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	#5	1
88	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	#5	2
89	72062000	NUT .25-20 HEX	#5	3
91	72062103	NUT .38-16 HEX NYLOCK	#5	2
92	72062104	NUT .25-20 HEX NYLOCK	#5	6
93	72062106	NUT 10-24 HEX NYLOCK	#5	7
94	72063001	WASHER .25 FLAT	#5	18
95	72063003	WASHER .38 FLAT	#5	12
96	72063010	WASHER 1.00 FLAT	#5	1
98	72063049	WASHER .25 LOCK	#5	10
108	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	#5	1
109	72661543	PIN-QUICK 316-10QP	#5	3
110	72661694	BRIDLE RING 1-1/12ID X 1/4-20	#5	3
125	93725207	KIT-CABLE GUIDE 9500/14000		1
137	60140935	GUIDE - CABLE WEAR (WIDE)	#125	1
138	60140938	BRKT - CABLE GUIDE (WIDE)	#125	1
139	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	#125	2
REV T 20150911				

Flip Sheave Assembly (99904973)



NOTES (SEE REFERENCE NUMBER IN BOX):

1. USE BLUE LOCTITE.

FLIP SHEAVE ASSEMBLY (99904973)					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
4.	91723583	HARDWARE KIT-CRANE RADIO CONTROLS			1
5.	91725206	HARDWARE KIT (effective from 05/22/13)			1
7.	51723610	CORD REEL ASSEMBLY	30' WITH CONNECTOR		1
15.	52723069	PIN	M 2.00X 3.38		1
17.	52725155	WELDMENT- ANTI-TWO BLOCK BRACKET (effective from 04/17/13)			1
18.	52723067	WELDMENT-FLIP SHEAVE	12000/14000S		1
19.	52723070	WELDMENT- SNATCH BLOCK	12000/14000S		1
21.	60030102	SHEAVE	10.50 NYLATRON GSM		1
27.	60030487	CAP- ANTI-TWO BLOCK PIN (effective from 04/17/13)			2
32.	70034490	PLATE-ANGLE PLASTIC	3.5"		2
33.	60109337	PIN RETAINER PLATE	3.00 DIA		1
44.	70145121	COLLAR-SHAFT 2 PIECE	7/8 in.		1
47.	70580185	WIRE ROPE ASSEMBLY	0.50 (6X31)X100 ft WS IWRC XIP LR		1
48.	70731813	HOOK-SWIVEL POS LOCK			1
49.	70734748	TRANSMITTER (effective from 04/17/13)	SINGLE PROPORTIONAL		A/R

FLIP SHEAVE ASSEMBLY (99904973)					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
49.	70734761	TRANSMITTER-RADIO REMOTE (effective from 04/17/13)	GATED W/HORN		A/R
49.	70734762	TRANSMITTER-RADIO REMOTE (effective from 04/17/13)	NON-GATED W/HORN		A/R
50.	70734750	RECEIVER (effective from 04/17/13)	SINGLE PROPORTIONAL		A/R
50.	70734763	RECEIVER-RADIO REMOTE (effective from 04/17/13)			A/R
53.	71073035	HOOK-SWIVEL	5.0T W/LATCH		1
54.	71414205	PLATE-SINGLE SHEAVE	(20 #) .50 WIRE ROPE		1
56.	72034485	CLAMP-PLASTIC	1/4 " CABLE		8
60.	72661641	PIN-QUICK	5/16-2-1/16 ZINC YELLOW		1
62.	73734565	PIN-LOCK WITH HANDLE	1.00 X 3.50 WITH HAIRPIN		3
77.	72063142	WASHER	SS .25 LOCK	#4	2
78.	72063166	WASHER-FLAT	.25 R WRT 18 -8 .62 OD STAINLESS STEEL	#4	2
79.	72601330	CAP SCREW	.25-20 X 1.00 HEX HEAD STAINLESS STEEL	#4	2
80.	70034382	CAP-GREASE		#5	4
83.	72053508	ZERK	NPT 0.12	#5	4
84.	72060000	CAP SCREW	.25-20 X .50 HEX HEAD GR5 Z	#5	2
90.	72060147	CAP SCREW	.62-11 X 1.00 HEX HEAD GR5 Z	#5	1
93.	72060893	CAP SCREW	.38-16 X 3.25 HEX HEAD GR5 Z	#5	2
94.	72062000	NUT	.25-20 HEX	#5	3
96.	72062103	NUT	.38-16 HEX NYLOCK	#5	2
97.	72062104	NUT (effective from 04/12/13)	.25-20 HEX NYLOCK	#5	10
99.	72062106	NUT	10-24 HEX NYLOCK	#5	7
100.	72063001	WASHER (effective from 02/28/13)	.25 FLAT	#5	22
101.	72063003	WASHER (effective from 04/10/13)	.38 FLAT	#5	8
102.	72063010	WASHER	1.00 FLAT	#5	1
104.	72063049	WASHER (effective from 02/28/13)	.25 LOCK	#5	6
115.	72602085	BOLT-SHOULDER	.38X 1.25	#5	1
116.	72661543	PIN-QUICK		#5	3
117.	72661694	BRIDLE RING	1-1/12 ID X 1/ 4-20	#5	3
138.	93725207	KIT-CABLE GUIDE 9500/14000 (effective from 04/12/13)			1
149.	60030488	SPACER - A2B BRACKET (effective from 04/17/13)			2
150.	60140935	GUIDE - CABLE WEAR (WIDE) (effective from 04/12/13)		#138	1
151.	60140938	BRKT - CABLE GUIDE (WIDE) (effective from 04/12/13)		#138	1
152.	72060006	CAP SCREW (effective from 04/12/13)	0.25-20 X 1.5 HH GR5	#138	2
153.	72062104	NUT (effective from 04/12/13)	0.25-20 HEX NULOCK	#138	2

FLIP SHEAVE ASSEMBLY (99904973)					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
REV G 20120815					

99904973 12000 25-foot Crane Parts List, Complete (See Parts List for Effectivity Dates)

12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
1.	91723089	KIT-HRDW BASE & MAST 12000/14000		1
2.	51720680	KIT-HRDW A80 WINCH MNT		1
3.	91723543	KIT-HRDW VB MNT HAWK		1
4.	91723583	KIT-HRDW SIII RADIO CONTROLS (effective through 05/22/13)		1
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
8.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH (eff from 01/14/11)		1
9.	51723137	CYL-5.5/3.0 25.07S 45.44CC C		1
10.	51722968	CYL ASM-2.50/1.75 2.75/1.75 150S 125.0CC		1
11.	52725175	MAST WLDMNT-12000/14000 (eff. from 04/08/13)		1
12.	52725166	WLDMNT-LOWER BOOM 12000/14000S (eff. from 05/20/13)		1
13.	52725167	WLDMNT-1st STAGE EXT BOOM 12000/14000S (eff. from 04/08/13)		1
14.	52723218	WLDMNT-2ND STAGE EXT BOOM 12000/14000S		1
15.	52723069	PIN-TYPE M 2.00X 3.38		1
16.	52725155	WLDMT- A2B BRKT (eff. from 02/12/14)		1
17.	52723067	WLDMT- FLIP SHEAVE 12000/14000		1
18.	52723070	WLDMT- SNATCH BLOCK 12000/14000		1
19.	60030102	SHEAVE-10.50 POLYMER		1
20.	60030336	WEAR PAD-RC .19 X 6.00 X 6.00		1
21.	60030438	WEAR PAD-RND 0.12X 2.00X 1.00X 1.00		2
22.	60030421	WEAR PAD-RC 0.25X 6.00X 6.00		1
23.	60030422	WEAR PAD-RND SIII EXT CYL		1
24.	60030437	WEAR PAD-RC 0.19X 6.00X 2.25		4
25.	60030487	CAP- A2B PIN		2
26.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
27.	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
28.	60030442	WEAR PAD-RND 0.25X 1.00X .50X .38		2
29.	70034490	PLATE-ANGLE PLASTIC 3.50" (eff. from 04/04/11)		2
30.	60109337	RETAINER PLT-PIN 3.00 DIA		1
31.	71414167	SLIDE-ROTATION STOP 12000/14000		1
32.	60136007	GEAR GUARD 12000/14000		1
33.	60140899	CAP-LOWER BOOM CABLE GUIDE 9500-14000	#125	1
34.	60135668	CAP-FIRST STAGE		1
35.	60135669	PIN-TYPE A 1.25X 6.89 (6.46)		1
36.	60135833	RETAINER-1st STAGE EXT CYL		2
37.	52722991	BASE WLDMNT-12000/14000		1
38.	70145121	COLLAR-SHAFT 2 PIECE 7/8 in.		1
39.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
40.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
41.	70580185	CABLE ASM-1200in .50 6X31 WS IWRC XIP LR		1
42.	70731813	HOOK-SWVL 7EH W/3214 LCH ASM		1

12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
43.	70734762	TRANSMITTER-RAD REM TELE S3 GATED W-HORN (eff. from 04/16/13)		A/R
44.	70734761	TRANSMITTER-RAD REM TELE S3 NON-G W-HORN (eff. from 04/16/13)		A/R
45.	70734748	TRANSMITTER-S3 TELE SINGLE PROP		A/R
46.	70734763	RECEIVER-RADIO REMOTE TELE SIII W-HORN (eff. from 04/16/13)		A/R
47.	70734750	RECEIVER-S3 TELE SINGLE PROP		A/R
48.	71056674	GEAR-TRNTBL BRG 21.00" DIA		1
49.	76398996	GASKET-GEAR 170-00055-1	#48	1
50.	71073035	HOOK-SWVL L322 AN 5.0T W/LATCH		1
51.	71414205	PLATE-SINGLE SHEAVE (20#) .50 WIRE ROPE		1
52.	70570836	WINCH-PLANETARY 7770 LB LINE PULL (A80)		1
53.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
54.	72063038	MACHY BUSHING 2.00X14 GA NR		A/R
55.	72063039	MACHY BUSHING 2.00X10 GA NR		A/R
56.	60136102	FLANGE ADAPTOR		1
57.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW		1
58.	73511254	MOTOR-HYD 101 1752 009 (eff. from 11/30/11)		1
59.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		3
60.	73734727	VALVE BANK-4SEC 4R 10GPM TELE PROP 12V G (eff. from 07/22/12)		A/R
61.	77041863	SWITCH-LIMIT DT04-4P CONN		1
62.	77441481	HARNESS-TELE RADIO REMOTE SERIES III		A/R
63.	72601295	CAP SCR .75-10X 3.50 HH GR8 Z	#1	14
64.	72063116	WASHER .75 N FLAT H ASTM F436Z	#1	38
65.	72063285	WASHER-FLAT .75 H ASTM F436 Z-CUT	#1	2
66.	72601466	CAP SCR .75-10X 5.00 HH GR8 Z	#1	20
67.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	#1	6
68.	72060932	CAP SCR .62-11X 3.25 HH GR5 Z	#2	4
69.	72062091	NUT .62-11 HEX NYLOCK	#2	4
70.	72063007	WASHER .62 FLAT	#2	8
71.	72601797	WASHER-LOCK 8MM	#3	3
72.	72602065	WASHER-FLAT M 8 (eff. from 08/23/11)	#3	3
73.	72602052	CAP SCR M 8-1.25X 16 HHZ	#3	3
74.	72063142	WASHER-SS .25 LOCK TYPE 304	#4	2
75.	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	#4	2
76.	72601330	CAP SCR .25-20X 1.00 HH SS	#4	2
77.	70034382	CAP-GREASE PRO20 GC-RED	#5	4
78.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	#5	1
79.	72053301	COUPLING-GLV .12 SCH 40	#5	1
80.	72053508	ZERK-NPT .12	#5	4
81.	72060000	CAP SCR .25-20X .50 HH GR5 Z	#5	6
82.	72060002	CAP SCR .25-20X .75 HH GR5 Z	#5	4
83.	72060044	CAP SCR .38-16X .75 HH GR5 Z	#5	8
84.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	#5	12
85.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	#5	1
86.	72060206	CAP SCR .75-10X 2.00 HH GR8 Z	#5	1
87.	72060639	SCR-MACH 10-24X 1.25 RDH	#5	2
88.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	#5	2

12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
89.	72062000	NUT .25-20 HEX	#5	3
90.	72062093	NUT # 8-32 HEX ZINC	#5	2
91.	72062103	NUT .38-16 HEX NYLOCK	#5	2
92.	72062104	NUT .25-20 HEX NYLOCK	#5	6
93.	72062106	NUT 10-24 HEX NYLOCK	#5	7
94.	72063001	WASHER .25 FLAT	#5	18
95.	72063003	WASHER .38 FLAT	#5	12
96.	72063010	WASHER 1.00 FLAT	#5	1
97.	72063035	MACHY BUSHING 1.25X10 GA NR	#5	2
98.	72063049	WASHER .25 LOCK	#5	10
99.	72063051	WASHER .38 LOCK	#5	12
100.	72063053	WASHER .50 LOCK	#5	12
101.	72063116	WASHER-FLAT .75 N H ASTM F436 Z	#5	1
102.	72063132	WASHER .50 FLAT ASTM F436	#5	12
103.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	#5	2
104.	72066129	RETAINING RING-EXT 1.25 HD	#5	2
105.	72601031	SCR-MACH .38-16X 1.00 BTNHD	#5	4
106.	72601938	BOLT-EYE # 8-32X 1.125	#5	1
107.	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
108.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	#5	1
109.	72661543	PIN-QUICK 316-10QP	#5	3
110.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	#5	3
111.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	#6,#7	1
112.	72532355	ADPTR-M STR/M JIC 6 6	#6,#7	1
113.	72532356	ADPTR-M STR/M JIC 8 6	#6,#7	4
114.	72532357	ADPTR-M STR/M JIC 6 8	#6,#7	1
115.	72532358	ADPTR-M STR/M JIC 8 8	#6,#7	4
116.	72532359	ADPTR-M STR/M JIC 10 8	#6,#7	2
117.	72532361	ADPTR-M STR/M JIC 8 10	#6,#7	1
118.	72532670	ELBOW-M JIC/45/F JIC 8 8	#6,#7	1
119.	72532690	ELBOW-M JIC/90/F JIC SW 4 4	#6,#7	1
120.	72532700	ELBOW-M STR/90/M JIC XLG 6 6	#6,#7	2
121.	72532792	ADPTR-M STR/M JIC 8 4	#6,#7	1
122.	72533583	ELBOW-M STR/45/M JIC 8 6	#6,#7	1
123.	72534474	ELBOW-M BSPP/90/M JIC 4 4	#6,#7	1
124.	72533613	ADPTR-M STR/M JIC 10 6	#6,#7	2
125.	93725207	KIT-CABLE GUIDE 9500/14000		1
126.	60140838	COVER-VALVE BANK SIII		1
127.	60140857	BRKT-MAST VB 12000-14000		1
128.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	#5	4
129.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
130.	77441537	HARNESS-S3 TELE S-PROP VALVE BANK CERVIS		A/R
131.	60140915	PIN-TYPE NN 2.00X13.75		2
132.	60140916	PIN-TYPE NN 2.00X 9.50		1
133.	71415016	KEEPER-PIN .62		3

12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
134.	72063055	WASHER .62 LOCK	#5	3
135.	72060149	CAP SCR .62-11X 1.50 HH GR5 Z	#5	3
136.	60030488	SPACER-A2B BRACKET (eff. from 04/09/13)		2
137.	60140935	GUIDE - CABLE WEAR (WIDE)	#125	1
138.	60140938	BRKT - CABLE GUIDE (WIDE)	#125	1
139.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	#125	2
140.	72062104	NUT .25-20 HEX NYLOCK	#125	2
141.	60143080	BRKT-MAST VB 12000-14000 FP (eff. from 03/31/15)		1
142.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
143.	71415692	TUBE ASM-PRESSURE FILTER S3FP 12K 14K MA		1
144.	72534898	O-RING EXTENDER 08-08		1
145.	72053767	ELBOW-M STR/90/M JIC 12 12		1
146.	72533623	ELBOW-M STR/90/M JIC 8 12		1
REV T 20150911				

99904973 12000 25-foot Crane Parts List, Complete (See Parts List for Effectivity Dates)

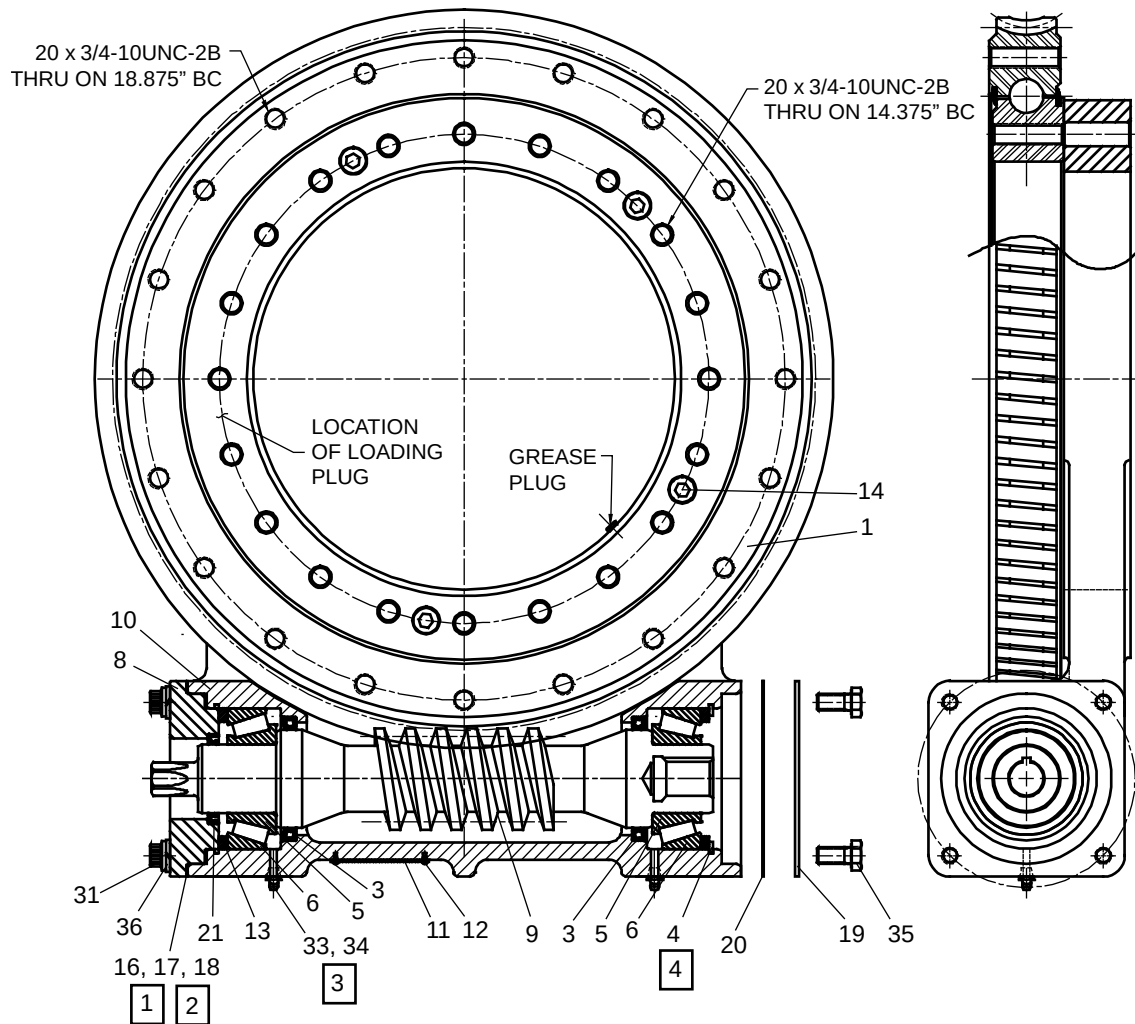
12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
1.	91723089	KIT-HRDW BASE & MAST 12000/14000		1
2.	51720680	KIT-HRDW A80 WINCH MNT		1
3.	91723543	KIT-HRDW VB MNT HAWE		1
4.	91723583	KIT-HRDW SIII RADIO CONTROLS (effective through 05/22/13)		1
5.	91725206	KIT-HRDW SERIES III 12000/14000		1
6.	91723618	KIT-HYD A80 SERIES III		A/R
7.	91725089	KIT-HYD A80 SERIES III SP		A/R
8.	51723610	CORD REEL ASM- 30FT W/PACKARD W/DEUTSCH (eff from 01/14/11)		1
9.	51723137	CYL-5.5/3.0 25.07S 45.44CC C		1
10.	51722968	CYL ASM-2.50/1.75 2.75/1.75 150S 125.0CC		1
11.	52725175	MAST WLDMNT-12000/14000 (eff. from 04/08/13)		1
12.	52725166	WLDMNT-LOWER BOOM 12000/14000S (eff. from 05/20/13)		1
13.	52725167	WLDMNT-1st STAGE EXT BOOM 12000/14000S (eff. from 04/08/13)		1
14.	52723218	WLDMNT-2ND STAGE EXT BOOM 12000/14000S		1
15.	52723069	PIN-TYPE M 2.00X 3.38		1
16.	52725155	WLDMT- A2B BRKT (eff. from 02/12/14)		1
17.	52723067	WLDMT- FLIP SHEAVE 12000/14000		1
18.	52723070	WLDMT- SNATCH BLOCK 12000/14000		1
19.	60030102	SHEAVE-10.50 POLYMER		1
20.	60030336	WEAR PAD-RC .19 X 6.00 X 6.00		1
21.	60030438	WEAR PAD-RND 0.12X 2.00X 1.00X 1.00		2
22.	60030421	WEAR PAD-RC 0.25X 6.00X 6.00		1
23.	60030422	WEAR PAD-RND SIII EXT CYL		1
24.	60030437	WEAR PAD-RC 0.19X 6.00X 2.25		4
25.	60030487	CAP- A2B PIN		2
26.	60030425	WEAR PAD-RND 0.44X 1.25X .50X .50		2
27.	60030427	WEAR PAD-RND 0.19X 2.00X 1.25X .44		4
28.	60030442	WEAR PAD-RND 0.25X 1.00X .50X .38		2
29.	70034490	PLATE-ANGLE PLASTIC 3.50" (eff. from 04/04/11)		2
30.	60109337	RETAINER PLT-PIN 3.00 DIA		1
31.	71414167	SLIDE-ROTATION STOP 12000/14000		1
32.	60136007	GEAR GUARD 12000/14000		1
33.	60140899	CAP-LOWER BOOM CABLE GUIDE 9500-14000	#125	1
34.	60135668	CAP-FIRST STAGE		1
35.	60135669	PIN-TYPE A 1.25X 6.89 (6.46)		1
36.	60135833	RETAINER-1st STAGE EXT CYL		2
37.	52722991	BASE WLDMNT-12000/14000		1
38.	70145121	COLLAR-SHAFT 2 PIECE 7/8 in.		1
39.	70399053	TAPE-REFLECTIVE RED/SILVER 1.25X72.00		2
40.	70396734	TAPE-REFLECTIVE RED/SILVER 2.00X72.00		2
41.	70580185	CABLE ASM-1200in .50 6X31 WS IWRC XIP LR		1
42.	70731813	HOOK-SWVL 7EH W/3214 LCH ASM		1
43.	70734762	TRANSMITTER-RAD REM TELE S3 GATED W-HORN (eff. from 04/16/13)		A/R

