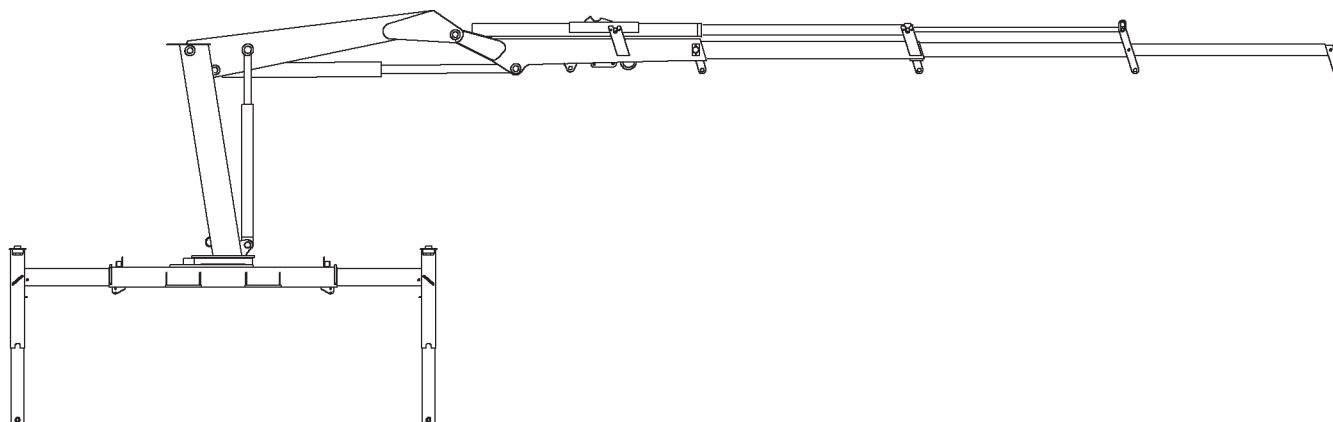




5800 Series Crane & Model 880 (Metric Version)

Volume 2 - PARTS AND SPECIFICATIONS

Section 1	SPECIFICATIONS-5800 SERIES
Section 1A.	SPECIFICATIONS-880 CRANE
Section 2	CRANE REFERENCE
Section 3	REPLACEMENT PARTS
Section 4	GENERAL REFERENCE



IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

MANUAL PART NUMBER 99900937

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

REVISIONS LIST

DATE	LOCATION	DESCRIPTION OF CHANGE
20001102	2-05	REV SPL
	3-13	ECN8615-41710920-CHG INNER CYL PN
	3-14	3B270000-REPLACE INNER CYL ASM (CBAL VALVE)
	3-27	91710962-CHG BOM & DWG (CBAL VALVE)
20010109	3-27	91710962-ADD HOSE 29.51395954, DELETE 1 4.51393922, CHG DWG
20010226	2-5&6	UPDATE SPARE PARTS LIST
20010403	3-45	51707805 ADD MALE CONTROL ROD
20010417	3-44	ITEM #5 77041345 WAS 77041014
20010420	2-6	REVISED ASSMEBLY DESIGNATION NUMBER. 90716707 WAS 90713554
	3-2	REVISED SECTION 3 INDEX 90716707 WAS 90713554
	3-33	REVISED DRAWING AND BOM - WAS 90713554, NOW 90716707
	3-34	ADDED SECOND PAGE TO DRAWING 90716707
20010508	3-8, 3-9	ADDED DRAWING 41710937
20010907	3-29	ECN 8758 ADDED ITEM 30 TO HYDRAULIC KIT 91710962
20011024	3-56-60	ECN 8783 NEW RADIO REMOTE RETROFIT KIT
20011127	3-5,8,10	ADDED MOBILTAC NOTE
	3-44,45,54	ECN 8794 - NEW HYD OVERLOAD VALVE BANK
	3-47	ECN 8834 - NEW LIGHT KIT
20020115	3-54	ITEM 11 CHANGE TO 72532141
20020318	3-61	ECN 8886 - ADDED 31717514
20020801	3-45,47,61	ECN 8971, 8972 - CHANGES TO CAPACITY ALERT/SHUTDOWN KITS & LIGHT KIT
20021030	3-59,60	ECN 9036 - BATTERY CHARGER CHANGES IN RADIO REMOTE 73733600
20031103	3-56	ADDED KIT NUMBER TO DRAWING 99903330
20040527	3-18	ECN 9468 - CHANGE TO ROD ASM ON 3C180920
20051107	3-17-18A	ECN 9832 - CYL 71411815 REPL 3C180920
20060720	3-17,18	ECN 9832-2 - CYL 3C180920 REPL 71411815
20061020	1-1, 3-3	NEW OWNERSHIP STATEMENT; UPDATED SERIAL TAG LOCATION INFO.
	3-19,22,23	ECN 10300-1, UPDATED HOOK KIT IN 41710943, 41710940, 41710939
20081104	3-58	ECN 10903 - UPDATE TO 51717059
	3-4,9	ECN 10767 - TURNTABLE GEAR BEARING TEETH CHANGE
20100330	3-58	ECN11213 - RADIO REMOTE JIC BOX ASM CHANGED (DRAWING 51717059)
20111220	SECTIONS 1-4	ECN 11628 - UPDATED STABILIZER WORDING, ADDED 72042097 LEVEL TO FRONT & SIDE OF CRANE, ADDED 70399271 DEPLOY DECALS TO STABILIZERS
	3-46	ECN 11606 - ADDED 51724350 TWO-BLOCK PREVENTION SYSTEM
	3-29,44	ECN 11621 - UPDATED HYD OVERLOAD KITS
20120419	3-18,23,36	ECN 11616 - UPDATED C YLINDER DRAWINGS, ADDED REMOTE CALIBRATION PROCEDURE
20120830	3-12,14	ECN 11736 - UPDATED 41710914 AND 41710939 FOR TWO-BLOCK PREV SYSTEM

INTRODUCTION

This volume deals with information applicable to your particular crane. For operating, maintenance and repair instructions, refer to Volume 1, OPERATION, MAINTENANCE AND REPAIR.

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

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

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

Warranty of this unit will be void on any part of the unit subjected to misuse due to overloading, abuse, lack of maintenance and unauthorized modifications. No warranty - verbal, written or implied - other than the official, published IMT new machinery and equipment warranty will be valid with this unit.

In addition, it is also the user's responsibility to be aware of existing Federal, State and Local codes and regulations governing the safe use and maintenance of this unit. Listed below is a publication that the user should thoroughly read and understand.

ANSI/ASME B30.22
ARTICULATING BOOM CRANES
The American Society of Mechanical Engineers
United Engineering Center
345 East 47th Street
New York, NY 10017

Three means are used throughout this manual to gain the attention of personnel. They are NOTE's, CAUTION's and WARNING's and 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.

Treat this equipment with respect and service it regularly. These two things can add up to a safer working environment.

**Read and familiarize yourself with the
IMT OPERATOR'S CRANE SAFETY MANUAL
before operating or performing any maintenance
on your crane.**

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NOTES

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SECTION 1. 5800 SERIES CRANE SPECIFICATIONS

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NOTES

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5800 SERIES CRANE SPECIFICATIONS

GENERAL SPECIFICATIONS

	1H	2H	2H1M
*CRANE RATING (ANSI B30.22)	58400 ft-lbs	58000 ft-lbs	57200 ft-lbs
*MAXIMUM CRANE RATING	58400 ft-lbs	58000 ft-lbs	57500 ft-lbs
HORIZONTAL REACH from centerline of rotation	20'-1"	26'-4"	32'-2"
HYDRAULIC EXTENSION	70"	70" X 2	70" X 2
MANUAL EXTENSION	None	None	70"
VERTICAL REACH from mounting surface	26'-6"	32'-4"	37'-10"
VERTICAL REACH from ground / 40" frame ht.	29'-10"	35'-8"	41'-2"
CRANE WEIGHT with tubular stabilizers	2900 lbs	3160 lbs	3240 lbs
CRANE WEIGHT with cylindrical stabilizers	2800 LBS	3060 LBS	3140 LBS
CRANE WEIGHT without stabilizers/stationary mount	2370 lbs	2630 lbs	2710 lbs
STABILIZER SPAN	13'-0"	13'-0"	13'-0"
STABILIZER PADS	12" x 12"	12" x 12"	12" x 12"
CRANE STORAGE HEIGHT from mounting surface	7'-0"	7'-0"	7'-0"
CRANE STORAGE HEIGHT from ground / 40" frame ht.	10'-4"	10'-4"	10'-4"
**MOUNTING SPACE REQUIRED	28"	28"	28"
ROTATIONAL TORQUE	8675 ft-lbs	8675 ft-lbs	8675 ft-lbs
OPTIMUM PUMP CAPACITY	9 U.S. GPM	9 U.S. GPM	9 U.S. GPM
SYSTEM OPERATING PRESSURE	2500 PSI	2500 PSI	2500 PSI
OIL RESERVOIR CAPACITY	17 U.S. Gallons	17 U.S. Gallons	17 U.S. Gallons
HOOK APPROACH - HORIZONTAL from centerline of rotation	2'-11"	3'-1"	3'-1"
HOOK APPROACH - VERTICAL from mounting surface	6'-9"	6'-4"	6'-4"

* Maximum Crane Rating (ft-lbs) is defined as that rated load (lbs) which when multiplied by its respective distance (ft) from centerline of rotation gives the greatest ft-lb value.

ANSI B30.22 Crane Rating (ft-lbs) = With all extensions retracted and inner plus outer boom in a horizontal position, rated load (lbs) X respective distance (ft) from centerline of rotation = nominal ft-lb value.

** Allow an additional 5" between the cab and crane base for swing clearance.

PERFORMANCE CHARACTERISTICS

ROTATION:	450°	30 seconds
INNER BOOM ELEVATION:	-49° to +77°	24 seconds
OUTER BOOM ARTICULATION:	139°	21 seconds
TELESCOPIC EXTENSIONS:	70"/70"	26 / 15 seconds
SINGLE STAGE EXTENSION:	70"	15 seconds
VERTICAL STABILIZER STROKE:	25-1/2"	8 seconds

POWER SOURCE

Integral-mounted hydraulic pump and PTO application. Other standard power sources may be utilized - minimum power required is 17 horsepower.

CYLINDER HOLDING VALVES

The holding sides of all standard cylinders are equipped with integral-mounted holding or counter-balance valves to prevent sudden cylinder collapse in case of hose or other hydraulic failure. The stabilizer cylinders have positive, pilot-operated holding valves that open only on command.

The inner cylinders have single pilot-operated counter balance valves while the outer and extension boom cylinders have double counter-balance valves. The counter-balance valve serves several functions. First, it is a holding valve. Secondly, it is so constructed that it will control the lowering function and allow that motion to be feathered while under load. Finally, if a hose breaks, the only oil loss will be that in the hose.

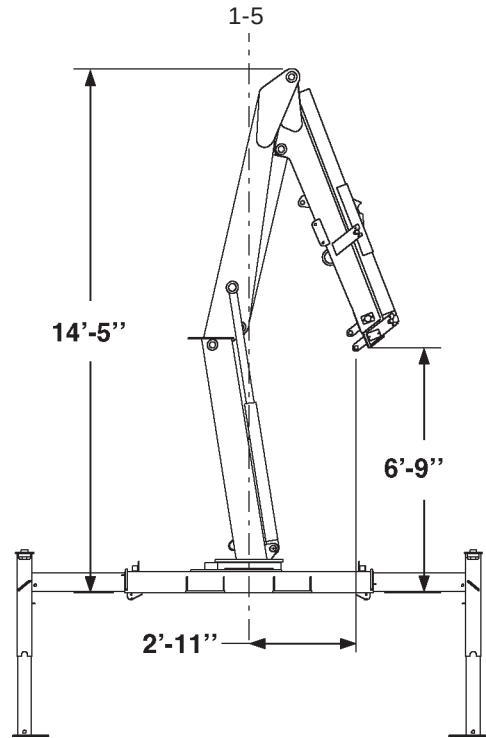
ROTATION SYSTEM

Rotation of the crane is accomplished through a turntable bearing, powered by a high torque hydraulic motor through a ring and pinion type spur gear train. Total gear reduction is 39.61 to 1.

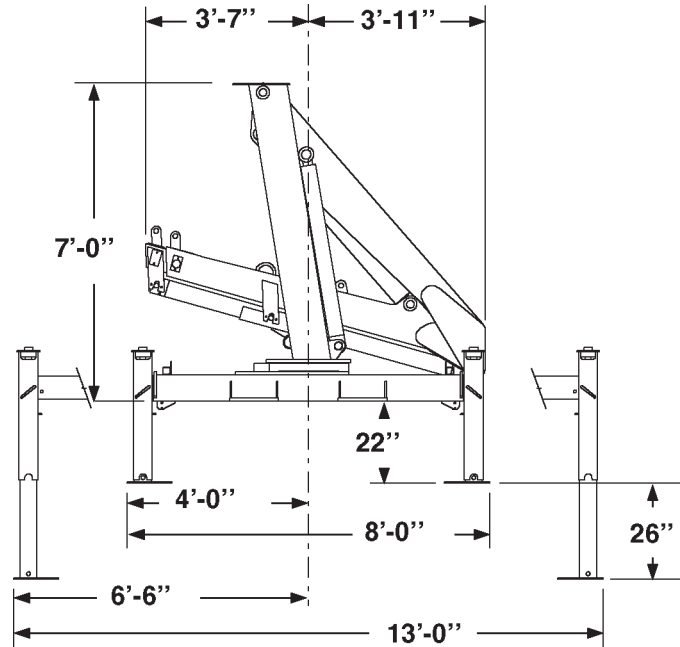
HYDRAULIC SYSTEM

The hydraulic system is an open centered, full pressure system, requiring 9 GPM optimum oil flow, at 2500 PSI. Eight-spool, stack-type control valve, six of which are used for the standard crane and the remaining two are plugged, but easily adapted for additional optional features. Dual operational handles for six functions are located at both sides of crane for convenient operation. System includes hydraulic oil reservoir, suction-line strainer, pump, 8-section control valve, return-line filter and all hoses and fittings.

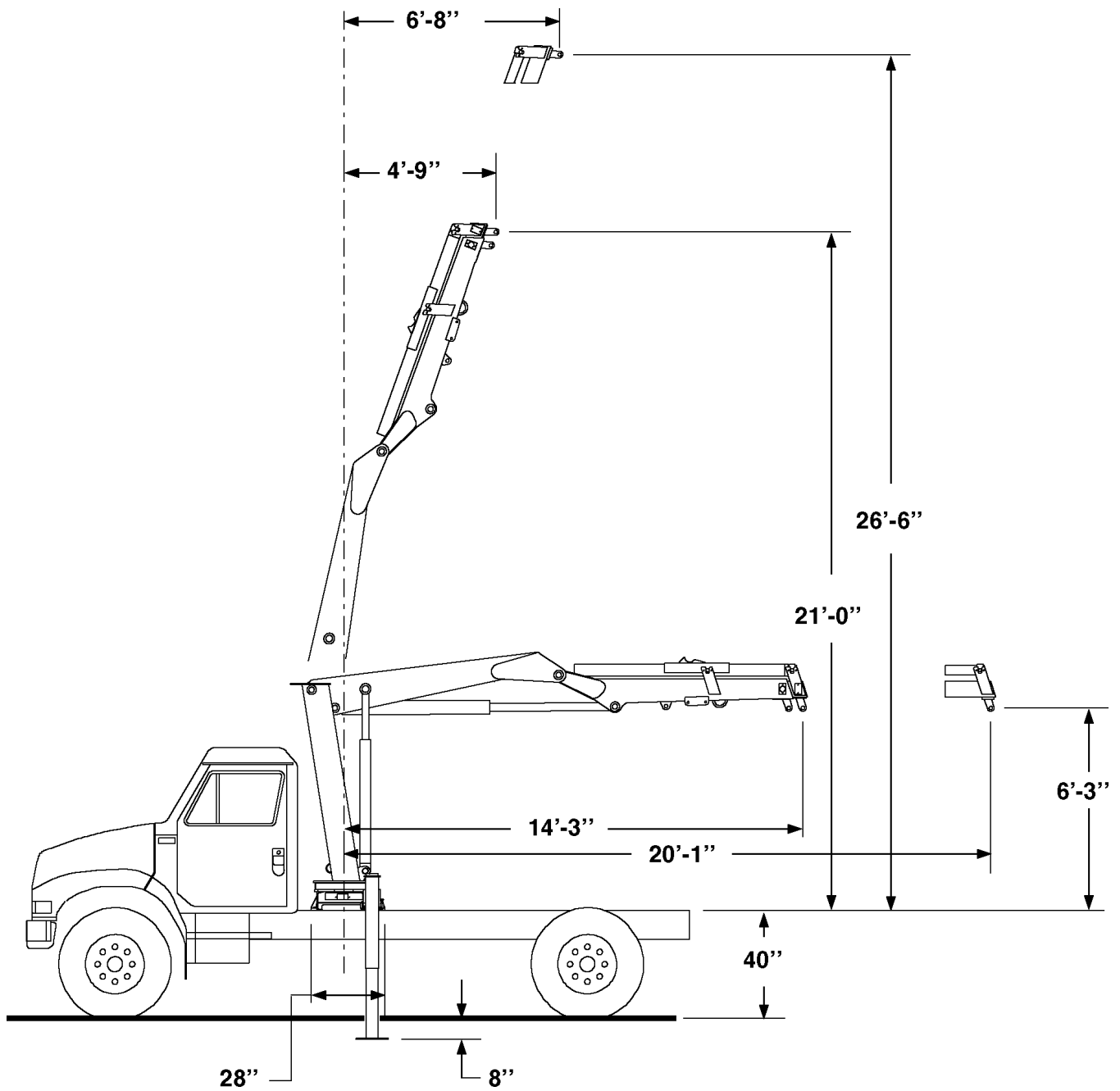
IMT reserves the right to change specifications and design without notice.

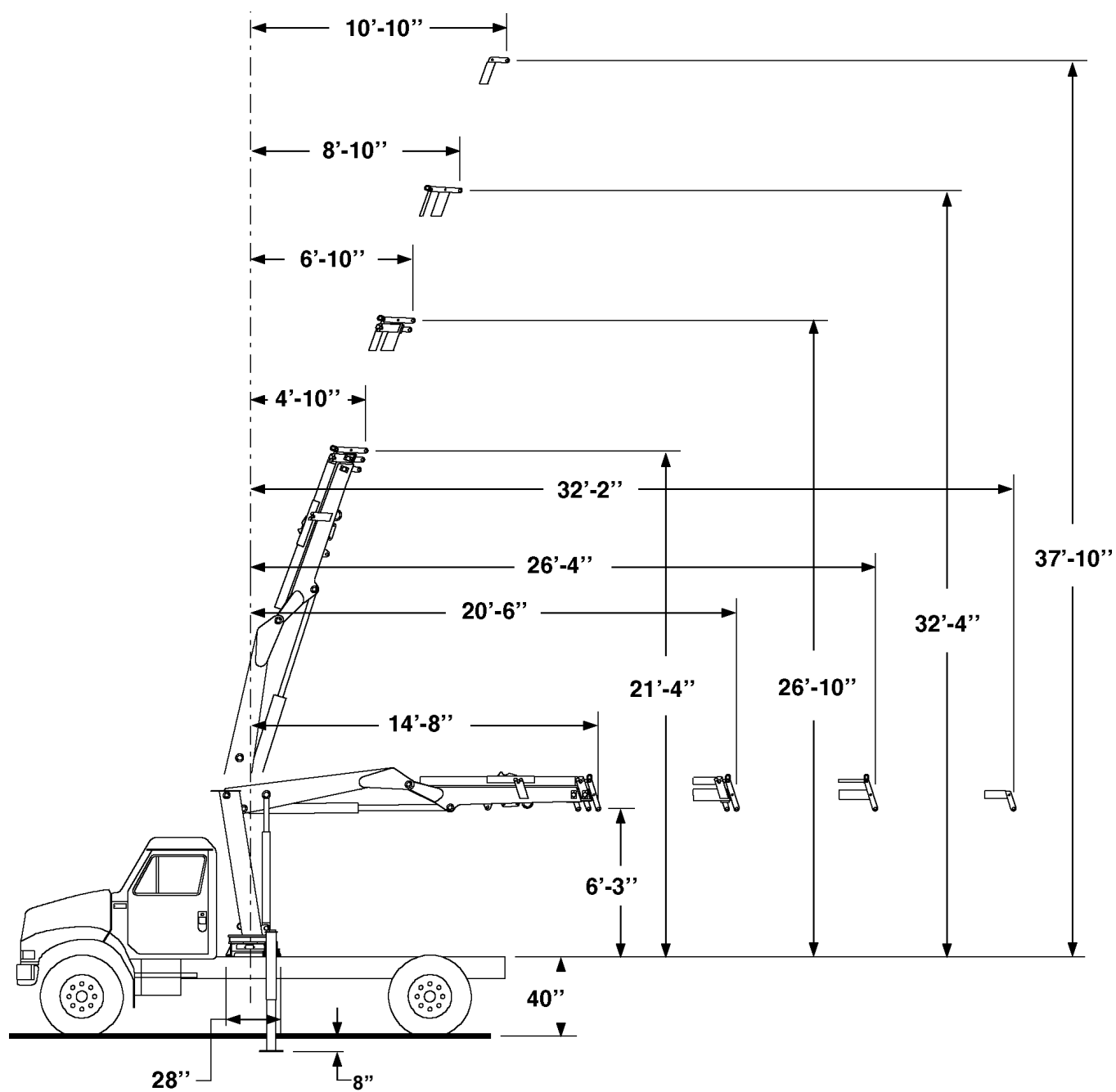


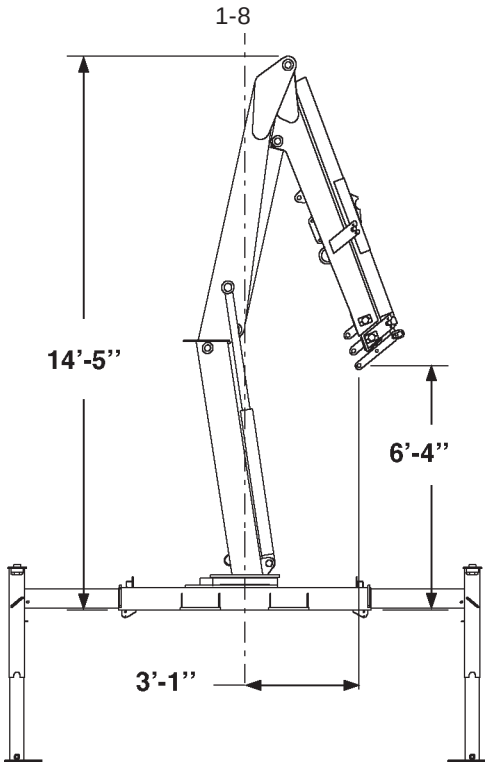
HOOK APPROACH DIMENSIONS-5800 SERIES-1H



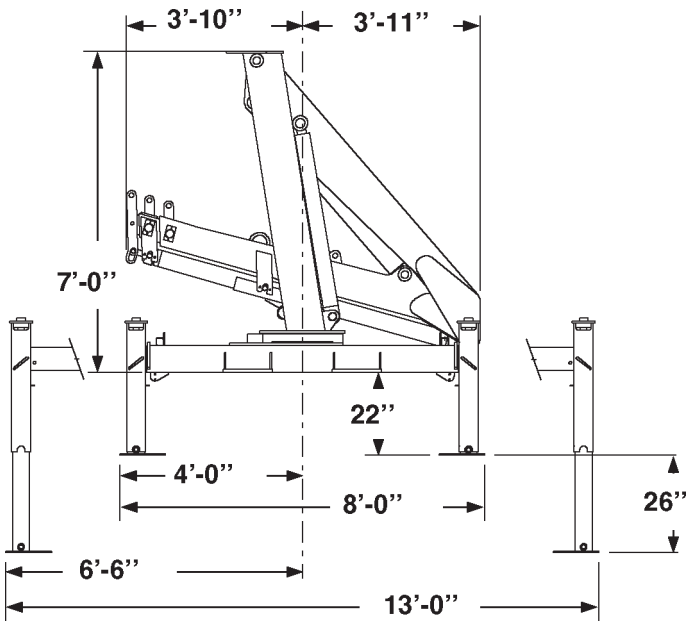
STOWED POSITION & STABILIZER DIMENSIONS-5800 SERIES-1H

GEOMETRIC CONFIGURATION-5800 SERIES-1H

GEOMETRIC CONFIGURATION-5800 SERIES-2H & 2H1M



HOOK APPROACH DIMENSIONS-5800 SERIES-2H1M



STOWED POSITION & STABILIZER DIMENSIONS-5800 SERIES-2H1M

CAPACITY CHART-5800 SERIES CRANE-2H & 2H1M

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Capacities through geometric range are limited to those shown in horizontal position.



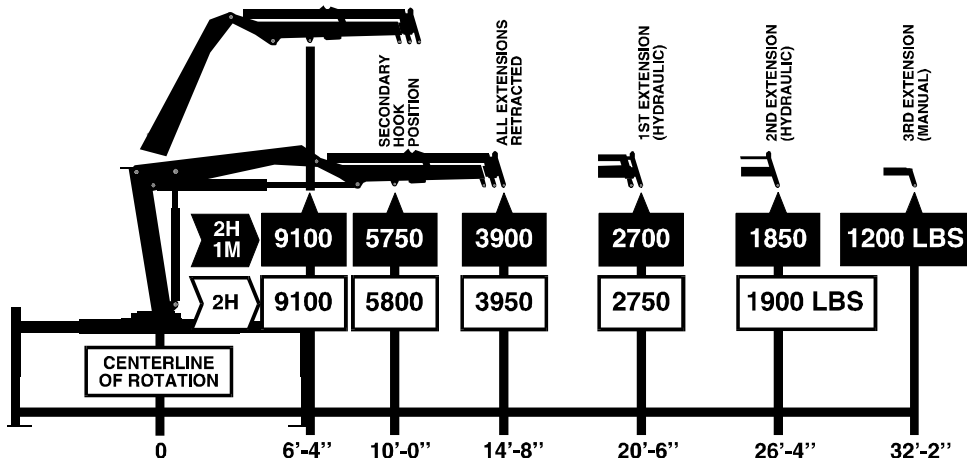
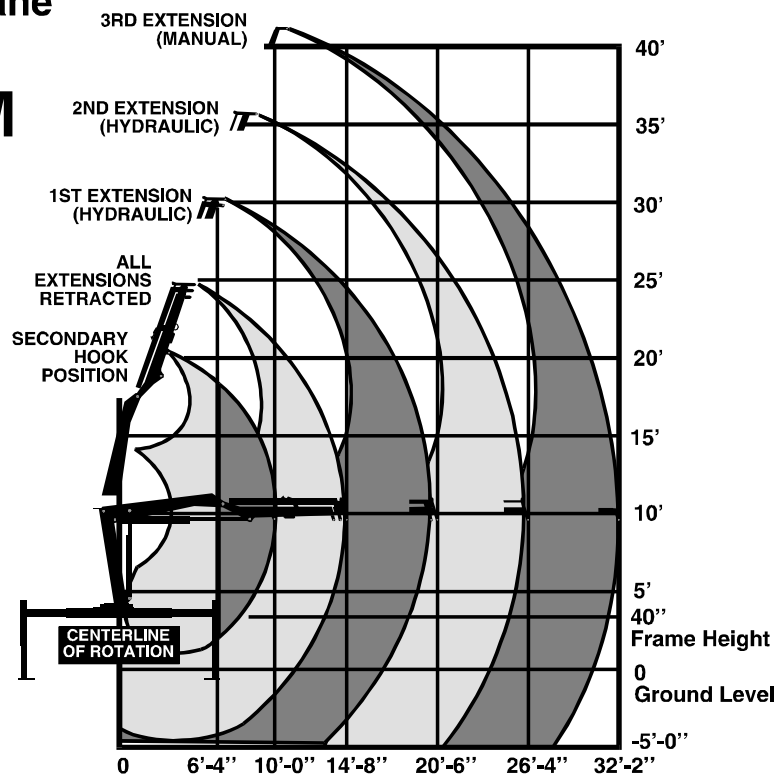
5800

Series Crane

2H

2H1M

- Loads shown are based on crane structural or hydraulic capability. Before lift is made, stability must be checked per SAE J765A.
- Working loads will be limited to those shown. Deduct the weight of load handling devices.
- Winch lifting capacity is limited to those shown - Maximum 4000 LBS for 1-part line.
- For loads over 4000 LBS, use crane hook only.



CAPACITY CHART-5800 SERIES-1H

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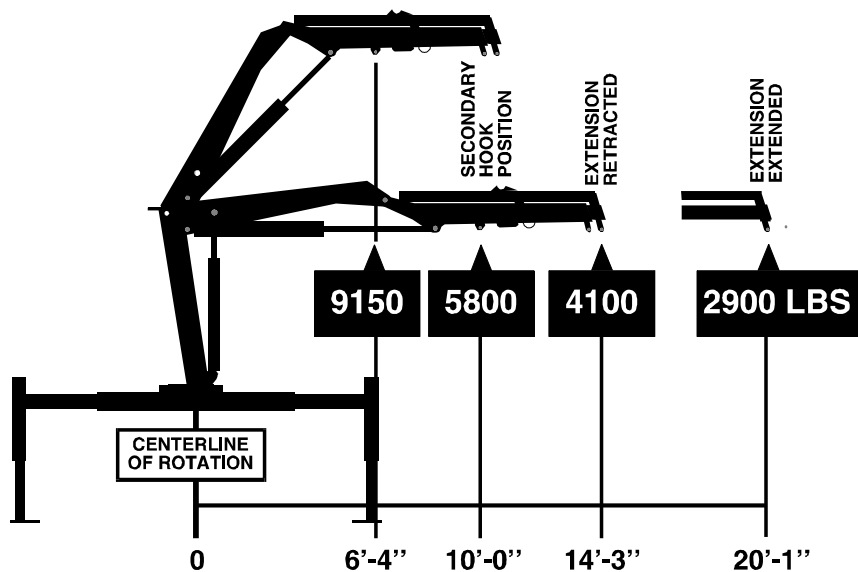
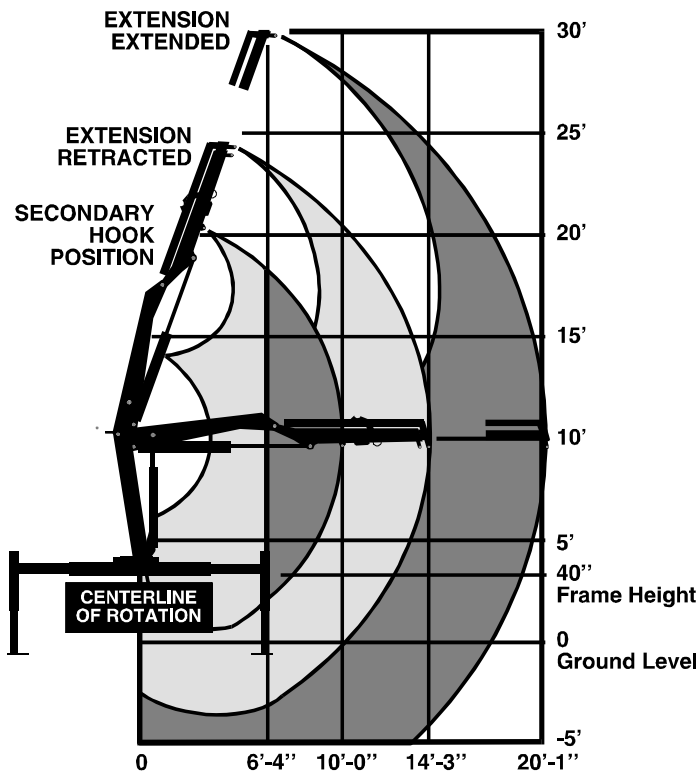
Capacities through geometric range are limited to those shown in horizontal position.



5800

Series Crane
1H

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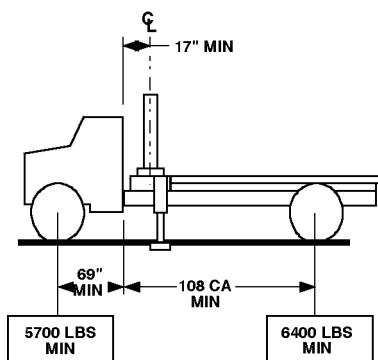
MINIMUM CHASSIS SPECIFICATIONS FOR STANDARD 5800 SERIES CRANE

Crane Mount	Behind Cab	Rear Mount
Crane Working Area	360°	360°
Chassis Style	Conventional Cab	Conventional Cab
Front Axle Rating (GVW)	9000 lbs	9000 lbs
Rear Axle Rating (GVW)	Single Axle 15,000 lbs	Single Axle 17,500 lbs
Wheelbase	177"	189"
Cab-to-axle	108"	120"
Outigger Width Required	13'-0"	13'-0"
RBM	800,000 in-lbs	900,000 in-lbs
Frame Section Modulus	16 cubic inches	18 cubic inches
Frame Yield Strength	50,000 psi	50,000 psi
Minimum Finished Unit Weight To Maintain Vehicle Stability		
Front Axle	*5700 lbs	**5100 lbs
Rear Axle	*6400 lbs	**8500 lbs
Total Finished Unit Wt.	12,100 lbs	13,600 lbs

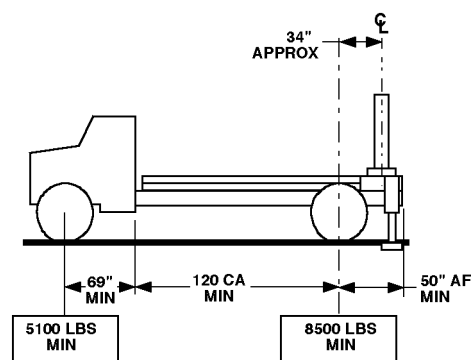
* Allows lifting full capacity load in a 360° arc when crane is installed immediately behind the cab. Great care should be taken when swinging the load from rear of vehicle to front of vehicle since the front axle springs will compress, thus affecting the levelness of the vehicle.

** Allows lifting full capacity load in a 360° arc when the crane is installed behind the rear axles.

**FIGURE A.
360° WORKING AREA**



**FIGURE B.
360° WORKING AREA**



NOTES:

1. GAWR means Gross Axle Weight Rating and is dependent on all components of the vehicle such as axles, tires, wheels, springs, brakes, steering and frame strength meeting the manufacturer's recommendations. Always specify GAWR when purchasing a truck.

2. Minimum axle requirements may increase with use of diesel engines, longer wheelbase or service bodies. Contact the factory for further information.

3. Weight distribution calculations are required to determine final axle loading.

4. All chassis and crane combinations must be stability tested to ensure stability per ANSI B30.22

IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

FAX: 641-923-2424

SECTION 1A. 880 SERIES CRANE SPECIFICATIONS

GENERAL SPECIFICATIONS 3

PERFORMANCE CHARACTERISTICS 4

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CYLINDER HOLDING VALVES 4

ROTATION SYSTEM 4

HYDRAULIC SYSTEM 4

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CAPACITY CHART-MODEL 880-2H & 2H1M 9

CAPACITY CHART-MODEL 880-1H 10

5800/880:99900937: 19961220

1A-2

NOTES

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MODEL 880 CRANE SPECIFICATIONS

GENERAL SPECIFICATIONS

	880 - 1H	880 - 2H	880 - 2H1M
CRANE RATING	8 ton-meters	8 ton-meters	8 ton-meters
HORIZONTAL REACH from centerline of rotation	6.12m	8.03m	9.80m
HYDRAULIC EXTENSION	178cm	178/178cm	178/178cm
MANUAL EXTENSION	None	None	178cm
VERTICAL REACH from mounting surface	8.07m	9.85m	11.53m
VERTICAL REACH from ground / 1.02m frame ht.	9.09m	10.87m	12.55m
*BASE CRANE WEIGHT	1109 kg	1227 kg	1264 kg
STABILIZER SPAN	3.96m	3.96m	3.96m
STABILIZER PADS	30 x 30cm	30 x 30cm	30 x 30cm
CRANE STORAGE HEIGHT from mounting surface	2.13m	2.13m	2.13m
CRANE STORAGE HEIGHT from ground / 1.02m frame ht.	3.15m	3.15m	3.15m
*MOUNTING SPACE REQUIRED	71cm	71cm	71cm
ROTATIONAL TORQUE	1200 kg-m	1200 kg-m	1200 kg-m
OPTIMUM PUMP CAPACITY	34 liters/min	34 liters/min	34 liters/min
SYSTEM OPERATING PRESSURE	172 bar	172 bar	172 bar
OIL RESERVOIR CAPACITY	64 liters	64 liters	64 liters
HOOK APPROACH - HORIZONTAL from centerline of rotation	89cm	94cm	94cm
HOOK APPROACH - VERTICAL from mounting surface	2.06m	1.93m	1.93m
DESIGN FACTOR - pins & hydraulics	4/1	4/1	4/1

* Allow an additional 13cm between the cab and crane base for swing clearance.

** Without stabilizers, hydraulic oil reservoir and mounting accessories.

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

PERFORMANCE CHARACTERISTICS

ROTATION:	450°/7.85 rad	30 seconds
INNER BOOM ELEVATION:	-.85 to +1.34 rad	24 seconds
OUTER BOOM ARTICULATION:	2.42 rad	21 seconds
TELESCOPIC EXTENSIONS:	178cm/178cm	26 / 15 seconds
SINGLE STAGE EXTENSION:	178cm	15 seconds
VERTICAL STABILIZER STROKE:	65cm	8 seconds

POWER SOURCE

Integral-mounted hydraulic pump and PTO application. Other standard power sources may be utilized - minimum power required is 17 horsepower.

CYLINDER HOLDING VALVES

The holding sides of all standard cylinders are equipped with integral-mounted holding or counter-balance valves to prevent sudden cylinder collapse in case of hose or other hydraulic failure. The stabilizer cylinders have positive, pilot-operated holding valves that open only on command.

The inner cylinders have single pilot-operated counter balance valves while the outer and extension boom cylinders have double counter-balance valves. The counter-balance valve serves several functions. First, it is a holding valve. Secondly, it is so constructed that it will control the lowering function and allow that motion to be feathered while under load. Finally, if a hose breaks, the only oil loss will be that in the hose.

ROTATION SYSTEM

Rotation of the crane is accomplished through a turntable bearing, powered by a high torque hydraulic motor through a ring and pinion type spur gear train. Total gear reduction is 39.61 to 1.

HYDRAULIC SYSTEM

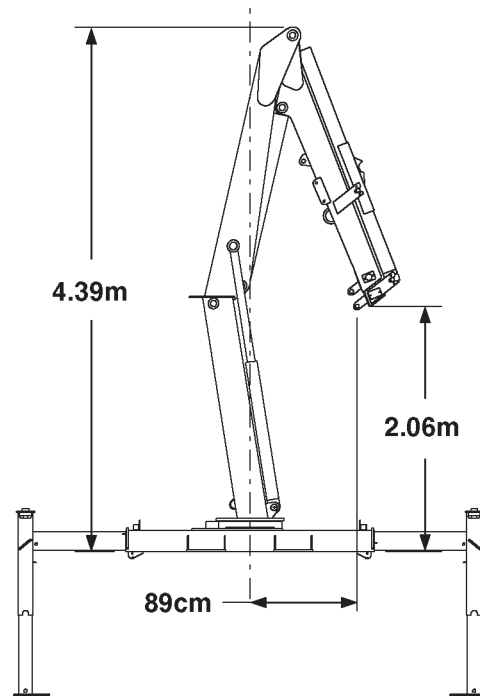
The hydraulic system is an open centered, full pressure system, requiring 34 liters/min optimum oil flow, at 172 bar. Eight-spool, stack-type control valve, six of which are used for the standard crane and the remaining two are plugged, but easily adapted for additional optional features. Dual operational handles for six functions are located at both sides of crane for convenient operation. System includes hydraulic oil reservoir, suction-line strainer, pump, 8-section control valve, return-line filter and all hoses and fittings.

SELECTED WEIGHTS OF ANCILLARY EQUIPMENT

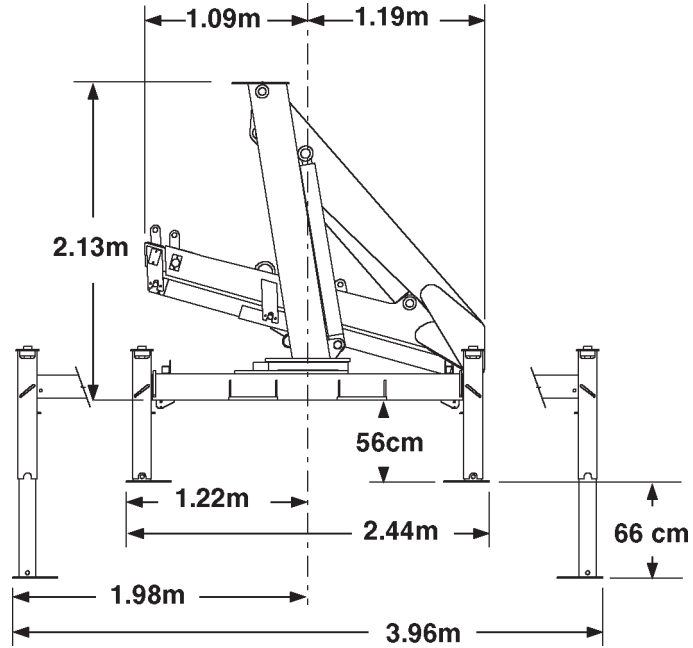
HYDRAULIC OIL RESERVOIR	23 kg
TUBULAR TYPE STABILIZERS	183 kg
CYLINDER TYPE STABILIZERS	154 kg

IMT reserves the right to change specifications and design without notice.

