



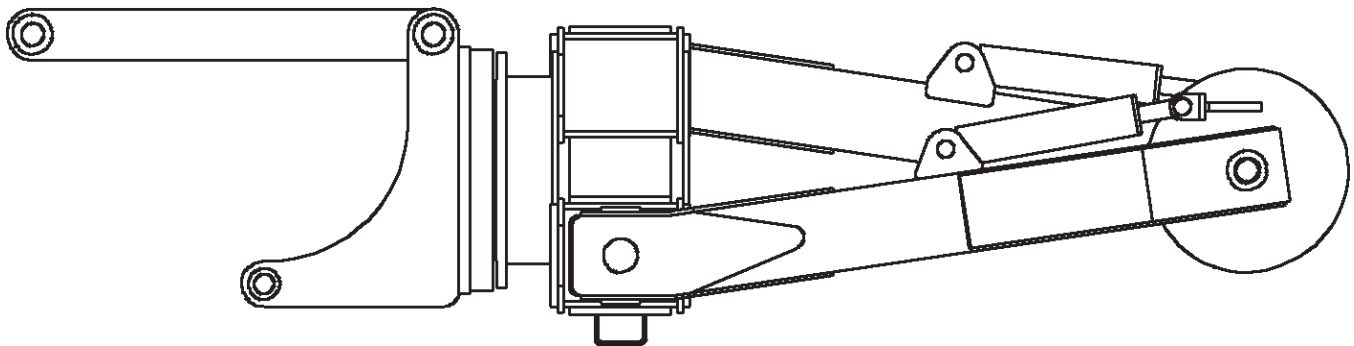
# ***Tirehand 14***

## **PARTS AND SPECIFICATIONS**

**Section 1 SPECIFICATIONS**

**Section 2 PARTS**

**Section 3 REFERENCE**



### **IOWA MOLD TOOLING CO., INC.**

BOX 189, GARNER, IA 50438-0189

TEL: 641-923-3711

TECHNICAL SUPPORT FAX: 641-923-2424

MANUAL PART NUMBER 99900763

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

**REVISIONS LIST**

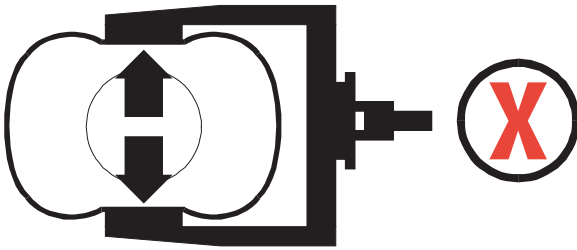
| DATE     | LOCATION                      | DESCRIPTION OF CHANGE  |
|----------|-------------------------------|--|
| 20000901 | 2-05                          | ECN9000-40715764-REF PART OF 1 ITEMS 9,12-14                               |
| 20020206 | 2-5                           | ADDED MOBILTAC NOTE  |
|          | 3-1,10                        | WARRANTY   |
| 20050923 | 2-15                          | ECN 9924 -ADDED HOLDING VALVE TO 91714929 HYD KIT                          |
| 20070227 | COVER, 2-3                    | UPDATED OWNERSHIP STATEMENT, NEW SERIALNUMBER TAG                          |
| 20080212 | 1-5                           | ECN 10661 - NEW CAPACITY CHART   |
| 20081104 | 2-5                           | ECN 10767 -TURNABLE BEARING REPLACEMENT (MATL CHANGE)                      |
| 20081231 | 1-3                           | UPDATED TIREHAND SPECS   |
| 20091210 | 2-5                           | ECN 11151-CHANGES TO 40715764.   |
| 20110209 | 2-6                           | ECN 11380 -ADDED FLOODLIGHT KITS TO 40712056 ASSEMBLY                      |
| 20110505 | 2-8                           | ECN 11327-1 -ADDED 41723211 CLAMP ASSEMBLY DRAWING                         |
| 20120531 | 2-11,12'                      | ECN 11615 - UPDATED 3B004940, 3B111870 CYLINDERS                           |
| 20140403 | 2-5, 2-7, 2-10, 2-16 &<br>3-8 | ECN 12150 - ADDED 40725636, 40725242 & 40725459. UPDATED SPARE PARTS LIST. |

# TIREHAND OPERATING RESTRICTIONS

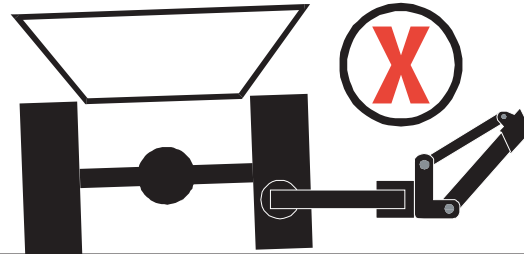
## DANGER

FAILURE TO OBEY THE FOLLOWING  
WILL RESULT IN  
**DEATH, SERIOUS INJURY,  
INSTABILITY OR EQUIPMENT DAMAGE**

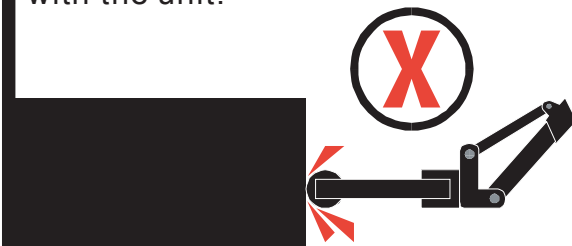
NEVER clamp an uninflated tire and then inflate. Damage or injury WILL result.



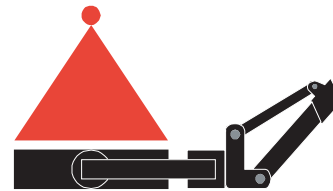
NEVER use the unit for any jacking, pulling or dragging operation involving an object or another vehicle.



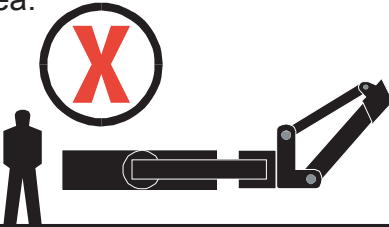
NEVER impact-load or hammer-push with the unit.



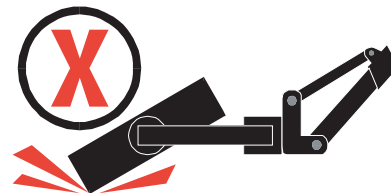
NEVER attempt to handle tires filled with ballast. Stability or structural failure may result if the load limit is exceeded.



NEVER operate the unit while persons not required for operation are in the work area.



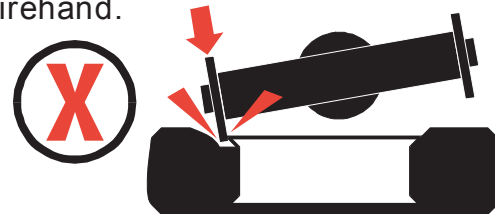
NEVER drag the tire-the unit is designed to lift and position.



NEVER sling a load using one arm of the Tirehand.



NEVER use crane functions to break beads using only one arm of the Tirehand.



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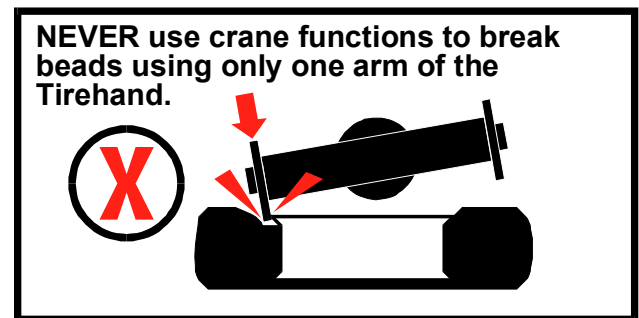
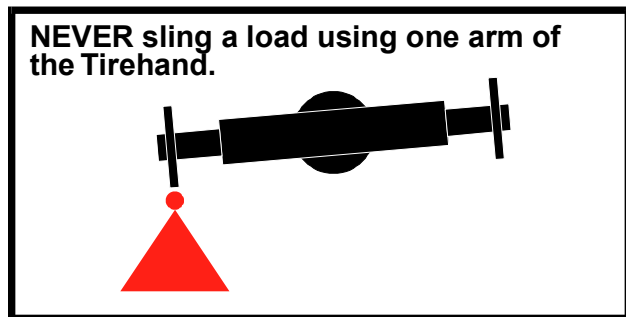
# TIREHAND OPERATING RESTRICTIONS

The Tirehand 14 mounted on the 20017 crane is intended to be a tire lifting and positioning device. There are possible misapplications of this machine that can cause serious damage to the Tirehand rotation gears. It is possible to break the teeth on the Tirehand rotation bearing by applying forces with the crane while attempting to break tire beads **with one arm** of the tire hand, or by slinging a load **under one arm** of the tire hand.

A load-carrying hook is attached to the outer boom of the 20017 for carrying loads other than tires. There is also an open clevis at the end of the extension boom on the crane that can be used for attaching slings.

**Use of a single Tirehand arm for lifting or carrying a load will void the tire hand warranty.**

The rotation system on the Tirehand is designed to allow the user to manipulate large tires. It is a precision function that was not designed to apply high loads. However, the load holding valves that are built into this system to help control the tire during handling will also prevent the body of the Tirehand from rotating freely when loads are applied to a single Tirehand arm. The crane is capable of producing very large forces in the downward and outward directions. When one arm is used for bead breaking, these forces can translate into torques that attempt to rotate the body of the Tirehand. The load holding valves will not allow this to occur. In this situation, the forces that are created in the Tirehand rotation turntable are well in excess of what the gear teeth can tolerate. **Using one arm of the Tirehand for bead breaking will void the warranty of the Tirehand.**



A separate bead breaker or a push bar that carries the load to both arms of the Tirehand must be used to separate the tire from the rim. It is acceptable to use the Tirehand for holding the sidewall and flange away from the bead while O-rings and locking rings are being installed.

## INTRODUCTION - READ CAREFULLY!

This manual is provided to assist you in the identification and ordering of parts, for your IMT equipment. It contains information such as specifications, parts lists, capacities, and parts identification.

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

Warranty of this equipment will be void on any part of the unit subjected 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 on 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 equipment.

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 work environment.

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**NOTES**

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**NOTES**





## TIREHAND 14 SPECIFICATIONS

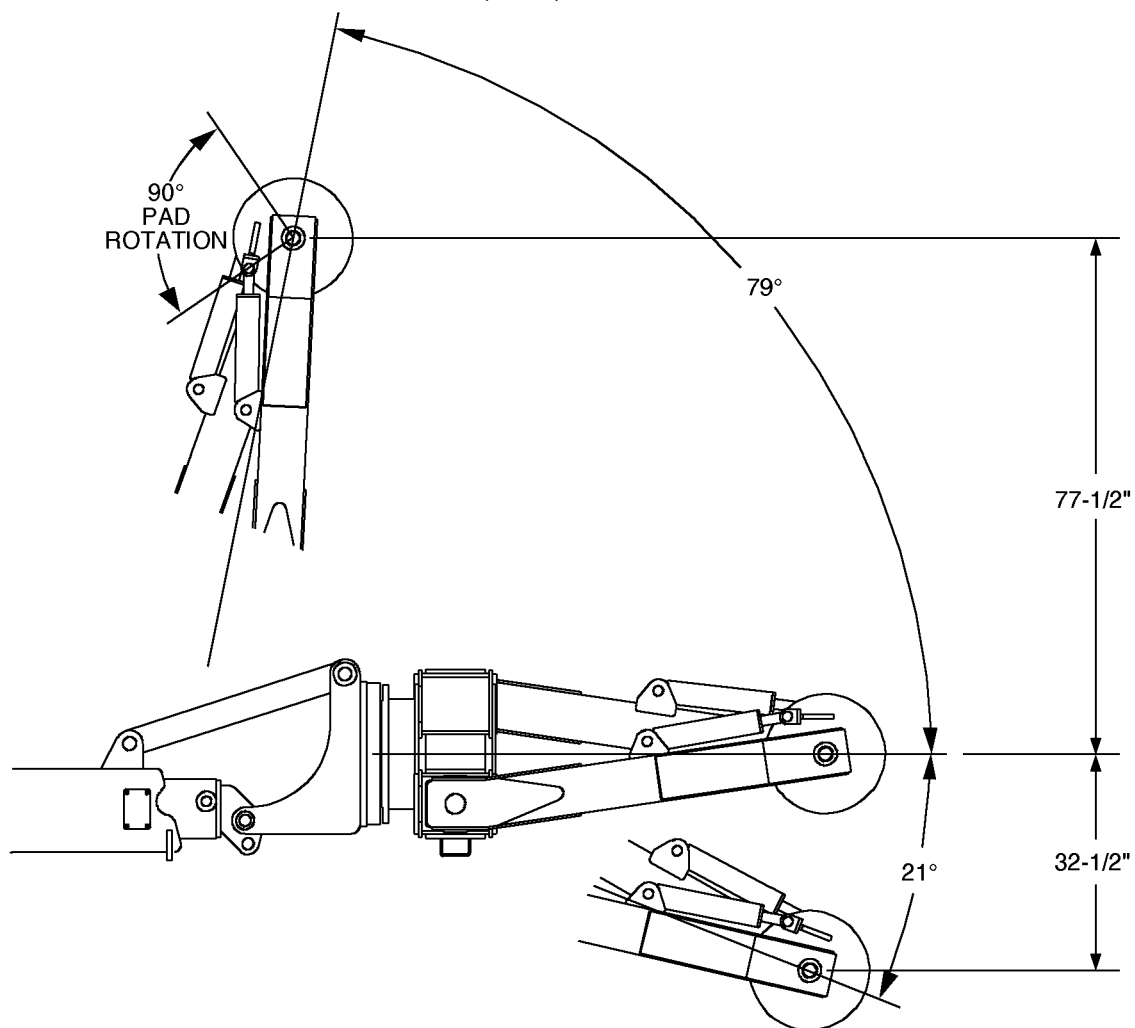
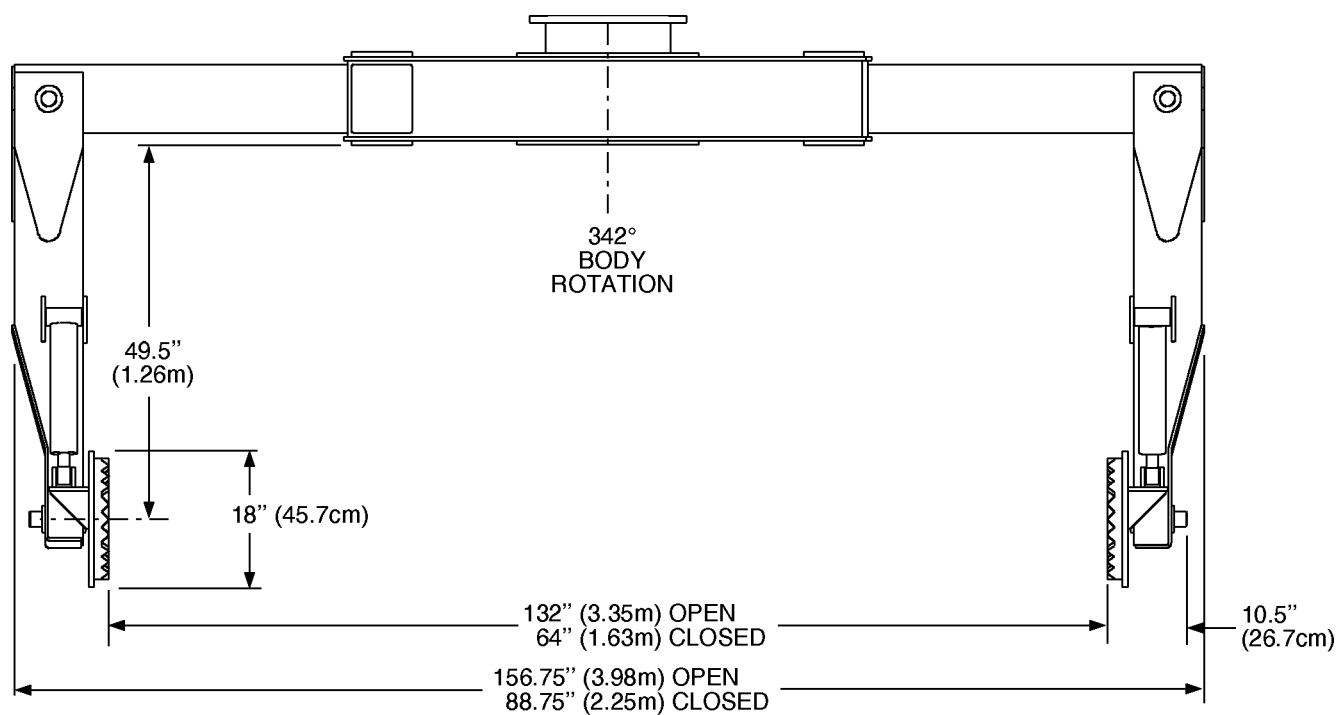
### GENERAL SPECIFICATIONS

|  |  |
|--|--|
| IMT CRANE WHICH TIREHAND IS DESIGNED             | IMT Model 20017 (truck chassis mounted)      |
| TIREHAND MAXIMUM CAPACITY                        | 8000 lb (3629 kg)                            |
| BODY ROTATION                                    | 342° (5.96 Rad)                              |
| CLAMPING SPAN                                    | 64" to 132" (162.6cm - 335.3cm)              |
| METHOD OF CLAMPING                               | Horizontally telescoping                     |
| CLAMPING PAD ROTATION                            | 90°  |
| TIREHAND TILT (provided by crane extension boom) | +79° to -21° (+1.38 to -.37 Rad.)            |
| CLAMPING LOAD HOLDING VALVES                     | Pilot operated check valves on clamping side |
| HYDRAULIC CONTROLS                               | Incorporated with crane controls             |
| ROTATION SYSTEM                                  | Spur gear drive                              |
| TIREHAND WEIGHT                                  | 3400 lbs (1542 kg)                           |
| ALLOWABLE BEAD BREAKING METHOD                   | Push Bar, ONLY                               |

### CYLINDERS

|          | <b>BORE</b>                      | <b>STROKE</b> |
|----------|----------------------------------|---------------|
| CLAMPING | 4" (10.16cm)                     | 34" (86.4cm)  |
| TILT     | Provided by crane extension boom |               |

**IMT reserves the right to change specifications and design without notice. Where applicable, specifications are in accordance with SAE standards.**

**GEOMETRIC CONFIGURATION-TH 14 ON 20017 CRANE**

**CAPACITY CHART**



**Tirehand 14  
CAPACITY CHART**

**MAXIMUM CAPACITY**

**8,000 LB  
(3,630 KG)**

**CLAMPING SPAN**

**MIN: 64" (162.6 cm)  
MAX: 132" (335.3 cm)**

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**NOTES**

## SECTION 2. TIREHAND 14 PARTS

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| BODY ASM (40712056) .....                                    | 2!%\$  |
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**NOTES**

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## PARTS INFORMATION

### GENERAL

This section contains the exploded parts drawings with the accompanying parts list for the assemblies used on the Tirehand-14. These drawings are intended to be used in conjunction with those in the 20017 Crane manual and the instructions found in the REPAIR section in Volume 1.

