



RAILROAD CATALOG

TOOLS AND PARTS

2015

Honestly Better.™



RAILROAD PARTS CATALOG

Executive Summary

The L&H Industrial Railroad Parts Catalog is intended to educate our customers on the safe installation, maintenance and use of L&H's parts, assemblies and custom tools. These products are used in the predictive, planned, and corrective maintenance activities of Maintenance of Way equipment operating throughout the industry's track systems.

Our Railroad Parts Catalog is organized by two key support areas of MOW equipment, specialty tools and replacement parts. First, the catalog illustrates a custom line of tools to supplement our innovative solutions for railroad MOW equipment. Tools for safe maintenance and handling, quality assurance checks, kits, and job efficiency are included in the specialty tools section. Secondly, the catalog breakdowns our specific replacement parts solutions for the following machine brands as well as L&H's own improved designs including the L&H Omega Auto-Pregauger:

- Fairmount
- Jackson
- Kershaw
- Nordco
- Plassar

We have provided this catalog and information to quickly expedite the ordering and reordering process for all your MOW equipment maintenance needs.

Contact Us

For more information on specialty tools, replacement parts and machine solutions included in this catalog or additional solutions and services you may be interested in learning about from L&H Industrial, please contact:

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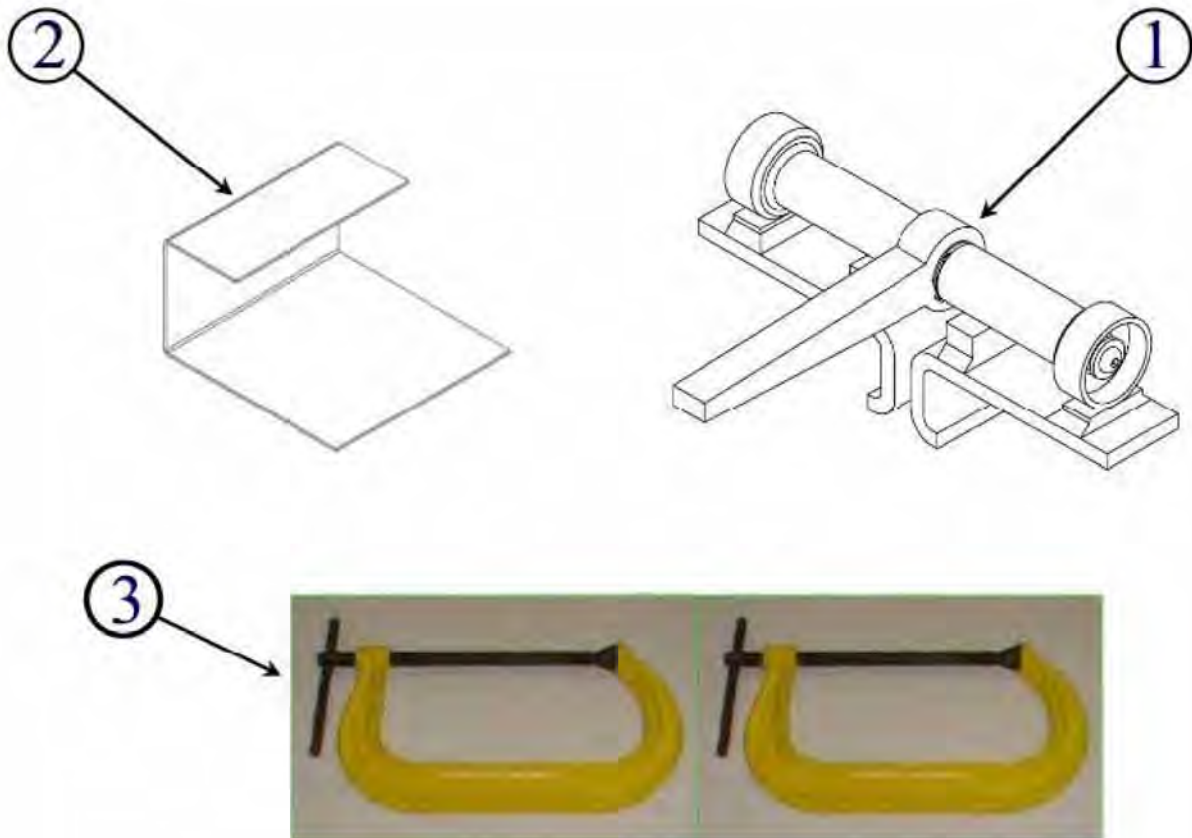


SECTION 1

Hand and Power Tools

01

Work Head Maintenance Kit for Jackson Tampers



PARTS LIST		
ITEM # AND DESCRIPTION	QTY	PART #
1. Vibrator Assy. Housing Spreader Tool	Qty. 1	LHR0655
2. Snubber Pad Retaining Channel	Qty. 1	LHR0661
3. 8" C-Clamp for Sandwich Mount	Qty. 2	LHP0108



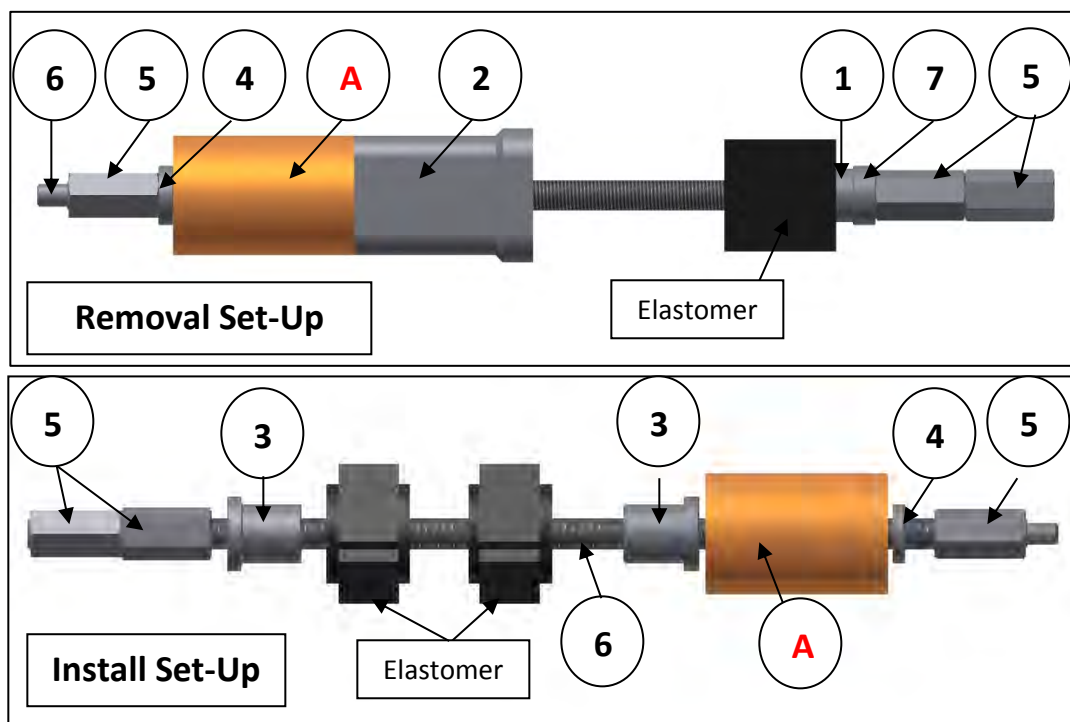
The vibrator assembly spreader tool kit increases the level of safety when doing routine maintenance on 6700 and 3300 vibrator assemblies. The tool is based around the concept of a turnbuckle device, where a reversible ratchet rotates the threaded shaft. This simple design allows you to achieve the maximum amount of clearance without difficulty. The maintenance tool kit consists of one vibrator housing spreader tool, one snubber pad retaining channel and two 8" C-Clamps for compressing the sandwich mounts for easier assembly.

LHR0758

Safety Bar for Work Heads on Jackson 6700 Tampers



Used on Jackson 6700 to safely secure the work head assemblies in a spread position. Bar locks on telescoping limit switch mount bar and holds the work heads open for access into the work head area for PM checks.

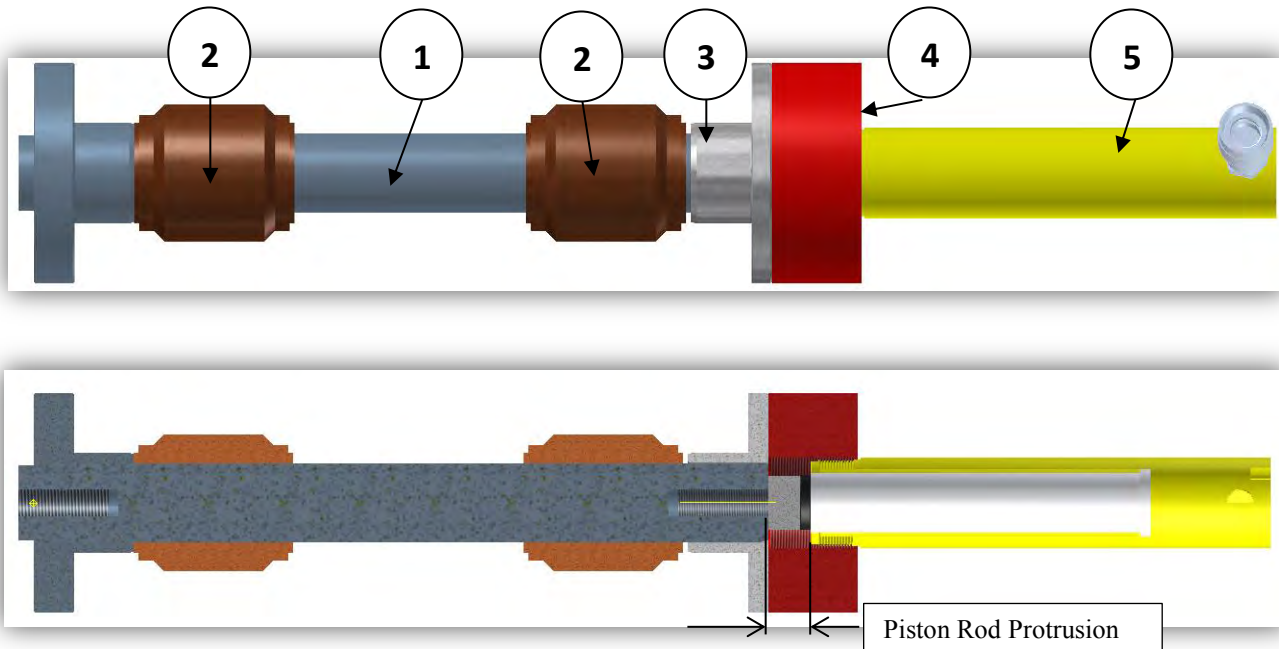
LHR0883-002**Elastomer Installation & Removal Tool
for Jackson 6700 & 3300 Tampers****PARTS LIST**

ITEM # & DESCRIPTION	QTY	PART #
1. Elastomer Puller Boss 1"	1	LHR7807
2. Elastomer Guide Box 1"	1	LHR1055-002
3. Elastomer Guide Insert 1"	2	LHR1056-001
4. Washer – Elastomer 1"	1	LHR1058-001
5. " Nut Coupling	3	LHR7806
6. " GR. B7 Threaded Rod	1	LHR7805
7. Elast er: Thick Washer	1	LHR7808
A. Hollow Bore Cylinder	1	LHP0003

This tool is designed to remove & install elastomers in Jackson Tampers. Tool is to be used with a hydraulic hollow bore jack only, as seen above. **Hollow Bore Cylinder (LHP0003)** not part of LHR0883-002 kit, it is purchased separately.

Maximum Load 20-Ton.

Adapter Tool to Remove Basket Pin in Jackson 6700 Tampers: 10-Ton

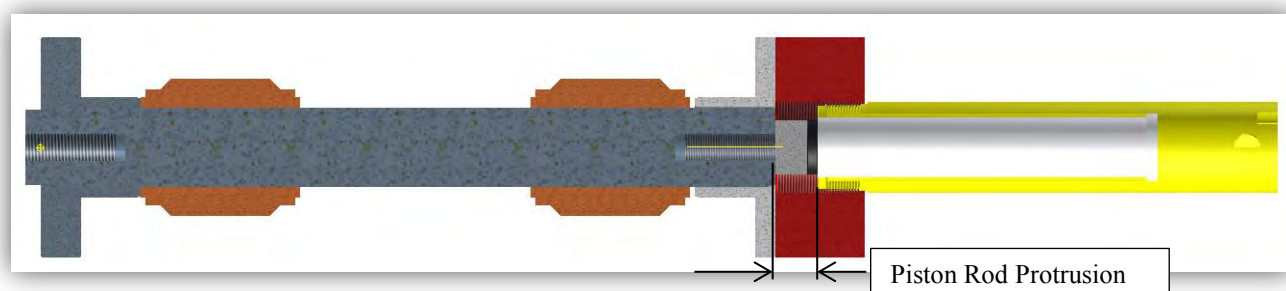
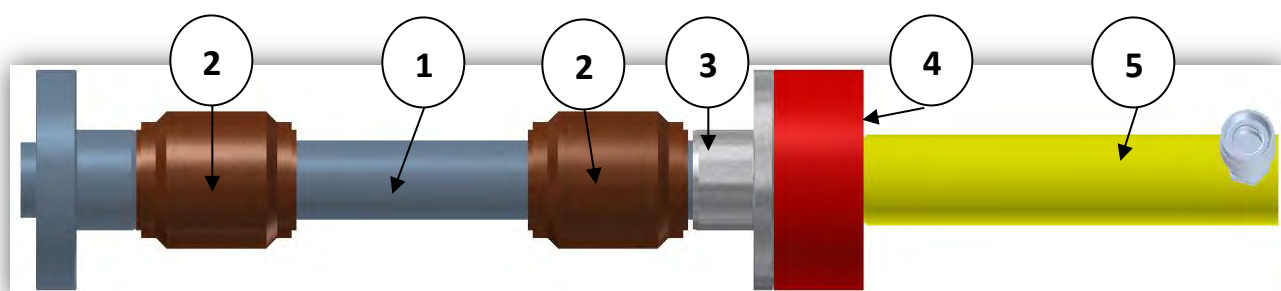


PARTS LIST		
ITEM # & DESCRIPTION	QTY	PART #
1. BASKET PIN	1	LHR0479-001
2. ELASTOMER	2	
3. RETAINER	1	LHR0482
4. PIN PUSH OUT ADAPTER: 10 TON	1	LHR1361
5. HYDRAULIC CYLINDER	1	N/A

The pin push out adapter (item 4) is designed to allow a hydraulic cylinder to press out the shaft (item 1) in a Jackson 6700. The adapter interfaces with a hydraulic cylinder that has 2-1/4" – 14 UNS threads on the outer diameter. The adapter is designed to be used with a piston rod protrusion of 1/4" to 1-1/16". The adapter is designed to use the same diameter of bolt as the retainer (item 3). The length of the bolt needs to be 2-1/4" longer than the bolt for the retainer (item 3) and needs to be a grade 8 bolt. The minimum required torque for the bolt is 65 ft-lbf.

Maximum Load 10-Ton.

Adapter Tool to Remove Basket Pin in Jackson 6700 Tampers: 15-Ton



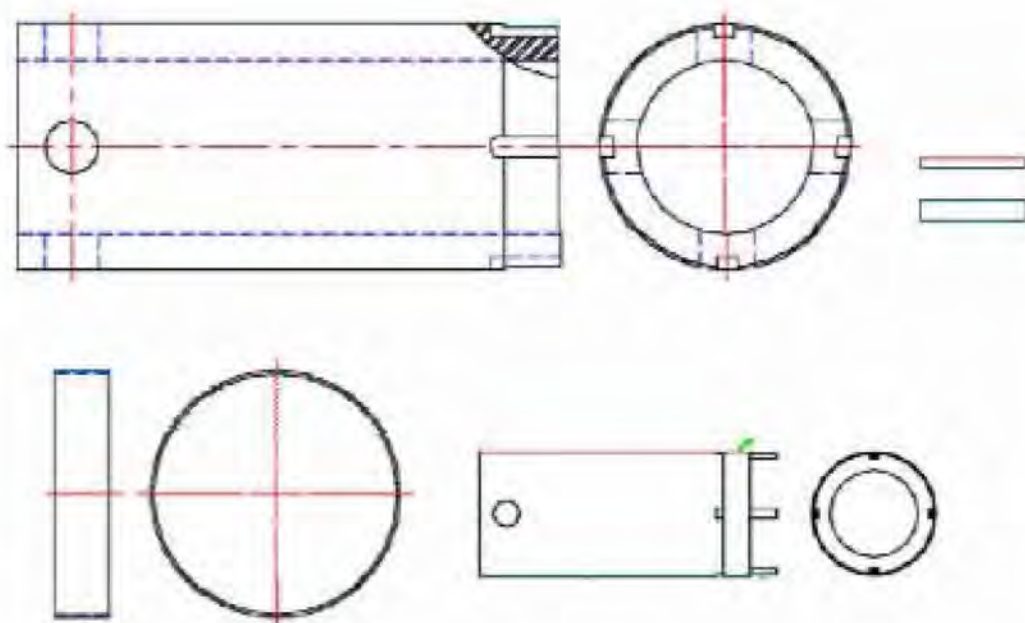
PARTS LIST		
ITEM # & DESCRIPTION	QTY	PART #
1. BASKET PIN	1	LHR0479-001
2. ELASTOMER	2	
3. RETAINER	1	LHR0482
4. PIN PUSH OUT ADAPTER: 15 TON	1	LHR1361-001
5. HYDRAULIC CYLINDER	1	N/A

The pin push out adapter (item 4) is designed to allow a hydraulic cylinder to press out the shaft (item 1) in a Jackson 6700. The adapter interfaces with a hydraulic cylinder that has 2-3/4" – 16 UN threads on the outer diameter. The adapter is designed to be used with a piston rod protrusion of 1/4" to 1-1/16". The adapter is designed to use the same diameter of bolt as the retainer (item 3). The length of the bolt needs to be 2 -1/4" longer than the bolt for the retainer (item 3) and needs to be a grade 8 bolt. The minimum required torque for the bolt is 100 ft-lbf.

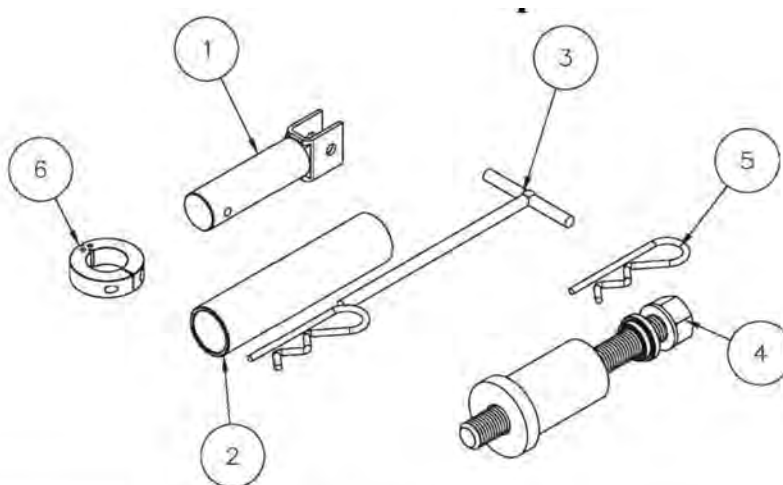
Maximum Load 15-Ton.

LHR0306

Work Arm Drive Socket



This socket is designed to engage with and turn the Work Arm Thread Chaser (LHR0305) on a McKay mini base clip remover.

LHR0755**Spike Driving Carriage Assembly Maintenance Kit for Nordco Model C Spikers**

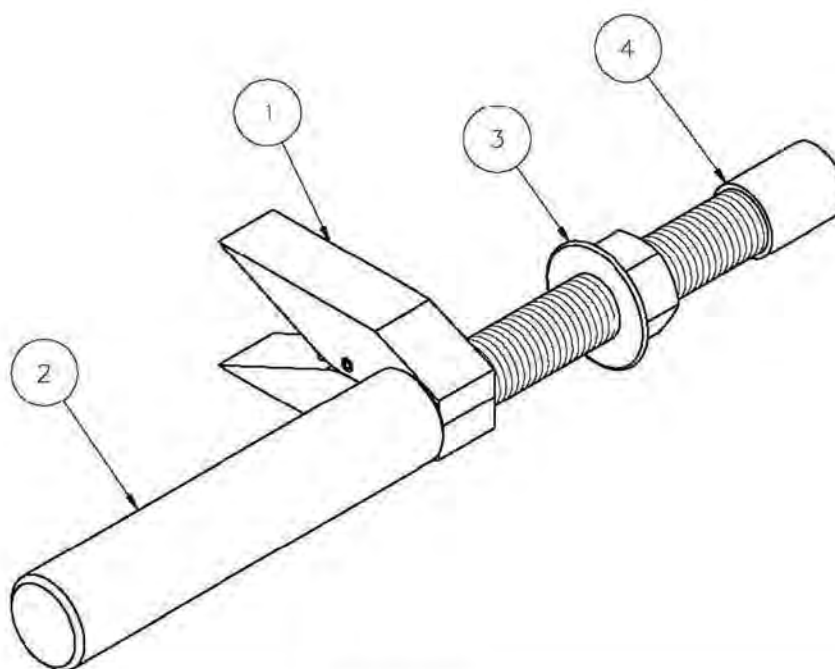
Parts List		
Description and Item #	QTY	Part #
1. Lock Pin	Qty. 4	LHR0729
2. Guide Rod Spacer Sleeve	Qty. 4	LHR0728
3. Safety Pin	Qty. 4	LHR0726
4. Bushing Puller/Installation Kit	Qty. 1	LHR0733
5. Modified Hair Pin	Qty. 4	LHR0739
6. Locking Collar	Qty. 4	LHR0308

The guide rod spacer sleeve can be placed over both guide rods of the jaw mounting casting, making it easier and safer to replace the anvil tips. The modified hairpin is designed to replace the original hair pins currently on the guide rods that will make it much easier to remove or install the hairpin clips for installing or removing the guide rod spacer sleeve noted above. When the split locking collar is placed on the large guide column for the driving cylinder it will eliminate the column and bottom plate from dropping unexpectedly during disassembly of the hammer workhead assembly. The lock pin will replace the existing Workhead lock pin that was originally furnished by Nordco. The bushing puller consists of the necessary special parts to easily replace the guide rod bushings in the guide block weldment that is attached to the heavy lower plate of the hammer work head.

LHR0755

Spike Driving Carriage Assembly Maintenance Kit for Nordco Model C Spikers



LHR0898**Spike Tray Bushing Replacement Tool for Nordco Super B, Hydro Hammer & Model 44**

Parts List		
Description & Item #	Quantity	Part #
1. Clamp	Qty. 1	LHR0896
2. Handle	Qty. 1	LHR0895
3. Nut	Qty. 1	F Nut Flanged 0.625-11
4. Bushing Pusher	Qty. 1	LHR0897

This tool is used to change the escapement housing bushing in Nordco spike chutes. It will also remove and install the upper pivot bushing.

LHR0898

Spike Tray Bushing Replacement Tool for Nordco Super B, Hydro Hammer & Model 44



LHR0898

Spike Tray Bushing Replacement Tool for Nordco Super B, Hydro Hammer & Model 44



LHR1320 4" Crows Foot Socket

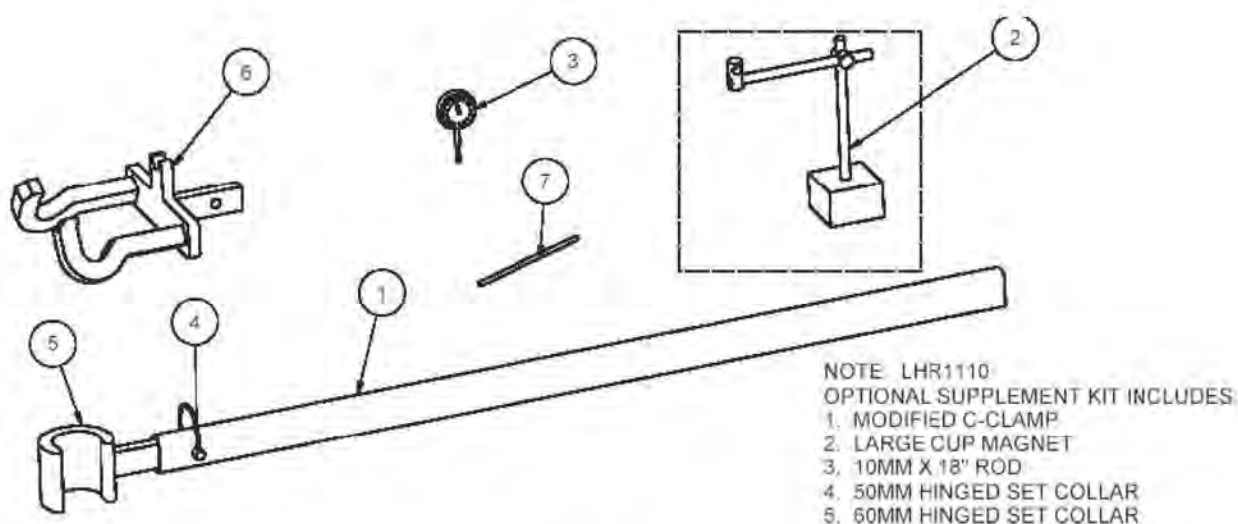
LHR1321 4-1/4" Crows Foot Socket



Enables torquing the axle nuts on Nordco spikers that use an external drive motor and drive chain.

LHR0873ASY

Tool Kit for: Lower Pivot Pin Bushing Clearance Tool for Plasser Tampers and Compensation Axle Bushing Clearance Tool for Plasser PTS Stabilizers



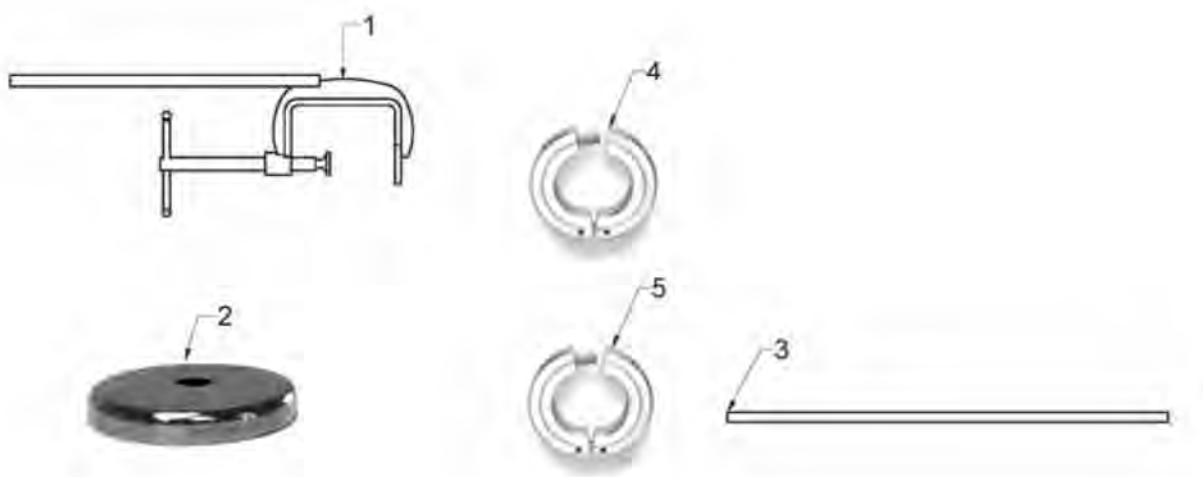
PARTS LIST			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	LHR0871	Lever Arm	1
2	LHC00134	Mighty Mag 2 Mag Base	1
3	LHC00272	Dial Indicator 0-1"	1
4	LHP5079	Snap Pin 3/8" D	1
5	LHR0873-001	Arm Adapter	1
6	LHR1136	PTS Wheel Lifting Tool	1
7	LHP5203	6" Dial Indicator Extension	1

Use of the tools in kit LHR0873ASY is demonstrated on pages 20-23.