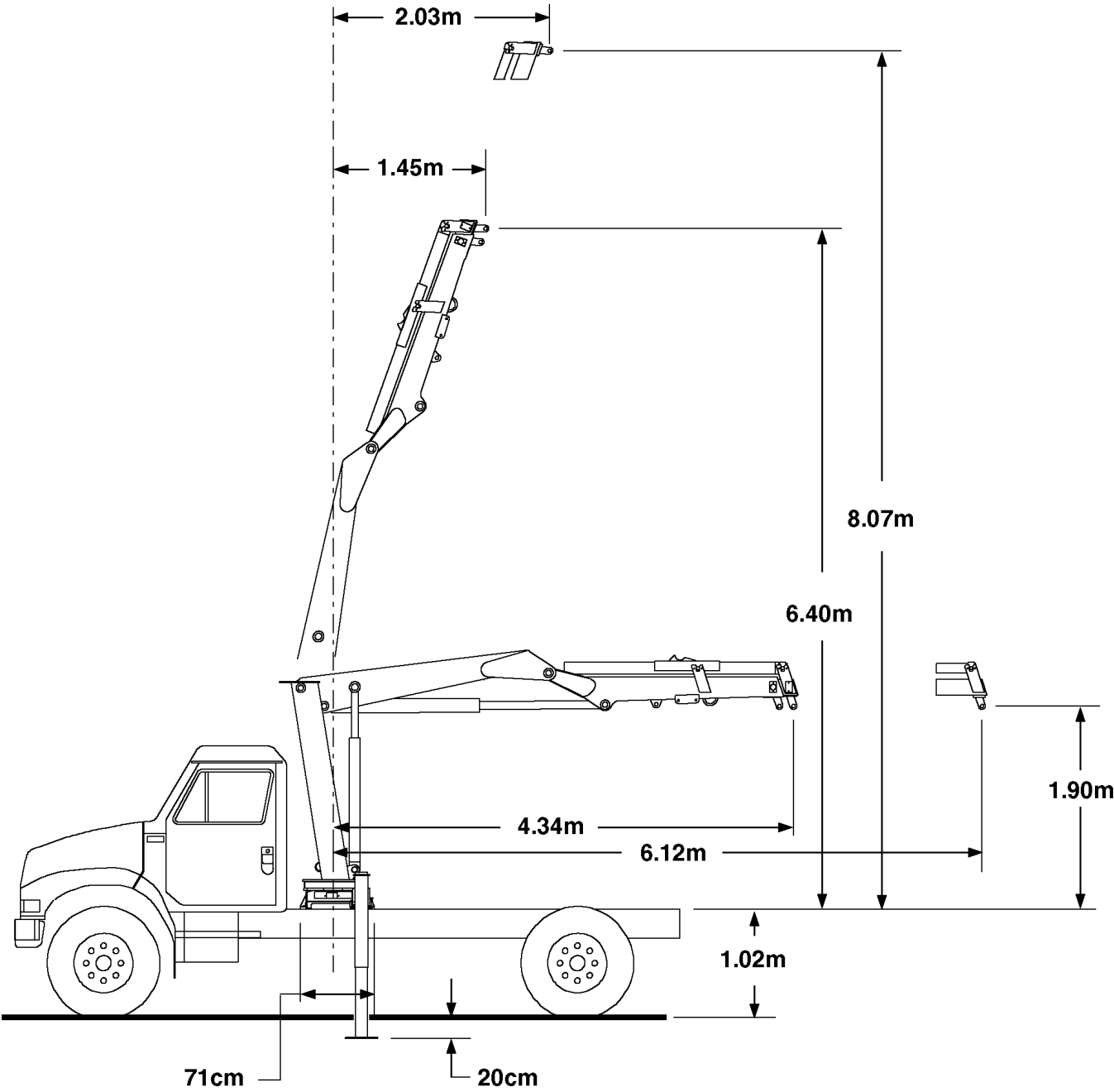
HOOK APPROACH DIMENSIONS-MODEL 880-1H

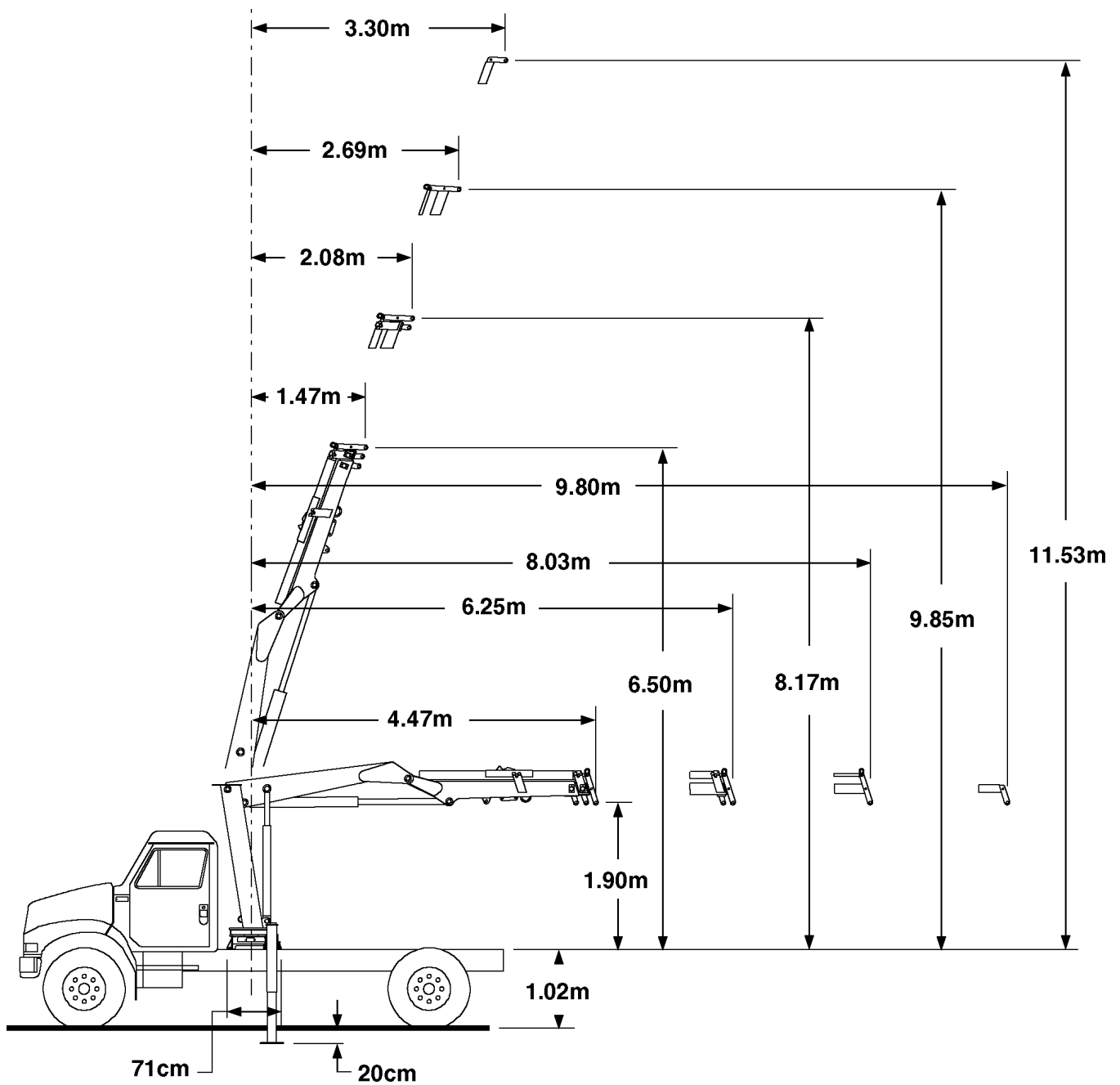


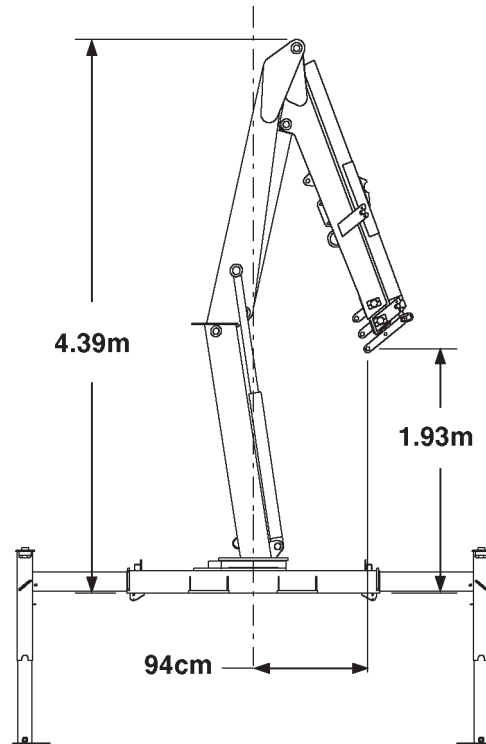
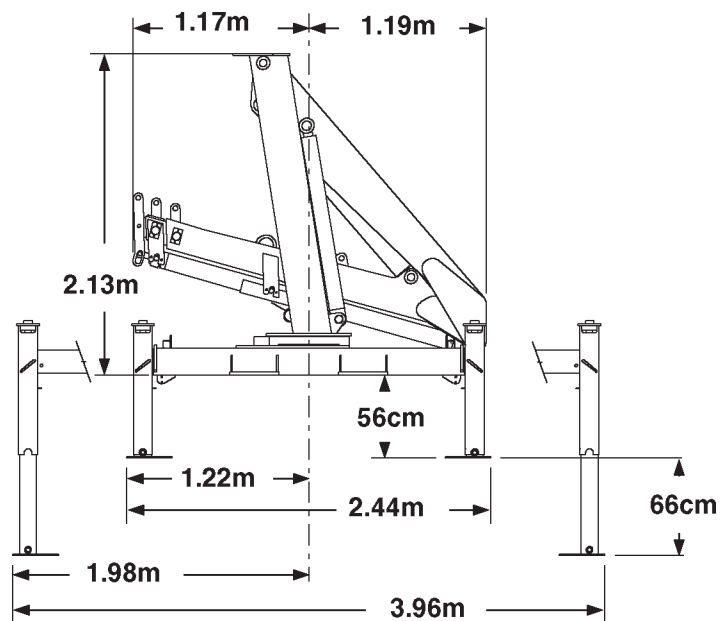
STOWED POSITION & STABILIZER DIMENSIONS-MODEL 880-1H



GEOMETRIC CONFIGURATION-MODEL 880-1H



GEOMETRIC CONFIGURATION-MODEL 880-2H & 2H1M

HOOK APPROACH DIMENSIONS-MODEL 880-2H1M**STOWED POSITION & STABILIZER DIMENSIONS-MODEL 880-2H1M**

CAPACITY CHART-MODEL 880-2H & 2H1M

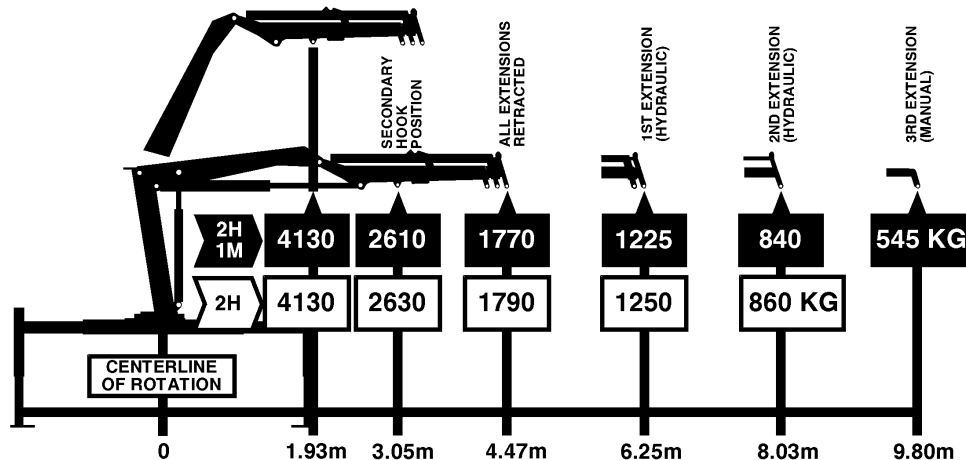
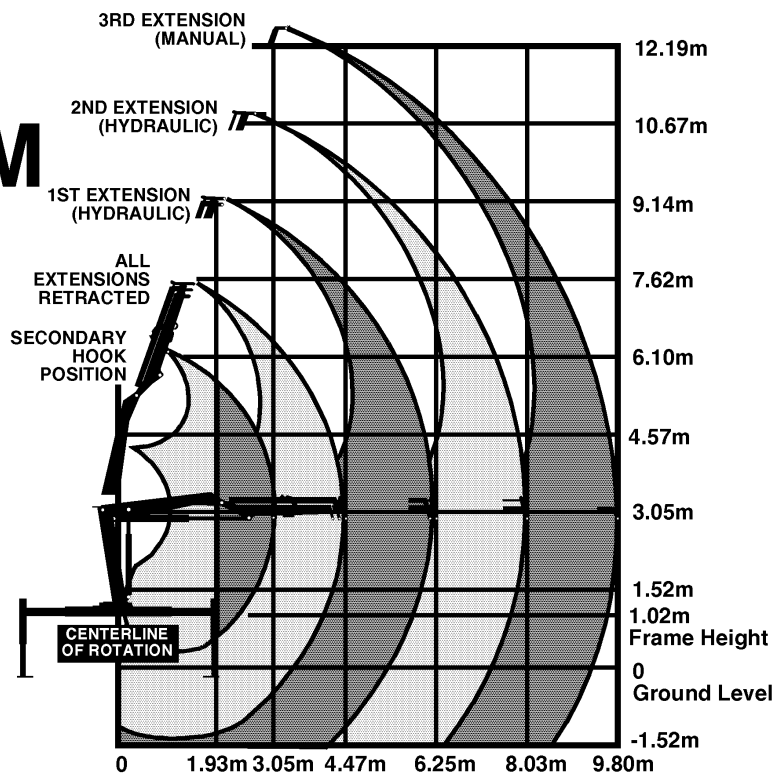
IOWA MOLD TOOLING CO., INC. • BOX 189 • GARNER • IA • 50438 • 641-923-3711

Capacities through geometric range are limited to those shown in horizontal position.



MODEL 880 2H 2H1M

- Loads shown are based on crane structural or hydraulic capability. Before lift is made, stability must be checked per SAE J765A.
- Working loads will be limited to those shown. Deduct the weight of load handling devices.
- Winch lifting capacity is limited to those shown - Maximum 1815 KG for 1-part line.
- For loads over 1815 KG, use crane hook only.



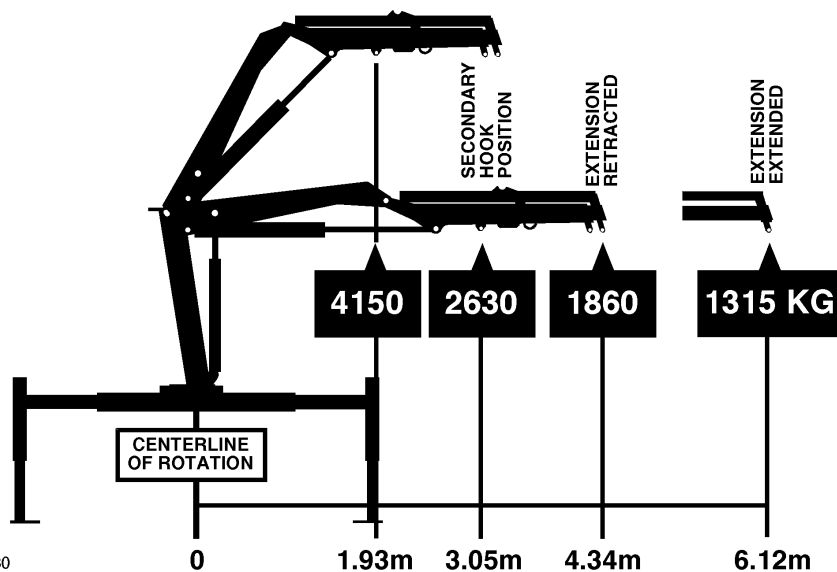
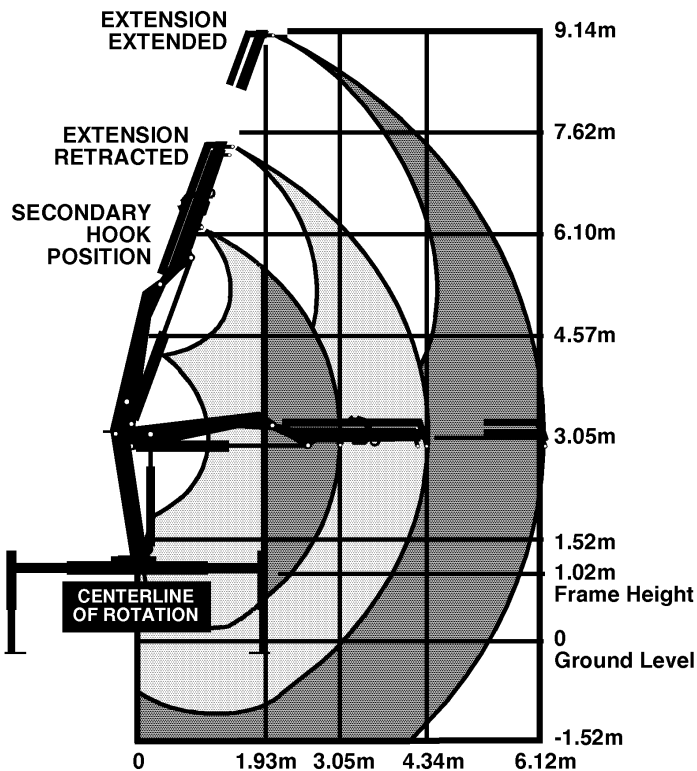
CAPACITY CHART-MODEL 880-1H

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Capacities through geometric range are limited to those shown in horizontal position.

**MODEL
880
1H**

- Loads shown are based on crane structural or hydraulic capability. Before lift is made, stability must be checked per SAE J765A.
- Working loads will be limited to those shown. Deduct the weight of load handling devices.
- Winch lifting capacity is limited to those shown - Maximum 1815 KG for 1-part line.
- For loads over 1815 KG, use crane hook only.



SECTION 2. 5800/880 CRANE REFERENCE

MAJOR CRANE ASSEMBLIES 3

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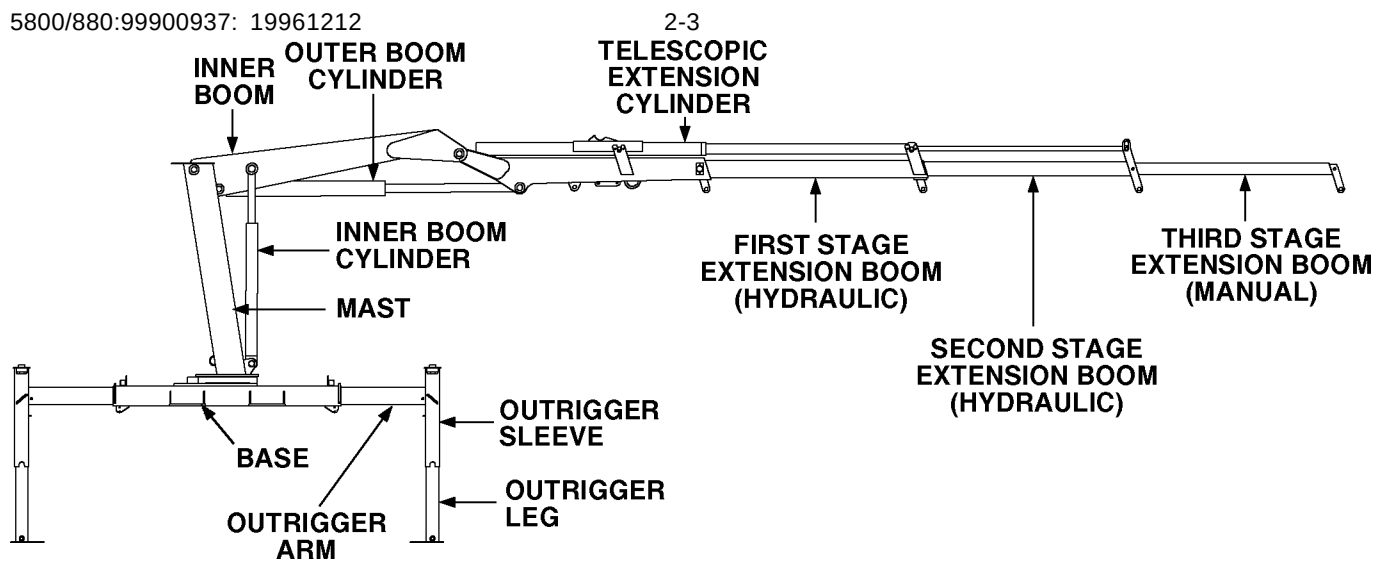
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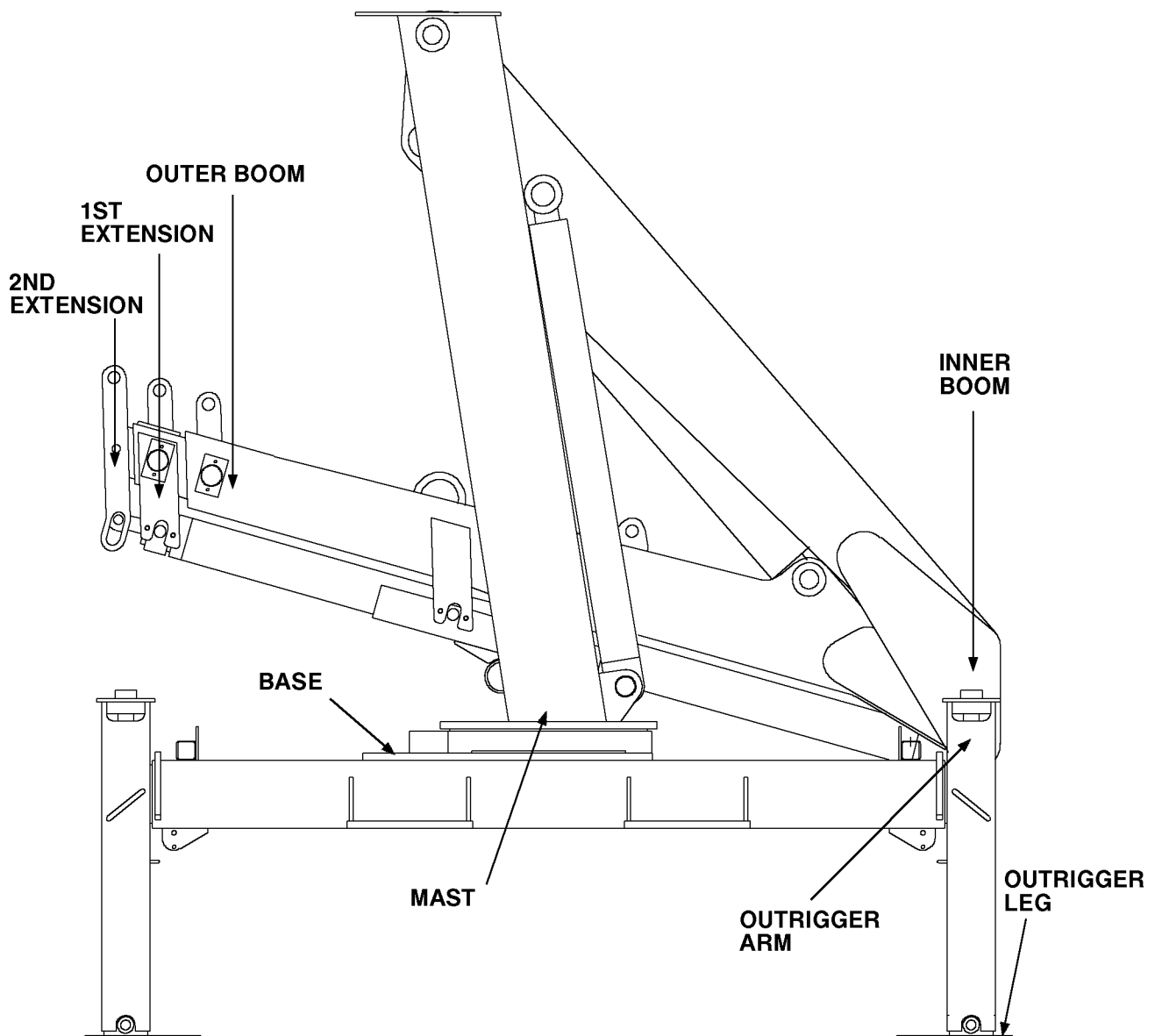
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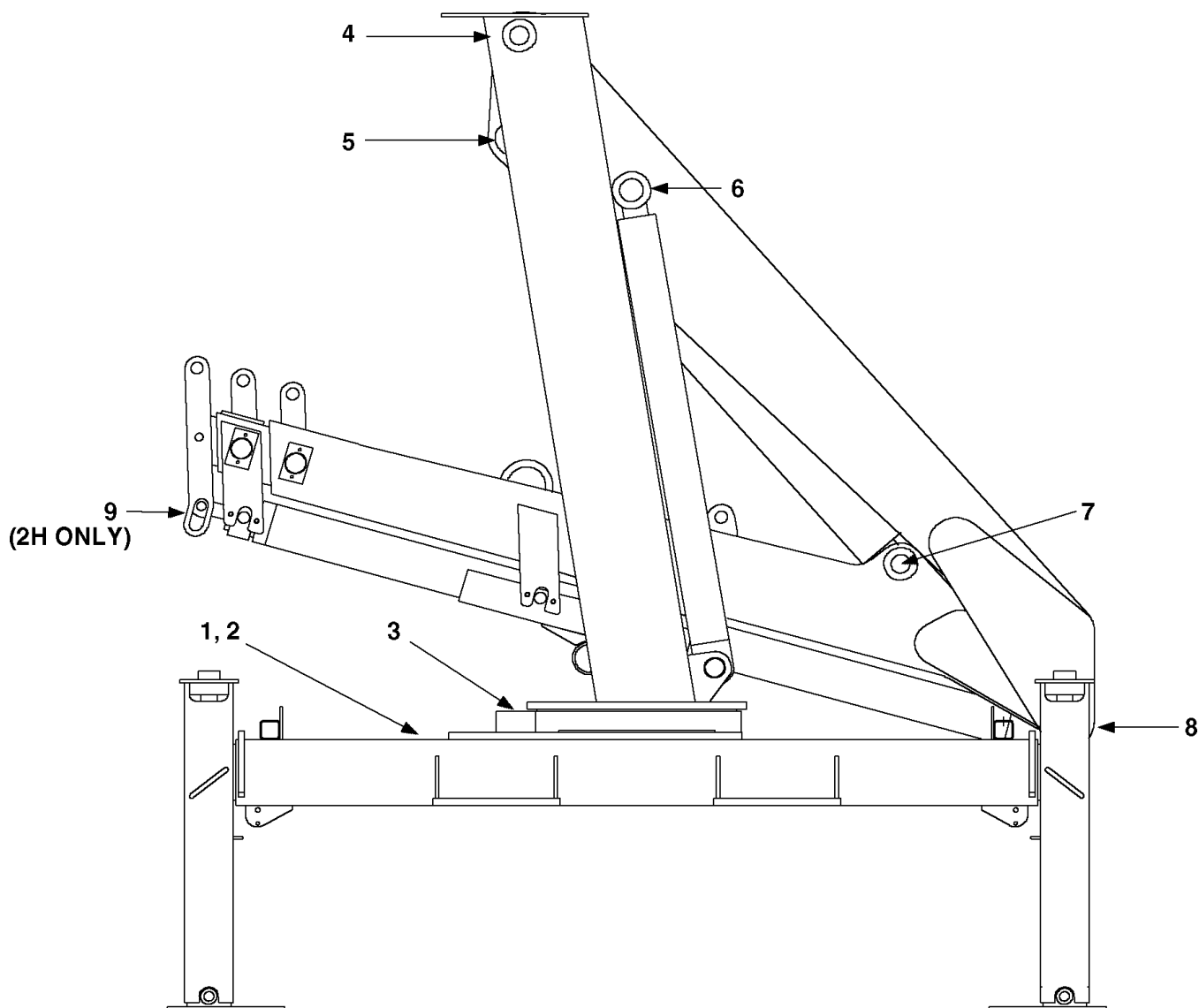


MAJOR CRANE ASSEMBLIES



WELDMENT PART NUMBER LOCATIONS

GREASE ZERK LOCATIONS & LUBRICANT REQUIREMENTS



ITEM	LOCATION DESCRIPTION	LUBRICANT	FREQUENCY
1.	DRIVE GEAR GREASE EXTENSION	SHELL ALVANIA 2EP OR SHELL RETINAX "A"	WEEKLY
2.	TURNTABLE/BEARING GREASE EXTENSION *ROTATE CRANE WHILE GREASING		
3.	PINION GEAR		
4.	MAST/INNER BOOM HINGE PIN		
5.	OUTER CYLINDER BASE		
6.	INNER CYLINDER ROD		
7.	OUTER CYLINDER ROD		
8.	INNER/OUTER BOOM HINGE PIN		
9.	EXTENSION CYLINDER ROD (2H ONLY)		

NOTE: All application points must be greased weekly under normal work loads and moderate weather conditions. Under severe operating conditions, lubrication should be performed more frequently. See Volume 1; Operation, Maintenance and Repair for additional lubrication requirements.

RECOMMENDED SPARE PARTS LIST

1 YEAR SUPPLY

5800/880 CRANE

FOR MANUAL: 99900937

This spare parts list does not necessarily indicate that the items can be expected to fail in the course of a year. It 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. 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 and you need to contact the distributor or manufacturer for availability.

ASSEMBLY DESIGNATION	ITEM NO.	PART NO.	DESCRIPTION	QTY	CODE	SHELF LIFE (MO)	ORDER QTY
41710897.01.20000405			STD BASE & MANUAL OUT STABILIZER ASM				
	41	71056265	PINION GEAR	1	W		
	55	60020116	BUSHING	1	W		
	57	60020115	BUSHING	1	W		
	58	60020188	BUSHING	1	W		
	59	60020187	BUSHING	1	W		
41710980.01.19961212			BASE & MANUAL OUT BOLT-ON STABILIZER ASM				
			SAME AS ABOVE FOR ALL ITEMS				
3B140920.01.19961212			POWER DOWN STABILIZER CYLINDER STD				
	5	73054004	VALVE	2	C		
	8	9B101214	SEAL KIT	2	W		
3A190920.01.19961212			POWER OUT STABILIZER CYLINDER				
	6	9B050608	VALVE	2	W		
3B197920.01.19961212			POWER DOWN BOLT-ON STABILIZER CYLINDER				
	5	9C197920	SEAL KIT	2	W		
	15	73054004	VALVE	2	C		
41710870.01.19961212			MAST ASM				
	2	7BF81520	BUSHING	2	W		
41710920.01.19961212			INNER BOOM ASM				
	4	7BF81220	BUSHING	12	W		
3B270000.01.20001102			INNER BOOM CYLINDER				
	3	6I035125	PISTON	1	W		
	4	6H035025	HEAD	1	W		
	5	9C142020	SEAL KIT	2	W		
	16	73054887	C'BAL VALVE	2	C		
	20	7BF81020	BUSHING	8	W		
41710914.01.19961212			OUTER BOOM ASM				
	5	7BF81220	BUSHING	4	W		
	9	60030175	WEAR PAD	1	W		
	10	60030060	WEAR PAD	2	W		
3C180920.01.19961212			OUTER BOOM CYLINDER				
	3	6I045143	PISTON	1	W		
	4	6H045030	HEAD	1	W		
	5	9C182423	SEAL KIT	1	W		
	15	73054242	VALVE 25GPM	2	C		
	19	7BF81220	BUSHING	2	W		
	20	7BF81520	BUSHING	2	W		
41710943.01.19961212			EXTENSION BOOM ASM - 1H				
	3	60030238	WEAR PAD-BEVELED	1	W		
3B200920.01.19961212			EXTENSION BOOM CYLINDER - 1H				
	3	6I302125	PISTON	1	W		
	4	6H030020	HEAD	1	W		
	5	73054242	VALVE	2	C		
	7	9C156920	SEAL KIT	1	W		
41710939.01.19961212			EXTENSION BOOM ASM - 2H				
	16	60030173	WEAR PAD	1	W		
	17	60030172	WEAR PAD	1	W		
	18	60030174	WEAR PAD	1	W		
	22	60030060	WEAR PAD	2	W		
41710940.01.19961212			EXTENSION BOOM ASM - 2H/1M				
	16	60030173	WEAR PAD	1	W		
	17	60030172	WEAR PAD	1	W		
	18	60030174	WEAR PAD	1	W		
	22	60030060	WEAR PAD	2	W		

(CONTINUED)

RECOMMENDED SPARE PARTS LIST (CONT.)

ASSEMBLY DESIGNATION	ITEM NO.	PART NO.	DESCRIPTION	QTY	CODE	SHELF LIFE (MO)	ORDER QTY
3K185920.01.19970721		EXTENSION BOOM CYLINDER - 2H					
	5	6I095850	PISTON	1	W		
	6	6I025087	PISTON	1	W		
	7	6H271511	HEAD	1	W		
	8	6H112820	HEAD	1	W		
	11	73054242	VALVE	2	C		
	12	9X095850	SEAL KIT	1	W		
93704355.01.19980722		INSTALLATION KIT - 6 FUNCTION PT O MANUAL					
		73052006	ELEMENT 10MIC	3	P		
		70048149	ELEMENT 100 MESH	3	P		
90716707.01.19990831		PROPORTIONAL REMOTE CONTROL KIT					
	1	77044837	VALVE DRIVER	1	C		
	10	77041251	RELAY	2	W		
	11	77041237	SOLENOID 12V	1	W		
51713429.01.19961212		PROPORTIONAL REMOTE HANDLE ASM					
	11	51707507	POTENTIOMETER	1	W		
	16	77040371	TOGGLE SWITCH SPDT	1	W		
	17	77040372	TOGGLE SWITCH SPST	6	W		
	18	77040373	TOGGLE SWITCH SPDT	2	W		
51713568.01.19961212		CABLE ASM-JIC BOX 94"					
	3	77041345	TOGGLE SWITCH ST	2	W		
	4	77041354	TOGGLE SWITCH DT	1	W		
	17	77041056	FUSE 20A IN-LINE	1	W		
70732573.01.19961212		RESERVOIR ASM					
	10	70144326	STRAINER 100MESH	3	P		
31705637.01.19970121		CABLE & HOOK KIT					
	1	52070705	PIN	1	W		
	3	60107592	CABLE 3/8X65'	1	W		
	4	70034204	SHEAVE 10-1/4 NYLON	1	W		
	5	70055024	BEARING	1	W		
	6	70055025	RACE	1	W		

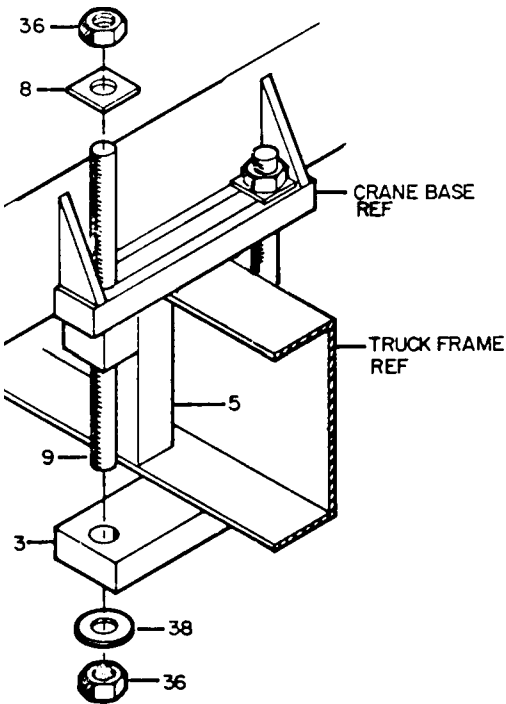
INSTALLATION

GENERAL

This section contains specific instructions for the installation of your crane. Prior to installing the crane and hydraulic components, make sure the chassis is ready to receive the crane (refer to VOLUME 1, Installation).

CRANE MOUNTING

1. See SPECIFICATIONS in Section 1 for crane weight. Using an overhead hoist and fabric slings of adequate capacity, lift the crane about a foot to see if the crane is adequately balanced. If not, lower hoist and adjust slings. Re-check balance and re-position crane until mounting surface is level.
2. Install the truck frame support so that the tie-down studs pass through the supports (See figure below). Cut the support to the inside dimensions of the truck frame. Allow about 1/6" (1.6mm) extra. Grind the end of the support to fit inside the frame channel. Use a hammer to drive it into position if necessary.



ITEM	DESCRIPTION	QTY
3.	CLAMP PLATE	4
5.	FRAME REINFORCEMENT BAR	4
8.	SQUARE WASHER	8
9.	TIE DOWN STUD	8
36.	LOCK NUT	16
38.	WASHER	8

CRANE INSTALLATION

3. Allow sufficient clearance between the cab and crane base, at least 5" (12.7cm). Position the crane on the chassis per the applicable installation drawing, centering the mounting slots over the truck frame rails. While holding crane with hoist, start mounting hardware per figure below. Note position of support weldments on truck frame. Hand tighten nuts. Observe underside of crane base. No clearance between base and frame bars is allowed.

4. Torque the 1"-8 UNC Grade 5 mounting hardware to 442 ft-lbs (62 kg-m). When torquing the mounting hardware the following precautions must be followed:

- A. Never use lock washers.
- B. Hardened washers must be used, and under the turning element, whether the turning element is the nut or the head of the bolt.
- C. Torque values specified are with residual oils or without special lubricants applied to the threads. If special lubricants are used, such as Never-Seize compound graphite and oil, molybdenum disulphite colloidal copper or white lead, reduce torque values 10%. Torque values for threaded fasteners are not affected with the use of Loctite.
- D. Do not use rusty fasteners, the rust will alter torque values significantly.
- E. Touch-up paint around mounting anchor plates.

CAUTION

DO NOT ATTEMPT TO APPLY THE SAME TORQUE TO THE TIE ROD AND SELF-LOCKING NUTS AS SHOWN IN THE TORQUE DATA CHART. DO NOT EXCEED 442 FT-LBS (62 KG-M). EXCEEDING THIS TORQUE VALUE COULD DAMAGE EITHER THE CHASSIS OR CRANE BASE.

POWER WRENCHING IS NOT RECOMMENDED UNTIL THE LEAD THREAD OF THE NUT INSERT IS ENGAGED BY HAND TURNING.

HYDRAULIC INSTALLATION

To install the hydraulic hoses, fittings, etc:

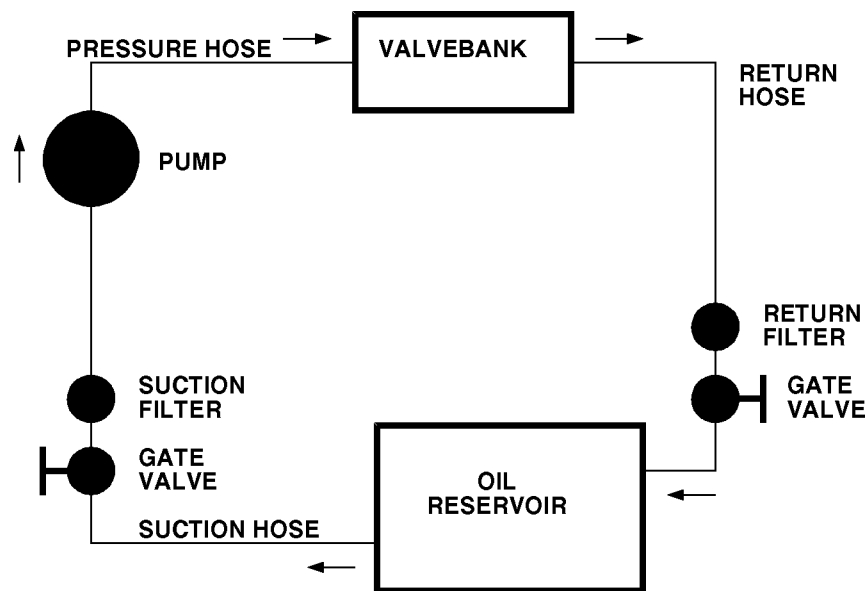
1. Install the hydraulic reservoir on the crane base.
2. Plumb the suction-line filter as shown in figure below.
3. Install the 1-1/4" suction hose between the suction-line filter and the pump inlet. Tighten the hose clamps.
4. Install the 1/2" pressure hoses between the pump outlet and the inlet port on the valvebank.
5. Install the return filter and gate valve on the reservoir. Install the hose between the valvebank and return filter.
6. Fill the hydraulic reservoir to the "FULL" mark.

7. Open the gate valve at the suction-line filter.

CAUTION

FAILURE TO OPEN THE GATE VALVE WILL RESULT IN A DRY RUNNING PUMP WHICH MAY DAMAGE THE PUMP.

8. Open the return gate valve.
9. Start the vehicle's engine and engage the PTO. Allow the system to run for about five minutes and then check the vacuum gauge on the suction-line filter (it should read 8" mercury or less). If the vacuum reading is too high, check to make certain that the gate valve is opened completely. If the valve is fully opened, check for a collapsed or restricted suction line.
10. Cycle all hydraulic functions. Check for leaks, and refill the reservoir if necessary.

**HYDRAULIC INSTALLATION**

WINCH TROUBLESHOOTING

POSSIBLE CAUSE	PROBABLE CURE
WINCH WON'T LIFT HEAVY LOADS	
TOO MUCH LOAD	RIG TO REDUCE LOADING ON WINCH
LOW OR NO GEARBOX OIL	CHECK OIL LEVEL AND ADD PROPER OIL IF NECESSARY
MOTOR INLET PRESSURE LESS THAN SPECIFICATIONS WITH LOAD STALLED	TEST HYDRAULIC PUMP
MOTOR OUTLET PRESSURE TOO HIGH WITH LOAD STALLED	FIND AND REMOVE SOURCE OF RESTRICTION
BRAKE SHOULD ENGAGE IN PAYOUT DIRECTION ONLY	RUN WINCH WITH NO LOAD IN BOTH DIRECTIONS. SYSTEM PRESSURE SHOULD BE SLIGHTLY HIGHER IN PAYOUT DIRECTION.
CHECK FLOW TO WINCH MOTOR WITH WINCH UNDER LOAD	TEST PUMP IF NOT TO SPECIFICATIONS
CHECK END PLAY IN WORM	IF GREATER THAN 0.030", INSPECT WORM BEARINGS FOR WEAR. REPLACE IF NECESSARY.
WINCH WON'T HOLD LOAD	
BRAKE MAY NEED ADJUSTMENT	TURN ADJUSTING SCREW CLOCKWISE 1/4 TURN AT A TIME AND TEST WINCH AGAIN
BRAKE DISKS MAY BE WORN	INSPECT AND REPLACE IF NECESSARY. ADJUST AND RETEST
CAM CLUTCH IN BRAKE MAY BE INSTALLED INCORRECTLY	REVERSE CLUTCH AND RETEST
JOURNAL ON WORM WHERE CAM CLUTCH RUNS MAY BE GALLED OR WORN	INSPECT AND REPLACE WORM IF NECESSARY
WINCH RUNS TOO SLOW	
SYSTEM MAY HAVE LOW FLOW	INSTALL FLOW METER IN SYSTEM AND TEST UNDER LOAD. IF FLOW IS BELOW SPECIFICATIONS, INSPECT PUMP.
MOTOR WORN OUT	REPLACE MOTOR
WINCH WILL NOT RUN UNDER NO LOAD (RELIEF VALVE OPENS WITHOUT WINCH TURNING)	
MOTOR SEIZED UP	REMOVE MOTOR FROM WINCH AND TEST IF OPERABLE. IF NOT, REPLACE MOTOR.
WORM AND GEAR SET DAMAGED	REPAIR GEARBOX

See Section 3 for parts drawing.

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SECTION 3. REPLACEMENT PARTS 5800/880 CRANE

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RADIO REMOTE KIT (73733600-2)	60
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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 REPAIR section in Volume 1. 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 IN VOLUME 1. 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) 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.

All inquiries should be addressed to:

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

IOWA MOLD TOOLING CO., INC. BOX 189, GARNER, IA 50438-0189	
MODEL NUMBER	
SERIAL NUMBER	
MFG DATE	
70029119	

SERIAL NUMBER PLACARD

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.

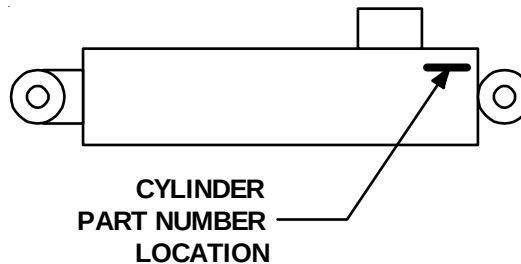
WELDMENT IDENTIFICATION

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 Section 2.

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.



CYLINDER PART NUMBER LOCATION

STD BASE & MO STABILIZER ASM (41710897-1)

ITEM	PART NO.	DESCRIPTION	QTY
1.	52710894	BASE	1
2.	52710887	STABILIZER ARM	2
3.	52705871	STABILIZER LEG	2
4.	3B140920	POWER DOWN CYLINDER	2
5.	72060102	CAP SCR 1/2-13X5-1/2 HH GR5	4
6.	72066125	RETAINING RING 1"	4
7.	60106968	PIN	2
8.	72060002	CAP SCR 1/4-20X3/4 HH GR5	2
9.	72063049	WASHER 1/4 LOCK	2
10.	71145016	STOP BLOCK	1
11.	60107648	HOSE CLAMP	2
12.	72062103	NUT 3/8-16 LOCK	4
13.	52070138	T-PIN	2
14.	60010351	SPRING	2
15.	72063027	MACH BUSHING 5/8X14GA NR	2
16.	72066185	COTTER PIN .16X1	2
17.	72053301	COUPLING 1/8NPT	2
18.	72053508	ZERK 1/8NPT	2
19.	72063003	WASHER 3/8 WRT	2
20.	72060833	SCR 5/16-18X3/4 HH SLFTP	2
21.	72063002	WASHER 5/16 WRT	2
22.	60010235	PINION COVER	1
23.	60030053	ROLLER 1/2X2X1-3/8 LG	4
24.	60106314	PIN	4
25.	72066178	COTTER PIN 1/8X1	8
26.	60102769	GUARD	1
27.	60116261	CHAIN	2
28.	70058060	LINK-COLD SHUT	2
29.	72060053	CAP SCR 3/8-16X2-3/4 HH GR5	2
30.	72060023	CAP SCR 5/16-18X3/4 HH GR5	2
31.	72062107	NUT 1/2-13 CTR LOCK	4
32.	70732573	RESERVOIR ASM	1
33.	72063003	WASHER 3/8 WRT	8

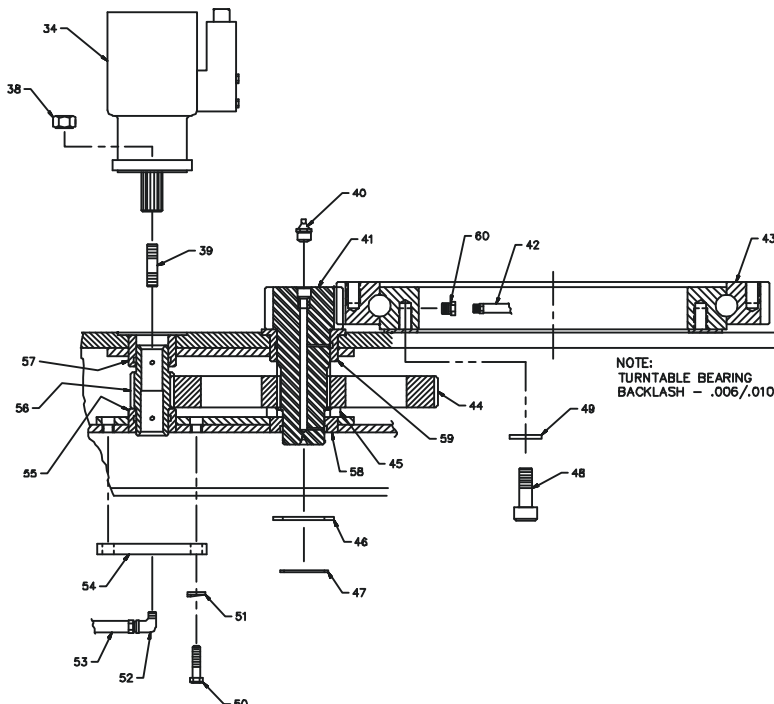
NOTE

INSTALL 70399271 - DECAL-FULLY DEPLOYED - ON TOP OF STABILIZER BEAMS WHEN BEAMS ARE FULLY EXTENDED. DECAL MUST BE VISIBLE.