#### WARNING

DO NOT ATTEMPT TO REPAIR ANY COMPONENT WITHOUT READING THE INFORMATION CONTAINED IN THE REPAIR SECTION IN VOLUME 1. PAY PARTICULAR ATTENTION TO THE WARNING'S, CAUTION'S AND NOTE'S CONTAINED IN THAT SECTION. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN DAMAGE TO THE EQUIPMENT, INJURY OR DEATH.

### TIREHAND IDENTIFICATION

Every Tirehand has an identification placard, as shown below, attached to the body assembly. When ordering parts, communicating warranty information or referring to the unit in correspondence, always include the assigned serial and model numbers. All inquiries should be addressed to:

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

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

**SERIAL NUMBER PLACARD**

### CYLINDER IDENTIFICATION

To ensure proper replacement parts are received, it is necessary to specify a complete number/letter sequence for any part request. Part numbers may be cross checked by comparing the stamped identification of the cylinder case, as shown below, against the information contained in this manual. You must use the part number stamped on the cylinder case when ordering parts.

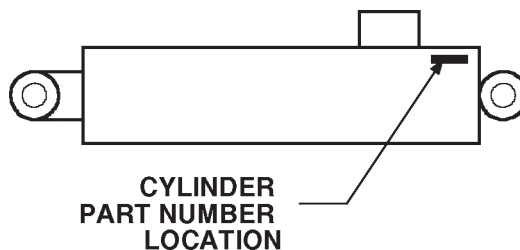
### WELDMENT IDENTIFICATION

Each of the major weldments of the Tirehand 14 bears 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 on the next page.

### ORDERING REPAIR PARTS

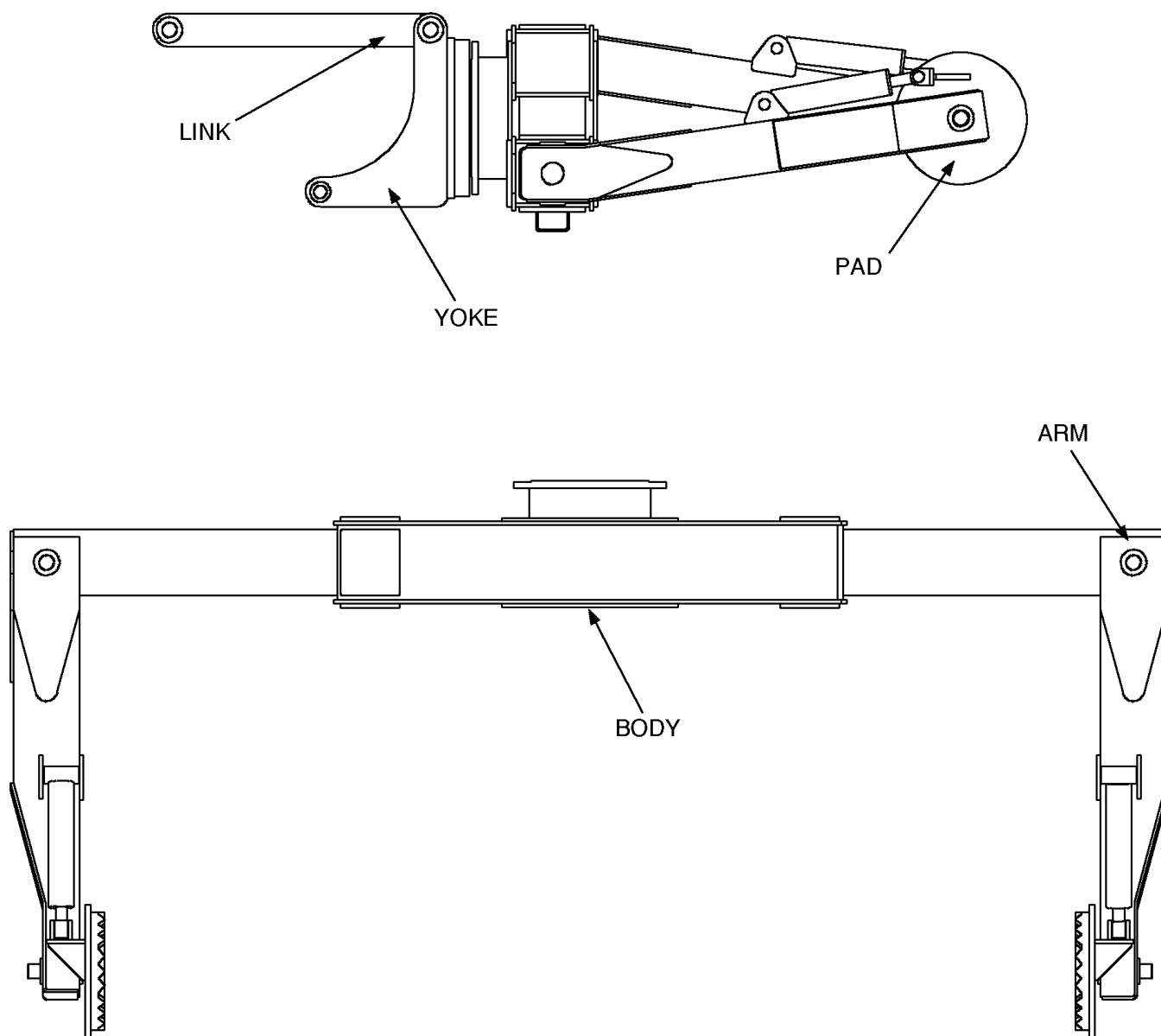
When ordering replacement parts:

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 IDENTIFICATION**

## WELDMENT PART NUMBER LOCATIONS





**YOKE ASM (40725636)**(EFFECTIVE FROM 10/17/13)

| ITEM | PART NO. | DESCRIPTION               | QTY |
|------|----------|---------------------------|-----|
| 1.   | 51395083 | HOSE-AA .13 X 19.50 (2-2) | 1   |
| 2.   | 52725238 | LINK-WLDMT TH12           | 1   |
| 3.   | 52725241 | WLDMT-YOKE TH14           | 1   |
| 4.   | 60010235 | COVER-PINION GEAR         | 1   |
| 5.   | 60010844 | GREASE PLATE-DRIVE GEAR   | 1   |
| 6.   | 60020033 | THRUST WASH-BRZ           | 1   |
| 7.   | 60020123 | ITHRUST WASH-BRZ          | 1   |
| 8.   | 60106032 | STUD                      | 2   |
| 9.   | 60122139 | END COVER                 | 1   |
| 10.  | 60122140 | TOP COVER                 | 1   |
| 11.  | 60141212 | PIN                       | 3   |
| 12.  | 70034402 | CLAMP                     | 6   |
| 13.  | 70143829 | COVER PLATE               | 4   |
| 14.  | 71056264 | GEAR                      | 1   |
| 15.  | 71056265 | GEAR-PINION               | 1   |
| 16.  | 71056627 | GEAR-TURNABLE BEARING     | 1   |
| 17.  | 71415016 | KEEPER PIN                | 1   |
| 18.  | 72066095 | RETAINING RING 2"         | 3   |
| 20.  | 72060029 | CAP SCR .31-18X2.00       | 2   |
| 21.  | 72060033 | CAP SCR .31-18X3.00       | 2   |
| 22.  | 72060091 | CAP SCR .50-13X1.00       | 6   |
| 24.  | 72060207 | CAP SCR .75-10X3.00       | 16  |
| 25.  | 72060833 | SCR-THRD .31-18X.75       | 2   |
| 26.  | 72062080 | NUT 1/2-13 LOCK           | 2   |
| 27.  | 72063002 | WASHER .31 FLAT           | 6   |
| 28.  | 72063003 | WASHER .38 FLAT           | 2   |

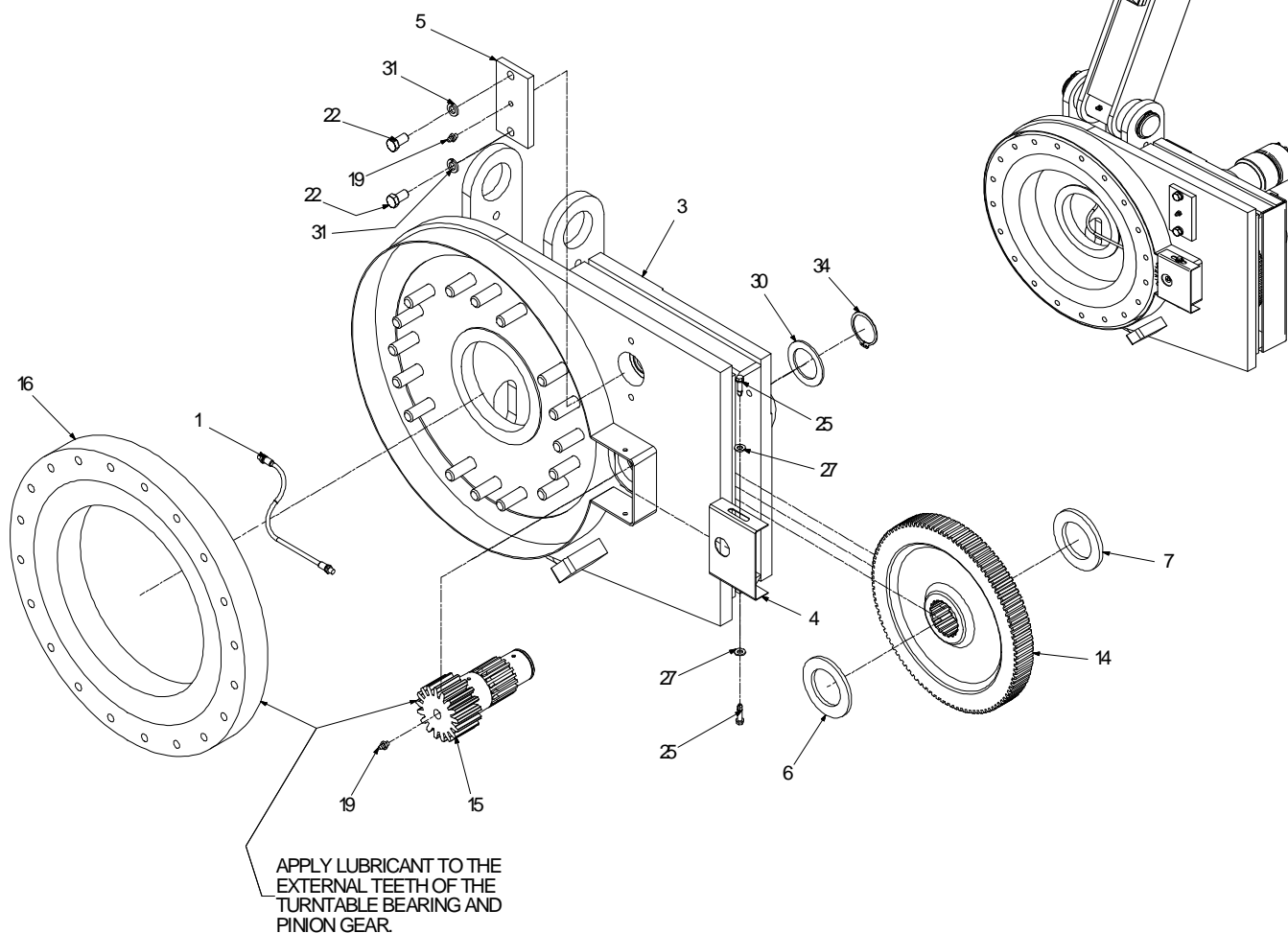
|     |          |                   |    |
|-----|----------|-------------------|----|
| 29. | 72063005 | WASHER .50 FLAT   | 4  |
| 30. | 72063039 | BUSHING 2.00X10   | 1  |
| 31. | 72063053 | WASHER .50 LOCK   | 6  |
| 32. | 72063116 | WASHER .75 FLAT   | 16 |
| 33. | 72063119 | WASHER .62 FLAT   | 3  |
| 34. | 72066095 | RETAINING RING    | 1  |
| 35. | 73540004 | MOTOR ASSEMBLY    | 1  |
| 36. | 89044330 | LOOM              | 1  |
| 37. | 91725637 | KIT-HRDW YOKE ASM | 1  |
| 38. | 72066103 | RETAINING RING    | 6  |

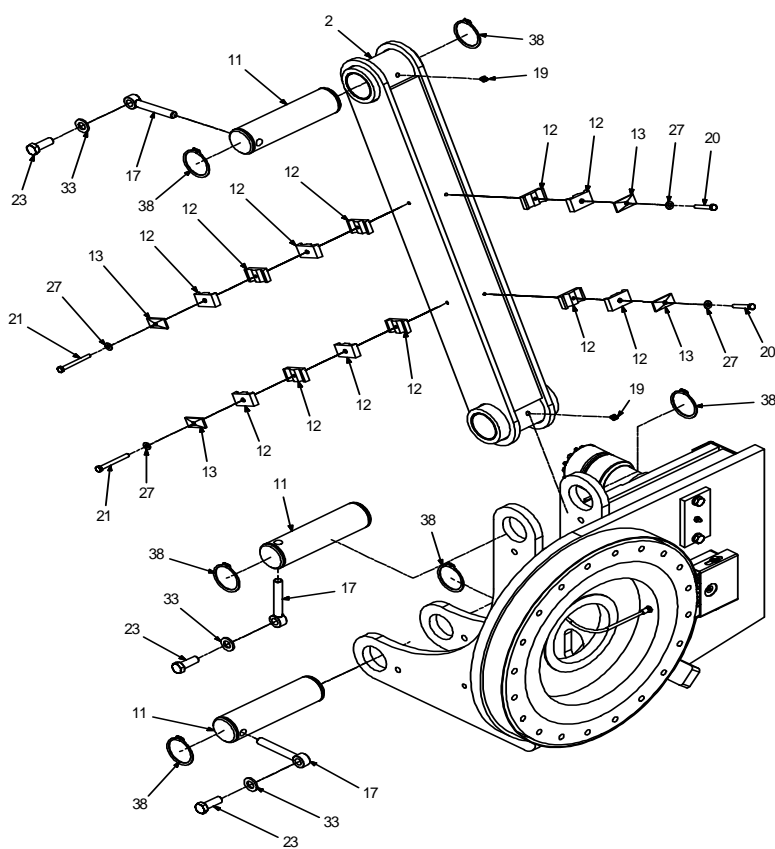
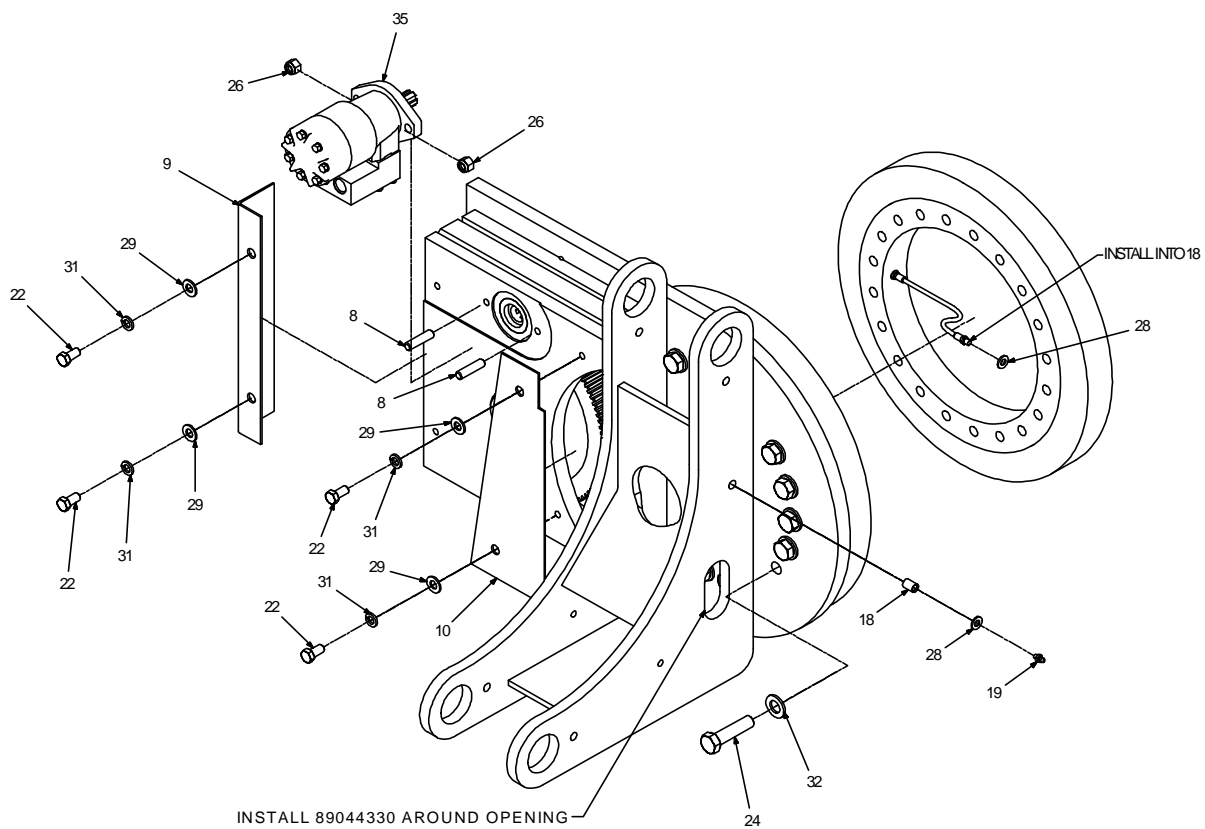
**NOTE**