12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
44.	70734761	TRANSMITTER-RAD REM TELE S3 NON-G W-HORN (eff. from 04/16/13)		A/R
45.	70734748	TRANSMITTER-S3 TELE SINGLE PROP		A/R
46.	70734763	RECEIVER-RADIO REMOTE TELE SIII W-HORN (eff. from 04/16/13)		A/R
47.	70734750	RECEIVER-S3 TELE SINGLE PROP		A/R
48.	71056674	GEAR-TRNTBL BRG 21.00" DIA		1
49.	76398996	GASKET-GEAR 170-00055-1	#48	1
50.	71073035	HOOK-SWVL L322 AN 5.0T W/LATCH		1
51.	71414205	PLATE-SINGLE SHEAVE (20#) .50 WIRE ROPE		1
52.	70570836	WINCH-PLANETARY 7770 LB LINE PULL (A80)		1
53.	72034485	CLAMP-PLASTIC 1/4" CABLE		8
54.	72063038	MACHY BUSHING 2.00X14 GA NR		A/R
55.	72063039	MACHY BUSHING 2.00X10 GA NR		A/R
56.	60136102	FLANGE ADAPTOR		1
57.	72661641	PIN-QUICK 5/16-2-1/16 ZINC YELLOW		1
58.	73511254	MOTOR-HYD 101 1752 009 (eff. from 11/30/11)		1
59.	73734565	PIN-LOCK W/HANDLE 1.00 X 3.50 W/HAIRPIN		3
60.	73734727	VALVE BANK-4SEC 4R 10GPM TELE PROP 12V G (eff. from 07/22/12)		A/R
61.	77041863	SWITCH-LIMIT DT04-4P CONN		1
62.	77441481	HARNESS-TELE RADIO REMOTE SERIES III		A/R
63.	72601295	CAP SCR .75-10X 3.50 HH GR8 Z	#1	14
64.	72063116	WASHER .75 N FLAT H ASTM F436Z	#1	38
65.	72063285	WASHER-FLAT .75 H ASTM F436 Z-CUT	#1	2
66.	72601466	CAP SCR .75-10X 5.00 HH GR8 Z	#1	20
67.	72601629	CAP SCR .75-10X 4.00 HH GR8 Z	#1	6
68.	72060932	CAP SCR .62-11X 3.25 HH GR5 Z	#2	4
69.	72062091	NUT .62-11 HEX NYLOCK	#2	4
70.	72063007	WASHER .62 FLAT	#2	8
71.	72601797	WASHER-LOCK 8MM	#3	3
72.	72602065	WASHER-FLAT M 8 (eff. from 08/23/11)	#3	3
73.	72602052	CAP SCR M 8-1.25X 16 HHZ	#3	3
74.	72063142	WASHER-SS .25 LOCK TYPE 304	#4	2
75.	72063166	WASHER-FLAT .25 R WRT 18-8 .62OD SS	#4	2
76.	72601330	CAP SCR .25-20X 1.00 HH SS	#4	2
77.	70034382	CAP-GREASE PRO20 GC-RED	#5	4
78.	71413185	SPRING-.105WIRE 0.75OD 2.875 LG	#5	1
79.	72053301	COUPLING-GLV .12 SCH 40	#5	1
80.	72053508	ZERK-NPT .12	#5	4
81.	72060000	CAP SCR .25-20X .50 HH GR5 Z	#5	6
82.	72060002	CAP SCR .25-20X .75 HH GR5 Z	#5	4
83.	72060044	CAP SCR .38-16X .75 HH GR5 Z	#5	8
84.	72060093	CAP SCR .50-13X 1.50 HH GR5 Z	#5	12
85.	72060147	CAP SCR .62-11X 1.00 HH GR5 Z	#5	1
86.	72060206	CAP SCR .75-10X 2.00 HH GR8 Z	#5	1
87.	72060639	SCR-MACH 10-24X 1.25 RDH	#5	2
88.	72060893	CAP SCR .38-16X 3.25 HH GR5 Z	#5	2
89.	72062000	NUT .25-20 HEX	#5	3

12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
90.	72062093	NUT # 8-32 HEX ZINC	#5	2
91.	72062103	NUT .38-16 HEX NYLOCK	#5	2
92.	72062104	NUT .25-20 HEX NYLOCK	#5	6
93.	72062106	NUT 10-24 HEX NYLOCK	#5	7
94.	72063001	WASHER .25 FLAT	#5	18
95.	72063003	WASHER .38 FLAT	#5	12
96.	72063010	WASHER 1.00 FLAT	#5	1
97.	72063035	MACHY BUSHING 1.25X10 GA NR	#5	2
98.	72063049	WASHER .25 LOCK	#5	10
99.	72063051	WASHER .38 LOCK	#5	12
100.	72063053	WASHER .50 LOCK	#5	12
101.	72063116	WASHER-FLAT .75 N H ASTM F436 Z	#5	1
102.	72063132	WASHER .50 FLAT ASTM F436	#5	12
103.	72063271	WASHER # 8 W FLAT ANSI B27.2Z	#5	2
104.	72066129	RETAINING RING-EXT 1.25 HD	#5	2
105.	72601031	SCR-MACH .38-16X 1.00 BTNHD	#5	4
106.	72601938	BOLT-EYE # 8-32X 1.125	#5	1
107.	72601949	CAP SCR .50-13X 1.25 SH ZC	#5	4
108.	72602085	BOLT-SHLDR .38X 1.25 (5/16 thds) SS	#5	1
109.	72661543	PIN-QUICK 316-10QP	#5	3
110.	72661694	BRIDLE RING 1-1/12ID X 1/4-20	#5	3
111.	51395121	HOSE-AA .13 X 13.50 (2-2) 100R17	#6,#7	1
112.	72532355	ADPTR-M STR/M JIC 6 6	#6,#7	1
113.	72532356	ADPTR-M STR/M JIC 8 6	#6,#7	4
114.	72532357	ADPTR-M STR/M JIC 6 8	#6,#7	1
115.	72532358	ADPTR-M STR/M JIC 8 8	#6,#7	4
116.	72532359	ADPTR-M STR/M JIC 10 8	#6,#7	2
117.	72532361	ADPTR-M STR/M JIC 8 10	#6,#7	1
118.	72532670	ELBOW-M JIC/45/F JIC 8 8	#6,#7	1
119.	72532690	ELBOW-M JIC/90/F JIC SW 4 4	#6,#7	1
120.	72532700	ELBOW-M STR/90/M JIC XLG 6 6	#6,#7	2
121.	72532792	ADPTR-M STR/M JIC 8 4	#6,#7	1
122.	72533583	ELBOW-M STR/45/M JIC 8 6	#6,#7	1
123.	72534474	ELBOW-M BSPP/90/M JIC 4 4	#6,#7	1
124.	72533613	ADPTR-M STR/M JIC 10 6	#6,#7	2
125.	93725207	KIT-CABLE GUIDE 9500/14000		1
126.	60140838	COVER-VALVE BANK SIII		1
127.	60140857	BRKT-MAST VB 12000-14000		1
128.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	#5	4
129.	73734472	VALVE BANK-MOD.INLET (PW) 12VDC IP69		A/R
130.	77441537	HARNESS-S3 TELE S-PROP VALVE BANK CERVIS		A/R
131.	60140915	PIN-TYPE NN 2.00X13.75		2
132.	60140916	PIN-TYPE NN 2.00X 9.50		1
133.	71415016	KEEPER-PIN .62		3
134.	72063055	WASHER .62 LOCK	#5	3

12000 25-FOOT CRANE PARTS LIST, COMPLETE (99904973)				
ITEM	PART#	DESCRIPTION	KIT #	QTY
135.	72060149	CAP SCR .62-11X 1.50 HH GR5 Z	#5	3
136.	60030488	SPACER-A2B BRACKET (eff. from 04/09/13)		2
137.	60140935	GUIDE - CABLE WEAR (WIDE)	#125	1
138.	60140938	BRKT - CABLE GUIDE (WIDE)	#125	1
139.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	#125	2
140.	72062104	NUT .25-20 HEX NYLOCK	#125	2
141.	60143080	BRKT-MAST VB 12000-14000 FP (eff. from 03/31/15)		1
142.	73052156	FILTER-PRES 4000PSI 25GPM 10MIC -12		1
143.	71415692	TUBE ASM-PRESSURE FILTER S3FP 12K 14K MA		1
144.	72534898	O-RING EXTENDER 08-08		1
145.	72053767	ELBOW-M STR/90/M JIC 12 12		1
146.	72533623	ELBOW-M STR/90/M JIC 8 12		1
REV T 20150911				

Gear Rotator (71056674) (Eff. 12-1-11)



Motor Input Data:

- Mount SAE-C, 4 x 1/2-13UNC 2B on 6.375" dia BC
- Pilot - 5.002"/5.005" dia.
- Shaft - 1.000" dia with .25" square key

Transmission Data:

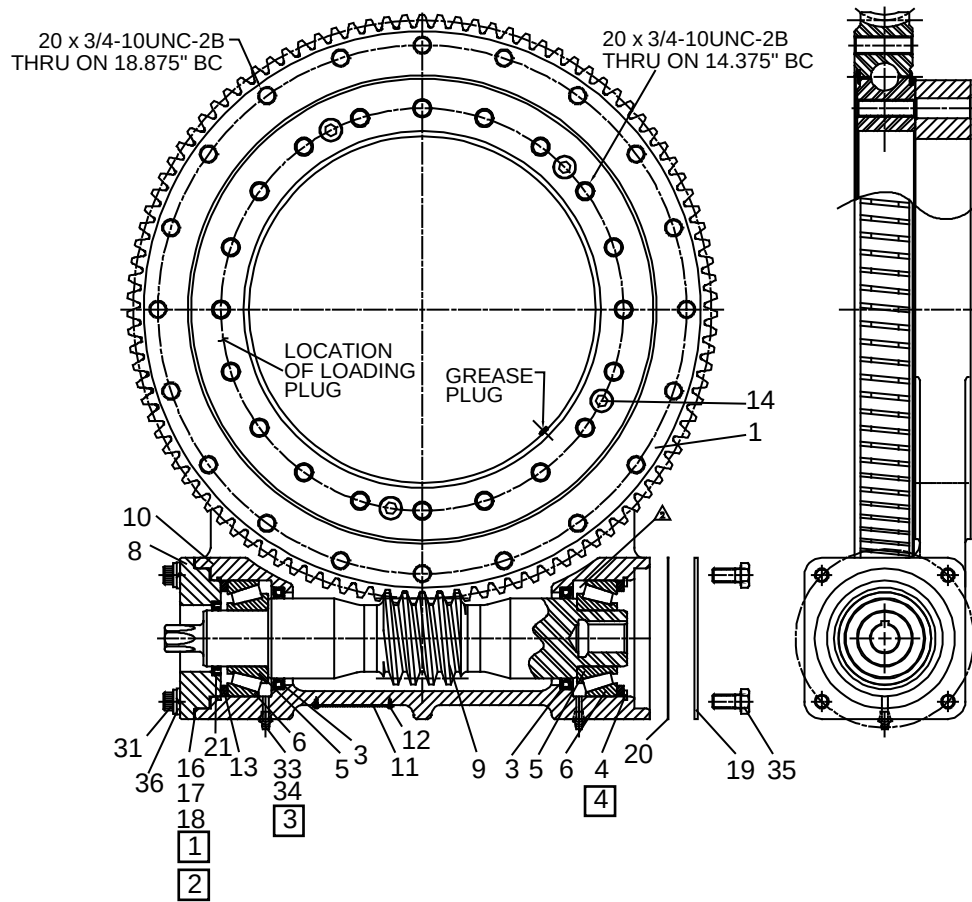
- Gear Ratio - 83:1
- Maximum Torque Output - 140,000 in-lb

NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 AT ASSEMBLY, WORM BEARING IS PRE-LOADED BY ADDING AND REMOVING SHIMS UNTIL THE END PLAY IS 0.00" AND THE SHAFT TURNS FREELY.
- 3 SET BACKLASH BETWEEN WORM AND GEAR TO 0.006"/0.012" (0.152 / 0.305 mm). TORQUE BOLTS (ITEM #14) TO 55-65 FT-LB (7.6 - 9.0 KG-M).
- 4 PRIOR TO SHIPPING, GREASE ZERK (ITEM #33) AND CAP (ITEM #34) ARE INSTALLED.
- 5 TORQUE BOLTS (ITEM #31) TO 85-96 FT-LB. (11.8 - 13.1 KG-M).

71056674 PARTS LIST				
ITEM	PART #	DESCRIPTION	DETAILS	QTY
1.		TURNTABLE BEARING		1
3.	76399215	SEAL		2
4.	76399216	RING, SNAP		1
5.	70055371	BEARING, CONE		2
6.	70055372	BEARING, CUP		2
8.	70055373	RETAINER BEARING		1
9.		WORM		1
10.	NONE	HOUSING CONVERSION		1
11.	NONE	LABEL PLATE (IOWA MOLD)		1
12.	70145503	DRIVE SCREW		2
13.	76399217	LOAD RING		2
14.	72617560	SCREW-CAP	SOC .50 NC X 2.5	4
16.	70414731	SHIM	.004, SAE C	1
17.	70414732	SHIM	.009, SAE C	1
18.	73145504	SHIM	.030, SAE C	1
19.	NONE	COVER, SHIPPING		1
20.	76399218	GASKET	SAE C4	1
21.	76399219	SEAL		1
31.	72601733	CAPSCREW	FERRY HEAD ZD 1/2NCX1.25	4
33.	72053561	ZERK,	90D, 1/8 NPT	2
34.	NONE	CAPLUG, ZERK		2
36.	NONE	LOCKWASHER	HY-COLR 1/2 ZD	4

Gear Rotator (71056661) (Thru 11-30-11)



NOTES (SEE REFERENCE NUMBER IN BOX):

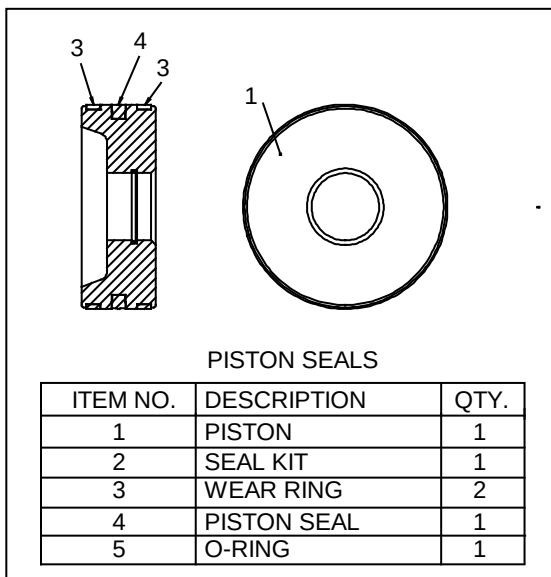
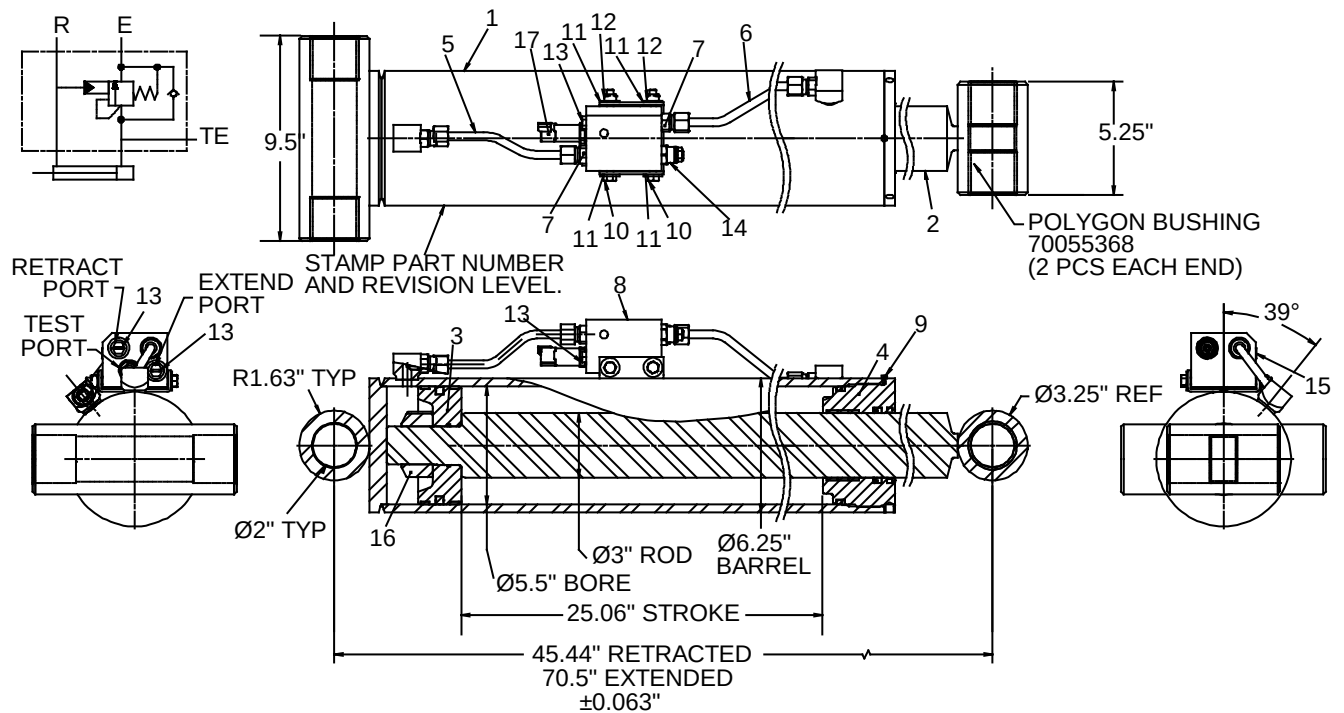
- 1 AT ASSEMBLY, WORM BEARING IS PRE-LOADED BY ADDING AND REMOVING SHIMS UNTIL THE END PLAY IS 0.00" AND THE SHAFT TURNS FREELY.
- 2 SET BACKLASH BETWEEN WORM AND GEAR TO 0.006"/0.012" (0.152 / 0.305 mm). TORQUE BOLTS (ITEM #14) TO 55-65 FT-LB (7.6 - 9.0 KG-M).
- 3 PRIOR TO SHIPPING, GREASE ZERK (ITEM #33) AND CAP (ITEM #34) ARE INSTALLED.
- 4 TORQUE BOLTS (ITEM #31) TO 85-96 FT-LB. (11.8 - 13.1 KG-M).

71056661 PARTS LIST

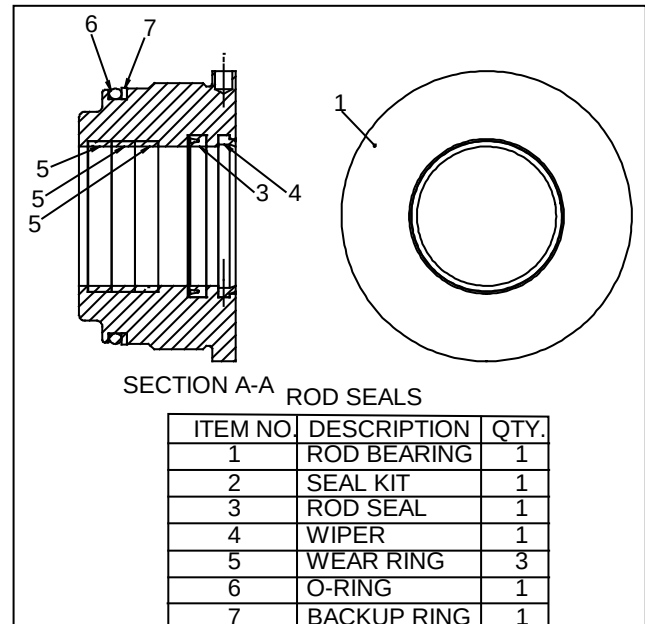
ITEM	PART #	DESCRIPTION	DETAILS	QTY
1.	71056671	TURNTABLE BEARING		1
3.	76399215	SEAL		2
4.	76399216	RING, SNAP		1
5.	70055371	BEARING, CONE		2
6.	70055372	BEARING, CUP		2
8.	70055373	RETAINER BEARING		1

71056661 PARTS LIST				
ITEM	PART #	DESCRIPTION	DETAILS	QTY
9.	70056672	WORM		1
10.	NONE	HOUSING CONVERSION		1
11.	NONE	LABEL PLATE (IOWA MOLD)		1
12.	70145503	DRIVE SCREW		2
13.	76399217	LOAD RING		2
14.	72617560	SCREW-CAP	SOC .50 NC X 2.5	4
16.	70414731	SHIM	.004, SAE C	1
17.	70414732	SHIM	.009, SAE C	1
18.	73145504	SHIM	.030, SAE C	1
19.	NONE	COVER, SHIPPING		1
20.	76399218	GASKET	SAE C4	1
21.	76399219	SEAL		1
31.	72601733	CAPSCREW	FERRY HEAD ZD 1/2NCX1.25	4
33.	72053561	ZERK,	90D, 1/8 NPT	2
34.	NONE	CAPLUG, ZERK		2
36.	NONE	LOCKWASHER	HY-COLR 1/2 ZD	4
20110509				

Lower Cylinder (51723137)



SEAL KIT # 94399132.
INCLUDES ALL SEALS. SEALS CANNOT BE PURCHASED INDIVIDUALLY.