34.	73540004	HYD MOTOR (FROM 5-15-98)	1
	73051004	HYD MOTOR (TO 5-15-98)	1
	5V151830	MANIFOLD BLOCK (TO 5-15-98)	1
	72060738	CAP SCR (TO 5-15-98)	4
	7Q072112	O-RING (TO 5-15-98)	2
	73054538	C'BALANCE VALVE (TO 5-15-98)	2
38.	72062080	NUT 1/2-13 LOCK	2
39.	60106032	STUD 1/2-13X2	2
40.	72053508	ZERK 1/8NPT	1
41.	71056265	PINION GEAR	1
42.	53000713	GREASE EXTENSION 38"	1
43.	71056627	TURNTABLE BEARING	1
44.	71056264	INTERMEDIATE GEAR	1
45.	60106886	PINION GEAR SPACER	1
46.	72063039	MACH BUSHING 2X10GA NR	1
47.	72066095	RETAINING RING 2 EXT STD	1
48.	72601691	CAP SCR 3/4-10X3 SH	20
49.	72063116	WASHER 3/4 FLAT HARD	20
50.	72060091	CAP SCR 1/2-13X1 HH GR5	2
51.	72063053	WASHER 1/2 LOCK	2
52.	72053281	STREET ELBOW 1/8NPT 90°	1
53.	53000714	GREASE EXTENSION 10"	1
54.	60010844	GREASE PLATE	1
55.	60020116	BUSHING (PART OF 1)	1REF
56.	71056011	DRIVE GEAR (PART OF 1)	1REF
57.	60020115	BUSHING (PART OF 1)	1REF
58.	60020188	BUSHING (PART OF 1)	1REF
59.	60020187	BUSHING (PART OF 1)	1REF
60.	72531826	REDUCER 1/4X1/8NPT	1
61.	72062103	NUT 3/8-16 LOCK	4
62.	72060046	CAP SCR 3/8-16X1 HH GR5	4
63.	60102767	COVER	1
64.	72063050	WASHER 5/16 LOCK	2
66.	60119748	GUARD-CTRL HANDLE	2
67.	72060005	CAP SCR 1/4-20X1-1/4 HHGR5	8
68.	72063001	WASHER 1/4 WRT	16
69.	72062104	NUT 1/4-20 LOCK	8
70.	89044331	LOOM X 5.667 FT	1

WARNING

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



CAUTION

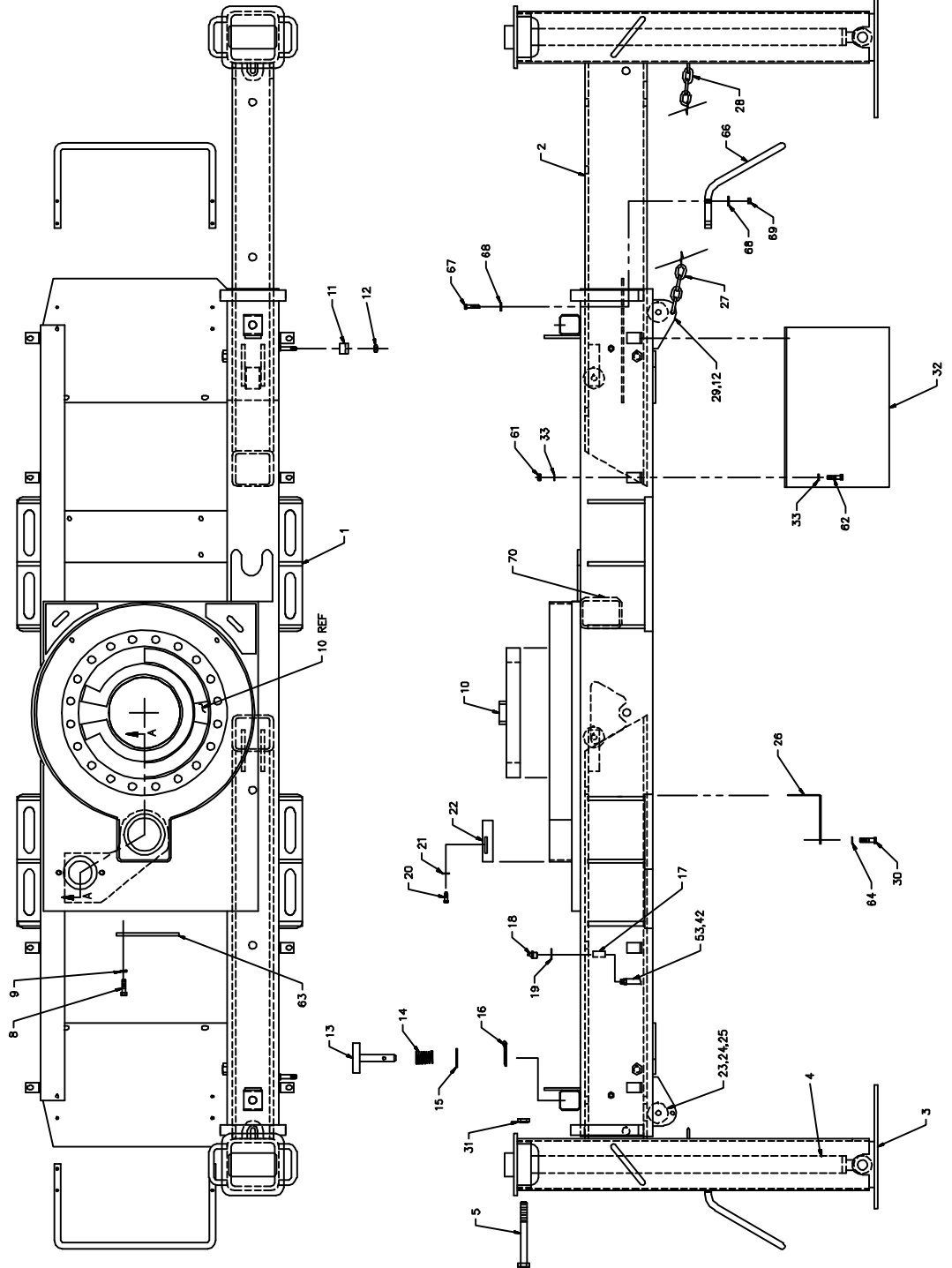
BEFORE TIGHTENING TURNTABLE BEARING BOLTS, REFER TO THE TURNTABLE BEARING FASTENER TIGHTENING SEQUENCE AND TORQUE DATA CHART IN THE REFERENCE SECTION.

NOTE

TURNTABLE BEARING BACKLASH = .006"-.010" (.152-.254mm)

STD BASE & MO STABILIZER ASM (41710897)

NOTE:
APPLY MOBILTAC 375 NC LUBRICANT (OR EQUIVA-
LENT) TO THE EXTERNAL TEETH OF THE TURNTABLE
BEARING AND PINION GEAR.



**OPTION-PWR OUT STABILIZER KIT
(31710950)**

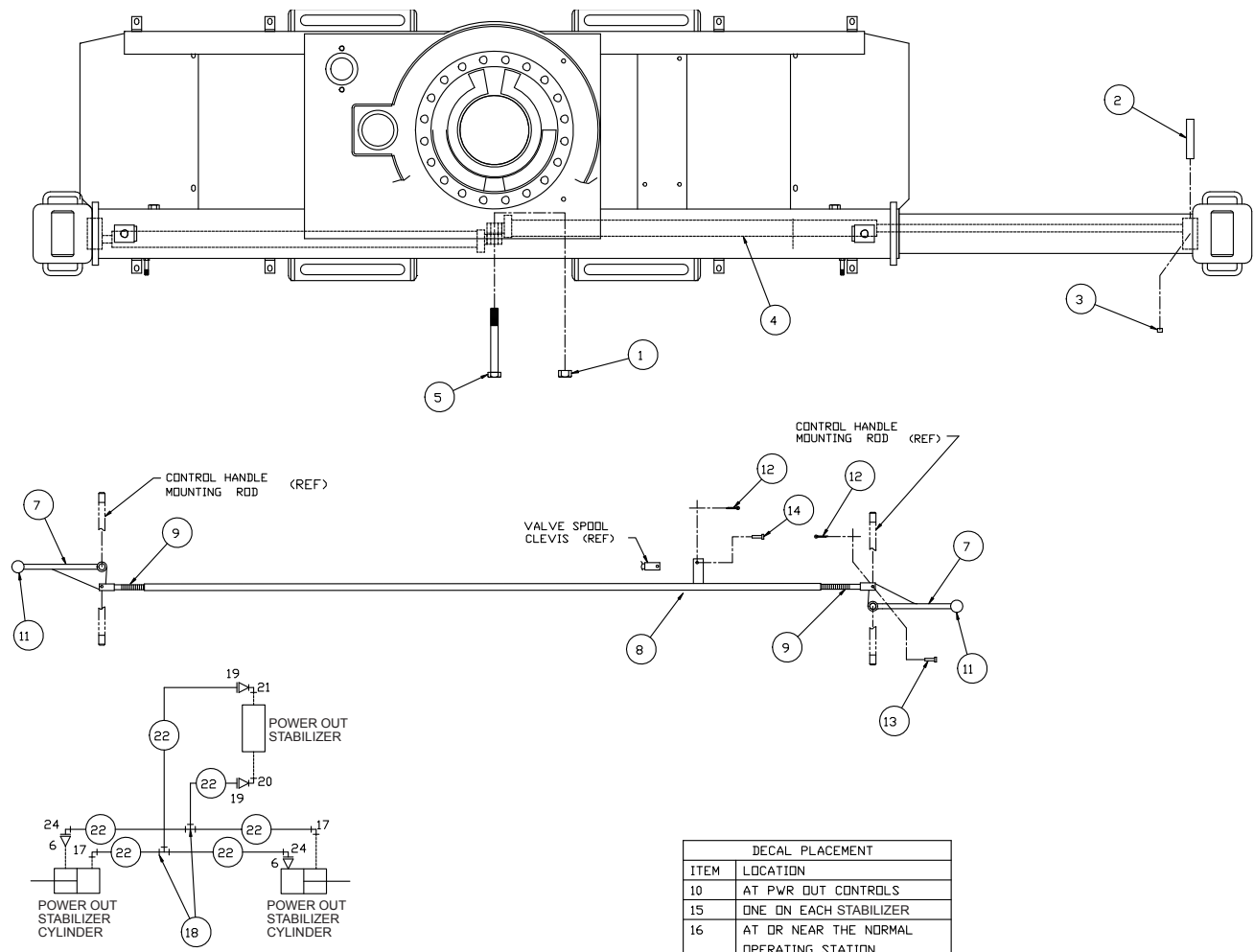
ITEM PART NO.	DESCRIPTION	QTY
1. 72062114	NUT 3/4-10 LOCK	1
2. 60116325	PIN	2
3. 72060578	SET SCR 3/8-16X3/8 SH	2
4. 3A190920	POWER OUT CYLINDER	2
5. 72060194	CAP SCR 3/4-10X6-1/2 HHGR5	1
6. 72532351	ADAPTER #4MSTR #4MJIC	2
7. 70029451	CONTROL HANDLE	2
8. 52704744	CONTROL ROD F	1
9. 52704745	CONTROL ROD M	2
10. 71392277	DECAL-PWR OUT STAB	2
11. 71039096	KNOB	2
12. 72066168	COTTER PIN 3/16X3/4	3
13. 72066338	CLEVIS PIN 5/16X1	2
14. 72661169	CLEVIS PIN 5/16X3/4	1
15. 70392864	DECAL-WARN STAB STD CLR	2
17. 72053758	ELBOW 7/16MSTR 90° 2	
18. 72532768	TEE 7/16MJIC 9/16FJIC 2	
19. 72532707	ADAPTER 7/16MJIC 9/16FJIC 2	
20. 72532700	ELBOW 9/16MSTR 9/16MJICXLG 1	
21. 72053760	ELBOW 9/16MSTR 9/16MJIC 90° 1	
22. 51703591	HOSE ASM 1/4X20 6	
24. 72532690	ELBOW #4MJIC #4FJIC SWVL 2	

NOTE

THIS OPTION IS AVAILABLE FOR BOTH STANDARD AND OPTIONAL BASE ASSEMBLIES.

NOTE

INSTALL 70399271 - DECAL-FULLY DEPLOYED - ON TOP OF STABILIZER BEAMS WHEN BEAMS ARE FULLY EXTENDED. DECAL MUST BE VISIBLE.



OPTION-BASE & MO BOLT-ON STABILIZER ASM (41710980-1)

ITEM	PART NO.	DESCRIPTION	QTY
1.	52710894	BASE	1
2.	52710932	STABILIZER ARM	2
4.	3B197920	POWER DOWN CYLINDER	2
5.	72060155	CAP SCR 5/8-11X3-1/2 HH GR5	6
6.	60116261	CHAIN	2
7.	70058060	COLD SHUT LINK	2
8.	72060002	CAP SCR 1/4-20X3/4 HH GR5	2
9.	72063049	WASHER 1/4 LOCK	2
10.	71145016	STOP BLOCK	1
11.	60103278	HOSE CLAMP	2
12.	72062103	NUT 3/8-16 LOCK	4
13.	52070138	T-PIN	2
14.	60010351	SPRING	2
15.	72063027	MACH BUSHING 5/8X14GA NR	2
16.	72066185	COTTER PIN .16X1	2
17.	72053301	COUPLING 1/8NPT	2
18.	72053508	ZERK 1/8NPT	2
19.	72063003	WASHER 3/8 WRT	2
20.	72060833	SCR 5/16-18X3/4 HH SLFTPG	2
21.	72063002	WASHER 5/16 WRT	2
22.	60010235	PINION COVER	1
23.	60030053	ROLLER 1/2X2X1-3/8 LG	4
24.	60106314	PIN	4
25.	72066178	COTTER PIN 1/8X1	8
26.	60102769	GUARD	1
28.	72060053	CAP SCR 3/8-16X2-3/4 HH GR5	2
30.	72060023	CAP SCR 5/16-18X3/4 HH GR5	2
31.	72062091	NUT 5/8-11 LOCK	6
32.	70732573	RESERVOIR ASM	1
33.	72063003	WASHER 3/8 WRT	8
34.	73540004	HYD MOTOR (FROM 5-15-98)	1
	73051004	HYD MOTOR (TO 5-15-98)	1
	5V151830	MANIFOLD BLOCK (TO 5-15-98)	1
	72060738	CAP SCR (TO 5-15-98)	4
	7Q072112	O-RING (TO 5-15-98)	2
	73054538	C'BALANCE VALVE (TO 5-15-98)	2

38.	72062080	NUT 1/2-13 LOCK	2
39.	60106032	STUD 1/2-13X2	2
40.	72053508	ZERK 1/8NPT	1
41.	71056265	PINION GEAR	1
42.	53000704	GREASE EXTENSION 34"	1
43.	71056361	TURNTABLE BEARING	1
44.	71056264	INTERMEDIATE GEAR	1
45.	60106886	PINION GEAR SPACER	1
46.	72063039	MACH BUSHING 2X10GA NR	1
47.	72066095	RETAINING RING 2 EXT STD	1
48.	72601691	CAP SCR 3/4-10X3 SH	20
49.	72063116	WASHER 3/4 FLAT HARD	20
50.	72060091	CAP SCR 1/2-13X1 HH GR5	2
51.	72063053	WASHER 1/2 LOCK	2
52.	72053281	STREET ELBOW 1/8NPT 90°	1
53.	53000714	GREASE EXTENSION 10"	1
54.	60010844	GREASE PLATE	1
55.	60020116	BUSHING (PART OF 1)	1REF
56.	71056011	DRIVE GEAR (PART OF 1)	1REF
57.	60020115	BUSHING (PART OF 1)	1REF
58.	60020188	BUSHING (PART OF 1)	1REF
59.	60020187	BUSHING (PART OF 1)	1REF
60.	72531826	REDUCER 1/4X1/8NPT	1
61.	72062103	NUT 3/8-16 LOCK	4
62.	72060046	CAP SCR 3/8-16X1 HH GR5	4
63.	60102767	COVER	1
64.	72063050	WASHER 5/16 LOCK	2
66.	52711392	STABILIZER PAD	2
67.	60119748	GUARD-CTRL HANDLE	2
68.	72060005	CAP SCR 1/4-20X1-1/4 HHGR5	8
69.	72063001	WASHER 1/4 WRT	16
70.	72062104	NUT 1/4-20 LOCK	8
71.	89044331	LOOM X 5.667 FT	1

WARNING

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

CAUTION

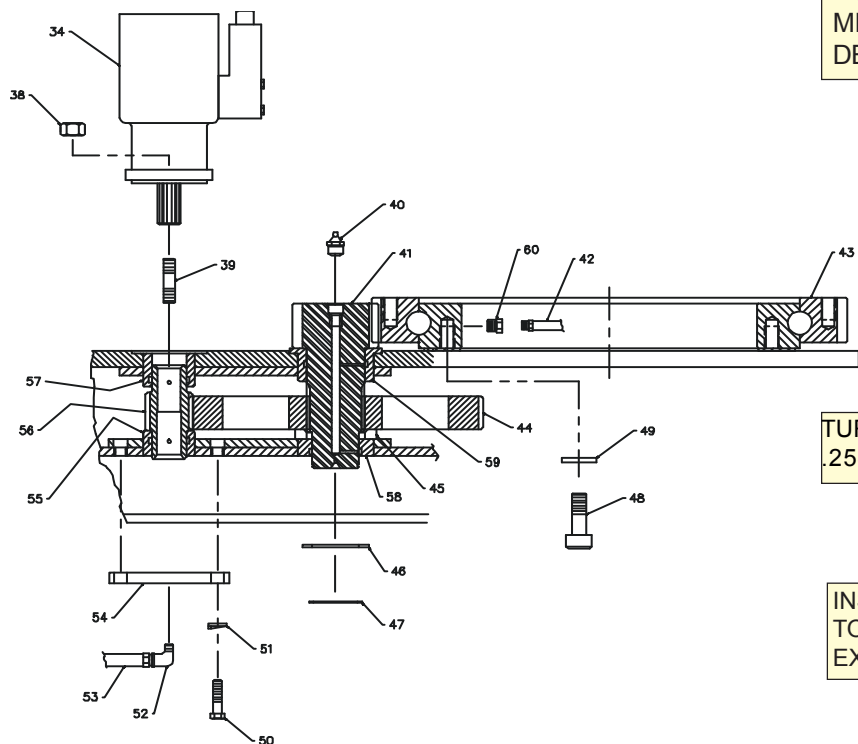
BEFORE TIGHTENING TURNTABLE BEARING BOLTS, REFER TO THE TURNTABLE BEARING FASTENER TIGHTENING SEQUENCE AND TORQUE DATA CHART IN THE REFERENCE SECTION.

NOTE

TURNTABLE BEARING BACKLASH = .006"-.010" (.152-.254mm)

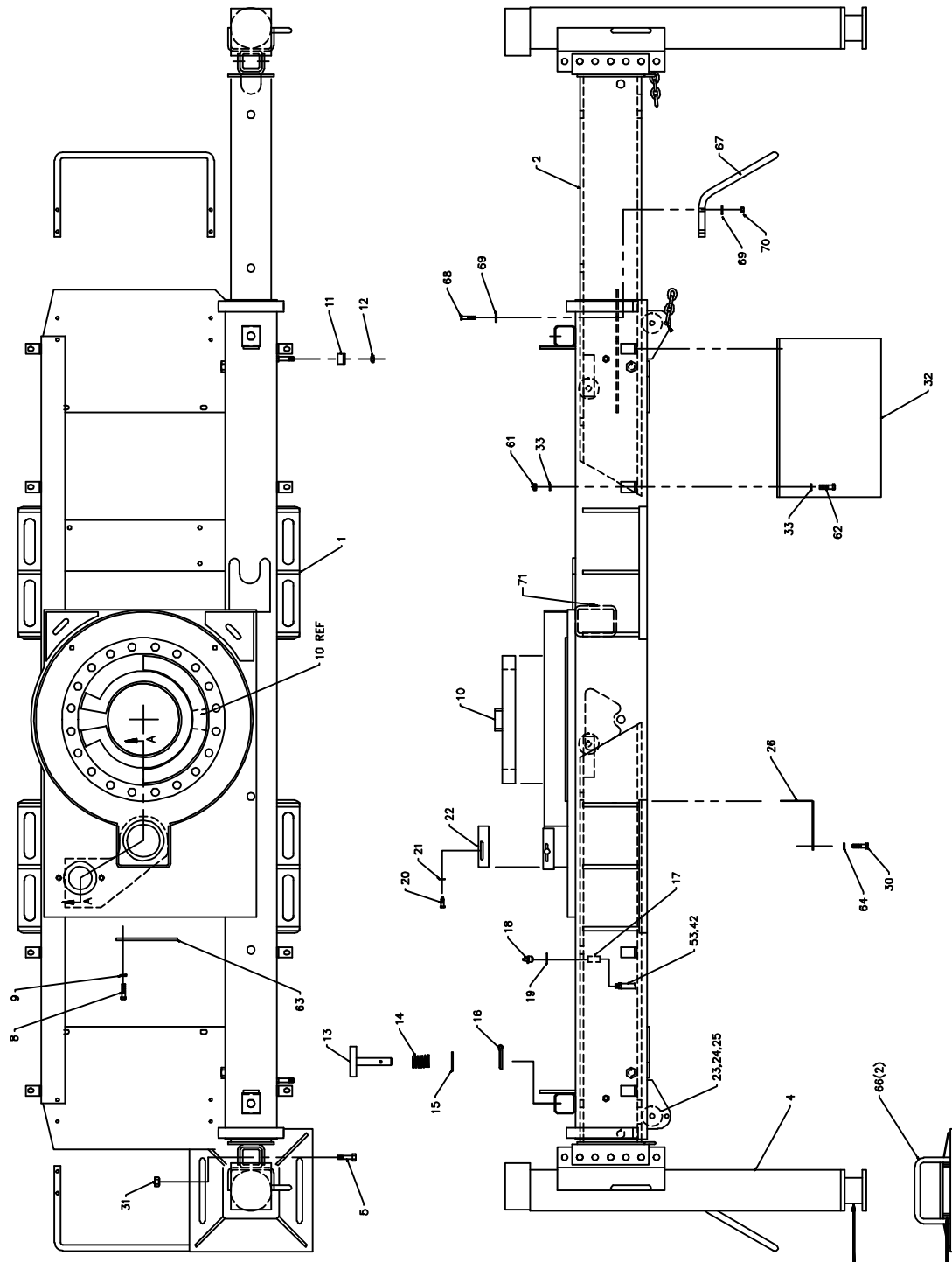
NOTE

INSTALL 70399271 - DECAL-FULLY DEPLOYED - ON TOP OF STABILIZER BEAMS WHEN BEAMS ARE FULLY EXTENDED. DECAL MUST BE VISIBLE.



OPTION-BASE & MO BOLT-ON STABILIZER ASM (41710980-2)

NOTE:
APPLY MOBILTAC 375 NC LUBRICANT (OR EQUIVA-
LENT) TO THE EXTERNAL TEETH OF THE TURNTABLE
BEARING AND PINION GEAR.



**BASE/TUBE STAB ASM
FOR POWER STABILIZERS (41710937-1)**

ITEM	PART NO.	DESCRIPTION	QTY
1.	52710894	BASE WELDMENT	1
2.	52710887	STABILIZER ARM WELDMENT	2
3.	52705871	STABILIZER LEG	2
4.	3B140920	CYL-PWR DWN	2
5.	72060102	CAP SCR .50-13 X 5.50 HH GR5	4
6.	72066125	RING-RETAINING 1"	4
7.	60106968	PIN	2
8.	72060002	CAP SCR .25-20 X .75 HH GR5	2
9.	72063049	WASHER-LOCK .25	2
10.	71145016	STOP BLOCK-SLIDING (CASTING)	1
11.	60107648	CLAMP-HOSE SMALL	2
12.	72062103	NUT-HEX .38-16 LOC	2
17.	72053301	COUPLING .12 NPT	2
18.	72053508	ZERK-GREASE .12 NPT	2
19.	72063003	WASHER-WRT .38	2
20.	72060833	SCREW-SELFTAPPING .31-18 X .75 HH	2
21.	72063002	WASHER-WRT .31	2
22.	60010235	COVER-PINION	1
23.	60030053	ROLLER .50 X 2 X 1.38 LG	4
24.	60106314	PIN-TYPE O .50 X 2.75 (2.5)	4
25.	72066178	PIN-COTTER .12 X 1	8
26.	60102769	GUARD	1
30.	72060023	CAP SCR .31-18 X .75 HH GR5	2
31.	72062107	NUT-CTR LCK .50-13	4
32.	70732573	RESERVOIR ASM	1
33.	72063003	WASHER-WROUGHT .38	8
34.	73540004	MOTOR ASM W/CB	1
38.	72062080	NUT-LOCK .50-13 HEX	2
39.	60106032	STUD-BRK/MTR .50-13 X 2	2
40.	72063608	ZERK GREASE .12	1
41.	71056265	GEAR-PINION	1
42.	53000713	EXT-GREASE 38"	1
43.	71056627	GEAR-TURNTABLE BEARING	1
44.	71056264	GEAR-INTERMEDIATE	1
45.	60106886	SPACER-PINION GEAR	1
46.	72063039	BUSHING-MACH 2 X 10 GA NR	1
47.	72066095	RING-RETAINING EXT 2 STD	1
48.	72601691	CAP SCR .75-10 X 3.0 SH	20
49.	72063116	WASHER-FLAT .75 HRDND	20
50.	72060091	CAP SCR .50-13 X 1.00 HH GR5	2
51.	72063053	WASHER-LOCK .50	2
52.	72063281	ELBOW-ST BLK .12 X 90	1
53.	53000714	EXTENSION-GREASE 10"	1
54.	60010844	PLATE-GREASE	1
55.	60020116	BUSHING-B148 ROTATION (PART OF 1)	1REF
56.	71056011	GEAR-DRIVE (PART OF 1)	1REF
57.	60020115	BUSHING-B148 ROTATION (PART OF 1)	1REF
58.	60020188	BUSHING-BTM PINION GEAR (PART OF 1)	1REF
59.	60020187	BUSHING-BASE (PART OF 1)	1REF
60.	72531826	BUSHING-RDUCER STL .25 NPT X .12 NPT	1
61.	72062103	NUT-LOCK .38-16	4
62.	72060046	CAP SCR .38-16 X 1 HH GR5	4
63.	60102767	COVER	1
64.	72063050	WASHER-LOCK .31	2
66.	60119748	CONTROL HANDLE GUARD	2
67.	72060005	CAP SCR .25-20 X 1.25 HH GR5	8
68.	72063001	WASHER .25 W FLAT	16
69.	72062104	NUT .25-20 HEX SELF LOCK	8
70.	89044331	LOOM - .35 ID BULK	5.667

WARNING

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

CAUTION

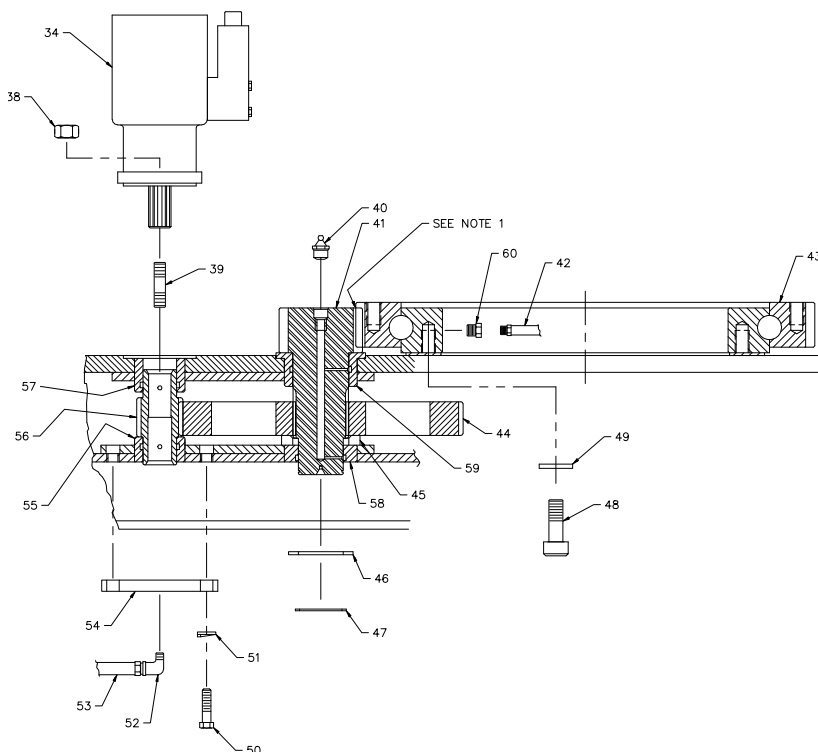
BEFORE TIGHTENING TURNTABLE BEARING BOLTS, REFER TO THE TURNTABLE BEARING FASTENER TIGHTENING SEQUENCE AND TORQUE DATA CHART IN THE REFERENCE SECTION.

NOTE

TURNTABLE BEARING BACKLASH = .006"-.010" (.152-.254mm)

NOTE

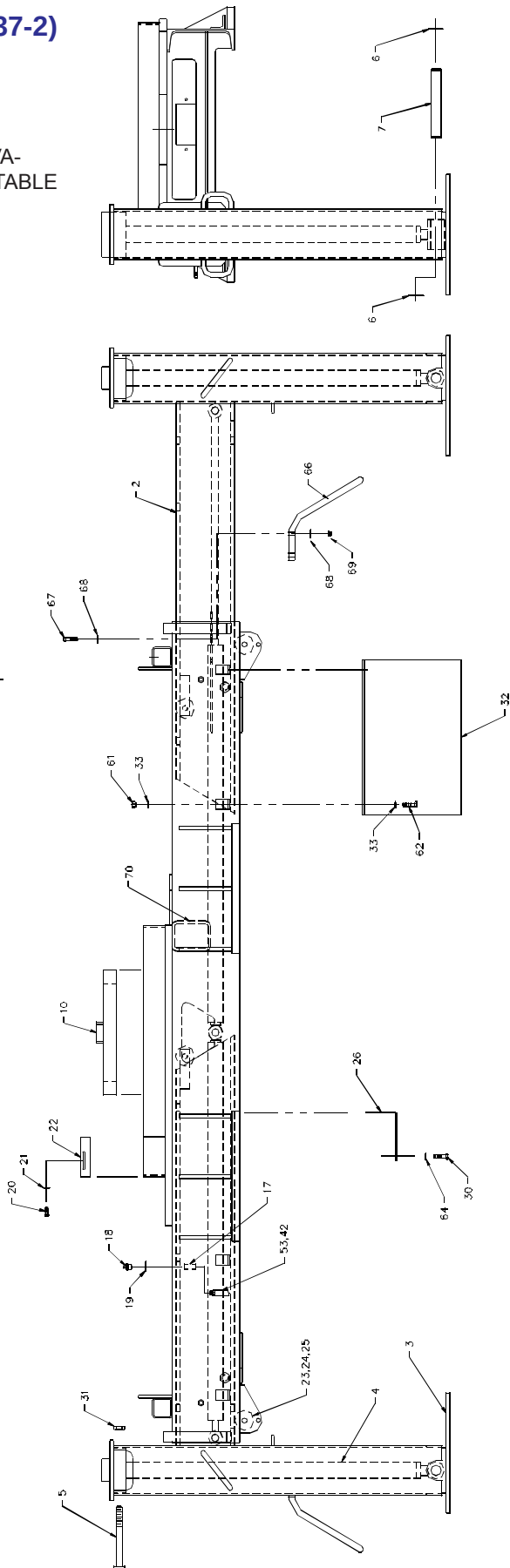
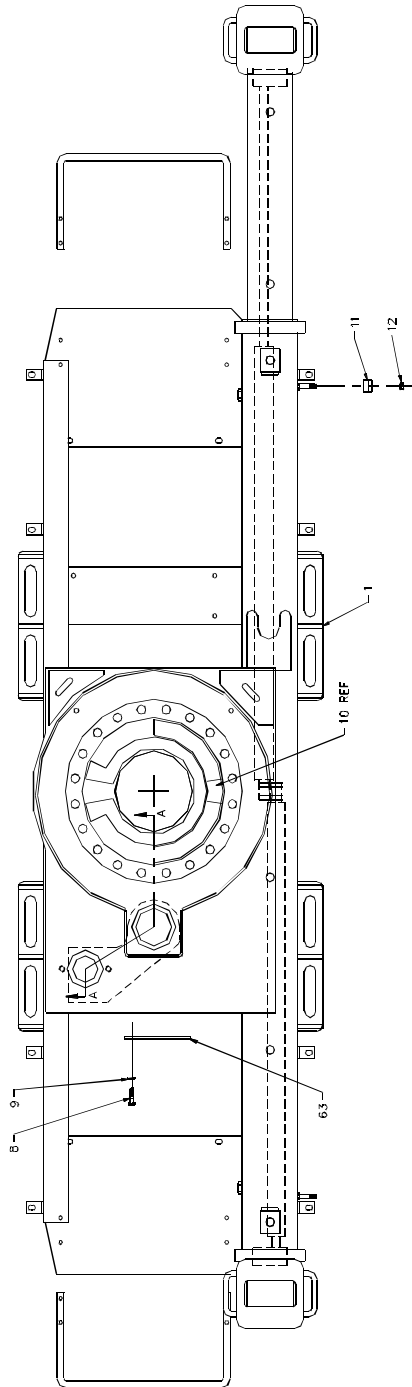
INSTALL 70399271 - DECAL-FULLY DEPLOYED - ON TOP OF STABILIZER BEAMS WHEN BEAMS ARE FULLY EXTENDED. DECAL MUST BE VISIBLE.



BASE/TUBE STAB ASM FOR POWER STABILIZERS (41710937-2)

NOTE:

APPLY MOBILTAC 375 NC LUBRICANT (OR EQUIVALENT) TO THE EXTERNAL TEETH OF THE TURNTABLE BEARING AND PINION GEAR.



PWR DN STABILIZER CYLINDER-STD (3B140920)

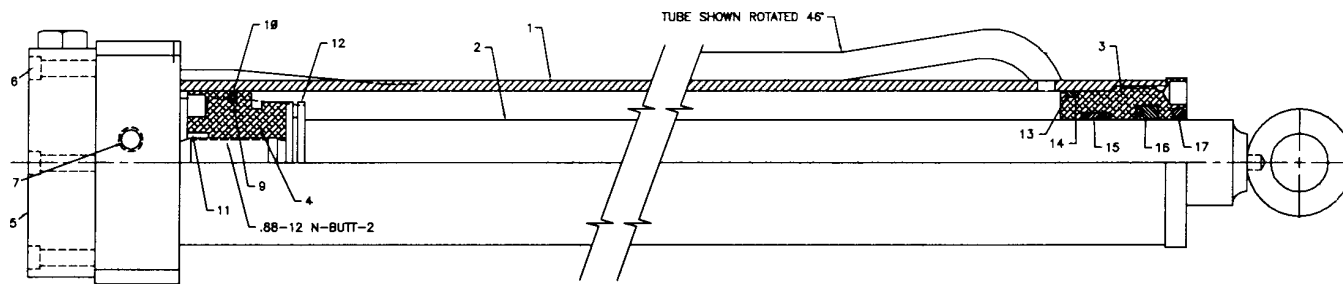
ITEM	PART NO.	DESCRIPTION	QTY
1.	4B221850	CASE ASM (INCL:7)	1
2.	2G221850	ROD ASM	1
3.	6H025015	HEAD	1
4.	6I025087	PISTON	1
5.	73054004	VALVE	1
6.	72060708	CAP SCR 1/4-20X1-1/4 SH	6
7.	7PNPXT02	PLUG (PART OF 1)	3REF
8.	9B101214	SEAL KIT (INCL:9-17)	1
9.	7Q072137	O-RING (PART OF 8)	1REF
10.	7T66P025	PISTON SEAL (PART OF 8)	1REF
11.	7T61N087	LOCK RING SEAL (PART OF 8)	1REF
12.	6A025015	WAFER LOCK (PART OF 8)	1REF
13.	7Q072228	O-RING (PART OF 8)	1REF
14.	7Q10P228	BACK-UP RING (PART OF 8)	1REF
15.	7T2N8015	WEAR RING (PART OF 8)	1REF
16.	7R546015	ROD SEAL (PART OF 8)	1REF
17.	7R14P015	ROD WIPER (PART OF 8)	1REF

NOTE

IT IS RECOMMENDED THAT ALL COMPONENTS OF THE SEAL KIT BE REPLACED WHENEVER THE CYLINDER IS DISASSEMBLED. THIS WILL REDUCE FUTURE DOWNTIME.

APPLY "LUBRIPLATE #630-2" MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT OR EQUIVALENT TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS, NYLON LOCK RING, CAST IRON PISTON RINGS, AND ROD STINGER THREADS.

APPLY "NEVER-SEEZ" REGULAR GRADE ANTI-SEIZE AND LUBRICATING COMPOUND TO CYLINDER HEAD AND CASE THREADS. KEEP AWAY FROM ALL SEALS.



OPTION-PWR OUT STABILIZER CYLINDER (3A190920)

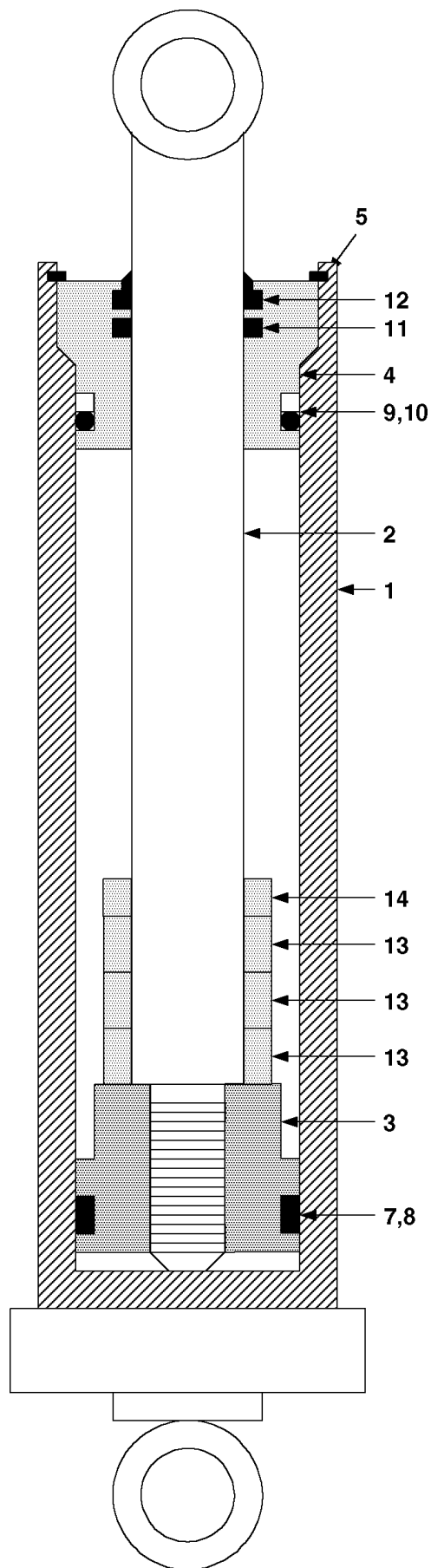
ITEM	PART NO.	DESCRIPTION	QTY
1.	4B190920	CASE ASM	1
2.	4G190920	ROD ASM	1
3.	6I012050	PISTON	1
4.	6H012007	HEAD	1
5.	72066029	RETAINING RING	1
6.	9B050608	SEAL KIT (INCL:7-12)	1
7.	7T66P012	PISTON SEAL (PART OF 6)	1REF
8.	7Q072021	O-RING (PART OF 6)	1REF
9.	7Q072214	O-RING (PART OF 6)	1REF
10.	7Q10P214	BACK-UP RING (PART OF 6)	1REF
11.	7R100750	U-CUP SEAL (PART OF 6)	1REF
12.	7R13P007	ROD WIPER (PART OF 6)	1REF
13.	6C125007	STOP TUBE 1-1/4	3
14.	6C075007	STOP TUBE 3/4	1

NOTE

IT IS RECOMMENDED THAT ALL COMPONENTS OF THE SEAL KIT BE REPLACED WHENEVER THE CYLINDER IS DISASSEMBLED. THIS WILL REDUCE FUTURE DOWNTIME.

APPLY "LUBRIPLATE #630-2" MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT OR EQUIVALENT TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS, NYLON LOCK RING, CAST IRON PISTON RINGS, AND ROD STINGER THREADS.

APPLY "NEVER-SEEZ" REGULAR GRADE ANTI-SEIZE AND LUBRICATING COMPOUND TO CYLINDER HEAD AND CASE THREADS.



OPTION-PWR DN BOLT-ON STABILIZER CYLINDER (3B197920)

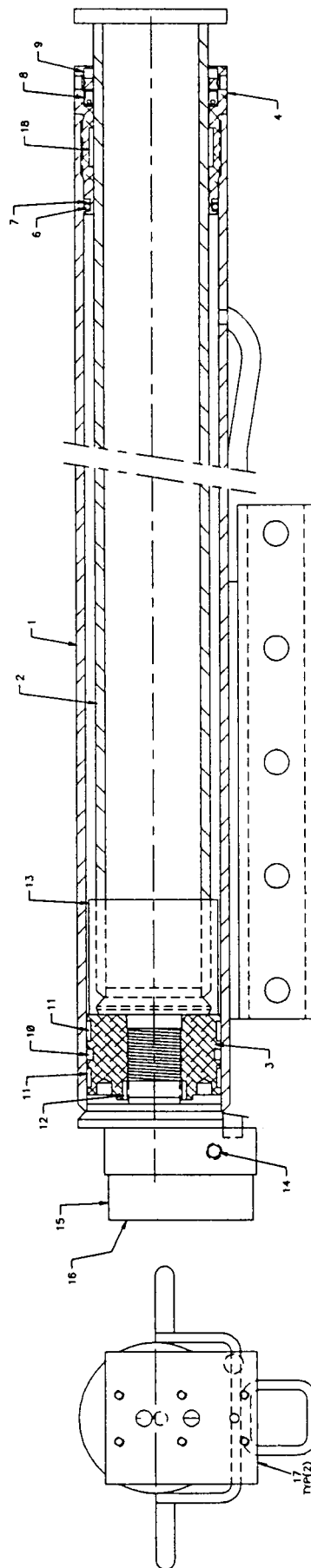
ITEM	PART NO.	DESCRIPTION	QTY
1.	4B197920	CASE ASM (INCL:14)	1
2.	4H197920	ROD ASM	1
3.	6I352144	PISTON	1
4.	6H352300	HEAD	1
5.	9C197920	SEAL KIT (INCL:6-12,18)	1
6.	7Q072338	O-RING (PART OF 5)	1REF
7.	7Q10P338	BACK-UP RING (PART OF 5)	1REF
8.	7R546030	U-CUP SEAL (PART OF 6)	1REF
9.	7R14P030	ROD WIPER (PART OF 5)	1REF
10.	7T66P350	PISTON SEAL (PART OF 5)	1REF
11.	7T2N4035	WEAR RING (PART OF 5)	2REF
12.	7T61N143	LOCK RING (PART OF 5)	1REF
13.	6C197920	STOP TUBE 3"	1
14.	7PNPXT02	PLUG 1/8NPT (PART OF 1)	4REF
15.	73054004	VALVE	1
16.	72060708	CAP SCR 1/4-20X1-1/4 SH	6
17.	72532992	ADAPTER #4MSTR #6FSTR	2
18.	7T2N8032	ROD WEAR RING (PART OF 5)	1REF

NOTE

IT IS RECOMMENDED THAT ALL COMPONENTS OF THE SEAL KIT BE REPLACED WHENEVER THE CYLINDER IS DISASSEMBLED. THIS WILL REDUCE FUTURE DOWNTIME.