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

**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.





**YOKE ASM (40715764)**(EFFECTIVE TO 10/16/13)

| ITEM | PART NO. | DESCRIPTION                | QTY  |
|------|----------|----------------------------|------|
| 1.   | 52715762 | YOKE (INCL:9,12-14)        | 1    |
| 2.   | 60103305 | CLAMP-HOSE                 | 2    |
| 3.   | 60010235 | PINION COVER               | 1    |
| 4.   | 60122140 | COVER-GEAR BOX             | 1    |
| 5.   | 60122139 | COVER-GEAR BOX             | 1    |
| 6.   | 71056627 | GEAR BEARING               | 1    |
| 7.   | 71056264 | INTERMEDIATE GEAR          | 1    |
| 8.   | 71056265 | PINION GEAR                | 1    |
| 9.   | 60106309 | DRIVE GEAR (PART OF 1)     | 1REF |
| 10.  | 60020123 | THRUST WASHER              | 1    |
| 11.  | 60020033 | THRUST WASHER              | 1    |
| 12.  | 60020181 | BUSHING (PART OF 1)        | 1REF |
| 13.  | 60020182 | BUSHING (PART OF 1)        | 1REF |
| 14.  | 60020180 | BUSHING (PART OF 1)        | 2REF |
| 15.  | 51395083 | HOSE-AA .13X19.5 #2#2      | 1    |
| 16.  | 72053508 | ZERK 1/8NPT                | 6    |
| 17.  | 72053301 | COUPLING 1/8NPT            | 1    |
| 18.  | 72066095 | RETAINING RING 2"          | 1    |
| 20.  | 72060091 | CAP SCR 1/2-13X1 HHGR5     | 4    |
| 21.  | 72060833 | SCR 5/16-18X3/4 HH SLFTPG  | 2    |
| 22.  | 60106032 | STUD 1/2-13X1              | 2    |
| 24.  | 72063005 | WASHER 1/2 WRT             | 4    |
| 25.  | 72063053 | WASHER 1/2 LOCK            | 4    |
| 26.  | 72063002 | WASHER 5/16 WRT            | 2    |
| 27.  | 72062080 | NUT 1/2-13 LOCK            | 2    |
| 28.  | 73540004 | HYD MOTOR (FROM 5-15-98)   | 1    |
|      | 73051004 | HYD MOTOR (TO 5-15-98)     | 1    |
|      | 7Q072112 | O-RING (TO 5-15-98)        | 2    |
|      | 73054538 | C'BALANCE VLV (TO 5-15-98) | 2    |
|      | 72060738 | CAP SCR (TO 5-15-98)       | 4    |

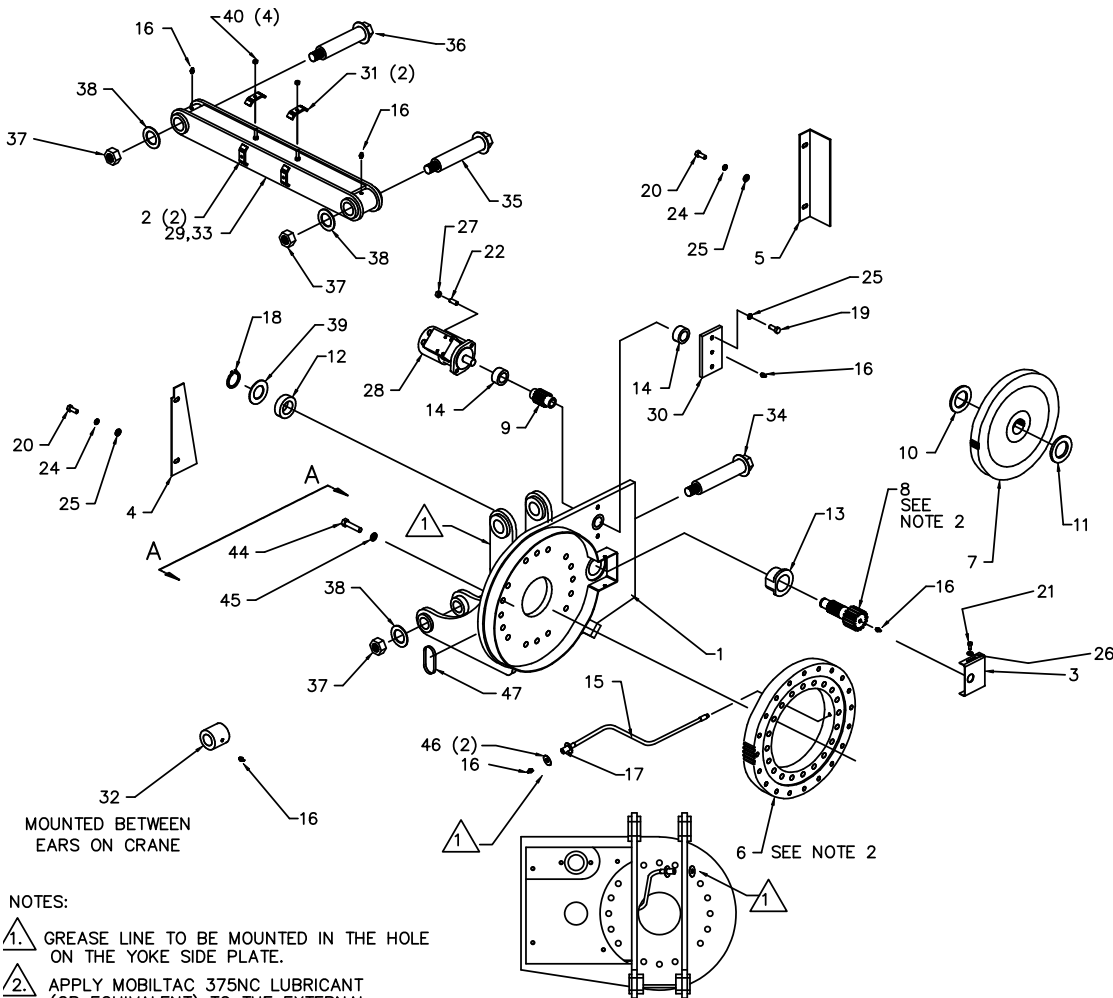
|     |          |  |      |
|-----|----------|--|------|
|     | 5V151830 | BLOCK (TO 5-15-98)                                   | 1    |
| 29. | 52704466 | LINK (INCL:33)                                       | 1    |
| 30. | 60010844 | GREASE PLATE   | 1    |
| 31. | 60107648 | HOSE CLAMP   | 2    |
| 32. | 60105322 | TUBE-REINFORCEMENT                                   | 1    |
| 33. | 7BF82020 | BUSHING (PART OF 29)                                 | 4REF |
| 34. | 52704930 | PIN  | 1    |
| 35. | 52704931 | PIN  | 1    |
| 36. | 52704934 | PIN  | 1    |
| 37. | 72062142 | NUT 1 1/4-7 LOCK                                     | 3    |
| 38. | 72063012 | WASHER 1-1/4 WRT                                     | 3    |
| 39. | 72063039 | MACH BUSHING 2X10GA NR                               | 1    |
| 40. | 72062103 | NUT 3/8-16 LOCK                                      | 4    |
| 41. | 72060147 | CAP SCR 5/8-11X1 HH GR5<br>(USED AS PLUGS IN ITEM 2) | 7    |
| 42. | 72063055 | WASHER 5/8 LOCK<br>(USED AS PLUGS IN ITEM 2)         | 7    |
| 44. | 72060207 | CAP SCR 3/4-10X3 HHGR8                               | 16   |
| 45. | 72063116 | WASHER 3/4 FLAT HARD                                 | 16   |
| 46. | 72063003 | WASHER 3/8 WRT                                       | 2    |
| 47. | 89044330 | LOOM 5/8 ID  | 12"  |

**NOTE**

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

**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.

**NOTES:**

1. GREASE LINE TO BE MOUNTED IN THE HOLE ON THE YOKE SIDE PLATE.
2. APPLY MOBILTAC 375NC LUBRICANT (OR EQUIVALENT) TO THE EXTERNAL TEETH OF THE TURNTABLE BEARING AND PINION GEAR.

VIEW A - A

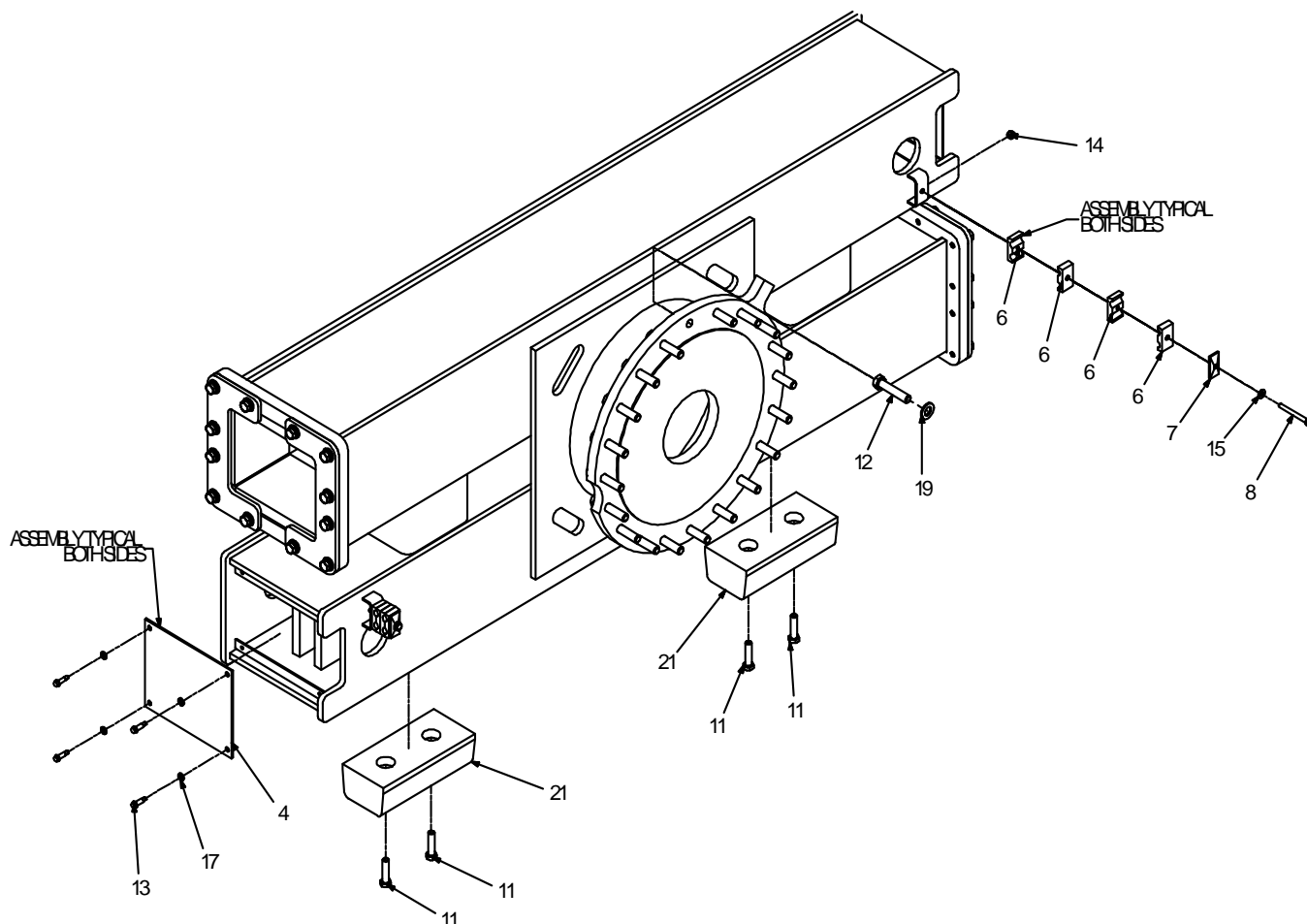
NOTE:TURNTABLE BEARING  
BACKLASH - .006/-.010

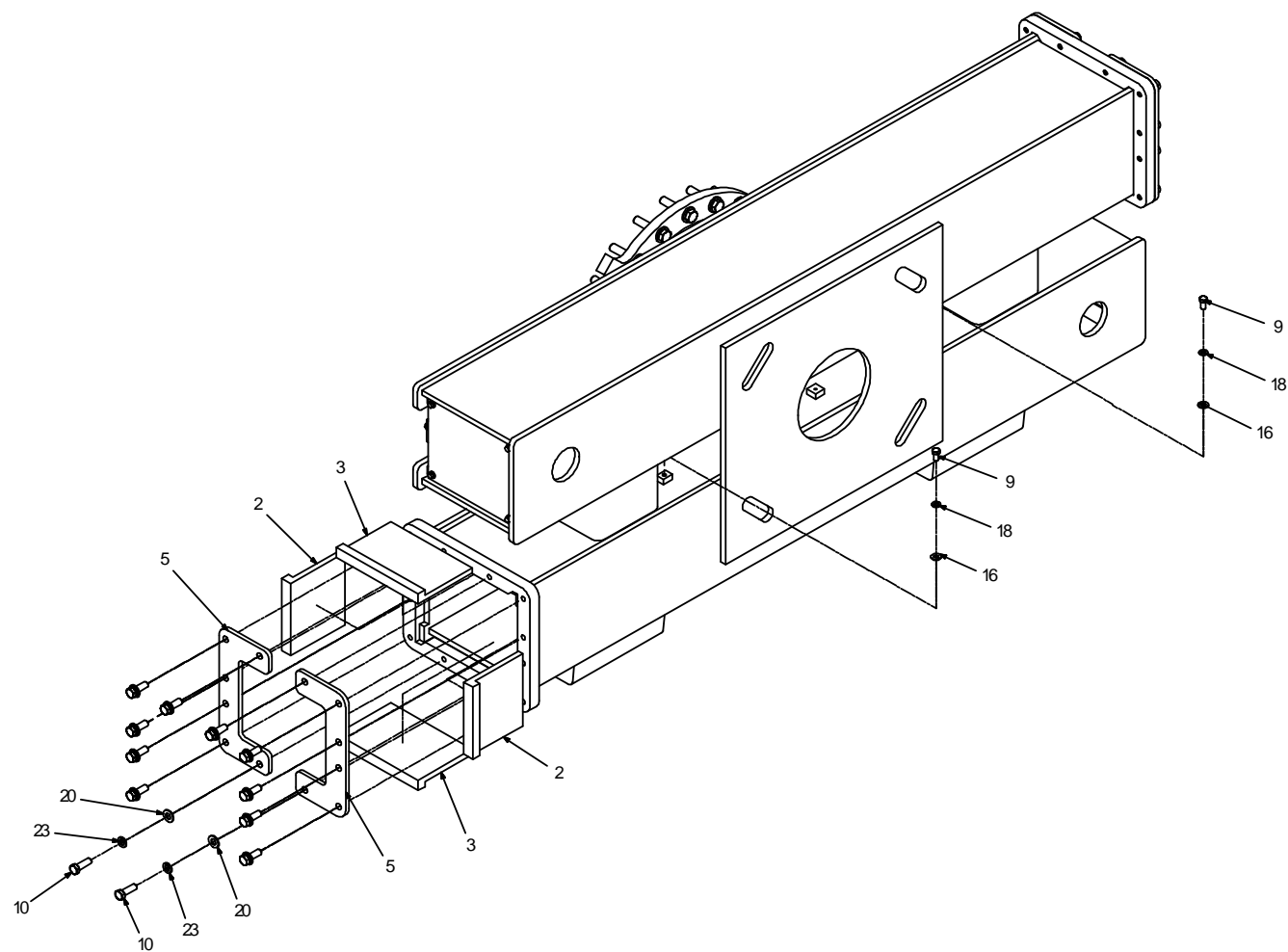
**BODY ASM (40725242)**(EFFECTIVE FROM 10/17/13)

| ITEM | PART NO. | DESCRIPTION                   | QTY |
|------|----------|-------------------------------|-----|
| 1.   | 52725243 | BODY WELDMENT                 | 1   |
| 2.   | 60030492 | WEAR PAD                      | 4   |
| 3.   | 60030493 | WEAR PAD                      | 4   |
| 4.   | 60110688 | END CAP                       | 2   |
| 5.   | 60141241 | END CAP                       | 4   |
| 6.   | 70034402 | CLAMP                         | 4   |
| 7.   | 70143829 | COVER PLATE                   | 2   |
| 8.   | 72060033 | CAP SCREW .31-18x3.00HHGR5Z   | 2   |
| 9.   | 72060044 | CAP SCREW .38-16x.75HHGR5Z    | 2   |
| 10.  | 72060093 | CAP SCREW .50-13x1.50HHGR5Z   | 24  |
| 11.  | 72060095 | CAP SCREW .50-13x2.00HHGR5Z   | 4   |
| 12.  | 72060177 | CAP SCR .62-11X 3.00 HH GR8 Z | 20  |
| 13.  | 72060833 | SCREW .31-18X.75 THD CUT      | 8   |
| 14.  | 72062109 | NUT .31-18 HEX NYLOCK         | 2   |
| 15.  | 72063002 | WASHER .31 FLAT               | 2   |
| 16.  | 72063003 | WASHER .38 FLAT               | 2   |
| 17.  | 72063050 | WASHER .31 LOCK               | 8   |
| 18.  | 72063051 | WASHER .38 LOCK               | 2   |
| 19.  | 72063119 | WASHER .62 FLAT               | 20  |
| 20.  | 72063132 | WASHER .50 FLAT               | 24  |
| 21.  | 76393209 | BUMPER-DOCK                   | 2   |
| 22.  | 91725638 | KIT-HARDWARE                  | 1   |
| 23.  | 72063053 | WASHER .50 LOCK               | 24  |