LHR1110

Bushing Clearance Toolkit

Supplement for LHR0873ASY



PARTS LIST		
ITEM	PART NUMBER	DESCRIPTION
1	LHR1100	MODIFIED C-CLAMP
2	LHP5165	LARGE CUP MAGNET
3	LHP5166	10MM X 18" ROD
4	LHP5167	60 MM HINGED SET COLLAR
5	LHP5168	50 MM HINGED SET COLLAR

Plasser 09-16, 09-32 and 08-32 Tamping Arm Lower Pivot Pin Bushing Wear Chart

PLASSER 09-16, 09-32, & 08-32 TAMPING ARM LENGTHS			
SLEEVE-BUSHING CLEARANCE,	LONG	SHORT	CONDITION
INCHES	TOTAL DEFLECTION, IN.	TOTAL DEFLECTION, IN.	
0.002	0.010	0.007	NORMAL
0.003	0.015	0.010	NORMAL
0.004	0.020	0.013	NORMAL
0.005	0.025	0.016	NORMAL
0.006	0.031	0.020	NORMAL
0.007	0.036	0.023	NORMAL
0.008	0.041	0.026	REPORTABLE
0.009	0.046	0.029	REPORTABLE
0.010	0.051	0.033	REPORTABLE
0.011	0.056	0.036	REPORTABLE
0.012	0.061	0.039	ABNORMAL
0.013	0.066	0.043	ABNORMAL
0.014	0.071	0.046	ABNORMAL
0.015	0.076	0.049	ABNORMAL
0.016	0.081	0.052	CRITICAL
0.017	0.087	0.056	CRITICAL
0.018	0.092	0.059	CRITICAL
0.019	0.097	0.062	CRITICAL
0.020	0.102	0.065	CRITICAL



FIGURE 1. SIDE VIEW



FIGURE 2. FRONT VIEW

NOTES:

- * ATTACH MAGNETIC BASE TO BOTTOM OF THE WORKHEAD'S MAIN FRAME. MAG-BASE FACE FLUSH TO FRAME FACE (FIG.1)
- PLACE MAG-BASE SO THAT DIAL ARM CAN REACH AROUND WORK-ARM; ABOUT 4" INCHES FROM CENTER OF ARM PIN.
- * PLACE INDICATOR POINT HORIZONTAL, DIRECTLY INTO ARM'S SURFACE, AND LEVEL WITH THE ARM'S INNER-FLAT EDGE. SEE FIGURES ABOVE.

Plasser 09-3X Tamping Arm Lower Pivot Pin Bushing Wear Chart

PLASSER 09-3X TAMPING ARM LENGTHS (LENGTH IS FROM PIVOT PIN TO THE BASE OF THE ARM)				
SLEEVE-BUSHING CLEARANCE	LONG (390mm)	MEDIUM (280mm)	SHORT (240mm)	CONDITION
INCHES	TOTAL DEFLECTION, IN.	TOTAL DEFLECTION, IN.	TOTAL DEFLECTION, IN.	
0.002	0.011	0.007	0.005	NORMAL
0.003	0.016	0.010	0.008	NORMAL
0.004	0.021	0.013	0.011	NORMAL
0.005	0.026	0.017	0.013	NORMAL
0.006	0.032	0.020	0.016	NORMAL
0.007	0.037	0.024	0.019	NORMAL
0.008	0.042	0.027	0.021	REPORTABLE
0.009	0.048	0.030	0.024	REPORTABLE
0.010	0.053	0.034	0.027	REPORTABLE
0.011	0.058	0.037	0.029	REPORTABLE
0.012	0.064	0.040	0.032	ABNORMAL
0.013	0.069	0.044	0.035	ABNORMAL
0.014	0.074	0.047	0.037	ABNORMAL
0.015	0.079	0.050	0.040	ABNORMAL
0.016	0.085	0.054	0.042	CRITICAL
0.017	0.090	0.057	0.045	CRITICAL
0.018	0.095	0.060	0.048	CRITICAL
0.019	0.101	0.064	0.050	CRITICAL
0.020	0.106	0.067	0.053	CRITICAL



FIGURE 1. SIDE VIEW



FIGURE 2. FRONT VIEW

NOTES:

- * ATTACH MAGNETIC BASE TO BOTTOM OF THE WORKHEAD'S MAIN FRAME. MAG-BASE FACE FLUSH TO FRAME FACE. (FIG.1)
- * PLACE MAG-BASE SO THAT DIAL ARM CAN REACH AROUND WORK-ARM; ABOUT 4" INCHES FROM CENTER OF ARM PIN.
- * PLACE INDICATOR POINT HORIZONTAL, DIRECTLY INTO ARM'S SURFACE, AND LEVEL WITH THE ARM'S INNER-FLAT EDGE. SEE FIGURES ABOVE.

Plasser PTS Stabilizer Compensation Axle Bushing Wear Chart

(Utilizing LHR0872ASY Tool Kit)

BUSHING CLEARANCE	DIAL DEFLECTION	CONDITION
(INCH)	(INCH)	
0.010	0.012	NORMAL
0.012	0.014	NORMAL
0.014	0.016	NORMAL
0.016	0.019	NORMAL
0.018	0.021	NORMAL
0.020	0.023	NORMAL
0.022	0.026	NORMAL
0.024	0.028	NORMAL
0.026	0.030	NORMAL
0.028	0.033	NORMAL
0.030	0.035	NORMAL
0.032	0.037	NORMAL
0.034	0.040	NORMAL
0.036	0.042	NORMAL
0.038	0.044	NORMAL
0.040	0.047	NORMAL
0.042	0.049	REPORTABLE
0.044	0.051	REPORTABLE
0.046	0.054	REPORTABLE
0.048	0.056	REPORTABLE
0.050	0.058	REPORTABLE
0.052	0.061	ABNORMAL
0.054	0.063	ABNORMAL
0.056	0.065	ABNORMAL
0.058	0.068	ABNORMAL
0.060	0.070	ABNORMAL
0.062	0.072	CRITICAL
0.064	0.075	CRITICAL
0.066	0.077	CRITICAL
0.068	0.079	CRITICAL
0.070	0.082	CRITICAL
0.072	0.084	CRITICAL
0.074	0.086	CRITICAL
0.076	0.089	CRITICAL
0.078	0.091	CRITICAL
0.080	0.093	CRITICAL

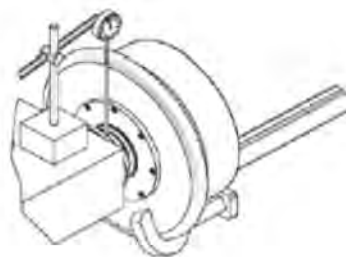


FIG 1. Attach magnetic base securely to frame.

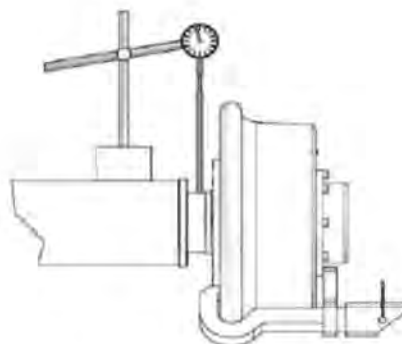


FIG 2. Place dial indicator, with indicator extension, in center of exposed axle area. Set dial to zero.

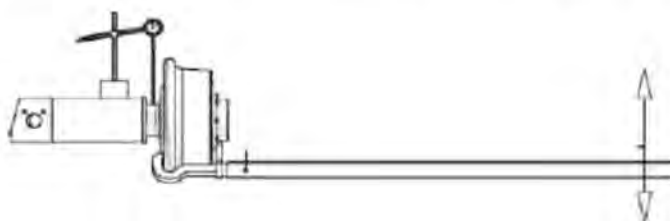


FIG 3. Lift handle until axle quits moving independent of the frame. Record dial indicator measurement at top of stroke, and compare to the chart above.

Plasser PTS Stabilizer Compensation Axle Wheel Bearing Wear Chart

(Utilizing LHR0873ASY Tool Kit)

BEARING CLEARANCE (INCH)	CONDITION
0.002	NORMAL
0.004	NORMAL
0.006	NORMAL
0.008	NORMAL
0.010	NORMAL
0.012	NORMAL
0.014	NORMAL
0.016	REPORTABLE
0.018	REPORTABLE
0.020	REPORTABLE
0.022	ABNORMAL
0.024	ABNORMAL
0.026	ABNORMAL
0.028	CRITICAL
0.030	CRITICAL
0.032	CRITICAL
0.034	CRITICAL
0.036	CRITICAL
0.038	CRITICAL
0.040	CRITICAL
0.042	CRITICAL
0.044	CRITICAL
0.046	CRITICAL
0.048	CRITICAL
0.050	CRITICAL
0.052	CRITICAL
0.054	CRITICAL
0.056	CRITICAL
0.058	CRITICAL
0.060	CRITICAL
0.062	CRITICAL
0.064	CRITICAL
0.066	CRITICAL
0.068	CRITICAL
0.070	CRITICAL
++++	CRITICAL

Clearance values are preliminary,
and are subject to change.



FIG 1. ATTACH MAG-BASE SECURELY TO FRAME.

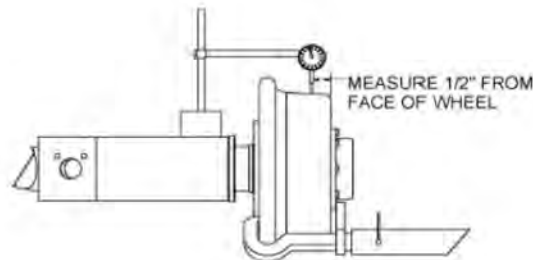


FIG 2. PLACE DIAL-INDICATOR ON WHEEL AS SHOWN
SET DIAL TO ZERO

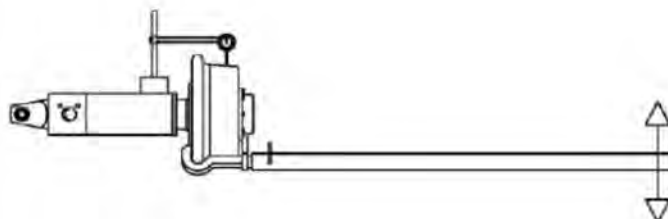


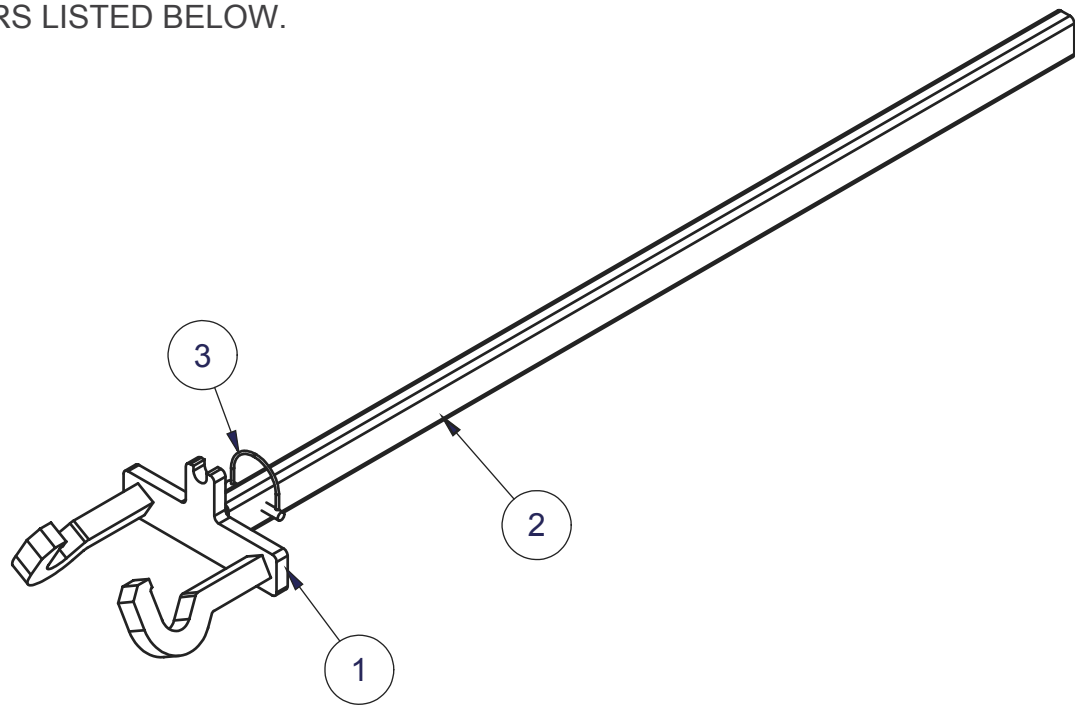
FIG 3. LIFT HANDLE TO REMOVE ALL BEARING CLEARANCE.
WHILE BEING CAREFUL NOT TO PICK UP THE AXLE WITHIN THE BUSHING.
RECORD DIAL INDICATOR READING AND COMPARE TO CHART.

LHR1136ASY

Wheel Lifting Tool for Checking Bushing and Bearing Clearance on Plasser PTS Stabilizers

NOTE:
LHR1136ASY IS PART OF LHR0873ASY
(THE BUSHING CLEARANCE TOOL KIT.)

ANY COMPONENT OF THIS ASSEMBLY CAN BE
ORDERED SEPARATELY BY USING THE PART
NUMBERS LISTED BELOW.

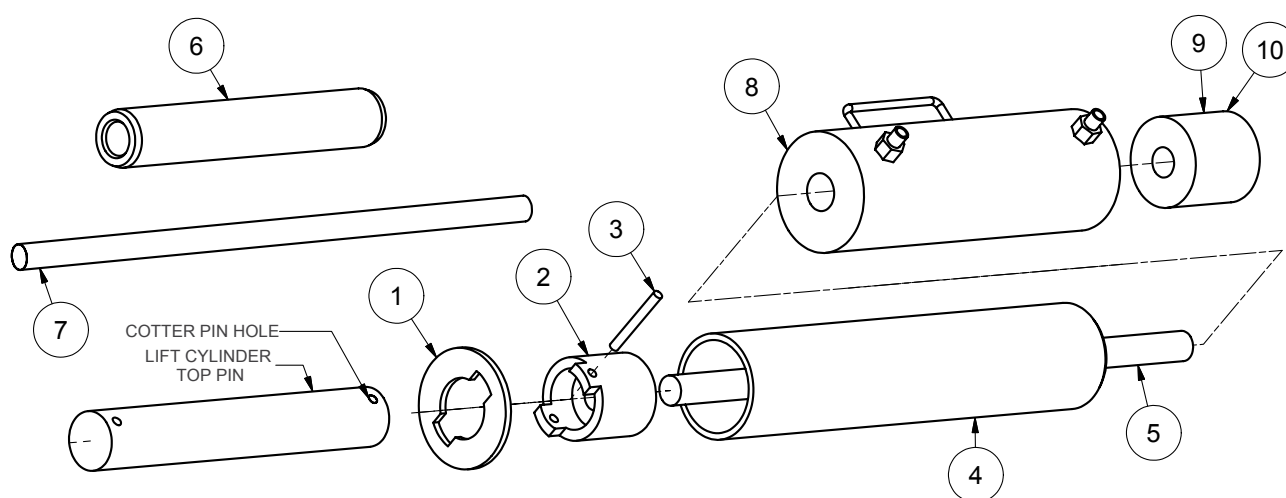


PartsList

ITEM	PART NUMBER	DESCRIPTION	REQ'D
1	LHR1136	PTS WHEEL LIFTING TOOL	1
2	LHR0871	LEVER ARM	1
3	LHP5079	SNAP PIN	1

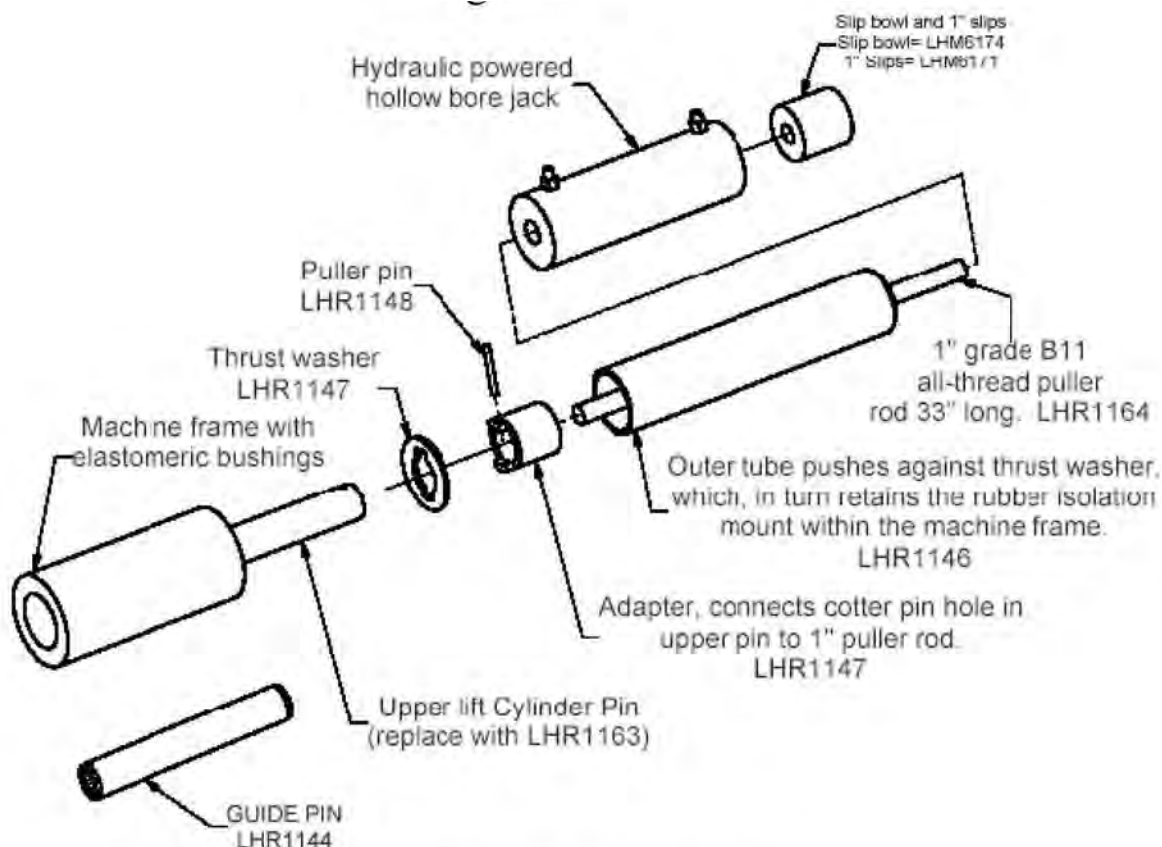
LHR1143

Use to Remove or Install the Upper
Lift Cylinder Pin in a PTS Stabilizer



Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	1	LHR1149	THRUST WASHER
2	1	LHR1147	ADAPTER
3	20	LHR1148	5/16 PULLER PIN
4	1	LHR1146	OUTER TUBE ASSEMBLY
5	1	LHR1164	1" ALL THREAD 33" LONG
6	2	LHR1144	INSTALLATION GUIDE PIN
7	1	LHR1165	1" ALL THREAD 46" LONG
8	1	LHP5215	HYDRAULIC HOLLOW BORE JACK
9	1	LHM6174	SLIP BOWL
10	1	LHM6171	1" PULLER SLIPS

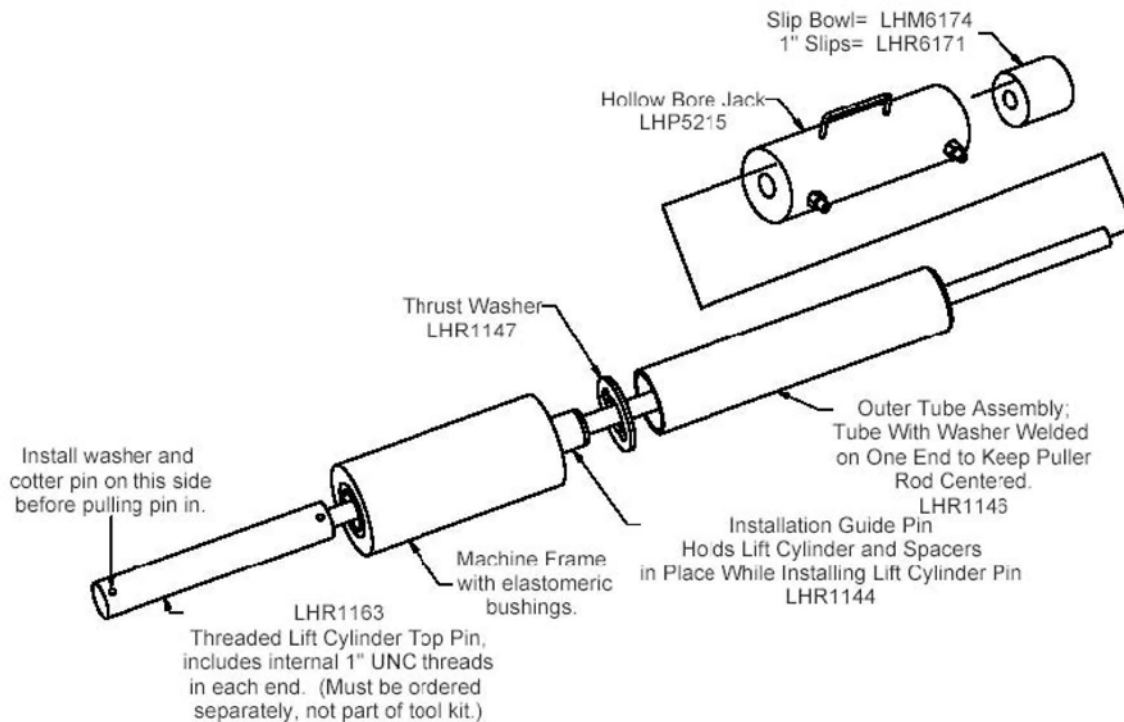
Instructions for Pulling Lift Cylinder Top Pin Utilizing LHR1143 Tool Kit



1. Remove cotter pins and washers on both sides of pin.
2. With emery paper or a file remove any burrs or sharp edges that may cause the pin to hang up as it is pulled.
3. Place thrust washer over pin.
4. Place adapter over end of pin.
5. Insert puller pin through adapter ears and cotter pin hole.
6. Slide 1" rod that is 33" long, through outer tube, then screw into adapter.
7. Pull pin using hollow bore jack. Follow the upper pin out of the frame with guide pin. (If Puller assembly is not supported, it will fall when the pin comes out. Pulling the pin will require at least two full stroke (6") pulls with the jack.)

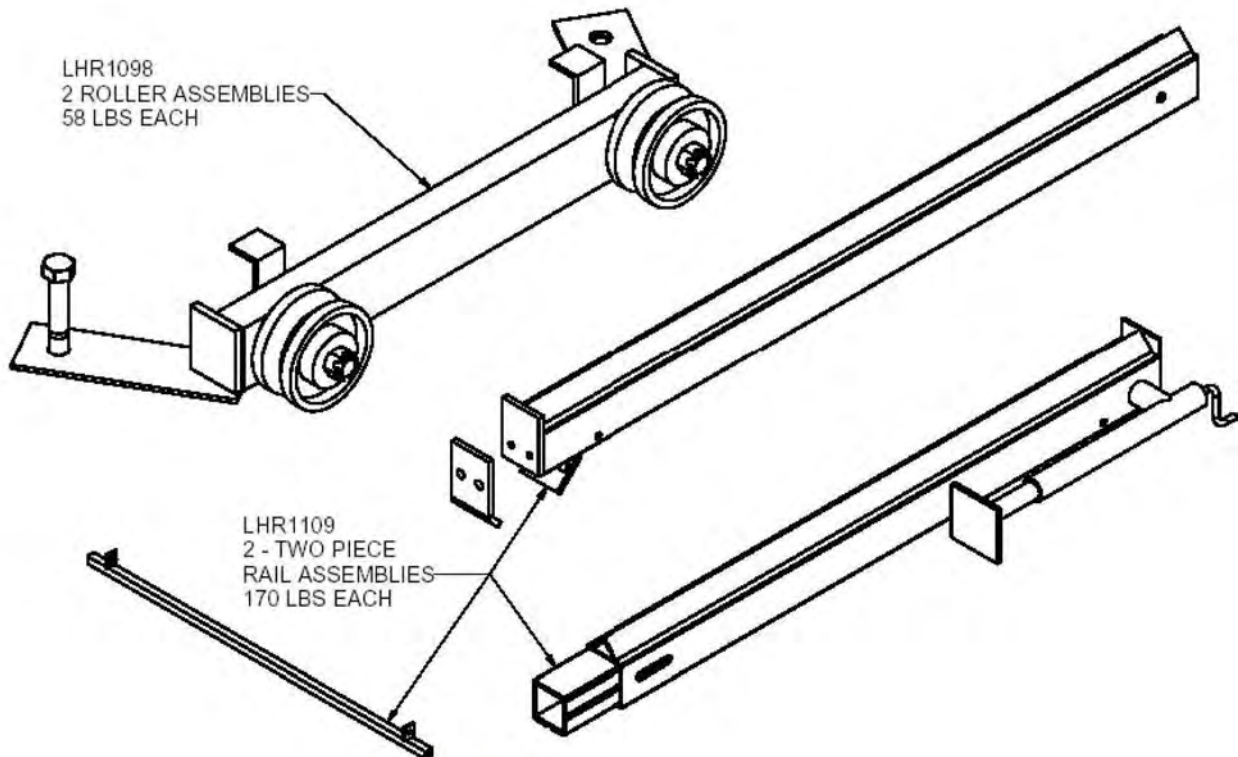
Note: Excessive force may shear the puller pin. It may be necessary to drive the pin with a hammer and punch while simultaneously pulling with the tool.

Instructions for Installing Lift Cylinder Top Pin Utilizing LHR1143 Tool Kit



1. Install lift cylinder and spacers in machine frame using the installation guide pin.
2. Place the thrust washer over the end of the guide pin on the side you'll be pulling from.
3. Place threaded rod through guide pin and outer tube assembly.
4. Screw lift cylinder top pin onto threaded rod.
5. Install washer and cotter pin on the end of the pin, as described in the illustration above.
6. Pull top lift cylinder pin into place using the hollow bore jack. (This will require at least two full stroke (6") pulls with the jack.)