APPLY "LUBRIPLATE #630-2" MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT OR EQUIVALENT TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS, NYLON LOCK RING, CAST IRON PISTON RINGS, AND ROD STINGER THREADS.

APPLY "NEVER-SEEZ" REGULAR GRADE ANTI-SEIZE AND LUBRICATING COMPOUND TO CYLINDER HEAD AND CASE THREADS.



MAST ASM (41710870)

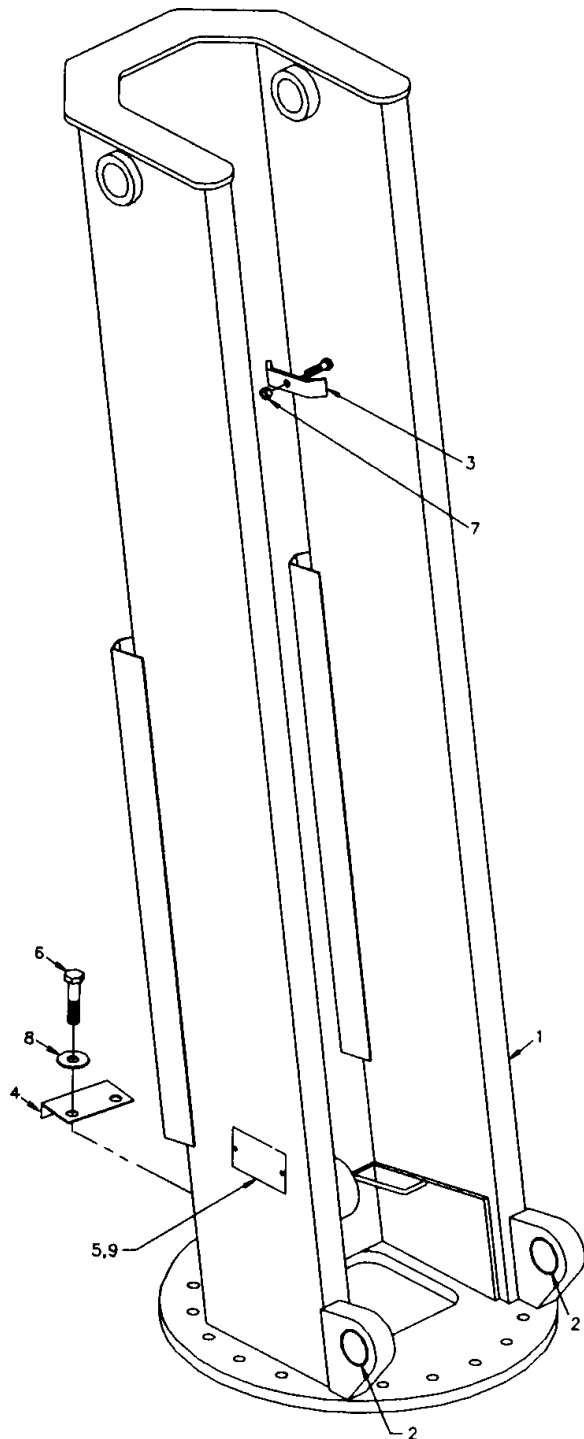
ITEM	PART NO.	DESCRIPTION	QTY
1.	52710871	MAST (INCL:2)	1
2.	7BF81520	BUSHING (PART OF 1)	2REF
3.	60010118	HOSE CLAMP	2
4.	60104539	PINION GEAR COVER	1
5.	70029119	SERIAL NO. PLACARD	1
6.	72060931	CAP SCR 5/8-11X2-3/4 HH GR8	18
7.	72062103	NUT 3/8-16 LOCK	2
8.	72063119	WASHER 5/8 FLAT HARD	18
9.	72066340	POP RIVET 1/8	2

WARNING

ANYTIME A GEAR-BEARING BOLT IS REMOVED, IT MUST BE REPLACED WITH A NEW BOLT OF THE IDENTICAL GRADE AND SIZE. FAILURE TO REPLACE GEAR-BEARING BOLTS MAY RESULT IN BOLT FAILURE DUE TO METAL FATIGUE, CAUSING SERIOUS INJURY OR DEATH.

CAUTION

BEFORE TIGHTENING TURNTABLE BEARING BOLTS, REFER TO THE TURNTABLE BEARING FASTENER TIGHTENING SEQUENCE AND TORQUE DATA CHART IN THE REFERENCE SECTION.

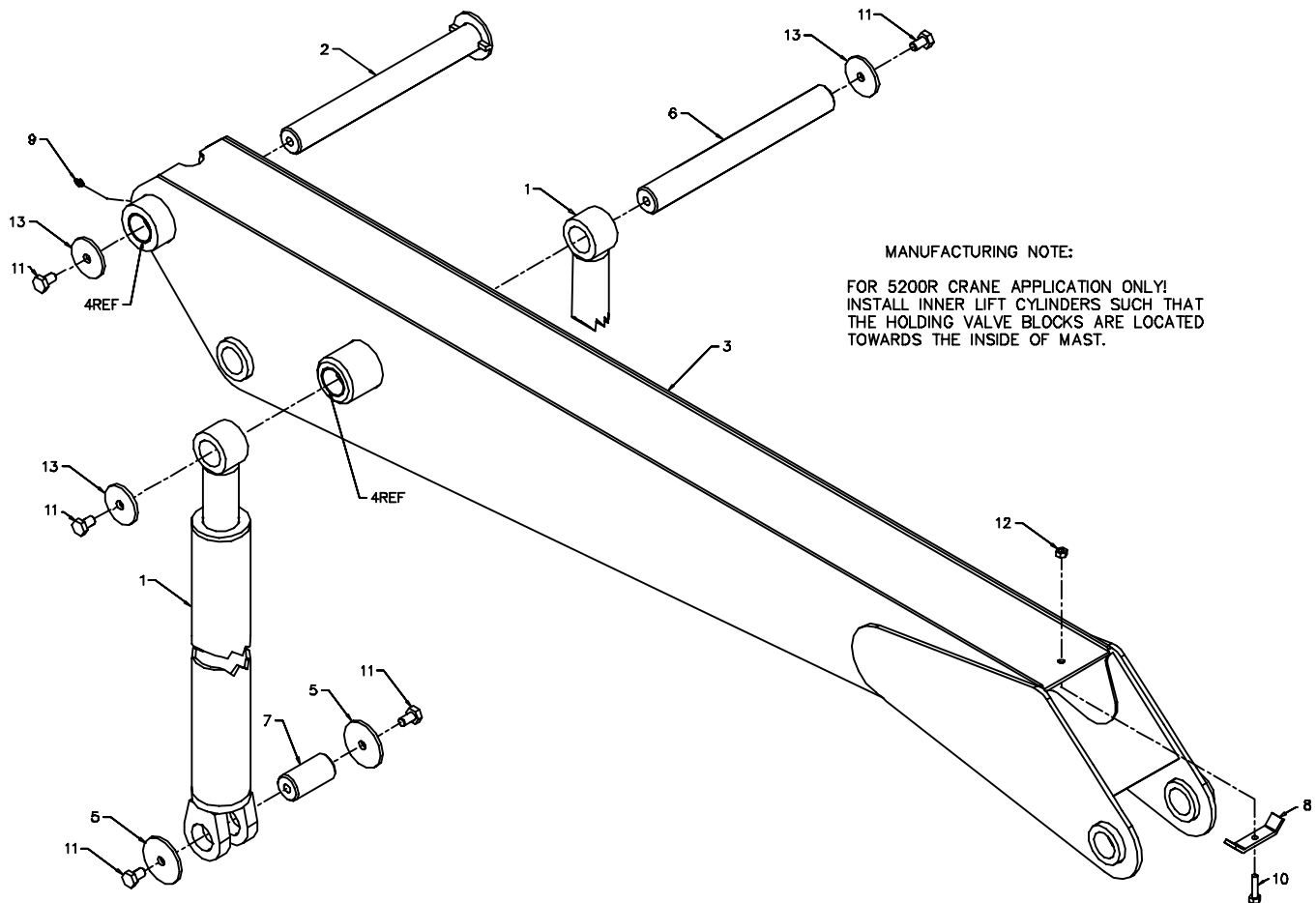


INNER BOOM ASM (41710920)

1.	3B270000	INNER CYLINDER	2
2.	52704342	PIN	1
3.	52710909	INNER BOOM (INCL:4)	1
4.	7BF81220	BUSHING (PART OF 3)	12REF
5.	60106331	PIN RETAINER PLATE	4
6.	60107303	PIN	1
7.	60107305	PIN	2
8.	60010118	HOSE CLAMP	1
9.	72053508	ZERK 1/8NPT	1
10.	72060049	CAP SCR 3/8-16X1-3/4 HH GR5	1
11.	72060147	CAP SCR 5/8-11X1 HH GR5	7
12.	72062103	NUT 3/8-16 LOCK	1
13.	60109337	PIN RETAINER PLATE	3

NOTE

ANYTIME THE PIN RETAINER PLATE BOLTS HAVE BEEN REMOVED, APPLY LOCTITE® 262 TO THE THREADS BEFORE RE-ASSEMBLY.



INNER BOOM CYLINDER (3B270000)

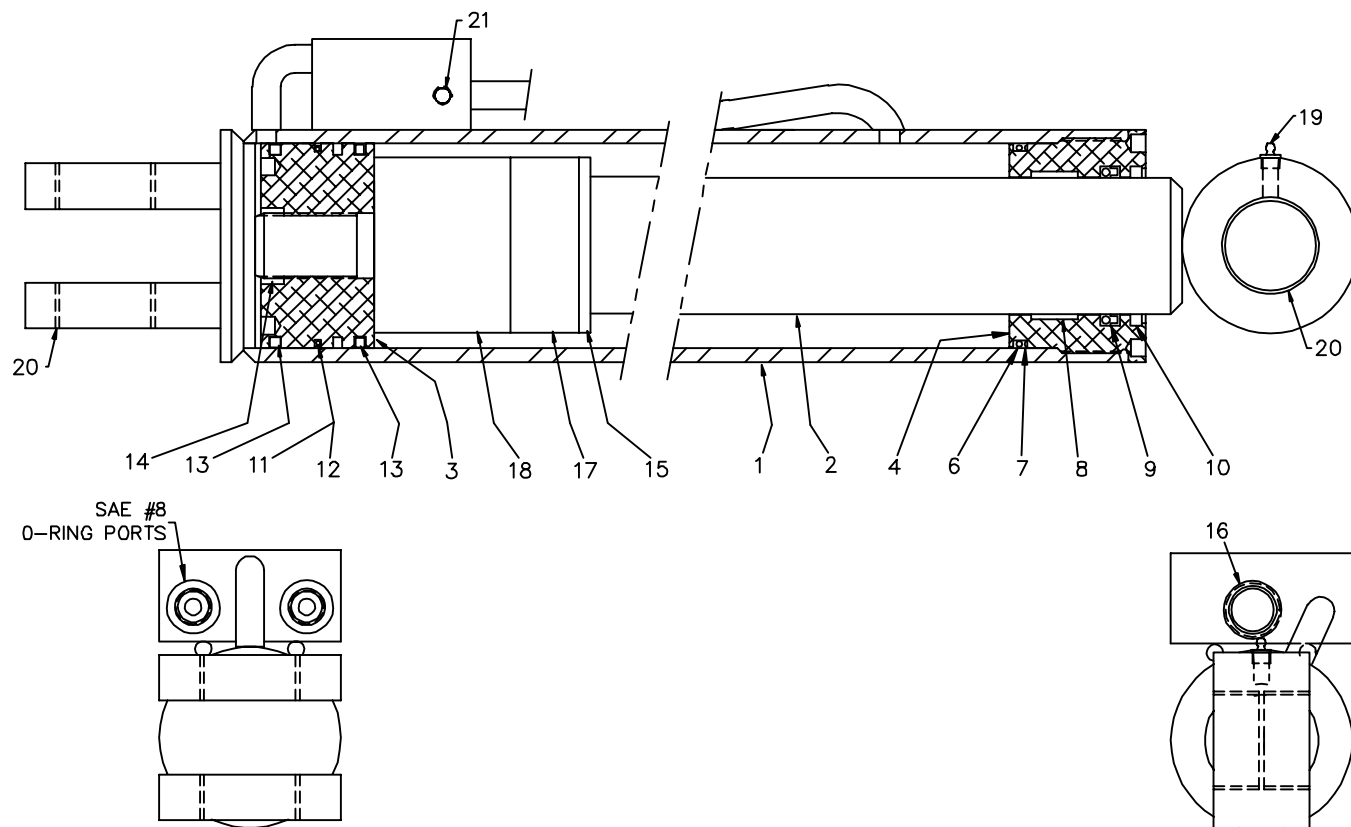
1.	4B142920	CASE ASM (INCL: 20 & 21)	1
2.	4H142920	ROD ASM (INCL: 19 & 20)	1
3.	6I035125	PISTON	1
4.	6H035025	HEAD	1
5.	9C142020	SEAL KIT (INCL:6-15)	1
6.	7Q072338	O-RING (PART OF 5)	1REF
7.	7Q10P338	BACK-UP RING (PART OF 5)	1REF
8.	7T2N8027	WEAR RING (PART OF 5)	1REF
9.	7R546025	ROD SEAL (PART OF 5)	1REF
10.	7R14P025	ROD WIPER (PART OF 5)	1REF
11.	7Q072151	O-RING (PART OF 5)	1REF
12.	7T66P035	PISTON SEAL (PART OF 5)	1REF
13.	7T65I035	PISTON RING (PART OF 5)	2REF
14.	7T61N125	LOCK RING (PART OF 5)	1REF
15.	6A025025	WAFER LOCK (PART OF 5)	1REF
16.	73054887	C'BAL VALVE	1
17.	6C150025	STOP TUBE	1
18.	6C300025	STOP TUBE	1
19.	72053507	ZERK 1/4-28(PART OF 2)	1REF
20.	7BF81020	BUSHING (PART OF 1 & 2)	4REF
21.	7PNPXT02	PLUG 1/8NPT (PART OF 1)	3REF

NOTE

IT IS RECOMMENDED THAT ALL COMPONENTS OF THE SEAL KIT BE REPLACED WHENEVER THE CYLINDER IS DISASSEMBLED. THIS WILL REDUCE FUTURE DOWNTIME.

APPLY "LUBRIPLATE #630-2" MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT OR EQUIVALENT TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS, NYLON LOCK RING, CAST IRON PISTON RINGS, AND ROD STINGER THREADS.

APPLY "NEVER-SEEZ" REGULAR GRADE ANTI-SEIZE AND LUBRICATING COMPOUND TO CYLINDER HEAD AND CASE THREADS.

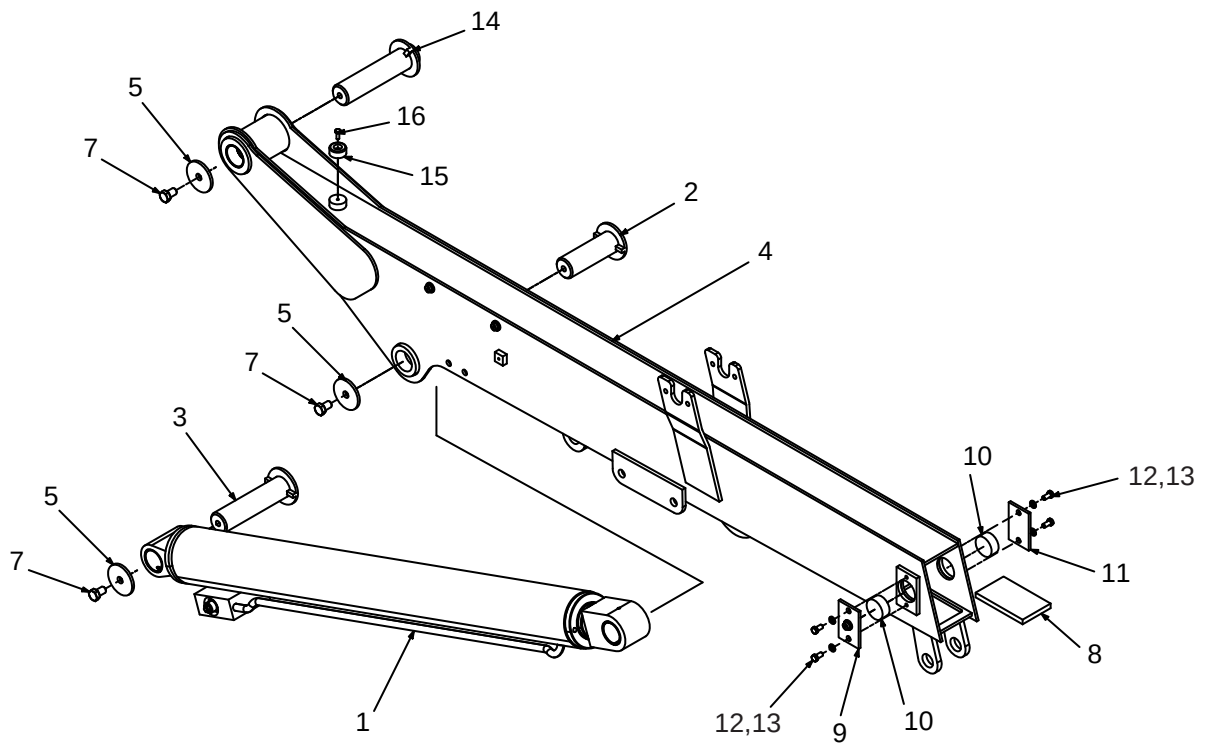


OUTER BOOM ASM (41710914)

ITEM	PART NO.	DESCRIPTION	QTY
1.	3C180920	OUTER CYLINDER	1
2.	52704432	PIN	1
3.	52704341	PIN	1
4.	52710916	OUTER BOOM (INCL:5)	1
5.	60109337	PIN RETAINER PLATE 3"	3
6.	72053508	ZERK 1/8NPT	2
7.	72060147	CAP SCR 5/8-11X1 HH GR5	3
8.	60030175	WEAR PAD	1
9.	52724660	PLATE W/TAPPED BLOCK	1
10.	60030060	WEAR PAD	2
11.	60107550	LOCK PLATE	2
12.	72063051	WASHER 3/8 LOCK	4
13.	72060044	CAP SCR 3/8-16X3/4 HH GR5	4
14.	52703767	PIN	1
15.	70392190	BUMPER	1
16.	72060002	CAP SCR 1/4-20X3/4 HHGR5	1

NOTE

ANYTIME THE PIN RETAINER PLATE BOLTS HAVE BEEN REMOVED, APPLY LOCTITE® 262 TO THE THREADS BEFORE RE-ASSEMBLY.



OUTER BOOM CYLINDER (3C180920)

ITEM	PART NO.	DESCRIPTION	QTY
1.	4C258870	CASE ASM (INCL:20-22)	1
2.	52718647	ROD (INCL:19,21) (WAS 4H180920)	1
3.	6I045143	PISTON	1
4.	6H045030	HEAD	1
5.	9C182423	SEAL KIT (INCL:6-14,18)	1
6.	7Q072345	O-RING (PART OF 5)	1REF
7.	7Q10P346	BACK-UP RING (PART OF 5)	1REF
8.	7T2N8032	ROD WEAR RING (PART OF 5)	1REF
9.	7R546030	U-CUP SEAL (PART OF 5)	1REF
10.	7R14P030	ROD WIPER (PART OF 5)	1REF
11.	7Q072155	O-RING (PART OF 5)	1REF
12.	7T66P045	PISTON SEAL (PART OF 5)	1REF
13.	7T65I045	PISTON RING (PART OF 5)	2REF
14.	7T61N143	LOCK RING (PART OF 5)	1REF
15.	73054242	VALVE 25GPM	2REF
16.	6C150030	STOP TUBE 1-1/2	1
17.	6C300030	STOP TUBE 3	1
18.	60138277	STOP TUBE (PART OF 5) (WAS 6A025030)	1REF
19.	7BF81220	BUSHING (PART OF 2)	2REF
20.	7BF81520	BUSHING (PART OF 1)	2REF
21.	72053507	ZERK 1/4-28 (PART OF 1 & 2)	2REF
22.	7PNPXT02	PLUG 1/8NPT (PART OF 1)	2REF
23.	60125699	PIN-LOCK TUBE	1

NOTE

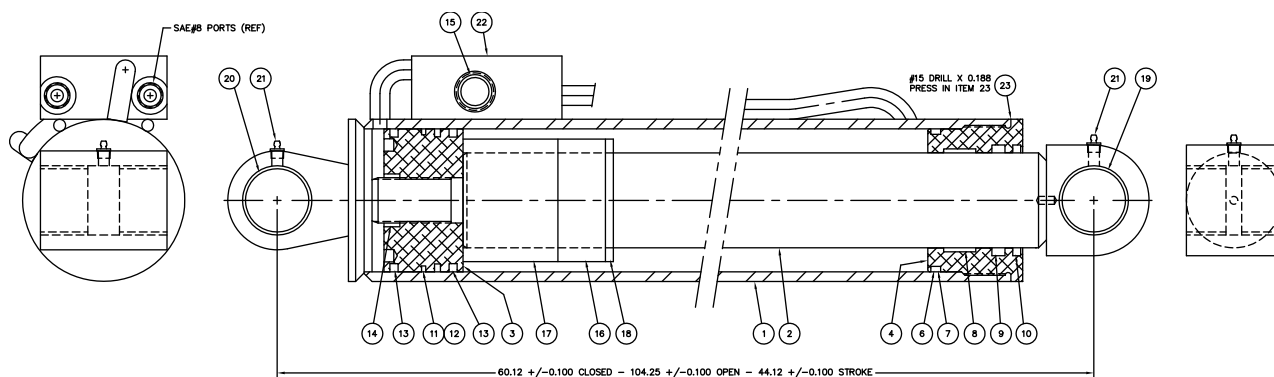
IT IS RECOMMENDED THAT ALL COMPONENTS OF THE SEAL KIT BE REPLACED WHENEVER THE CYLINDER IS DISASSEMBLED. THIS WILL REDUCE FUTURE DOWNTIME.

APPLY "LUBRIPLATE #630-2" MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT OR EQUIVALENT TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS, NYLON LOCK RING, CAST IRON PISTON RINGS, AND ROD STINGER THREADS.

APPLY "NEVER-SEEZ" REGULAR GRADE ANTI-SEIZE AND LUBRICATING COMPOUND TO CYLINDER HEAD AND CASE THREADS.

ITEM #18, STOP TUBE, REPLACES 6A025030 WAFER LOCK. USE STOP TUBE INSTEAD OF WAFER LOCK WHEN RESEALING CYLINDER.

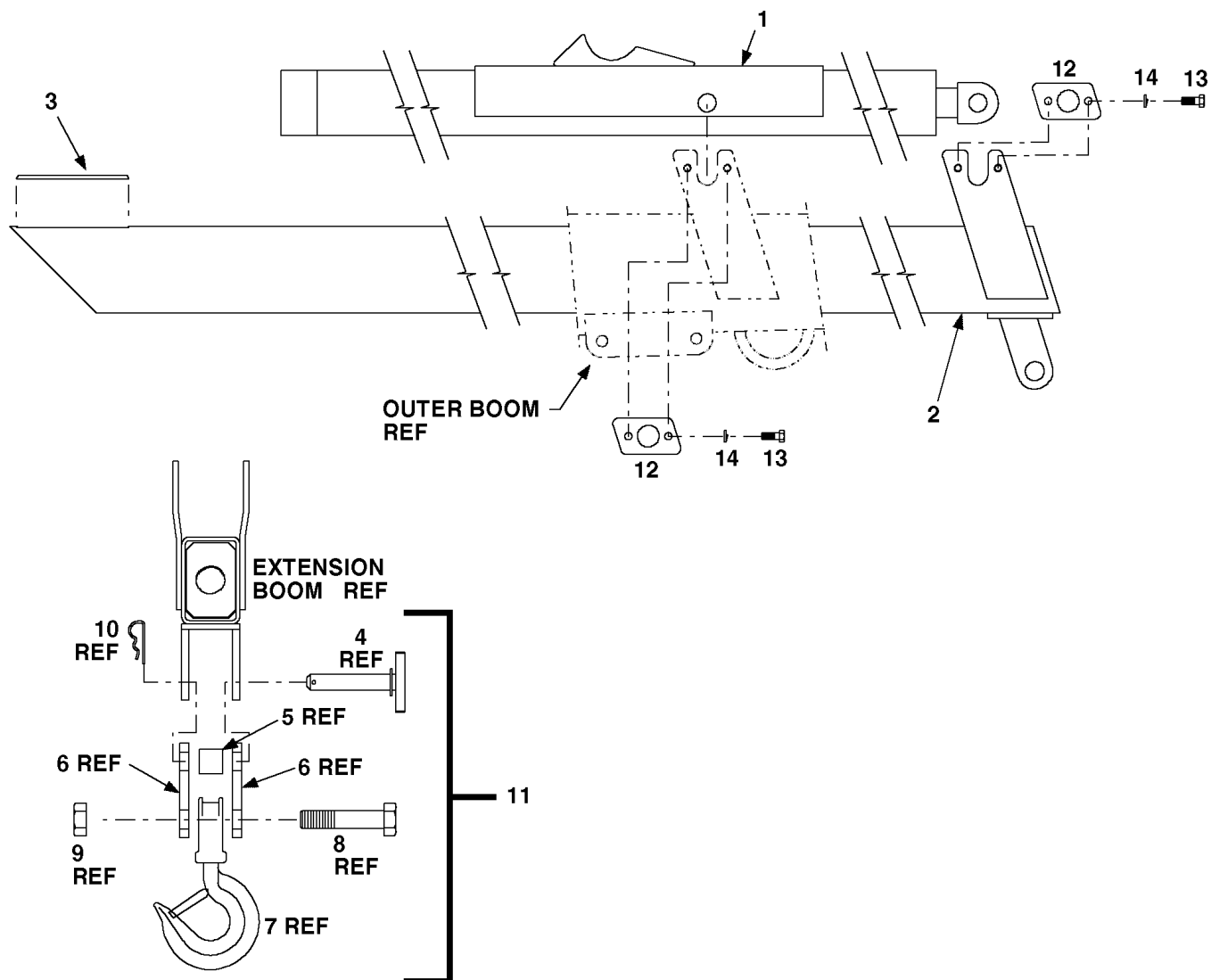
PRESS LOCKING PIN (ITEM #23) INTO #15 HOLE DRILLED 0.188" DEEP.



EXTENSION BOOM ASM-1H (41710943)

ITEM	PART NO.	DESCRIPTION	QTY
1.	3B200920	EXTENSION CYLINDER-1H	1
2.	52710942	1ST STG EXTENSION BOOM	1
3.	60030238	WEAR PAD-BVLD	1
4.	52705801	PIN (PART OF 11)	1REF
5.	60108902	PIPE (PART OF 11)	1REF
6.	60107324	HOOK LINK (PART OF 11)	2REF
7.	70734177	SWIVEL HOOK 7-TON	

8.	72601666	(PART OF 11) CAP SCR 1 1/4-7X4 HH GR5	1REF
9.	72062073	(PART OF 11) NUT 1 1/4-7 LOCK (PART OF 11)	1REF
10.	72066145	HAIR PIN 3/16 (PART OF 11)	1REF
11.	51706200	HOOK ASM (INCL:4-10)	1
12.	60107292	LOCK PLATE	4
13.	72060091	CAP SCR 1/2-13X1 HH GR5	8
14.	72063053	WASHER 1/2 LOCK	8



EXTENSION BOOM CYLINDER-1H (3B200920)

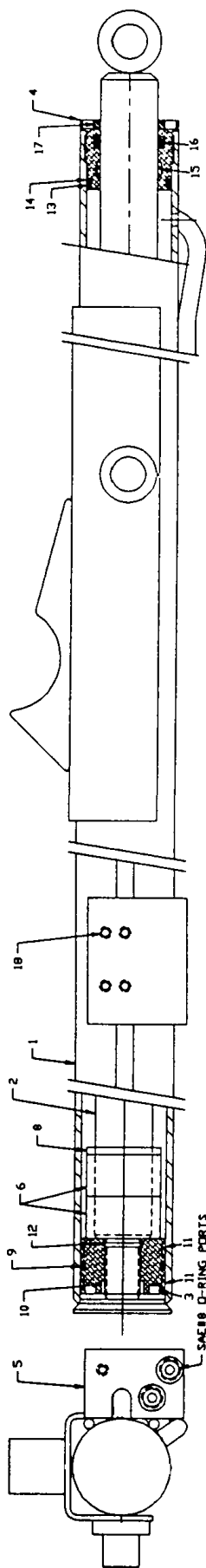
ITEM	PART NO.	DESCRIPTION	QTY
1.	4B200920	CASE ASM (INCL: 18)	1
2.	4G200920	ROD ASM	1
3.	6I302125	PISTON	1
4.	6H030020	HEAD	1
5.	73054242	COUNTERBALANCE VALVE	2
6.	6C150020	STOP TUBE	2
7.	9C156920	SEAL KIT (INCL:8-17)	1
8.	6A025020	WAFFER LOCK (PART OF 7)	1REF
9.	7T66P300	PISTON SEAL (PART OF 7)	1REF
10.	7T61N125	LOCK RING (PART OF 7)	1REF
11.	7T2N4030	WEAR RING (PART OF 7)	2REF
12.	7Q072124	O-RING (PART OF 7)	1REF
13.	7Q072334	O-RING (PART OF 7)	1REF
14.	7Q10P334	BACKUP RING (PART OF 7)	1REF
15.	7T2N4022	ROD WEAR RING (PART OF 7)	1REF
16.	7R546020	U-CUP SEAL (PART OF 7)	1REF
17.	7R14P020	ROD WIPER (PART OF 7)	1REF
18.	7PNPXT02	PLUG 1/8NPT (PART OF 1)	8REF

NOTE

IT IS RECOMMENDED THAT ALL COMPONENTS OF THE SEAL KIT BE REPLACED WHENEVER THE CYLINDER IS DISASSEMBLED. THIS WILL REDUCE FUTURE DOWNTIME.

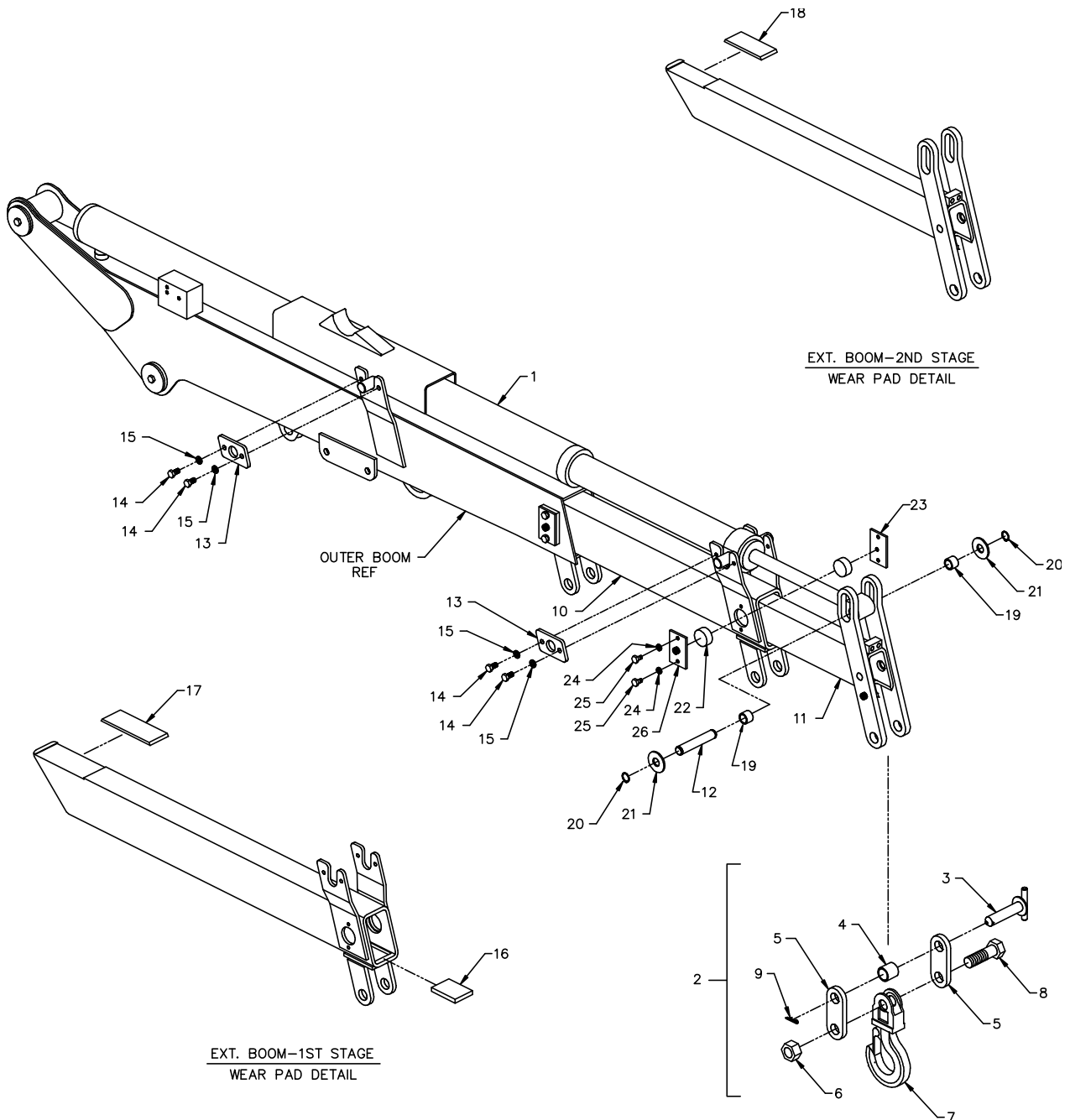
APPLY "LUBRIPLATE #630-2" MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT OR EQUIVALENT TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS, NYLON LOCK RING, CAST IRON PISTON RINGS, AND ROD STINGER THREADS.

APPLY "NEVER-SEEZ" REGULAR GRADE ANTI-SEIZE AND LUBRICATING COMPOUND TO CYLINDER HEAD AND CASE THREADS.



EXTENSION BOOM ASM-2H (41710939)

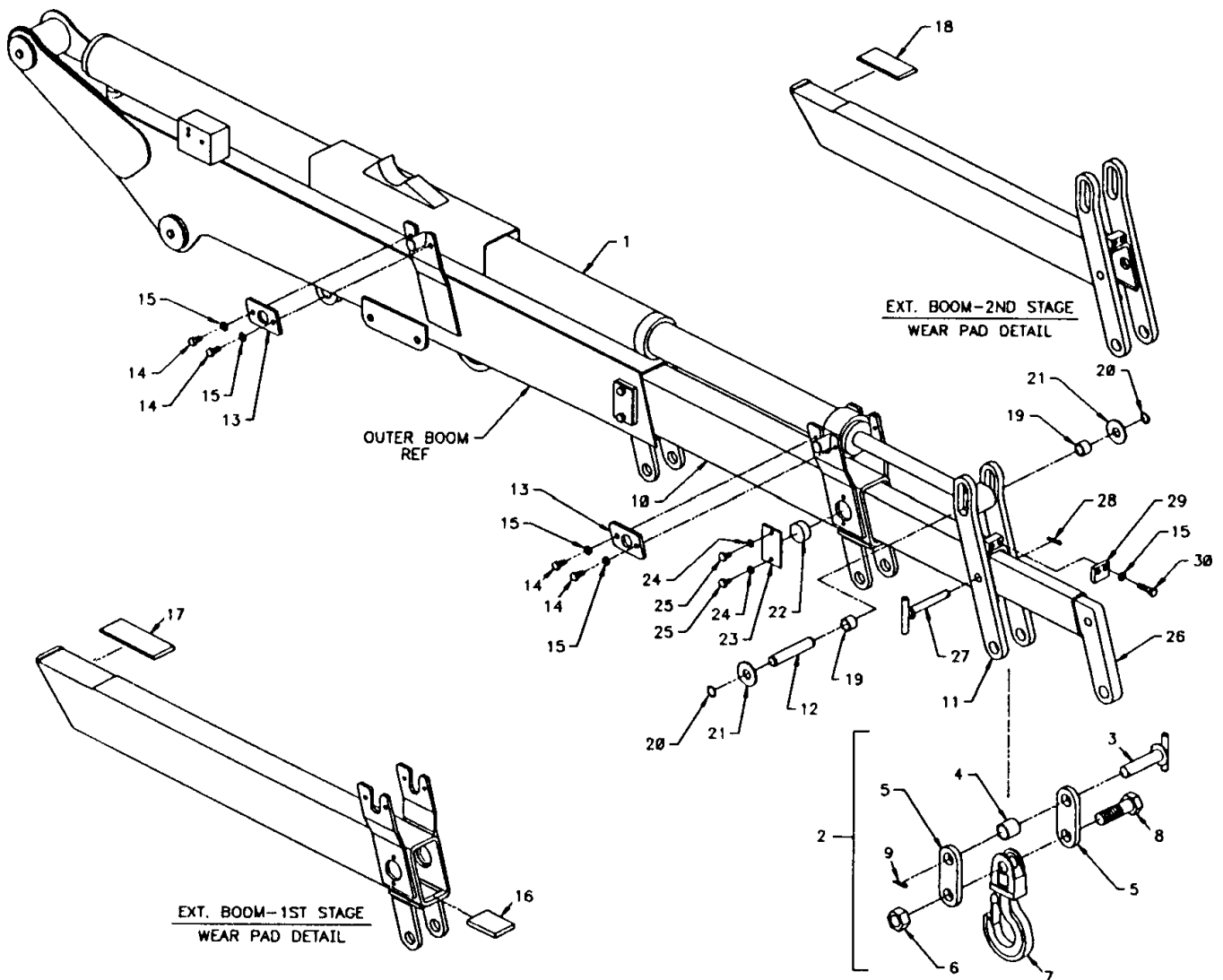
ITEM	PART NO.	DESCRIPTION	QTY				
1.	3K185920	TELESCOPIC CYLINDER	1	12.	60101906	PIN	1
2.	51706200	HOOK ASM (INCL:3-9)	1	13.	60107292	LOCK PLATE	4
3.	52705801	PIN (PART OF 2)	1REF	14.	72060091	CAP SCR 1/2-13X1 HH GR5	8
4.	60108902	SPACER (PART OF 2)	1REF	15.	72063053	WASHER 1/2 LOCK	8
5.	60107324	HOOK LINK (PART OF 2)	2REF	16.	60030173	WEAR PAD	1
6.	72062073	NUT 1 1/4-7 LOCK (PART OF 2)	1REF	17.	60030172	WEAR PAD	1
7.	70734177	SWVL HOOK 7TON (PART OF 2)	1REF	18.	60030174	WEAR PAD	1
		(WAS 60103575)		19.	60020197	ROLLER	2
8.	72601666	CAP SCR 1 1/4-7X4 HHGR5	1REF	20.	72066125	RETAINING RING 1"	2
		(PART OF 2)		21.	72063010	WASHER 1 WRT	2
9.	72066145	HAIR PIN 3/16 (PART OF 2)	1REF	22.	60030060	WEAR PAD	2
10.	52710941	1ST STG EXT BOOM	1	23.	60107550	LOCK PLATE (WAS 2)	1
11.	52706708	2ND STG EXT BOOM	1	24.	72063051	WASHER 3/8 LOCK	4
				25.	72060044	CAP SCR 3/8-16X3/4 HH GR5	4
				26.	52724660	PLATE W/TAPPED BLOCK	1



EXTENSION BOOM ASM-2H1M (41710940)

ITEM	PART NO.	DESCRIPTION	QTY
1.	3K185920	TELESCOPIC CYLINDER	1
2.	51706200	HOOK ASM (INCL:3-9)	1
3.	52705801	PIN (PART OF 2)	1REF
4.	60108902	SPACER (PART OF 2)	1REF
5.	60107324	HOOK LINK (PART OF 2)	2REF
6.	72062073	NUT 1 1/4-7 LOCK (PART OF 2)	1REF
7.	70734177	SWVL HOOK 7TON (PART OF 2)	1REF
8.	72601666	CAP SCR 1 1/4-7X4 HHGR5 (PART OF 2)	1REF
9.	72066145	HAIR PIN 3/16 (PART OF 2)	1REF
10.	52710941	1ST STG EXT BOOM	1
11.	52706708	2ND STG EXT BOOM	1
12.	60101906	PIN	1
13.	60107292	LOCK PLATE	4

14.	72060091	CAP SCR 1/2-13X1 HHGR5	8
15.	72063053	WASHER 1/2 LOCK	10
16.	60030173	WEAR PAD	1
17.	60030172	WEAR PAD	1
18.	60030174	WEAR PAD	1
19.	60020197	ROLLER	2
20.	72066125	RETAINING RING 1"	2
21.	72063010	WASHER 1 WRT	2
22.	60030060	WEAR PAD	2
23.	60107550	LOCK PLATE	2
24.	72063051	WASHER 3/8 LOCK	4
25.	72060044	CAP SCR 3/8-16X3/4 HHGR5	4
26.	52710938	3RD STG EXT BOOM	1
27.	52704383	PIN	1
28.	72066145	HAIR PIN 3/16	1
29.	60107294	STOP	1
30.	72060094	CAP SCR 1/2-13X1-3/4 HHGR5	2



EXT BOOM CYLINDER-2H (3K185920)

ITEM	PART NO.	DESCRIPTION	QTY
1.	4K185920	CASE ASM (INCL:29)	1
2.	4H185920	CASE/ROD ASM	1
3.	4G185920	ROD ASM (INCL:30)	1
4.	4FG12085	MOUNTING RING	1
5.	6I095850	PISTON	1
6.	6I025087	PISTON	1
7.	6H271511	HEAD	1
8.	6H112820	HEAD	1
9.	6C300015	STOP TUBE 3"	1
10.	6C050015	STOP TUBE 1/2"	1
11.	73054242	VALVE	2
12.	9X095850	SEAL KIT (INCL:13-28,31)	1
13.	7R546035	U-CUP SEAL (PART OF 12)	1REF
14.	7R14P035	ROD WIPER (PART OF 12)	1REF
15.	7Q072342	O-RING (PART OF 12)	1REF
16.	7Q10P342	BACK-UP RING (PART OF 12)	1REF
17.	7Q072153	O-RING (PART OF 12)	1REF
18.	7T66P040	PISTON SEAL (PART OF 12)	1REF
19.	7Q072147	O-RING (PART OF 12)	1REF
20.	7T65I040	PISTON RING (PART OF 12)	2REF
21.	7R546015	U-CUP SEAL (PART OF 12)	1REF
22.	7R14P015	ROD WIPER (PART OF 12)	1REF
23.	7Q072228	O-RING (PART OF 12)	1REF
24.	7Q10P228	BACK-UP RING (PART OF 12)	1REF
25.	7Q072137	O-RING (PART OF 12)	1REF
26.	7T66P025	PISTON SEAL (PART OF 12)	1REF
27.	7T61N087	LOCK RING (PART OF 12)	1REF
28.	60138272	STOP TUBE (PART OF 12)	1REF
	(WAS 6A025015)		
29.	7PNPXT02	PLUG 1/8NPT (PART OF 1)	8REF
30.	72053507	ZERK 1/4-28 (PART OF 3)	1REF
31.	7T2N4037	WEAR RING (PART OF 12)	1REF
32.	7T2N8015	WEAR RING (PART OF 12)	1REF

NOTE

IT IS RECOMMENDED THAT ALL COMPONENTS OF THE SEAL KIT BE REPLACED WHENEVER THE CYLINDER IS DISASSEMBLED. THIS WILL REDUCE FUTURE DOWNTIME.