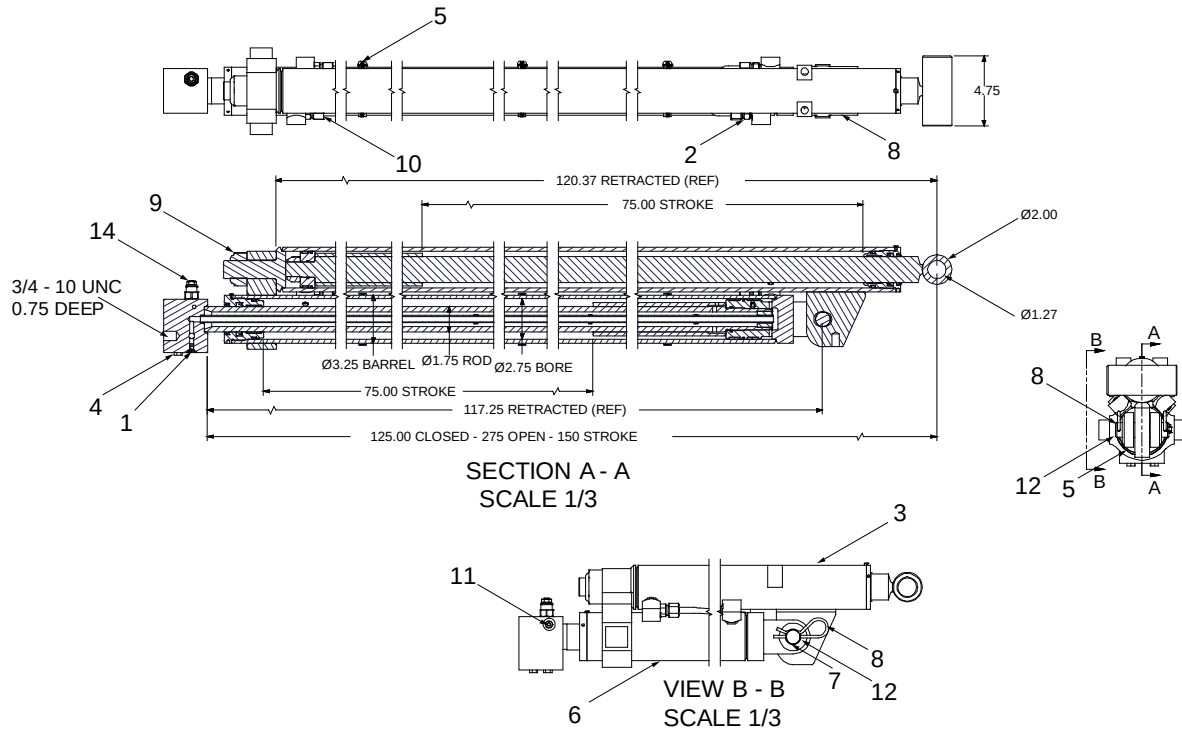
NOTES:

- 1 SEE PART NUMBER AND REVISION STAMPED ON CYLINDER.
- 2 REPLACE ALL COMPONENTS OF THE SEAL KIT WHENEVER THE CYLINDER IS DISASSEMBLED TO REDUCE DOWNTIME.
- 3 APPLY "LUBRIPLATE" NO. 630-2 MEDIUM-HEAVY, MULTI-PURPOSE LUBRICANT TO ALL PISTON, ROD BEARING AND HOLDING VALVE SEALS.
- 4 TORQUE ROD BEARING TO 500-600 FT-LB (69-83 KG-M).
- 5 TORQUE PISTON NUT (ITEM #16) TO 2285 FT-LB (39 KG-M).
- 6 TO LOCK THE ROD BEARING ON THE CYLINDER, DRILL A #26 HOLE 0.25-0.30" DEEP IN A SEAM BETWEEN THE ROD BEARING AND THE CASE. INSTALL THE LOCKING SCREW (ITEM #9, SELF-TAPPING #8-32 X 0.25" SET SCREW) IN THE HOLE UNTIL SEATED.

51723137 PARTS LIST

ITEM	PART #	DESCRIPTION	DETAILS	QUANTITY
1.	52723923	CASE		1
2.	52723924	ROD ASSEMBLY		1
3.	71414689	PISTON ASSEMBLY		1
4.	71414690	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.		HEX BOLT	5/16"-18 X 4.00 GR5	2
11.		FLAT WASHER	0.31	4
12.		NYLOC NUT	.31-18	2
13.		PLASTIC PLUG O-RING	SAE #6	3
14.	73540490	COUNTERBALANCE VALVE		1
15.		STEEL SAE O-RING PLUG #4	STEEL SAE #4	1
16.		SELF-LOCKING NUT	1.75-12 UNF	1
17.	77041866	PRESSURE TRANSDUCER		1
REF	94399132	SEAL KIT		1
REV C 20120712				

Extension Cylinder Assembly (51722968)

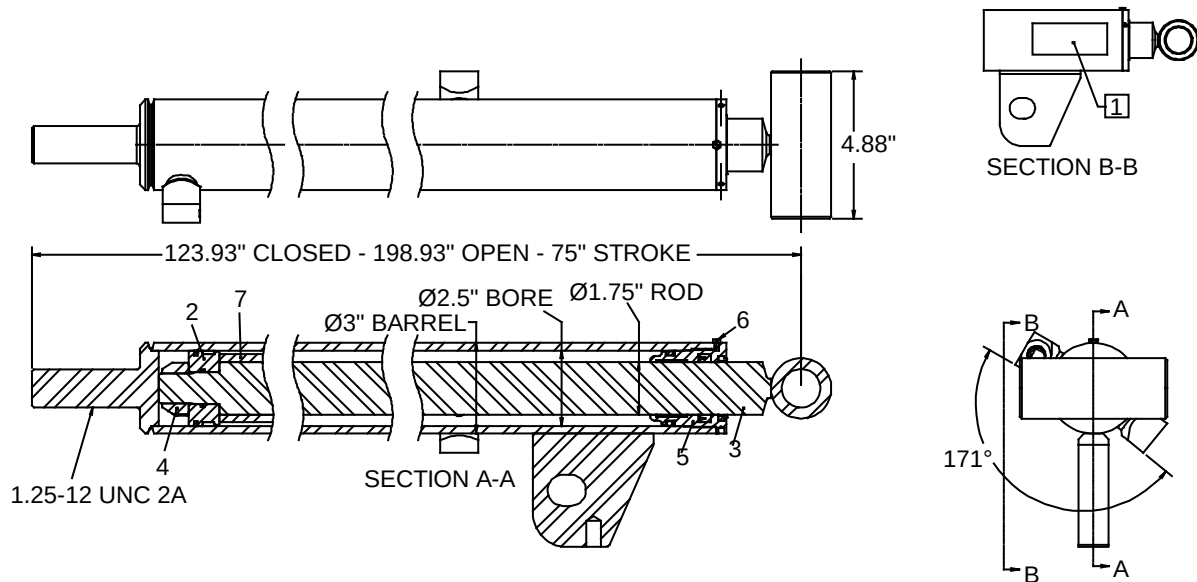


NOTES:

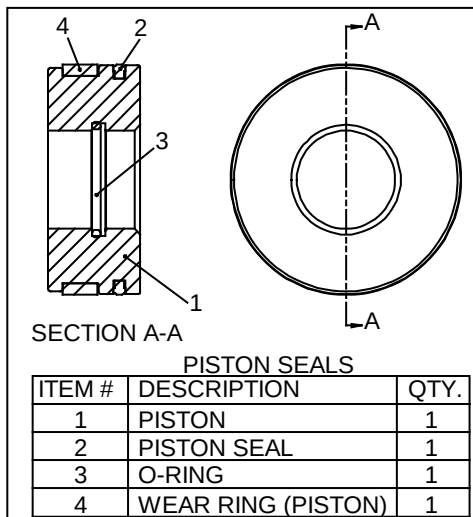
- 1 TEST CYLINDER AT 3500 PSI.
- 2 TORQUE NUT #3 (1.25-12 UNF) TO 810.7 FT-LB (112 KG-M).
- 3 PAINT BLACK SEMI-GLOSS.
- 4 INSTALL HOSE CLAMPS AFTER PAINTING.

51722968 PARTS LIST			
ITEM	PART #	DESCRIPTION	QTY
1.		SAE O – RING PLUG #2	1
2.		FITTING ADAPTER	4
3.	51723929	CLY – 2.5/1.75 75.00S 123.93CC C	1
4.		PLASTIC PLUG SAE O – RING #6	2
5.		#56 HOSE CLAMP	3
6.	51723930	CLY – 2.75/1.75 75.00S 120.25CC C	1
7.		PIN	1
8.		COTTER HAIR PIN	2
9.		1.25 – 12 SELF – LOCKING NUT	1
10.	71414721	TUBE LINE	2
11.		STEEL SAE O – RING PLUG #4	3
12.		WASHER	2
14.	73540565	VALVE – CBAL 15 GPM 4.5:1 T11 – A @ 4000 PSI	1
REV.E 20151228			

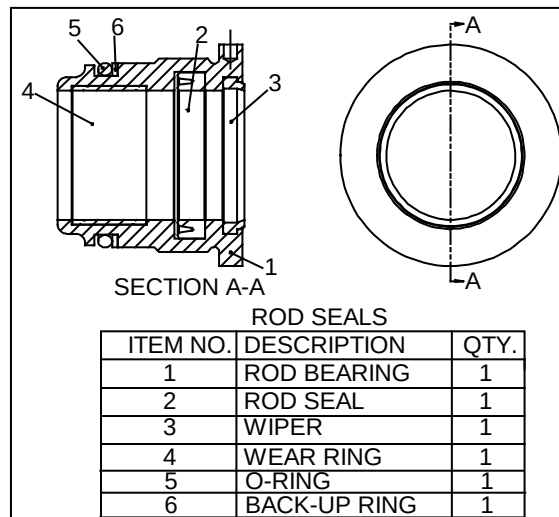
Cylinder (51723929)



SEALS FOR 51723929 PISTON



SEALS FOR 51723929 ROD BEARING



PART OF SEAL KIT # 94399161, WHICH INCLUDES ALL ROD AND PISTON SEALS FOR 51723929. SEALS CANNOT BE PURCHASED INDIVIDUALLY.

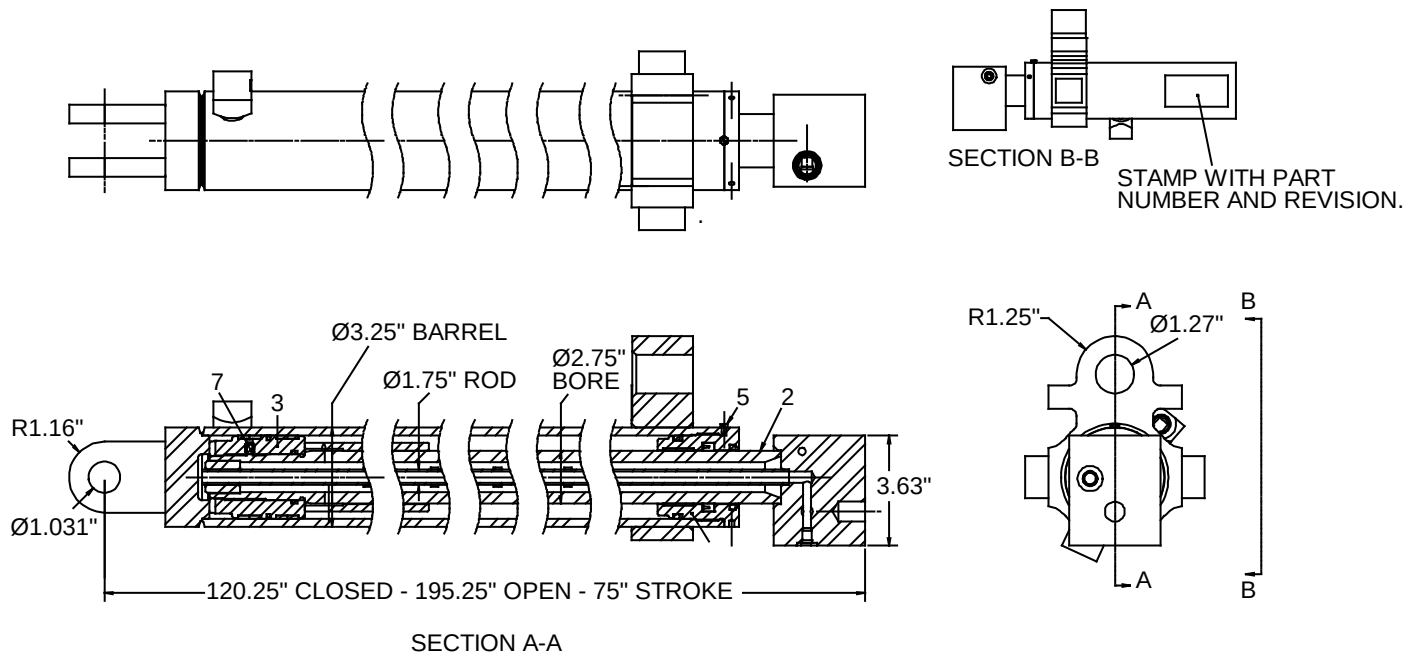
NOTES:

- 1 SEE PART NUMBER AND REVISION STAMPED ON CYLINDER.
- 2 REPLACE ALL COMPONENTS OF THE SEAL KIT WHENEVER THE CYLINDER IS DISASSEMBLED TO REDUCE DOWNTIME.
- 3 APPLY "LUBRIPLATE" NO. 630-2 MEDIUM-HEAVY, MULTI-PURPOSE LUBRICANT TO ALL PISTON, ROD BEARING AND HOLDING VALVE SEALS.
- 4 TORQUE ROD BEARING TO 200-300 FT-LB (27.6 - 41.5 KG-M).

- 5 TORQUE PISTON NUT TO 412.3 FT-LB (57 KG-M).
- 6 TO LOCK THE ROD BEARING ON THE CYLINDER, DRILL A #26 HOLE 0.25-0.30" DEEP IN A SEAM BETWEEN THE ROD BEARING AND THE CASE. INSTALL THE LOCKING SCREW (ITEM #9, SELF-TAPPING #8-32 X 0.25" SET SCREW) IN THE HOLE UNTIL SEATED.
- 7 SEAL KIT 94399161 INCLUDES ALL SEALS FOR CYLINDER 51723929.

51723929 PARTS LIST				
ITEM	PART #	DESCRIPTION	DETAILS	QUANTITY
1.	52724032	CASE		1
2.	71414724	PISTON ASSEMBLY		1
3.	71414725	ROD ASSEMBLY		1
4.		SELF-LOCKING NUT	1.00-14 UNF	1
5.	71414722	ROD BEARING ASSEMBLY		1
6.		LOCKING SCREW		1
7.	73050021	STROKE LIMITER		1
REF	94399161	SEAL KIT		1
NEW 20110511				

Cylinder (51723930)



PISTON SEALS

ITEM #	DESCRIPTION	QTY.
1	PISTON	1
2	PISTON SEAL	1
3	O-RING	1
4	WEAR RING (PISTON)	4

ROD SEALS

ITEM #	DESCRIPTION	QTY.
1	ROD BEARING	1
2	ROD SEAL	1
3	WIPER	1
4	O-RING	1
5	BACKUP RING	1
6	WEAR RING	1

PART OF SEAL KIT # 94399162, WHICH INCLUDES ALL ROD AND PISTON SEALS FOR 51723930. SEALS CANNOT BE PURCHASED INDIVIDUALLY.

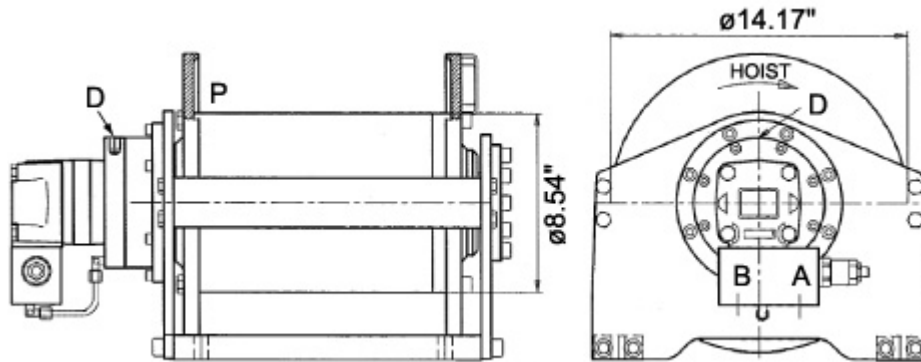
NOTES:

- 1 SEE PART NUMBER AND REVISION STAMPED ON CYLINDER.
- 2 REPLACE ALL COMPONENTS OF THE SEAL KIT WHENEVER THE CYLINDER IS DISASSEMBLED TO REDUCE DOWNTIME.

- 3 APPLY "LUBRIPLATE" NO. 630-2 MEDIUM-HEAVY, MULTI-PURPOSE LUBRICANT TO ALL PISTON, ROD BEARING AND HOLDING VALVE SEALS.
- 4 TORQUE ROD BEARING TO 200-300 FT-LB (27.6 - 41.5 KG-M).
- 5 TORQUE PISTON TO 200-300 FT-LB (27.7 - 41.5 KG-M).
- 6 TO LOCK THE ROD BEARING ON THE CYLINDER, DRILL A #26 HOLE 0.25-0.30" DEEP IN A SEAM BETWEEN THE ROD BEARING AND THE CASE. INSTALL THE LOCKING SCREW (ITEM #9, SELF-TAPPING #8-32 X 0.25" SET SCREW) IN THE HOLE UNTIL SEATED.
- 7 SEAL KIT 94399162 INCLUDES ALL SEALS FOR CYLINDER 51723930.

51723930 PARTS LIST				
ITEM	PART #	DESCRIPTION	DETAILS	QUANTITY
1.	52723925	CASE		1
2.	52724036	ROD ASSEMBLY		1
3.	71414725	PISTON ASSEMBLY		1
4.	71414726	ROD BEARING ASSEMBLY		1
5.		LOCKING SCREW		1
6.	73050204	STROKE LIMITER		1
7.		SET SCREW	.25-20 UNC NYLON TIP	1
REF	94399162	SEAL KIT		1
NEW 20110407				

Winch Specifications (70570836)



WINCH SPECIFICATIONS

LAYER	LINE PULL (POUNDS)	LINE SPEED (FPM)	CAPACITY (FT)
1	7770	54	56
2	7000	60	119
3	6360	66	188
4	5830	72	263

PERFORMANCE ESTIMATE

PRESSURE	2550 PSI
FLOW	12 GPM
MOTOR DISPLACEMENT	7.67 CI/REV
GEAR RATIO	15:1

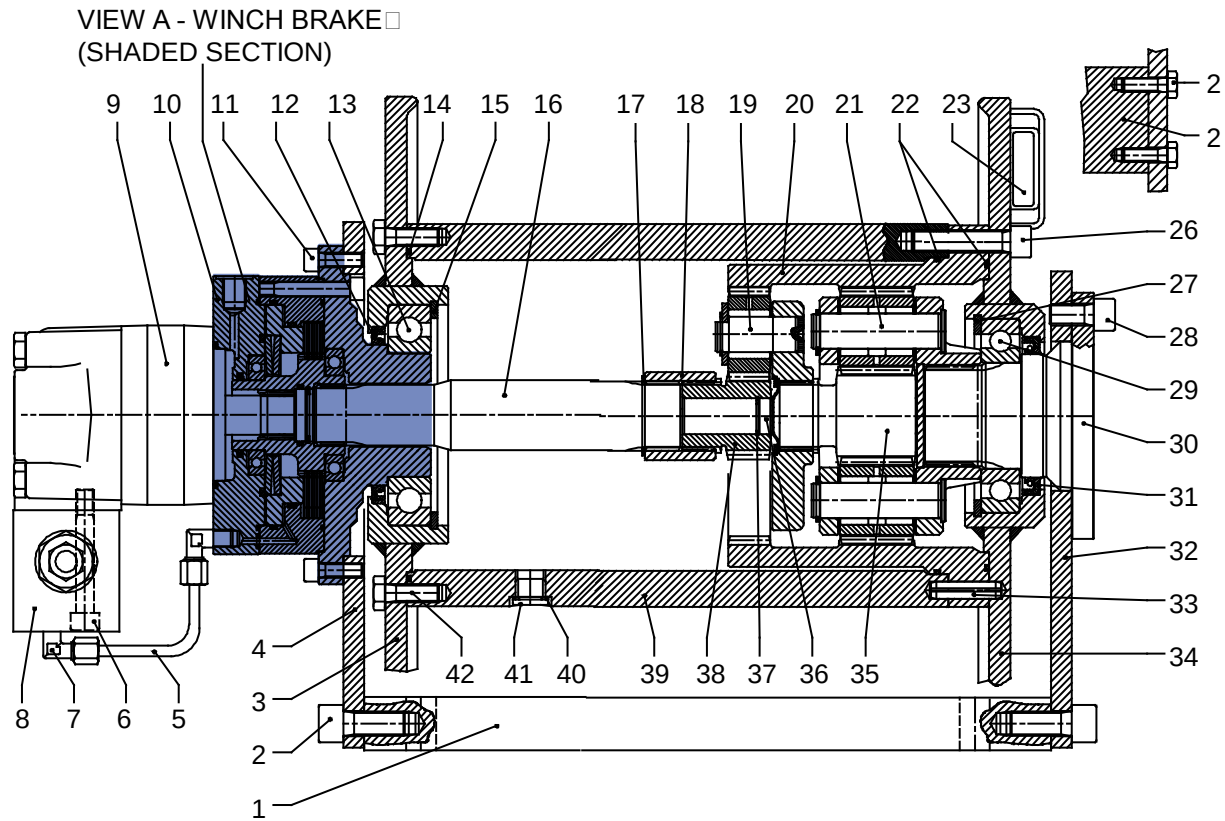
DRUM SPECIFICATIONS

DRUM DIAMETER	8.54 INCHES
FLANGE DIAMETER	14.17 INCHES
ROPE	1/2" DIAMETER

PORTS

A (HOISTING PORT)	3/4" BSPP
B (LOWERING PORT)	3/4" BSPP
D (MOTOR CASE DRAIN)	1/4" BSP
P (LUBRICATION OIL PLUG)	3/8" BSP

Winch Parts (70570836)