LHR1099



LHR0890

Work Head Lift Cylinder Wrench
for use on Plasser 09-XX and 08-XX



Wrench can be used to tighten nut on end of lift cylinder that
mounts to work head.

LHR6257**Hydarulic Cylinder Torque Wrench
Kit for Plasser 09 and 08-32 Tampers**

PARTS LIST	
ITEM # & DESCRIPTION	PART #
1. 12 Point Bit to 14mm Allen Bit Adapter	LHR6186Mod
2. Torque Wrench Extension 14mm to ½ sq. drive	LHR6284
3. Torque Wrench	TQFR 250C
4. Torque Conversion Chart	

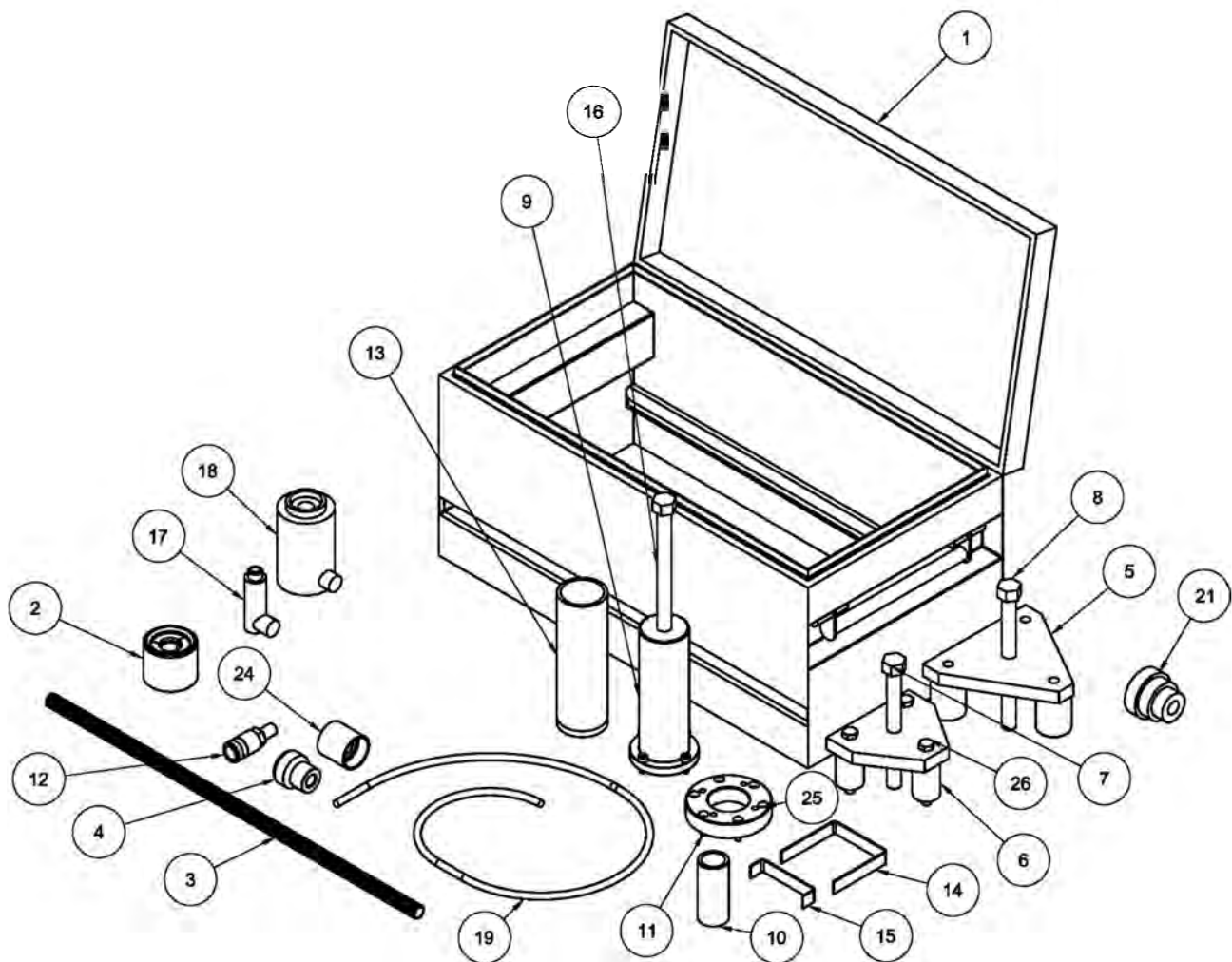
This Kit is designed to torque Plasser squeeze cylinder packing gland bolts while the cylinder is on the machine. It allows access to all bolt heads and the torque chart converts the readings so you get the correct amount of torque on the bolts.

LHR6340

Work Head Component Puller Kit for Plasser Tampers

DANGER

PULLING AND PRESSING EQUIPMENT CAN CAUSE INJURIES AND DEATH IF USED IMPROPERLY.
PRACTICE PROPER SAFETY PRECAUTIONS WHEN USING THIS EQUIPMENT.



PARTS LIST			
ITEM # & DESCRIPTION	QTY		PART #
1. Tool Box	Qty. 1		LHP0009
2a. Slip Bowl	Qty. 1		LHM6174
2b. 1" Puller Slip	Qty. 1		LHM6171
3. 1" Puller Bolt	Qty. 1		LHR6189
4. Flyer Wheel Press	Qty. 1		LHR6187
5. Flyer Wheel Puller 0923	Qty. 1		LHR6195-001
6. Flyer Wheel Puller 0916	Qty. 1		LHR6196-001
7. Puller Bolt	Qty. 1		LHR6197
8. Puller Bolt	Qty. 1		LHR6198
9. Bearing Puller	Qty. 1		LHR6199-001
10. Arm/Seal Installation Tool	Qty. 1		LHR6238
11. Fly Wheel Puller Adaptor	Qty. 1		LHR6242-001
12. Pin Puller Tool	Qty. 1		LHR6243
13. Puller Sleeve	Qty. 1		LHR6293
14. Sleeve Plate Keeper (Long)	Qty. 1		LHR6294
15. Sleeve Plate Keeper (Short)	Qty. 1		LHR6295
16. Puller Bolt	Qty. 1		LHR6296
17. Hydraulic Cylinder (5 Ton Stroke)	Qty. 1		LHP0002
18. Hydraulic Cylinder (Single Action)	Qty. 1		LHP0003
19. Hydraulic Hose 10'	Qty. 1		LHP0005
20. Hydraulic Pump	Qty. 1	N/S	LHP0004
21. Puller Sleeve Alignment Tool	Qty. 1		LHR6297
22. Female Coupler End	Qty. 1	N/S	LHP0007
23. Male/Female Quick Connect	Qty. 1	N/S	LHP0006
24. Motor FlyWheel Installation Tool	Qty. 1		LHR6251
25. 10mm SHCS	Qty. 10		M10x25
26. 16mm Hex Bolts	Qty. 3		M16x120
27. Retaining Ring Pliers	Qty. 1	N/S	LHP0019
28. Pin Driver (Short)	Qty. 1		LHR6355
29. Pin Driver (Long)	Qty. 1		LHR6354
30. 12 Point Drive Socket	Qty. 1	N/S	LHR6186

N/S = NOT SHOWN



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PLASSER 09XX PULLER KIT	
PART #: LHR6340 DWG.	SHEET: 1 OF 6
#: LHR6234-L3	REV. #: 000

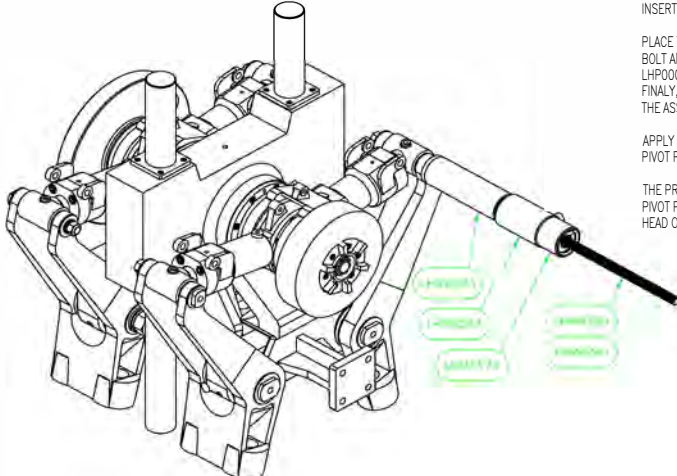
PIVOT PIN REMOVAL

INSTALL LHR6243 INTO PIVOT PIN
INSERT LHM6189 INTO LHR6243

PLACE THE SMALL OPENING OF LHR6293 OVER PULLER BOLT AND AGAINST PIVOT ARM, SLIDE HYDRAULIC RAM LHP0003 OVER PULLER BOLT AND AGAINST LHR6293. FINALLY, APPLY LHM6174 OVER THE PULLER BOLT TO LOCK THE ASSEMBLY IN PLACE.

APPLY HYDRAULIC PRESSURE TO LHP0003 AND REMOVE PIVOT PIN.

THE PROCEDURE IS THE SAME FOR LARGE AND SMALL PIVOT PINS, EXCEPT LHR6293 IS INVERTED TO CLEAR THE HEAD OF THE LARGE PIVOT PIN.



DANGER
PULLING AND PRESSING EQUIPMENT CAN CAUSE INJURIES AND DEATH IF USED IMPROPERLY. PRACTICE PROPER SAFETY PRECAUTIONS WHEN USING THIS EQUIPMENT.



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PLASSER 09XX PULLER KIT	
PART #: LHR6340 DWG. #	SHEET: 2 OF 6
LHR6234-L3	REV. #: 000

MOTOR SIDE FLYWHEEL REMOVAL

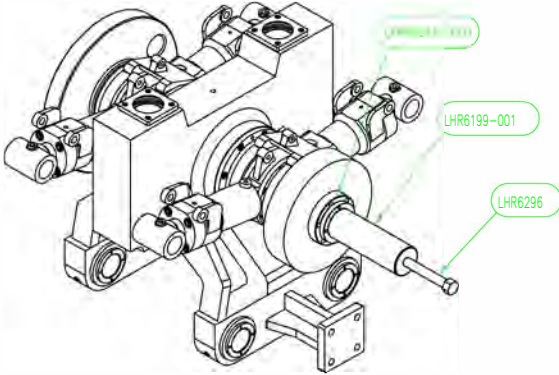
CAUTION, PROVIDE ADEQUATE SUPPORT OF THE FLYWHEEL OR INJURY MAY OCCUR.

REMOVE MOTOR COUPLER, SHAFT COTTER PIN, NUT, AND WASHER.

MOUNT LHR6242-001 TO FLYWHEEL

INSTALL LHR6199-001 TO LHR6242-001

ADVANCE PULLER BOLT LHR6296 AS REQUIRED TO REMOVE FLYWHEEL



DANGER
PULLING AND PRESSING EQUIPMENT CAN CAUSE INJURIES AND DEATH IF USED IMPROPERLY. PRACTICE PROPER SAFETY PRECAUTIONS WHEN USING THIS EQUIPMENT.



PLASSER 09XX PULLER KIT

PART #: LHR6340 DWG. #:	SHEET: 3 OF 6
LHR6234-L3	REV. #: 000

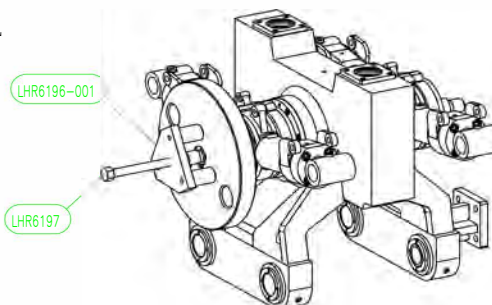
FLYWHEEL REMOVAL

CAUTION, PROVIDE ADE QUITE SUPPORT OF THE FLYWHEEL
OR INJURY MAY OCCUR.

REMOVE SHAFT COTTER PIN, NUT, AND WASHER.

MOUNT LHR6196-001 TO FLYWHEEL

ADVANCE PULLER BOLT LHR6197 AS REQUIRED TO REMOVE
FLYWHEEL



DANGER

PULLING AND PRESSING EQUIPMENT CAN CAUSE INJURIES AND DEATH IF USED IMPROPERLY. PRACTICE PROPER SAFETY
PRECAUTIONS WHEN USING THIS EQUIPMENT.



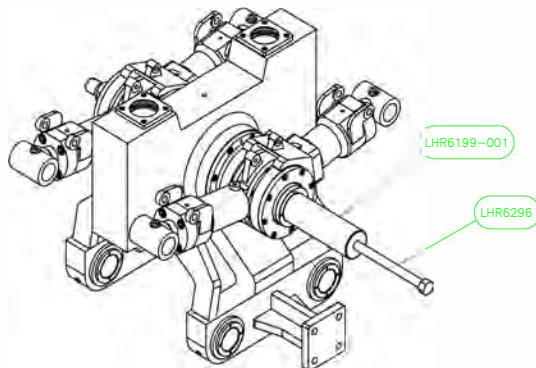
PLASSER 09XX PULLER KIT

PART #: LHR6340	SHEET: 4 OF 6
DWG. #: LHR6234-L3	REV. #: 000

BEARING FLANGE (LHR6117) REMOVAL

INSTAL LHR6199-001 TO LHR6117

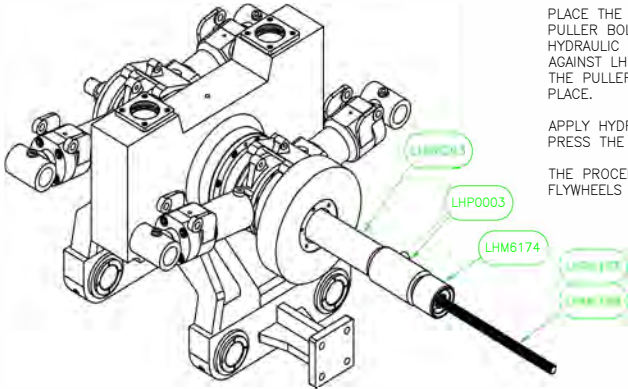
ADVANCE PULLER BOLT LHR6296 AS
REQUIRED TO REMOVE FLANGE



DANGER

PULLING AND PRESSING EQUIPMENT CAN CAUSE INJURIES AND DEATH IF USED IMPROPERLY.
PRACTICE PROPER SAFETY PRECAUTIONS WHEN USING THIS EQUIPMENT.

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	PART #: LHR6340	SHEET: 5 OF 6
	DWG. #: LHR6234-L3	REV. #: 000



FLYWHEEL INSTALATION

INSTALL LHR6187 ON TO SHAFT
INSERT LHM6189 INTO LHR6187

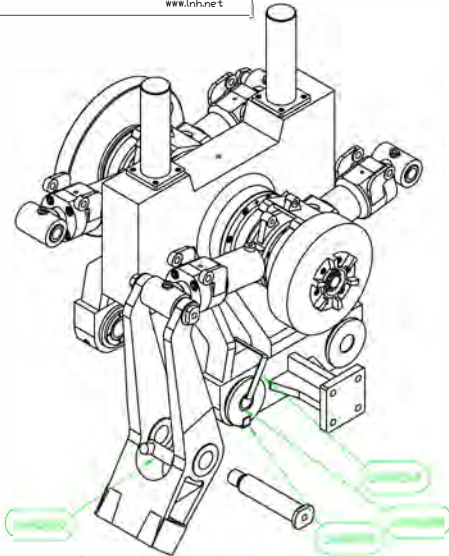
PLACE THE LARGE OPENING OF LHR6293 OVER PULLER BOLT AND AGAINST THE FLYWHEEL, SLIDE HYDRAULIC RAM LHP0003 OVER PULLER BOLT AND AGAINST LHR6293. FINALLY, APPLY LHM6174 OVER THE PULLER BOLT TO LOCK THE ASSEMBLY IN PLACE.

APPLY HYDRAULIC PRESSURE TO LHP0003 AND PRESS THE FLYWHEEL IN PLACE.

THE PROCEDURE IS THE SAME FOR BOTH FLYWHEELS

DANGER
PULLING AND PRESSING EQUIPMENT CAN CAUSE INJURIES AND DEATH IF USED IMPROPERLY.
PRACTICE PROPER SAFETY PRECAUTIONS WHEN USING THIS EQUIPMENT.

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	PART #: LHR6340	SHEET: 6 OF 6
	DWG. #: LHR6234-L3	REV. #: 000



ARM INSTALATION

PLACE LHR6238 IN THE BORE OF THE BUSHINGS.

INSTAL SEAL COVERS OVER SEALS AND CLAMP THEM IN PLACE WITH LHR6294, LHR6295 AS SHOWN.

SPREAD TAMPING ARM AS REQUIRED WITH LHP0002.

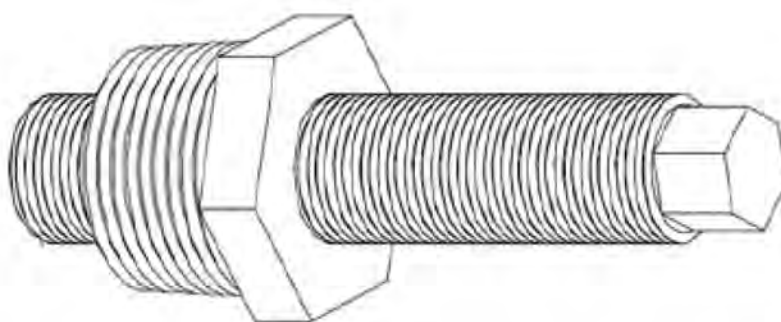
SWING TAMPING ARM INTO PLACE OVER SEAL COVERS. LHR6294 AND LHR6295 WILL BE PUSHED OUT OF THE WAY AS THE ARM IS INSTALED.

WHEN THE ARM IS IN THE PROPER POSITION, INSERT PIVOT PIN THROUGH THE PIVOT BORE, LHR6238 WILL BE FORCED OUT AT THIS TIME.

DANGER
PULLING AND PRESSING EQUIPMENT CAN CAUSE INJURIES AND DEATH IF USED IMPROPERLY.
PRACTICE PROPER SAFETY PRECAUTIONS WHEN USING THIS EQUIPMENT.

LHR6348

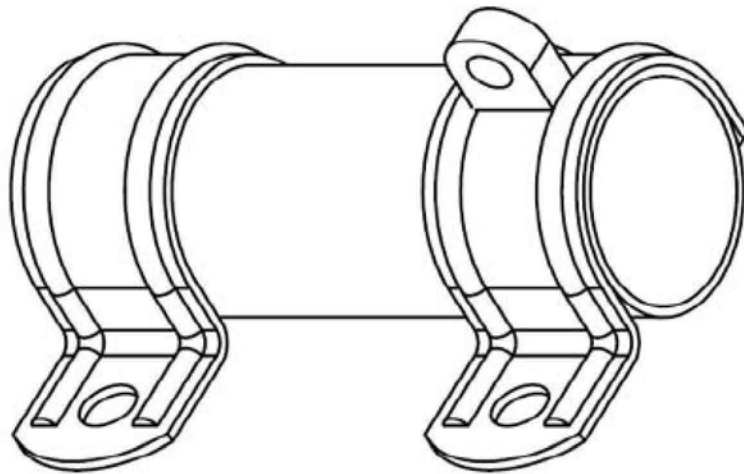
Parking Brake Air Chamber Caging Tool Assembly



This device is designed to capture the internal spring in a spring applied/air release parking brake air chamber on Pettibone 441,442,445 & 360 machine, as well as the Swingmaster 181 machines. This device allows the worker to safely cage the internal spring in the brake chamber for performing park brake maintenance.

LHR6352

Break Tool Holder



Note: The above noted part is a holder for LHR6348 that is shown on the previous page. It must be ordered individually.

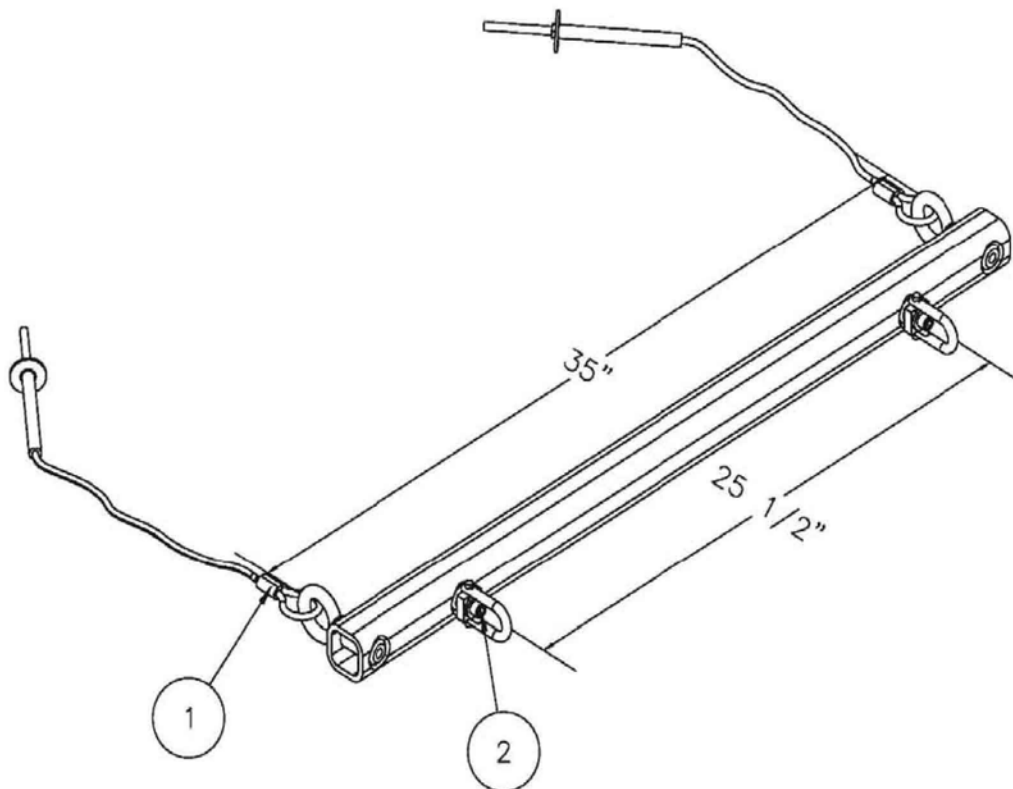
LHR0754-001

Wheel Gauge Tool



This wheel gage is designed to be a go no-go gage for checking wheel gage on Roadway Maintenance of Way equipment. This tool will allow a person to verify if the wheels are within allowable tolerances for use on standard 56 1/2" rail gage.



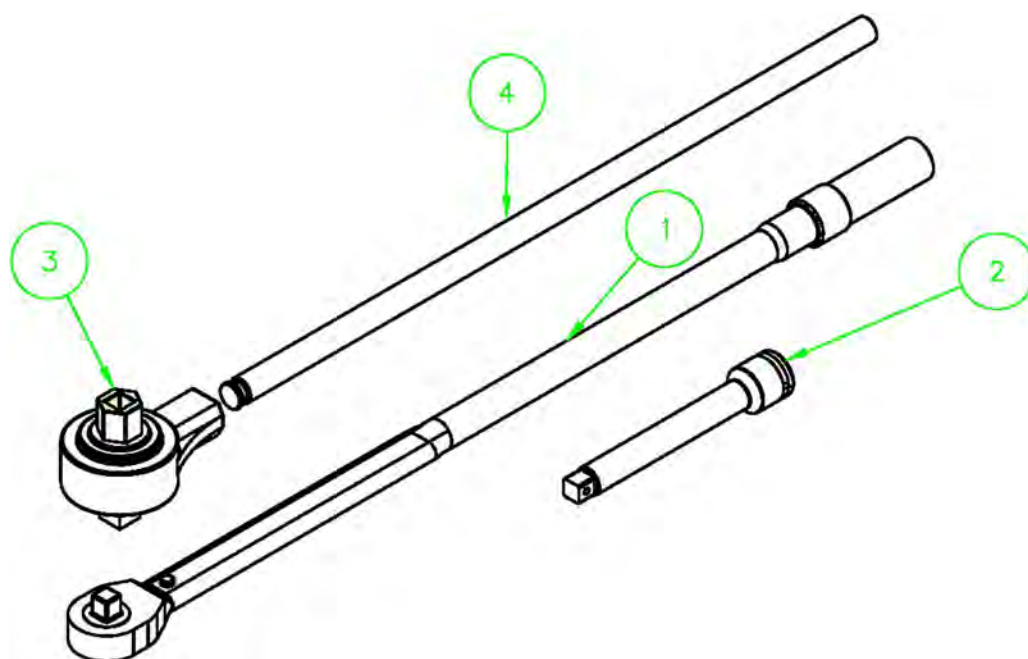
LHR0757**Ballast Deflector Baffle Installation and Removal Tool**

Parts List		
Description & Item #	Quantity	Part #
1. Cable Assembly	Qty. 2	LHP4403
2. Lifting Eye	Qty. 2	LHP4404

This tool can be used on a Plasser, Fairmont Tamper, and Kershaw Broom to remove and install baffles with the use of a crane or hoist.

LHR0780

Torque Tool Multiplier Kit



Item	Part Number	Description	Replaces
1	LHP0311	TORQUE WRENCH	6020AB
2	LHP0314	10" EXTENSION	07568
3	LHP0388	TORQUE MULTIPLIER, 3/4" DR.	HT3
4	LHR0782	REACTION BAR, 21"	

LHR0780

Torque Tool Multiplier Kit



Use our torque tool kit to ensure the proper axel nut torque requirement is being applied to rail wheels on Roadway Machines. In this tool torque kit you will find a Proto $\frac{3}{4}$ " square drive ratcheting torque wrench, Norbar torque multiplier that includes an offset reaction bar, a short-straight reaction bar, a $\frac{3}{4}$ " square drive by 10" long extension, and a $\frac{3}{4}$ " drive by 21" straight reaction bar. The torque wrench has a ratcheting head style that is adjustable from 90 to 600 ft-lbs. and is approximately 42" long. The Norbar torque multiplier has a 5:1 gear reduction ratio with a $\frac{3}{4}$ " IN and 1" OUT (square drive), and is rated at 200 ft-lbs. minimal output and 2,000 ft-lbs. maximum output.

LHR0778-001

Torque Multiplier Tool Kit



PARTS LIST	
L&H /PN	DESCRIPTION
LHR0782	REACTION BAR
LHP5109	JOB TOOL BOX
LHP0311	TORQUE WRENCH
LHP0314	10" EXTENSION
LHP15370	DRIVE ADAPTER
LHP0388	TORQUE MULTIPLIER
LHP0312	3-7/8" DEEP WELL 1-1/2" DRIVE
LHP0313	4-1/4" DEEP WELL 1-1/2" DRIVE
LHP0394	2-3/8" DEEP WELL 1" DRIVE
LHP0395	3" DEEP WELL 1" DRIVE
LHP0396	2-3/4" DEEP WELL 1" DRIVE
LHP0397	2-1/4" DEEP WELL 1" DRIVE
LHP0398	2-11/16" DEEP WELL 1" DRIVE
LHP0399	2-3/16" DEEP WELL 3/4" DRIVE
LHR1184	1-7/16 11" LONG 1/2" DRIVE
LHR1360	PLASTIC BOTTOM
LHR0780	MULTIPLIER KIT
LHR0778-001	COMPLETE TOOL KIT

THIS KIT WAS DESIGNED TO BE ABLE TO MEET THE RAILROAD AND MANUFACTURERS WHEEL TORQUE REQUIRMENTS FOR ROADWAY EQUIPMENT.