**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.



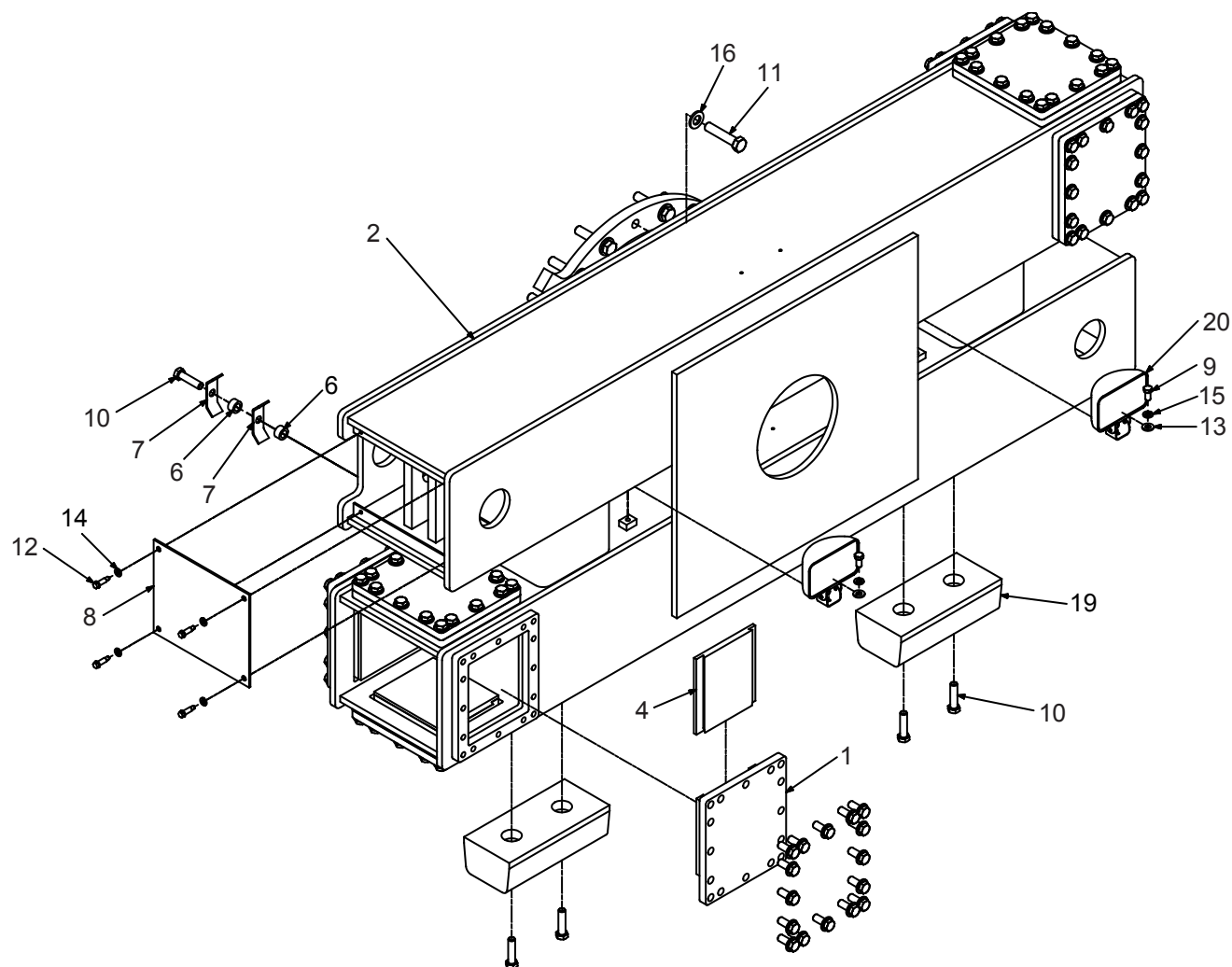


**BODY ASM (40712056)**(EFFECTIVE TO 10/16/13)

| ITEM | PART NO. | DESCRIPTION                   | QTY |
|------|----------|-------------------------------|-----|
| 1.   | 51707213 | WEAR PAD RETAINER             | 8   |
| 2.   | 52712057 | BODY                          | 1   |
| 3.   | 60030125 | WEAR PAD                      | 4   |
| 4.   | 60030187 | WEAR PAD                      | 8   |
| 5.   | 60030300 | WEAR PAD                      | 4   |
| 6.   | 60106742 | SLEEVE                        | 4   |
| 7.   | 6010674  | HOSE CLAMP .38-.50 HOSE       | 4   |
| 8.   | 60110688 | END CAP                       | 2   |
| 9.   | 72060044 | CAP SCREW .38-16 x .75HHGR5Z  | 2   |
| 10.  | 72060095 | CAP SCREW .50-13 X 2 HHGR5Z   | 6   |
| 11.  | 72060177 | CAP SCR .62-11X 3.00 HH GR8 Z | 20  |
| 12.  | 72060833 | SCREW .31-18 X .75 THD CUT    | 8   |
| 13.  | 72060303 | WASHER .38 FLAT               | 2   |
| 14.  | 72063050 | WASHER .31 LOCK               | 8   |
| 15.  | 72063051 | WASHER .38 LOCK               | 2   |
| 16.  | 72063119 | WASHER .62 FLAT               | 20  |
| 17.  | 72063132 | WASHER .50 FLAT               | 128 |
| 18.  | 72601272 | CAP SCR .50-13 X 1.25 HHGR5Z  | 128 |
| 19.  | 76393209 | BUMPER-DOCK                   | 2   |
| 20.  | 77040572 | FLOODLIGHT 24V 70 WATT        | 2   |
| 20.  | 77040578 | FLOODLIGHT 12V 55 WATT        | 2   |

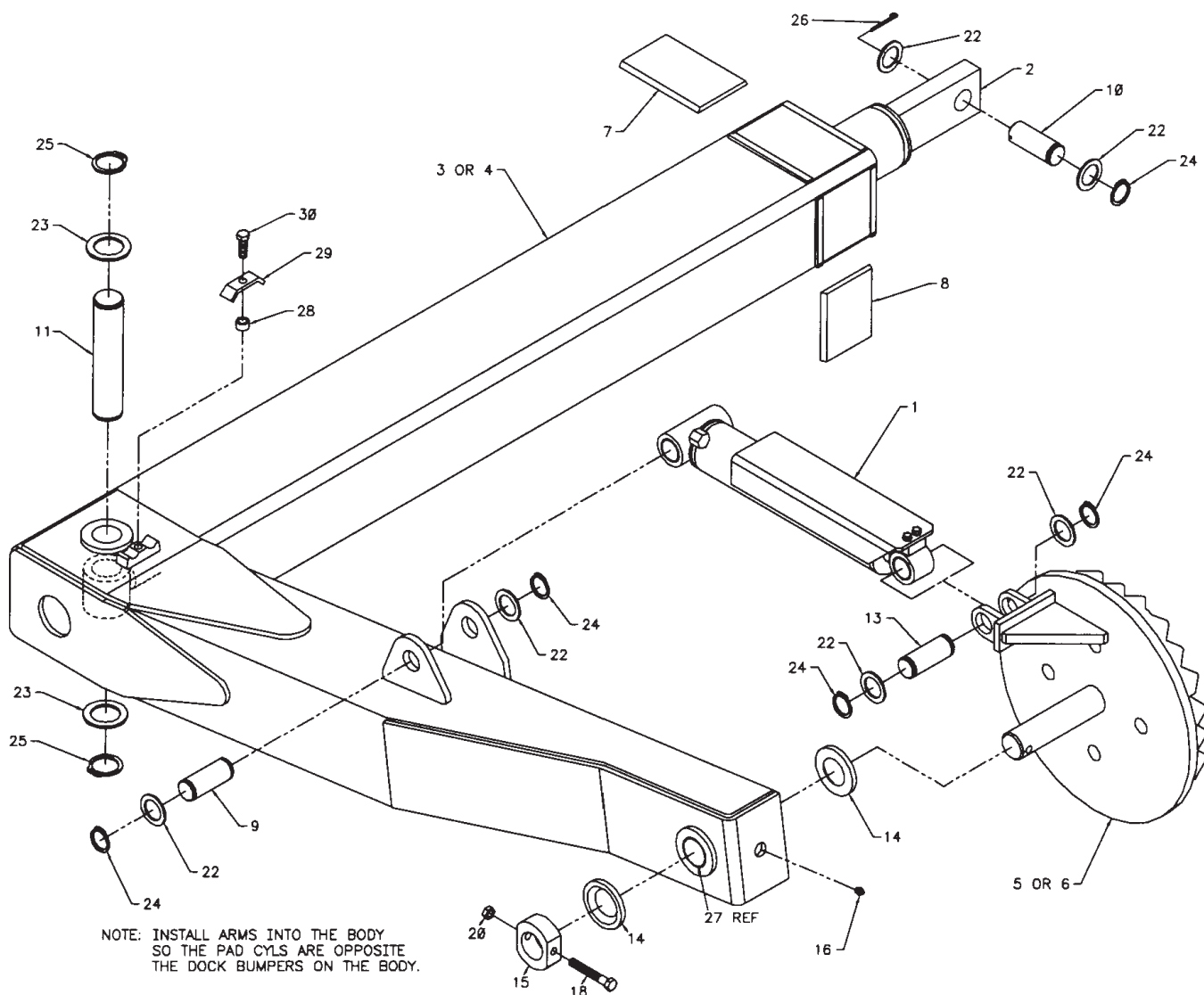
**WARNING**

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.



**ARM ASM (40712089)**

| ITEM | PART NO. | DESCRIPTION           | QTY |     |          |                             |      |
|------|----------|-----------------------|-----|-----|----------|-----------------------------|------|
| 1.   | 3B111870 | PAD ROTATION CYLINDER | 2   | 15. | 60110745 | PAD RETAINER                | 2    |
| 2.   | 3B004940 | CLAMP CYLINDER        | 2   | 16. | 72053508 | ZERK 1/8NPT                 | 2    |
| 3.   | 52712059 | ARM LH (INCL:27)      | 1   | 18. | 72060098 | CAP SCR 1/2-13X3-1/2 HHGR5  | 2    |
| 4.   | 52712060 | ARM RH (INCL:27)      | 1   | 20. | 72062107 | NUT 1/2-13 CTR LOCK         | 2    |
| 5.   | 52712061 | PAD LH                | 1   | 22. | 72063037 | MACH BUSHING 1-1/2X10GANR12 | 2    |
| 6.   | 52712062 | PAD RH                | 1   | 23. | 72063039 | MACH BUSHING 2X10GA NR      | 4    |
| 7.   | 60030125 | WEAR PAD              | 4   | 24. | 72066132 | RETAINING RING 1-1/2 EXT HD | 10   |
| 8.   | 60030300 | WEAR PAD              | 4   | 25. | 72066136 | RETAINING RING 2 EXT HD     | 4    |
| 9.   | 60101664 | PIN                   | 2   | 26. | 72066197 | COTTER PIN .19X2-1/2        | 2    |
| 10.  | 60102096 | PIN                   | 2   | 27. | 7BF82020 | BUSHING (PART OF 3&4)       | 4REF |
| 11.  | 60102097 | PIN                   | 2   | 28. | 60106742 | CLAMP SPACER                | 2    |
| 13.  | 60110742 | PIN                   | 2   | 29. | 60106744 | CLAMP BAR                   | 2    |
|      |          |                       |     | 30. | 72060093 | CAP SCR 1/2-13X1-1/2 HHGR5  | 2    |



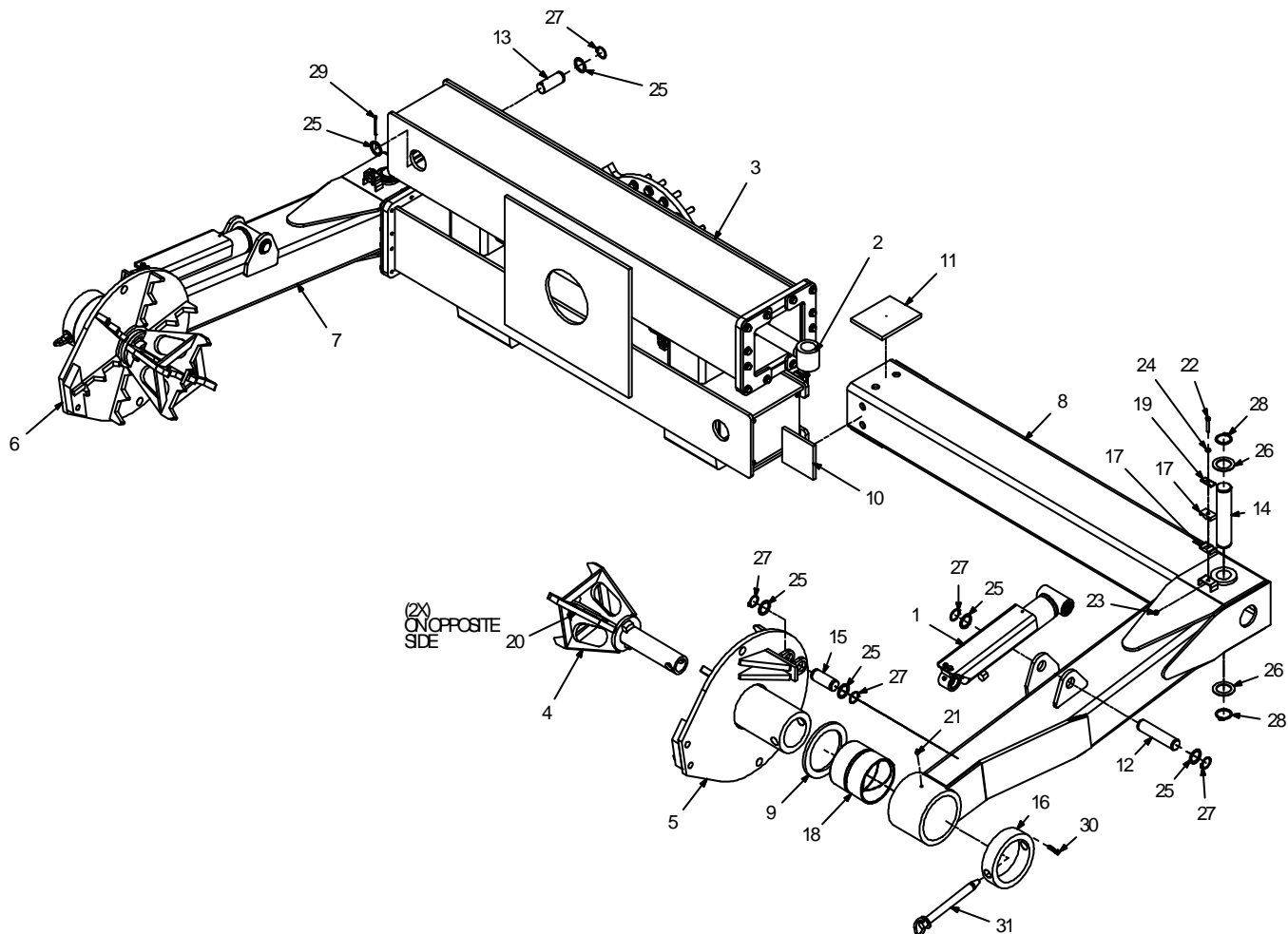


**CLAMP ASSEMBLY (40725459)**

(EFFECTIVE FROM 10/17/13)