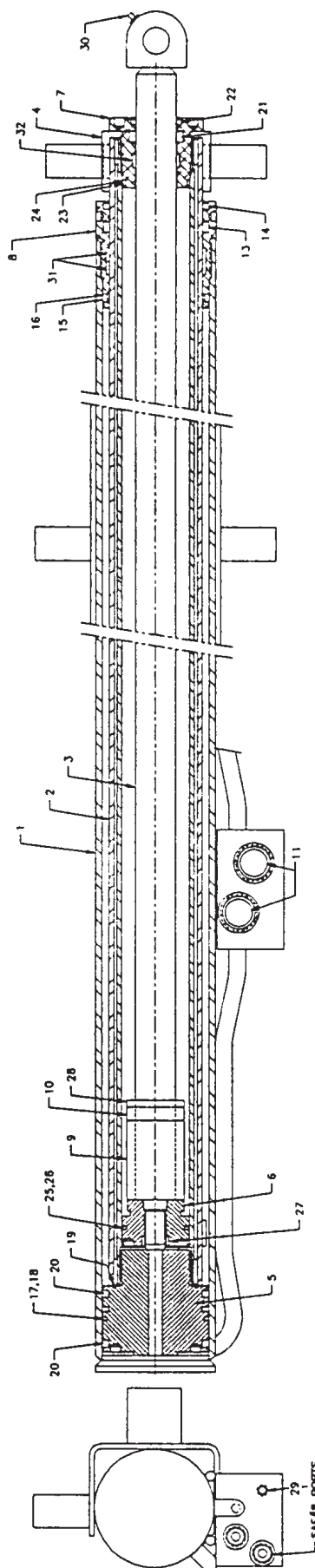
APPLY "LUBRIPLATE #630-2" MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT OR EQUIVALENT TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS, NYLON LOCK RING, CAST IRON PISTON RINGS, AND ROD STINGER THREADS.

APPLY "NEVER-SEEZ" REGULAR GRADE ANTI-SEIZE AND LUBRICATING COMPOUND TO CYLINDER HEAD AND CASE THREADS.

ITEM #28, STOP TUBE, REPLACES 6A025015 WAFER LOCK. USE STOP TUBE INSTEAD OF WAFER LOCK WHEN RESEALING CYLINDER.

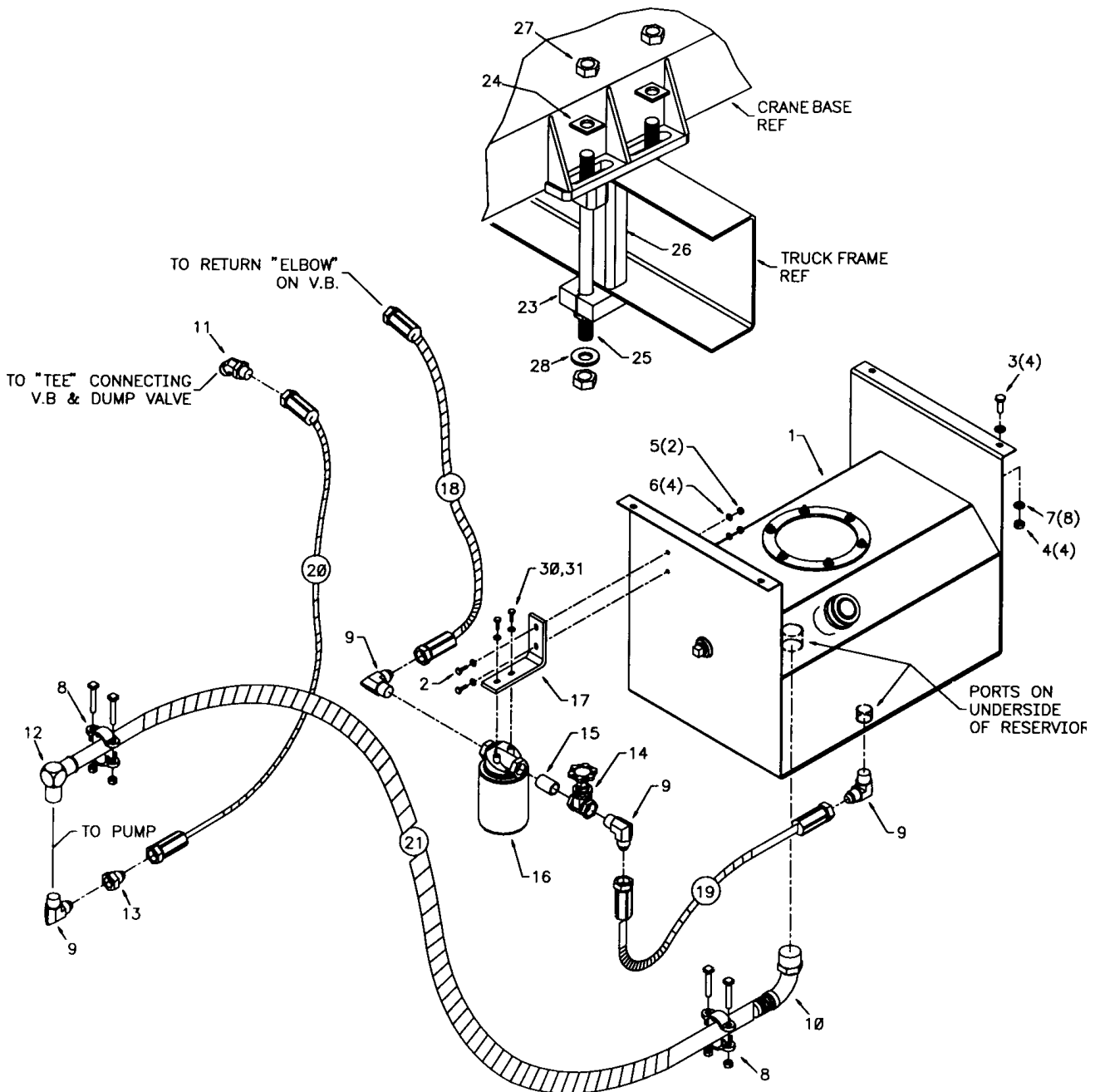
1ST STAGE CYLINDER TORQUES: PISTON: 100-130 FT-LB, HEAD: 350 FT-LB, CARTRIDGE - 30-35 FT-LB.

2ND STAGE CYLINDER TORQUES: PISTON: 100-130 FT-LB, HEAD: 250 FT-LB, CARTRIDGE - 30-35 FT-LB.



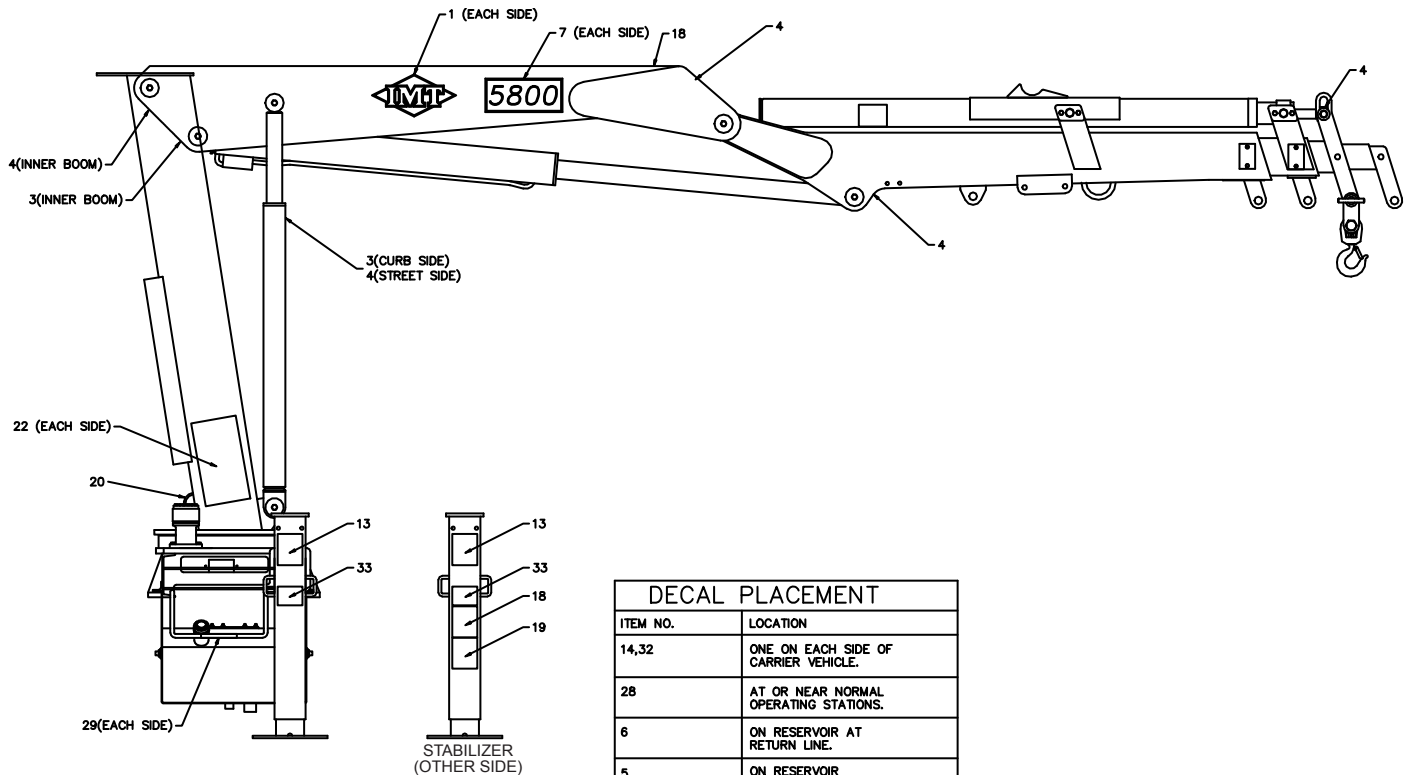
INSTALLATION KIT (93704355)

ITEM	PART NO.	DESCRIPTION	QTY			
1.	70732573	RESERVOIR ASM 17.3GAL	1REF	15.	72053141	PIPE NIPPLE BLK 3/4XCLOSE 1
2.	72060004	CAP SCR 1/4-20X1 HHGR5Z	2	16.	73052000	HYD FILTER 10MIC 3/4NPTF 1
3.	72060046	CAP SCR 3/8-16X1 HHGR5Z	4	17.	60121443	OIL FILTER BRACKET 1
4.	72062103	NUT 3/8-16 HEX NYLOC	4	18.	51393468	HOSE 3/4X60 #12F#12F 1
5.	72062104	NUT 1/4-20 HEX NYLOC	2	19.	51394360	HOSE 3/4X24 #12F#12F 1
6.	72063001	WASHER 1/4W	4	20.	51394916	HOSE 1/2X99 #8F#8F 1
7.	72063003	WASHER 3/8W	8	21.	60350060	HOSE 1-1/4 100R4 X 63 1
8.	72066516	HOSE CLAMP 1-1/4 2BOLT	2	23.	60010354	CLAMP PLATE 4
9.	72531427	ELBOW 3/4MPT #12MJIC 90°	4	24.	60107478	WASHER-SQUARE TIE DOWN 8
10.	72532346	BARB NIPPLE 1-1/4 1-1/4 90°	1	25.	60107829	STUD-TIE DOWN 1X18 8
11.	72532670	ELBOW #8MJIC #8FJIC 45°	1	26.	52706660	SUPPORT-TRUCK FRAME 9-1/2 4
12.	72532834	BEAD NIPPLE 1.00NPT 1-1/4 90°	1	27.	72062141	NUT 1-8 HEX LOCK 16
13.	72532972	ADPTR #8MJIC #12FJIC	1	28.	72063066	WASHER 1.00 HI STR 8
14.	73054129	GATE VALVE 3/4 BRASS	1	30.	72060002	CAP SCR 1/4-20X3/4 HHGR5Z 2
				31.	72063049	WASHER 1/4 LOCK 2



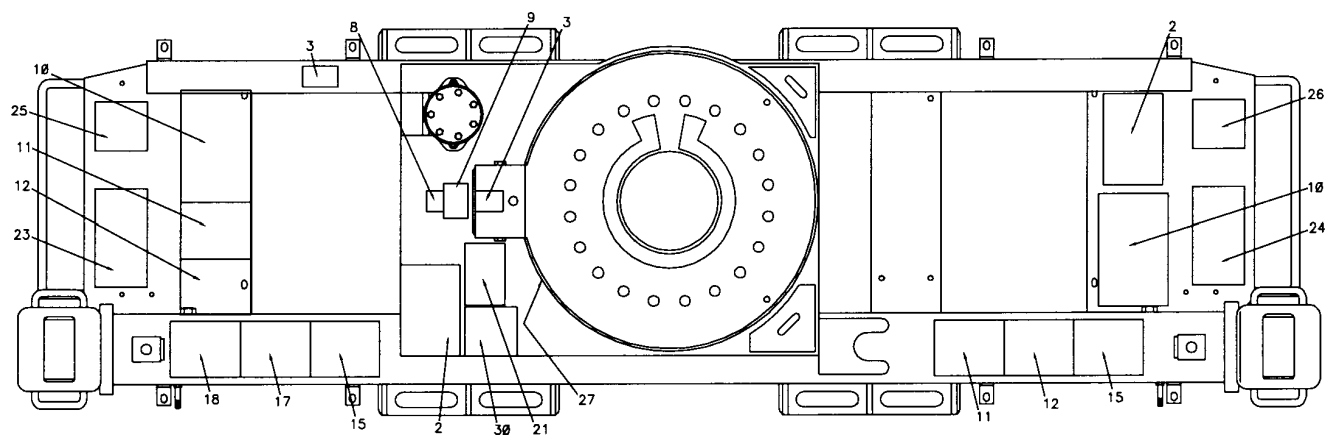
**DECAL KIT-5800 SERIES-2H1M
(95710961-1)**

1. 70029251	IMT DIAMOND	2	18. 70392890	DECAL-DGR STOW/UNFOLD	2
2. 70391583	DECAL-SETUP/STOW	2	19. 70392891	DECAL-DANGER DRIVELINE	2
3. 70391612	DECAL-GREASE WEEKLY LH	5	20. 70392982	DECAL-CONTACT IMT	1
4. 70391613	DECAL-GREASE WEEKLY RH	4	21. 71039134	DECAL-CAUTION OIL LEVEL	1
5. 70392108	DECAL-SUCTION LINE	1	22. 70393598	CAPACITY PLACARD- 2 HYDEXT	2
6. 70392109	DECAL-RETURN LINE	1	23. 71392255	DECAL-CTRLS STREETSIDE	1
7. 70393596	DECAL-5800 SERIES IDENT	2	24. 71392256	DECAL-CTRLS CURBSIDE	1
8. 70392213	DECAL-CAUTION WASH/WAX	1	25. 71392257	DECAL-STAB PWR DN SS	1
9. 70392524	DECAL-ROTATE/GREASE	1	26. 71392258	DECAL-STAB PWR DN CS	1
10. 70392813	DECAL-DGR ELECTROCUTION	2	27. 71392365	DECAL-ROTATIONAL ALIGNMENT	1
11. 70392814	DECAL-WARN OPERATOR	2	28. 70392889	DECAL-DNGR RC ELECTRO LG	2
12. 70392815	DECAL-WARN OPERATION	2	29. 70394190	DECAL-CAUTION NOT A STEP	2
13. 70392864	DECAL-WARN STAB STD CLR	2	30. 70394189	PLACARD-OIL REC	1
14. 70392865	DECAL-DGR ELECTROCUTION	4	31. 70394443	DECAL-DGR FREEFALL BOOM	1 REF
15. 70392866	DECAL-WARN OPER COND	2	32. 70392868	DECAL-WARN CR LOADLINE	4
17. 70392888	DECAL-WARN OPER RESTRICT	2	33. 70392863	DECAL-WARN HOIST PERS	2
			34. 70395323	DECAL-ASME/ANSI B30.22	1
			35. 72042097	LEVEL	2



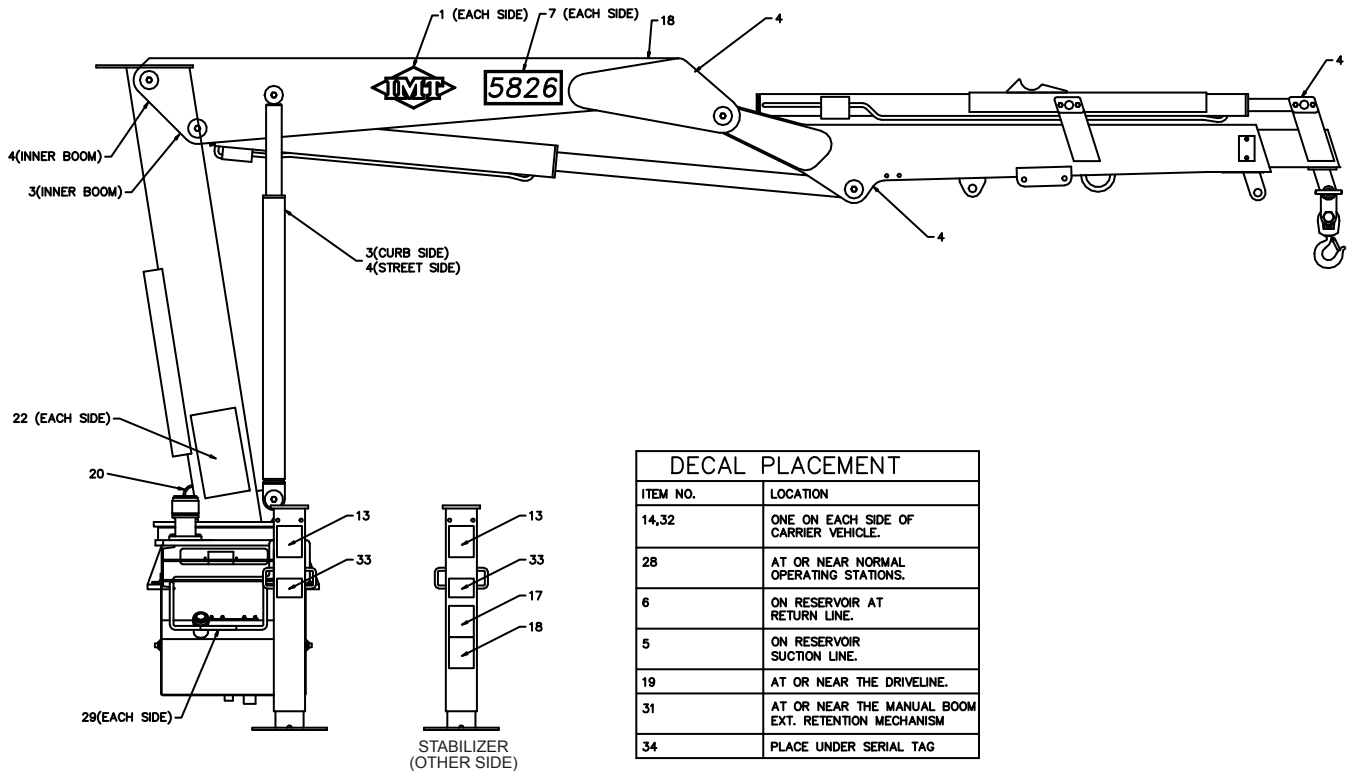
NOTE: PLACE ITEM #35, LEVEL, ON FRONT AND SIDE OF CRANE BASE.

DECAL KIT-5800 SERIES-2H1M
(95710961-2)



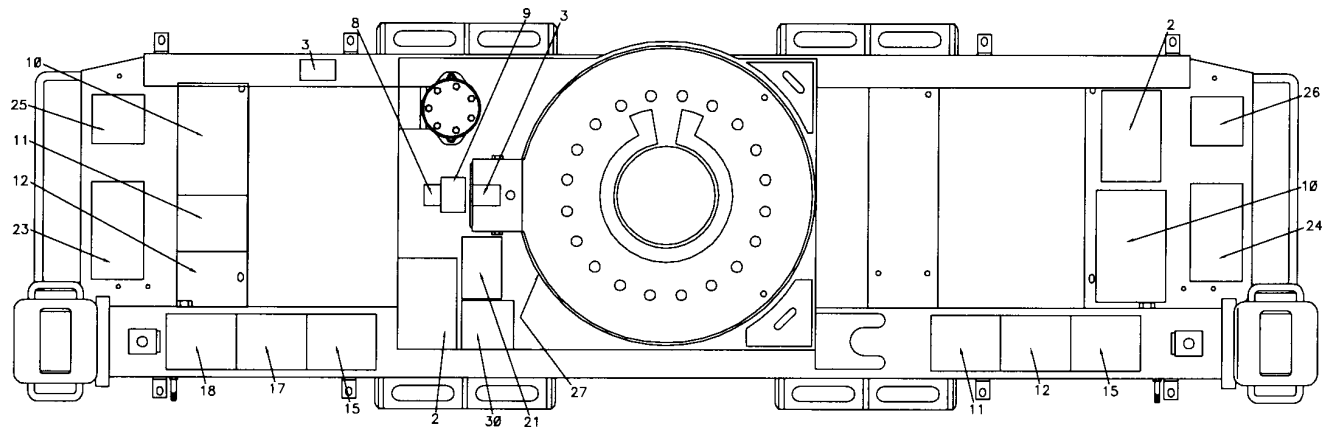
DECAL KIT-5800 SERIES-1H (95710982-1)

1. 70029251	IMT DIAMOND	2	19. 70392891	DECAL-DANGER DRIVELINE	2
2. 70391583	DECAL-SETUP/STOW	2	20. 70392982	DECAL-CONTACT IMT	1
3. 70391612	DECAL-GREASE WEEKLY LH	6	21. 71039134	DECAL-CAUTION OIL LEVEL	2
4. 70391613	DECAL-GREASE WEEKLY RH	6	22. 70393597	CAPACITY PLACARD-1 HYD EXT	2
5. 70392108	DECAL-SUCTION LINE	1	23. 71392255	DECAL-CTRLS STREETSIDE	1
6. 70392109	DECAL-RETURN LINE	1	24. 71392256	DECAL-CTRLS CURBSIDE	1
7. 70393596	DECAL-5800 SERIES IDENT	2	25. 71392257	DECAL-STAB PWR DN SS	1
8. 70392213	DECAL-CAUTION WASH/WAX	1	26. 71392258	DECAL-STAB PWR DN CS	1
9. 70392524	DECAL-ROTATE/GREASE	1	27. 71392365	DECAL-ROTATION ALIGNMENT	1
10. 70392813	DECAL-DGR ELECTROCUTION	2	28. 70392889	DECAL-DGR RC ELECTRO LG	2
11. 70392814	DECAL-WARN OPERATOR	2	29. 70394190	DECAL-CAUTION NOT A STEP	2
12. 70392815	DECAL--WARN OPERATION	2	30. 70394189	PLACARD-OIL REC	1
13. 70392864	DECAL--WARN STAB STD CLR	2	31. 70394443	DECAL-DGR FREEFALL BOOM	1REF
14. 70392865	DECAL-DGR ELECTROCUTION	4	32. 70392868	DECAL-DGR CR LOADLINE	4
15. 70392866	DECAL--WARN OPER COND	2	33. 70392863	DECAL-DGR HOIST PERS	2
17. 70392888	DECAL-WARN OPER RESTRICT	2	34. 70395323	DECAL-ASME/ANSI B30.22	1
18. 70392890	DECAL-DGR STOW/UNFOLD	2	35. 72042097	LEVEL	2



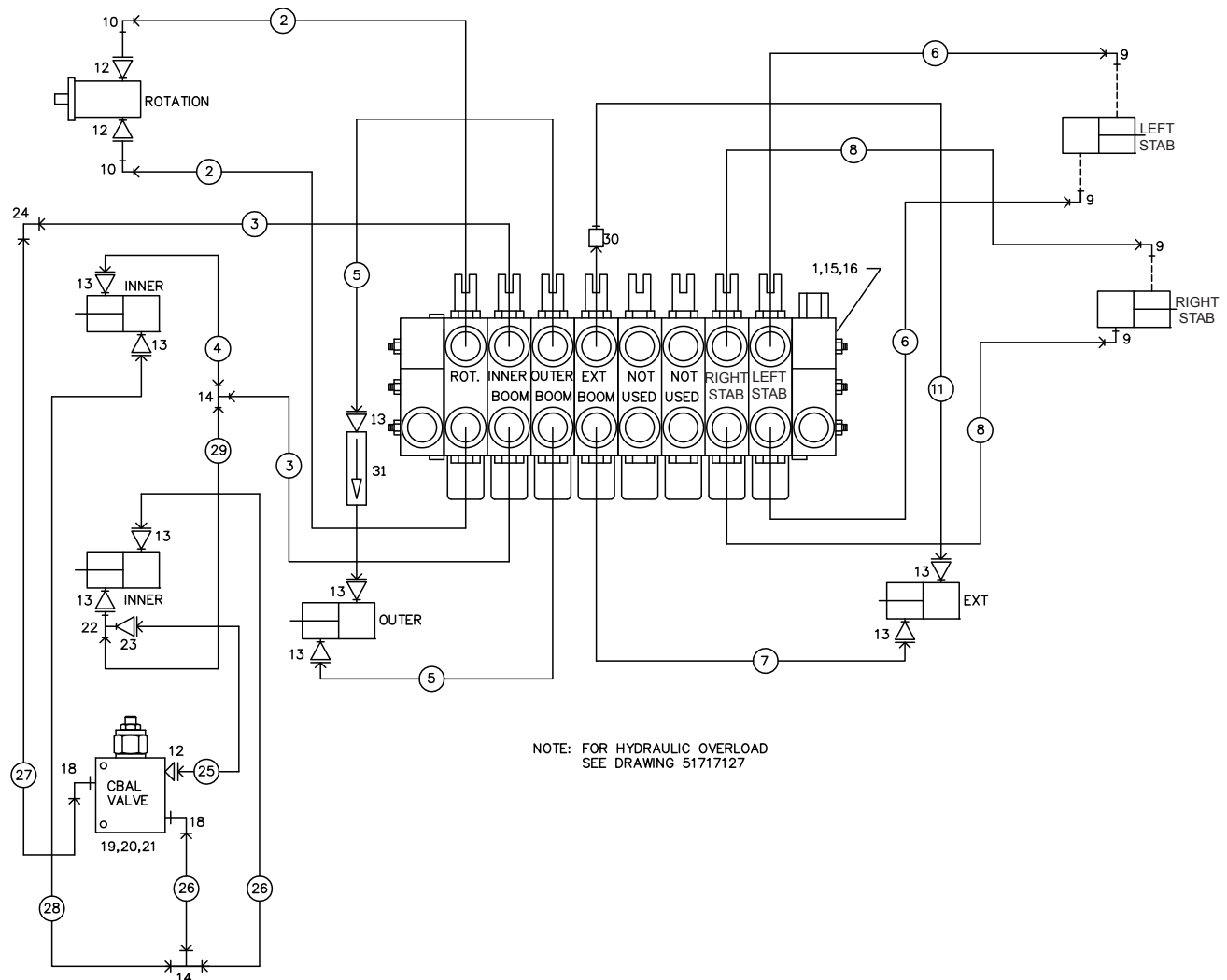
DECAL PLACEMENT	
ITEM NO.	LOCATION
14,32	ONE ON EACH SIDE OF CARRIER VEHICLE.
28	AT OR NEAR NORMAL OPERATING STATIONS.
6	ON RESERVOIR AT RETURN LINE.
5	ON RESERVOIR SUCTION LINE.
19	AT OR NEAR THE DRIVELINE.
31	AT OR NEAR THE MANUAL BOOM EXT. RETENTION MECHANISM
34	PLACE UNDER SERIAL TAG

NOTE: PLACE ITEM #35, LEVEL, ON FRONT AND SIDE OF CRANE BASE.

DECAL KIT-5800 SERIES-1H(95710982-2)

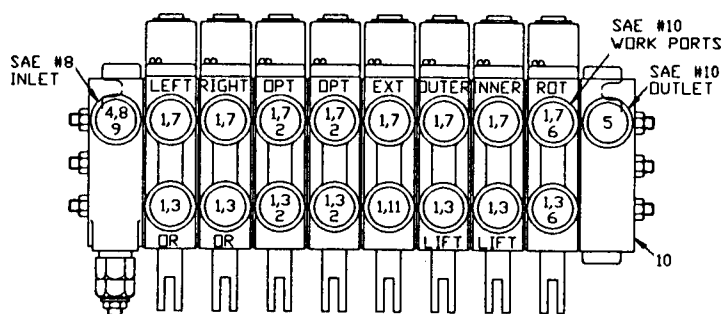
HYDRAULIC KIT (91710962)

1.	51710944	VALVEBANKASM	1REF	15.	72062103	NUT 3/8-16 LOCK	3
2.	51393928	HOSE ASM 1/4X51 #4F#4F	2REF	16.	72060048	CAP SCR 3/8-16X1-1/2 HH GR5	3
3.	51393957	HOSE ASM 3/8X33 #6F#8F	2REF	17.	51716367	HOSE KIT (INCL:2-8,10,26-29)	1
4.	51393922	HOSE ASM 3/8X26 #8F#8F	1REF	18.	72053763	ELBOW #8MSTR #8MJIC 90	2
5.	51393923	HOSE ASM 3/8X111 #6F#8F	2REF	19.	73540061	C'BAL VALVE	1
6.	51393955	HOSE ASM 3/8X113 #6F#6F	2REF	20.	72060008	CAP SCR 1/4-20X2 HHGR5	2
7.	51393956	HOSE ASM 3/8X231 #6F#8F	1REF	21.	72063049	WASHER 1/4 LOCK	2
8.	51393954	HOSE ASM 3/8X93 #6F#6F	2REF	22.	72532657	TEE #8JIC SWVLNUTRUN	1
9.	72532700	ELBOW 9/16MSTR 9/16MJICXLG	4	23.	72532665	ADAPTER #4MJIC #8FJIC	1
10.	72532690	ELBOW 7/16MJIC 7/16FJIC	2	24.	72533663	ELBOW #8MJIC #8MJIC 90	1
11.	51393958	HOSE ASM 1/2X231 #8F#8F	1REF	25.	51395859	HOSE-FJ .25X14.5 #4#4 (PO 17)	1REF
12.	72532351	ADAPTER 7/16MSTR 7/16MJIC	3	26.	51394424	HOSE-FF .38X12 #8#8 (PO 17)	2REF
13.	72532358	ADAPTER 3/4MSTR 3/4MJIC	8	27.	51395858	HOSE-FF .38X20 #8#8 (PO 17)	1REF
14.	72531205	TEE 3/4MJIC 1/2TUBE	2	28.	51394588	HOSE-FF .38X41 #8#8 (PO 17)	1REF
				29.	51395954	HOSE-FJ .38X22 #8#8 (PO 17)	1REF
				30.	72532980	SWIVEL #8MJIC #8FJIC IN-LINE	1



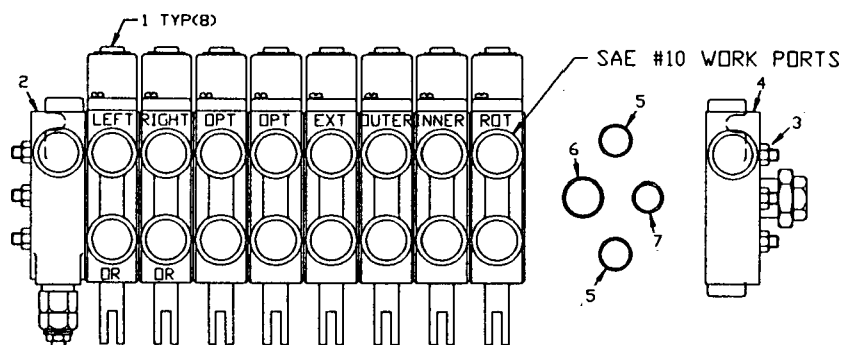
VALVEBANK ASM-8 SECT/MNL (51710944)

ITEM	PART NO.	DESCRIPTION	QTY
1.	72532722	ADAPTER #10MSTR #6FSTR	16
2.	72532738	CAP 9/16JIC STL	4
3.	72053760	ELBOW #6MSTR #6MJIC 90°	7
4.	72053763	ELBOW #8MSTR #8MJIC 90°	1
5.	72053766	ELBOW #10MSTR #12MJIC 90°	1
6.	72532707	ADAPTER #4MJIC #6FJIC	2
7.	72532700	ELBOW #6MSTR #6MJIC XLG	8
8.	72532657	TEE 3/4JIC SWVL NUT	1
9.	72532675	CAP 3/4JIC STL	1
10.	70731499	VALVEBANK 8-SECTION	1
11.	72053763	ELBOW #6MSTR #8MJIC 90°	1



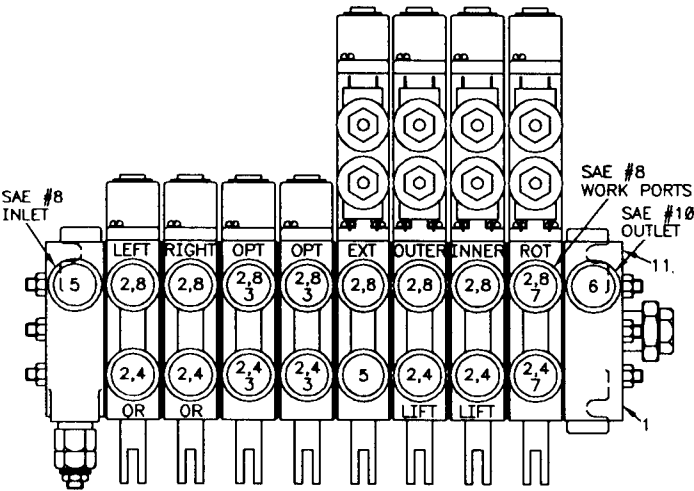
VALVEBANK (70731499)

ITEM	PART NO.	DESCRIPTION	QTY
1.	73054490	TANDEM VALVE SECTION	8
2.	73054488	END CAP LH	1
3.	94731681	TIE ROD KIT	1
4.	73731576	END CAP RH	1
5.	7Q072018	O-RING	18
6.	7Q072021	O-RING	9
7.	7Q072017	O-RING	9



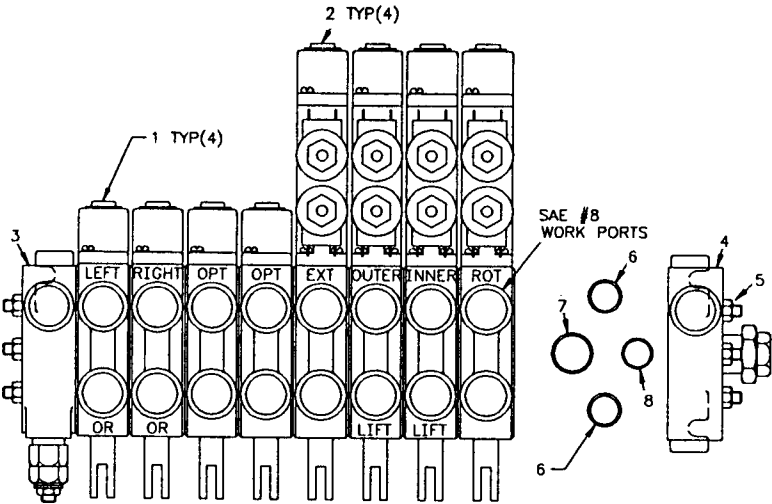
VALVEBANK ASM 4R/4M (51711707)

ITEM	PART NO.	DESCRIPTION	QTY
1.	70732848	VALVEBANK 8-SECT	1
2.	72533052	ADAPTER #8MSTR #6FSTR	15
3.	72532738	CAP 9/16JIC	4
4.	72053760	ELBOW #6MSTR #6MJIC 90°	7
5.	72053763	ELBOW #8MSTR #8MJIC 90°	2
6.	72053766	ELBOW #10MSTR #12MJIC 90°	1
7.	72532707	ADAPTER #4MJIC #6FJIC	2
8.	72532700	ELBOW #6MSTR #6MJIC XLG	8
11.	72053764	ELBOW #10MSTR #8MJIC 90°	1



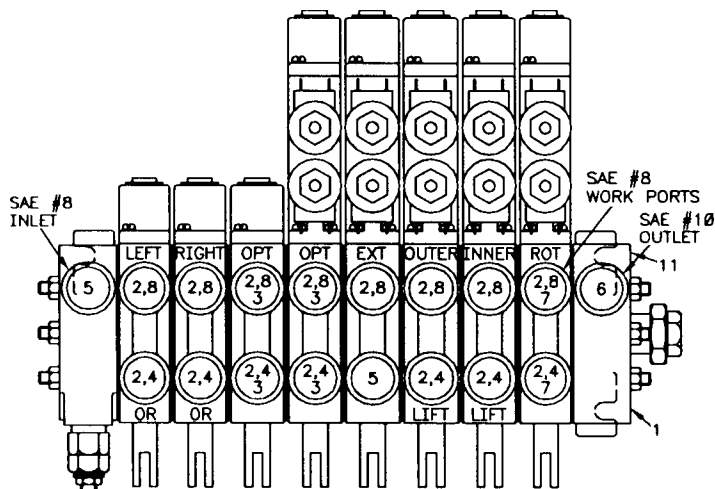
VALVEBANK (70732848)

ITEM	PART NO.	DESCRIPTION	QTY
1.	73540007	VALVE SECTION-MNL	4
2.	73054845	VALVE SECTION-RMT	4
3.	73054488	END COVER LH	1
4.	73540009	END COVER RH	1
5.	94731681	TIE ROD KIT	1
6.	7Q072018	O-RING	18
7.	7Q072021	O-RING	9
8.	7Q072017	O-RING	9

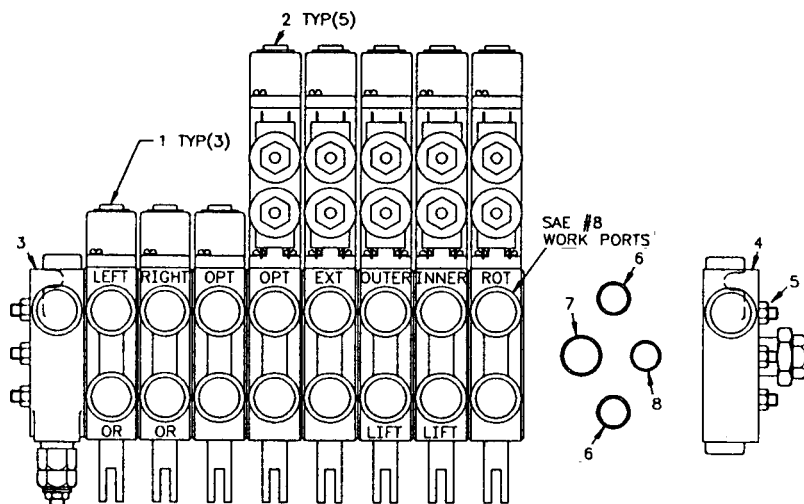


VALVEBANK ASM 5R/3M (51711706)

ITEM	PART NO.	DESCRIPTION	QTY
1.	70732847	VALVEBANK 8-SECT	1
2.	72533052	ADAPTER #8MSTR #6FSTR	15
3.	72532738	CAP 9/16JIC	4
4.	72053760	ELBOW #6MSTR #6MJIC 90°	7
5.	72053763	ELBOW #8MSTR #8MJIC 90°	2
6.	72053766	ELBOW #10MSTR #12MJIC 90°	1
7.	72532707	ADAPTER #4MJIC #6FJIC	2
8.	72532700	ELBOW #6MSTR #6MJIC XLG	8
11.	72053764	ELBOW #10MSTR #8MJIC 90°	1

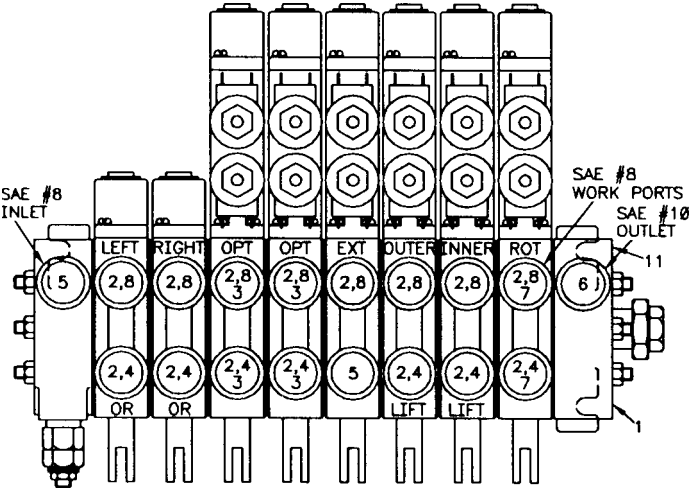
**VALVEBANK (70732847)**

ITEM	PART NO.	DESCRIPTION	QTY
1.	73540007	VALVE SECTION-MNL	3
2.	73054845	VALVE SECTION-RMT	5
3.	73054488	END COVER LH	1
4.	73540009	END COVER RH	1
5.	94731681	TIE ROD KIT	1
6.	7Q072018	O-RING	18
7.	7Q072021	O-RING	9
8.	7Q072017	O-RING	9



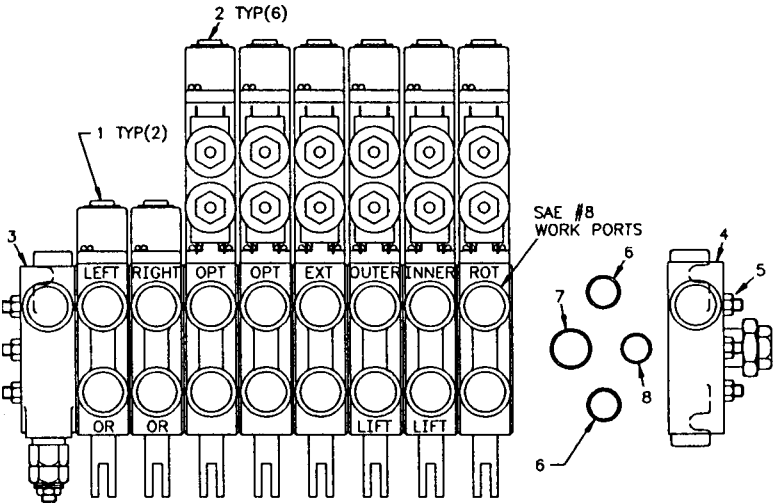
VALVEBANK ASM 6R/2M (51711708)

ITEM	PART NO.	DESCRIPTION	QTY
1.	70732849	VALVEBANK 8-SECT	1
2.	72533052	ADAPTER #8MSTR #6FSTR	15
3.	72532738	CAP 9/16JIC	4
4.	72053760	ELBOW #6MSTR #6MJIC 90°	7
5.	72053763	ELBOW #8MSTR #8MJIC 90°	2
6.	72053766	ELBOW #10MSTR #12MJIC 90°	1
7.	72532707	ADAPTER #4MJIC #6FJIC	2
8.	72532700	ELBOW #6MSTR #6MJIC XLG	8
11.	72053764	ELBOW #10MSTR #8MJIC 90°	1



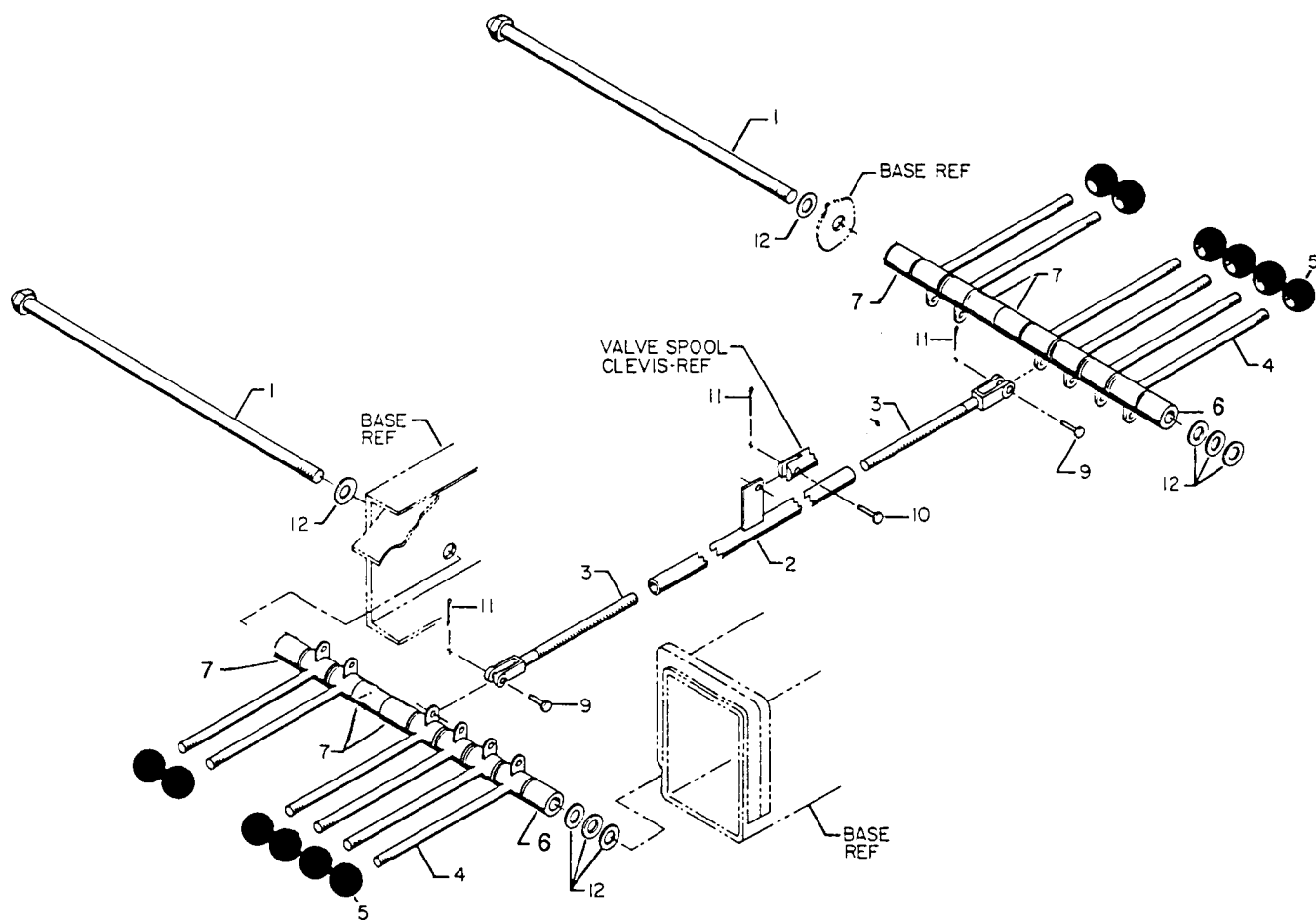
VALVEBANK (70732849)