HEAVY DUTY PROTO 600LB. FACTORY CALIBRATED TORQUE WRENCH.

HEAVY DUTY 2000LB. 5 TO 1 RATIO TORQUE MULTIPLIER ³/₄ IN. INPUT 1 IN. OUTPUT.

ALL TOOLS ARE MANUFACTURED TO MEET THE HIGH TORQUE RATIO'S REQUIRED BY SOME MANUFACTURERS.

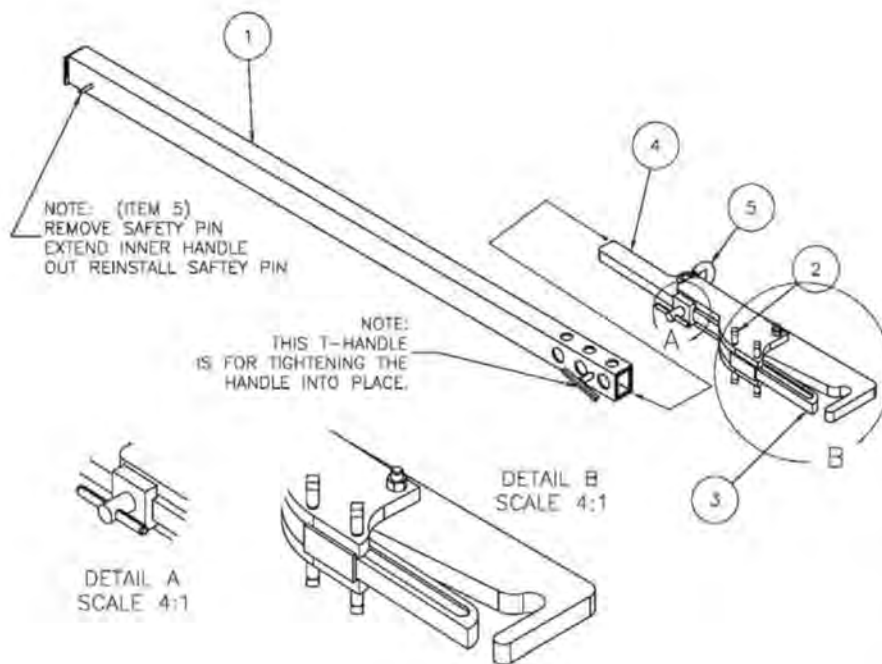
9 EA. HEAVY DUTY IMPACT SOCKETS FROM 17/16 TO 41/4 DEEPWELL FOR EXTERNAL DRIVE AXLE'S.

HEAVY DUTY TOOL BOXES FOR PROTECTION AND STORAGE.

THIS KIT WAS DESIGNED FOR SHOP FACILITIES AND FIELD TOOL CARS.

LHR0992

Wheel Handling Tool for Flanged Work Equipment Wheels



Flanged Wheel

PARTS LIST		
ITEM # & DESCRIPTION	QTY	PART #
1. Main Handle	Qty. 1	LHR0991
2. Latch Arm	Qty. 1	LHR0988
3. Slide Lock	Qty. 1	LHR0989
4. Head	Qty. 1	LHR0990
5. Screw Pin Anchor Shackle	Qty. 1	LHP4406

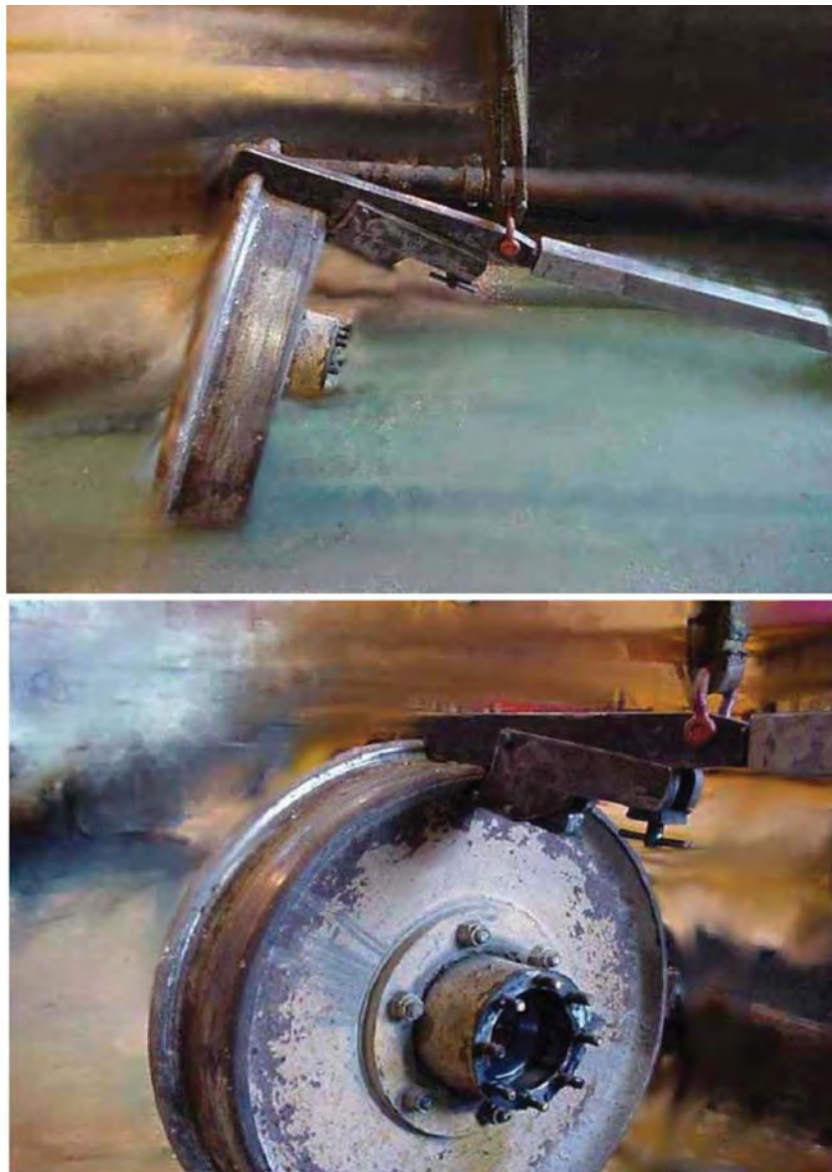
Detail A- Adjustment for wheel thread/rim thickness

Detail B- For depth of engagement on flanged rail wheel

This tool is used to safely handle railroad wheels. Tool needs to be properly set to each size of wheel. Adjust “detail A” for tread/rim thickness and “detail B” for depth of engagement. Unit can be moved by attaching hoist to shackle (5).

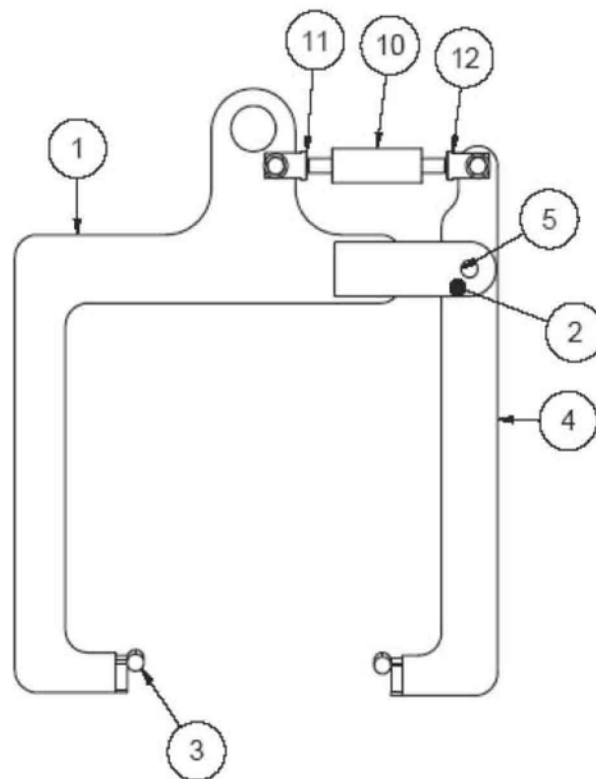
LHR0992

Wheel Handling Tool for Flanged Work Equipment Wheels



LHR1150

Wheel Lifting Clamp



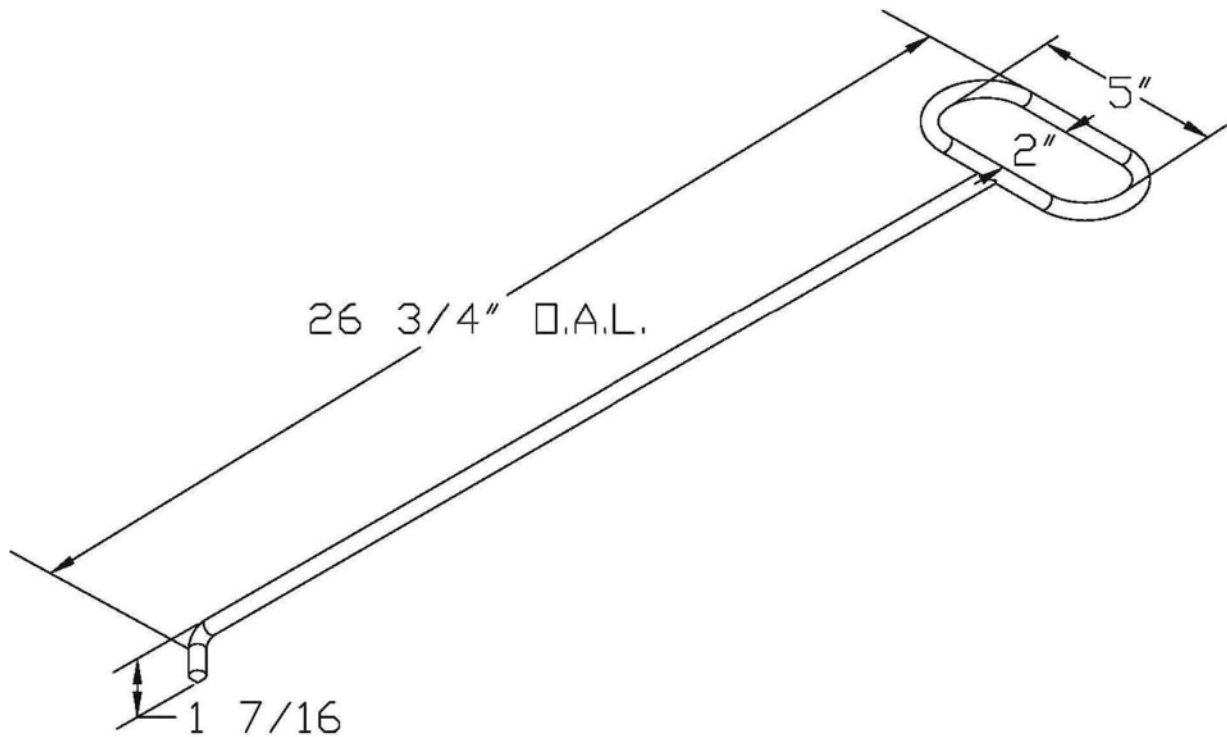
LHR1150 PARTS LIST		
ITEM # & DESCRIPTION	QTY	PART #
1. Main Plate	Qty. 1	LHR1150A
2. Side Arm	Qty. 1	LHR1150D
3. 3/4" Pin	Qty. 1	LHR1150E
4. 1/2" Flat Washer	Qty. 2	FWFLAT .50
5. 1/2" X 2 UNC Bolt	Qty. 2	FB.50 X 2.0
6. 1/2" Lock Washer	Qty. 2	FWLOCK .50
7. 1/2" UNC Nut	Qty. 2	FNUT HEX. 50-13
8. Turnbuckle	Qty. 1	LHR1150F
9. Yoke Left Thread	Qty. 1	LHR1150G
10. Yoke Right Thread	Qty. 1	LHR1150H

LHR1150 Wheel Lifting Clamp



LHR6080

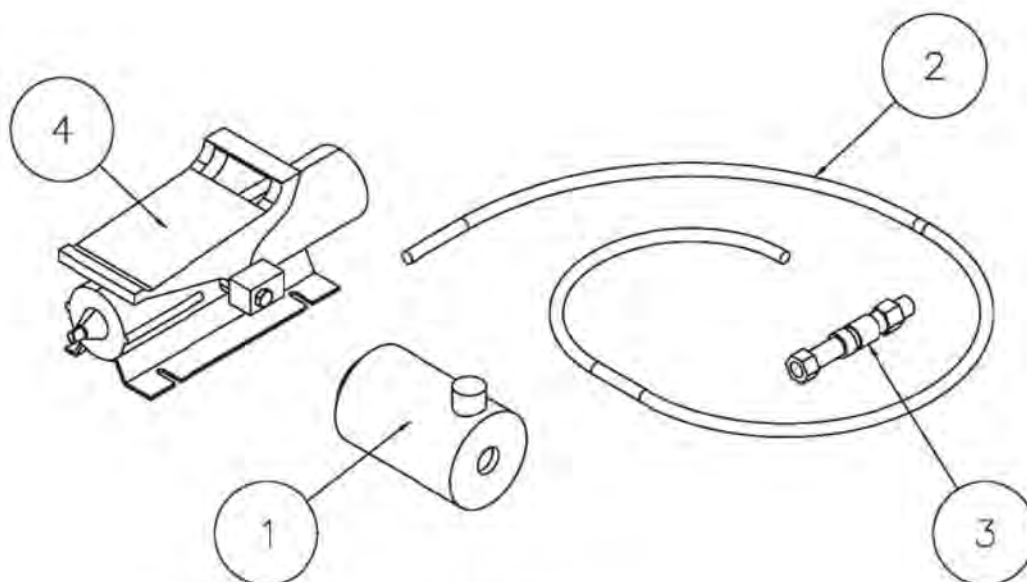
Spike Hook



Use on automatic spike driving machines to remove stuck or bent spikes without leaving the machine. Can also be used to handle tie plates and turn tables.

LHR6362

Hydraulic Pack



PARTS LIST

ITEM # & DESCRIPTION	QTY	PART #
1. Hollow Bore Hydraulic Jack (3" Stroke with 1 3/64" Bore)	Qty. 1	LHP0003
2. Hose 10 foot	Qty. 1	LHP0005
3. Male/Female Quick Connect	Qty. 1	LHP0006
4. Hydraulic Pump	Qty. 1	LHP0004

This is an air powered hydraulic power pack that has multiple uses in removing and installing different parts.

LHR1310-001

Rail Puller



Specifications:

1. Actual pulling capacity of Rail Puller is 45,120 pounds. Which is equivalent to 1600 feet of 141 pound rail times a coefficient of friction of 0.6.
2. Puller dimensions 7" x 10" x 3" weight: 25 lbs
3. Puller must be used with the provided shackle.
4. Intended to be used on 115 lb thru 141 lb rail.

LHR1026 & LHR1027

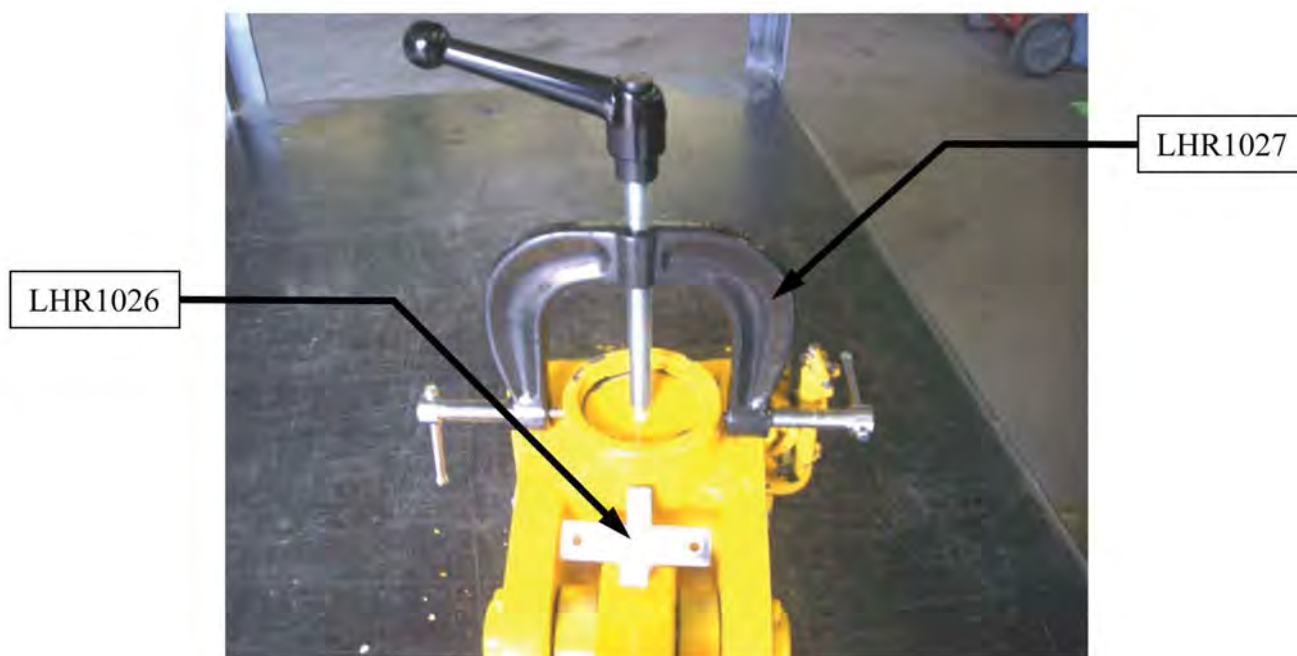
Birminghamhammer Pile Driver Lock Pin Inspection Tools

LHR1026 - Birminghamhammer pin inspection gauge

(Used to identify condition of radius and wear on lock pin)

LHR1027 - Birminghamhammer pin removal tool

(Used to compress spring loaded pin so retaining ring can be removed. End user must drill small dimples into pin housing for sharp points to rest in.)



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52

LHR0733

Nordco Model C & CX Spiker

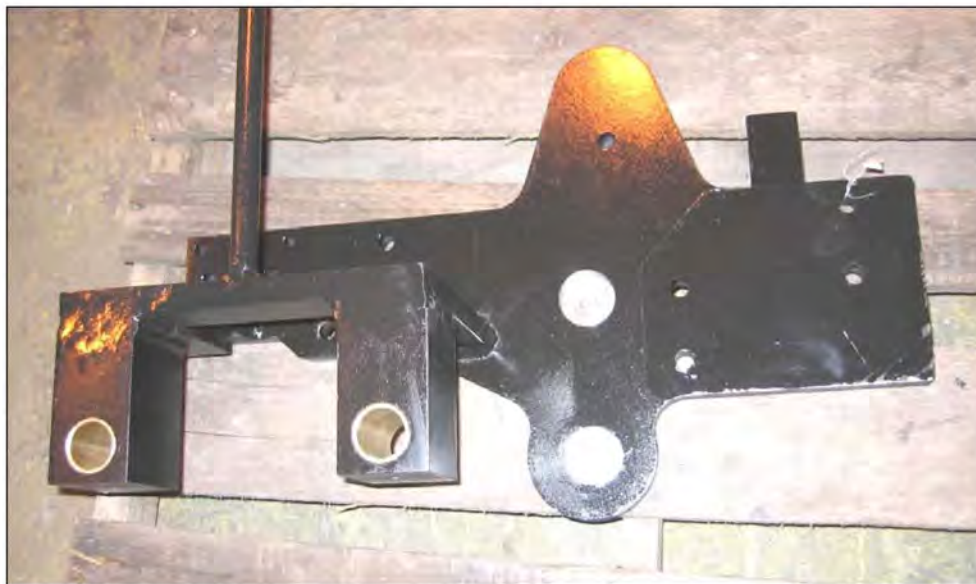
Spike Driving Carriage Assembly Maintenance Tool Group for Removing & Installing Guide Rod Bushings located in the Gun Carriage Lower Workhead Plate.

Note – This tool group applies to Nordco Guide Rod Bushings identified under the following part no's.

2115231 – Standard Bronze Bushing

22034755 – Heavy Duty Bronze Bushing

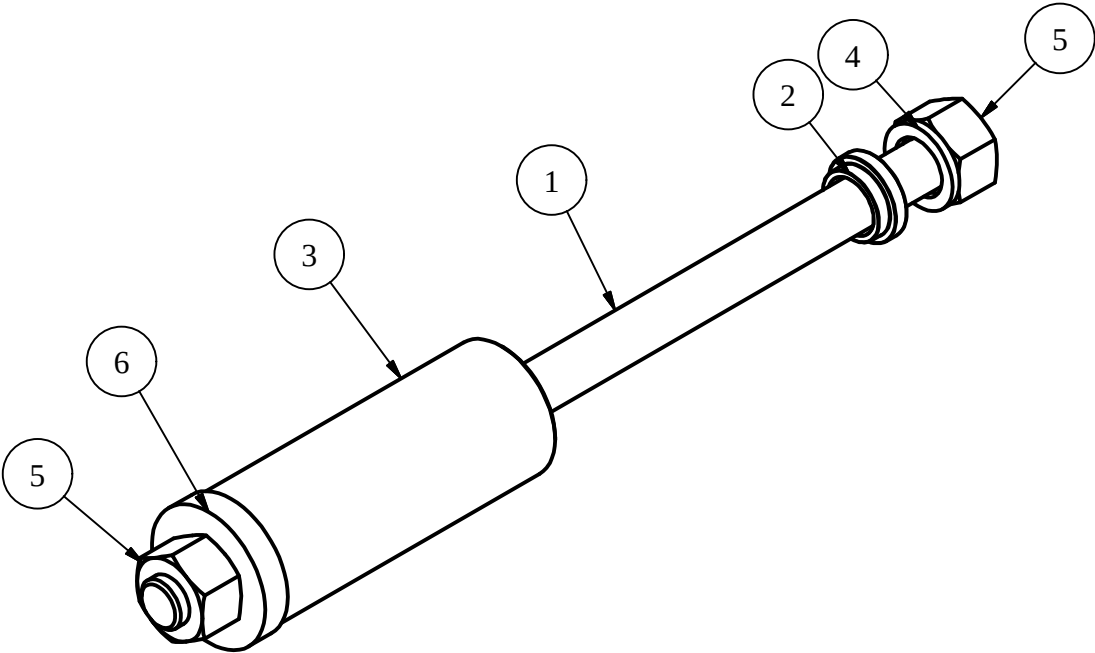
22115232 – Chrome bushing



LHR0733

Norco Model C & CX Spiker

L&H Kit LHR0733 – Guide Bushing Removal & Installation Tool, designed to either remove or install a Nordco Guide Rod Bushing using a Ratchet & Socket or an Impact Wrench. This tool group uses a 7/8” – 18” threaded puller rod and with a stepped or shouldered pushing adapter that positively engages with the guide rod bushing. Also included is an oversized sleeve that will allow the bushing that is being removed, to be pulled through the bore, and into the steel sleeve. When removing the bushing, the stepped adapter must pass through the lower plate bushing bore.



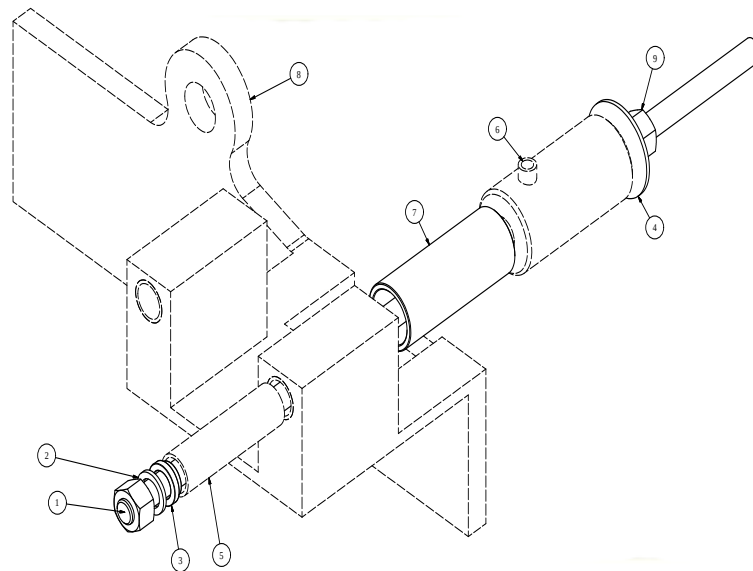
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHR0737	THREADED ROD 7/8-9UNC - 18" LONG
2	1	LHR0736	CAP
3	1	LHR0735	SLEEVE
4	1	LHR0756	HARDENED WASHER
5	2	LHP5375	NUT, HEX (7/8)
6	1	LHR0734	BASE

LHR0733

Norco Model C & CX Spiker

L&H Kit **LHR1180** – Guide Bushing Removal & Installation Tool, designed to simultaneously remove and install a guide rod bushing in the lower plate assembly. This tool group uses a Hollow Bore “Porta-Power” Cylinder (not part of kit) that includes 7/8” X 36” threaded puller rod with a stepped or shouldered pushing adapter that positively engages with the guide rod bushing. Also included is an oversized sleeve that will allow the bushing that is being removed, to be pulled through the bore, and into the over-sized steel sleeve.

When using this tool group, the new bushing is stacked on top of the old bushing and when the port-power is engaged the new bushing forces the old bushing out of its bore, while simultaneously pressing the new bushing. In this process the stepped adapter will not pass through the bushing bore, since the new bushing is pushing the old bushing out of its bore.



Rev. #	Description of Change
1	Item 1 & 7 Increased in Length to be able to install and remove longer bushings.