(EFFECTIVE FROM 10/17/13)

| ITEM | PART NO. | DESCRIPTION                    | QTY |     |          |                             |    |
|------|----------|--------------------------------|-----|-----|----------|-----------------------------|----|
| 1.   | 3B111870 | CYL -3.0/ 1.5 11.25S 20.50CC   | 2   | 16. | 60121763 | LOCKING COLLAR              | 2  |
| 2.   | 3B004940 | CYL -4.0/ 2.0 34.00S 69.50CC S | 2   | 17. | 70034402 | CLAMP-TWIN TUBE .62 OD      | 2  |
| 3.   | 40725242 | BODY ASSEMBLY                  | 1   | 18. | 70055332 | BEARING-BRONZE 14K160TH     | 2  |
| 4.   | 52723208 | PAD EXT WELDMENT               | 2   | 19. | 70143829 | COVER PLATE                 | 2  |
| 5.   | 52723209 | CLAW-WLDMT 14K160TH RH         | 1   | 20. | 70394435 | DECAL-MAX TIRE WT 2000 LBS  | 4  |
| 6.   | 52723210 | CLAW-WLDMT 14K160TH RH         | 1   | 21. | 72053508 | ZERK-NPT .12                | 2  |
| 7.   | 52725457 | ARM WELDMENT TH14 RH           | 1   | 22. | 72060029 | CAP SCREW .31-18X2.00HHGR5Z | 2  |
| 8.   | 52725458 | ARM WELDMENT TH14 LH           | 1   | 23. | 72062109 | NUT .31-18 HEX NYLOCK       | 2  |
| 9.   | 60030371 | WASHER-THRUST 8.00X6.09X0.44   | 2   | 24. | 72063002 | WASHER .31 FLAT             | 2  |
| 10.  | 60030490 | WEAR PAD                       | 4   | 25. | 72063037 | MACHY BUSHING 1.50X10 GANR  | 12 |
| 11.  | 60030494 | WEAR PAD                       | 4   | 26. | 72063039 | MACHY BUSHING 2.00X10 GANR  | 4  |
| 12.  | 60101664 | PIN                            | 2   | 27. | 72066132 | RETAINING RING-EXT 1.50HD   | 10 |
| 13.  | 60102096 | PIN                            | 2   | 28. | 72066136 | RETAINING RING-EXT 2.00HD   | 4  |
| 14.  | 60102097 | PIN                            | 2   | 29. | 72066197 | COTTER PIN .19X2.50         | 2  |
| 15.  | 60110742 | PIN-TYPE A 1.50X 3.94 (3.31)   | 2   | 30. | 72661543 | PIN-QUICK 316-10QP          | 2  |
|      |          |                                |     | 31. | 73733418 | PIN-LOCK 1.00X8.88          | 2  |
|      |          |                                |     | 32. | 91725643 | KIT-HARDWARE                | 1  |





0000TH14: 41723211: NEW: 20110505

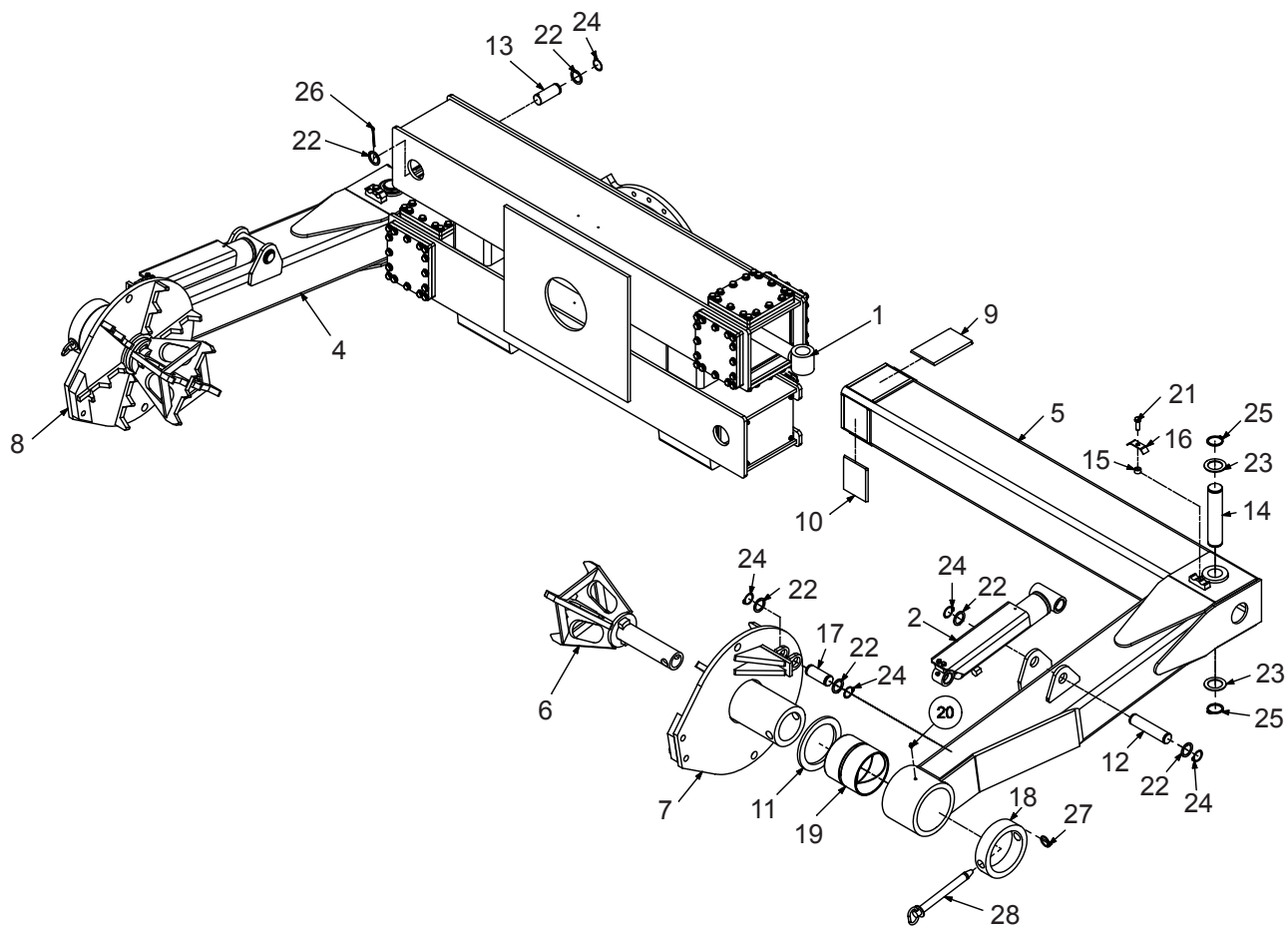
2-13

## CLAMP ASSEMBLY (41723211)

(EFFECTIVE TO 10/16/13)

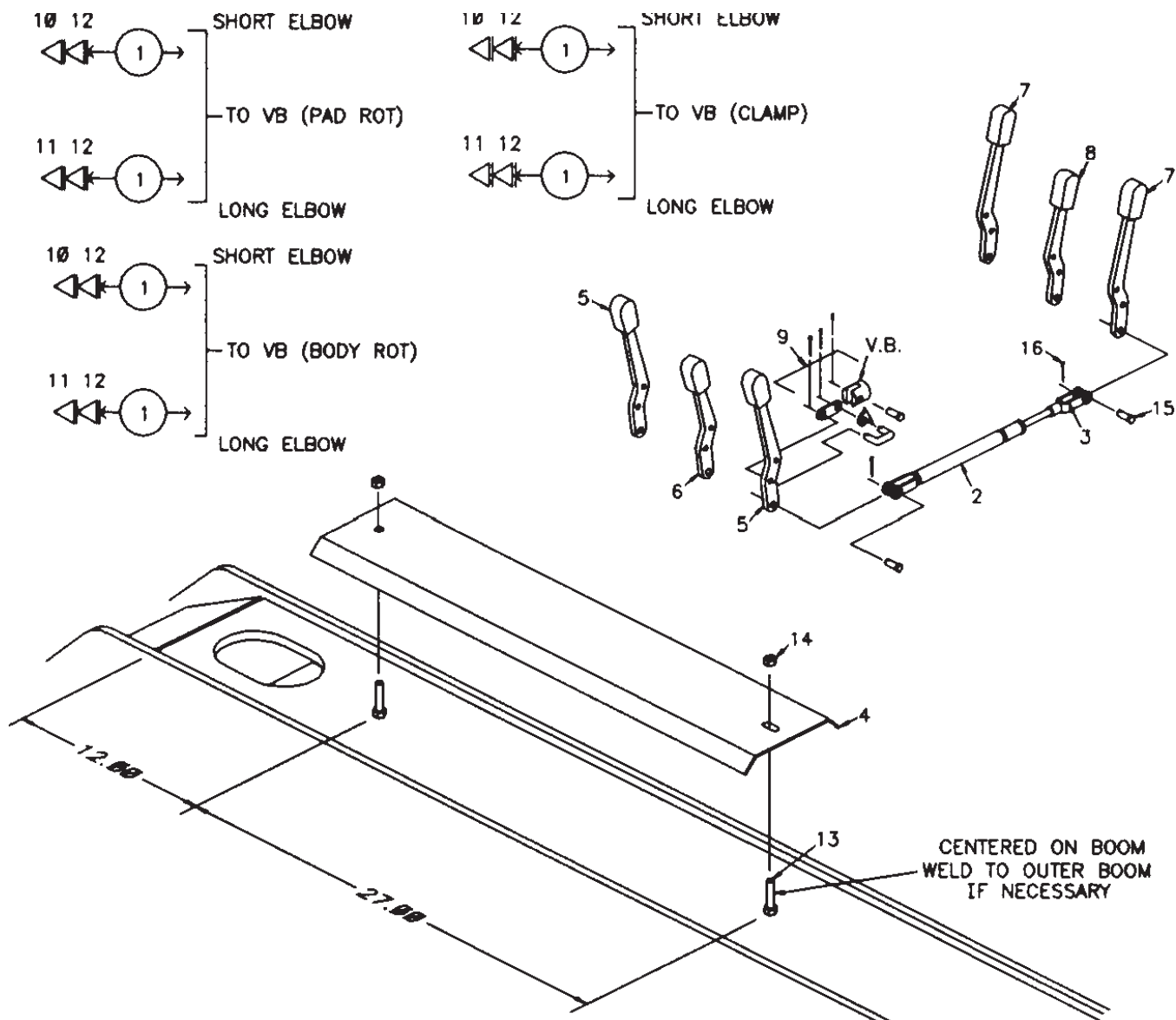
| ITEM | PART NO. | DESCRIPTION                     | QTY |
|------|----------|---------------------------------|-----|
| 1.   | 3B004940 | CYL -4.0/ 2.0 34.00S 69.50 CC S | 2   |
| 2.   | 3B111870 | CYL -3.0/ 1.5 11.25S 20.50CC    | 2   |
| 3.   | 52712057 | BODY-WELDMENT                   | 1   |
| 4.   | 52723195 | ARM -WELDMENT                   | 1   |
|      |          | TH14 RH W/CMDR IV PAD           |     |
| 5.   | 52723196 | ARM -WELDMENT TH14 LH           | 1   |
| 6.   | 52723208 | WELDMENT-PAD EXTENSION          | 2   |
| 7.   | 52723209 | CLAW-WLDMT 14K160TH LH          | 1   |
| 8.   | 52723210 | CLAW-WLDMT 14K160TH RH          | 1   |
| 9.   | 60030125 | WEAR PAD                        | 4   |
| 10.  | 60030300 | WEAR PAD                        | 4   |
| 11.  | 60030371 | WASHER -THRUST                  | 2   |
|      |          | 8.00 DIA X 6.09 ID X 0.44       |     |

|     |          |                                 |    |
|-----|----------|---------------------------------|----|
| 12. | 60101664 | PIN                             | 2  |
| 13. | 60102096 | PIN                             | 2  |
| 14. | 60102097 | PIN                             | 2  |
| 15. | 60106742 | SLEEVE-TYPE C .56X .88X .50     | 6  |
| 16. | 60106744 | CLAMP-HOSE .38- .50 HOSE        | 6  |
| 17. | 60110742 | PIN -TYPE A 1.50X 3.94 ( 3.31 ) | 2  |
| 18. | 60121763 | LOCKING COLLAR                  | 2  |
| 19. | 70055332 | BEARING-BRONZE 14K160TH         | 2  |
| 20. | 72053508 | ZERK-NPT .12                    | 2  |
| 21. | 72060093 | CAP SCR .50 -13X 1.50 HH GR5Z   | 2  |
| 22. | 72063037 | MACHY BUSHING 1.50 X10 GA NR 12 | 2  |
| 23. | 72063039 | MACHY BUSHING 2.00 X10 GA NR 4  | 4  |
| 24. | 72066132 | RETAINING RING-EXT 1.50 HD      | 10 |
| 25. | 72066136 | RETAINING RING-EXT 2.00 HD      | 4  |
| 26. | 72066197 | COTTER PIN .19X2.50             | 1  |
| 27. | 72661543 | PIN-QUICK 316-10 QP             | 2  |
| 28. | 73733418 | PIN-LOCK 1.0 0X 8.88            | 2  |



# **INSTALLATION KIT-TH14/20017 CRANE (93712058)**

| ITEM | PART NO. | DESCRIPTION                 | QTY |
|------|----------|-----------------------------|-----|
| 1.   | 51706162 | HOSE ASM 3/8X300            | 6   |
| 2.   | 52702016 | CONTROL ROD-F               | 3   |
| 3.   | 52702018 | CONTROL ROD-M               | 3   |
| 4.   | 60118086 | HOSE SHROUD                 | 1   |
| 5.   | 70141982 | CONTROL HANDLE-VB LONG      | 2   |
| 6.   | 70141983 | CONTROL HANDLE-VB SHORT     | 1   |
| 7.   | 70141984 | CONTROL HANDLE-DVB LONG     | 2   |
| 8.   | 70141985 | CONTROL HANDLE-DVB SHORT    | 1   |
| 9.   | 94731839 | LINK & PIN KIT              | 3   |
| 10.  | 72533101 | DISCONNECT COUPLER 3/8FPT   | 3   |
| 11.  | 72533102 | DISCONNECT NIPPLE 3/8FPT    | 6   |
| 12.  | 72053670 | ADAPTER 3/8MPT 3/4MJIC      | 2   |
| 13.  | 72060048 | CAP SCR 3/8-16X1-1/2 HH GR5 | 2   |
| 14.  | 72062103 | NUT 3/8-16 LOCK             | 2   |
| 15.  | 72066338 | CLEVIS PIN 5/16X1           | 6   |
| 16.  | 72066168 | COTTER PIN .09X3/4          | 6   |

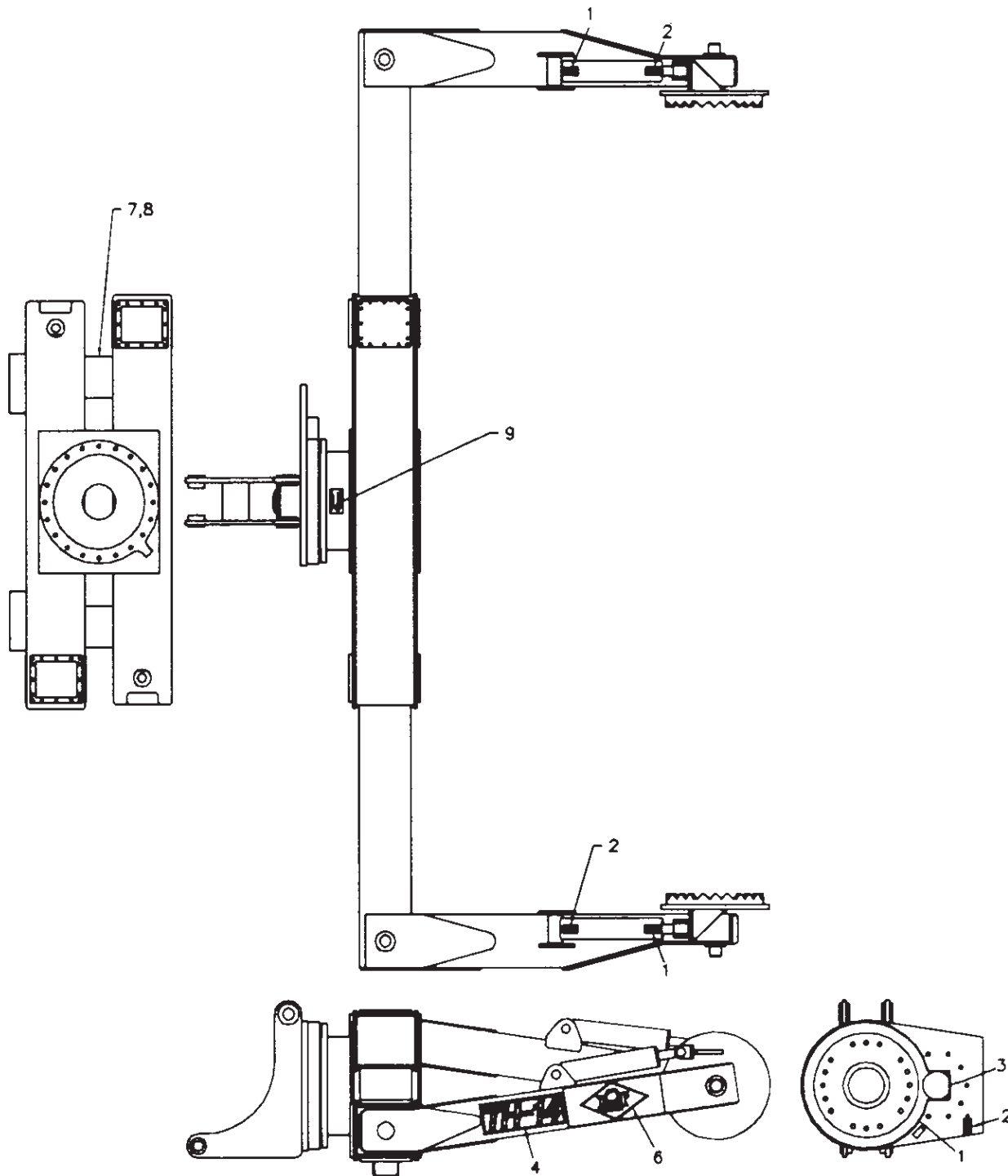


**DECAL KIT (95712090)**

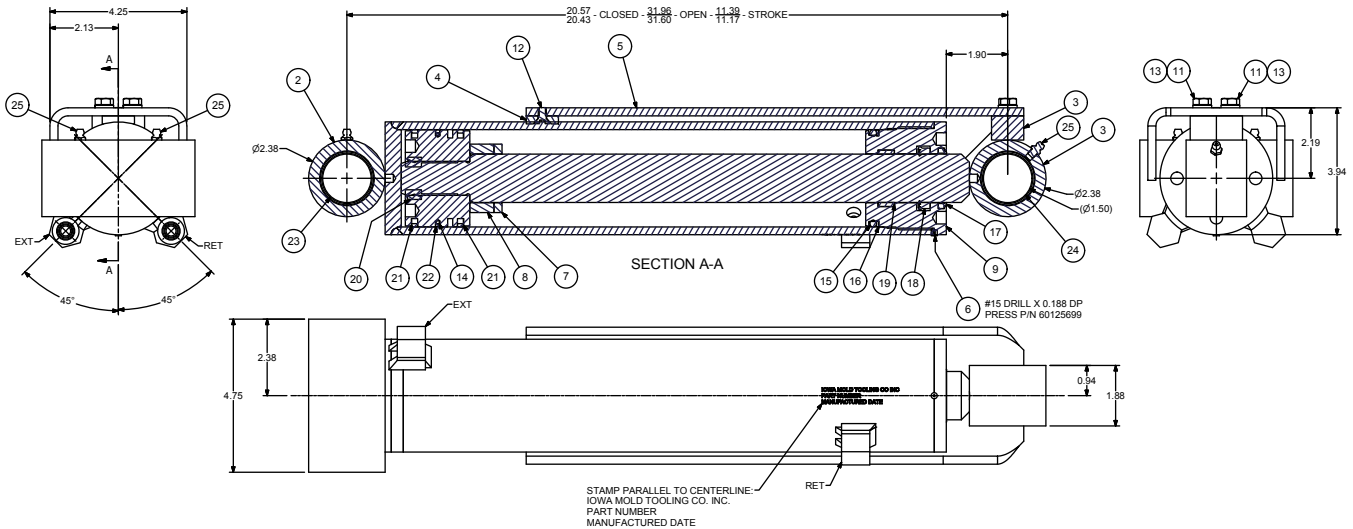
| ITEM | PART NO. | DESCRIPTION               | QTY  |
|------|----------|---------------------------|------|
| 1.   | 70391612 | DECAL - GREASE WKLY LH    | 3    |
| 2.   | 70391613 | DECAL - GREASE WKLY RH    | 3    |
| 3.   | 70392524 | DECAL - ROTATE/GREASE     | 1    |
| 4.   | 70393819 | DECAL-TH14 IDENTIFICATION | 2    |
| 5.   | 70394272 | DECAL-OP RESTRICTIONS     | 2    |
| 6.   | 70029251 | IMT DIAMOND               | 2    |
| 7.   | 70029119 | SERIAL NUMBER PLACARD     | 1REF |
| 8.   | 72066340 | POP RIVET 1/8             | 2REF |
| 9.   | 70039261 | PLACARD-PATENT            | 1    |
| 10.  | 71393825 | CAPACITY PLACARD          | 2    |