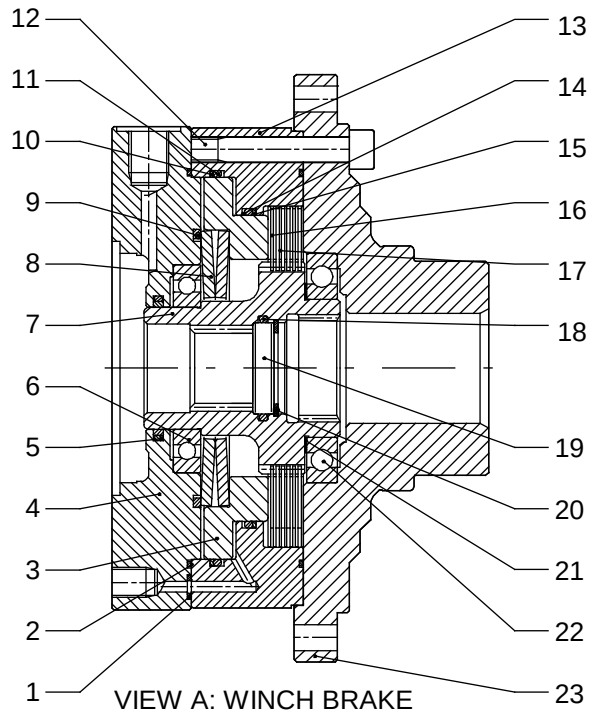


70570836 PARTS LIST

ITEM	PART #	DESCRIPTION	QUANTITY
1.		CROSS MEMBER (LOWER)	2
2.		SOCKET HEAD CAP SCREW	8
3.		SIDE PANEL, MOTOR SIDE	1
4.		SUPPORT, MOTOR SIDE	1
5.		PIPE	1
6.		SOCKET HEAD CAP SCREW	2
7.		90° CONNECTION (CONICAL)	2
8.	73540344	DUAL COUNTERBALANCE VALVE ASSEMBLY (WAS 73540247)	1
9.	73540248	HYDRAULIC MOTOR	1
10.	71056622	BRAKE UNIT	1
11.		SOCKET HEAD CAP SCREW	8
12.	PART OF 94397044	OIL RETAINER SEAL	1
13.		BALL BEARING	1
14.	PART OF 94397044	O-RING JOINT	1
15.	72661627	RETAINING RING, INTERNAL, LH	1

70570836 PARTS LIST			
ITEM	PART #	DESCRIPTION	QUANTITY
16.		PROPELLER SHAFT	1
17.		RETAINING RING	1
18.		SLEEVE	1
19.		REDUCTION GEAR UNIT	1
20.		SPUR RING	1
21.		SHAFT	1
22.	PART OF 94397044	O-RING JOINT	2
23.	70580215	WEDGE, WINCH CABLE	1
24.		HEX SCREW	8
25.		CROSS MEMBER (UPPER)	2
26.		SOCKET HEAD CAP SCREW	6
27.	72661628	RETAINING RING, INTERNAL, RH	1
28.		SOCKET HEAD CAP SCREW	10
29.		BALL BEARING	1
30.		ANTI-ROTATION FLANGE	1
31.	PART OF 94397044	OIL RETAINER SEAL	1
32.		GEAR SIDE SUPPORT	1
33.		SPRING PIN	2
34.		REDUCTION GEAR SIDE BODY	1
35.		DRIVE SHAFT	1
36.		INSERT	1
37.		RETAINING RING	1
38.		SUN GEAR	1
39.		WINCH DRUM	1
40.		COPPER WASHER	1
41.		PLUG	1
42.		HEX SCREW	6
REF	94397044	SEAL KIT (INCL. 12,14,22,31)	1
REV 20081021			

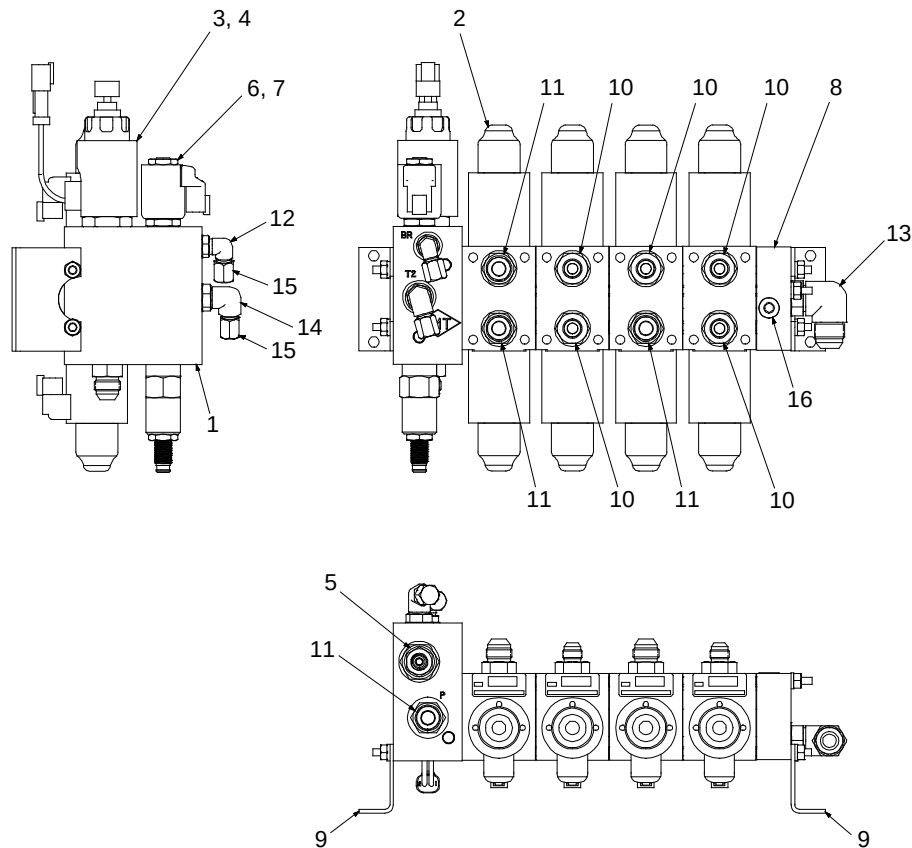
70570836 WINCH BRAKE



70570836 WINCH BRAKE PARTS LIST			
ITEM	PART #	DESCRIPTION	QUANTITY
1.		O-RING JOINT	1
2.		O-RING JOINT	2
3.		PISTON	1
4.		FLANGE	1
5.	PART OF 94397044	SEAL	1
6.		BALL BEARING	1
7.		GEAR	1
8.	72063237	BELLEVILLE WASHER	2
9.		SHOULDER RING	1
10.	PART OF 94397044	O-RING JOINT	1
11.		ANTI-EXTRUSION RING	1
12.		SOCKET HEAD CAP SCREW	8
13.		BRAKE BODY	1
14.		O-RING JOINT	1
15.		ANTI-EXTRUSION RING	1
16.	71412640	DISC, FRICTION	7
17.	71412641	DISC, BRAKE	6
18.		O-RING JOINT	1
19.		INSERT	1
20.		RETAINING RING	1

70570836 WINCH BRAKE PARTS LIST			
ITEM	PART #	DESCRIPTION	QUANTITY
21.		SHIM RING	1
22.		BALL BEARING	1
23.		SUPPORTING FLANGE	1
REF	94397044	SEAL KIT (INCL 5,10)	1

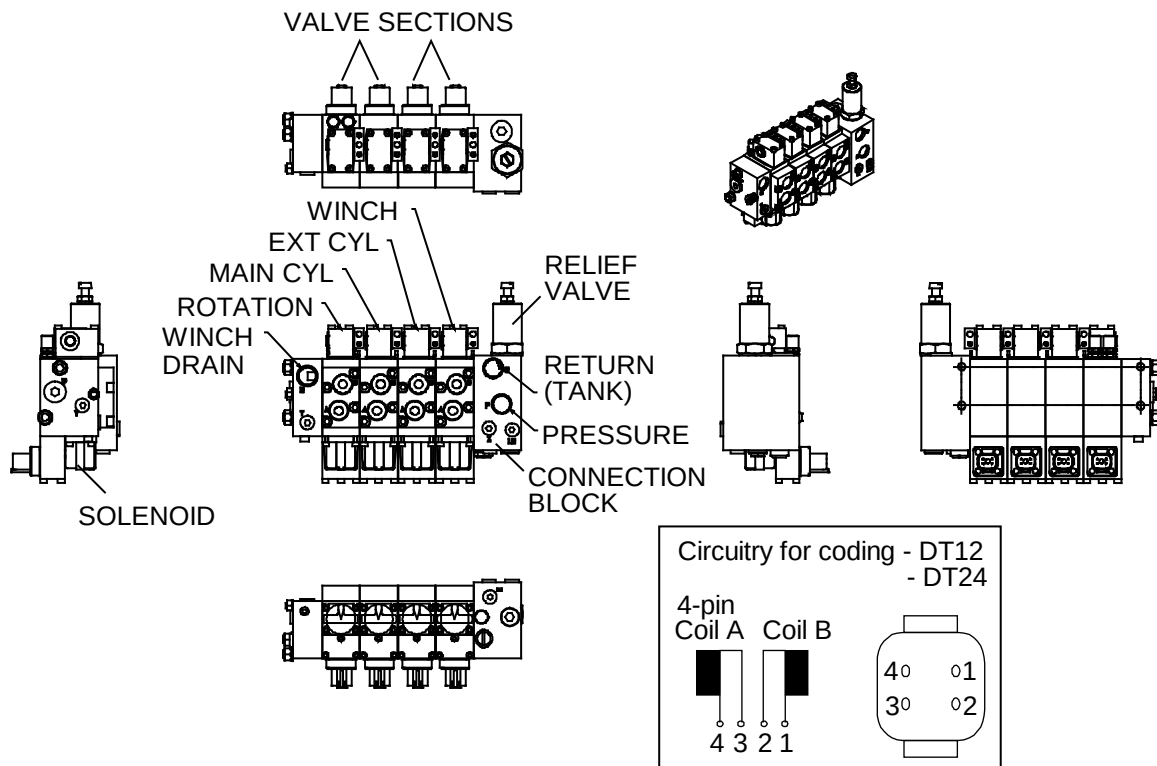
Valvebank (73734772)



73734472 PARTS LIST			
ITEM	PART #	DESCRIPTION	QTY
1.	73540394	VALVE BODY	1
2.	73540375	VALVE SECTION	4
3.	73540252	VALVE-P. FLOW CONTROL	1
4.	73540253	COIL (PART OF #3)	1
5.	73540396	RELIEF VALVE	1
6.	73540397	VALVE-SPOOL	1
7.	73540256	COIL-S SERIES 12VDC DEUTSCH	1
8.	73540027	END PLATE	1
9.	70145830	MOUNTING FOOT	2
10.	72532356	ADPTR-M STR/M JIC 8 6	5
11.	72532358	ADPTR-M STR/M JIC 8 8	4
12.	72053758	ELBOW-M STR/90/M JIC 4 4	1
13.	72533507	ELBOW-M STR/90/M JIC 8 10	1
14.	72532699	ELBOW-M STR/90/M JIC 6 4	1
15.	72532674	CAP-JIC STL 4 (.44 THD)	2
16.	72534561	PLUG-STR SOC HD STL 6 ZERO LEAK	1
REV C 20140908			

Valvebank (73734727)

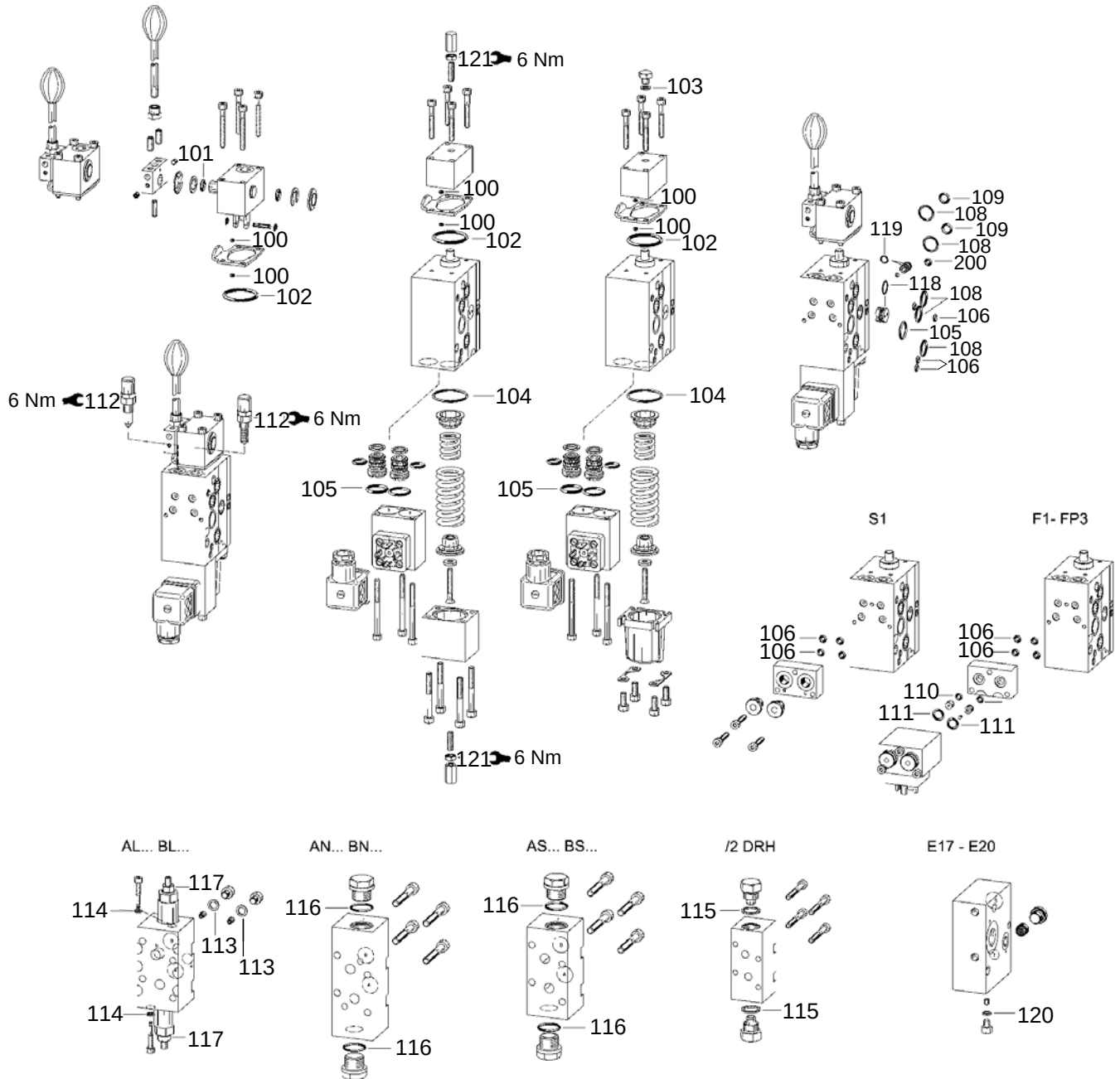
WAS 73734635 THROUGH S/N 12000121005.



73734727 PARTS LIST

PART #	DESCRIPTION	QUANTITY
94399213	SEAL KIT, CONNECTION BLOCK	1
94399214	SEAL KIT, SEALS BETWEEN SECTIONS	1
77041898	SOLENOID, 12V	4
77040598	12V COIL FOR 77041898 SOLENOID	

Seal Kit for 73734727 (94399214)



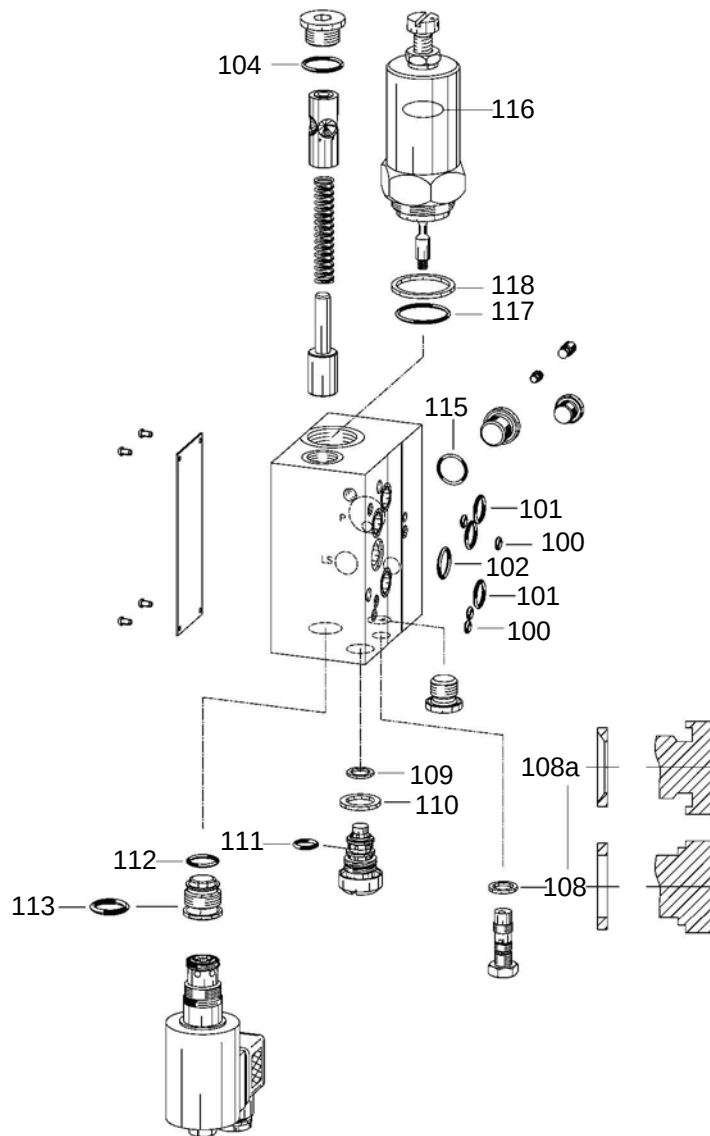
94399214 SEAL KIT PARTS

ITEM	DESCRIPTION	DETAILS	QUANTITY
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

94399214 SEAL KIT PARTS			
ITEM	DESCRIPTION	DETAILS	QUANTITY
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	8
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.