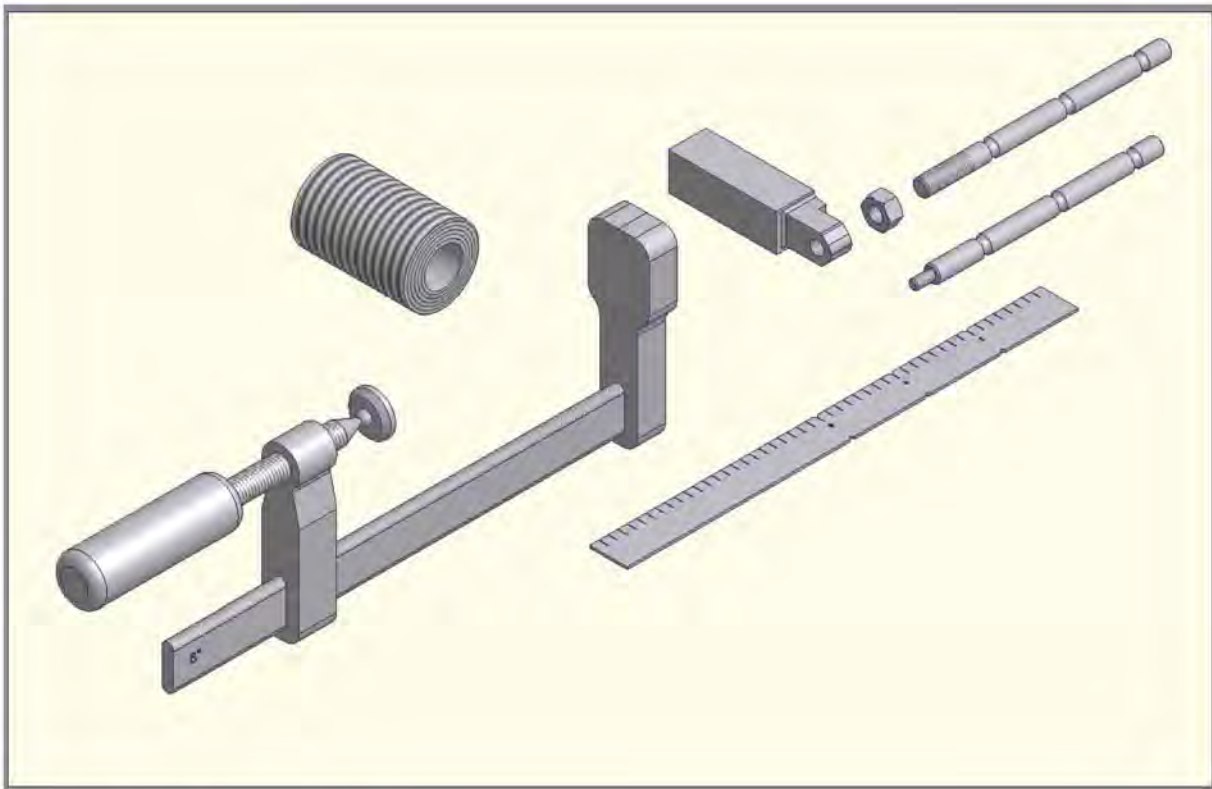
The Guide Rod Bushing Puller & Installation Tool Group consists of all the necessary special parts to easily remove or install the Guide Rod Bushings in the Nordco model C and CX spikers

****NOTE** – Prior to actual bushing installation, make certain that the hole in the bushing is aligned with the grease zerk hole in bore of the lower plate assembly.

MAX LOAD: 10 TON

LHR1116

Boom Stringline Clamp



L&H Kit **LHR1116** - Includes:

- Qty 2 - LHR1105A – Base Rod
- Qty 2 - LHR1105B – Magnetic Base
- Qty 2 - LHR1105C – Extension Rod
- Qty 1 - LHP6024 – 250' String
- Qty 1 - LHR1119 – Notched 12" Scale
- Qty 2 - LHP6026 – 8" F-Clamp
- Qty 2 - 7/16"-UNF Hex Nut



SECTION 2

Any Machine

02



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DANGER LIVE TRACK SIGN

PART# **LHR1107**

SHEET 1 OF 3

FILE ID: LHR1107.idw

REV 1

DRAWN BY: bkase

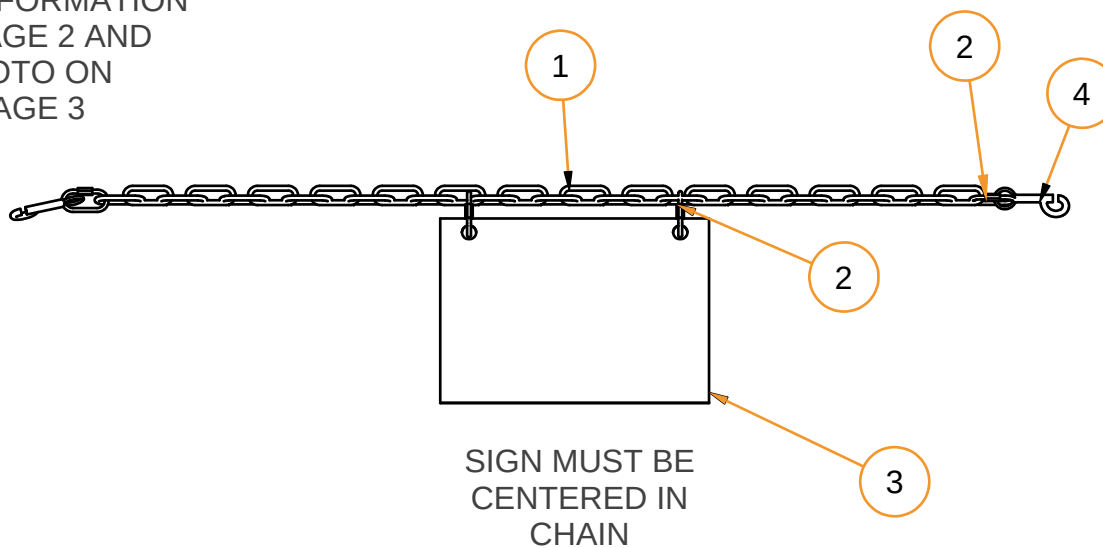
DATE 1/28/2004

REPLACES:

Parts List

ITEM	PART NUMBER	DESCRIPTION	QTY
1	LHR1152	CHAIN 48" LONG	1
2	LHR1154	QUICK LINKS	4
3	LHR1160-001	VINYL BANNER	1
4	LHR1155	FIXED EYE QUICK SNAPS	2

NOTE:
SIGN INFORMATION
ON PAGE 2 AND
PHOTO ON
PAGE 3



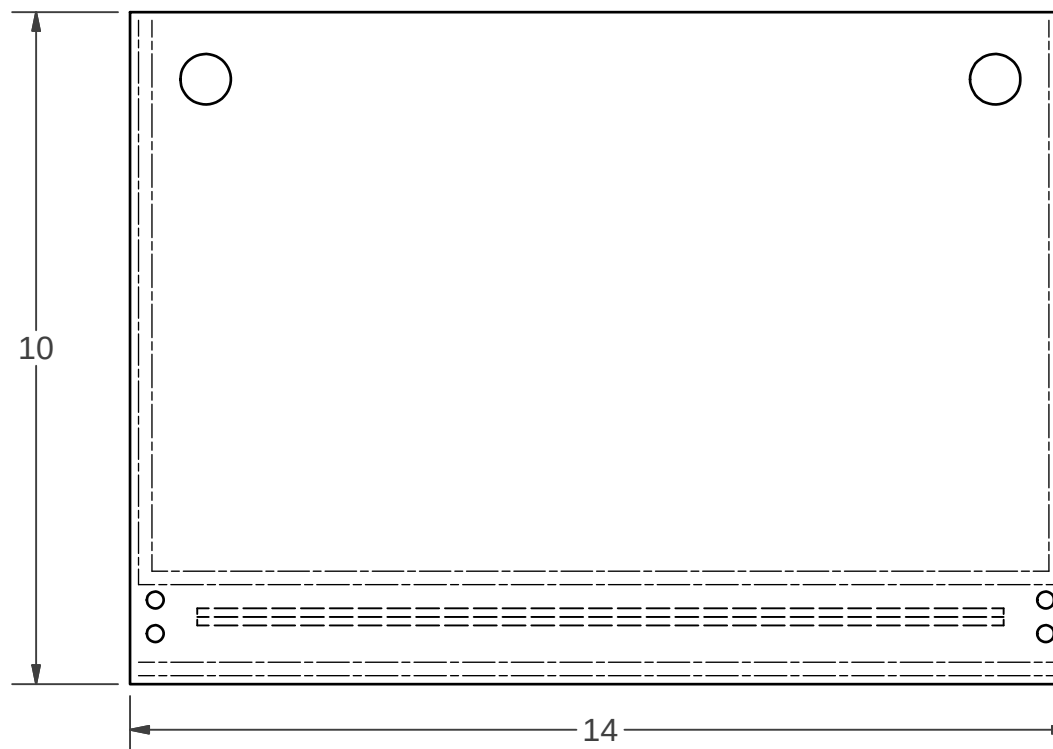


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DANGER LIVE TRACK SIGN

PART# LHR1160-001	SHEET 2 OF 3
FILE ID: LHR1107.idw	REV 1
DRAWN BY: bkase	DATE 1/28/2004
REPLACES:	





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DANGER LIVE TRACK SIGN

PART# LHR1160-001	SHEET 3 OF 3
FILE ID: LHR1107.idw	REV 1
DRAWN BY: bkase	DATE 1/28/2004
REPLACES:	





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LIVE TRACK WARNING SIGN

PART# **LHR1108-001**

SHEET 1 OF 1

FILE ID: LHR1108.idw

REV

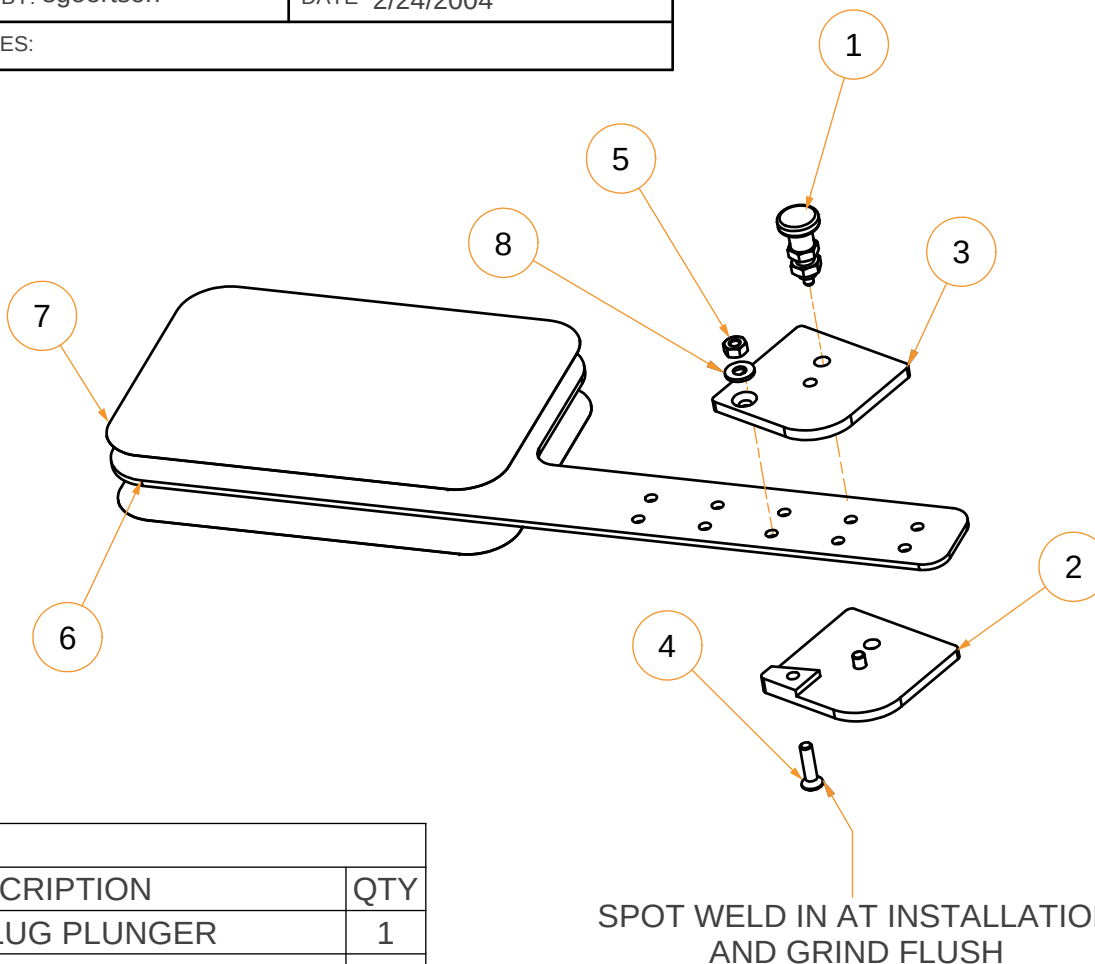
DRAWN BY: sgeertson

DATE 2/24/2004

REPLACES:



DECAL SIGN



SPOT WELD IN AT INSTALLATION
AND GRIND FLUSH

Parts List

ITEM	PART NUMBER	DESCRIPTION	QTY
1	LHP5194	STEEL INDEX PLUG PLUNGER	1
2	LHR1122	BACK PLATE	1
3	LHR1123	FRONT PLATE	1
4	F SHFCS .25-20-1.0	SOCKET HEAD CAP SCREW 1/4-20X1"	1
5	F NUT NYLOC .25-20	NYLOCK NUT 1/4"-20	1
6	LHR1156	FLAG ARM TYPE DANGER SIGN	1
7	LHR1159	DANGER SIGN DECAL	2
8	F W WASHER .25	FLAT WASHER 1/4"	1



INDUSTRIAL

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BNSF SPLIT COLLAR CLAMPS

PART #: SEE BELOW

SHEET: 1 OF 1

DWG. #: SPLITCOLLAR

REV. #: 000

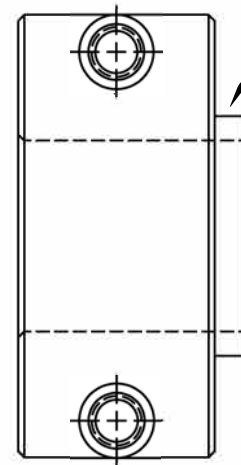
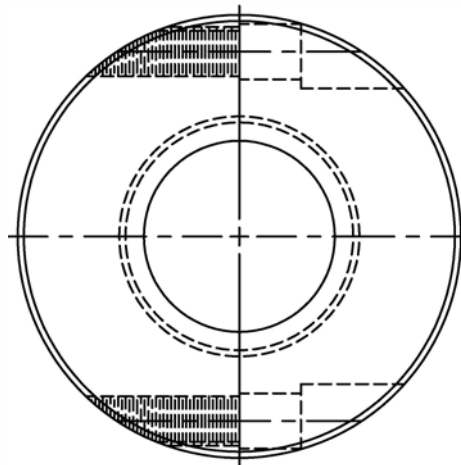
DRAWN BY: TCW

DATE: 1999/03/23

REPLACES:

PART #	APPLICATION
LHR0451	RACINE ANCHOR REMOVER AXLE
LHR0452	FAIRMONT TAMPER SPIKE RECLAIMER AXLE
LHR0453	FAIRMONT TAMPER TIE PLUGGER AXLE
LHR0454	KERSHAW CRIBBER-ADZER AXLE
LHR0455	TELEWELD WELD HEATER AXLE
LHR0456	TELEWELD RAIL HEATER TRAILER AXLE
LHR0457	FAIRMONT TAMPER ANCHOR BOXER AXLE
LHR0458	W AR W AGON AXLE
LHR0459	FAIRMONT TAMPER SPIKE PULLER AXLE

SUPPLY WITH (2) 1/2"-13UNC
X 2" LONG ALLEN HEAD BOLTS



NOTE, ALL CLAMPS
WILL HAVE THIS
SHOULDER EXCEPT
LHR0459



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TAMPER BALLAST REGULATOR RAIL SWEEP

PART #: LHR0188

SHEET: 1 OF 1

DWG. #: LHR188

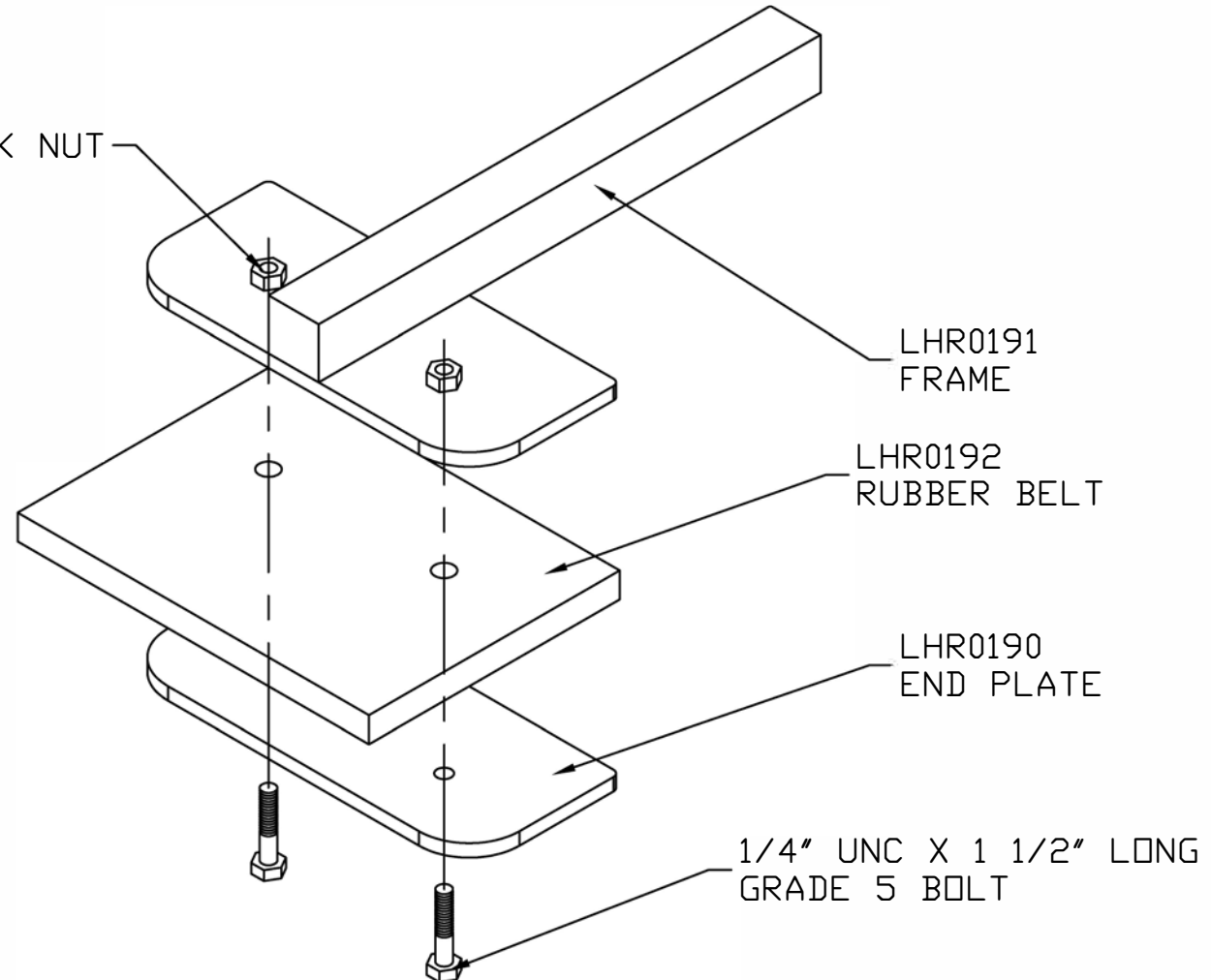
REV. #: 000

DRAWN BY: TA

DATE: 2/25/1998

REPLACES: -

1/4" UNC NYLOCK NUT



LHR0191
FRAME

LHR0192
RUBBER BELT

LHR0190
END PLATE

1/4" UNC X 1 1/2" LONG
GRADE 5 BOLT



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ELEVATED TRANSFER TRACK W/O FENCE

PART# **LHR1311-001** SHEET 1 OF 1

FILE ID: LHR1311-001.idw REV 1

DRAWN BY: DVANSICKLE DATE 7/23/2015

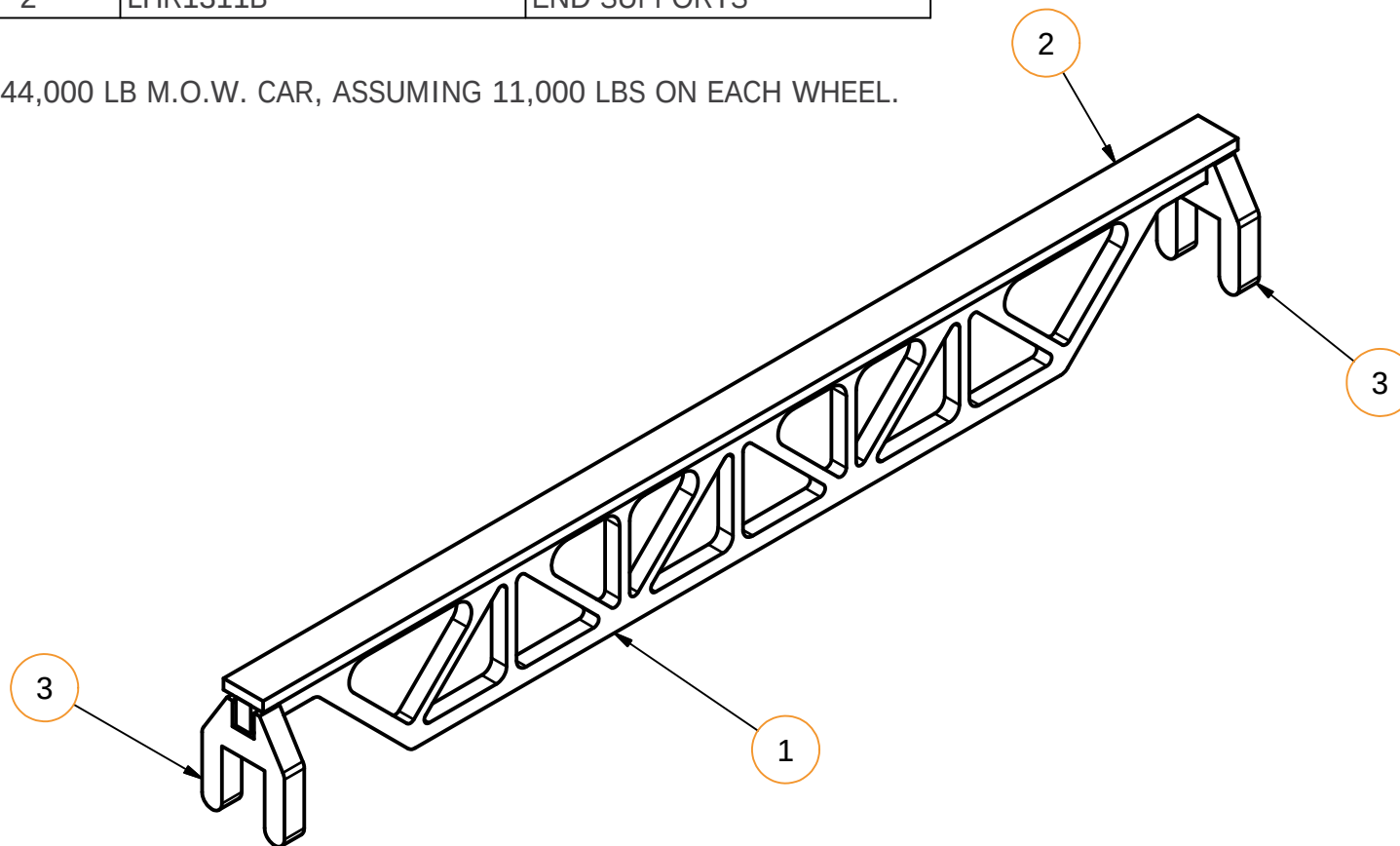
REPLACES:

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHR1311A	TRUSS
2	1	LHR1311T	TOP PLATE
3	2	LHR1311B	END SUPPORTS

NOTES:

1) DESIGN BASED ON 44,000 LB M.O.W. CAR, ASSUMING 11,000 LBS ON EACH WHEEL.



REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
1	REDRAWIN & DATA UPDATE	7/23/2015	DAV



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TOW BAR HITCH PIN

PART #: LHR0284

SHEET: 1 OF 1

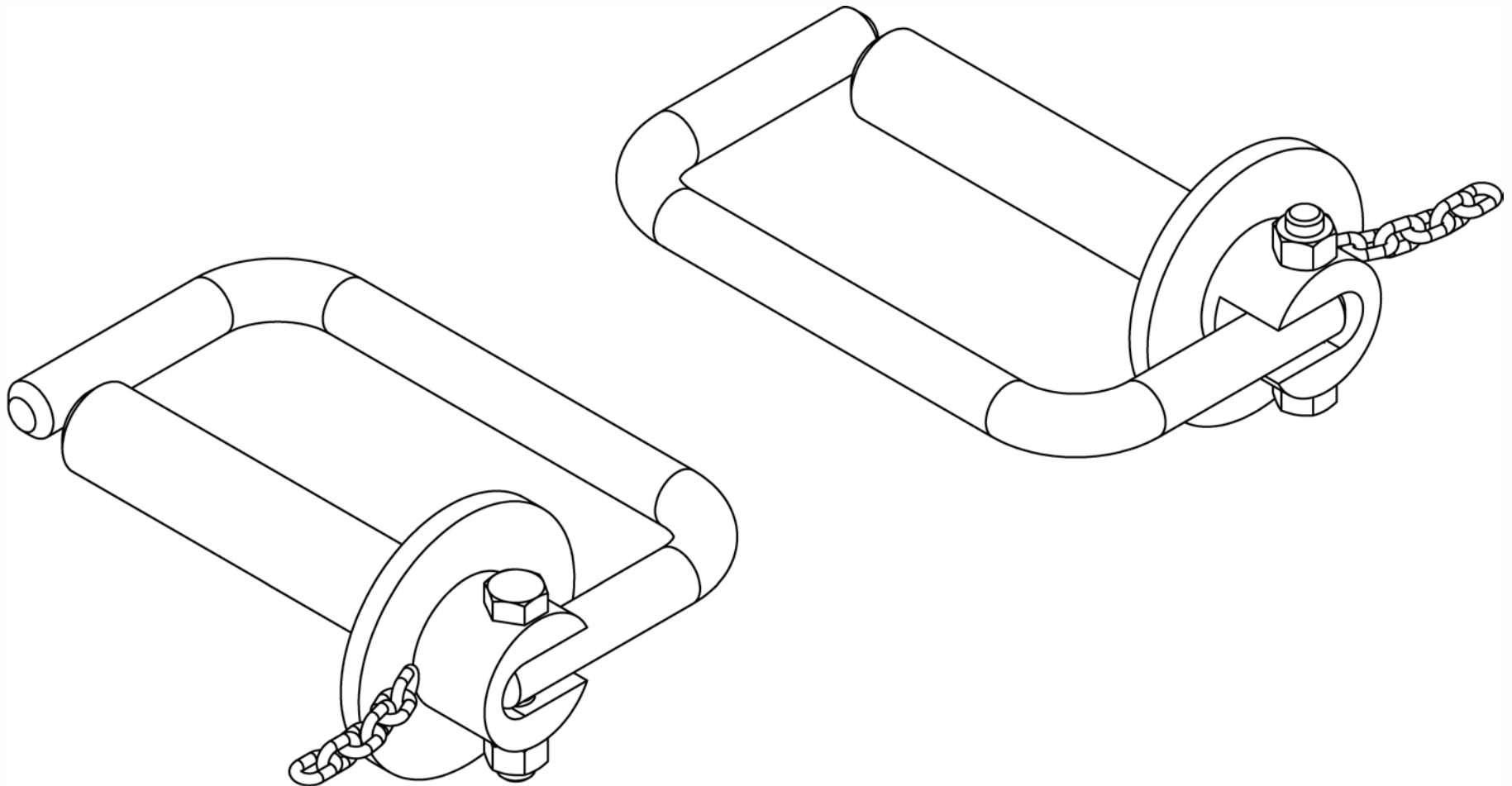
DWG. #: LHR284B

REV. #: 000

DRAWN BY: TW

DATE: 9/20/1998

REPLACES:





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BOLT HEAD WEAR WASHER

PART #: LHR0136

SHEET: 1 OF 1

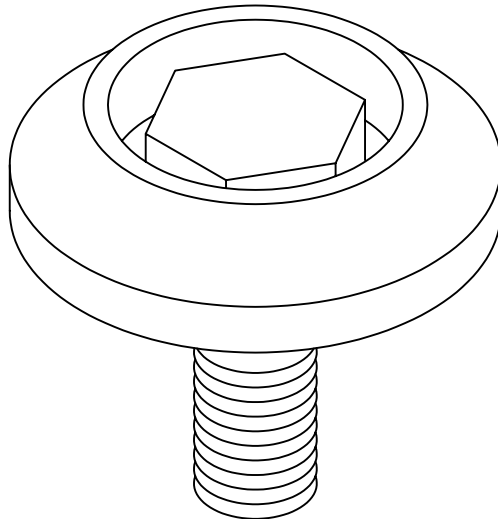
DWG. #: LHR0136

REV. #: 000

DRAWN BY: TA

DATE: 8/28/97

REPLACES: NONE



BOLT HEAD WEAR WASHER
PART#: LHR0136
SPECIFY BOLT SIZE

METRIC SIZES ALSO AVAILABLE



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NUT WEAR WASHER

PART #: LHR0137

SHEET: 1 OF 1

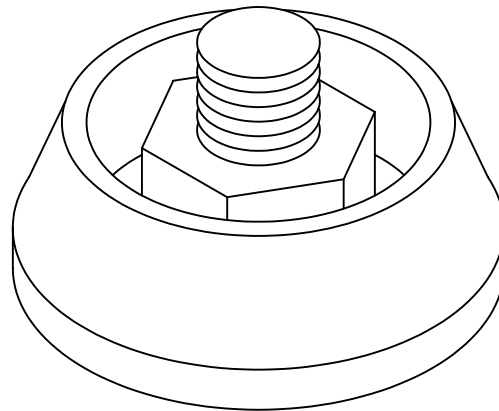
DWG. #: LHR0137

REV. #: 000

DRAWN BY: TA

DATE: 8/28/97

REPLACES: NONE



NUT WEAR WASHER

PART#: LHR0137

SPECIFY SIZE WHEN ORDERING



SECTION 3

L&H Auto Pre-Gauger

03



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L&H AUTO PREGUAGER

PART# LHR1230-001	SHEET 1 OF 1
FILE ID: LHR1230-001.idw	REV 1
DRAWN BY: DVANSICKLE	DATE 8/11/2015
REPLACES: LHR1230	

REVISION HISTORY

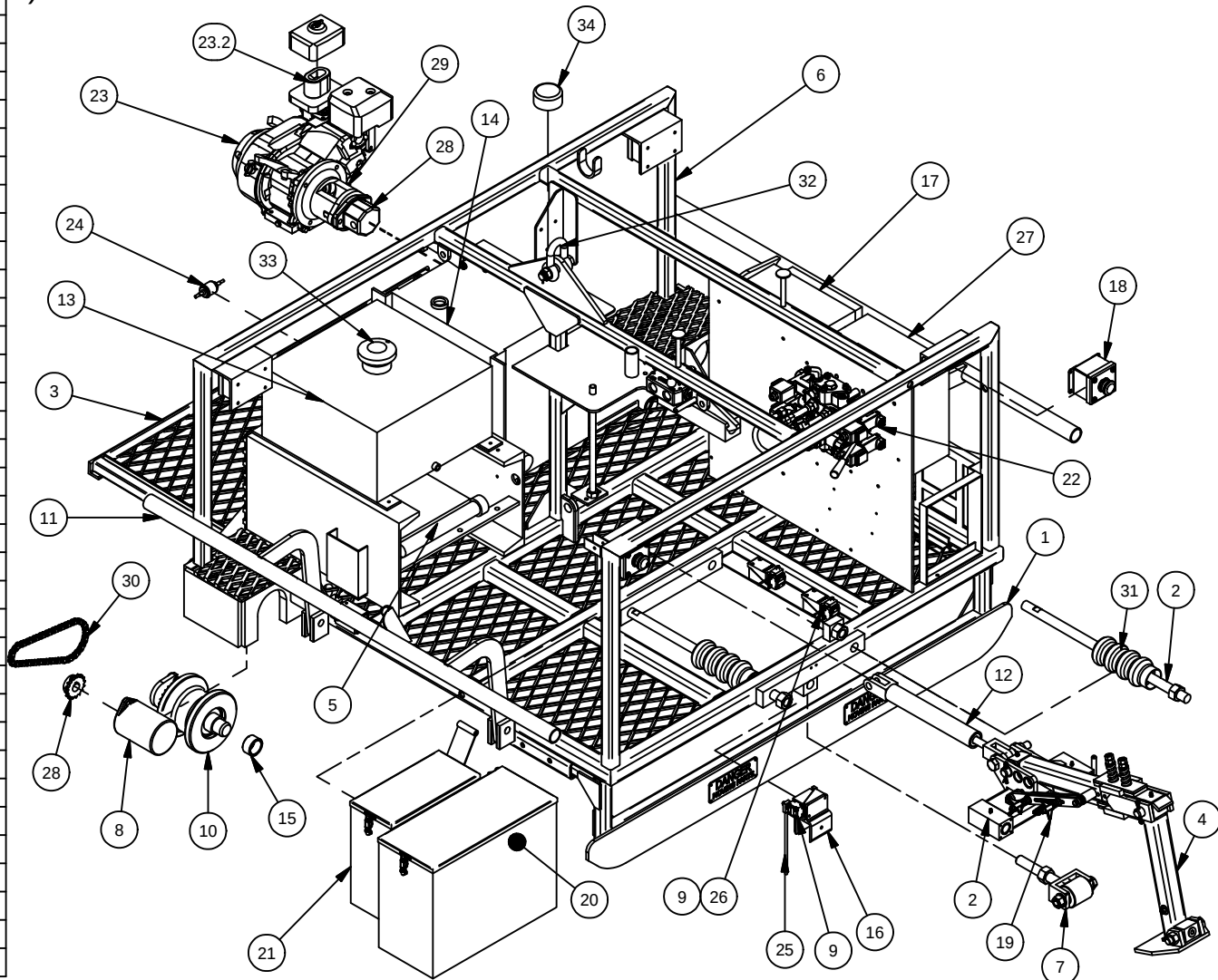
REV	DESCRIPTION	DATE	APPROVED
1	REDRAWN	8/13/2015	DAV

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHR1233	SKID RUNNER
2	2	LHR1260	SLIDE RODS
3	1	LHR1020	COUNTER WEIGHT SHELF
4	1	LHR1330	WORK ARM ASSEMBLY
5	1	LHP20523B	COOLER, HYD. OIL
6	1	LHR1229	FRAME ASSEMBLY
7	1	LHR1298 ASY	KICK NYLATRON ROLLER ASSEMBLY
8	2	LHP15362	HYDRAULIC MOTOR
9	5	LHP10324	LIMIT SWITCH
10	2	LHR1003ASY	DRIVE WHEEL ASSEMBLY
11	2	LHR1272	BUMPER ASSEMBLY
12	1	LHR1207	HYDRAULIC CYLINDER
13	1	LHR1203	GAS TANK WITH RISER
14	1	LHR1204	HYDRAULIC TANK WITH MOD.
15	4	LHR1403	BUSHING-FRAME, STEEL 2 OD X 1-5/8 ID
16	1	LHR1307	SWITCH SLIDER MOUNT
17	1	LHR1205	BATTERY BOX ASSY
18	4	LHR1402	E STOP SWITCH ASSY
19	1	LHR1352	LINEAR SNUBBER ASSEMBLY
20	1	LHR1200	BOX, PENDANT & CABLE
21	1	LHR1201	MANUAL BOX ASSY
22	1	LHP20523A	MANIFOLD, TRAVEL & WORK ARM
23	1	LHP7241	HONDA ENGINE-PREGAUGER
23.2	1	LHP20530	FILTER, AIR
24	1	LHP20531	FILTER, FUEL INLINE
25	1	LHP13570	WHISKER, NYLON (9")
26	4	LHP20532	WHISKER, STAINLESS (8.5")
27	1	LHP20543	CONTROL BOX
28	2	LHP13647	SPROCKET, N16
29	1	LHR1368	HOUSING-COUPLER, ENGINE TO PUMP
30	2	LHR1364	CHAIN #40
31	2	LHP15600	BELLOWS, ROUND
32	1	LHP15601	7/8" SHACKLE
33	1	LHR7809	FUEL TANK VENTED CAP
34	1	LHP15135	CAP, HYD. TANK-BREATH

NOTES

1) FOR FULL COMPONENT LIST SEE OWNERS MANUAL LHR7810.





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AUTO PREGAUGER SLIDER ASSEMBLY

PART# **LHR1326**

SHEET 1 OF 1

DWG NO LHR1326.idw

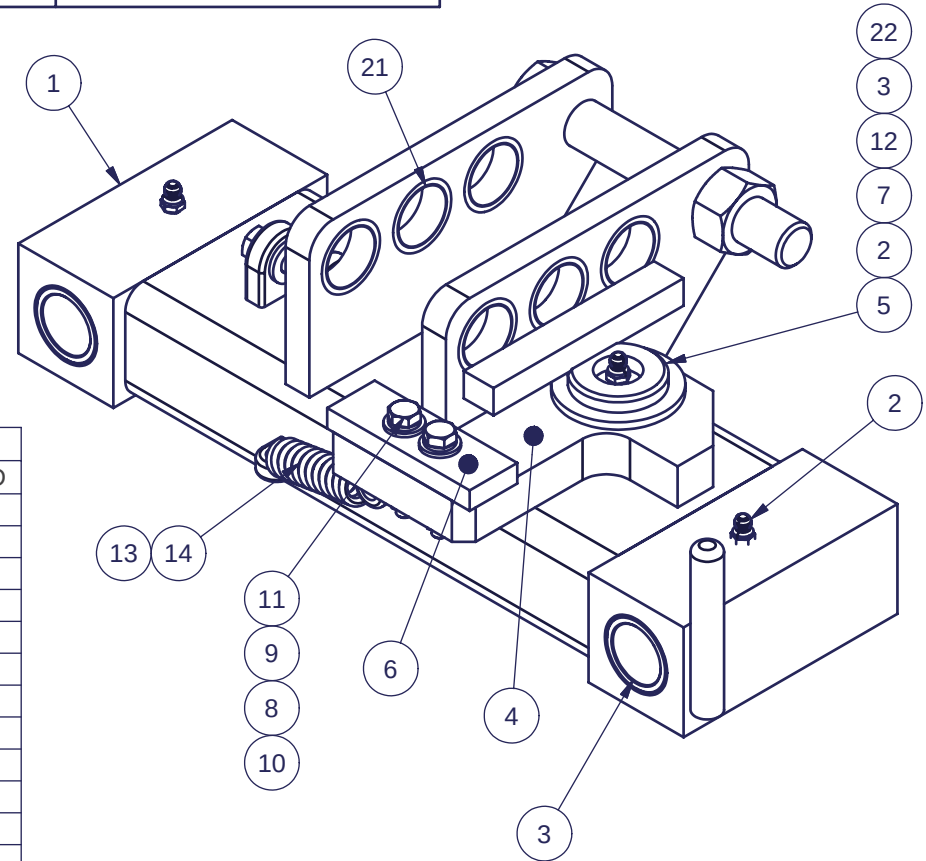
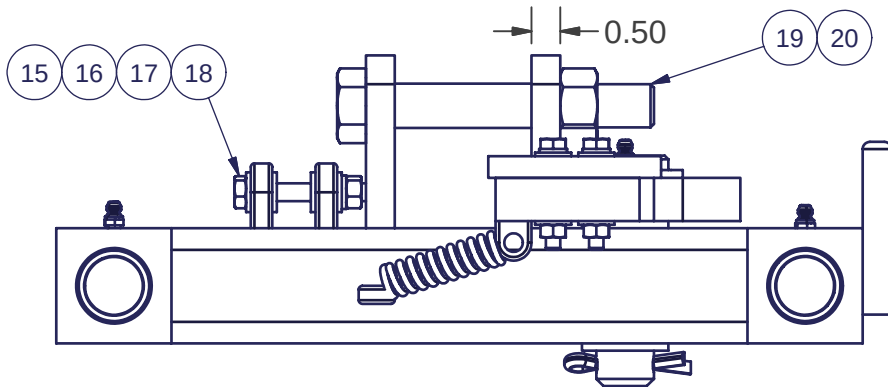
REV 1

DRAWN BY bmollman

DATE 4/6/2005

REPLACES:

WEIGHT 24 LBS



Parts List

ITEM	PART NUMBER	DESCRIPTION	REQ'D
1	LHR1323	SLIDER CARRIAGE	1
2	F GZ0002	1/8"-NPT ZERK	3
3	LHR1206	BUSHING	5
4	LHR1327	SWING LATCH ARM	1
5	LHR1329	LATCH PIN	1
6	LHR1328	WEAR PAD	1
7	F W FLAT 1.0	1" NARROW WASHER	1
8	F W FLAT 0.25	1/4" WASHER	4
9	F W LOCK 0.25	1/4" LOCK WASHER	2
10	F NUT HEX .25-20	1/4"-20 NUT	2
11	F B .25-20X 1.75	1/4"-20 BOLT 1 3/4" LONG	2
12	F COTTER .25X 2.0	1/4" Cotter PIN	1
13	LHR0282	SPRING LUG	1
14	LHR0283	SPRING	1
15	F W FLAT 0.313	5/16" FLAT WASHER	4
16	F W LOCK 0.313	5/16" LOCK WASHER	1
17	F NUT HEX 0.313-18	5/16"-18 HEX NUT	1
18	F B .313-18X 2.5	5/16"-18 BOLT 2.5"L (CUT TO 1.88")	1
19	F B .75-10X 5.0	3/4"-10 HEX BOLT 5"L	1
20	F NUT CSTL .75-10HVY	3/4"-10 CASTLE NUT	1
21	LHP5699	BUSHING	6
22	LHP5700	FLANGED BUSHING	2

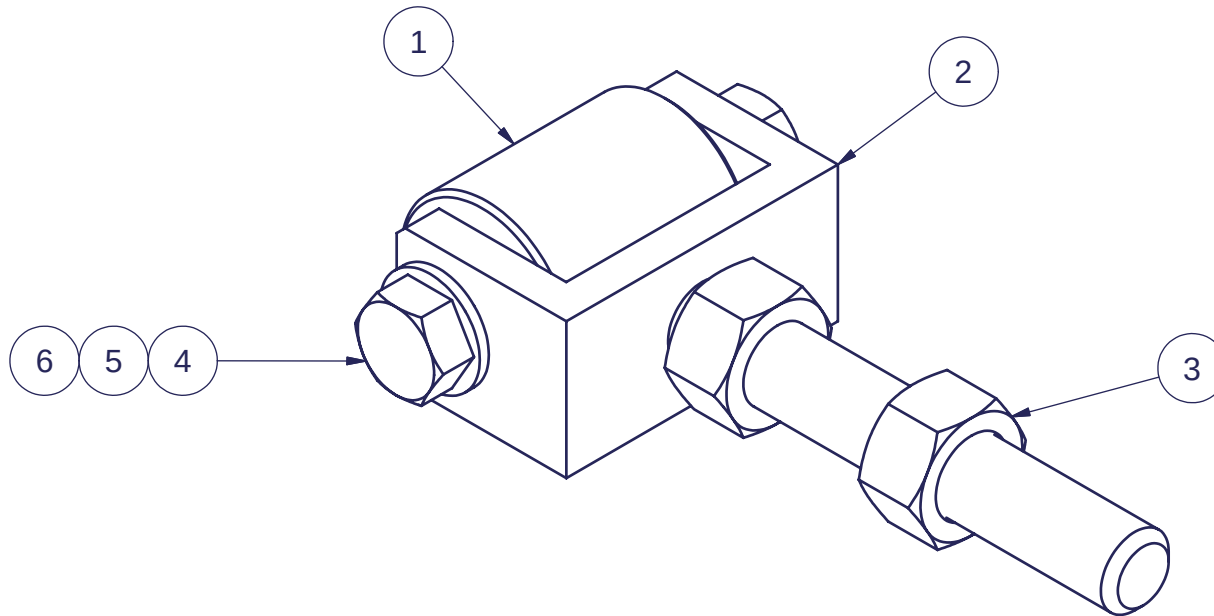


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AUTO PREGAUGER KICK ROLLER ASSEMBLY

PART# LHR1298 ASY	SHEET 1 OF 1
DWG NO LHR1298 ASY.idw	REV 001
DRAWN BY bmollman	DATE 9/14/2004
REPLACES: NONE	WEIGHT 4.4 LBS



Parts List			
ITEM	PART NUMBER	DESCRIPTION	REQ'D
1	LHR1298	KICK ROLLER NYLATRON	1
2	LHR1299	KICK ROLLER CLEVIS	1
3	F NUT HEX 1.0-8	1"-8 HEX NUT	2
4	F B .75-10X 5	3/4"-10 HEX BOLT 5"L	1
5	F W FLAT .75	3/4" FLAT WASHER	4
6	F NUT NYLOC .75-10	1/2"-10 NYLOC HEX NUT	1



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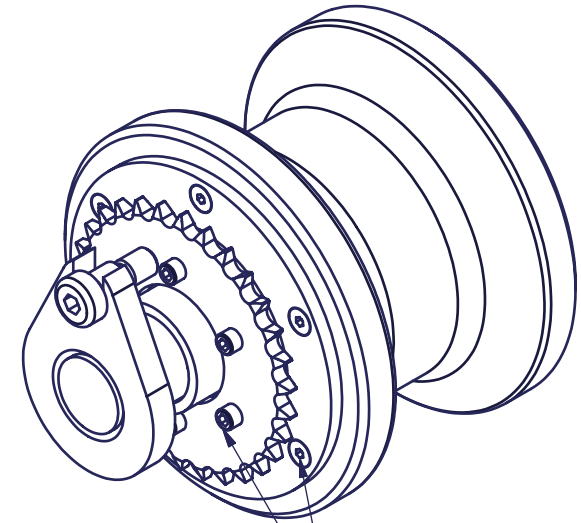
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email: info@lnh.net
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AUTO PREGAUGER DRIVE WHEEL ASSEMBLY

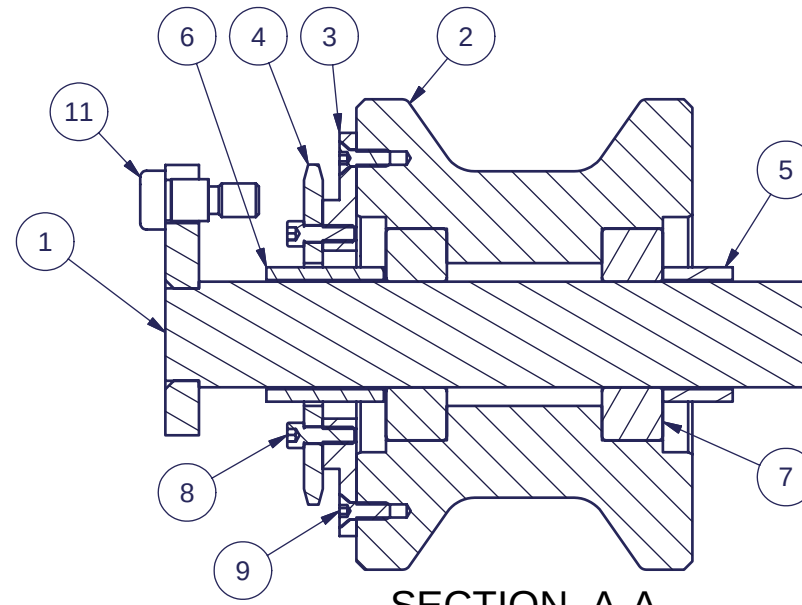
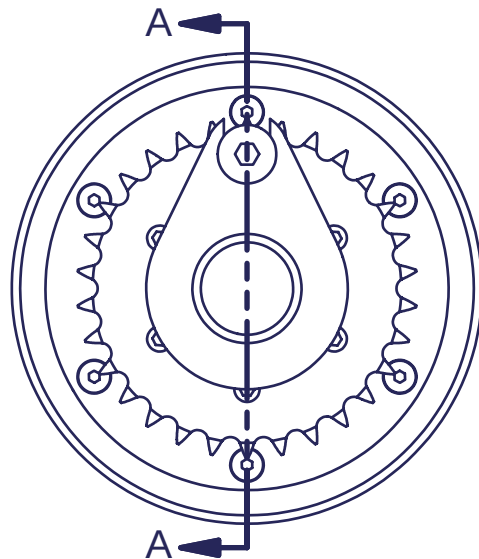
PART# LHR1003ASY	SHEET 1 OF 1
DWG NO LHR1003ASY.idw	REV 2
DRAWN BY bmallman	DATE 9/23/2004
REPLACES: NONE	WEIGHT 42

Parts List

ITEM	PART NUMBER	DESCRIPTION	REQ'D
1	LHR1263	AXLE	1
2	LHR1003	WHEEL	1
3	LHR0953	SPROCKET CONNECTION PLATE	1
4	LHR1208	SPROCKET (40A30H MOD)	1
5	LHR1287	WHEEL SPACER	1
6	LHR1286	WHEEL SPACER - SPROCKET	1
7	SB22208 W33SS	SEALED SPHERICAL ROLLER BRG	2
8	F SHCS .25-20X .75	Socket Head Cap Screw	6
9	F SHFCS .25-20X .75	Socket Flat Countersunk Head Cap Screw	6
10	#40-1/2" PITCH, ROLLER CHAIN	CHAIN: 27-OUTER LINKS + 1-MASTER LINK	1
11	04554747	JERGENS 1/2"-13 SHOULDER SCREW(MSC)	1



LOCTITE ALL SCREWS.



SECTION A-A

NOTE:
(2) WHEEL ASSEMBLIES
PER MACHINE.

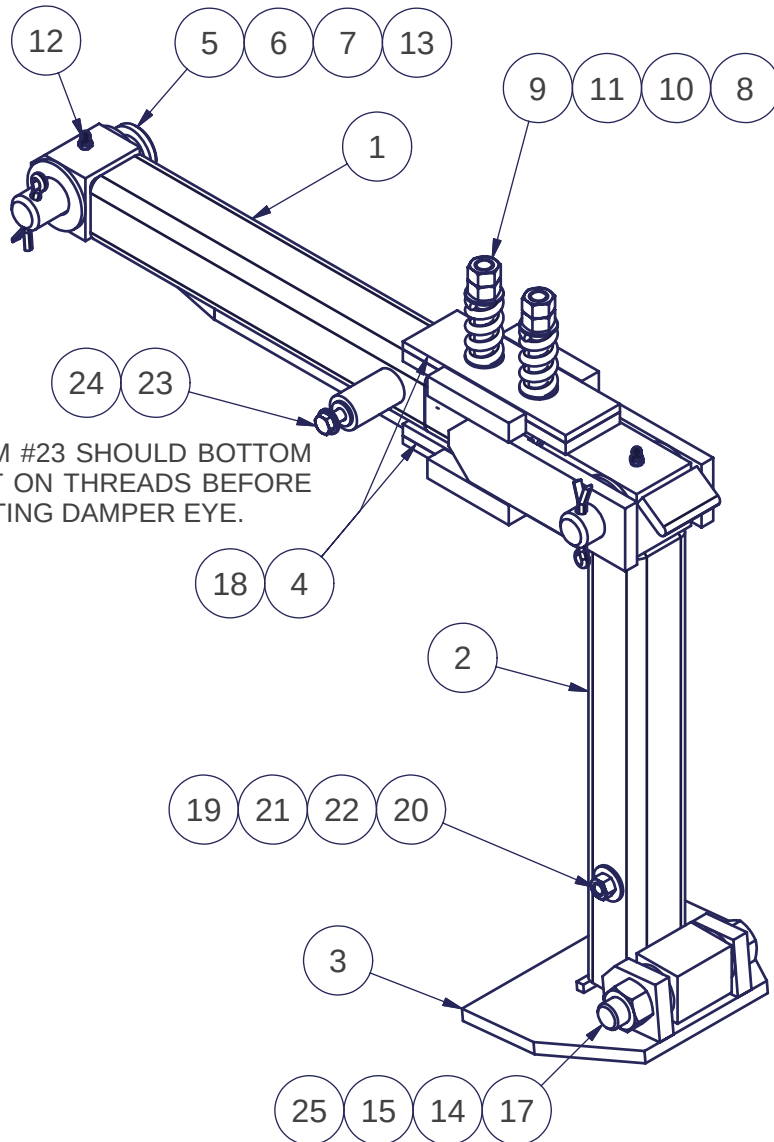


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AUTO PREGAUGER WORK ARM ASSEMBLY