ITEM	PART NO.	DESCRIPTION	QTY
1.	73540007	VALVE SECTION-MNL	2
2.	73054845	VALVE SECTION-RMT	6
3.	73054488	END COVER LH	1
4.	73540009	END COVER RH	1
5.	94731681	TIE ROD KIT	1
6.	7Q072018	O-RING	18
7.	7Q072021	O-RING	9
8.	7Q072017	O-RING	9



CONTROL KIT 6F MNL (90704417)

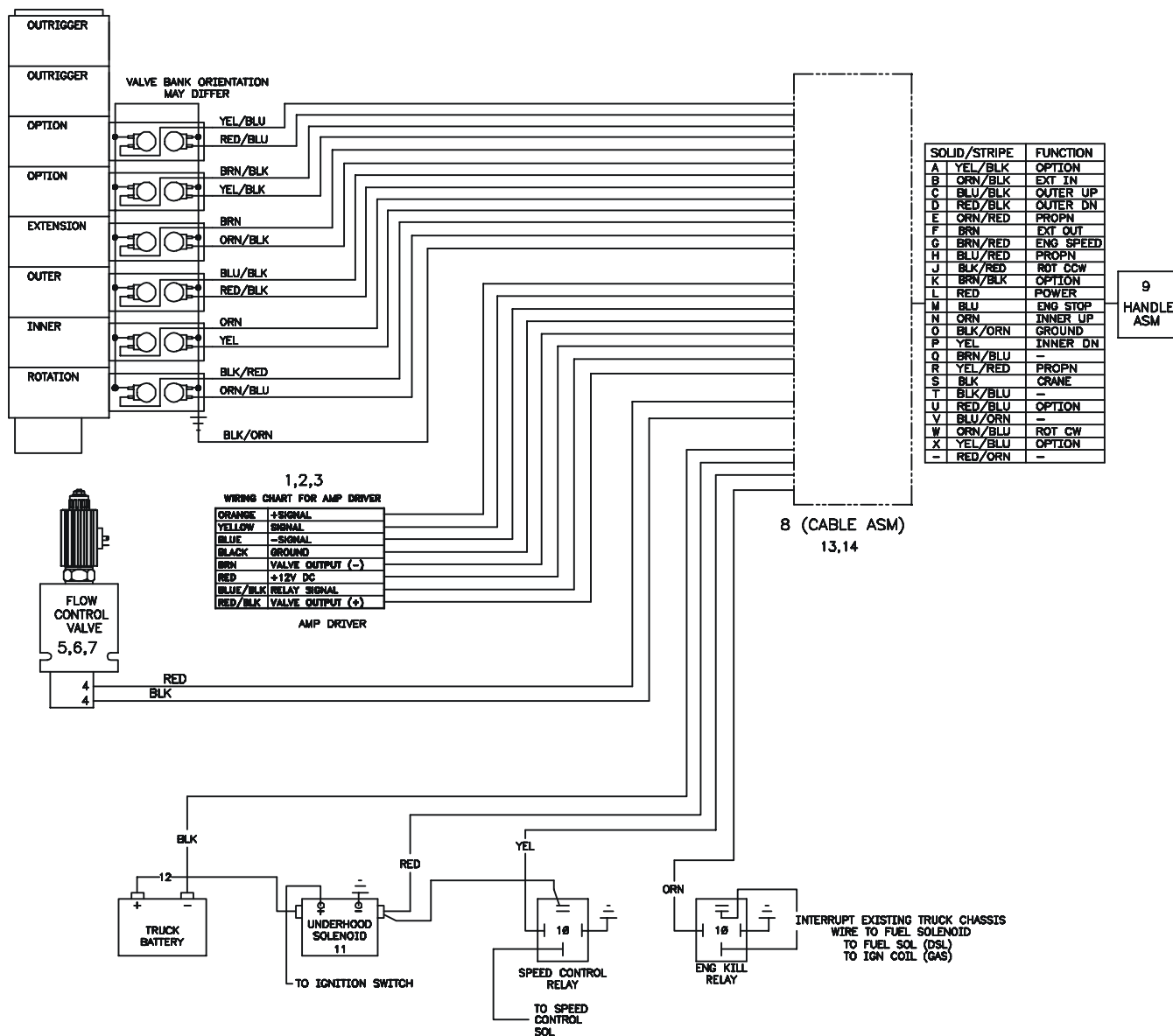
ITEM	PART NO.	DESCRIPTION	QTY
1.	52704397	CTRL HNDL MTG ROD	2
2.	52704744	CONTROL ROD F	6
3.	52704745	CONTROL ROD M	12
4.	70029451	CONTROL HANDLE	12
5.	71039096	KNOB	12
6.	60030068	SPACER 1-3/8	2
7.	60030069	SPACER 1-3/4	6
9.	72066338	CLEVIS PIN 5/16X1	12
10.	72661169	CLEVIS PIN 5/16X3/4	6
11.	72066168	COTTER PIN 3/32X3/4	18
12.	72063119	WASHER 5/8	8



PROP'L RMT CONTROL KIT (90716707)

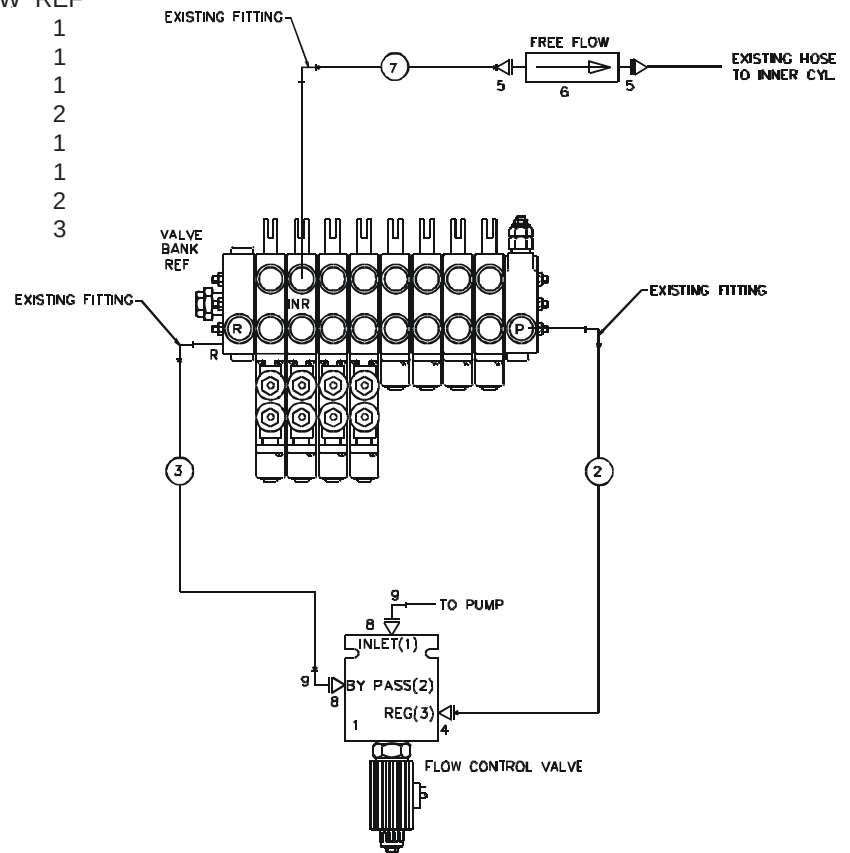
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- | | | | |
|-----|----------|--------------------------|---|
| 1. | 77044837 | VALVE DRIVER-REPL | |
| | | W/COMMAND ARTCL | 1 |
| 2. | 72060703 | CAP SCR .25-20 x .50 SH | 2 |
| 3. | 72063049 | WASHER .25 LOCK | 2 |
| 4. | 77040186 | TERM - F SLPON I .25 | |
| | | TAB 16-14GA | 2 |
| 5. | 73054876 | PROPORTIONAL PRIORITY | |
| | | FLOW VALVE - 3000 | 1 |
| 6. | 72060051 | CAP SCR .38-16X2.5 HHGR5 | 2 |
| 7. | 72062103 | NUT .38-16 SLFLKG | 2 |
| 8. | 51713568 | CABLE ASM-JIC BOX 6x6x4 | 1 |
| 9. | 51713429 | HANDLE ASM- | |
| | | REMOTE CONTROL | 1 |
| 10. | 77041251 | BOSCH RELAY | 2 |
| 11. | 77041237 | SOLENOID 12V | 1 |
| 12. | 51704784 | CABLE ASM #1WIRE X 6.00" | 1 |
| 13. | 72060004 | CAP SCR .25-20X1 HHGR5 Z | 4 |
| 14. | 72062104 | NUT .25-20 HEX NYLOC Z | 4 |



SCHEMATIC – REMOTE CONTROL KIT V12R (90716707)

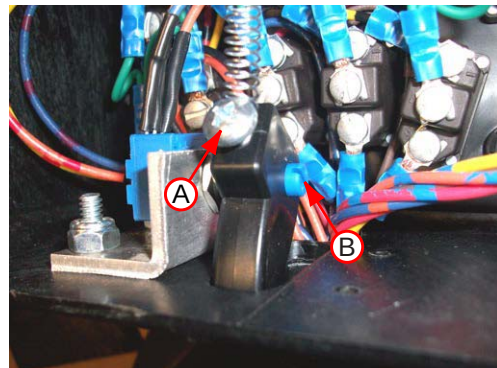
ITEM	PART NO.	DESCRIPTION	QTY
1.	73054876	VALVE-PROP N PRIORITY FLOW	REF
2.	51709389	HOSE ASM 1/2X14 #8F#8F	1
3.	51716706	HOSE ASM 1/2X9 #8F#8F	1
4.	72532360	ADAPTER #12MSTR #8MJIC	1
5.	72532358	ADAPTER #8MSTR #8MJIC	2
6.	73054426	RELIEF VALVE 750 PSI	1
7.	51708692	HOSE ASM 3/8X4 #8F#8F	1
8.	72532951	ADAPTER #12MSTR #8FSTR	2
9.	72053763	ELBOW #8MSTR #8MJIC 90°	3



TETHERED PROPORTIONAL REMOTE POTENTIOMETER ADJUSTMENT

NOTES: ONLY use this procedure to set the low-end output on the remote handle assembly if crane functions operate without pulling the proportional trigger. You may need a second operator to help with steps 4 and 5.

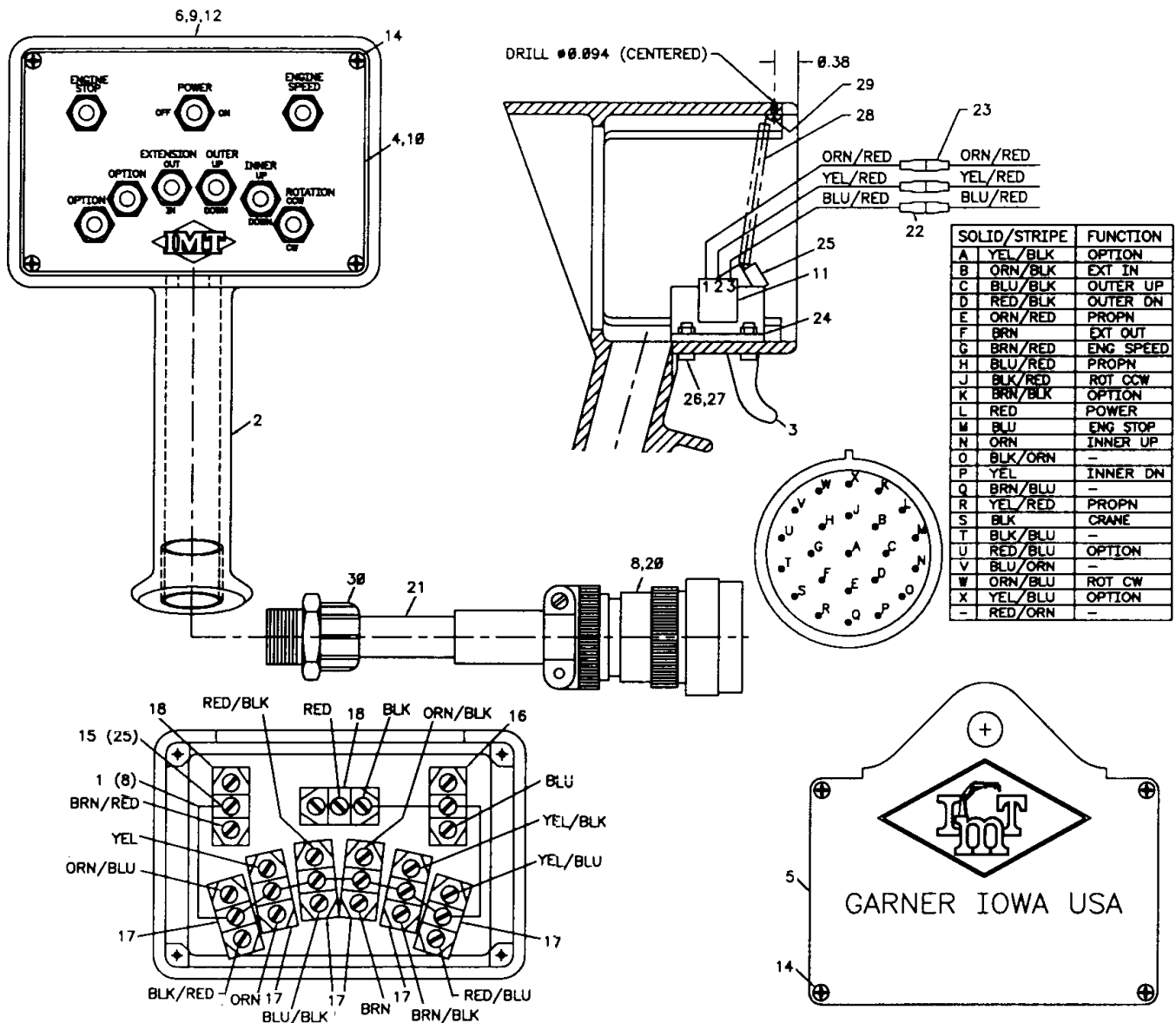
- Following proper crane and stabilizer set-up, with the PTO engaged and the truck running, move the crane from the stowed position to a position off to the side of the truck. Unstow the winch cable hook and lower the winch approx (6) six feet.
- Remove the back cover of the remote control handle.
- Loosen screw "A" slightly. (Note: Screw style may vary).
- While holding "WINCH DOWN" function, very slowly, rotate screw "B" clockwise until all movement has stopped.
- Release "WINCH DOWN" function.
- Tighten screw "A"
- Test by operating "WINCH DOWN", "WINCH UP", "ROTATE CCW", and "ROTATE CW" without pulling the trigger. If any of these functions move, repeat steps 2 through 6.
- Replace control back cover and properly stow the crane and stabilizers.



PROP'L RMT HANDLE ASM (51713429)

ITEM	PART NO.	DESCRIPTION	QTY
1.	60045031	WIRE 18GA X 4 GRN	8
2.	60119335	CONTROL HANDLE BACK	1
3.	60111141	TRIGGER	1
4.	60119277	COVER	1
5.	70034306	BACK COVER	1
6.	70029119	SERIAL NUMBER PLACARD	1
8.	77044621	PIN	23
9.	70392862	DECAL-DGR RC ELECTRO	1
10.	71394282	DECAL-RC HANDLE	1
11.	51707507	POTENTIOMETER ASM(INCL:22)	1
12.	72066340	POP RIVET	2
14.	72061009	SHT MTL SCR #6X3/4 PH	8
15.	77040051	TERM #8 SPRSPD 16-14GA	25

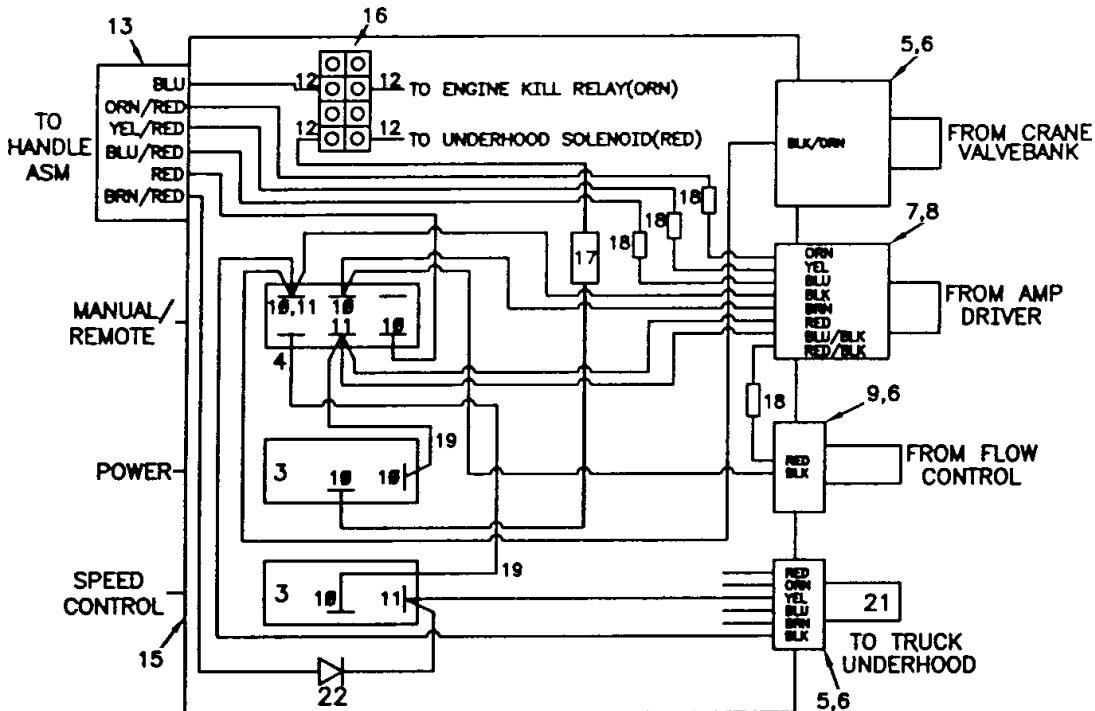
16.	77040371	TOGGLE SWITCH SPST	1
17.	77040372	TOGGLE SWITCH SPDT	6
18.	77040373	TOGGLE SWITCH SPST	2
20.	77044579	CONNECTOR	1
21.	89044100	CABLE 18GA/24WIRE X 45FT	1
22.	77040047	TERM MSLPON(PART OF 11)	3REF
23.	77040186	TERM 1/4 FSLPON 16-14GA	3
24.	60111142	MTG BRACKET	1
25.	72060669	CAP SCR #10-32X5/8 SH	1
26.	72060636	CAP SCR #10-24X3/4 SH	2
27.	72062106	NUT #10-24 LOCK	2
28.	70143223	SPRING	1
29.	72061000	SHT MTL SCR #6X1/2 PH	1
30.	77044196	CONNECTOR	1



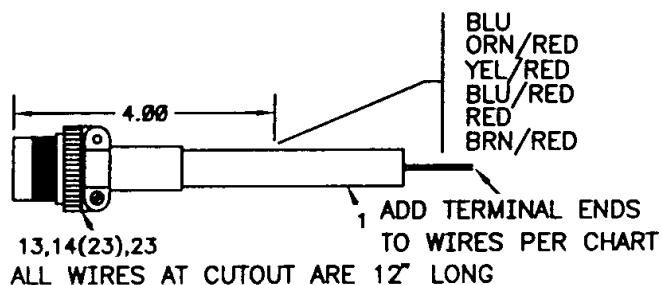
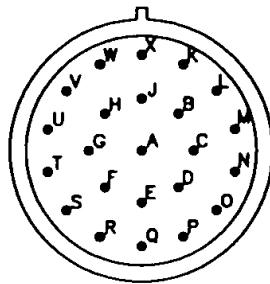
CABLE ASM-JIC BOX 94" (51713568)

ITEM	PART NO.	DESCRIPTION	QTY
1.	89044100	CABLE 18GA/24WIRE X 94	1
2.	90713575	JIC BOX	1
3.	77041345	TOGGLE SWITCH ST	2
4.	77041354	TOGGLE SWITCH DT	1
5.	77044018	STRAIN RELIEF 1/2	2
6.	77044201	NUT 1/2 ELEC LOCK	3
7.	77044196	STRAIN RELIEF 3/4	1
8.	77044202	NUT 3/4 ELEC LOCK	1
9.	77044468	STRAIN RELIEF 1/2	1
10.	77040186	TERM 1/4 FSLPON 16-14GA	25
11.	77040282	TERM 1/4 PIGBAC 16-14GA	3

12.	77040051	TERM #8 SPRSPD 16-14GA	4
13.	77044620	CONNECTOR	1
14.	77044580	SOCKET	23
15.	70393257	DECAL-JIC BOX	1
16.	77044341	TERMINAL BLOCK-4	1
17.	77041056	FUSE 20A IN-LINE	1
18.	77040048	BUTT CONNECTOR 16-14GA	4
19.	89044232	WIRE 14GA RED X 3	2
20.	77044668	PLUG-SEAL	1
21.	89044354	CABLE 14GA/6WIR	84"
22.	77041423	DIODE	1
23.	77044667	PLUG-CAP	1

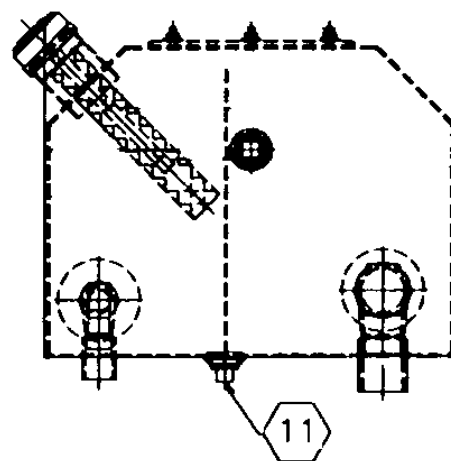
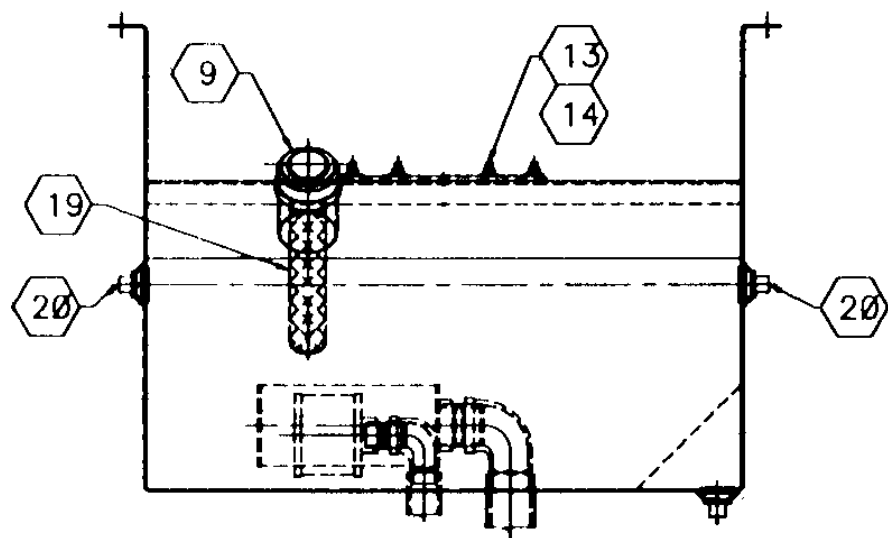
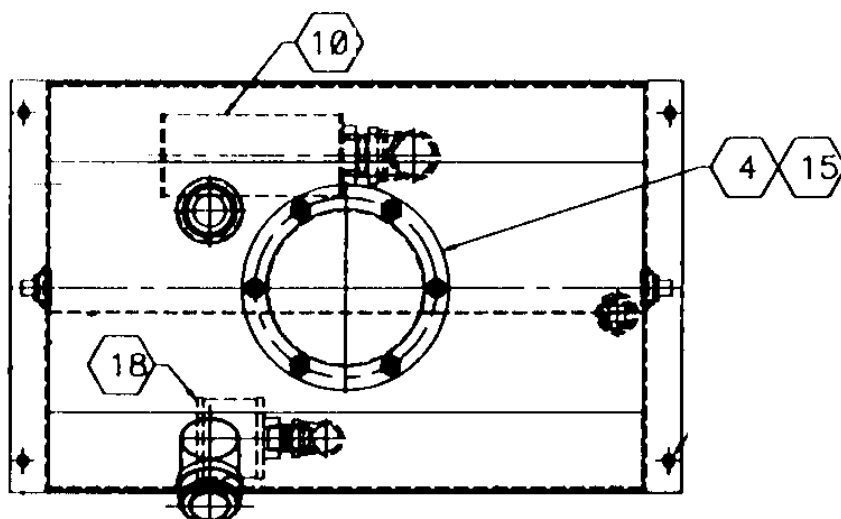


SOLID/STRIPE	TERM	ITEM NO
A	YEL/BLK	10
B	ORN/BLK	10
C	BLU/BLK	10
D	RED/BLK	10
E	ORN/RED	10
F	BRN	10
G	BRN/RED	10
H	BLU/RED	10
J	BLK/RED	10
K	BRN/BLK	10
L	RED	10
M	BLU	12
N	ORN	10
O	20	-
P	YEL	10
Q	BRN/BLU	-
R	YEL/RED	10
S	BLK	10
T	BLK/BLU	-
U	RED/BLU	10
V	BLU/ORN	-
W	ORN/BLU	10
X	YEL/BLU	10
-	RED/ORN	-



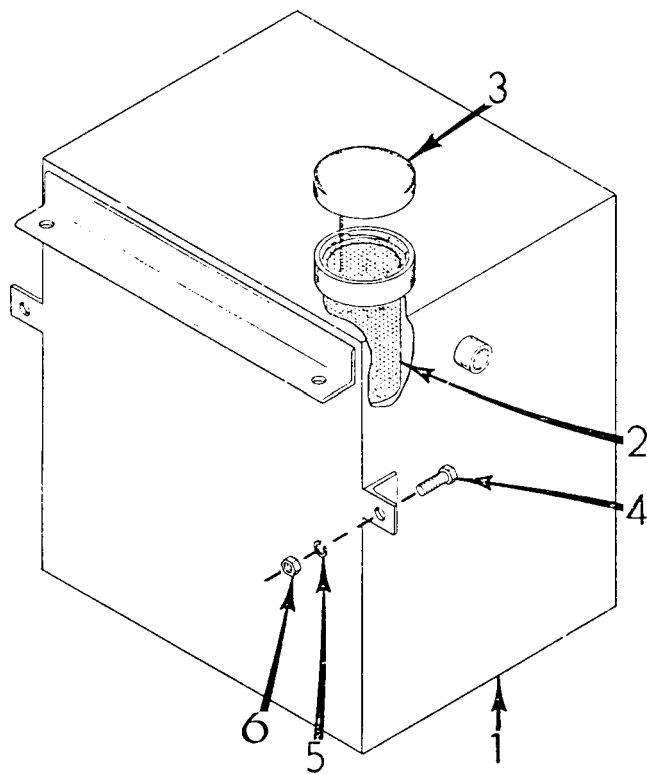
RESERVOIR ASM (70732573)

ITEM	PART NO.	DESCRIPTION	QTY
4.	(530047)	COVER	1
9.	(820117)	DIPSTICK ASM	1
10.	70144326	STRAINER 100MESH	1
11.	73052001	PLUG 3/4FPT SQHD MAGNETIC	1
13.	72062000	NUT 1/4-20 HEX	6
14.	72063001	WASHER 1/4 FLAT	6
15.	76393565	O-RING	1
18.	70034410	DIFFUSER 3/4NPT	1
19.	70732791	SCREEN 100MESH	1
20.	72053415	PLUG 3/4 SQHD STEEL	2



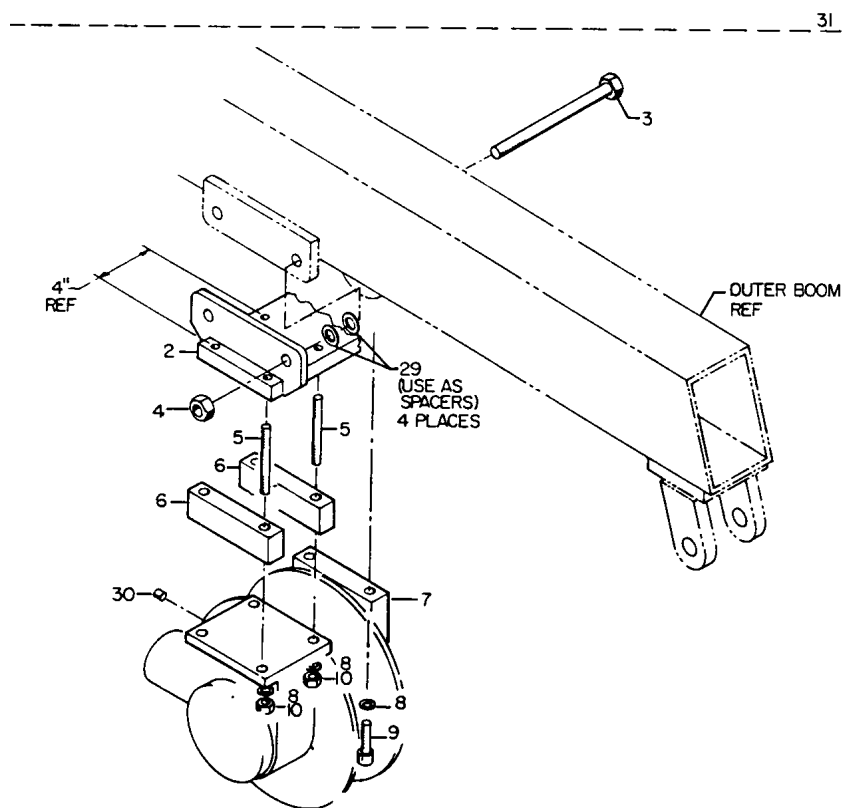
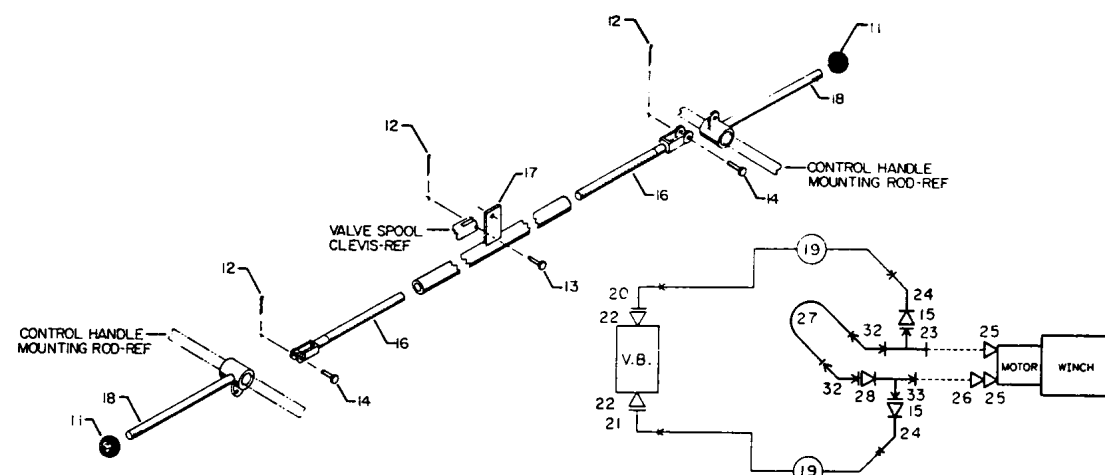
AUX RESERVOIR KIT 30-GAL (31701760)

ITEM	PART NO.	DESCRIPTION	QTY
1.	52701550	RESERVOIR	1
2.	73141276	STRAINER	1
3.	73014671	FILL CAP	1
4.	72060093	CAP SCR 1/2-13X1-1/2 HHGR5	4
5.	72063053	WASHER 1/2 LOCK	4
6.	72062004	NUT 1/2-13 LOCK	4



WINCH KIT (31711646)

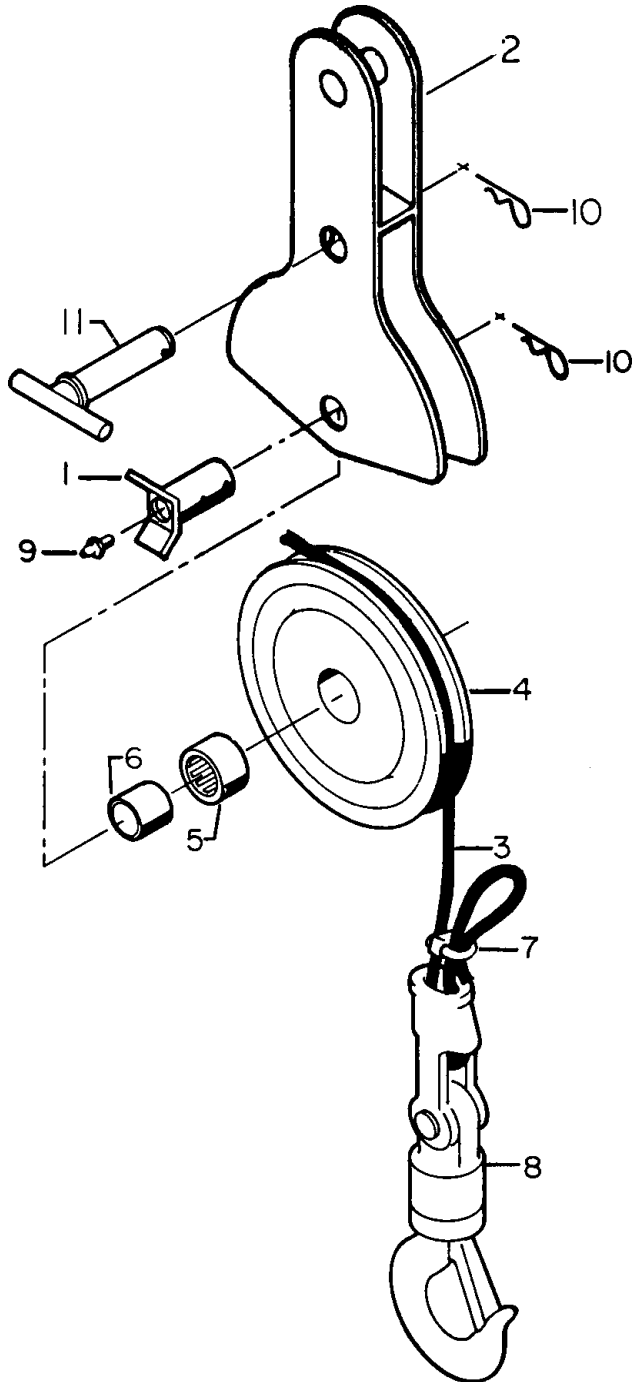
ITEM	PART NO.	DESCRIPTION	QTY				
2.	*	MTG BRACKET	1REF	18.	70029451	CONTROL HANDLE	2
3.	*	CAP SCR 3/4-10X9 HHGR5	2REF	19.	51704589	HOSE ASM 3/8X245 FF	2
4.	*	NUT 3/4-10 LOCK	2REF	20.	72053760	ELBOW #6MSTR #6MJIC 90°	1
5.	*	STUD 1/2-13X4-1/2	4REF	21.	72532700	ELBOW #6MSTR #6MJIC XLG	1
6.	*	SPACER	2REF	22.	72532722	ADPTR #10MSTR #6FSTR (VB)	2REF
7.	*	WINCH (INCL: 30)	1REF	23.		CHECKVALVE	1REF
8.	*	WASHER 1/2 LOCK	6REF	24.	*	ELBOW #8MJIC #8FJIC 45°	2REF
9.	*	CAP SCR 1/2-13X2-1/2 SH	2REF	25.	*	ADAPTER #10MSTR 1/2FPT	2REF
10.	*	NUT 1/2-13 HEX	4REF	26.	*	ADAPTER 1/2MPT 3/8MPT	1REF
11.	71039096	KNOB	2	27.	*	TUBE	1REF
12.	72066168	COTTER PIN .09X3/4	3	28.	*	RED. BUSHING 3/8MPT 1/4FPT	1REF
13.	72661169	PIN	1	29.	72063030	MACH BUSING 3/4X10GA	8
14.	72066338	CLEVIS PIN 5/16X1	2	30.	72060596	SET SCR 1/2-13X3/4 SH(PO 7)	1REF
15.	*	ADAPTER 1/2MPT #8MJIC	2REF	31.	31904004	WINCH KIT (INCL: *)	1
16.	52704745	CONTROL ROD-M	2	32.	*	FLRLS #4TUBE 1/4MPT 45°	2REF
				33.	*	TEE 3/8NPT	1REF



OPTION-CABLE & HOOK KIT (31705637)**NOTE:**

WINCH CAPACITY LIMITED TO 4000 LBS (1815 KGS)

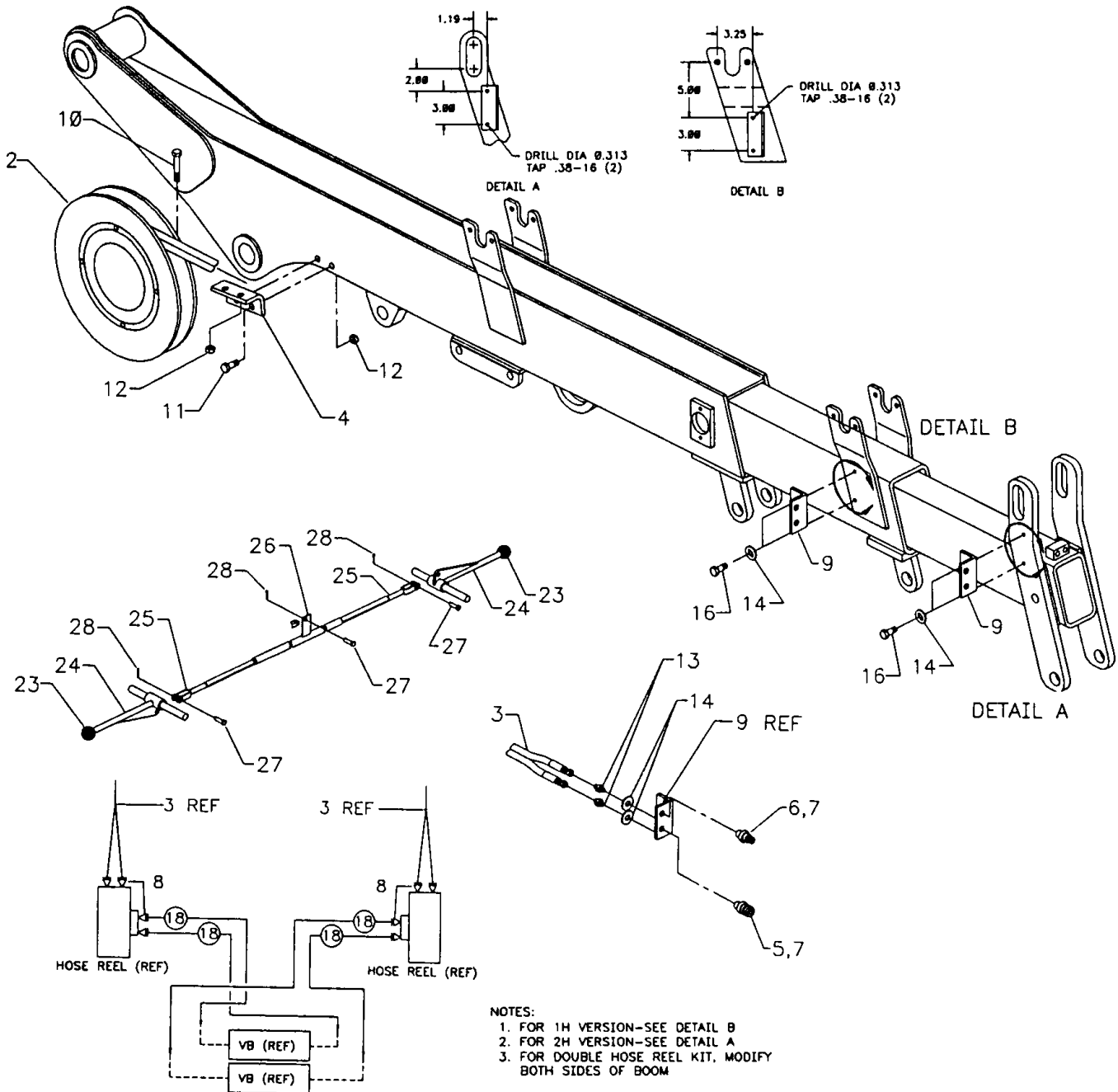
ITEM	PART NO.	DESCRIPTION	QTY
1.	52070705	PIN	1
2.	52704143	YOKE	1
3.	60107592	CABLE 3/8X65'	1
4.	70034204	SHEAVE 10-1/4 NYLON	1
5.	70055024	BEARING	1
6.	70055025	RACE	1
7.	70058033	CABLE CLAMP 3/8	1
8.	70731716	SWVL HOOK W/WEDGE SOCKET	1
9.	72053508	ZERK 1/8NPT	1
10.	72066145	HAIR PIN	2
11.	52070151	PIN	1



DBL HOSE REEL KIT (31712113)

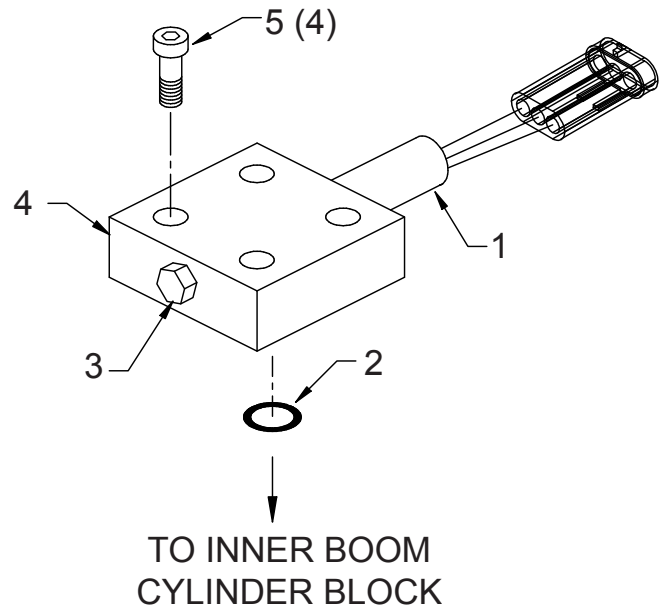
ITEM	PART NO.	DESCRIPTION	QTY
1.	70732863	HOSE REEL-LH	1
2.	70732864	HOSE REEL-RH	1
3.	51393812	HOSE ASM 1/4X300 TWIN FF	2
4.	60117715	HOSE REEL MTG BRACKET	2
5.	72533380	DISCONNECT COUPLER 1/4NPT	2
6.	72533382	DISCONNECT NIPPLE 1/4NPT	2
7.	72533381	CAP	4
8.	72532353	ADAPTER #6MSTR #4MJIC	8
9.	60115137	ANGLE	2
10.	72060097	CAP SCR 1/2-13X3 HHGR5	4