Connection Block Seal Kit for 73734727 (94399213)

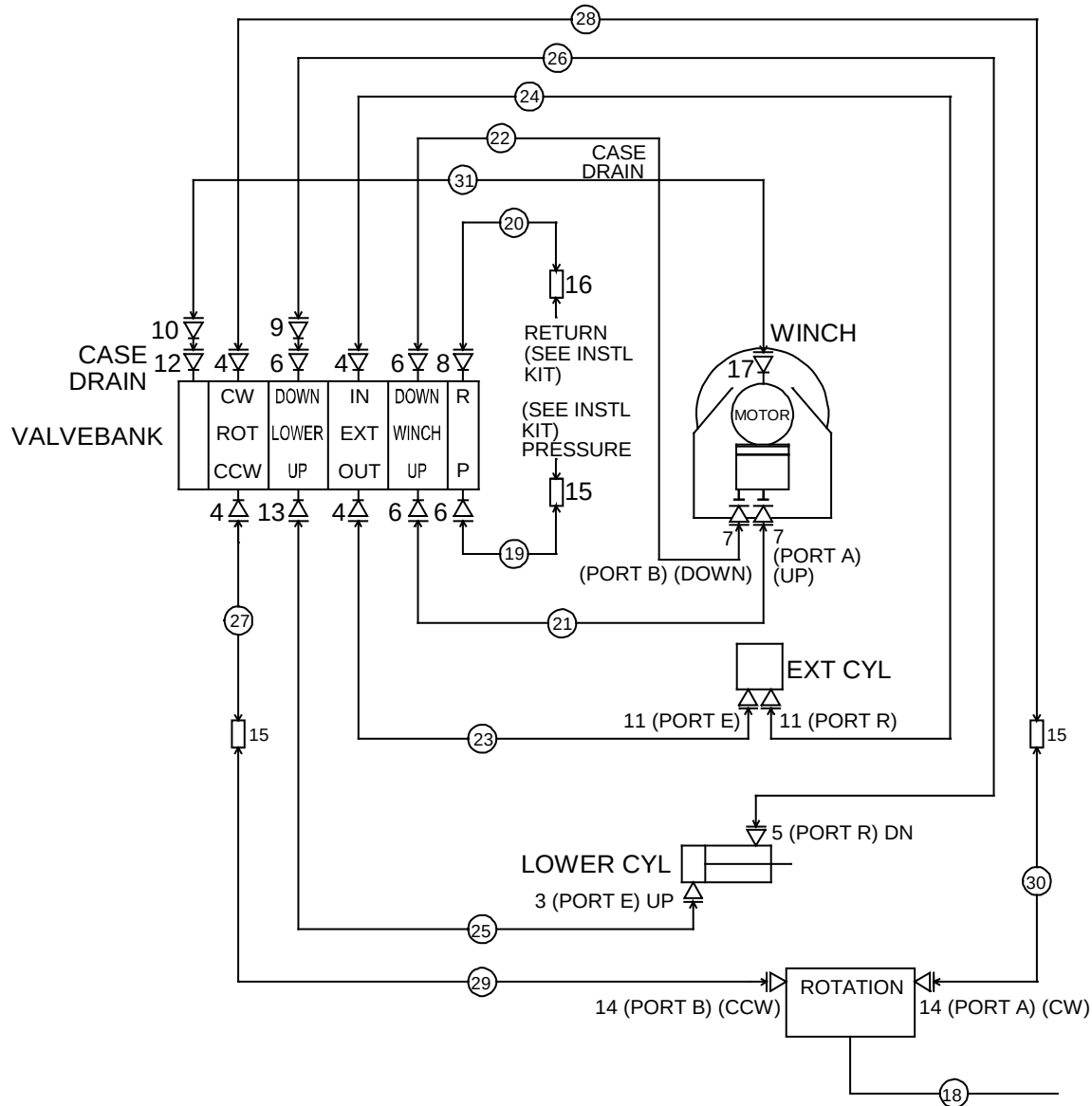


CONNECTION BLOCK SEAL KIT FOR 73734727 (94399213)			
ITEM	DESCRIPTION	DETAILS	QUANTITY
100.	O-RING	2.90x1.78 Z24	4
101.	O-RING	10.82x1.78 P5001	3
102.	O-RING	12.42x1.78 P5001	1
104.	O-RING	17.17 x 1.78 P 5001	1
108.	COPPER RING	SHAPE A DIN 7603 10X14X1.5-Cu	1
108a.	FITTING SEAL		1
109.	SEAL RING	8.3X11X1.15 PTFE 7625 109/1	1
110.	SEAL	1/4" DRV	1

CONNECTION BLOCK SEAL KIT FOR 73734727 (94399213)			
ITEM	DESCRIPTION	DETAILS	QUANTITY
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

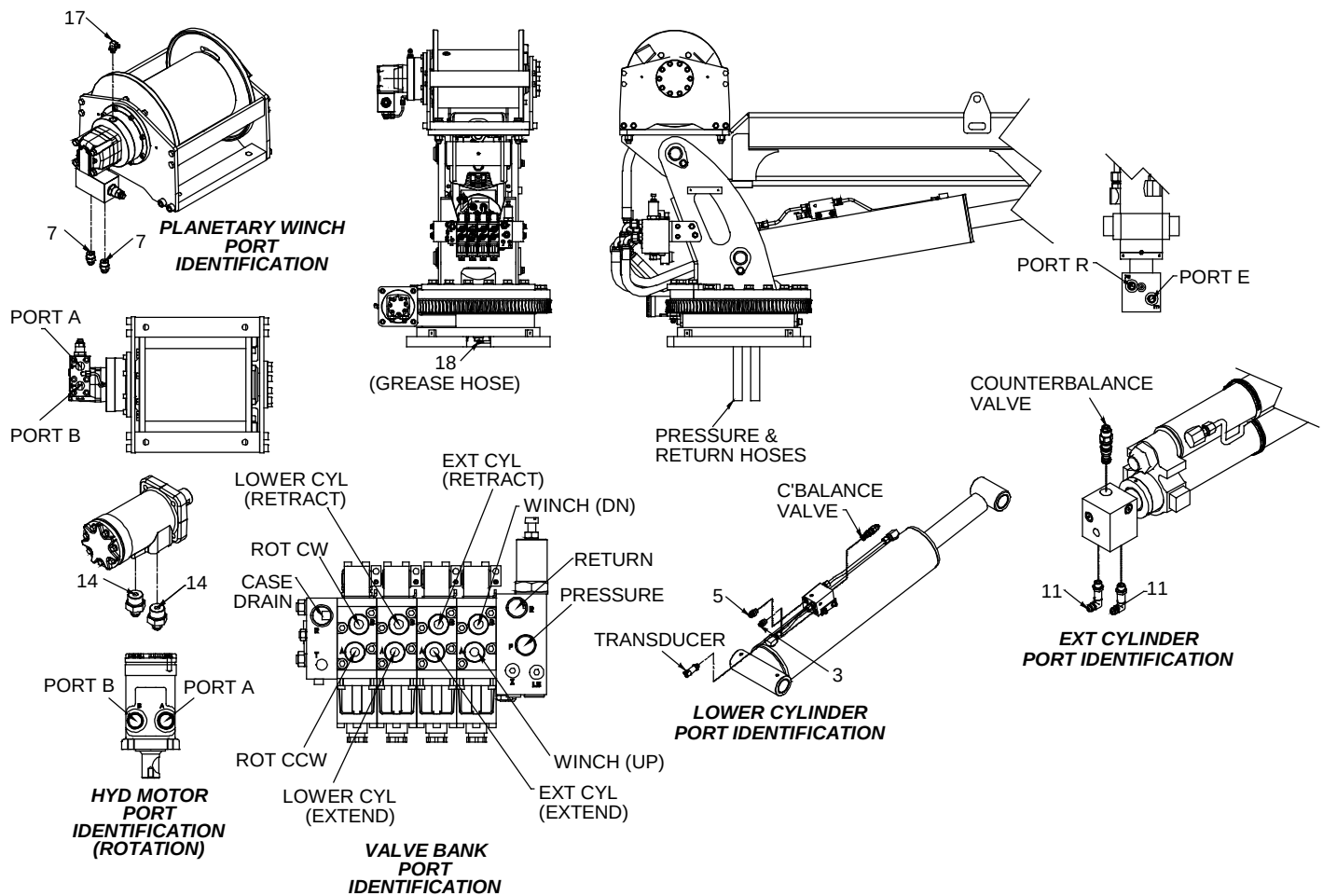
NOTE: These seals are all part of 94399213, and cannot be purchased individually.

Hydraulic Schematic Fully Proportional (99905036)



NOTES:

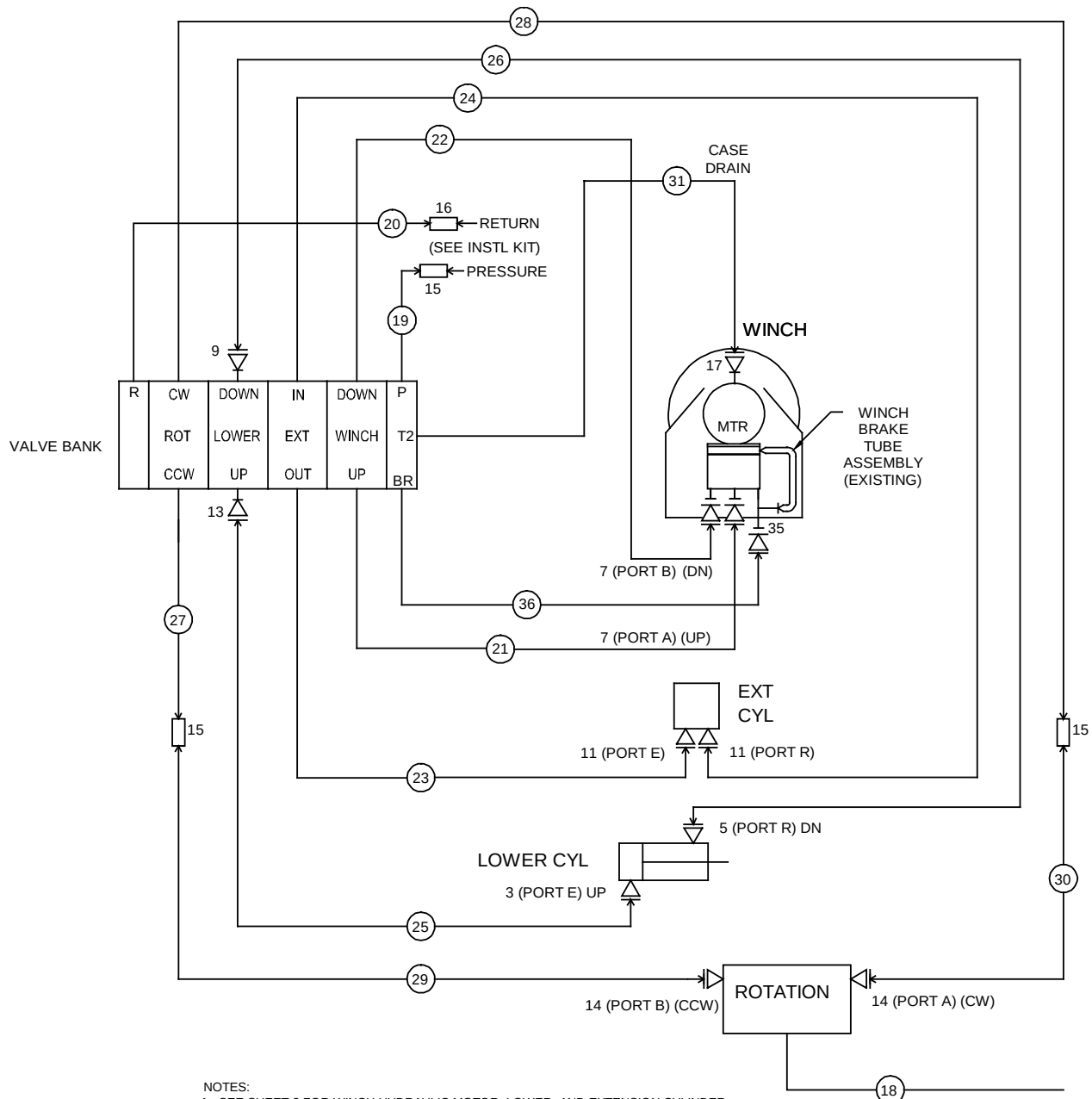
- 1 USE SLEEVE 60350141 FOR EXTENSION CYLINDER, LOWER CYLINDER, AND ROTATION HOSES.
- 2 USE SLEEVE 60350142 FOR WINCH AND PRESSURE / RETURN VALVE BANK HOSES.
- 3 USE SLEEVE 60350105 FOR PRESSURE / RETURN HOSES AND ROTATION HOSES THROUGH THE MAST.


99905018 PARTS LIST

ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
1.	91723618	HYDRAULIC KIT-A80			1
2.	73734727	VALVE BANK (WAS 73734635, 73734553)	4SECTION 10 GPM PROPORTIONAL		1 REF
3.	72532355	ADAPTER	M STR/M JIC 6 6	#1	1
4.	72532356	ADAPTER	M STR/M JIC 8 6	#1	4
5.	72532357	ADAPTER	M STR/M JIC 6 8	#1	1
6.	72532358	ADAPTER	M STR/M JIC 8 8	#1	3
7.	72532359	ADAPTER	M STR/M JIC 10 8	#1	2
8.	72532361	ADAPTER	M STR/M JIC 8 10	#1	1
9.	72532670	ELBO W	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	ADAPTER	M STR/M JIC 8 4	#1	1
13.	72533583	ELBO W	M STR/45/M JIC 8 6	#1	1
14.	72533613	ADAPTER	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.	72534474	ELBOW	M BSPP/90/J MIC 4 4	#1	1

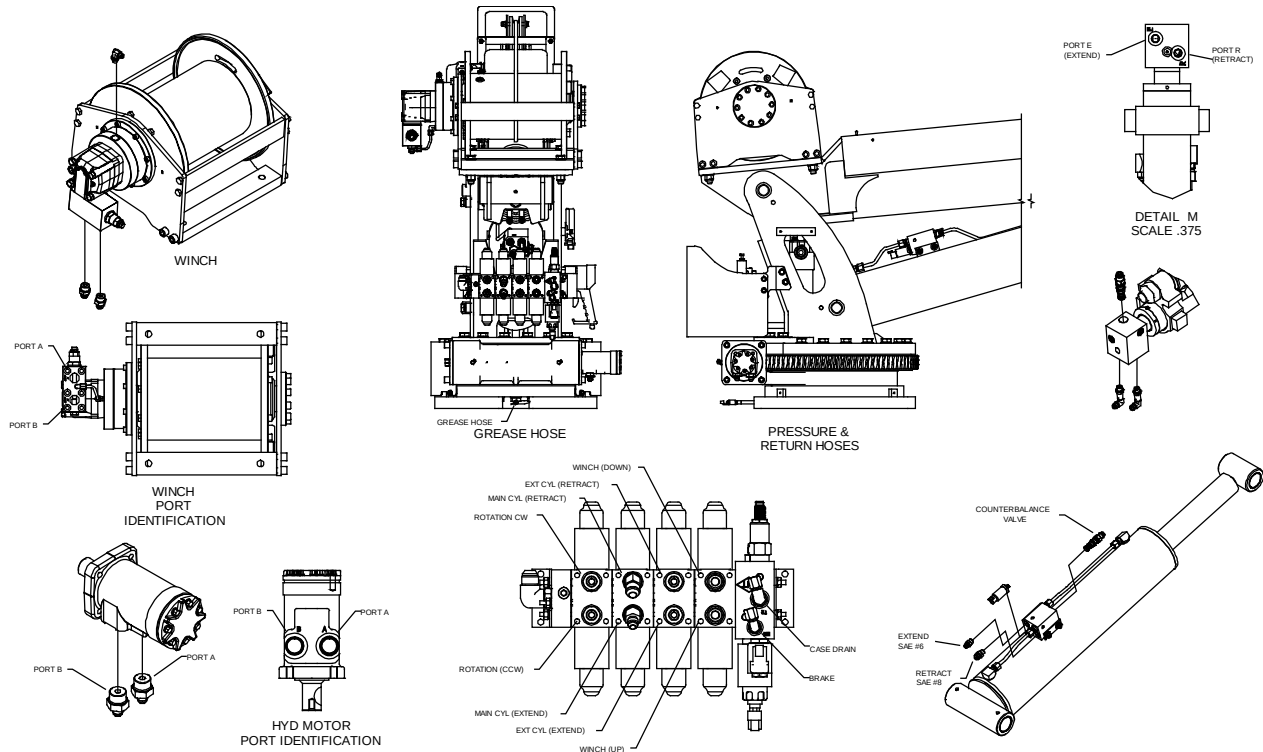
99905018 PARTS LIST					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
18.	51395121	HOSE-AA	.13 X 13.50 (2-2) 100R17	#1	1
19.	51396017	HOSE-FJ	.50 X 30.00 (8-8) 100R16	#1	1
20.	51397080	HOSE-FJ	.62 X 30.00 (10-10) 100R17	#1	1
21.	51397081	HOSE-FZ	.50 X 31.50 (8-8) 100R17	#1	1
22.	51397082	HOSE-FJ	.50 X 31.00 (8-8) 100R17	#1	1
23.	51397266	HOSE-FZ	.38 X 33.50 (6-6) 100R17	#1	1
24.	51399159	HOSE-FJ	.38 X 32.50 (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.	51397270	HOSE-FZ	.25 X 32.00 (4-4) 100R17	#1	1
32.	60350141	SLEEVE-HOSE	159 X 12 CUT & SEALED	#1	3
33.	60350142	SLEEVE-HOSE	254 X 15 CUT & SEALED	#1	2
34.	60350105	SLEEVE-HOSE	4" DIA WRAP AROUND		1
REV T 20150911					

Hydraulic Schematic Single Proportional (99905597)



NOTES:

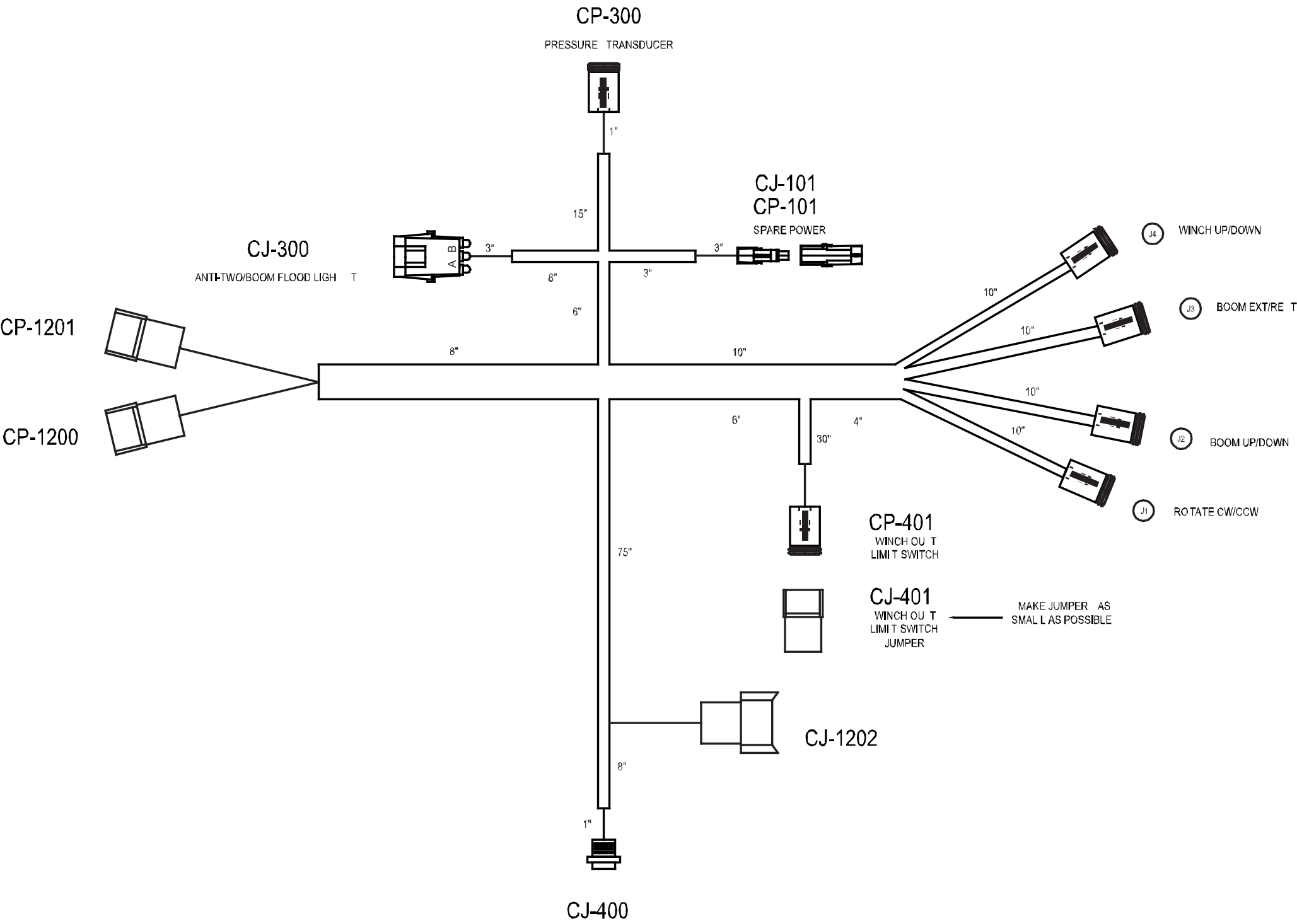
1. SEE SHEET 2 FOR WINCH HYDRAULIC MOTOR, LOWER, AND EXTENSION CYLINDER.
2. INSTALL 60350141 ON EXTENSION CYLINDER, MAIN CYLINDER HOSES AND ROTATION HOSES.
3. INSTALL 60350142 ON WINCH HOSES & PRESSURE AND RETURN VALVE BANK HOSES.
4. INSTALL 60350105 ON PRESSURE & RETURN HOSES, AND ROTATION HOSES THRU MAST.