PART# LHR1330	SHEET 1 OF 1
DWG NO LHR1330.idw	REV 2
DRAWN BY bmollman	DATE 4/7/2005
REPLACES:	WEIGHT 34 LBS

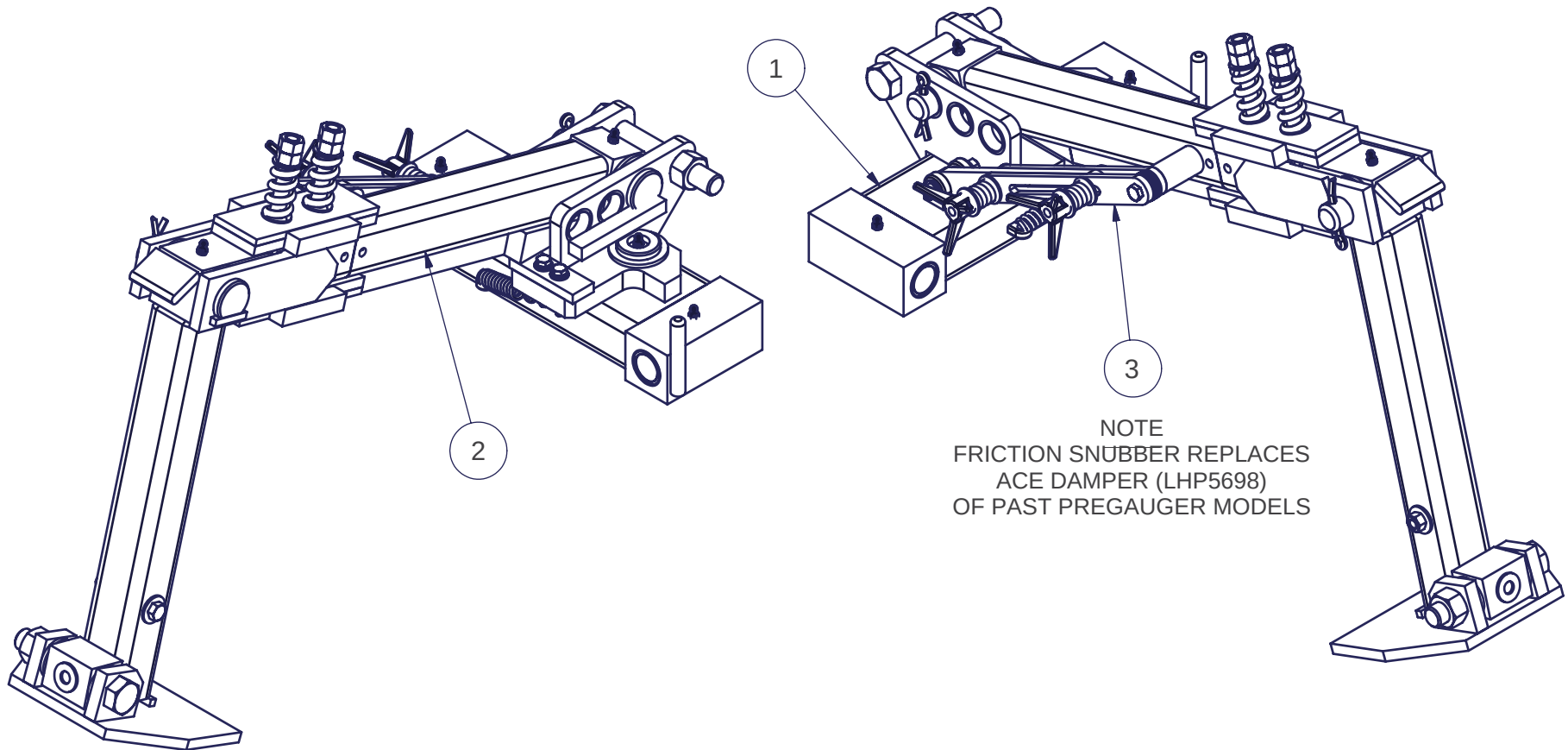


Parts List

ITEM	PART NUMBER	DESCRIPTION	REQ'D
1	LHR1331	UPPER ARM WELDMENT	1
2	LHR1332	LOWER ARM WELDMENT	1
3	LHR1341	HEAD FLAP	1
4	LHR1343	CENTERING WEAR PAD	2
5	LHR1337	PIVOT PIN	2
6	F W FLAT 1.0	1" WASHER (NARROW)	4
7	LHR1206	BUSHING	4
8	F W FLAT 0.50	1/2" WASHER	6
9	F NUT HEX .50-13	1/2"-13 HEX NUT	4
10	LHP5589	DIE SPRING	2
11	F B .50-13X 6.5	1/2"-13 HEX BOLT 6.5"LONG	2
12	F GZ0002	1/8"-NPT ZERK	2
13	F COTTER .25X 2.0	1/4" COTTER PIN	2
14	F W FLAT 0.75	3/4" WASHER	2
15	F NUT NYLOC .75-10	3/4"-10 NYLOC NUT	1
17	F B .75-10X 5.00	3/4"-10 BOLT 5" LONG	1
18	LHR1342	WEAR PAD BACKING	2
19	LHP5706	EXTENSION SPRING	1
20	F B .375-16X 2.75	3/8"-16 BOLT 2 3/4"LONG	1
21	F W FLAT 0.375	3/8" FLAT WASHER	2
22	F NUT NYLOC .375-16	3/8"-16 NYLOC NUT	1
23	F B .313-18X 1.25	5/16-18 BOLT 1.25"L	1
24	F W FLAT 0.313	5/16" FLAT WASHER	2
25	LHP5707	BUSHING	1

AUTO PREGAUGER WORKHEAD ASSEMBLY

PART# LHR1322	SHEET 1 OF 1
DWG NO LHR1322.idw	REV
DRAWN BY bmollman	DATE 4/20/2005
REPLACES: NONE	WEIGHT 63 LBS



Parts List

ITEM	PART NUMBER	DESCRIPTION	REQ'D
1	LHR1326	SLIDE CARRIAGE ASSEMBLY	1
2	LHR1330	WORK ARM ASSEMBLY	1
3	LHR1352	FRICTION SNUBBER	1



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E STOP SWITCH ASSY

PART# **LHR1402**

SHEET 1 OF 1

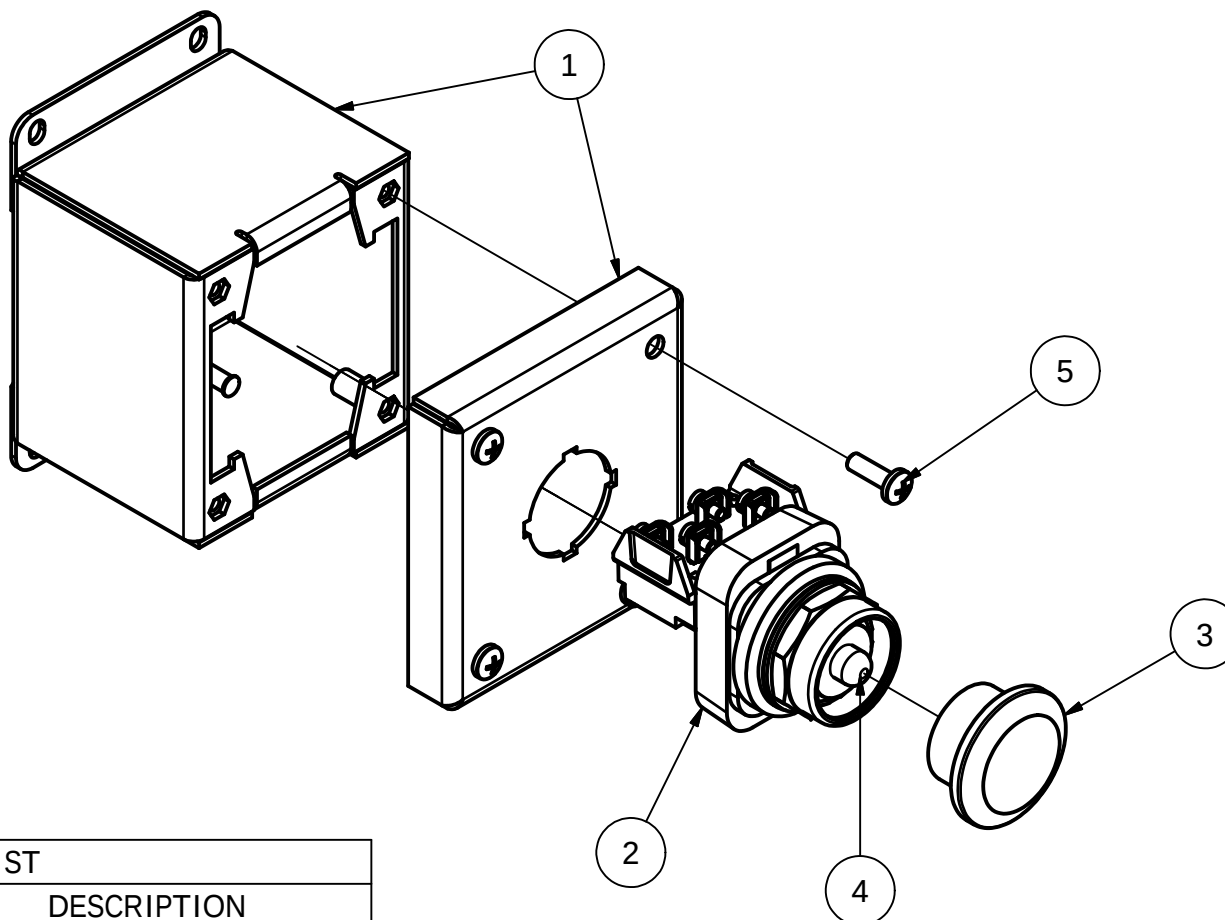
FILE ID: LHR1402.idw

REV

DRAWN BY: DVANSICKLE

DATE 8/13/2015

REPLACES:



PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHP15361	E STOP ENCLOSURE
2	1	LHP15382	EMERGENCY STOP SWITCH
3	1	LHR1366	E-STOP SWITCH RED CAP
4	1	LHP20544	BULB, MINIATURE LAMP
5	4	LHP20545	SCREW, PAN HD (#10)



SECTION 4

Fairmont

Tamper RMC305 TKO

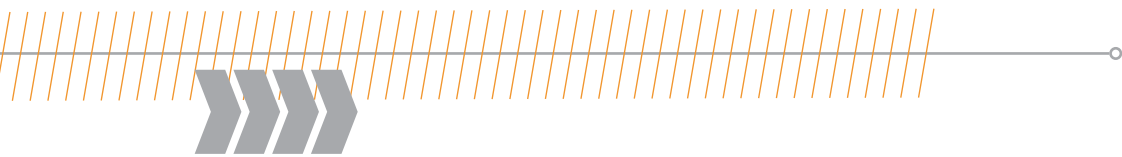
Tamper RTW TH2170

Tamper D-Clipper

04

SECTION 4

Fairmont Tamper RMC305 TKO





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TKO CLAMP TABLE ASSEMBLY

PART# **LHR7000**

SHEET 1 OF 1

FILE ID: LHR7000_SM.idw

REV 1

DRAWN BY: DVANSICKLE

DATE 9/30/2014

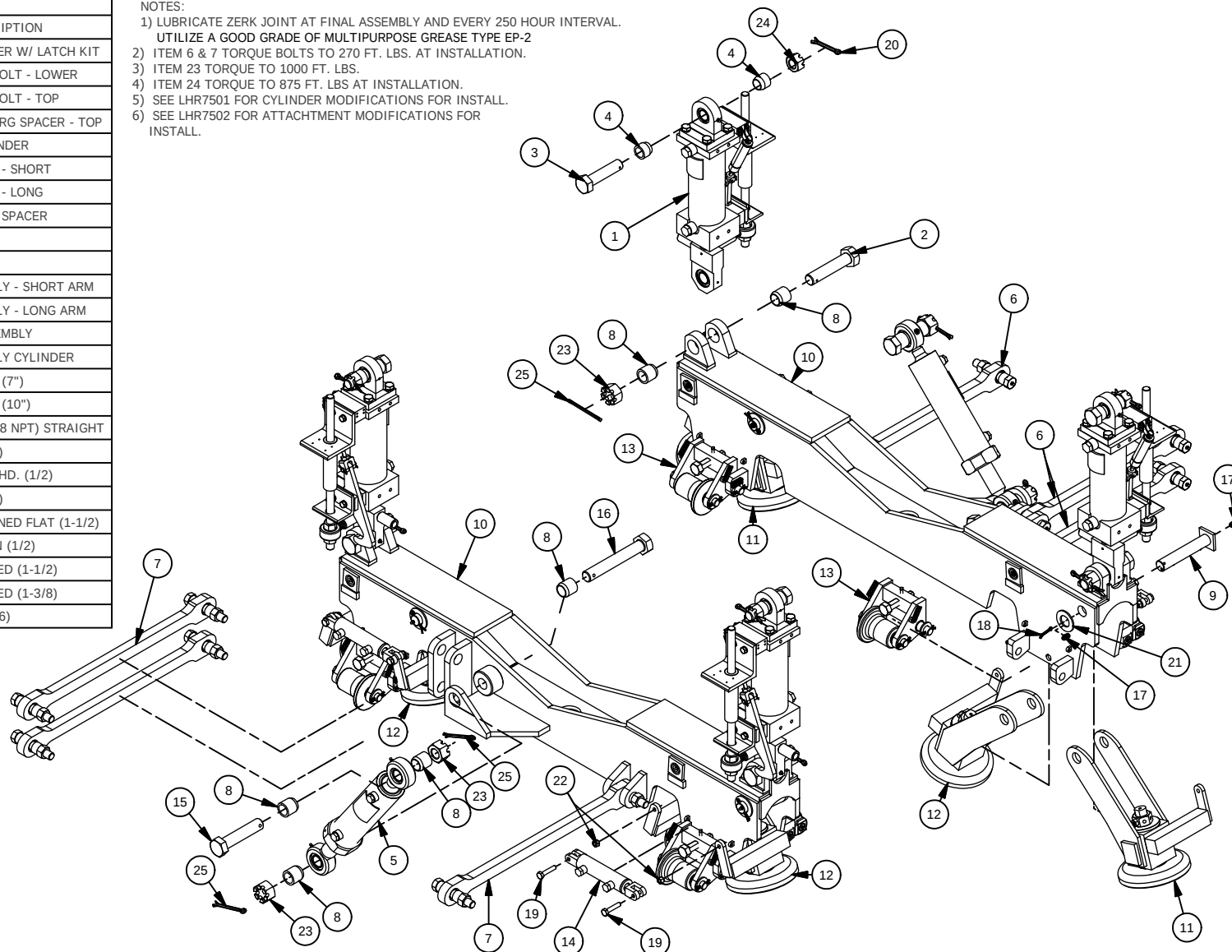
REPLACES:

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	LHR7414	JACKING CYLINDER W/ LATCH KIT
2	4	LHR7413	LIFT CYLINDER BOLT - LOWER
3	4	LHR7412	LIFT CYLINDER BOLT - TOP
4	8	LHR7411	LIFT CYLINDER BRG SPACER - TOP
5	2	LHR7301	SIDE SHIFT CYLINDER
6	3	LHR7218	RADIUS ROD KIT - SHORT
7	3	LHR7200	RADIUS ROD KIT - LONG
8	16	LHR7171	BEAM - BEARING SPACER
9	8	LHR7135	HINGE PIN
10	2	LHR7108	BEAM FRAME
11	4	LHR7106	ROLLER ASSEMBLY - SHORT ARM
12	4	LHR7105	ROLLER ASSEMBLY - LONG ARM
13	4	LHR7103-001	RAIL GUIDE ASSEMBLY
14	4	LHR7101	ROLLER ASSEMBLY CYLINDER
15	2	LHR0751	BOLT, MODIFIED (7")
16	2	LHR0750	BOLT, MODIFIED (10")
17	16	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT
18	8	LHP6557	COTTER PIN (1/4)
19	8	LHP6417	CAPSCREW, HEX HD. (1/2)
20	4	LHP5417	COTTER PIN (3/8)
21	8	LHP4113	WASHER, HARDENED FLAT (1-1/2)
22	8	LHP20377	LOCKNUT, NYLON (1/2)
23	8	LHP20373	NUT, HEX SLOTTED (1-1/2)
24	4	LHP20372	NUT, HEX SLOTTED (1-3/8)
25	8	LHMS3775	COTTER PIN (7/16)

NOTES:

- 1) LUBRICATE ZERK JOINT AT FINAL ASSEMBLY AND EVERY 250 HOUR INTERVAL.
UTILIZE A GOOD GRADE OF MULTIPURPOSE GREASE TYPE EP-2
- 2) ITEM 6 & 7 TORQUE BOLTS TO 270 FT. LBS. AT INSTALLATION.
- 3) ITEM 23 TORQUE TO 1000 FT. LBS.
- 4) ITEM 24 TORQUE TO 875 FT. LBS AT INSTALLATION.
- 5) SEE LHR7501 FOR CYLINDER MODIFICATIONS FOR INSTALL.
- 6) SEE LHR7502 FOR ATTACHMENT MODIFICATIONS FOR INSTALL.





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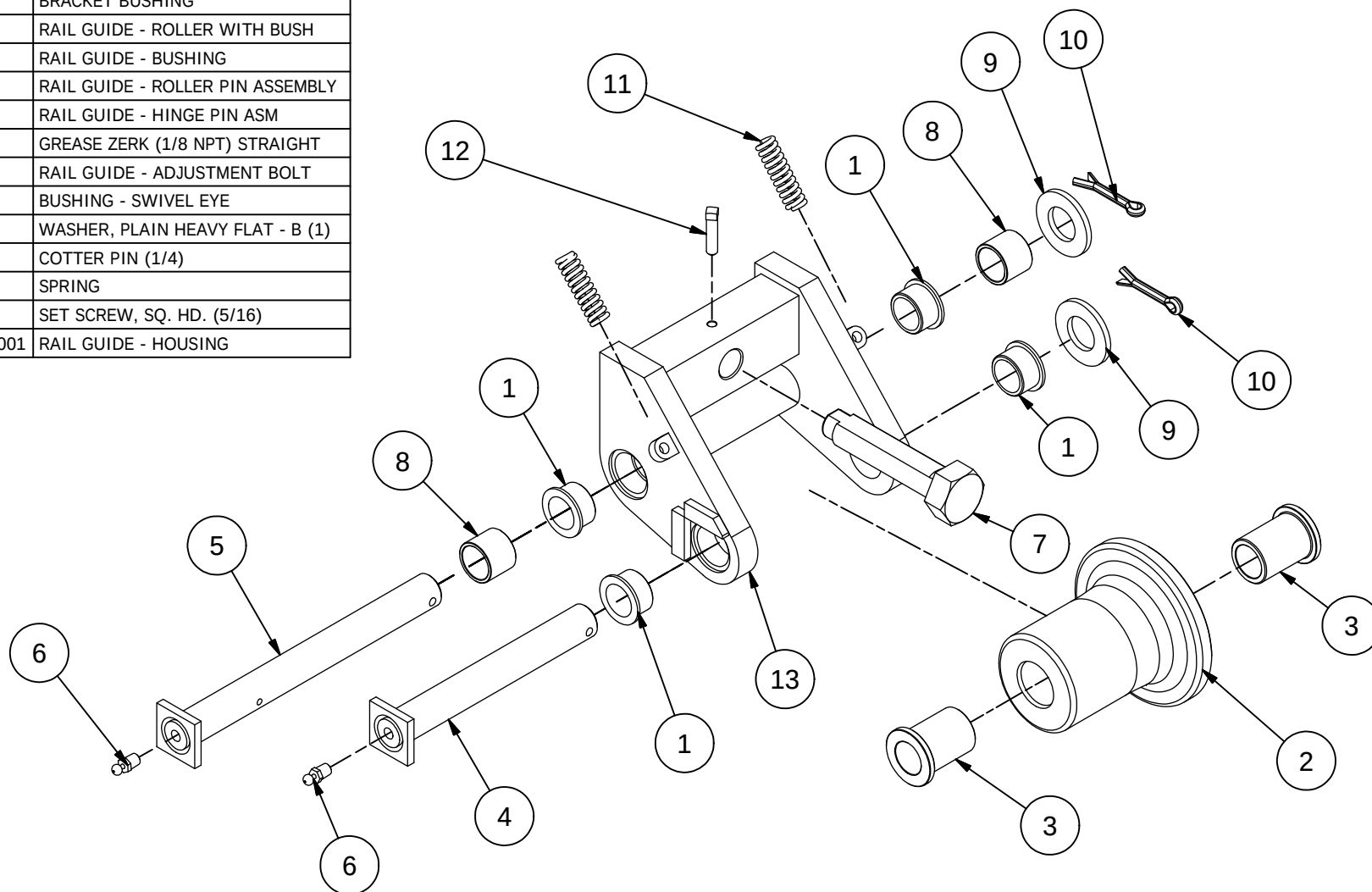
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CLAMP TABLE RAIL GUIDE ASSEMBLY

PART# LHR7103-001	SHEET 1 OF 1
FILE ID: LHR7103-001_SM.idw	REV 1
DRAWN BY: DVANSICKLE	DATE 9/30/2014
REPLACES:	

PARTS LIST

ITEM	QTY	PART NUMBE	DESCRIPTION
1	4	LHR0206	BRACKET BUSHING
2	1	LHR7140	RAIL GUIDE - ROLLER WITH BUSH
3	2	LHR7147	RAIL GUIDE - BUSHING
4	1	LHR7167	RAIL GUIDE - ROLLER PIN ASSEMBLY
5	1	LHR7166	RAIL GUIDE - HINGE PIN ASM
6	2	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT
7	1	LHR7168	RAIL GUIDE - ADJUSTMENT BOLT
8	2	LHR7188	BUSHING - SWIVEL EYE
9	2	LHP5900	WASHER, PLAIN HEAVY FLAT - B (1)
10	2	LHP6558	COTTER PIN (1/4)
11	2	LHR0283	SPRING
12	1	LHP21139	SET SCREW, SQ. HD. (5/16)
13	1	LHR7144-001	RAIL GUIDE - HOUSING





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ROLLER ASSEMBLY - LONG ARM

PART# **LHR7105**

SHEET 1 OF 1

FILE ID: LHR7105.idw

REV 1

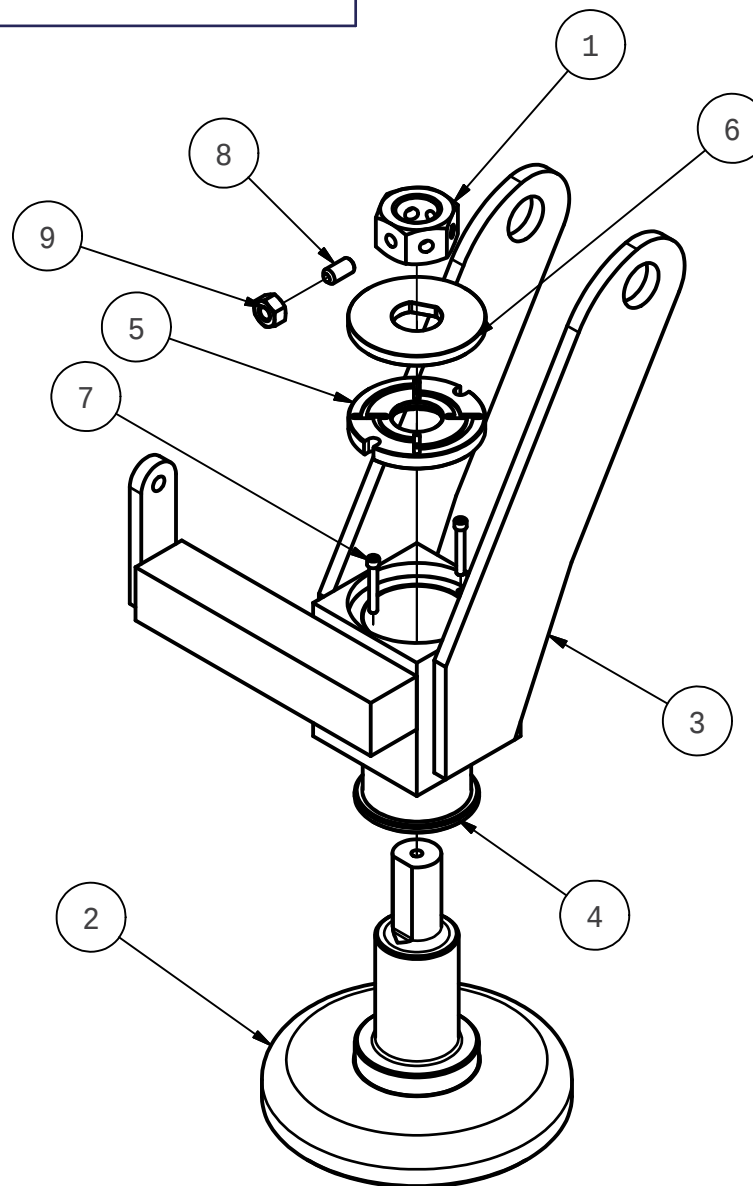
DRAWN BY: TA

DATE 4/3/2002

REPLACES:

Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT (LBS)	REQ'D
1	LHR7174	LOCK NUT	NONE	1	1
2	LHR7138	ROLLER ASSEMBLY - ROLLER	NONE	40	1
3	LHR7105A	LONG ARM WELDMENT	NONE	48	1
4	LHR7123-001	BUSHING	NONE	5	1
5	LHR7122-002	THRUST WASHER	UNKNOWN	2	1
6	LHR7173	LOCK WASHER	NONE	1	1
7	LHP11711	CAPSCREW, SOCKET HD. (1/4)	NONE	0	2
8	LHP21137	SET SCREW, HEX SOCKET (1/2)	NONE	0	1
9	LHP21138	NUT, HEX (1/2) GR8 (F NUT HEX .50-13 GR8)	NONE	0	1



REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
1	UPDATED PRINT TO CURRENT STANDARDS, MSG	4/8/2014	MRD



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CLAMP TABLE ROLLER ASSEMBLY - SHORT ARM

PART# **LHR7106**

SHEET 1 OF 1

FILE ID: LHR7106.idw

REV 2

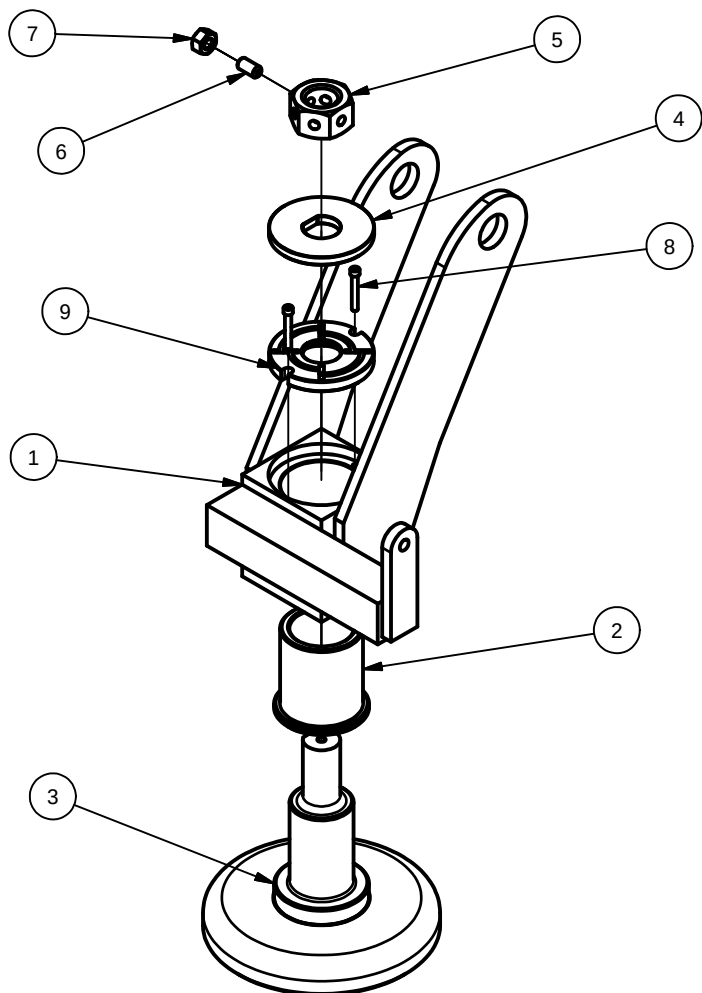
DRAWN BY: mgaffey

DATE 4/10/2014

REPLACES:

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
1	UPDATED SHEET TO CURRENT STANDARDS, MSG	4/10/2014	MRD
2	MOVE PARTS LIST TO PAGE 1	4/16/2015	DAV



Parts List

ITEM	PART NUMBER	DESCRIPTION	WT (LBS)	REQ'D
1	LHR7106A	SHORT ARM WELDMENT	47	1
2	LHR7123-001	BUSHING	5	1
3	LHR7138	ROLLER ASSEMBLY - ROLLER	40	1
4	LHR7173	LOCK WASHER	1	1
5	LHR7174	LOCK NUT	1	1
6	LHP21137	SET SCREW, HEX SOCKET (1/2)	0	1
7	LHP21138	NUT, HEX (1/2) GR8 (F NUT HEX .50-13 GR8)	0	1
8	LHP11711	CAPSCREW, SOCKET HD. (1/4)	0	2
9	LHR7122-002	THRUST WASHER	2	1