**DECAL PLACEMENT**

| ITEM | LOCATION   |
|------|--|
| 5,10 | NEAR EACH CRANE OPERATOR<br>STATION IN CLEAR VIEW OF<br>OPERATOR |



PAD ROTATION CYLINDER (3B111870) EFFECTIVE: 7/10/2018



| ITEM NO. | PART NO. | DESCRIPTION                             | KIT NO. | QTY. |
|----------|----------|---|---------|------|
| 1.       | 9C121217 | SEAL KIT-IMT 3.00B 1.50R 1.06S          |         | 1    |
| 2.       | 4B111870 | CASE ASM-3.02 BORE X 18.19 LG           |         | 1    |
| 3.       | 4G111870 | ROD ASM-1.50 DIA X 18.81 LG 1.06 S 1.50 |         | 1    |
| 4.       | 5F022850 | WEAR PAD-B1 UHMW .25X1.00X1.00          |         | 1    |
| 5.       | 5FF11187 | CHANNEL-ROD MTG TH15                    |         | 1    |
| 6.       | 60125699 | PIN - LOCK TUBE 0.19 OD X 0.065 WALL    | 1       | 1    |
| 7.       | 60138272 | STOP TUBE-1.75 ROD X 0.25 LONG          |         | 1    |
| 8.       | 6C075015 | STOP TUBE-1.50 ROD X .75 LONG           |         | 1    |
| 9.       | 6H030015 | HEAD-3.00 BORE X 2.00 ROD               |         | 1    |
| 10.      | 6i030106 | PISTON-3.00 BORE X 1.06 STGR            |         | 1    |
| 11.      | 72060023 | CAP SCR .31-18X .75 HH GR5 Z            |         | 2    |
| 12.      | 72060868 | CAP SCR .25-20X .50 FLH BRS             |         | 1    |
| 13.      | 72063050 | WASHER .31 LOCK                         |         | 2    |
| 14.      | 7Q072145 | O RING 2.56X 2.75X .09 70               | 1       | 1    |
| 15.      | 7Q072334 | O RING 2.62X 3.00X .19 70               | 1       | 1    |
| 16.      | 7Q10P334 | BACKUP RING- 2.62 ID X 3.00 OD          | 1       | 1    |
| 17.      | 7R14P015 | ROD WIPER TYPE D 1.50 ROD               | 1       | 1    |
| 18.      | 7R546015 | U-CUP 1.50 ID X 2.00 OD                 | 1       | 1    |
| 19.      | 7T2N8015 | WEAR RING = ROD 1.50 ID x 0.50 W        | 1       | 1    |
| 20.      | 7T61N106 | LOCK RING NYLON 1.06"                   | 1       | 1    |
| 21.      | 7T65I030 | PISTON RING-3.00 HYD CYL                | 1       | 2    |
| 22.      | 7T66P030 | PISTON SEAL-DYNAMIC 3.00in)             | 1       | 1    |
| 23.      | 7BF81015 | BUSHING-STL 1.50 PIN X 1.00 LG          | 2       | 4    |
| 24.      | 7BF80715 | BUSHING-STL 1.50 PIN X .75 LG           | 3       | 2    |
| 25.      | 72053507 | ZERK-STR THD .25-28                     |         | 3    |

REV. B CN839 20180720

NOTES:

1.) APPLY "NEVER-SEEZ" REGULAR GRADE ANTI-SEIZE AND LUBRICATING COMPOUND TO THREADS ON THE CYLINDER HEAD ONLY. KEEP AWAY FROM ALL SEALS.

2.) APPLY "LUBRIPLATE" NO. 630-2 MEDIUM HEAVY, MULTI PURPOSE LUBRICANT, TO ALL PISTON, HEAD GLAND, AND HOLDING VALVE SEALS, NYLON LOCK RING, CAST IRON PISTON RINGS, AND ROD STINGER THREADS.

3.) STAMP PARALLEL TO CENTERLINE ON CYLINDER CASE  
NEAR ROD END:

"IOWA MOLD TOOLING CO. INC."

"PART NUMBER"

"MANUFACTURED DATE"

4.) PAINT PER IMT SPECIFICATIONS.

5.) NO PAINT ON CHROME ROD. EXCEPTION: 1.00" OR LESS OF ROD EXTENSION FROM THE CYLINDER BODY IS OK TO BE PAINTED.

6.) NO PAINT ALLOWED ON ANY INTERNAL PORT SURFACES, BUSHINGS, BEARINGS, INTERNAL THREADS OR INTERNAL SURFACE OF PIN BOSS.

**CLAMP CYLINDER (3B004940)**

| ITEM | PART NO. | DESCRIPTION                                   | QTY  |
|------|----------|---|------|
| 1.   | 4B004940 | CASE ASM (INCL:3)                             | 1    |
| 2.   | 4G148870 | ROD ASM                                       | 1    |
| 3.   | 7PNPXT02 | PLUG 1/8NPT (PART OF 1)                       | 3REF |
| 4.   | 73054004 | CHECK VALVE                                   | 1    |
| 5.   | 72060708 | CAP SCR 1/4-20X1-1/4 SH                       | 6    |
| 6.   | 6I402144 | PISTON  | 1    |
| 7.   | 6H040020 | HEAD  | 1    |
| 8.   | 9B015930 | SEAL KIT (INCL:9-18)                          | 1    |
| 9.   | 7T66P400 | PISTON SEAL (PART OF 8)                       | 1REF |
| 10.  | 7T2N4040 | WEAR RING (PART OF 8)                         | 2REF |
| 11.  | 7T61N143 | LOCK RING (PART OF 8)                         | 1REF |
| 12.  | 7Q072127 | O-RING (PART OF 8)                            | 1REF |
| 13.  | 7Q10P342 | BACKUP RING (PART OF 8)                       | 1REF |
| 14.  | 7Q072342 | O-RING (PART OF 8)                            | 1REF |
| 15.  | 7T2N8022 | WEAR RING (PART OF 8)                         | 1REF |
| 16.  | 7R546020 | U-CUP SEAL (PART OF 8)                        | 1REF |
| 17.  | 7R14P020 | ROD WIPER (PART OF 8)                         | 1REF |
| 18.  | 60138274 | STOP TUBE 0.25" (PART OF 8)<br>(WAS 6A025020) | 1REF |
| 19.  | 6C300020 | STOP TUBE 3"                                  | 4    |
| 20.  | 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.

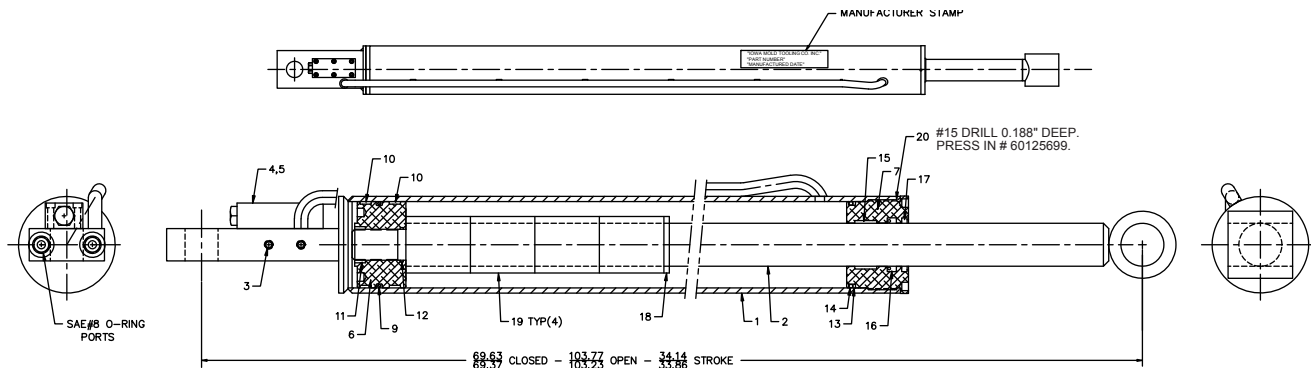
APPLY "LUBRIPLATE #630-2" MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT OR EQUIVALENT TO ALL PISTON AND HEAD GLANDS, LOCK RING AND ROD THREADS BEFORE ASSEMBLY.

USE "NEVER-SEEZ" OR EQUIVALENT BETWEEN THE HEAD AND THE CASE WHEN ASSEMBLING THE CYLINDER.

ITEM #18, STOP TUBE, REPLACES 6A025020 WAFER LOCK. USE STOP TUBE INSTEAD OF WAFER LOCK WHEN RESEALING CYLINDER.

PRESS LOCKING PIN (ITEM #20) INTO #15 HOLE DRILLED 0.188" DEEP.

TORQUE PISTON TO 710-740 FT-LB, HEAD TO 400 FT-LB, CARTRIDGE TO 40 FT-LB, LOCKNUT TO 12 FT-LB; AND CAP SCREW TO 16 FT-LB.



**PAD ROTATION CYLINDER (3B111870)**

| ITEM | PART NO. | DESCRIPTION                                    | QTY |
|------|----------|--|-----|
| 1.   | 9C121217 | SEAL KIT                                       | 1   |
| 2.   | 4B111870 | CASE ASSEMBLY                                  | 1   |
| 3.   | 4G111870 | ROD ASSEMBLY                                   | 1   |
| 4.   | 5f022850 | WEAR PAD                                       | 1   |
| 5.   | 5ff11187 | CHANNEL-ROD MTG                                | 1   |
| 6.   | 60125699 | PIN - LOCK TUBE (#1)                           | 1   |
| 7.   | 60138272 | STOP TUBE-1.75 ROD X 0.25 LG<br>(WAS 6A025015) | 1   |
| 8.   | 6C075015 | STOP TUBE-1.50 ROD X .75 LG                    | 1   |
| 9.   | 6H030015 | HEAD   | 1   |
| 10.  | 6i030106 | PISTON   | 1   |
| 11.  | 72060023 | CAP SCR .31-18X .75 HH GR5 Z                   | 2   |
| 12.  | 72060868 | CAP SCR .25-20X .50 FLH BRS                    | 1   |
| 13.  | 72063050 | WASHER .31 LOCK                                | 2   |
| 14.  | 7Q072145 | O RING 2.56X 2.75X .09 70 (#1)                 | 1   |
| 15.  | 7Q072334 | O RING 2.62X 3.00X .19 70 (#1)                 | 1   |
| 16.  | 7Q10P334 | BACKUP RING (#1)                               | 1   |
| 17.  | 7R14P015 | ROD WIPER (#1)                                 | 1   |
| 18.  | 7R546015 | U-CUP 1.50 ID X 2.00 OD (#1)                   | 1   |
| 19.  | 7T2N8015 | WEAR RING (#1)                                 | 1   |
| 20.  | 7T61N106 | LOCK RING NYLON 1.06" (#1)                     | 1   |
| 21.  | 7T65I030 | PISTON RING-3.00 HYD CYL (#1)                  | 2   |
| 22.  | 7T66P030 | PISTON SEAL-DYNAMIC 3" (#1)                    | 1   |
| 23.  | 7BF81015 | BUSHING-STL 1.5 PIN X 1 LG (#2)                | 4   |
| 24.  | 7BF80715 | BUSHING-STL 1.5 PIN X .75 LG (#3)              | 2   |
| 25.  | 72053507 | ZERK-STR THD .25-28 (#2 & #3)                  | 3   |

**NOTE**

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

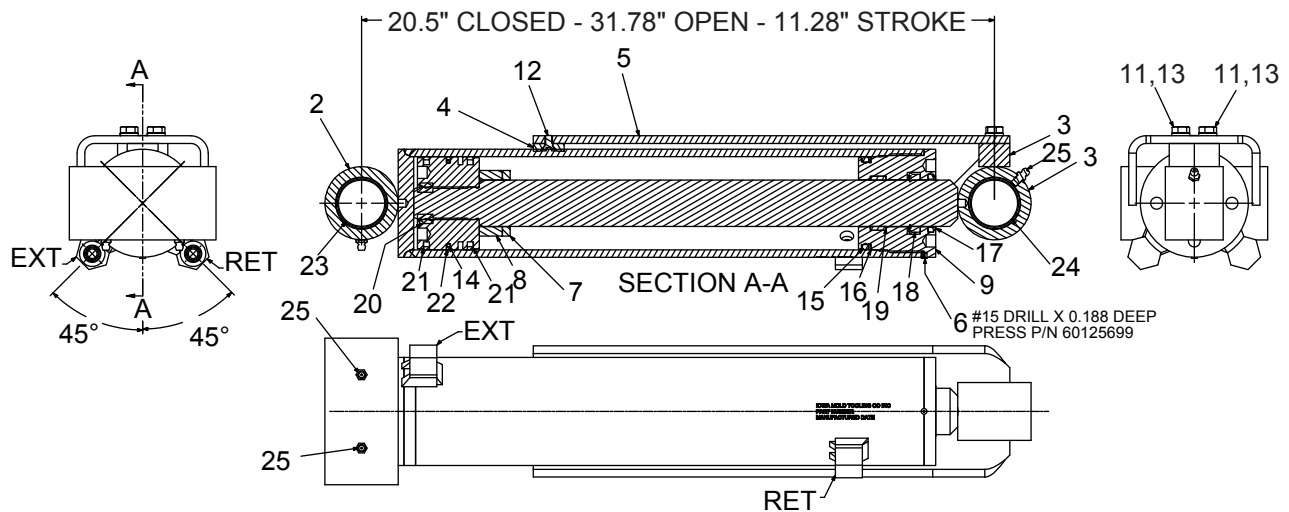
APPLY "LUBRIPLATE #630-2" MEDIUM HEAVY, MULTI-PURPOSE LUBRICANT OR EQUIVALENT TO ALL PISTON AND HEAD GLANDS, LOCK RING AND ROD THREADS BEFORE ASSEMBLY.

USE "NEVER-SEEZ" OR EQUIVALENT BETWEEN THE HEAD AND THE CASE WHEN ASSEMBLING THE CYLINDER.

ITEM #7, STOP TUBE, REPLACES 6A025015 WAFER LOCK. USE STOP TUBE INSTEAD OF WAFER LOCK WHEN RESEALING CYLINDER.

PRESS LOCKING PIN (ITEM #6) INTO #15 HOLE DRILLED 0.188" DEEP.