**99905597 PARTS LIST**

ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
1.	91725089	HYDRAULIC KIT-A80			1
3.	72532355	ADAPTER	M STR/M JIC 6 6	#1	1
5.	72532357	ADAPTER	M STR/M JIC 6 8	#1	1
7.	72532359	ADAPTER	M STR/M JIC 10 8	#1	2
9.	72532670	ELBO W	M JIC/45/F JIC 8 8	#1	1
11.	72532700	ELBOW	M STR/90/M JIC XLG 6 6	#1	2
13.	72533583	ELBO W	M STR/45/M JIC 8 6	#1	1
14.	72533613	ADAPTER	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.	72534474	ELBOW	M BSP/90/J MIC 4 4	#1	1
18.	51395121	HOSE-AA	.13 X 13.50 (2-2) 100R17	#1	1
19.	51396017	HOSE-FJ	.50 X 30.00 (8-8) 100R16	#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.	51397266	HOSE-FZ	.38 X 33.50 (6-6) 100R17	#1	1
24.	51399159	HOSE-FJ	.38 X 32.50 (6-6) R10017	#1	1
25.	51399462	HOSE-FJ	.38 X 31.00 (6-6) 100R17	#1	1
26.	51399463	HOSE-FZ	.50 X 32.00 (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

99905597 PARTS LIST					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
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.	51396914	HOSE-FZ	.25 X 32.00 (4-4) 100R17	#1	1
32.	60350141	SLEEVE-HOSE	159 X 12 CUT & SEALED	#1	3
33.	60350142	SLEEVE-HOSE	254 X 15 CUT & SEALED	#1	2
34.	51726252	KIT-DINAMIC	WINCH BRAKE RELEASE		1
35.	72534910	TEE-STL	MBSPT/MDIN/MDIN 2 6 6 RUN	#34	1
36.	51399668	HOSE-FDF	.25 X 32.00 (6-4) 100R17	#34	1
REV D 20160126					

Radio Remote Harness (77441481)



Radio Remote Harness (77441481)

LOCATOR CODE: CP-101				WEATHERPACK: 12015791		
TERM: 12124580				SEAL: 12015323		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
A	WHT	16	SPARE PWR	TO	CJ-1202	9

LOCATOR CODE: CJ-101				WEATHERPACK: 12010996		
TERM: -				PLUG: 12010300		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
A	-	-	-	TO	-	-

LOCATOR CODE: CP-300				DEUTSCH: DT06-3S		
TERM: 0462-201-16141				WEDGE: W3S PLUG: 114017		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
A	WHT	16	TRANS PWR	TO	SPL P	-
B	WHT	16	TRANS SIG	TO	CP-1200	11
C	-	-	-	TO	-	-

LOCATOR CODE: CJ-300				PACKARD: 12010717		
TERM: 12124582				SEAL: 12015323/12010293		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
A	WHT	16	GROUND	TO	SPL G	-
B	WHT	16	A2B SIG	TO	CP-1200	8
C	WHT	14	BOOM FLD LT	TO	CJ-1202	12

LOCATOR CODE: CJ-400				BRND/HARP.S: 8R5400A18A120		
FAP: 80012(TIE TO HARNESS) OR EQUIV						
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
-	BRN	22	CAN LOW	TO	CP-1201	8
-	WHT	22	TETHER PWR	TO	CP-1201	6
-	BLU	22	CAN HIGH	TO	CP-1201	5
-	BLK	22	GROUND	TO	SPL G	-

LOCATOR CODE: CP-401				DEUTSCH: DT06-4S		
TERM: 0462-201-16141				WEDGE: W4S		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
1	WHT	16	WINCH OUT	TO	J4	4
2	-	-	-	TO	-	-
3	-	-	-	TO	-	-
4	WHT	16	WINCH OUT	TO	CP-1201	4

LOCATOR CODE: CJ-401				DEUTSCH: DT04-4P		
TERM: 0460-202-16141				WEDGE: W4P PLUG: 114017		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
1	WHT	16	WINCH OUT	TO	CJ-401	4
2	-	-	-	TO	-	-
3	-	-	-	TO	-	-
4	WHT	16	WINCH OUT	TO	CJ-401	1

LOCATOR CODE: J1				DEUTSCH: DT06-4S		
TERM: 0462-201-16141				WEDGE: W4S PLUG: 114017		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
1	WHT	16	ROT CCW	TO	CP-1201	11
2	WHT	16	GND	TO	SPL R	-
3	WHT	16	GND	TO	SPL R	-
4	WHT	16	ROT CW	TO	CP-1201	12

LOCATOR CODE: J2				DEUTSCH: DT06-4S		
TERM: 0462-201-16141				WEDGE: W4S PLUG: 114017		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
1	WHT	16	BOOM DN	TO	CP-1201	2
2	WHT	16	GND	TO	SPL B	-
3	WHT	16	GND	TO	SPL B	-
4	WHT	16	BOOM UP	TO	CP-1201	1

LOCATOR CODE: J3				DEUTSCH: DT06-4S		
TERM: 0462-201-16141				WEDGE: W4S PLUG: 114017		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
1	WHT	16	BOOM RET	TO	CP-1201	10
2	WHT	16	GND	TO	SPL E	-
3	WHT	16	GND	TO	SPL E	-
4	WHT	16	BOOM EXT	TO	CP-1201	9

LOCATOR CODE: J4				DEUTSCH: DT06-4S		
TERM: 0462-201-16141				WEDGE: W4S PLUG: 114017		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
1	WHT	16	WINCH IN	TO	CP-1201	3
2	WHT	16	GND	TO	SPL W	-
3	WHT	16	GND	TO	SPL W	-
4	WHT	16	WINCH OUT	TO	CP-401	1

LOCATOR CODE: CP-1200				DEUTSCH: DTM06-12SA		
TERM: 1062-20-0122				WEDGE: WM12S CAVITY PLUG: 0413-204-2005		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
1	WHT	16	POWER	TO	SPL P	-
2	-	-	-	TO	-	-
3	WHT	16	ENG SPD	TO	CJ-1202	5
4	WHT	16	ENG START	TO	CJ-1202	6
5	WHT	16	ENG STOP	TO	CJ-1202	2
6	WHT	16	COMP ON	TO	SPL C	-
7	WHT	16	CRANE HOUR M	TO	CJ-1202	8
8	WHT	16	A2B SIG	TO	CJ-300	B
9	WHT	16	HORN (1)	TO	CJ-1202	11
10	WHT	16	HORN (2)	TO	CJ-1202	10
11	WHT	16	TRANS SIG	TO	CP-300	B
12	WHT	16	GROUND	TO	SPL G	-

LOCATOR CODE: CP-1201				DEUTSCH: DTM06-12SB		
TERM: 1062-20-0122				WEDGE: WM12S CAVITY PLUG: 0413-204-2005		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
1	WHT	16	BOOM UP	TO	J2	4
2	WHT	16	BOOM DN	TO	J2	1
3	WHT	16	WINCH IN	TO	J4	1
4	WHT	16	WINCH OUT	TO	CP-401	4
5	BLU	22	CAN HIGH	TO	CJ-400	-
6	WHT	22	TETHER PWR	TO	CJ-400	-
7	WHT	16	POWER	TO	SPL P	-
8	BRN	22	CAN LOW	TO	CJ-400	-
9	WHT	16	BOOM EXT	TO	J3	4
10	WHT	16	BOOM RET	TO	J3	1
11	WHT	16	ROT CCW	TO	J1	1
12	WHT	16	ROT CW	TO	J1	4

LOCATOR CODE: CJ-1202				DUETSCH DT04-12PA		
TERM: 0460-215-16141				WEDGE: W12P		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
1	WHT	16	SELECTOR	TO	SPL C	-
2	WHT	16	ENG STOP	TO	CP-1200	5
3	WHT	14	GROUND	TO	SPL G	-
4	WHT	16	COMP ON	TO	SPL C	-
5	WHT	16	ENG SPD	TO	CP-1200	3
6	WHT	16	ENG START	TO	CP-1200	4
7	WHT	14	POWER	TO	SPL P	-
8	WHT	16	CRANE HOUR M	TO	CP-1200	7
9	WHT	16	SPARE PWR	TO	CP-101	A
10	WHT	16	HORN (2)	TO	CP-1200	10
11	WHT	16	HORN (1)	TO	CP-1200	9
12	WHT	14	BOOM FLD LT	TO	CJ-300	C

LOCATOR CODE: -				SPLICE B		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
-	WHT	16	GND	TO	J2	2
-	WHT	16	GND	TO	J2	3
-	WHT	16	GND	TO	SPL G	-

LOCATOR CODE: -				SPLICE C		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
-	WHT	16	COMPON	TO	CP-1200	6
-	WHT	16	SELECTOR	TO	CJ-1202	1
-	WHT	16	COMPON	TO	CJ-1202	4

LOCATOR CODE: -				SPLICE E		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
-	WHT	16	GND	TO	J3	2
-	WHT	16	GND	TO	J3	3
-	WHT	16	GND	TO	SPL G	-

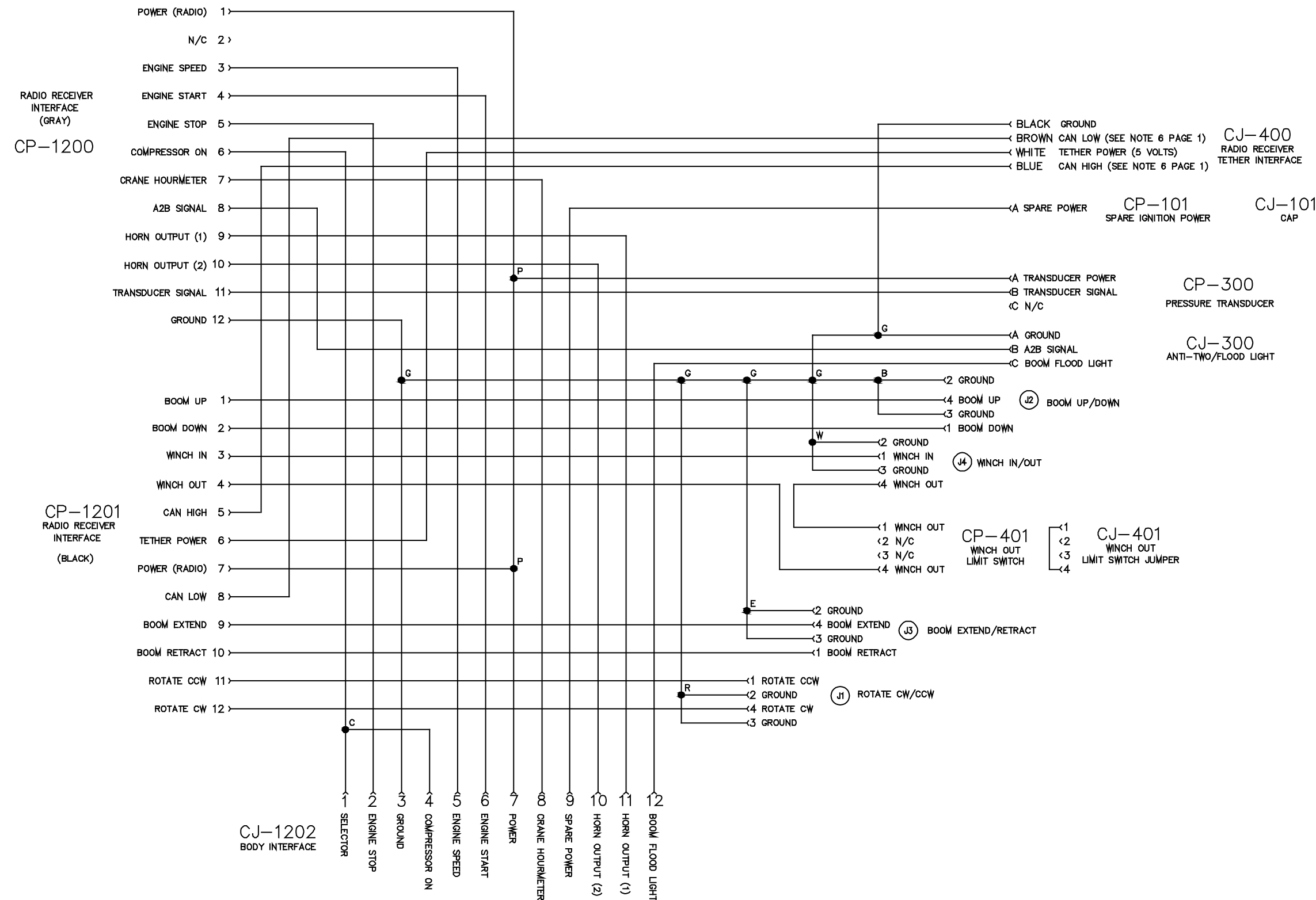
LOCATOR CODE: -				SPLICE G		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
-	WHT	14	GROUND	TO	CJ-1202	3
-	WHT	16	GROUND	TO	CP-1200	12
-	WHT	16	GROUND	TO	CJ-300	A
-	WHT	16	STOW SEN GND	TO	CJ-401	B
-	WHT	16	GND	TO	SPL B	-
-	WHT	16	GND	TO	SPL E	-
-	WHT	16	GND	TO	SPL R	-
-	WHT	16	GND	TO	SPL W	-
-	BLK	22	GROUND	TO	CJ-400	-

LOCATOR CODE: -				SPLICE P		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
-	WHT	14	POWER	TO	CJ-1202	7
-	WHT	16	POWER	TO	CP-1200	1
-	WHT	16	POWER	TO	CP-1201	7
-	WHT	16	POWER	TO	CP-300	A

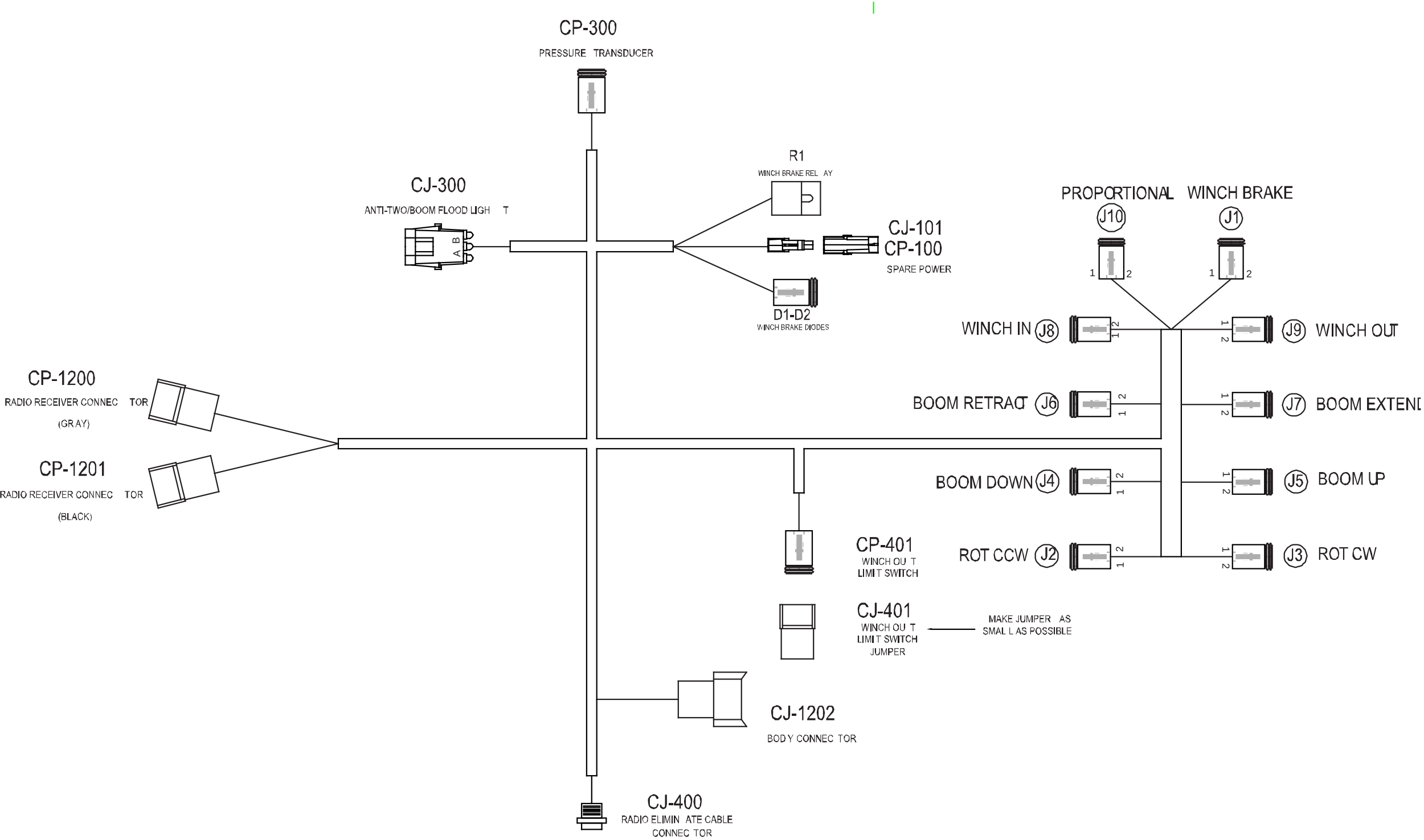
LOCATOR CODE: -				SPLICE R		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
-	WHT	16	GND	TO	J1	2
-	WHT	16	GND	TO	J1	3
-	WHT	16	GND	TO	SPL G	-

LOCATOR CODE: -				SPLICE W		
CAVIT Y	COLOR	GA.	PRIN T L ABE L	TO	CON-SPLC	CAVIT Y
-	WHT	16	GND	TO	J4	2
-	WHT	16	GND	TO	J4	3
-	WHT	16	GND	TO	SPL G	-

Radio Remote Harness (77441481)



Radio Remote Harness-Single Proportional (77441537)



Radio Remote Harness-Single Proportional (77441537)

LOCATOR CODE: CP-300 DEUTSCH: DT06-3S					
TERM: 0462-201-16141 WEDGE: W3S PLUG: 114017					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
A	WHT	16	TRANS PWR	TO	SPL P -
B	WHT	16	TRANS SIG	TO	CP-1200 11
C	-	-	-	TO	- -

LOCATOR CODE: CJ-300 PACKARD: 12010717					
TERM: 12124582 SEAL: 12015323/12010293					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
A	WHT	16	GROUND	TO	SPL G -
B	WHT	16	A2B SIG	TO	CP-1200 8
C	WHT	14	BOOM FLDT	TO	CJ-1202 12

LOCATOR CODE: CJ-400 8MD/HARRIS: 8R5A00A18A120					
EAP: 80012(TIE TO HARNESS) OR EQUIV					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	BRN	22	CAN LOW	TO	CP-1201 8
-	WHT	22	TETHER PWR	TO	CP-1201 6
-	BLU	22	CAN HIGH	TO	CP-1201 5
-	BLK	22	GROUND	TO	SPL G -

LOCATOR CODE: CP-401 DEUTSCH: DT06-4S					
TERM: 0462-201-16141 WEDGE: W4S PLUG: 114017					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	WINCH OUT	TO	SPL D -
2	-	-	-	TO	- -
3	-	-	-	TO	- -
4	WHT	18	WINCH OUT	TO	CP-1201 4

LOCATOR CODE: CJ-401 DEUTSCH: DT04-4P					
TERM: 0460-202-16141 WEDGE: W4P PLUG: 114017					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	WINCH OUT	TO	CJ-401 4
2	-	-	-	TO	- -
3	-	-	-	TO	- -
4	WHT	18	WINCH OUT	TO	CJ-401 1

LOCATOR CODE: J1 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL G -
2	WHT	18	WINCH BRK	TO	R1 87

LOCATOR CODE: J2 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL R -
2	WHT	18	ROT CCW	TO	CP-1201 11

LOCATOR CODE: J3 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL R -
2	WHT	18	ROT CW	TO	CP-1201 12

LOCATOR CODE: J4 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL B -
2	WHT	18	BOOM DN	TO	CP-1201 2

LOCATOR CODE: J5 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL B -
2	WHT	18	BOOM UP	TO	CP-1201 1

LOCATOR CODE: J6 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL E -
2	WHT	18	BOOM RET	TO	CP-1201 10

LOCATOR CODE: J7 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL E -
2	WHT	18	BOOM EXT	TO	CP-1201 9

LOCATOR CODE: J8 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL W -
2	WHT	18	WINCH IN	TO	SPL F -

LOCATOR CODE: J9 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL G -
2	WHT	18	WINCH OUT	TO	SPL D -

LOCATOR CODE: J10 DEUTSCH: DT06-2S					
TERM: 0462-201-16141 WEDGE: W2S					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	GND	TO	SPL G -
2	WHT	18	PROP OUT	TO	CP-1200 2

LOCATOR CODE: CP-1200 DEUTSCH: DTM06-18A					
TERM: 1062-20-0122 WEDGE: WM123 CAVITY PLUG: 0413-204-2005					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	16	PWR	TO	SPL P -
2	WHT	18	PROP OUT	TO	J10 2
3	WHT	16	ENG SPD	TO	CJ-1202 5
4	WHT	16	ENG START	TO	CJ-1202 6
5	WHT	16	ENG STOP	TO	CJ-1202 2
6	WHT	16	COMP ON	TO	SPL C -
7	WHT	16	CRANE HOUR M	TO	CJ-1202 8
8	WHT	16	A2B SIG	TO	CJ-300 8
9	WHT	16	HORN (1)	TO	CJ-1202 11
10	WHT	16	HORN (2)	TO	CJ-1202 10
11	WHT	16	TRANS SIG	TO	CP-300 8
12	WHT	16	GND	TO	SPL G -

LOCATOR CODE: CP-1201 DEUTSCH: DTM06-12S					
TERM: 1062-20-0122 WEDGE: WM123 CAVITY PLUG: 0413-204-2005					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	BOOM UP	TO	J5 2
2	WHT	18	BOOM DN	TO	J4 2
3	WHT	18	WINCH IN	TO	SPL F -
4	WHT	18	WINCH OUT	TO	CP-401 4
5	BLU	22	CAN HIGH	TO	CJ-400 -
6	WHT	22	TETHER PWR	TO	CJ-400 -
7	WHT	16	POWER	TO	SPL P -
8	BRN	22	CAN LOW	TO	CJ-400 -
9	WHT	18	BOOM EXT	TO	J7 2
10	WHT	18	BOOM RET	TO	J6 2
11	WHT	18	ROT CCW	TO	J2 2
12	WHT	18	ROT CW	TO	J3 2

LOCATOR CODE: CJ-1202 DUETSCHDT04-18A					
TERM: 0460-215-16141 WEDGE: W12P					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	16	SELECTOR	TO	SPL C -
2	WHT	16	ENG STOP	TO	CP-1200 5
3	WHT	14	GND	TO	SPL G -
4	WHT	16	COMP ON	TO	SPL C -
5	WHT	16	ENG SPD	TO	CP-1200 3
6	WHT	16	ENG START	TO	CP-1200 4
7	WHT	14	PWR	TO	SPL P -
8	WHT	16	CRANE HOUR M	TO	CP-1200 7
9	WHT	16	SPARE PWR	TO	CP-101 A
10	WHT	16	HORN (2)	TO	CP-1200 10
11	WHT	16	HORN (1)	TO	CP-1200 9
12	WHT	14	BOOM FLDT	TO	CJ-300 C

LOCATOR CODE: CP-101 WEATHERPACK: 12015791					
TERM: 12124580 SEAL: 12015323					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
A	WHT	16	SPARE PWR	TO	CJ-1202 9

LOCATOR CODE: CJ-101 WEATHERPACK: 12010996					
TERM: - PLUG: 12010300					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
A	-	-	-	TO	- -

LOCATOR CODE: D1 DEUTSCH: DT06-2S					
TERM: 0462-209-16141 WEDGE: W2S DIODE: DT04-2PRT-01					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	WINCH BRK	TO	SPL A -
2	WHT	18	WINCH IN	TO	SPL F -

LOCATOR CODE: D2 DEUTSCH: DT06-2S					
TERM: 0462-209-16141 WEDGE: W2S DIODE: DT04-2PRT-01					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
1	WHT	18	WINCH BRK	TO	SPL A -
2	WHT	18	WINCH OUT	TO	SPL D -