11.	72060093	CAP SCR 1/2-13X1-1/2 HHGR5	4
12.	72062080	NUT 1/2-13 LOCK	8
13.	72053499	ADAPTER 1/4MPT #4MJIC	4
14.	72063003	WASHER 3/8 WRT	8
16.	72060044	CAP SCR 3/8-16X3/4 HHGR5	4
18.	51708885	HOSE ASM 1/4X229 FF	4
23.	71039096	KNOB	4
24.	70029451	CONTROL HANDLE	4
25.	52704745	CONTROL ROD-M	4
26.	52704744	CONTROL ROD-F	2
27.	72066338	CLEVIS PIN 5/16X1	6
28.	72066168	COTTER PIN .09X.75	6



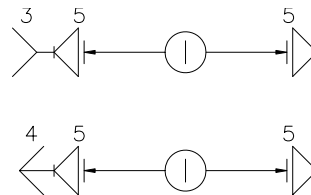
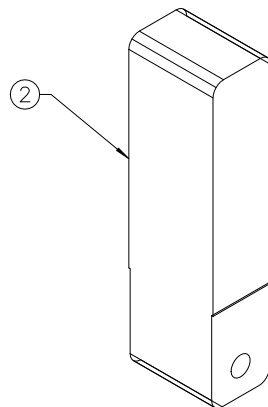
CAPACITY ALERT KIT - AUDIBLE (31717169)

1.	77041652	PRESSURE SWITCH	1
2.	7Q072015	O-RING	1
3.	72532140	PLUG 9/16 -STR HEX HD	1
4.	60025221	MANIFOLD, CAP ALERT	1
5.	72060731	CAP SCR 5/16-18 X 3/4 SH ZINC	4



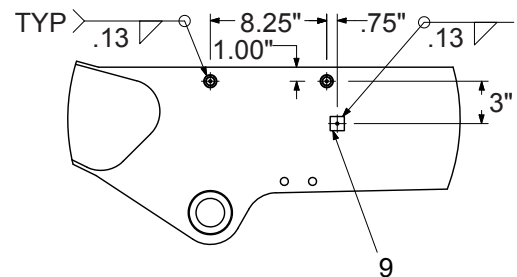
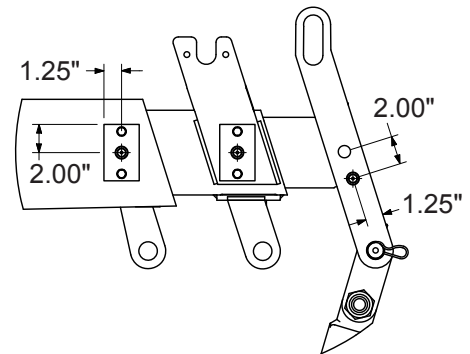
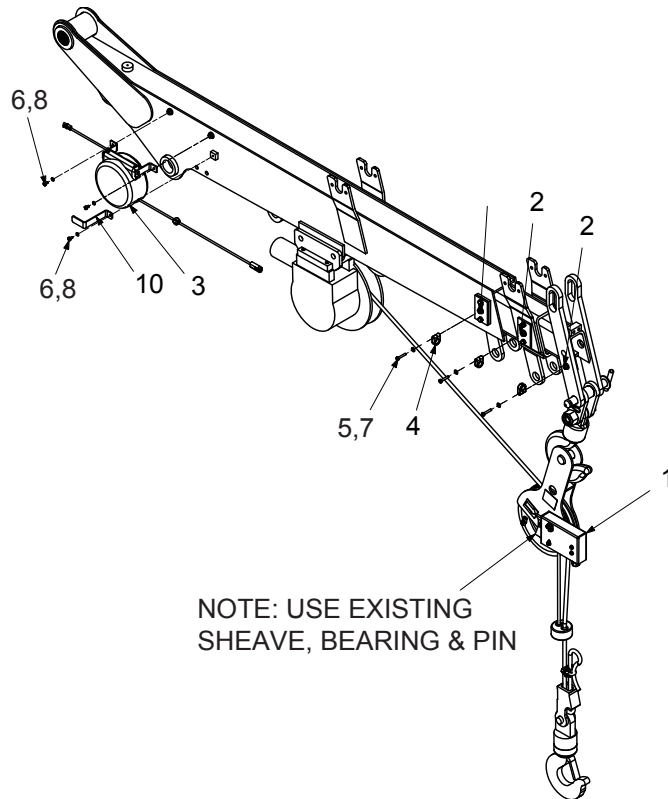
OPTION-AUGER MOUNTING KIT(51707059)

1.	51705062	HOSE ASM 1/2X48 FF	2
2.	60108961	SWIVEL LINK-AUGER	1
3.	72533101	DISCONNECT COUPLER 3/8FPT	1
4.	72533102	DISCONNECT NIPPLE 3/8FPT	1
5.	72053670	ADAPTER 3/8MPT 3/4MJIC	4



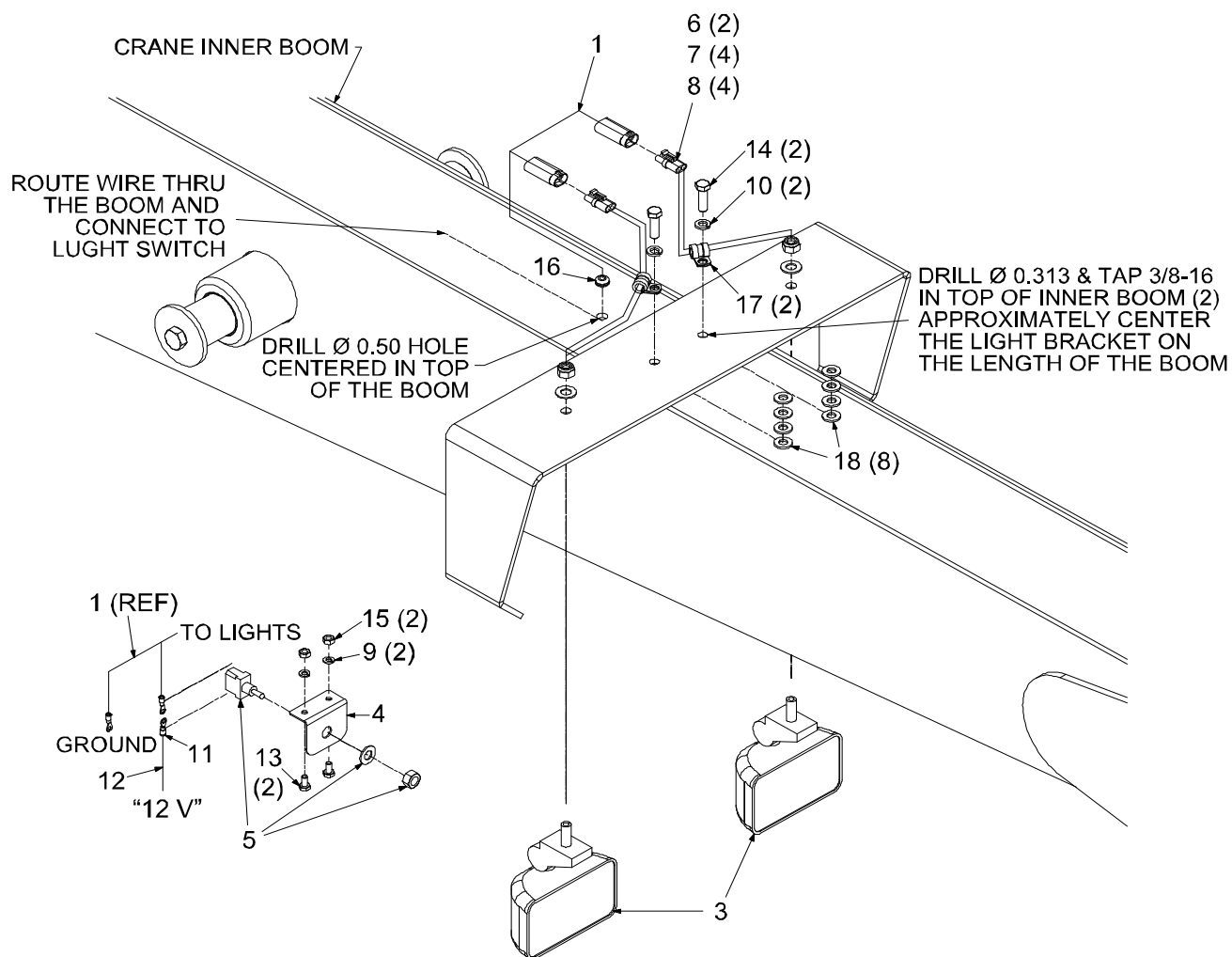
TWO-BLOCK DAMAGE PREVENTION KIT (51724350 / DWG 99905344)

ITEM	PART NO.	DESCRIPTION	QTY
1.	51724375	YOKE-TWO-BLK DMG PREV ASM	1
2.	72661693	BLOCK-TPD .25-20X .44X 0.91DIA	5
3.	51724374	CORD REEL ASM	1
4.	70034381	SUPPORT	3
5.	72060006	CAP SCR .25-20X 1.50 HH GR5 Z	3
6.	72060000	CAP SCR .25-20X .50 HH GR5 Z	3
7.	72063001	WASHER .25 FLAT	3
8.	72063049	WASHER .25 LOCK	3
9.	60107237	BLOCK-TPD .25-20 X 1 X 1 X .5	1
10.	60138820	BRACKET	1



OPTION - LIGHT KIT (31717218)

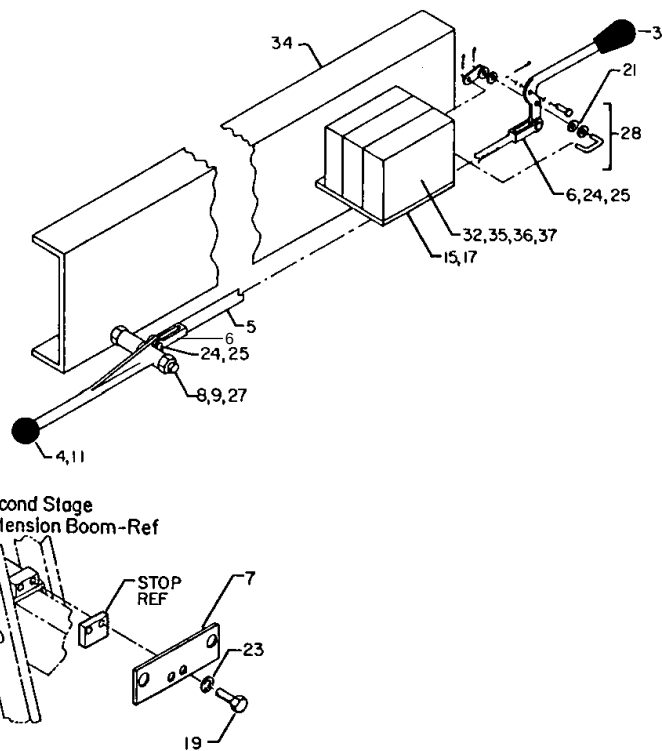
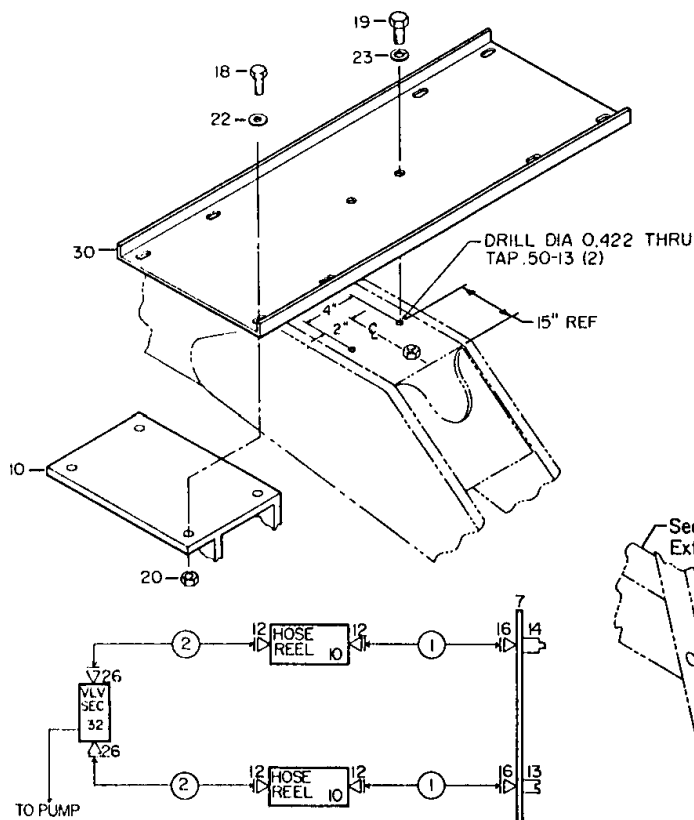
1.	51717219	CABLE ASM- FLOOD LIGHTS	1
2.	60107762	GUARD	1
3.	77040424	FLOOD-LT-COMP WORK LAMP	2
4.	60103535	SWITCH BRACKET - 1 HOLE	1
5.	77041345	TOGGLE SWITCH	1
6.	77044574	CONNECTOR	2
7.	77044550	TERMINAL-F 18-20 GA	4
8.	70394069	SEAL CABLE CONNECTOR	4
9.	72063049	WASHER 1/4 LOCK	2
10.	72063051	WASHER 3/8 LOCK	2
11.	77040000	TERMINAL, RING #10 STUD 16-14	1
12.	89044274	WIRE-BLACK STRD TYPE	36"
13.	72060000	CAP SCR 1/4-20 X 1/2 HH GR5	2
14.	72060044	CAP SCR 3/8-16 X 3/4 HH GR5	2
15.	72062000	NUT 1/4-20 HEX ZINC	2
16.	76391200	GROMMET-RUBBER .56	1
17.	72661312	CLAMP-.50 LOOP CUSHIONED	2
18.	72063003	WASHER .38 FLAT	8



OPTION -AUGER HOSE REEL KIT-V20 (51707805)

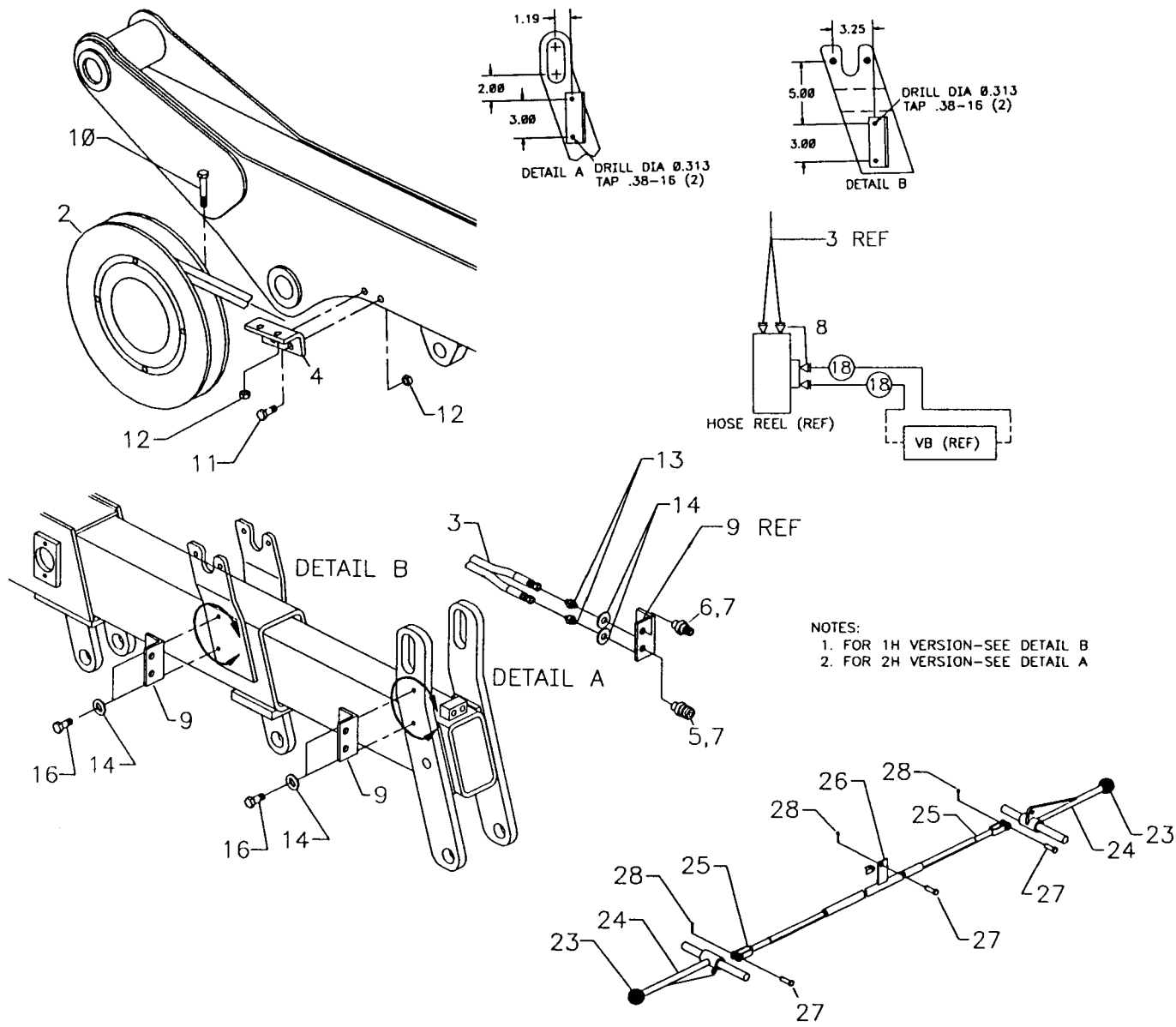
ITEM	PART NO.	DESCRIPTION	QTY
1.	51704918	HOSE ASM 1/2X282 FF	2
2.	51703664	HOSE ASM 1/2X228 FF	1
3.	60025240	CONTROL HANDLE	1
4.	70029451	CONTROL HANDLE	1
5.	60107739	CONTROL ROD F	1
6.	52704745	CONTROL ROD M	2
7.	60118684	BULKHEAD PLATE	1
8.	72060157	CAP SCR 5/8-11X4-1/2 HH GR8	1
9.	72062091	NUT 5/8-11 LOCK	1
10.	70731877	HOSE REEL	2
11.	71039096	KNOB	1
12.	72053497	ADAPTER 1/2MPY 3/4MJIC	4
13.	72533101	DISCONNECT COUPLER 3/8FPT	1
14.	72533102	DISCONNECT NIPPLE 3/8FPT	1
15.	60111589	VB MTG PLATE	1
16.	72053670	ADAPTER 3/8MPT 3/4MJIC	2

17.	60111573	GUSSET	2
18.	72060047	CAP SCR 3/8-16X1-1/4 HH GR5	8
19.	72060093	CAP SCR 1/2-13X1-1/2 HH GR5	4
20.	72062103	NUT 3/8-16 LOCK	8
21.	72063001	WASHER 1/4 WRT	4
22.	72063003	WASHER 3/8 WRT	8
23.	72063053	WASHER 1/2 LOCK	4
24.	72066168	COTTER PIN 3/32X3/4	2
25.	72066338	CLEVIS PIN 5/16X1	2
26.	72532666	ELBOW 3/4MSTR 3/4MJIC XLG	2
27.	60030069	SPACER 5/8X1X1-3/4	1
28.	94731839	LINK & PIN KIT	1
30.	60111412	HOSE REEL MTG BRACKET	1
32.	51707856	VALVEBANK V20 1-SECTION	1
34.	99900183	VB MTG MODIFICATION DWG	1
35.	72060033	CAP SCR 5/16-18X3 HH GR5	3
36.	72063002	WASHER 5/16 WRT	3
37.	72062109	NUT 5/16-18 LOCK	3



OPTION-SGL HOSE REEL KIT (31712487)

ITEM	PART NO.	DESCRIPTION	QTY			
2.	70732864	HOSE REEL-RH	1	11.	72060093	CAP SCR 1/2-13X1-1/2 HHGR5 2
3.	51393812	HOSE ASM 1/4X300 TWIN FF	1	12.	72062080	NUT 1/2-13 LOCK 4
4.	60117715	HOSE REEL MTG BRACKET	1	13.	72053499	ADAPTER 1/4MPT #4MJIC 2
5.	72533380	DISCONNECT COUPLER 1/4NPT	1	14.	72063003	WASHER 3/8 WRT 4
6.	72533382	DISCONNECT NIPPLE 1/4NPT	1	16.	72060044	CAP SCR 3/8-16X3/4 HHGR5 2
7.	72533381	CAP	2	18.	51708885	HOSE ASM 1/4X229 FF 2
8.	72532353	ADAPTER #6MSTR #4MJIC	4	23.	71039096	KNOB 2
9.	60115137	ANGLE	1	24.	70029451	CONTROL HANDLE 2
10.	72060097	CAP SCR 1/2-13X3 HHGR5	2	25.	52704745	CONTROL ROD-M 2
				26.	52704744	CONTROL ROD-F 1
				27.	72066338	CLEVIS PIN 5/16X1 3
				28.	72066168	COTTER PIN .09X.75 3

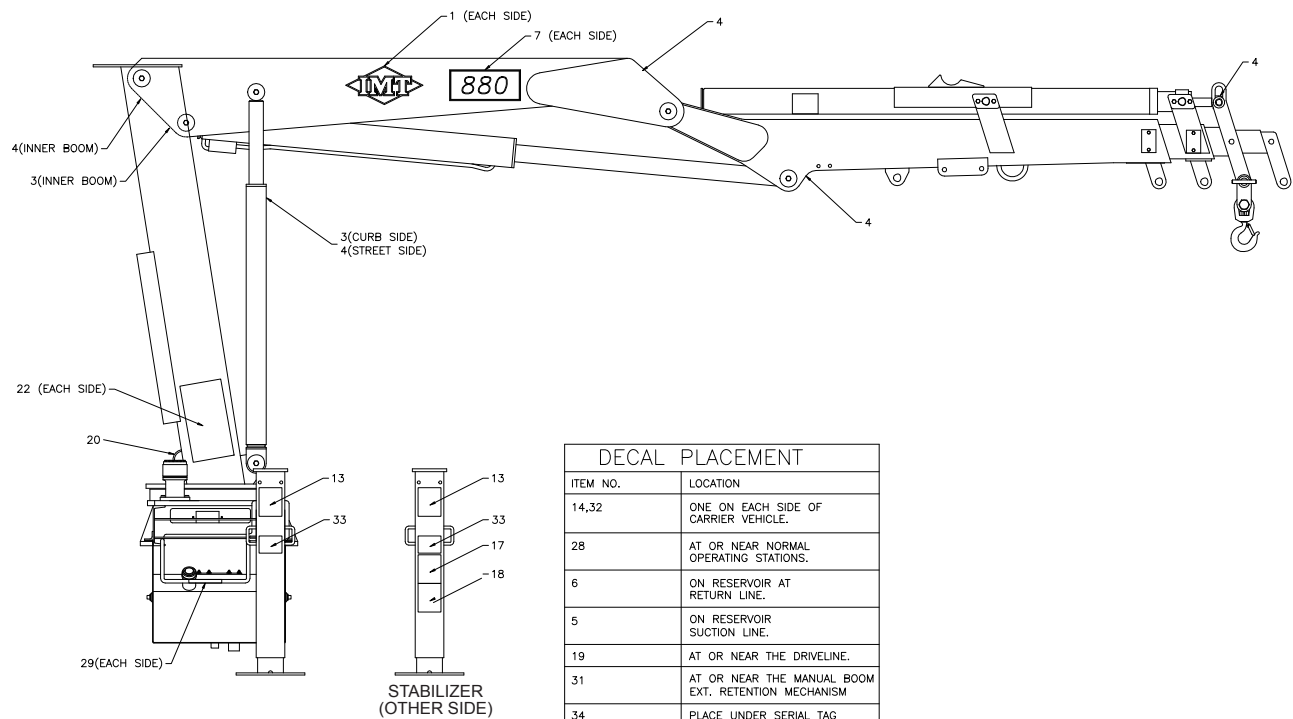


**DECAL KIT-MODEL 880-2H1M
(95711798-1)**

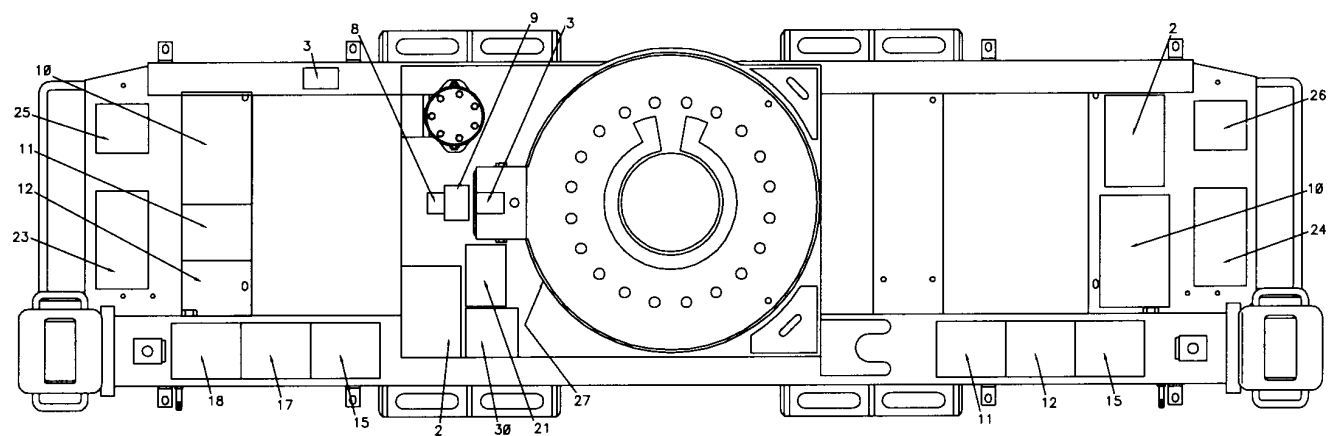
1.	70029251	IMT DIAMOND	2
2.	70391583	DECAL-SETUP/STOW	2
3.	70391612	DECAL-GREASE WEEKLY LH	4
4.	70391613	DECAL-GREASE WEEKLY RH	5
5.	70392108	DECAL-SUCTION LINE	1
6.	70392109	DECAL-RETURN LINE	1
7.	70393760	DECAL-880 IDENTIFICATION	2
8.	70392213	DECAL-CAUTION WASH/WAX	1
9.	70392524	DECAL-ROTATE/GREASE	1
10.	70392813	DECAL-DGR ELECTROCUTION	2
11.	70392814	DECAL-WARN OPERATOR	2
12.	70392815	DECAL-WARN OPERATION	2
13.	70392864	DECAL-DWARN STAB STD CLR	2
14.	70392865	DECAL-DGR ELECTROCUTION	4
15.	70392866	DECAL-WARN OPER COND	2

3-50

17.	70392888	DECAL-WARN OPER RESTRICT	2
18.	70392890	DECAL-DGR STOW/UNFOLD	2
19.	70392891	DECAL-DANGER DRIVELINE	2
20.	70392982	DECAL-CONTACT IMT	1
21.	71039134	DECAL-CAUTION OIL LEVEL	1
22.	71392729	CAPACITY PLACARD- 2 HYDEXT	2
23.	71392255	DECAL-CTRLS STREETSIDE	1
24.	71392256	DECAL-CTRLS CURBSIDE	1
25.	71392257	DECAL-STAB PWR DN SS	1
26.	71392258	DECAL-STAB PWR DN CS	1
27.	71392365	DECAL-ROTATIONAL ALIGNMENT	1
28.	70392889	DECAL-DGR RC ELECTRO LG	2
29.	70394190	DECAL-CAUTION NOT A STEP	2
30.	70394189	PLACARD-OIL REC	1
31.	70394443	DECAL-DGR FREEFALL BOOM	1 REF
32.	70392868	DECAL-DGR CR LOADLINE	4
33.	70392863	DECAL-DGR HOIST PERS	2
34.	70395323	DECAL-ASME/ANSI B30.22	1
35.	72042097	LEVEL	2

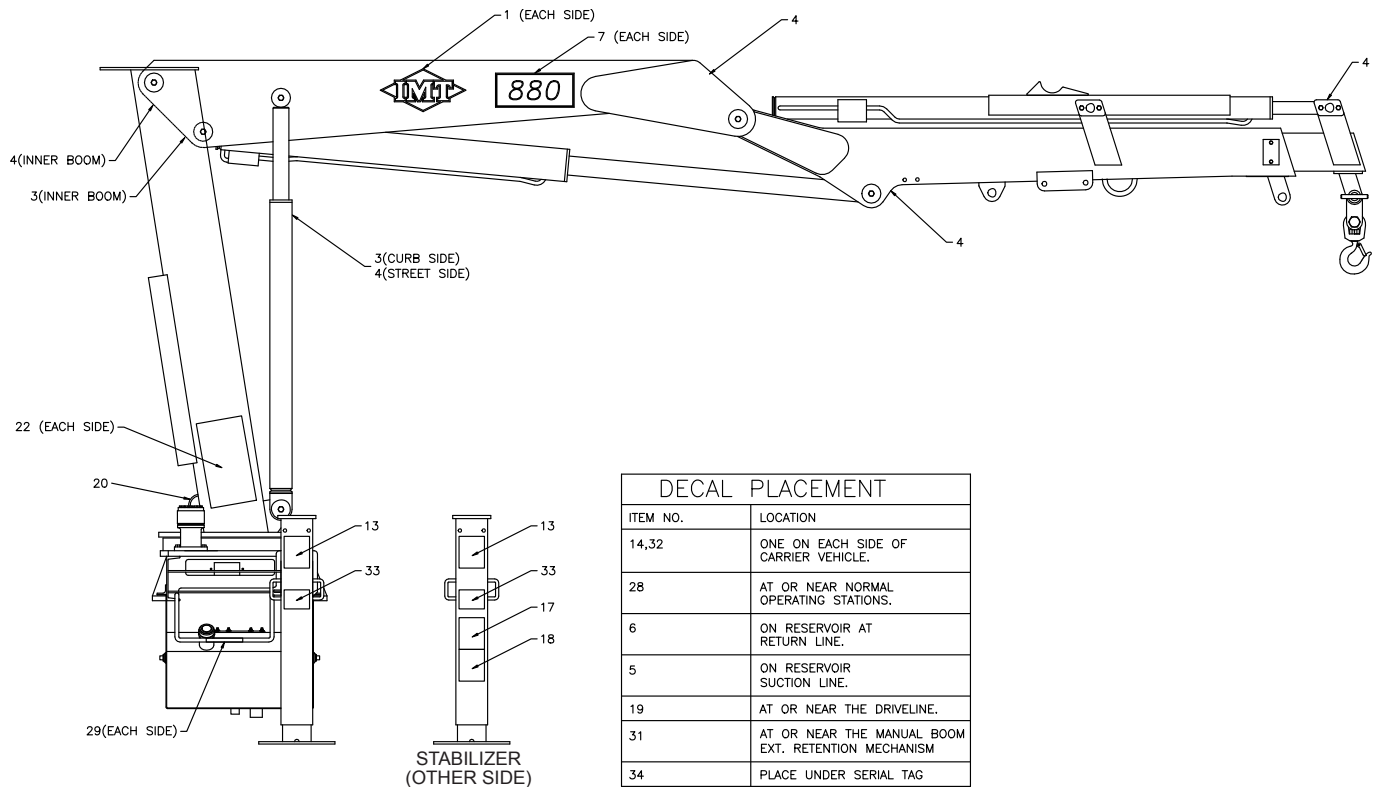


NOTE: PLACE ITEM #35, LEVEL, ON FRONT AND SIDE OF CRANE BASE.

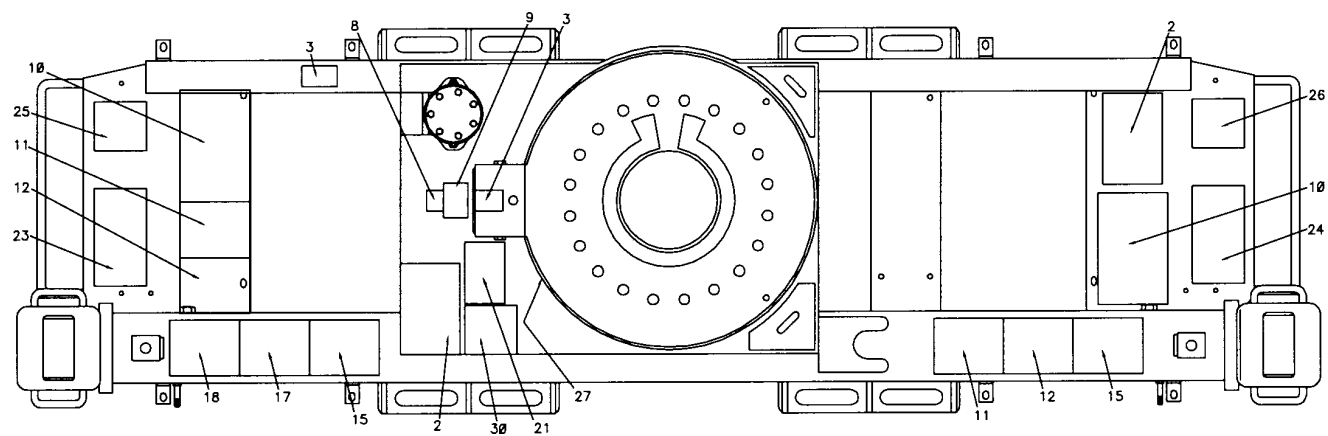
**DECAL KIT-MODEL 880-2H1M
(95711798-2)**

DECAL KIT-MODEL 880-1H (95711799-1)

1. 70029251	IMT DIAMOND	2	18. 70392890	DECAL-DGR STOW/UNFOLD	2
2. 70391583	DECAL-SETUP/STOW	2	19. 70392891	DECAL-DANGER DRIVELINE	2
3. 70391612	DECAL-GREASE WEEKLY LH	5	20. 70392982	DECAL-CONTACT IMT	1
4. 70391613	DECAL-GREASE WEEKLY RH	4	21. 71039134	DECAL-CAUTION OIL LEVEL	1
5. 70392108	DECAL-SUCTION LINE	1	22. 71392730	CAPACITY PLACARD- 1 HYDEXT2	
6. 70392109	DECAL-RETURN LINE	1	23. 71392255	DECAL-CTRLS STREETSIDE	1
7. 70393760	DECAL-880 IDENTIFICATION	2	24. 71392256	DECAL-CTRLS CURBSIDE	1
8. 70392213	DECAL-CAUTION WASH/WAX	1	25. 71392257	DECAL-STAB PWR DN SS	1
9. 70392524	DECAL-ROTATE/GREASE	1	26. 71392258	DECAL-STAB PWR DN CS	1
10. 70392813	DECAL-DGR ELECTROCUTION	2	27. 71392365	DECAL-ROTATIONAL ALIGNMENT	1
11. 70392814	DECAL-WARN OPERATOR	2	28. 70392889	DECAL-DGR RC ELECTRO LG	2
12. 70392815	DECAL-WARN OPERATION	2	29. 70394190	DECAL-CAUTION NOT A STEP	2
13. 70392864	DECAL-DWARN STAB STD CLR	2	30. 70394189	PLACARD-OIL REC	1
14. 70392865	DECAL-DGR ELECTROCUTION	4	31. 70394443	DECAL-WARN FALL BOOM	1REF
15. 70392866	DECAL-WARN OPER COND	2	32. 70392868	DECAL-WARN CR LOADLINE	4
			33. 70392863	DECAL-WARN HOIST PERS	2
			34. 70395323	DECAL-ASME/ANSI B30.22	1
17. 70392888	DECAL-WARN OPER RESTRICT	2	35. 72042097	LEVEL	2



NOTE: PLACE ITEM #35, LEVEL, ON FRONT AND SIDE OF CRANE BASE.

DECAL KIT-MODEL 880-1H (95711799-2)

KIT-HYD OVERLOAD 3F (51717129)

1.	72532657	TEE-SWVL NUT RUN JIC#8	1
2.	72532658	ELBOW #8MJIC #8FJIC SW	1
3.	73540085	VALVE BLOCK ASM	1
4.	72532358	ADPTR-#8MSTR #8MJIC	3
5.	73054426	VALVE	1
6.	72533374	TEE-SWVL NUT RUN JIC#6	2
7.	72532950	TEE-SVEL NUT RUN JIC#12	1
8.	72532696	ELBOW #12MJIC #12FJIC SW	1
9.	72532972	ADPTR #8MJIC #12FJIC	1
10.	72532772	ELBOW #6MJIC #6FJIC SW	2
11.	72532141	PLUG-STR HEX HD STL 3/4THD	3
12.	51712878	HOSE-FF 3/8 X 48.00	2
13.	51705377	HOSE-FF 3/8 X 48.00	2
14.	72532356	ADPTE #8MSTR #6MJIC	2
15.	51703701	HOSE ASM-FF 3/8 X 10.00	2
16.	72060034	CAP SCR 5/16-18 X 3.25 HH GR5	3
17.	72062109	NUT 5/16-18 HEX NYLOC	3
18.	72532360	ADPTR-#12MSTR #8MJIC	1
19.	77441025	HARNESS	1

NOTES:

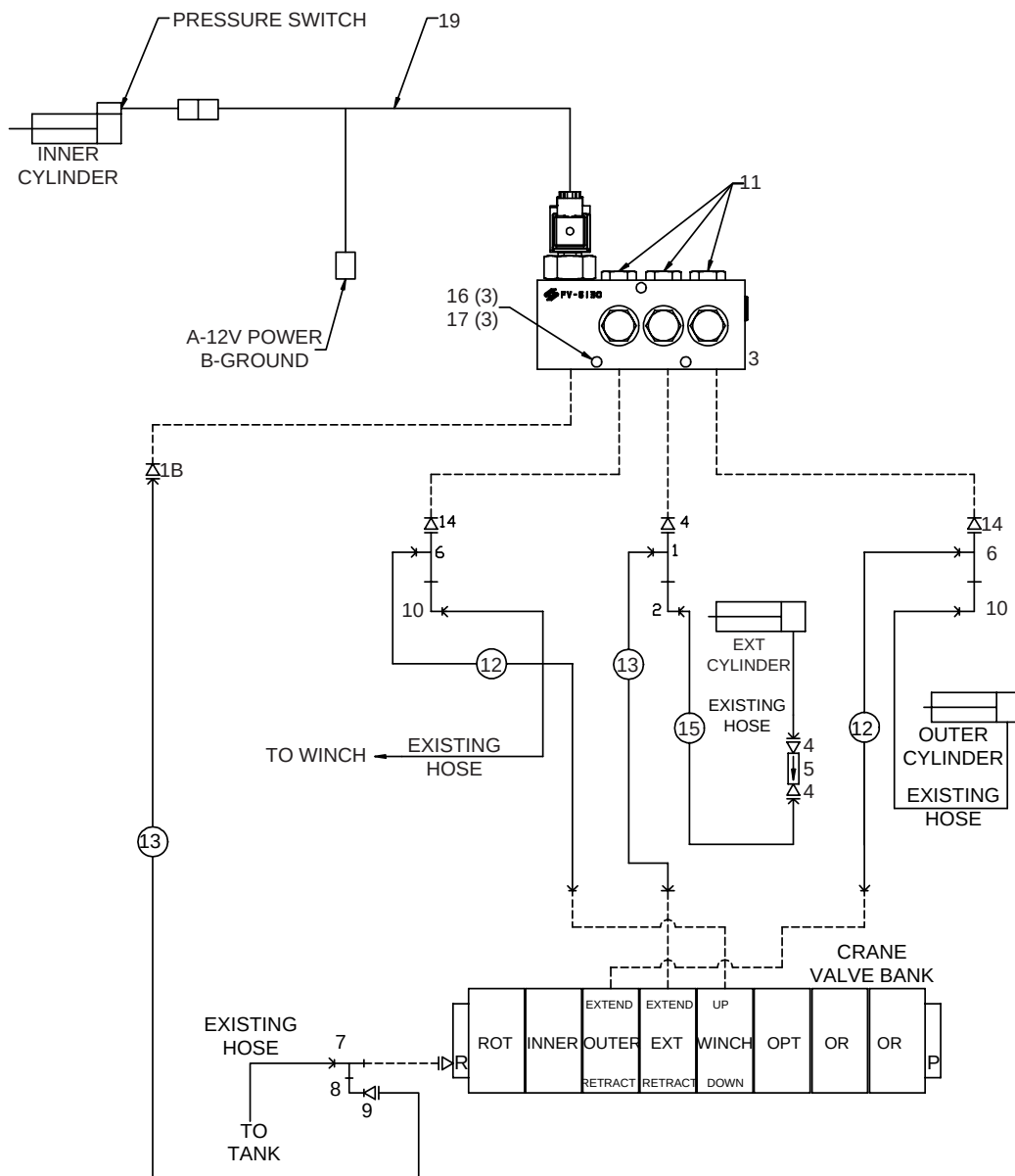
1. This system functions such that when the inner cylinders are overloaded, the pressure switch, mounted on the inner cylinder, will activate the solenoid dump valve; thus dumping oil to "tank", cylinder "extend", or winch "up" functions, which will not allow pressure to build for these functions. This system is based on the fact that the oil will take the path of least resistance.

2. The functions that will shut down, if overloaded, include:

- Outer boom "extend"
- Extension cylinder "extend"
- Winch "up"

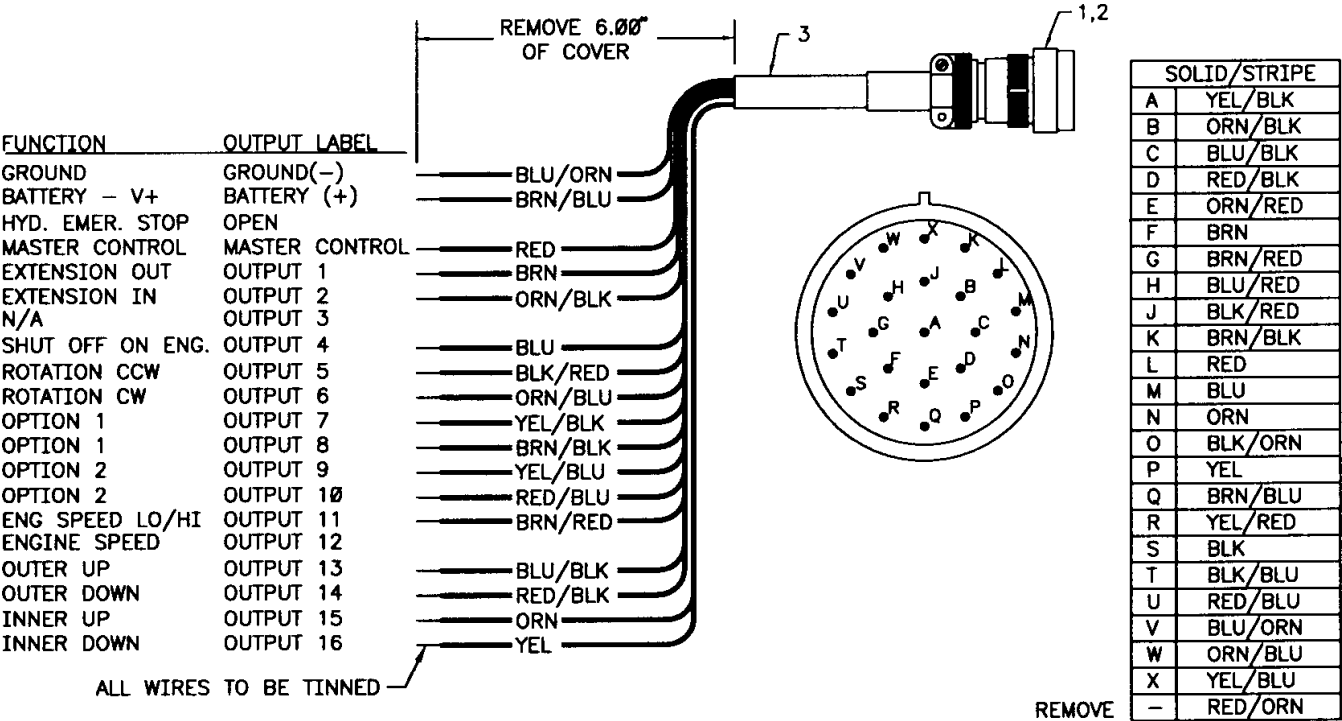
3. Install a relief valve (#73054426, 700 psi) in the extend line of the extension cylinder so cylinder will not extend when the dump system is activated.