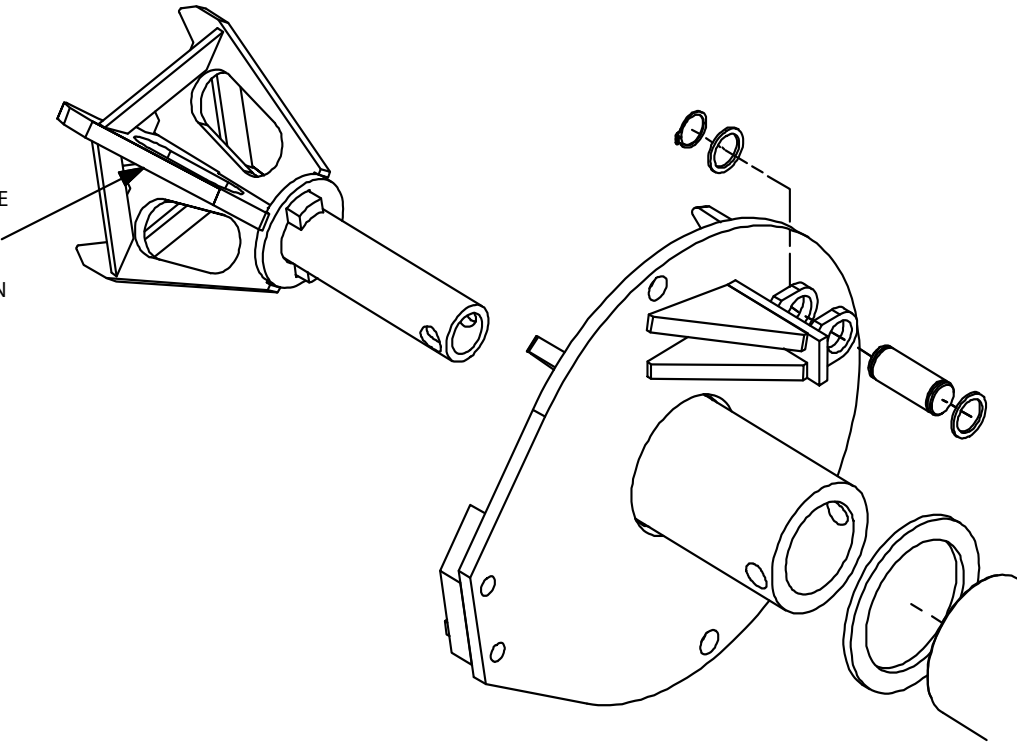
TORQUE PISTON TO 300-330 FT-LB AND HEAD TO 300 FT-LB.



**PAD EXTENSION KIT (30713926)**

| ITEM | PART NO. | DESCRIPTION   | QTY |    |          |                       |    |
|------|----------|---------------|-----|----|----------|-----------------------|----|
| 1.   | 52713919 | PAD EXTENSION | 2   | 3. | 72062137 | NUT 1-8 LOCK          | 6  |
| 2.   | 72601494 | CAP SCR 1-8X3 | 6   | 4. | 72063010 | WASHER 1 WRT          | 6  |
|      |          |               |     | 5. | 72062004 | NUT 1/2-13 HEX        | 24 |
|      |          |               |     | 6. | 72062134 | NUT 1/2-13 HIGH ACORN | 24 |
|      |          |               |     | 7. | 72060093 | CAP SCR 1/2-13X1-1/2  | 24 |
|      |          |               |     | 8. | 70394435 | DECAL-MAX TIRE WEIGHT | 4  |

MAX WEIGHT DECAL IS TO BE  
LOCATED HERE AND ON  
OPPOSITE SIDE OF EACH  
WELDMENT PAD EXTENSION



**MAXIMUM TIRE WEIGHT ALLOWED IS 2000 LBS.**

70394435



## INSTALLATION INSTRUCTIONS-PAD EXTENSION KIT (30713926)

### WARNING

BEFORE ATTEMPTING INSTALLATION OF THE KIT, LOWER THE TIREHAND TO THE STOWED POSITION ON THE TRUCK BED.

### NOTE

REFER TO DRAWING ON PREVIOUS PAGE FOR REFERENCE AND PARTS LISTING.

This installation can be performed by a single person in approximately 30 minutes. Listed below are tools which are required to perform this installation.

| QTY | DESCRIPTION   |
|-----|---|
| 2   | 1-1/2" OPEN END WRENCH<br>OR CRESCENT WRENCH                        |
| 2   | 3/4" OPEN END WRENCH<br>OR 3/4" SOCKET WRENCH<br>OR CRESCENT WRENCH |

- Before attaching the Pad Extensions to the Tirehand, check that the twelve 1/2" cap screws, hex nuts and acorn nuts have been assembled to each pad extension. If not, install the 1/2" cap screws (item 7), 1/2" hex nuts (item 5), and 1/2" acorn nuts (item 6) as shown in the drawing. Tighten firmly.
- Retract the Pad Rotation Cylinders completely.
- While the Pad Rotation Cylinders are retracted completely, place the Pad Extension (item 1) on the existing Pad with the Locating Stud (See drawing) in the Top Hole of the standard pad.
- Once the Pad Extension is positioned on the locating stud, install the front and bottom 1" Cap Screws (item 2), 1" Washers (item 4), and 1" Lock Nuts (item 3).
- Extend the Pad Rotation Cylinders fully.
- With the Pad Rotation Cylinders fully extended, install the remaining 1" Cap Screw, Washer and Nut in each pad. The remaining hole should be in the top position.
- Once the Pad Extensions are firmly attached to the Tirehand 14 pads, be certain to apply the four decals (item 8), positioned as shown in the detail on the drawing.

## PRECAUTIONS WHEN USING PAD EXTENSION KIT (30713926)

**PAD EXTENSIONS MUST BE USED IN PAIRS.**

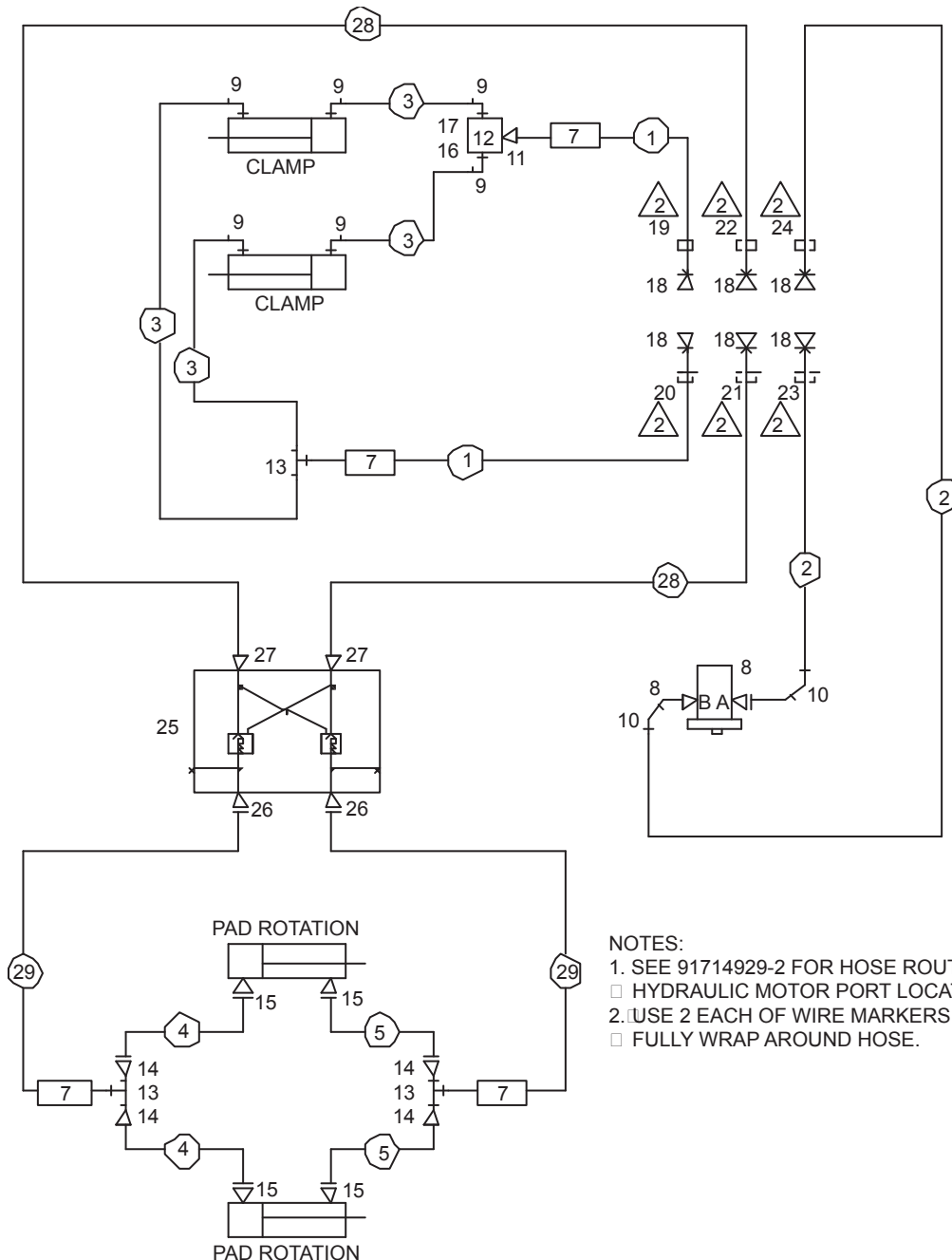
**PAD EXTENSIONS ARE DESIGNED FOR LIFTING TIRES AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE.**

**WHEN USING PAD EXTENSIONS, THE MAXIMUM LOAD IS LIMITED TO 2000 LBS (907 KGS).**

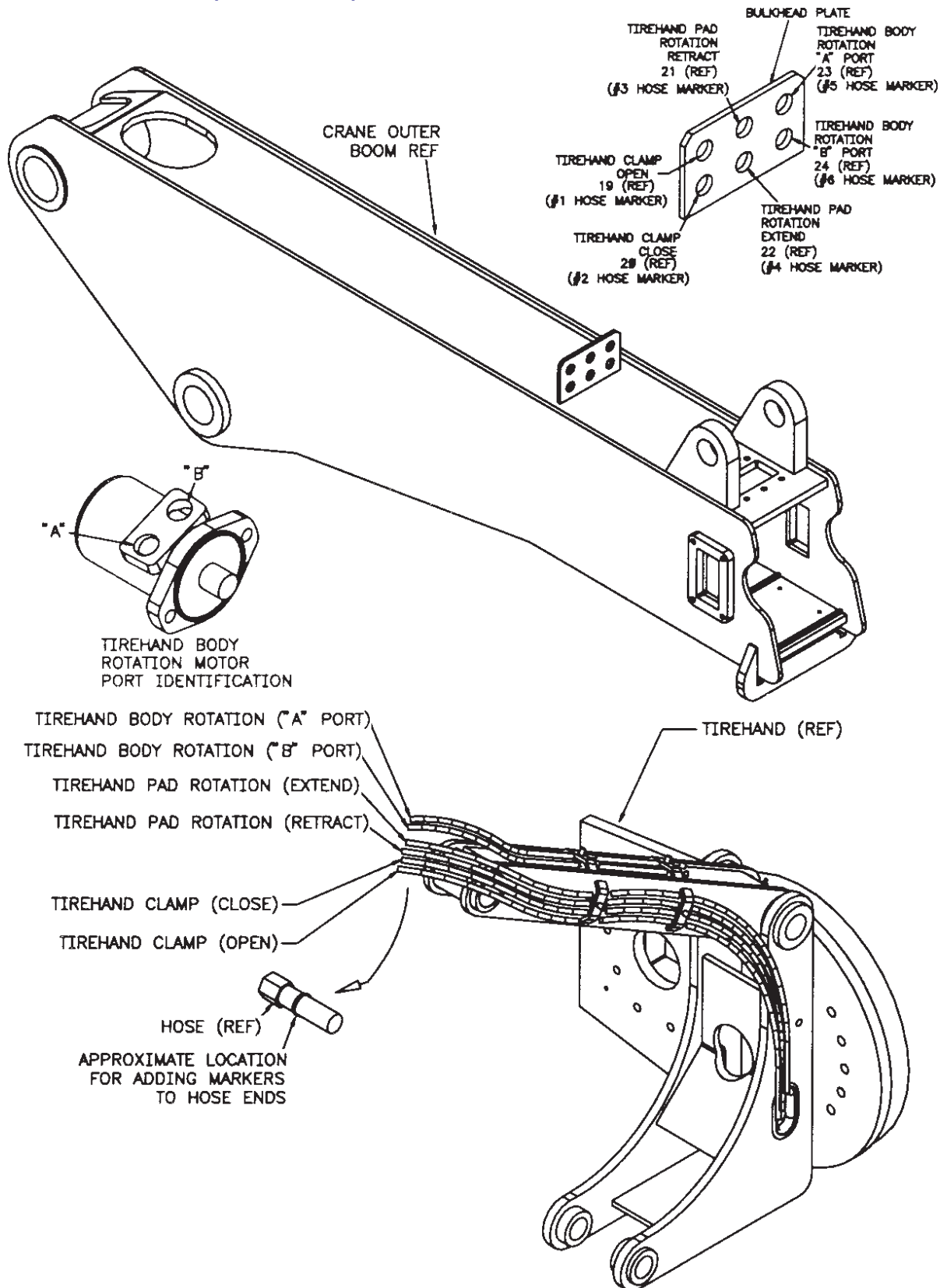
**HYDRAULIC KIT (91714929-1)**

| ITEM | PART NO. | DESCRIPTION                 | QTY  |
|------|----------|-----------------------------|------|
| 1.   | 51395202 | HOSE ASM 3/8X83 #8F#8F      | 2REF |
| 2.   | 51395203 | HOSE ASM 3/8X72 #6F#8F      | 2REF |
| 3.   | 51395204 | HOSE ASM 3/8X45 #8F#8F      | 4REF |
| 4.   | 51395205 | HOSE ASM 1/4X117-1/2 #4F#4F | 2REF |
| 5.   | 51395206 | HOSE ASM 1/4X129-1/2 #4F#4F | 2REF |
| 6.   | 51714931 | HOSE KIT (INCL:1-5,28,29)   | 1    |
| 7.   | 72532980 | ADAPTER-PR SW INLINE        | 4    |
| 8.   | 72532992 | ADAPTER #4MSTR #6FSTR       | 2    |
| 9.   | 72053763 | ELBOW #8MSTR #8MJIC 90°     | 6    |
| 10.  | 72053776 | ELBOW #6MSTR #6MJIC 90°     | 2    |
| 11.  | 72532358 | ADAPTER #8MSTR #8MJIC       | 1    |
| 12.  | 73054922 | FLOW DIVIDER VALVE          | 1    |
| 13.  | 72531205 | TEE #8MJIC 1/2TUBE          | 3    |
| 14.  | 72532665 | ADAPTER #4MJIC #8FJIC       | 4    |

|     |          |                              |      |
|-----|----------|------------------------------|------|
| 15. | 72532351 | ADAPTER #4MSTR #4MJIC        | 4    |
| 16. | 72060009 | CAP SCR 1/4-20X2-1/4 HHGR5   | 2    |
| 17. | 72063001 | WASHER 1/4 WRT               | 2    |
| 18. | 72532679 | PLUG #8JIC HH STL            | 6    |
| 19. | 70145798 | WIRE MARKER 43-001           | 2    |
| 20. | 70145831 | WIRE MARKER 43-002           | 2    |
| 21. | 70145832 | WIRE MARKER 43-003           | 2    |
| 22. | 70145833 | WIRE MARKER 43-004           | 2    |
| 23. | 70145834 | WIRE MARKER 43-005           | 2    |
| 24. | 70145835 | WIRE MARKER 43-006           | 2    |
| 25. | 5V312990 | VALVE BANK, SGL 16 GPM #8SAE | 1    |
| 26. | 72053761 | ELBOW #8MSTR #6MJIC 90DEG    | 2    |
| 27. | 72532358 | ADPTR #8MSTR #8MJIC          | 2    |
| 28. | 51395082 | HOSE-FF 3/8X68 (8-8)         | 2REF |
| 29. | 51396788 | HOSE-FJ 3/8X30 (8-6)         | 2REF |

**NOTES:**

- SEE 91714929-2 FOR HOSE ROUTINGS AND  
□ HYDRAULIC MOTOR PORT LOCATIONS.
- USE 2 EACH OF WIRE MARKERS 19-24 TO  
□ FULLY WRAP AROUND HOSE.