LOCATOR CODE: - SPLICE A					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	18	WINCH BRK	TO	D1 1
-	WHT	18	WINCH BRK	TO	D2 1
-	WHT	18	WINCH BRK	TO	R1 86

LOCATOR CODE: - SPLICE B					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	18	GND	TO	J4 1
-	WHT	18	GND	TO	J5 1
-	WHT	16	GND	TO	SPL G -

LOCATOR CODE: - SPLICE C					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	16	COMP ON	TO	CP-1200 6
-	WHT	16	COMP ON	TO	CJ-1202 1
-	WHT	16	COMP ON	TO	CJ-1202 4

LOCATOR CODE: - SPLICE D					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	18	WINCH OUT	TO	CP-401 1
-	WHT	18	WINCH OUT	TO	D2 2
-	WHT	18	WINCH OUT	TO	J9 2

LOCATOR CODE: - SPLICE E					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	18	GND	TO	J6 1
-	WHT	18	GND	TO	J7 1
-	WHT	16	GND	TO	SPL G -

LOCATOR CODE: - SPLICE F					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	18	WINCH IN	TO	CP-1201 3
-	WHT	18	WINCH IN	TO	D1 2
-	WHT	18	WINCH IN	TO	J8 2

LOCATOR CODE: - SPLICE G					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	14	GND	TO	CJ-1202 3
-	WHT	16	GND	TO	CP-1200 12
-	WHT	16	GND	TO	CJ-300 A
-	WHT	16	GND	TO	SPL B -
-	WHT	16	GND	TO	SPL E -
-	WHT	16	GND	TO	SPL R -
-	WHT	16	GND	TO	SPL W -
-	WHT	18	GND	TO	J1 1
-	WHT	18	GND	TO	J10 1
-	WHT	18	GND	TO	R1 85
-	BLK	22	GND	TO	CJ-400 -

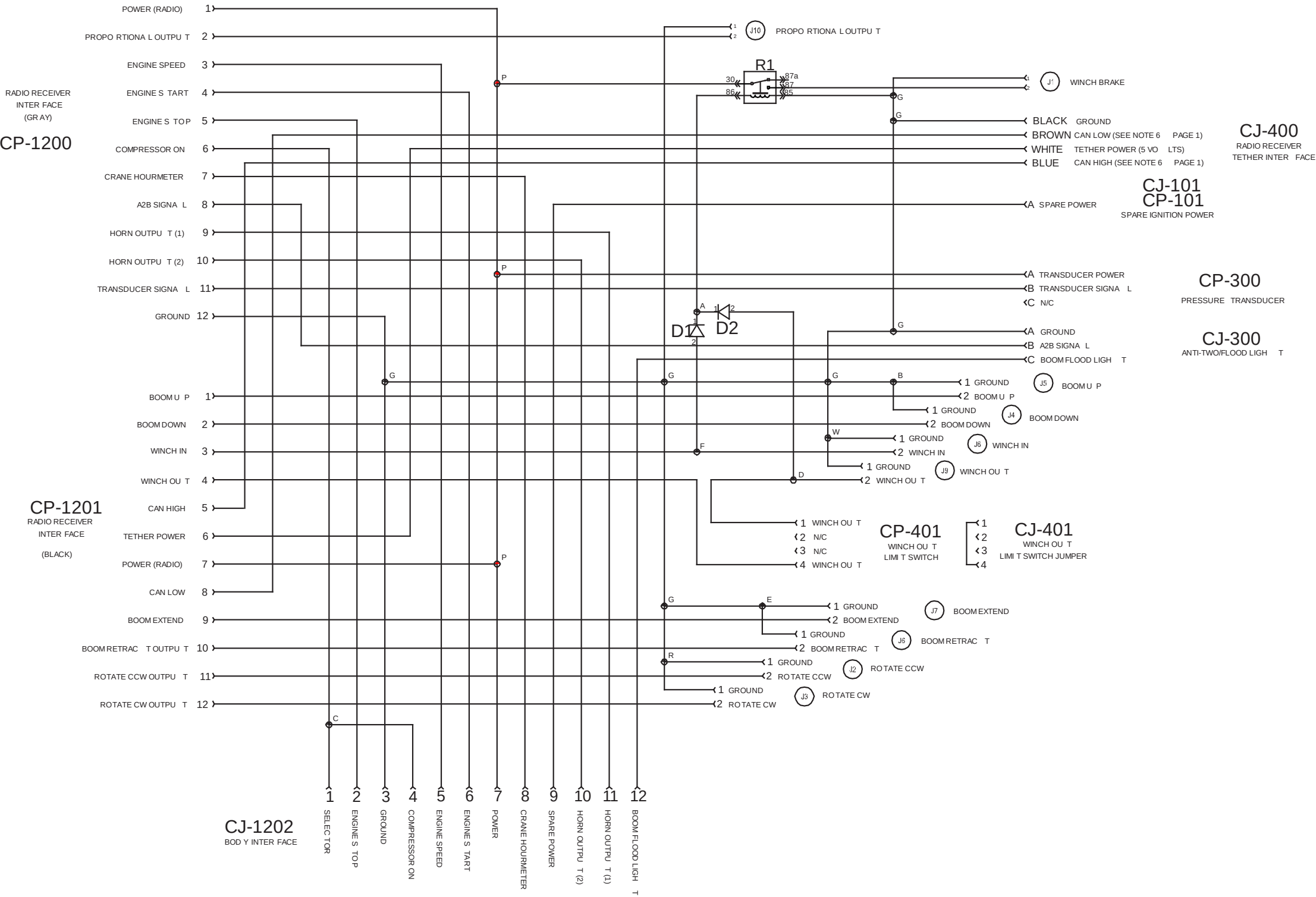
LOCATOR CODE: - SPLICE P					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	14	PWR	TO	CJ-1202 7
-	WHT	16	PWR	TO	CP-1200 1
-	WHT	16	PWR	TO	CP-1201 7
-	WHT	16	TRANS PWR	TO	CP-300 A
-	WHT	18	PWR	TO	R1 30

LOCATOR CODE: - SPLICE R					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	18	GND	TO	J2 1
-	WHT	18	GND	TO	J3 1
-	WHT	16	GND	TO	SPL G -

LOCATOR CODE: - SPLICE W					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
-	WHT	18	GND	TO	J8 1
-	WHT	18	GND	TO	J9 1
-	WHT	16	GND	TO	SPL G -

LOCATOR CODE: R1 RELAY SOCKET: PACKARD 12065685, 12052834					
TERM: 12066614/12033997 RELAY: 87411 (SEALB)					
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC CAVITY
30	WHT	18	PWR	TO	SPL P -
87	WHT	18	WINCH BRK	TO	J1 2
87A	-	-	-	TO	- -
86	WHT	18	WINCH BRK	TO	SPL A -
85	WHT	18	GND	TO	SPL G -

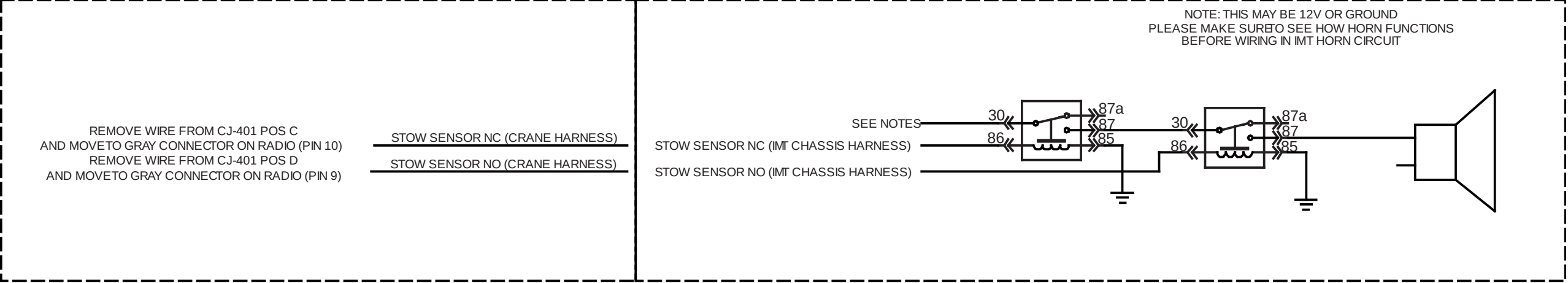
Radio Remote Harness-Single Proportional (77441537)



Horn Circuit (99905614)

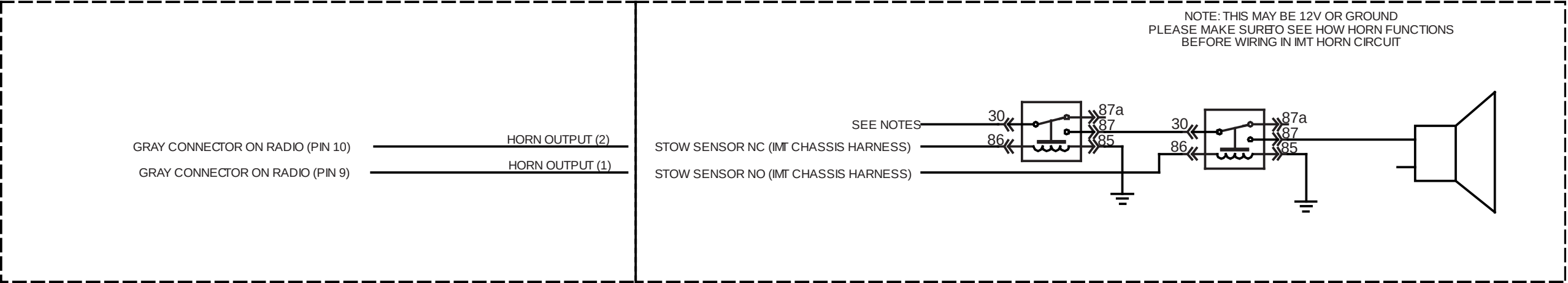
CRANE HARNESS 77441481 REV A

CHASSIS HARNESS - DOM 1-2 (77441444) DOM 3-4 (77441446)

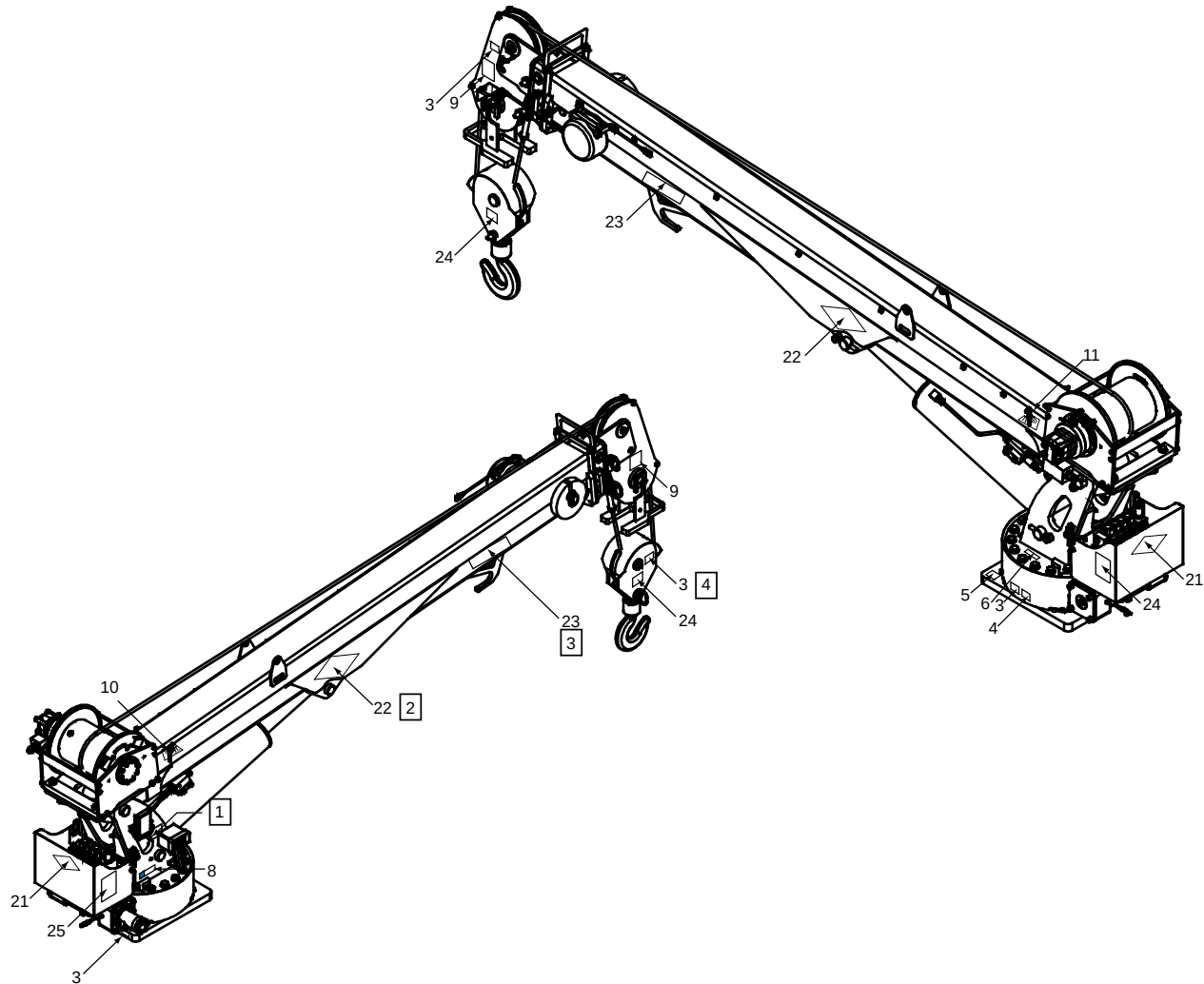


CRANE HARNESS 77441481 REV B

CHASSIS HARNESS - DOM 1-2 (77441444) DOM 3-4 (77441446)



Decal Placement, 12000 25' Crane



NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 SERIAL NUMBER PLACARD. MOUNT STREETSIDE.
- 2 PLACE BOTTOM POINT OF DIAMOND ABOVE END OF CYLINDER PIN.
- 3 CENTER ABOVE HOOK WELDMENT.
- 4 EITHER SIDE.

DECAL PLACEMENT (IF NOT SHOWN ON CRANE)

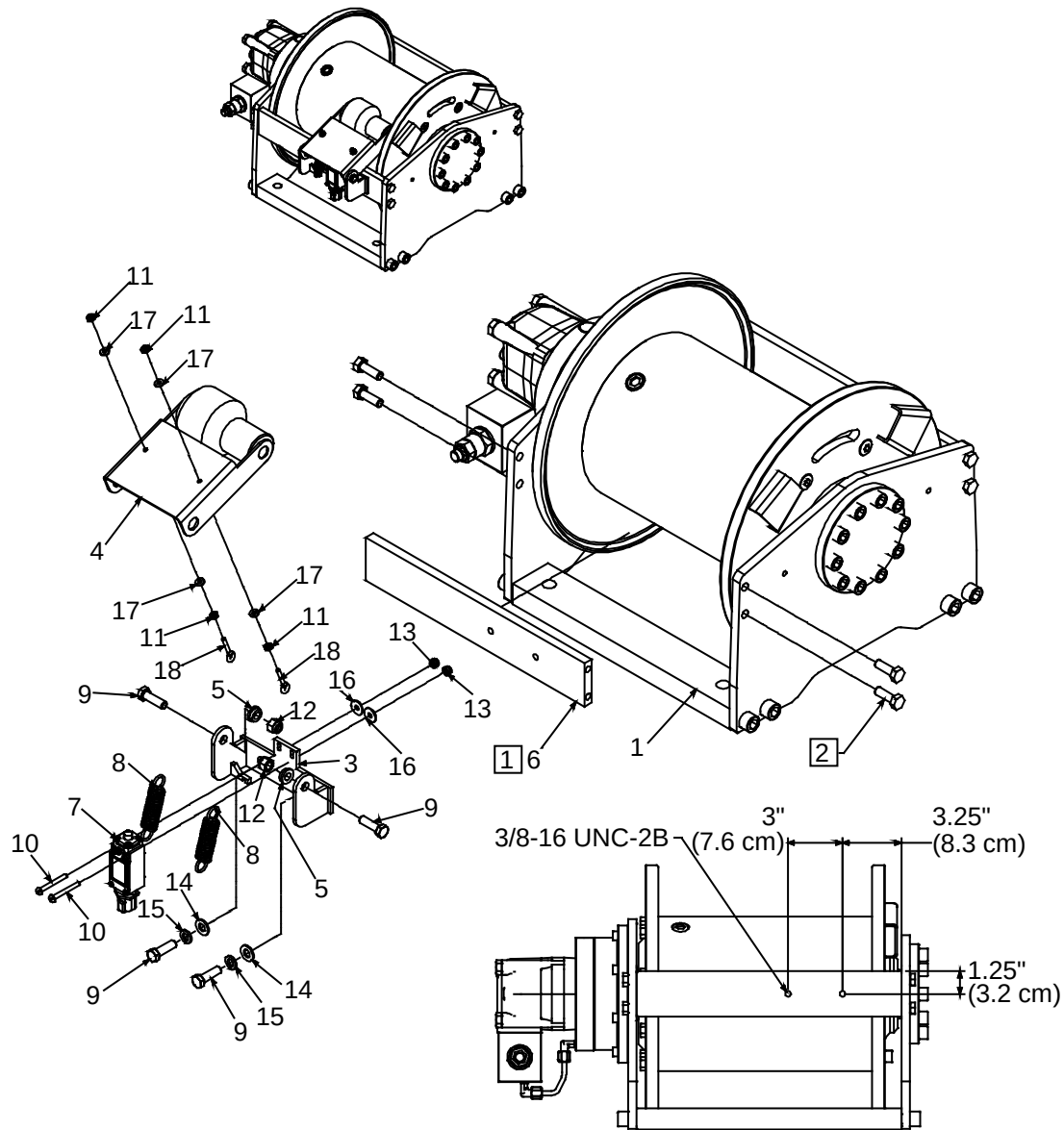
ITEM #	PLACEMENT
12,17,19,20, 25	AT OR NEAR REMOTE HANDLE STORAGE POINT
13	2 ON REAR STABILIZERS, 2 ON SIDEPACK FRONT WALLS
15	AT OR NEAR DRIVELINE
14,16	ON ALL FOUR SIDES OF CARRIER VEHICLE
18	ON TOP OF HYDRAULIC RESERVOIR

DECAL PLACEMENT, 12000 25' CRANES (REF 99905088)

ITEM	PART #	DESCRIPTION	KIT #	QTY IN KIT	QTY ON CRANE
1.	95724111	DECAL KIT - TELE COMMON SIII (7500-14000)			1
2.	95719348	DECAL KIT - BODY COMMON			1
3.	70391612	DECAL-GREASE WEEKLY (LEFT)	1	3	3
4.	70391613	DECAL-GREASE WEEKLY (RIGHT)	1	2	2
5.	70392524	DECAL-ROTATE CRANE WHILE GREAS	1	1	1
6.	70392399	DECAL-LUBRICATE WORM	1	1	1
8.	70395324	DECAL-ASME/ANSI B30.5-TELESCOP	1	1	1
9.	70395670	DECAL-CAUTION DOWN HAUL WT	1	2	2
10.	71399136	DECAL-ANGLE INDICATOR RH	1	1	1
11.	71399137	DECAL-ANGLE INDICATOR LH	1	1	1
12.	70392213	DECAL-CAUTION DONT WASH/WAX	1	1	1
13.	70392864	DECAL-WARNING STAB STAND CLEAR	2	4	4
14.	70392868	DECAL-WARNING 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)	1	1	1
22.	70399140	DECAL-DIAMOND IMT 6.75X13.50 (REFL)	1	2	2
23.	70399051	DECAL-ID 12000			2REF
24.	71394082	DECAL-LOAD BLOCK RATING 7.0TON			2REF
25.	70399110	DECAL-CAP CHART 12000-25'			3REF
REV C 20140416					

Option-Winch Roller (99905056)

Kit 51723638

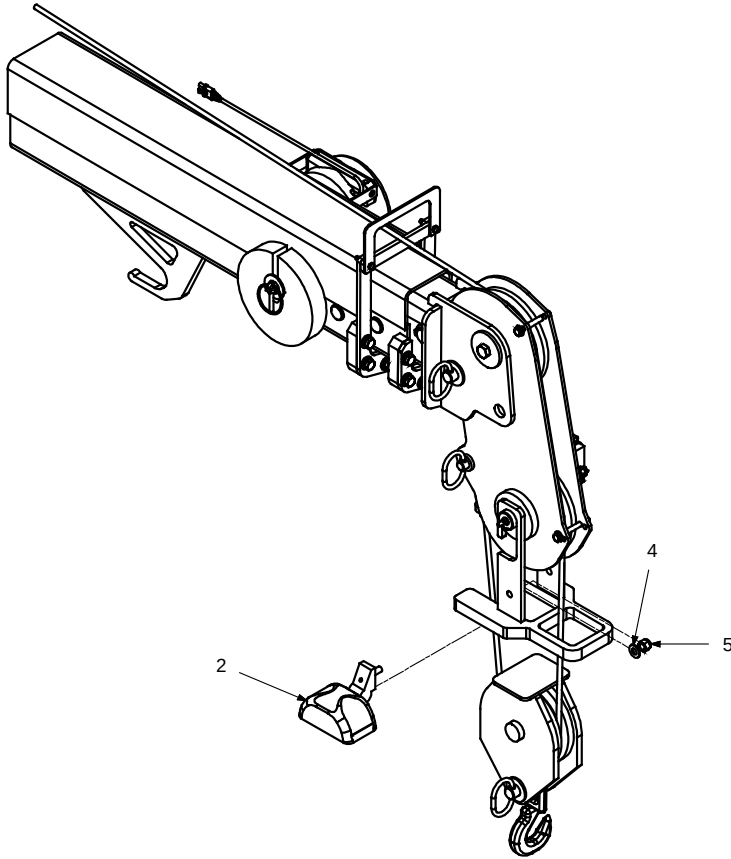


NOTES (SEE REFERENCE NUMBER IN BOX):

- 1 REPLACE EXISTING BAR ON WINCH WITH 60136607.
- 2 USE EXISTING BOLTS AS SHOWN.