4. Use this kit in conjunction with electric capacity kit.



CABLE ASM-18GA/24 WIREX115
(51714624)

ITEM	PART NO.	DESCRIPTION	QTY
1.	77044621	PIN	24
2.	77044579	CONNECTOR	1
3.	89044100	CABLE 18GA/24 WIREX115	1

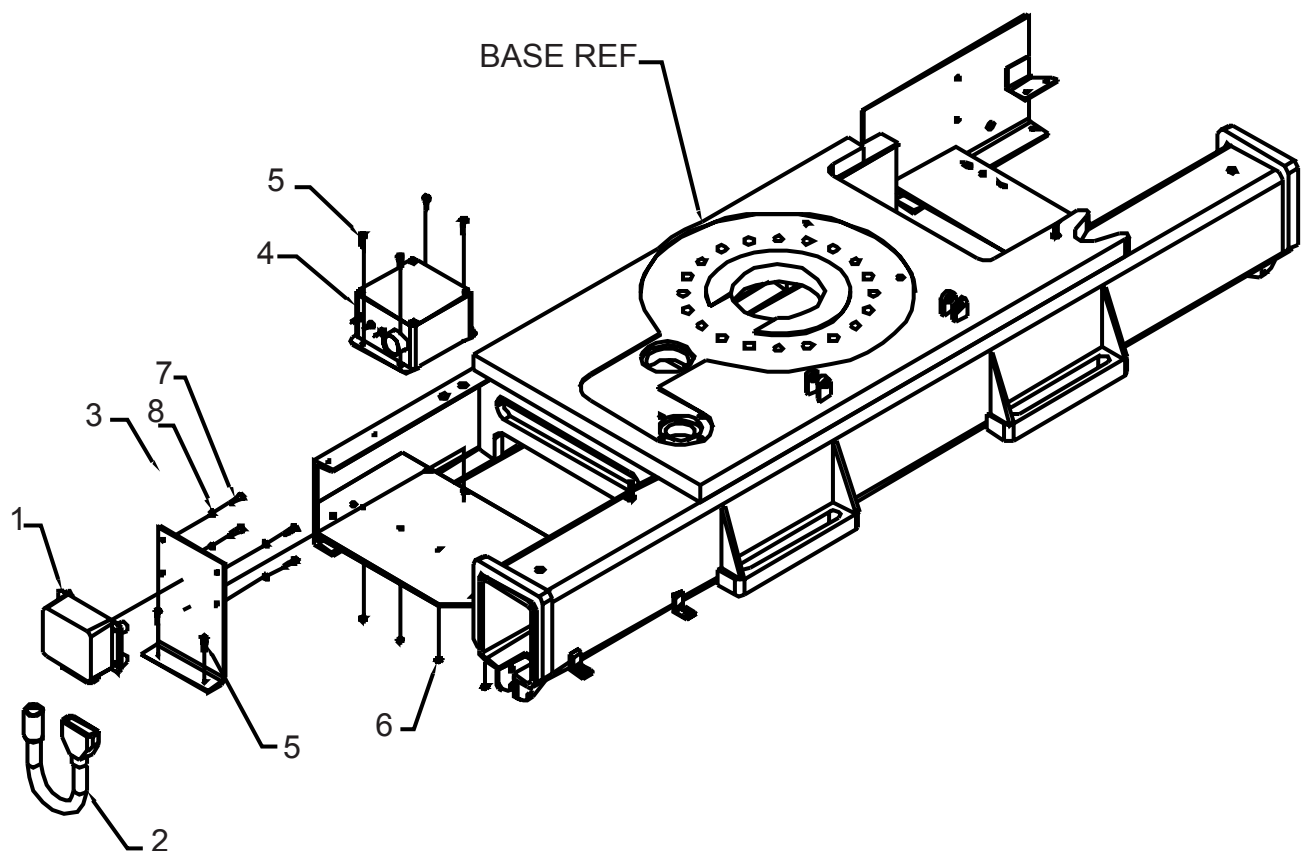


RADIO REMOTE RETROFIT KIT (DWG. 99903330-1) (KIT 91717058)

1.	73733600	RADIO REMOTE KIT	1
2.	77045894	HARNESS	1
3.	60123676	MOUNTING PLATE	1
4.	51717059	JIC BOX ASM	1
5.	72060005	CAP SCR 1/4-20X1.25	6
6.	72062104	NUT 1/4-20HEX NYLOC ZINC	6
7.	72601761	CAP SCR 6MMX12MMX1.00	4
8.	72601762	WASHER LOCK 6MM	4
10.	73054876	VALVE-PROP N PRIORITY FLOW 1REF	
11.	72060051	CAP SCR 3/8-16X2.25	2
12.	72062103	NUT 3/8-16 HEX NYLOC ZINC	2
13.	77041251	RELAY	3
14.	77041237	SOLENOID	1
15.	51704784	CABLE ASM	1

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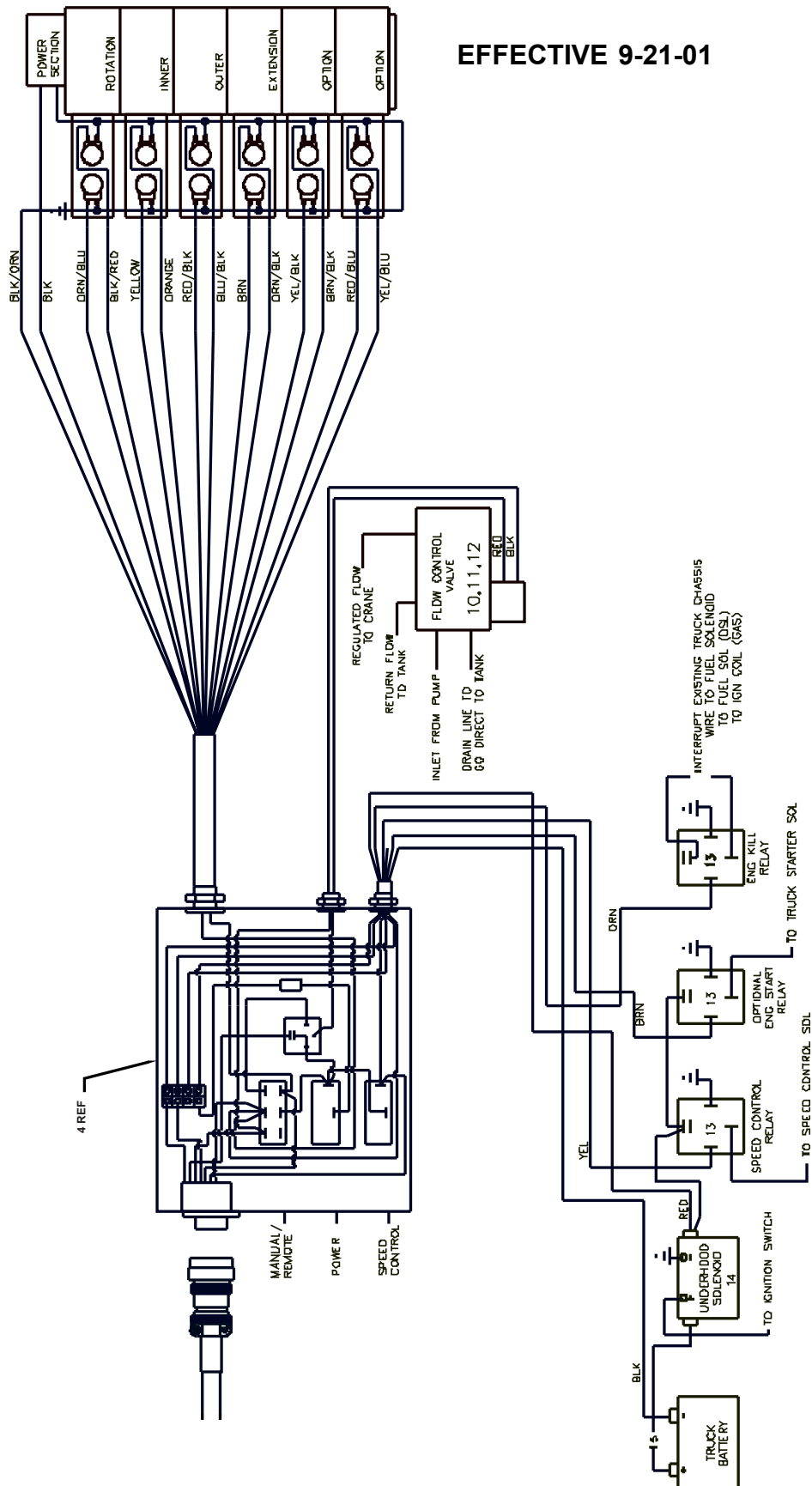
EFFECTIVE 9-21-01



ELEC. SCHEMATIC - RADIO REMOTE RETROFIT (99903330-2)

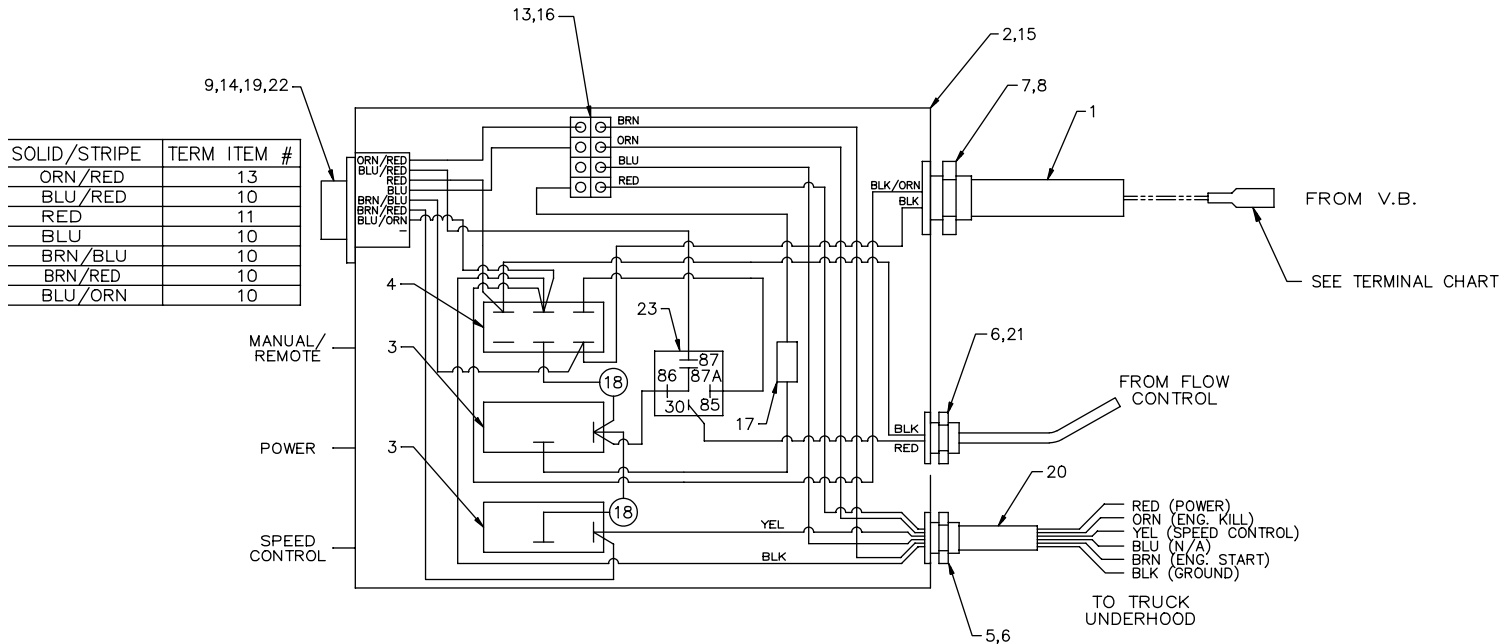
PARTS LIST ON PREVIOUS PAGE

EFFECTIVE 9-21-01

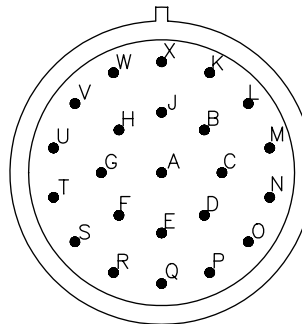


JIC BOX ASM-RADIO REMOTE (51717059)

1.	89044100	CABLE 18GA/24	7.83 FT	11.	77040282	TERMINAL PIGBAC	6
2.	90714496	JIC BOX ASM 6X6X6	1	12.	77044668	SEAL PLUG	2
3.	77041345	TOGGLE SWITCH (WAS 77041237)2		13.	77040051	TERMINAL SPRSPADE	6
4.	77041354	TOGGLE SWITCH	1	14.	77044667	CAP PLUG	1
5.	77044018	CONNECTOR 1/2 STR RLF	3	15.	70393257	DECAL 6X6X4 JIC BOX	1
6.	77044201	NUT ELEC 1/2 LOCK	3	16.	77044341	TERMINAL BLOCK 4 CONTACT	1
7.	77044196	CONNECTOR 3/4 STR RLF	1	17.	77041056	IN-LINE 20 AMP FUSE	1
8.	77044202	NUT ELEC 3/4 LOCK	1	18.	89044232	WIRE 14GA RED	.5 FT
9.	77044620	CONNECTOR	1	19.	77044646	WASHER LOCK	1
10.	77040186	TERMINAL FSLPON 1.25TAB	14	20.	89044354	CABLE 14GA/6	7 FT
				21.	77044468	CONNECTOR 1/2 STR RLF	1
				22.	77044645	NUT DEUTSCH	1
				23.	77041251	RELAY-12V 30 AMP NOM/ 40 AMP MAX	1



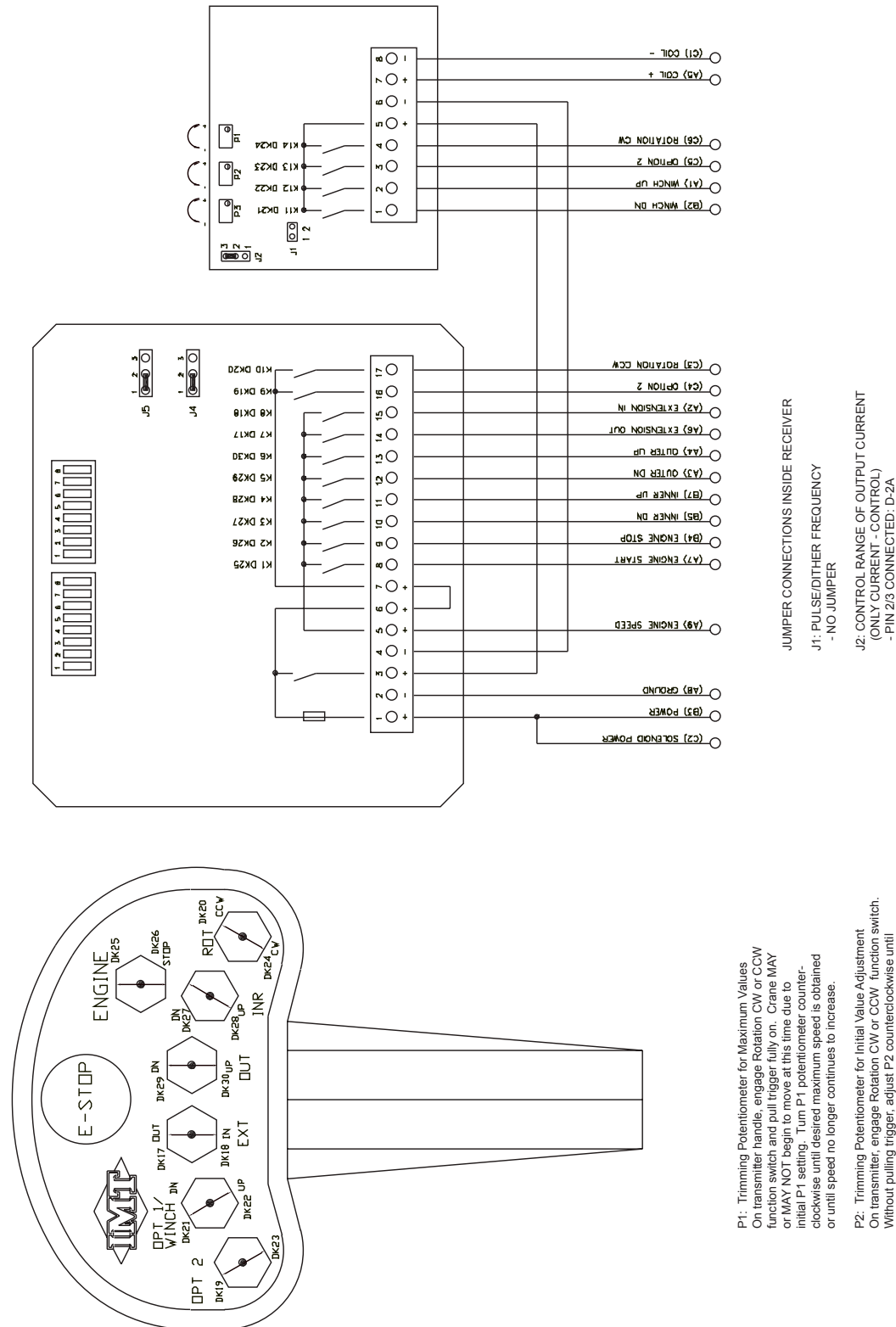
SOLID/STRIPE	TERM ITEM NO
A YEL/BLK	10
B ORN/BLK	10
C BLU/BLK	10
D RED/BLK	10
E ORN/RED	—
F BRN	10
G BRN/RED	—
H BLU/RED	—
J BLK/RED	10
K BRN/BLK	10
L RED	—
M BLU	—
N ORN	10
O BLK/ORG	10
P YEL	10
Q BRN/BLU	—
R YEL/RED	—
S BLK	10
T BLK/BLU	—
U RED/BLU	10
V BLU/ORN	—
W ORN/BLU	10
X YEL/BLU	10
— RED/ORN	—

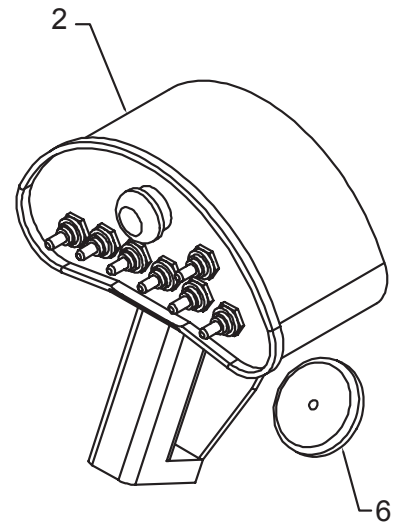
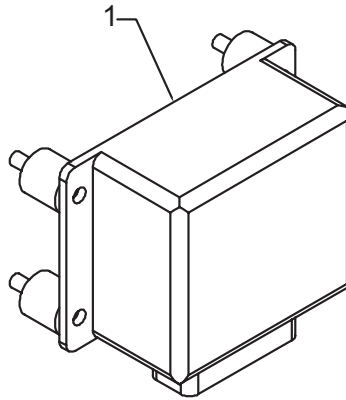
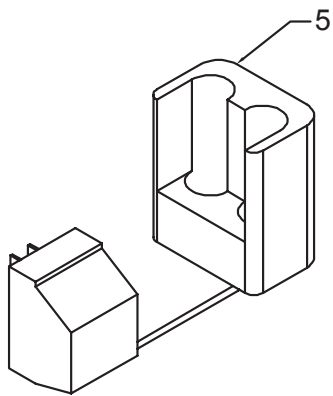
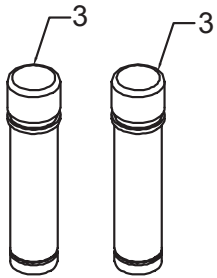


RADIO REMOTE KIT (73733600-1)

- | | | | |
|----|----------|--------------------------------|---|
| 1. | 73733588 | RADIO RMT RECEIVER | 1 |
| 2. | 73733589 | RADIO RMT TRANSMITTER | 1 |
| 3. | 70146100 | BATTERY-VERSA PAK 3.6V | 2 |
| 5. | 70146279 | BATTERY CHARGER (EFF. 10/02) | 1 |
| | 70146102 | BATTERY CHARGER (THRU 9/30/02) | 1 |
| 6. | 70146103 | MAGNET- RADIO RMT TRANSM. | 1 |

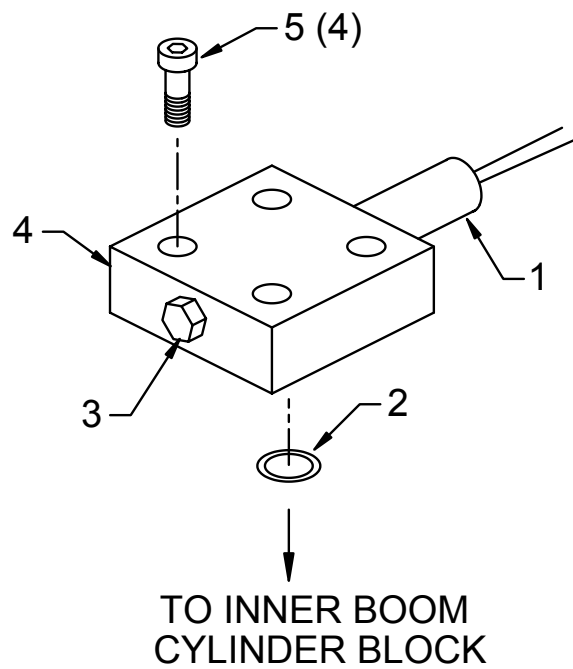
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**CAPACITY SHUTDOWN KIT - 2800 PSI
(31717514)**

1.	77041543	PRESSURE SWITCH	1
2.	7Q072015	O-RING 9/16 X 11/16 X 1/16	1
3.	72532140	PLUG-STR HEX HS STL 9/16	1
4.	60025221	MANIFOLD-CAP ALERT	1
5.	72060731	CAP SCR 5/16-18 X 3/4 SH Z	4



SECTION 4. GENERAL REFERENCE

INSPECTION CHECKLIST 3

WIRE ROPE INSPECTION 7

HOOK INSPECTION 7

HOLDING VALVE INSPECTION 8

ANTI-TWO BLOCKING DEVICE INSPECTION 8

TORQUE DATA CHART - DOMESTIC 9

TORQUE DATA CHART - METRIC 10

TURNTABLE BEARING FASTENER TIGHTENING SEQUENCE 11

TURNTABLE BEARING INSPECTION FOR REPLACEMENT 12

[illegible]

NOTICE

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

OWNER/COMPANY

CONTACT PERSON

CRANE MAKE & MODEL

CRANE SERIAL NUMBER

UNIT I.D. NUMBER

LOCATION OF UNIT

Inspection Checklist**CRANES****1**

REV: 11-22-11

TYPE OF INSPECTION (check one)

☐

DAILY (if deficiency found)

☐

QUARTERLY

☐

MONTHLY

☐

ANNUAL

DATE INSPECTED

HOUR METER READING (if applicable)

INSPECTED BY (print)

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 deployed according to the crane manufacturer’s directions.

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 (which ever 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 months or 300 hours of normal operation (which ever 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 (which ever 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.

FREQUENCY	ITEM	KEY	✓ = 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.)	STATUS ✓, R, X, NA
			INSPECTION DESCRIPTION		
D	1	Labels	All load charts, safety & warning labels, & 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 & cracks.		
D	4	Station	Control and operator's station for dirt, contamination by lubricants, & foreign materials.		
D	5	Hyd System	Hydraulic system (hoses, tubes & fittings) for leakage & proper oil level.		
D	6	Hook	Presence & proper operation of hook safety latches.		
D	7	Wire Rope	Inspect for apparent deficiencies per applicable requirements and manufacturer's specifications.		
D	8	Pins	Proper engagement of all connecting pins & pin retaining devices.		
D	9	General covers.	Overall observation of crane for damaged or missing parts, cracked welds & presence of safety		
D	10	Operation	During operation, observe crane for abnormal performance, unusual wear (loose pins, wire rope damage, etc.). If observed, discontinue use & determine cause & severity of hazard.		
D	11	Remote Ctrl's	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-blocking or two-block prevention devices to check for proper operation.		

Inspection Checklist**CRANES****2**

FREQUENCY	ITEM	KEY	✓ = 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.)	STATUS ✓, R, X, NA
			INSPECTION DESCRIPTION		
D	14	Tires	Check tires (when in use) for proper inflation and condition.		
D	15	Ground conditions around and around stabilizers and supporting foundations, ground water accumulation, or similar.	Ground conditions around the equipment for proper support, including ground settling under and		
D	16	Level Position	The equipment for level position within tolerances specified by the equipment manufacturer's recommendations, both before each shift and after each move and setup.		
D	17	Operator Cab Windows	Significant cracks, breaks, or other deficiencies that would hamper the operator's view.		
D	18	Rails, rail stops, clamps, supporting surfaces.	Rails, rail stops, rail clamps and supporting surfaces when the equipment has rail traveling.		
D	19	Safety Devices	Safety devices and operational aids for proper operation.		
D	20	Electrical	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 & welds. Damage to rod & case.		
M	25	Valves	Holding valves for proper operation.		
M	26	Valves	Control valve for leaks at fittings & between sections.		
M	27	Valves	Control valve linkages for wear, smoothness of operation & 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 excess 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 & cracks.		
M	32	Pins	All pins for proper installation & condition.		
M	33	Hardware	All bolts, fasteners & retaining rings for tightness, wear & corrosion		
M	34	Wear Pads	Condition of wear pads.		
M	35	Pump & Motor mounting bolts.	Hydraulic pumps & motors for leakage at fittings, seals & between sections. Check tightness of		
M	36	PTO	Transmission/PTO for leakage, abnormal vibration & noise, alignment & mounting bolt torque.		
M	37	Hyd Fluid	Quality of hydraulic fluid and for presence of water.		
M	38	Hyd Lines	Hoses & tubes for leakage, abrasion damage, blistering, cracking, deterioration, fitting leakage & secured properly.		
M	39	Hook	Load hook for abnormal throat distance, twist, wear & cracks.		
M	40	Wire Rope	Condition of load line.		
M	41	Manual	Presence of operator's manuals 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 & corrosion.		
	49		● Base		
	50		● Stabilizer beams & 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, bearings, shafts, gears, rollers, & locking devices for wear, cracks, corrosion & distortion.		

<i>Inspection Checklist</i>			CRANES	3
FREQUENCY	ITEM	KEY	✓ = SATISFACTORY R = RECOMMENDATION (Should be considered for corrective action) NA = Not Applicable	STATUS ✓, R, X, NA
			INSPECTION DESCRIPTION	
	59		● Rotation bearing(s)	
	60		● Inner boom pivot pin(s) & retainer(s)	
	61		● Outer boom pivot pin(s) & retainer(s)	
	62		● Inner boom cylinder pin(s) & retainer(s)	
	63		● Outer boom cylinder pin(s) & retainer(s)	
	64		● Extension cylinder pin(s) & retainer(s)	
	65		● Jib boom pin(s) & retainer(s)	
	66		● Jib cylinder pin(s) & retainer(s)	
	67		● Jib extension cylinder pin(s) & retainer(s)	
	68		● Boom tip attachments	
	69		● Other	
Q	70	Hyd Lines	Hoses, fittings & tubing for proper routing, leakage, blistering, deformation & 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	
Q	77	Pumps & Motors	Pumps & 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 & leakage at welds. Rods for nicks, scores & dent s. Case for damage. Case & rod ends for damage & 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 & drums for damage, abnormal wear , abrasions & 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 pressures & relief valve settings	
A	103	Valves	Safety valve calibration for correct pressures & 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 & cracks.	
A	106	Lubrication	Gear oil change in rotation drive system per maintenance schedule.	
A	107	Hardware	Check tightness of all fasteners and bolts.	
A	108	Wear Pads	Wear pads for excessive wear .	
A	109	Loadline	Loadline for proper attachment to drum.	

Deficiency / Recommendation / Corrective Action Report

4

[illegible]

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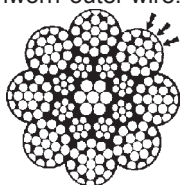
WIRE ROPE INSPECTION

Wire rope with any of the deficiencies shown below shall be removed and replaced immediately .

- A. Corrosion can be cause for replacement. Any development of corrosion must be noted and monitored closely.
- B. When there are either 3 broken wires in one strand or a total of six broken wires in all strands in any one rope lay.



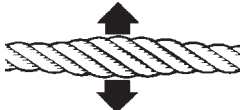
- C. When flat spots on the outer wires appear and those outside wires are less than 2/3 the thickness of the unworn outer wire.



- D. When there is a decrease of diameter indicating a core failure.



- E. When kinking, crushing, birdcaging or other distortion occurs.



- F. When there is noticeable heat damage (discoloration) of the rope by any means.



- G. When the diameter is reduced from nominal size by 1/32" or more.



- H. If a broken wire protrudes or loops out from the core of the rope.

**HOOK INSPECTION**

Hooks having any of the listed deficiencies shall be removed from service unless a qualified person approves their continued use and initiates corrective action. Hooks approved for continued use shall be subjected to periodic inspection.

A. DISTORTION**Bending / Twisting**

A bend or twist exceeding 10° from the plane of the unbent hook.

Increased Throat Opening

HOOK WITHOUT LATCH: An increase in throat opening exceeding 15% (Or as recommended by the manufacturer)

HOOK WITH LATCH: An increase of the dimension between a fully-opened latch and the tip section of the hook exceeding 8% (Or as recommended by the manufacturer)

B. WEAR

If wear exceeds 10% of the original sectional dimension. (Or as recommended by the manufacturer)

C. CRACKS, NICKS, GOUGES

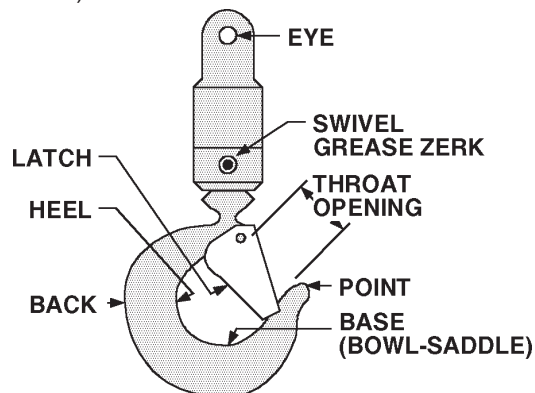
Repair of cracks, nicks, and gouges shall be carried out by a designated person by grinding longitudinally , following the contour of the hook, provided that no dimension is reduced more than 10% of its original value. (Or as recommended by the manufacturer) (A qualified person may authorize continued use if the reduced area is not critical.)

D. LATCH**Engagement, Damage & Malfunction**

If a latch becomes inoperative because of wear or deformation, and is required for the service involved, it shall be replaced or repaired before the hook is put back into service. If the latch fails to fully close the throat opening, the hook shall be removed from service or "moused" until repairs are made.

E. HOOK ATTACHMENTS & SECURING MEANS

If any indication of distortion, wear, cracks, nicks or gouges are present, unless a qualified person authorizes their use. (Or as recommended by the manufacturer)



HOLDING VALVE INSPECTION

The cylinders are equipped with holding valves that prevent sudden movement of the cylinder rods in the event of a hydraulic hose or other hydraulic component failure. The valve is checked in the following manner:

1. With a full rated load, extend the cylinder in question and kill the engine.
2. Operate the control valve to retract the cylinder. If the cylinder "creeps", replace the holding valve. If the cylinder does not "creep", the valve is serviceable.

TWO BLOCK PREVENTION DEVICE INSPECTION

(See Vol. 1, Operation, Maintenance and Repair for a complete description)

The two block prevention system halts the "winch-up" and "extension-out" crane functions before the block contacts the sheave. The two block prevention system should be checked daily as follows:

1. Examine flexible rod and weight to insure free unrestricted mechanical operation
2. Examine cord for damage, cuts or breaks. Grasp cord and pull to check operation of cord reel. The cord should retract on reel when released.
3. Start vehicle, engage PTO and slowly winch loadline up until anti-two block weight comes in contact with the hook end of the loadline cable. At the moment the weight is fully supported by the hook end, the winch up function should become non-functioning, because the two-block damage prevention switch will stop further movement.

If operation other than as described occurs, stop immediately and investigate. Failure to do so will risk damage to the cable or the crane.

Then, extend the winch cable to relieve the two-block condition, and actuate the boom extend function slowly. Again, once the weight is fully supported by the hook end, the boom extend function should become non-functioning, because the two-block damage prevention switch will stop further movement. If operation other than described occurs, stop immediately, reverse the function, and check the system.

If the anti two block function appears to be functioning normally, winch the cable down until the sensing weight swings free.

COARSE THREAD BOLTS

SIZE (DIA-TPI)	BOLT DIA (INCHES)	TIGHTENING TORQUE			
		SAE J429 GRADE 5		SAE J429 GRADE 8	
		PLAIN (FT-LBS)	PLATED (FT-LBS)	PLAIN (FT-LBS)	PLATED (FT-LBS)
5/16-18	0.3125	17	13	25	18
3/8-16	0.3750	31	23	44	33
7/16-14	0.4375	49	37	70	52
1/2-13	0.5000	75	57	105	80
9/16-12	0.5625	110	82	155	115
5/8-11	0.6250	150	115	220	160
3/4-10	0.7500	265	200	375	280
7/8-9	0.8750	395	295	605	455
1-8	1.0000	590	445	910	680
1 1/8-7	1.1250	795	595	1290	965
1 1/4-7	1.2500	1120	840	1815	1360
1 3/8-6	1.3750	1470	1100	2380	1780
1 1/2-6	1.5000	1950	1460	3160	2370

When using the torque data in the charts above, the following rules should be observed.

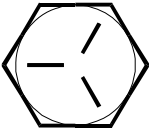
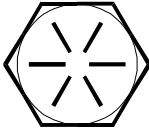
1. Bolt manufacturer's particular specifications should be consulted when provided.
2. Flat washers of equal strength must be used.
3. All torque measurements are given in foot-pounds. To convert to inch-pounds, multiply by 12.
4. Torque values specified are for bolts with residual oils or no special lubricants applied. If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphite, colloidal copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.

WARNING

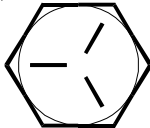
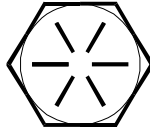
Anytime a gear-bearing bolt is removed, it must be replaced with a new bolt of the identical grade and size. Once a bolt has been torqued to 75% of its proof load and then removed, the torque coefficient may no longer be the same as when the bolt was new thus giving indeterminate clamp loads after torquing.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

TORQUE DATA CHART - DOMESTIC

FINE THREAD BOLTS

SIZE (DIA-TPI)	BOLT DIA (INCHES)	TIGHTENING TORQUE			
					
		SAE J429 GRADE 5		SAE J429 GRADE 8	
		PLAIN (FT-LBS)	PLATED (FT-LBS)	PLAIN (FT-LBS)	PLATED (FT-LBS)
5/16-24	0.3125	19	14	27	20
3/8-24	0.3750	35	26	49	35
7/16-20	0.4375	55	41	78	58
1/2-20	0.5000	90	64	120	90
9/16-18	0.5625	120	90	170	130
5/8-18	0.6250	170	130	240	180
3/4-16	0.7500	300	225	420	315
7/8-11	0.8750	445	325	670	500
1-12	1.0000	645	485	995	745
1 1/8-12	1.1250	890	670	1445	1085
1 1/4-12	1.2500	1240	930	2010	1510
1 3/8-12	1.3750	1675	1255	2710	2035
1 1/2-12	1.5000	2195	1645	3560	2670

COARSE THREAD BOLTS

SIZE (DIA-TPI)	BOLT DIA (INCHES)	TIGHTENING TORQUE			
					
		SAE J429 GRADE 5		SAE J429 GRADE 8	
		PLAIN (FT-LBS)	PLATED (FT-LBS)	PLAIN (FT-LBS)	PLATED (FT-LBS)
5/16-18	0.3125	17	13	25	18
3/8-16	0.3750	31	23	44	33
7/16-14	0.4375	49	37	70	52
1/2-13	0.5000	75	57	105	80
9/16-12	0.5625	110	82	155	115
5/8-11	0.6250	150	115	220	160
3/4-10	0.7500	265	200	375	280
7/8-9	0.8750	395	295	605	455
1-8	1.0000	590	445	910	680
1 1/8-7	1.1250	795	595	1290	965
1 1/4-7	1.2500	1120	840	1815	1360
1 3/8-6	1.3750	1470	1100	2380	1780
1 1/2-6	1.5000	1950	1460	3160	2370

When using the torque data in the charts above, the following rules should be observed.

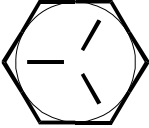
1. Bolt manufacturer's particular specifications should be consulted when provided.
2. Flat washers of equal strength must be used.
3. All torque measurements are given in foot-pounds. To convert to inch-pounds, multiply by 12.
4. Torque values specified are for bolts with residual oils or no special lubricants applied.
If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphite, colloidal copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.

WARNING

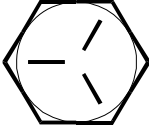
Anytime a gear-bearing bolt is removed, it must be replaced with a new bolt of the identical grade and size. Once a bolt has been torqued to 75% of its proof load and then removed, the torque coefficient may no longer be the same as when the bolt was new thus giving indeterminate clamp loads after torquing.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

TORQUE DATA CHART - METRIC

FINE THREAD BOLTS

SIZE (DIA-TPI)	BOLT DIA (INCHES)	TIGHTENING TORQUE			
					
		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	0.3750	5	4	7	5
7/16-20	0.4375	8	6	11	8
1/2-20	0.5000	12	9	17	12
9/16-18	0.5625	17	12	24	18
5/8-18	0.6250	24	18	33	25
3/4-16	0.7500	41	31	58	44
7/8-11	0.8750	62	45	93	69
1-12	1.0000	89	67	138	103
1 1/8-12	1.1250	123	93	200	150
1 1/4-12	1.2500	171	129	278	209
1 3/8-12	1.3750	232	174	375	281
1 1/2-12	1.5000	304	228	492	369

COARSE THREAD BOLTS

SIZE (DIA-TPI)	BOLT DIA (INCHES)	TIGHTENING TORQUE			
					
		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	0.3750	4	3	6	5
7/16-14	0.4375	7	5	10	7
1/2-13	0.5000	10	8	15	11
9/16-12	0.5625	15	11	21	16
5/8-11	0.6250	21	16	30	22
3/4-10	0.7500	37	28	52	39
7/8-9	0.8750	55	41	84	63
1-8	1.0000	82	62	126	94
1 1/8-7	1.1250	110	82	178	133
1 1/4-7	1.2500	155	116	251	188
1 3/8-6	1.3750	203	152	329	246
1 1/2-6	1.5000	270	210	438	328

When using the torque data in the charts above, the following rules should be observed.

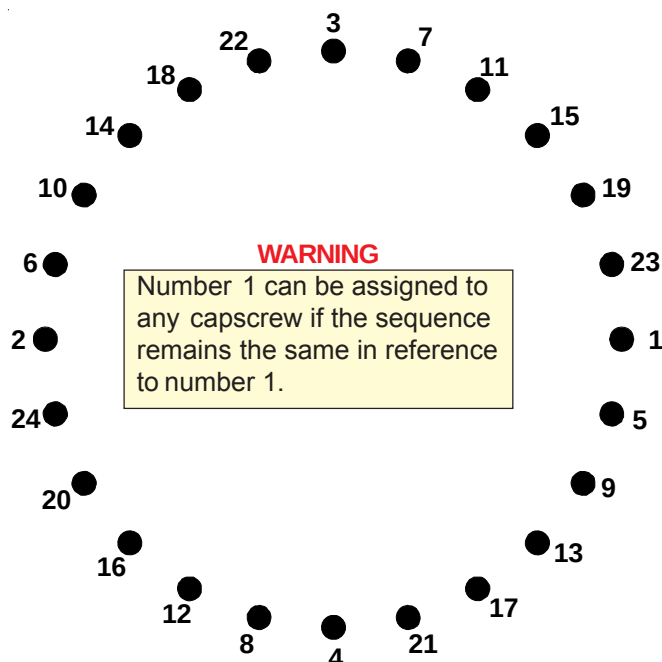
1. Bolt manufacturer's particular specifications should be consulted when provided.
2. Flat washers of equal strength must be used.
3. All torque measurements are given in kilogram-meters.
4. Torque values specified are for bolts with residual oils or no special lubricants applied.
If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphite, colloidal copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.

WARNING

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

TURNTABLE BEARING FASTENER TIGHTENING SEQUENCE

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



TIGHTENING PROCEDURE:

1. Refer to the Torque Data Chart to determine the proper torque value to apply to the size of capscrew used.
2. Follow the tightening sequence shown in the diagram. Note that the quantity of capscrews may differ from the diagram, but the sequence must follow the criss-cross pattern as shown in the diagram.
3. Torque all capscrews to approximately 40% of the specified torque value, by following the sequence.
(EXAMPLE: .40 x 265 FT-LBS = 106 FT-LBS)
(EXAMPLE-METRIC: .40 x 36 KG-M = 14.4 KG-M)
4. Repeat Step 3, but torquing all capscrews to 75% of the specified torque value. Continue to follow the tightening sequence.
(EXAMPLE: .75 x 265 FT-LBS = 199 FT-LBS)
(EXAMPLE-METRIC: .75 x 36 KG-M = 27 KG-M)
5. Using the proper sequence, torque all capscrews to the listed torque value as determined from the Torque Data Chart.

TURNTABLE BEARING INSPECTION FOR REPLACEMENT

Before a bearing is removed from a crane for inspection, one of the following conditions should be evident:

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

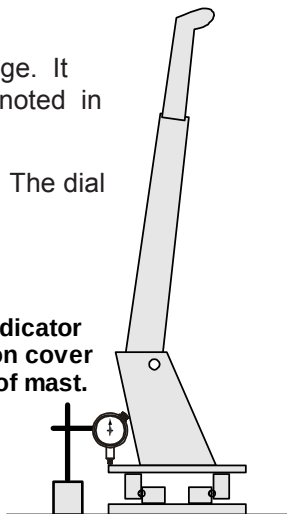
If none of the above conditions exists, the bearing is functioning properly and need not be replaced. But, if one or more of the above conditions exists, inspection may be required. Limits are measured in "TILT" which is dependent on the internal clearances of the bearing. TILT is the most practical determination of a bearing's internal clearance once mounted on a crane.

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

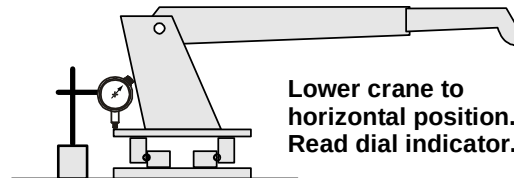
TEST PROCEDURE

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

Set up dial indicator to 0" on pinion cover at back side of mast.



Lower crane to horizontal position. Read dial indicator.



COMPARISON CHART - MODEL TO MEASURED TILT DIMENSION

NOTE THE FIGURES LISTED IN THIS CHART ARE SERVICE GUIDELINES AND DO NOT, IN THEMSELVES, REQUIRE THAT THE BEARING BE INSPECTED. IF THERE IS REASON TO SUSPECT AN EXCESS OF BEARING WEAR AND THE MEASURED TILT DIMENSION EXCEEDS THE DIMENSION LISTED, REMOVE THE BEARING FOR INSPECTION.	IMT CRANE, LOADER OR TIREHAND MODEL	1007 1014 1014A 1015 2015/2020 2109 3000 3816/3820 3016/3020 421/425 4300 5016/5020 6016/6020 TH7 BODY ROT'N TH1449 BODY ROT'N TH15B CLAMP TH2551B CLAMP TH2557A CLAMP	5200 5200R 5217 5800 7020 7025 7200 7415 9000 TH10 BODY ROT'N TH14 BODY ROT'N	16000 32018 32027 32030 T30 T40	9800 12916 13031 13034 14000 15000 18000 20017 8000L H1200 H1200RR T50 TH2551B BODY ROT'N TH2557B BODY ROT'N TH2557A BODY ROT'N
	BALL DIA. (REF)	.875" (22mm)	1.00" (25mm)	1.18"-1.25" (30-32mm)	1.75" (44mm)
	TILT DIM. (A₁-A₂)	.060" (1.524mm)	.070" (1.778mm)	.075" (1.905mm)	.090" (2.286mm)

The information within this manual has been compiled and checked but errors do occur. To provide our customers with a method of communicating those errors we have provided the Manual Change Request form below. In addition to error reporting, you are encouraged to suggest changes or additions to the manual which would be of benefit to you. We cannot guarantee that these additions will be made but we do promise to consider them. When completing the form, please write or print clearly. Submit a copy of the completed form to the address listed below

MANUAL CHANGE REQUEST

DATE	PRODUCT MANUAL	MANUAL PART NO.
SUBMITTED BY		
COMPANY		
ADDRESS		
CITY, STATE, ZIP		
TELEPHONE		

☐ ERROR FOUND

LOCATION OF ERROR (page no.):

DESCRIPTION OF ERROR:

☐ ERROR FOUND

DESCRIPTION OF ADDITION:

REASON FOR ADDITION:

MAIL TO:
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GARNER, IA 50438-0189
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