**HYDRAULIC KIT (91714929-2)****NOTES:**

1. ON THE TIREHAND BODY ROTATION MOTOR TURN THE COUNTER BALANCE VALVE SETTING SCREWS CLOCKWISE UNTIL THEY SEAT.

**SECTION 3. REFERENCE**

**GREASE ZERK LOCATIONS & LUBRICANT REQUIREMENTS .....3-3**

**TORQUE DATA CHART-DOMESTIC ..... 3-4**

**TORQUE DATA CHART-METRIC ..... 3-5**

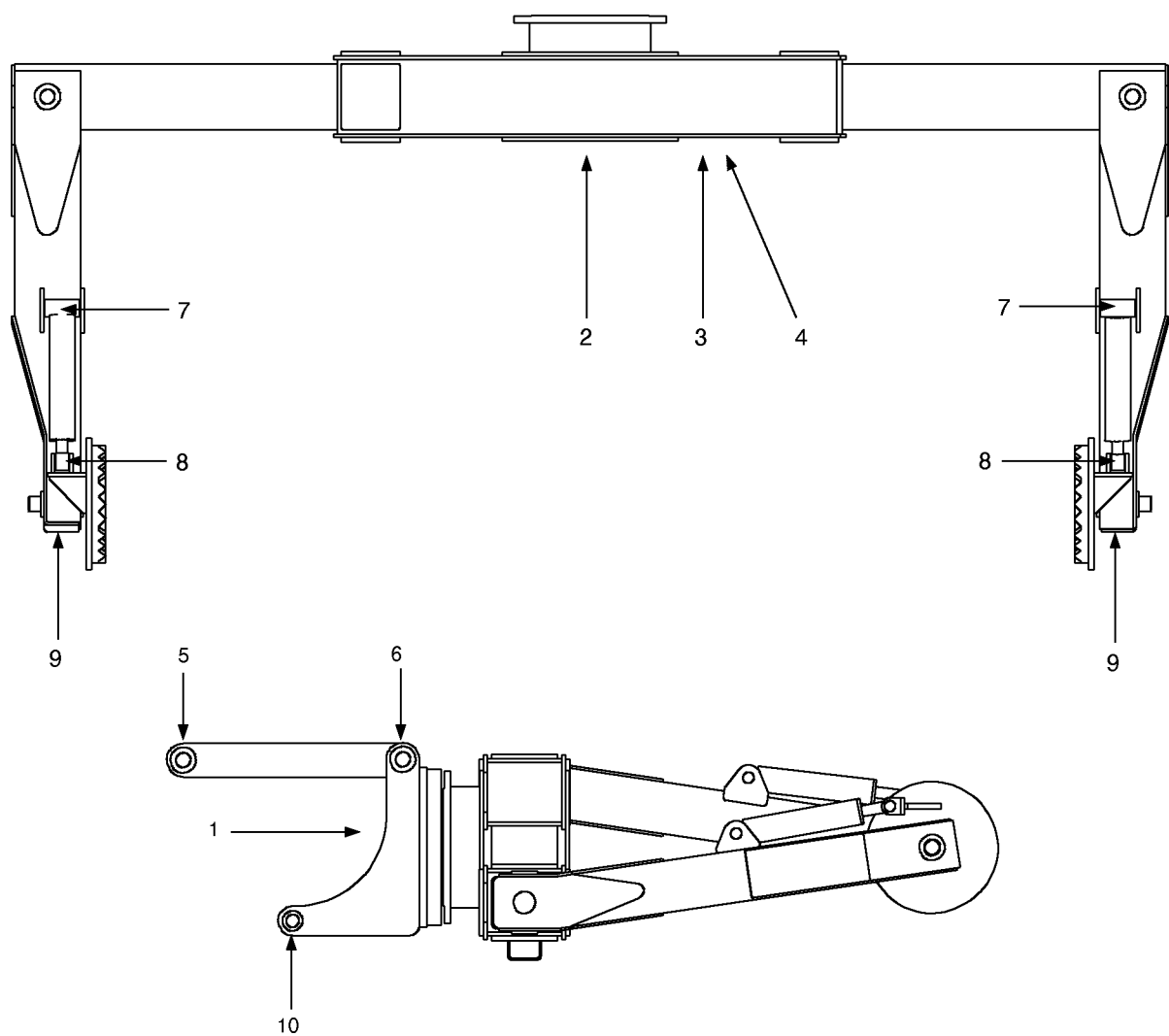
**TURNTABLE BEARING FASTENER TIGHTENING SEQUENCE ..... 3-6**

**TURNTABLE BEARING INSPECTION FOR REPLACEMENT .....3-7**

**RECOMMENDED SPARE PARTS LIST .....3-8**

0000TH14:99900763:20140403

3-2  
**NOTES**

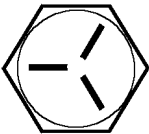



| ITEM | LOCATION DESCRIPTION | LUBRICANT                                    | FREQUENCY |
|------|----------------------|--|-----------|
|      |                      | SHELL ALVANIA 2EP<br>OR<br>SHELL RETINAX "A" | WEEKLY    |

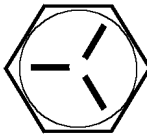

NOTE: All application points must be greased weekly under normal work loads and moderate weather conditions. Under severe operating conditions, lubrication should be performed more frequently. See Volume 1; Operation, Maintenance and Repair for additional lubrication requirements.

# TORQUE DATA CHART - DOMESTIC

## FINE THREAD BOLTS

| SIZE<br>(DIA-TPI) | BOLT DIA<br>(INCHES) | TIGHTENING TORQUE   |                   |   |                   |
|-------------------|----------------------|---|-------------------|---|-------------------|
|                   |                      |  |                   |  |                   |
|                   |                      | SAE J429<br>GRADE 5   |                   | SAE J429<br>GRADE 8   |                   |
|                   |                      | PLAIN<br>(FT-LB)  | PLATED<br>(FT-LB) | PLAIN<br>(FT-LB)  | PLATED<br>(FT-LB) |
| 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<br>(DIA-TPI) | BOLT DIA<br>(INCHES) | TIGHTENING TORQUE   |                   |   |                   |
|-------------------|----------------------|---|-------------------|---|-------------------|
|                   |                      |  |                   |  |                   |
|                   |                      | SAE J429<br>GRADE 5   |                   | SAE J429<br>GRADE 8   |                   |
|                   |                      | PLAIN<br>(FT-LB)  | PLATED<br>(FT-LB) | PLAIN<br>(FT-LB)  | PLATED<br>(FT-LB) |
| 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.

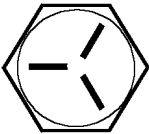

1. Bolt manufacturer's particular specifications should be consulted when provided.
2. Flat washers of equal strength must be used.
3. All torque measurements are given in foot-pounds. To convert to inch-pounds, multiply by 12.
4. Torque values specified are for bolts with residual oils or no special 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.
5. Torque values for socket-head capscrews are the same as for Grade 8 capscrews.

### WARNING

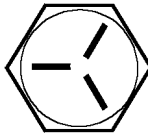

Anytime a gear-bearing bolt is removed, it must be replaced with a new bolt of the identical grade and size. Once a bolt has been torqued to 75% of its proof load and then removed, the torque coefficient may no longer be the same as when the bolt was new thus giving indeterminate clamp loads after torquing. 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<br>(DIA-TPI) | BOLT DIA<br>(INCHES) | TIGHTENING TORQUE   |                  |   |                  |
|-------------------|----------------------|---|------------------|---|------------------|
|                   |                      |  |                  |  |                  |
|                   |                      | SAE J429<br>GRADE 5   |                  | SAE J429<br>GRADE 8   |                  |
|                   |                      | PLAIN<br>(KG-M)   | PLATED<br>(KG-M) | PLAIN<br>(KG-M)   | PLATED<br>(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<br>(DIA-TPI) | BOLT DIA<br>(INCHES) | TIGHTENING TORQUE   |                  |   |                  |
|-------------------|----------------------|---|------------------|---|------------------|
|                   |                      |  |                  |  |                  |
|                   |                      | SAE J429<br>GRADE 5   |                  | SAE J429<br>GRADE 8   |                  |
|                   |                      | PLAIN<br>(KG-M)   | PLATED<br>(KG-M) | PLAIN<br>(KG-M)   | PLATED<br>(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, collodial 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.
5. Torque values for socket-head capscrews are the same as for Grade 8 capscrews.

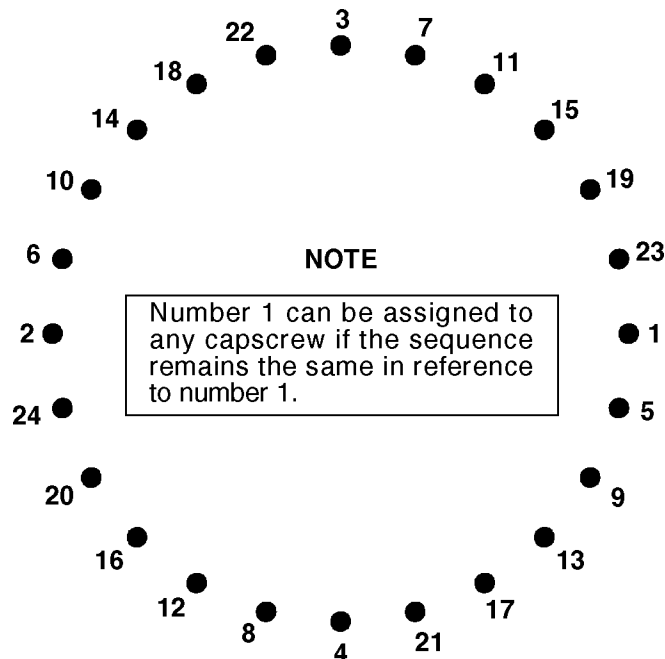
### WARNING

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 cap screw used.
2. Follow the tightening sequence shown in the diagram. Note that the quantity of cap screws may differ from the diagram, but the sequence must follow the criss-cross pattern as shown in the diagram.
3. Torque all cap screws to approximately 40% of the specified torque value, by following the sequence.  
(EXAMPLE: .40 x 265 FT-LBS = 106 FT-LBS)  
(EXAMPLE-METRIC: .40 x 36 KG-M = 14.4 KG-M)
4. Repeat Step 3, but torqueing all cap screws 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 cap screws to the listed torque value as determined from the Torque Data Chart.

## TURNABLE 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

#### STEP 1.

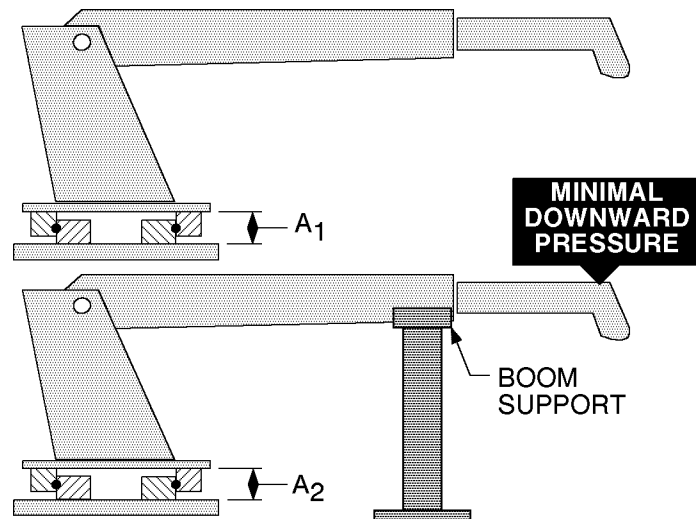
With the crane horizontal and fully extended, measure between the top and bottom mounting surfaces of the turntable bearing (A1), using a dial indicator for accuracy.

#### STEP 2.

Reverse the load by applying minimal downward pressure on the boom while the boom is in the boom support or on a solid surface. Again measure A2.

#### STEP 3.

Subtract A1 from A2 to determine tilt and compare the result with the accompanying chart.



**COMPARISON CHART - MODEL TO MEASURED TILT DIMENSION**

|  |  |  |   |  |  |
|--|--|--|---|--|--|
| <b>NOTE</b><br>THE FIGURES LISTED IN THIS CHART ARE SERVICE GUIDELINES AND DO NOT, IN THEMSELVES, REQUIRE THAT THE BEARING BE INSPECTED.<br><br>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. | <b>IMT<br/>CRANE,<br/>LOADER<br/>OR<br/>TIREHAND<br/>MODEL</b> | 1007<br>1014<br>2015<br>2015GH<br>2109<br>2200<br>3000<br>3016<br>321GH<br>3816<br>425<br>4300<br>5016<br>6016<br>TH7 BODY ROT'N<br>TH1449 BODY ROT'N<br>TH15B CLAMP<br>TH2551B CLAMP<br>TH2557A CLAMP | 5200<br>5200R<br>5217<br>5800<br>7020<br>7025<br>7200<br>7415<br>9000<br>TH10 BODY ROT'N<br>TH14 BODY ROT'N | 16035<br>16042<br>32018<br>32030<br>T30<br>T40 | 9800<br>12916<br>13031<br>13034<br>14000<br>15000<br>18000<br>20017<br>H1200<br>H1200RR<br>T50<br>TH2551B BODY ROT'N<br>TH2557B BODY ROT'N<br>TH2557A BODY ROT'N |
|  | <b>BALL DIA.<br/>(REF)</b>                                     | .875"<br>(22mm)  | 1.00"<br>(25mm)   | 1.18"-1.25"<br>(30-32mm)                       | 1.75"<br>(44mm)  |
|  | <b>TILT DIM.<br/>(A<sub>1</sub>-A<sub>2</sub>)</b>             | .060"<br>(1.524mm)   | .070"<br>(1.778mm)  | .075"<br>(1.905mm)                             | .090"<br>(2.286mm)   |

**RECOMMENDED SPARE PARTS LIST****1 YEAR SUPPLY****TIREHAND 14****FOR MANUAL: 99900763****EFFECTIVE FROM 10/17/13**

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.

| <b>ASSEMBLY DESIGNATION</b> | <b>ITEM NO.</b>              | <b>PART NO.</b> | <b>DESCRIPTION</b> | <b>QTY</b> | <b>CODE</b> |
|-----------------------------|------------------------------|-----------------|--------------------|------------|-------------|
| <b>40725636</b>             | <b>YOKE ASM</b>              |                 |                    |            |             |
|                             | 15                           | 71056265        | PINION GEAR        | 1          | C           |
|                             | 7                            | 60020123        | THRUST WASHER      | 1          | W           |
|                             | 6                            | 60020033        | THRUST WASHER      | 1          | W           |
| <b>40725242</b>             | <b>BODY ASM</b>              |                 |                    |            |             |
|                             | 2                            | 60030492        | WEAR PAD           | 4          | W           |
|                             | 3                            | 60030493        | WEAR PAD           | 4          | W           |
|                             | 21                           | 76393209        | DOCK BUMPER        | 2          | W           |
| <b>40725459</b>             | <b>ARM ASM</b>               |                 |                    |            |             |
|                             | 10                           | 60030490        | WEAR PAD           | 4          | W           |
|                             | 11                           | 60030494        | WEAR PAD           | 4          | W           |
|                             | 18                           | 70055332        | BUSHING            | 2          | W           |
| <b>91714929</b>             | <b>HYDRAULIC KIT</b>         |                 |                    |            |             |
|                             | 12                           | 73054922        | FLOW DIVIDER VALVE | 1          | W           |
| <b>3B004940</b>             | <b>CLAMP CYLINDER</b>        |                 |                    |            |             |
|                             | 4                            | 73054004        | CHECK VALVE        | 2          | C           |
|                             | 6                            | 6I402144        | PISTON             | 1          | W           |
|                             | 7                            | 6H040020        | HEAD               | 1          | W           |
|                             | 8                            | 9B015930        | SEAL KIT           | 2          | W           |
| <b>3B111870</b>             | <b>PAD ROTATION CYLINDER</b> |                 |                    |            |             |
|                             | 10                           | 6I030106        | PISTON             | 1          | W           |
|                             | 9                            | 6H030015        | HEAD               | 1          | W           |
|                             | 1                            | 9C121217        | SEAL KIT           | 2          | W           |
|                             | 4                            | 5F022850        | WEAR PAD           | 2          | W           |
|                             | 23                           | 7BF81015        | BUSHING            | 8          | W           |
|                             | 24                           | 7BF80715        | BUSHING            | 4          | W           |

**RECOMMENDED SPARE PARTS LIST****1 YEAR SUPPLY****TIREHAND 14****FOR MANUAL: 99900763****EFFECTIVE TO 10/16/13**

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.

| <b>ASSEMBLY DESIGNATION</b> | <b>ITEM NO.</b>              | <b>PART NO.</b> | <b>DESCRIPTION</b> | <b>QTY</b> | <b>CODE</b> |
|-----------------------------|------------------------------|-----------------|--------------------|------------|-------------|
| <b>40715764</b>             | <b>YOKE ASM</b>              |                 |                    |            |             |
|                             | 8                            | 71056265        | PINION GEAR        | 1          | C           |
|                             | 10                           | 60020123        | THRUST WASHER      | 1          | W           |
|                             | 11                           | 60020033        | THRUST WASHER      | 1          | W           |
|                             | 12                           | 60020181        | BUSHING            | 1          | W           |
|                             | 13                           | 60020182        | BUSHING            | 1          | W           |
|                             | 14                           | 60020180        | BUSHING            | 1          | W           |
|                             | 33                           | 7BF82020        | BUSHING            | 4          | W           |
| <b>40712056</b>             | <b>BODY ASM</b>              |                 |                    |            |             |
|                             | 4                            | 60030187        | WEAR PAD           | 8          | W           |
|                             | 19                           | 76393208        | DOCK BUMPER        | 2          | W           |
| <b>40712089</b>             | <b>ARM ASM</b>               |                 |                    |            |             |
|                             | 7                            | 60030125        | WEAR PAD           | 4          | W           |
|                             | 8                            | 60030300        | WEAR PAD           | 4          | W           |
|                             | 27                           | 7BF82020        | BUSHING            | 4          | W           |
| <b>91714929</b>             | <b>HYDRAULIC KIT</b>         |                 |                    |            |             |
|                             | 12                           | 73054922        | FLOW DIVIDER VALVE | 1          | W           |
| <b>3B004940</b>             | <b>CLAMP CYLINDER</b>        |                 |                    |            |             |
|                             | 4                            | 73054004        | CHECK VALVE        | 2          | C           |
|                             | 6                            | 6I402144        | PISTON             | 1          | W           |
|                             | 7                            | 6H040020        | HEAD               | 1          | W           |
|                             | 8                            | 9B015930        | SEAL KIT           | 2          | W           |
| <b>3B111870</b>             | <b>PAD ROTATION CYLINDER</b> |                 |                    |            |             |
|                             | 10                           | 6I030106        | PISTON             | 1          | W           |
|                             | 9                            | 6H030015        | HEAD               | 1          | W           |
|                             | 1                            | 9C121217        | SEAL KIT           | 2          | W           |
|                             | 4                            | 5F022850        | WEAR PAD           | 2          | W           |
|                             | 23                           | 7BF81015        | BUSHING            | 8          | W           |
|                             | 24                           | 7BF80715        | BUSHING            | 4          | W           |

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<br>MANUAL | MANUAL<br>PART NO. |
| SUBMITTED BY     |                   |                    |
| COMPANY          |                   |                    |
| ADDRESS          |                   |                    |
| CITY, STATE, ZIP |                   |                    |
| TELEPHONE        |                   |                    |

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ERROR FOUND

LOCATION OF ERROR (page no.): \_\_\_\_\_

DESCRIPTION OF ERROR: \_\_\_\_\_

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REQUEST FOR ADDITION TO MANUAL

DESCRIPTION OF ADDITION: \_\_\_\_\_

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REASON FOR ADDITION: \_\_\_\_\_

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MAIL TO: IOWA MOLD TOOLING Co., Inc.  
Box 189,  
Garner IA 50438-0189  
ATTN: Technical Publications

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