99905056 PARTS LIST					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QTY
1.	70570836	WINCH-PLANETARY 7700 LB LINE PULL			REF
2.	91725602	HARDWARE KIT-WINCH ROLLER			1
3.	52723094	MOUNTING BRACKET- WINCH SWITCH			1
4.	52723095	ROLLER ASSEMBLY- WINCH SWITCH			1
5.	60030439	SLEEVE-TYPE C	0.38X 0.62X.25		2
6.	60136608	WINCH PLATE-ROLLER BRACKET			1
7.	77041863	SWITCH-LIMIT			1
8.	71413185	SPRING	0.105WIRE 0.75 OD 2.875 LG	#2	2
9.	72060047	CAP SCREW	.38-16X 1.25 HH G R5 Z	#2	4
10.	72060641	MACHINE SCREW	#10-24X 1.75 ROUND HEAD	#2	2
11.	72062093	NUT	#8-32 HEX ZINC	#2	4
12.	72062103	NUT	.38-16 HEX NYLOCK	#2	2
13.	72062106	NUT	#10-24 HEX NYLOCK	#2	2
14.	72063003	WASHER	.38 FLAT	#2	2
15.	72063051	WASHER	.38 LOCK	#2	2
16.	72063268	WASHER	#10 W FLAT ANSI B27.2Z	#2	2
17.	72063271	WASHER	# 8 W FLAT ANSI B27.2Z	#2	4
18.	72601938	BOLT-EYE	# 8-32X 1.125	#2	2
REV A 20110513					

Option - Boom Tip Light Kit (99905289)

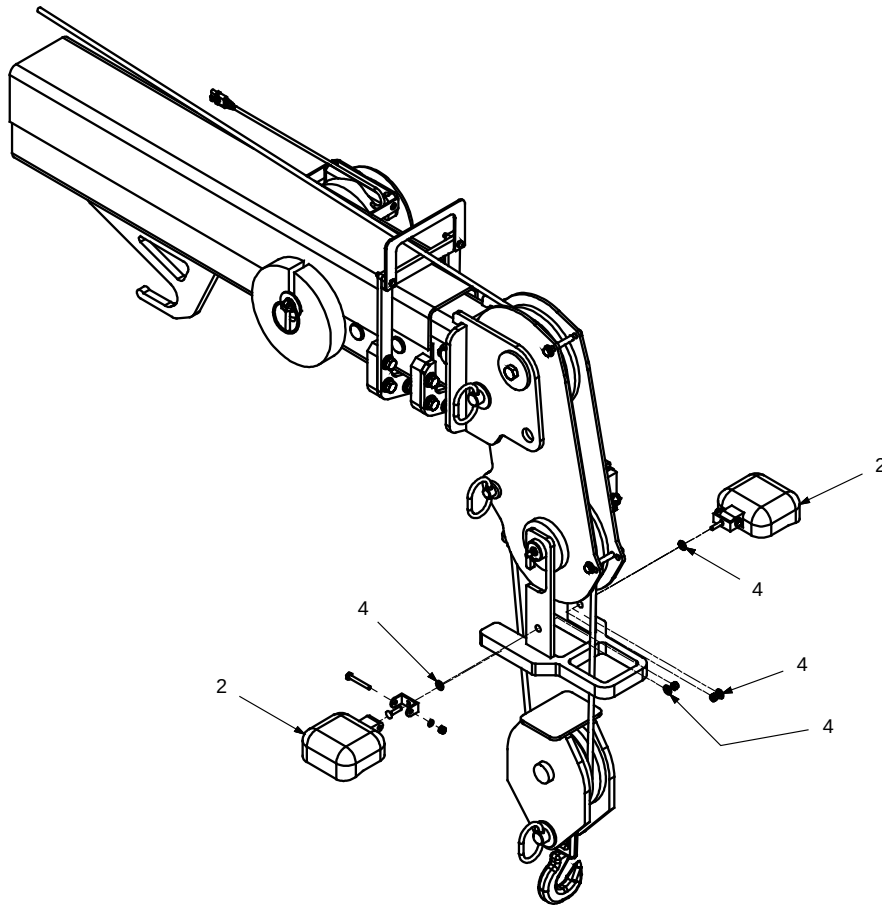


NOTES:

- 1 LIGHT CAN BE PLACED ON EITHER SIDE.
- 2 HARNESS CONNECTS TO CORD REEL AND ANTI-TWO-BLOCK SWITCH.

SINGLE INCANDESCENT LIGHT KIT (12V & 24V) (DWG 99905289)

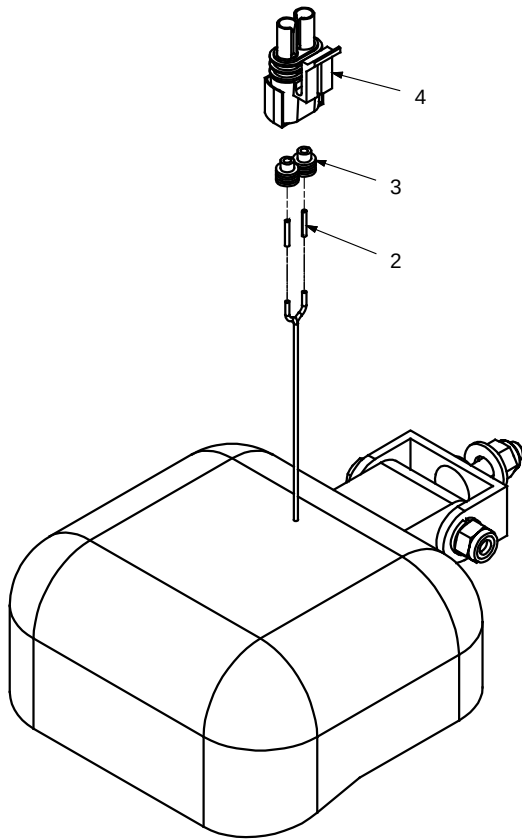
				12V KIT (51723830)		24V KIT (51724606)	
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY	KIT #	QUANTITY
1.	51723830	ELECTRICAL KIT-BOOM SINGLE FLOOD LIGHT (12V)			1		
1A.	51724606	ELECTRICAL KIT-BOOM SINGLE FLOOD LIGHT (24V)					1
2.	77040424	FLOODLIGHT-COMPOSITE WORK LAMP TOP MTG (12V)		#1	1		1
2A.	77441279	FLOODLIGHT-COMPOSITE WORK LAMP TOP MTG (24V)				#1A	1
3.	77441470	HARNESS-BOOM TIP FLOOD LIGHT JUMPER		#1	1	#1A	1
4.	72063005	WASHER	.50 FLAT	#2	1	#2A	1
5.	72062080	NUT	.50-13 HEX NYLOCK	#2	1	#2A	1
REV C 20140203							

**NOTES (SEE REFERENCE NUMBER IN BOX:**

1 LIGHT CAN BE PLACED ON EITHER SIDE.

2 HARNESS CONNECTS TO CORD REEL AND ANTI-TWO-BLOCK SWITCH.

DUAL LED LIGHT KIT (KIT 51724116 / DWG 99905289)					
ITEM	PART #	DESCRIPTION	DETAILS	KIT #	QUANTITY
1.	51724116	ELECTRICAL KIT-BOOM DUAL LED FLOOD LIGHT			1
2.	77040581	FLOODLIGHT-LED	12-36 VDC	#1	2
3.	77441473	HARNESS-BOOM TIP LED FLOOD LIGHT JUMPER		#1	1
4.	72063002	WASHER	.31 FLAT	#1	4
REV C 20140203					



ELECTRICAL INSTALLATION, LIGHT KITS (99905289)				
ITEM	PART #	DESCRIPTION	DETAILS	QUANTITY
1.	51723830	ELECTRICAL KIT-BOOM SINGLE FLOOD LIGHT		1
1.	51724116	ELECTRICAL KIT-BOOM DUAL LED FLOOD LIGHT		1
1.	51724606	ELECTRICAL KIT-BOOM SINGLE FLOOD LIGHT 24V		1
2.	77045888	TERMINAL	PKRD WP 14-16GA FEM	2
3.	77044927	CABLE SEAL	14GA GRAY	2
4.	77044574	CONNECTOR	PKRD WP 2CAV FEM TOWER	1
REV C 20140203				

CHAPTER 5

General Reference

In This Chapter

Inspection Checklist	121
Deficiency / Recommendation / Corrective Action Report.....	126
Thread Torque Charts	128

Inspection Checklist

NOTICE:

The user of this form is responsible for determining that these inspections satisfy all applicable regulatory requirements.

OWNER/COMPANY:	TYPE OF INSPECTION (circle one):			
CONTACT PERSON:	DAILY	MONTHLY	QUARTERLY	ANNUAL
CRANE MAKE & MODEL:	DATE INSPECTED:			
CRANE SERIAL NUMBER:	HOURMETER READING (if applicable):			
UNIT I.D. NUMBER:	INSPECTED BY (print):			
LOCATION OF UNIT:	SIGNATURE OF INSPECTOR:			

TYPE OF INSPECTION

NOTES:

Daily and monthly inspections are to be performed by a "competent person", who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

Quarterly and annual inspections are to be performed by a "qualified person" who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, successfully demonstrated the ability to solve/resolve problems relating to the subject matter, the work, or the project.

One hour of normal crane operation assumes 20 complete cycles per hour. If operation exceeds 20 cycles per hour, inspection frequency should be increased accordingly.

Consult Operator / Service Manual for additional inspection items, service bulletins and other information.

Before inspecting and operating crane, crane must be set up away from power lines and leveled with stabilizers fully extended.

DAILY (D): Before each shift of operation, those items designated with a (D) must be inspected.

MONTHLY (M): Monthly inspections or 100 hours of normal operation (whichever comes first) includes all daily inspections plus items designated with an (M). This inspection must be recorded and retained for a minimum of 3 months.

QUARTERLY (Q): Every three to four months or 300 hours of normal operation (whichever comes first) includes all daily and monthly inspection items plus items designated with a (Q). This inspection must be documented, maintained, and retained for a minimum of 12 months, by the employer that conducts the inspection.

ANNUAL (A): Each year or 1200 hours of normal operation (whichever comes first) includes all items on this form which encompasses daily, monthly and quarterly inspections plus those items designated by (A). This inspection must be documented, maintained, and retained for a minimum of 12 months, by the employer that conducts the inspection.

INSPECTION CHECKLIST STATUS KEY:

S = Satisfactory

R = Recommendation

(Should be considered for corrective action)

NA = Not Applicable

X = Deficient

(NOTE: If a deficiency is found, an immediate determination must be made as to whether the deficiency constitutes a safety hazard and must be corrected prior to operation.)

FREQUENCY	ITEM	KEY	INSPECTION DESCRIPTION	STATUS
				(S,R,X,NA)
D	1	Labels	All load charts, safety & warning labels, and control labels are present and legible.	
D	2	Crane	Check all safety devices for proper operation.	
D	3	Controls	Control mechanisms for proper operation of all functions, leaks and cracks.	
D	4	Station	Control and operator's station for dirt, contamination by lubricants, and foreign material.	
D	5	Hydraulic System	Hydraulic system (hoses, tubes, fittings) for leakage and proper oil level.	
D	6	Hook	Presence and proper operation of hook safety latches.	

FREQUENCY	ITEM	KEY	INSPECTION DESCRIPTION	STATUS (S,R,X,NA)
D	7	Wire Rope	Inspect for apparent deficiencies per applicable requirements and manufacturer's specifications.	
D	8	Pins	Proper engagement of all connecting pins and pin retaining devices.	
D	9	General	Overall observation of crane for damaged or missing parts, cracked welds, and presence of safety covers.	
D	10	Operation	During operation, observe crane for abnormal performance, unusual wear (loose pins, wire rope damage, etc.). If observed, discontinue use and determine cause and severity of hazard.	
D	11	Remote Ctrl	Operate remote control devices to check for proper operation.	
D	12	Electrical	Operate all lights, alarms, etc. to check for proper operation.	
D	13	Anti-Two-Block or Two-Block Damage Prevention	Operate anti two-block or two-block damage prevention device to check for proper operation.	
D	14	Tires	Check tires (when in use) for proper inflation and condition.	
D	15	Ground Conditions	Check ground conditions around the equipment for proper support, watching for ground settling under and around stabilizers and supporting foundations, ground water accumulation, or similar conditions.	
D	16	Level	Check the equipment for level position within the tolerances specified by the equipment manufacturer's recommendations, both before each shift and after each move and setup.	
D	17	Operator cab windows	Check windows for cracks, breaks, or other deficiencies which would hamper the operator's view.	
D	18	Rails, rail stops, rail clamps and supporting surfaces	Check rails, rail stops, rail clamps and supporting surfaces when the equipment has rail traveling.	
D	19	Safety devices	Check safety devices and operational aids for proper operation.	
D	20	Electrical	Check electrical apparatus for malfunctioning, signs of apparent excessive deterioration, dirt or moisture accumulation.	
D	21		Other	
D	22		Other	
M	23	Daily	All daily inspection items.	
M	24	Cylinders	Visual inspection of cylinders for leakage at rod, fittings, and welds. Damage to rod and case.	
M	25	Valves	Holding valves for proper operation.	
M	26	Valves	Control valves for leaks at fittings and between stations.	
M	27	Valves	Control valve linkages for wear, smoothness of operation, and tightness of fasteners. Relief valve for proper pressure settings.	
M	28	General	Bent, broken, or significantly rusted/corroded parts.	
M	29	Electrical	Electrical apparatus for malfunctioning, signs of apparent excessive deterioration, dirt or moisture accumulation. Electrical systems for presence of dirt, moisture, and frayed wires.	
M	30	Structure	All structural members for damage.	
M	31	Welds	All welds for breaks and cracks.	
M	32	Pins	All pins for proper installation and condition.	

FREQUENCY	ITEM	KEY	INSPECTION DESCRIPTION	STATUS (S,R,X,NA)
M	33	Hardware	All bolts, fasteners and retaining rings for tightness, wear and corrosion.	
M	34	Wear Pads	Presence of wear pads.	
M	35	Pump & Motor	Hydraulic pumps and motors for leakage at fittings, seals, and between sections. Check tightness of mounting bolts.	
M	36	PTO	Transmission/PTO for leakage, abnormal vibration & noise, alignment, and mounting bolt torque.	
M	37	Hyd Fluid	Quality of hydraulic fluid and presence of water.	
M	38	Hyd Lines	Hoses & tubes for leakage, abrasion damage, blistering, cracking, deterioration, fitting leakage, and secured properly.	
M	39	Hook	Load hook for abnormal throat distance, twist, wear, and cracks.	
M	40	Wire Rope	Condition of load line.	
M	41	Manual	Presence of operator's manual with unit.	
M	42		Other	
M	43		Other	
Q	44	Daily	All daily inspection items.	
Q	45	Monthly	All monthly inspection items.	
Q	46	Rotation Sys	Rotation bearing for proper torque of all mounting bolts.	
Q	47	Hardware	Base mounting bolts for proper torque.	
Q	48	Structure	All structural members for deformation, cracks and corrosion.	
	49		• Base	
	50		• Stabilizer beams and legs	
	51		• Mast	
	52		• Inner Boom	
	53		• Outer Boom	
	54		• Extension(s)	
	55		• Jib boom	
	56		• Jib extension(s)	
	57		• Other	
Q	58	Hardware	Pins, bearing, shafts, gears, rollers, and locking devices for wear, cracks, corrosion and distortion.	
	59		• Rotation bearing(s)	
	60		• Inner boom pivot pin(s) and retainer(s)	
	61		• Outer boom pivot pin(s) and retainer(s)	
	62		• Inner boom cylinder pin(s) and retainer(s)	
	63		• Outer boom cylinder pin(s) and retainer(s)	
	64		• Extension cylinder pin(s) and retainer(s)	
	65		• Jib boom pin(s) and retainer(s)	
	66		• Jib cylinder pin(s) and retainer(s)	
	67		• Jib extension cylinder pin(s) and retainer(s)	
	68		• Boom tip attachment	
	69		• Other	
Q	70	Hyd Lines	Hoses, fittings and tubing for proper routing, leakage, blistering, deformation and excessive abrasion.	
	71		• Pressure line(s) from pump to control valve	
	72		• Return line(s) from control valve to reservoir	
	73		• Suction line(s) from reservoir to pump	
	74		• Pressure line(s) from control valve to each function	
	75		• Load holding valve pipe(s) and hose(s)	
	76		• Other	

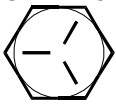
FREQUENCY	ITEM	KEY	INSPECTION DESCRIPTION	STATUS (S,R,X,NA)
Q	77	Pumps & Motors	Pumps and Motors for loose bolts/fasteners, leaks, noise, vibration, loss of performance, heating & excess pressure.	
	78		• Winch motor(s)	
	79		• Rotation motor(s)	
	80		• Other	
Q	81	Valves	Hydraulic valves for cracks, spool return to neutral, sticking spools, proper relief valve setting, relief valve failure.	
	82		• Main control valve	
	83		• Load holding valve(s)	
	84		• Stabilizer or auxiliary control valve(s)	
	85		• Other	
	86		• Other	
Q	87	Cylinders	Hydraulic cylinders for drifting, rod seal leakage and leakage at welds. Rods for nicks, scores and dents. Case for damage. Case and rod ends for damage and abnormal wear.	
	88		• Stabilizer cylinder(s)	
	89		• Inner boom cylinder(s)	
	90		• Outer boom cylinder(s)	
	91		• Extension cylinder(s)	
	92		• Rotation cylinder(s)	
	93		• Jib lift cylinder(s)	
	94		• Jib extension cylinder(s)	
	95		• Other	
Q	96	Winch	Winch, sheaves and drums for damage, abnormal wear, abrasions and other irregularities.	
Q	97	Hyd Filters	Hydraulic filters for replacement per maintenance schedule.	
A	98	Daily	All daily inspection items.	
A	99	Monthly	All monthly inspection items.	
A	100	Quarterly	All quarterly inspection items.	
A	101	Hyd Sys	Hydraulic fluid change per maintenance schedule.	
A	102	Controls	Control valve calibration for correct pressure & relief valve settings.	
A	103	Valves	Safety valve calibration for correct pressure & relief valve settings.	
A	104	Valves	Valves for failure to maintain correct settings.	
A	105	Rotation Sys	Rotation drive system for proper backlash clearance & abnormal wear, deformation and cracks.	
A	106	Lubrication	Gear oil change in rotation drive system per maintenance schedule.	
A	107	Hardware	Check tightness of all fasteners and bolts, using torque specifications on component drawings or torque chart.	
A	108	Wear Pads	Wear pads for excessive wear.	
A	109	Loadline	Loadline for proper attachment to drum.	

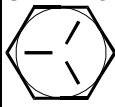
DATE:	OWNER:	UNIT I.D. NUMBER:
GUIDELINES a A deficiency (X) may constitute a hazard. Deficiency must be corrected and/or faulty parts replaced before resuming operation. b Recommendations (R) should be considered for corrective actions. Corrective action for a particular recommendation depends on the facts in each situation. c Corrective actions (CA), repairs, adjustments, parts replacement, etc. are to be performed by a qualified person in accordance with all manufacturer's recommendations, specifications and requirements. NOTE: Deficiencies (X) listed must be followed by the corresponding corrective action taken (CA). X = DEFICIENCY R = RECOMMENDATION CA = CORRECTIVE ACTION TAKEN		

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Thread Torque Charts

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

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

NOTES

- 1 Tightening torques provided are midrange.
- 2 Consult bolt manufacturer's particular specifications, when provided.
- 3 Use flat washers of equal strength.
- 4 All torque measurements are given in foot-pounds.
- 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 disulphide, colloidal copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.

WARNING

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

FINE THREAD TORQUE CHART (METRIC)					
TIGHTENING TORQUE					
SIZE (DIA- TPI)	BOLT DIA. (INCHES)	 SAE J429 GRADE 5		 SAE J429 GRADE 8	
		PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)
5/16-24	0.3125	3	2	4	3
3/8-24	0.375	5	4	7	5
7/16-20	0.4375	8	6	11	8
1/2-20	0.5	12	9	17	12
9/16-18	0.5625	17	12	24	18
5/8-18	0.625	24	18	33	25
3/4-16	0.75	41	31	58	44
7/8-11	0.875	62	45	93	69
1-12	1	89	67	138	103
1 1/8-12	1.125	123	93	200	150
1 1/4-12	1.25	171	129	278	209
1 3/8-12	1.375	232	174	375	281
1 1/2-12	1.5	304	228	492	369

COARSE THREAD TORQUE CHART (METRIC)					
TIGHTENING TORQUE					
SIZE (DIA- TPI)	BOLT DIA (INCHES)	 SAE J429 GRADE 5		 SAE J429 GRADE 8	
		PLAIN (KG-M)	PLATED (KG-M)	PLAIN (KG-M)	PLATED (KG-M)
5/16-18	0.3125	2	2	3	2
3/8-16	0.375	4	3	6	5
7/16-14	0.4375	7	5	10	7
1/2-13	0.5	10	8	15	11
9/16-12	0.5625	15	11	21	16
5/8-11	0.625	21	16	30	22
3/4-10	0.75	37	28	52	39
7/8-9	0.875	55	41	84	63
1-8	1	82	62	126	94
1 1/8-7	1.125	110	82	178	133
1 1/4-7	1.25	155	116	251	188
1 3/8-6	1.375	203	152	329	246
1 1/2-6	1.5	270	210	438	328

NOTES

- 1 Tightening torques provided are midrange.
- 2 Consult bolt manufacturer's particular specifications, when provided.
- 3 Use flat washers of equal strength.
- 4 All torque measurements are given in kilogram-meters.
- 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 disulphide, colloidal copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.

 WARNING

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