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FAIRMONT TAMPER - RMC305 TKO
CLAMP TABLE
RADIUS ROD KIT - LONG

PART# **LHR7200**

SHEET 1 OF 2

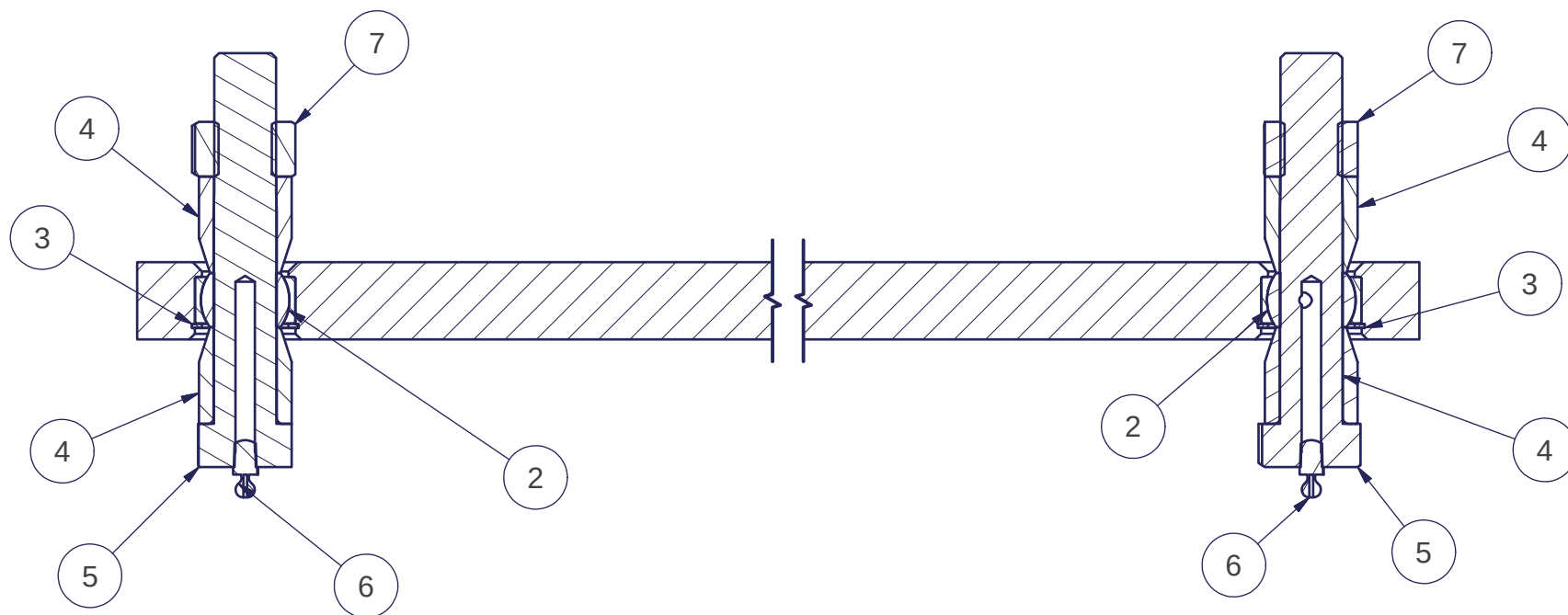
FILE ID: LHR7200.idw

REV

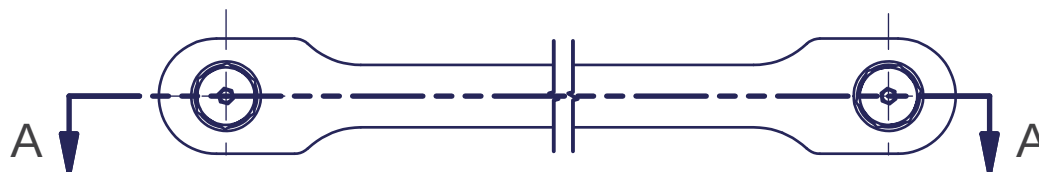
DRAWN BY: jgossard

DATE 1/8/2013

REPLACES:



SECTION A-A



TORQUE BOLTS TO 270 LB.-FT. AT INSTALLATION



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CLAMP TABLE
RADIUS ROD KIT - LONG

PART# LHR7200	SHEET 2 OF 2
FILE ID: LHR7200.idw	REV
DRAWN BY: jgossard	DATE 1/8/2013
REPLACES:	

Parts List				
ITEM	PART NUMBER	DESCRIPTION	WT (LBS)	REQ'D
1	LHR7201-001	RADIUS ROD - LONG	22	1
2	LHP0018	BEARING TORRINGTON SPHERICAL	0	2
3	LHP0202	SNAP RING - SPIROLOX	0	2
4	LHR7204	SPACER	0	4
5	LHR7217	RADIUS ROD BOLT	2	2
6	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT	0	2
7	LHP6395	NUT, HEAVY HEX (1)	0	2



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FAIRMONT TAMPER - RMC305 TKO
CLAMP TABLE
RADIUS ROD KIT - SHORT

PART# **LHR7218**

SHEET 1 OF 2

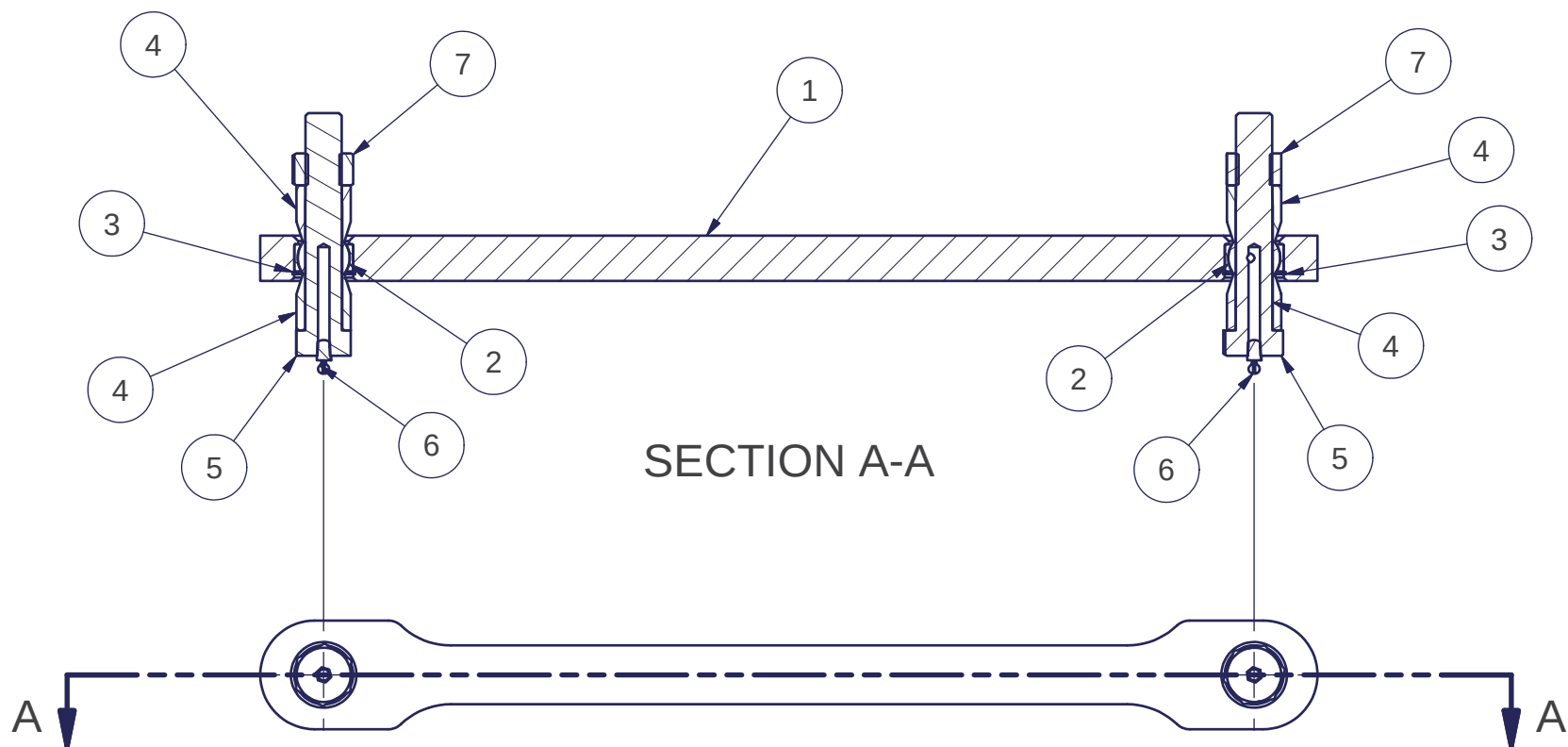
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REV

DRAWN BY: TDA

DATE 4/12/2001

REPLACES:



SECTION A-A

TORQUE BOLTS TO 270 LB.-FT. AT INSTALLATION



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CLAMP TABLE
RADIUS ROD KIT - SHORT

PART# LHR7218	SHEET 2 OF 2
FILE ID: LHR7218.idw	REV
DRAWN BY: TDA	DATE 4/12/2001
REPLACES:	

Parts List

ITEM	PART NUMBER	DESCRIPTION	WT (LBS)	REQ'D
1	LHR7218A-001	RADIUS ROD - SHORT	19	1
2	LHP0018	BEARING TORRINGTON SPHERICAL	0	2
3	LHP0202	SNAP RING - SPIROLOX	0	2
4	LHR7204	SPACER	0	4
5	LHR7217	RADIUS ROD BOLT	2	2
6	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT	0	2
7	LHP6395	NUT, HEAVY HEX (1)	0	2



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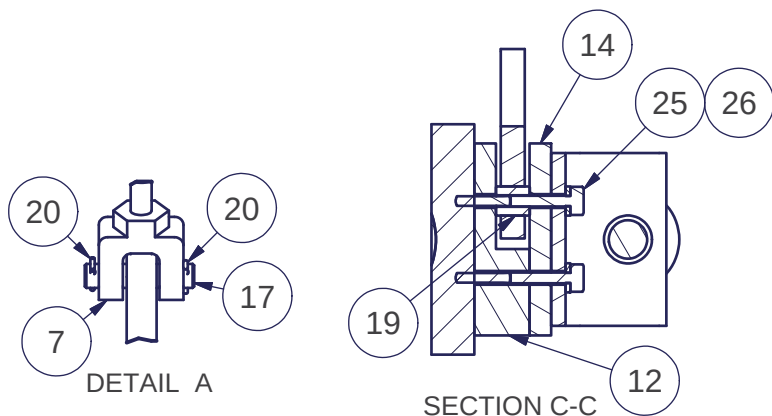
TEL: 307-682-7238
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JACKING CYLINDER W/ LATCH KIT

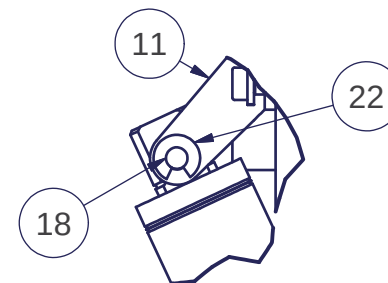
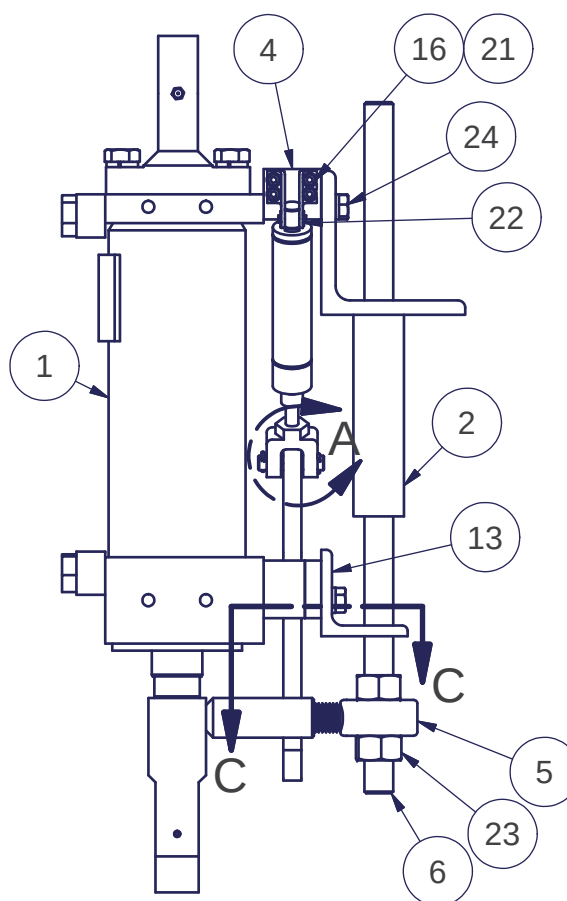
PART# LHR7414	SHEET 1 OF 1
FILE ID: LHR7414.idw	REV 1
DRAWN BY: bkase	DATE 8/28/2003
REPLACES: 106202500	

NOTES:

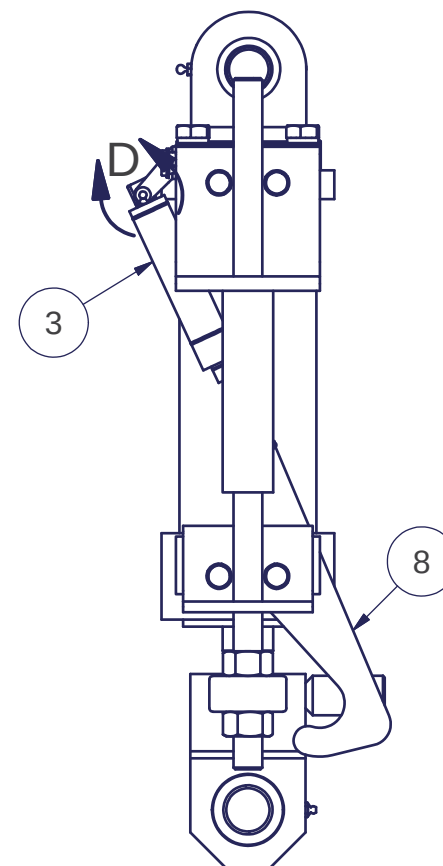
- 1) LATCH KIT INCLUDES ALL PARTS EXCEPT THE CYLINDER ORDER #LHR7415 FOR LATCH KIT.
- 2) THIS KIT WORKS ON BOTH OLD STYLE AND NEW STYLE LIFT TABLES.



Parts List					
ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	LHR7730-002	LIFT CYLINDER	501900017	41.3 LB	1
2	LHR7418	LIMIT ROD GUIDE - UPPER	106188000	6.0	1
3	LHP0001	BIMBA AIR CYLINDER	NONE	NA	1
4	LHR7422	LATCH, UPPER, LIFT CYL.	UNKNOWN	4.6	1
5	LHR7425	ROD END	106124000	1.0	1
6	LHR7419	LIMIT ROD	106190000	5.3	1
7	LHR7426	ROD CLEVIS	UNKNOWN	.3	1
8	LHR7416-001	LATCH	UNKNOWN	4.0	1
11	LHR7424	PIVOT BRACKET EARS	UNKNOWN	.1	1
12	LHR7421	LATCH SPACER - LOWER	UNKNOWN	2.5	1
13	LHR7417	LIMIT ROD GUIDE - LOWER	106187000	2.5	1
14	LHR7421A	SPACER	UNKNOWN	1.5	1
16	F SHCS 1/4-20 - .75	SOCKETHEAD CAPSCREW 1/4-20X1	UNKNOWN	NA	4
17	LHP0142	PIVOT BRACKET EARS	UNKNOWN	.1	1
18	LHP0144	PIVOT BRACKET PIN	UNKNOWN	.1	1
19	LHR7423	PIVOT BUSHING	UNKNOWN	.1	1
20	F COTTER .0938X 1	COTTER PIN 3/32X1"	UNKNOWN	NA	2
21	F LOCK .25	1/4 LOCK WASHER	UNKNOWN	NA	4
22	LHP0164	RETAINER RING 1/4 E STYLE	67150680	NA	2
23	F NUT JAM 1.0-8	JAM NUT 1"-8 UNC	F020616	NA	2
24	LHP6437	CAPSCREW, HEX HD. (1/2)	NA	NA	2
25	LHP5226	CAPSCREW, HEX HD. (1/2)	NA	NA	2
26	LHP5374	WASHER, LOCK (1/2)	NA	NA	4



DETAIL D



REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
1	REDRAWN	9/30/2014	DAV



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FAIRMONT TAMPER

JACKING CYL. ASSY

PART# **LHR7730-002**

SHEET 1 OF 1

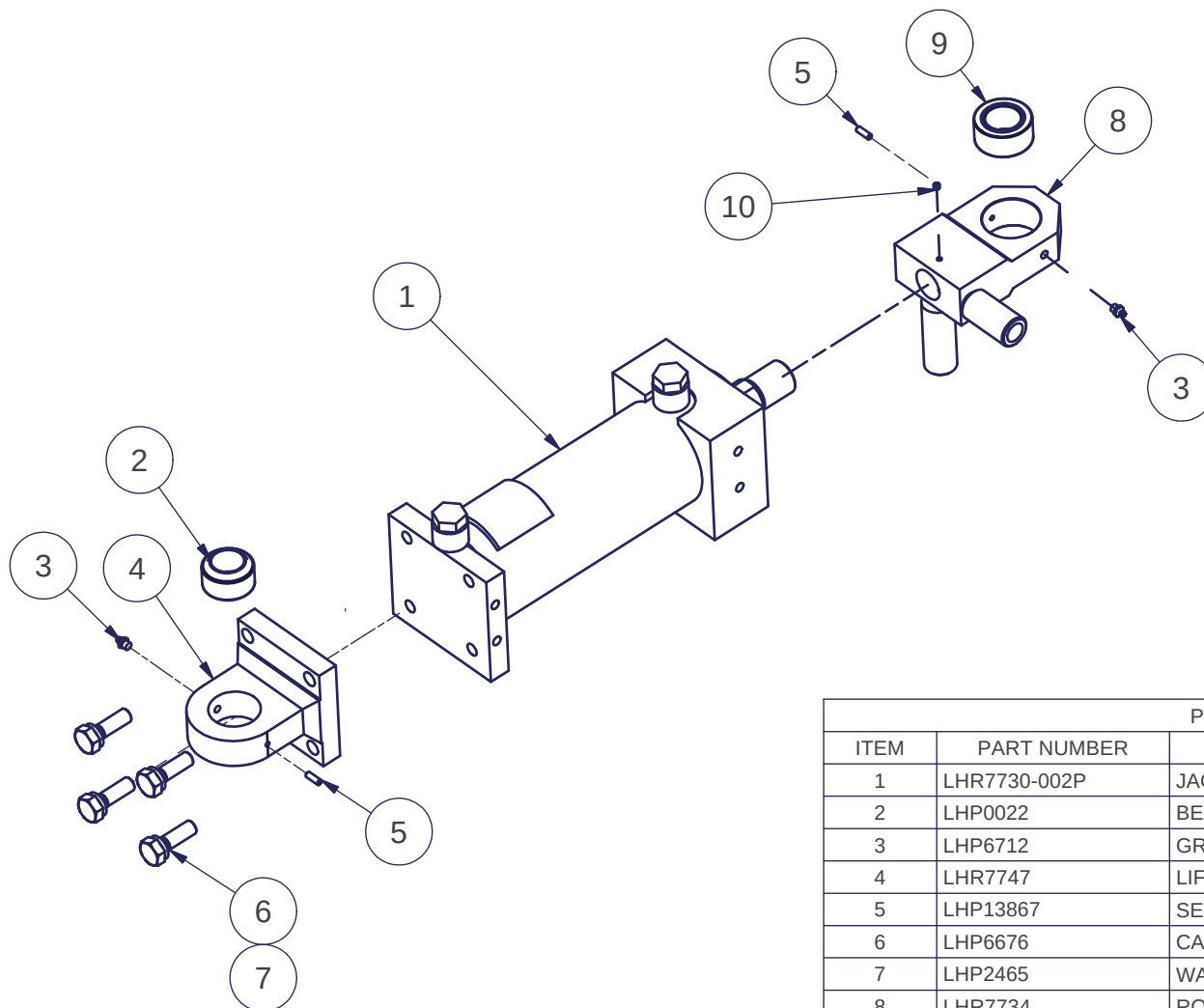
FILE ID: LHR7730.idw

REV

DRAWN BY: bkase

DATE 5/29/2003

REPLACES:



Parts List

ITEM	PART NUMBER	DESCRIPTION	REQ'D
1	LHR7730-002P	JACKING CYLINDER	1
2	LHP0022	BEARING, SPHERICAL	1
3	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT	2
4	LHR7747	LIFT CYLINDER TOP EYE BRACKET	1
5	LHP13867	SET SCREW, HEX SOCKET (1/4)	2
6	LHP6676	CAPSCREW, HEX HD. (5/8)	4
7	LHP2465	WASHER, LOCK (5/8)	4
8	LHR7734	ROD END	1
9	LHP0024	BEARING, SPHERICAL	1
10	LHP13869	SET SCREW, HEX SOCKET (1/4)	1



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WORK ARM ASSEMBLY

PART# **LHR7599-001**

SHEET 1 OF 2

FILE ID: LHR7599.idw

REV 1

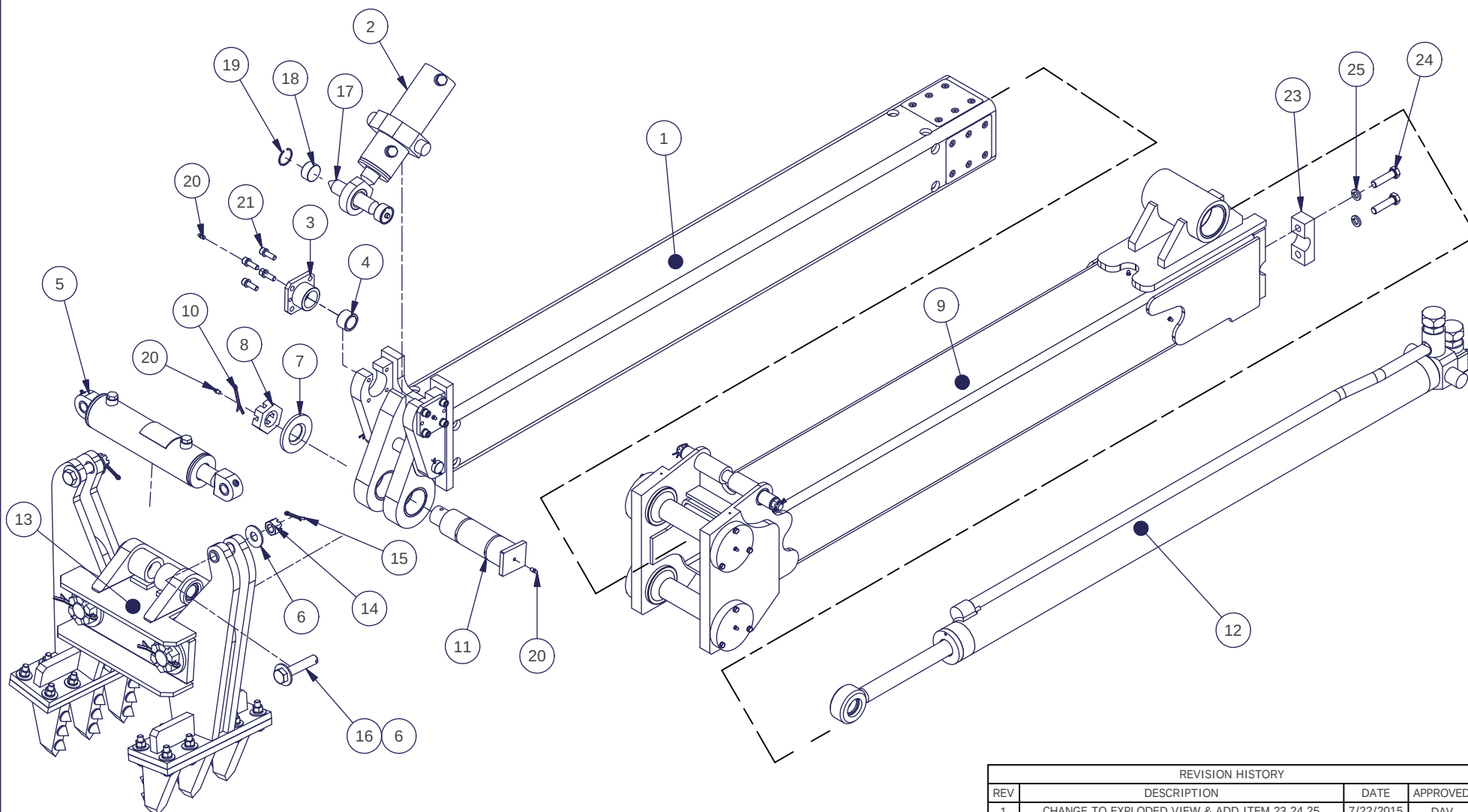
DRAWN BY: DVANSICKLE

DATE 7/22/2015

REPLACES: 501900012

NOTES:

1) TORQUE ITEM 24 TO 275 FT-LB & USE HIGH STRENGTH LOC-TITE



REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
1	CHANGE TO EXPLODED VIEW & ADD ITEM 23,24,25	7/22/2015	DAV



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WORK ARM ASSEMBLY

PART# **LHR7599**

SHEET 2 OF 2

FILE ID: LHR7599.idw

REV 1

DRAWN BY: DVANSICKLE

DATE 7/22/2015

REPLACES: 501900012

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHR7625	INNER TUBE ASSEMBLY
2	1	LHR7614	TILT CYLINDER
3	2	LHR7658	BEARING CAP W/O BUSHING
4	2	LHR7659	TILT CYLINDER BUSHING
5	1	LHR7661	HYDRAULIC CYLINDER TIE GRIP
6	4	LHR7612	WROUGHT WASHER - 1"
7	1	LHR7610	WASHER
8	1	LHR7611	HEX NUT
9	1	LHR7626-001	OUTER TUBE ASSEMBLY
10	1	F COTTER .375X3.0	3/8 X 3.0 COTTER PIN
11	1	LHR7615	PIN, HEAD PIVOT
12	1	LHR7654	EXTRACT CYLINDER
13	1	LHR7601	WORK HEAD ASSEMBLY
14	2	LHP5237	NUT, HEX SLOTTED (1)
15	2	LHP6559	PIN, COTTER, .25 X 2.0
16	2	LHR7680	MODIFIED BOLT
17	1	LHR7662	PIN
18	2	LHR7663	END PLUG
19	2	LHP0243	SNAP RING - INTERNAL
20	4	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT
21	8	LHP10419	CAPSCREW, SOCKET HD. (1/2)
22	8	LHP5374	WASHER, LOCK (1/2)
23	2	LHR7634	TRUNNION END CAP
24	4	LHP5451	CAPSCREW, HEX HD. (3/4)
25	4	LHP5276	WASHER, LOCK (3/4)



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FAIRMONT TAMPER - RMC305 TKO

WORK ARM INNER TUBE ASSEMBLY

PART# **LHR7625**

SHEET 1 OF 1

FILE ID: LHR7625.idw

REV 3

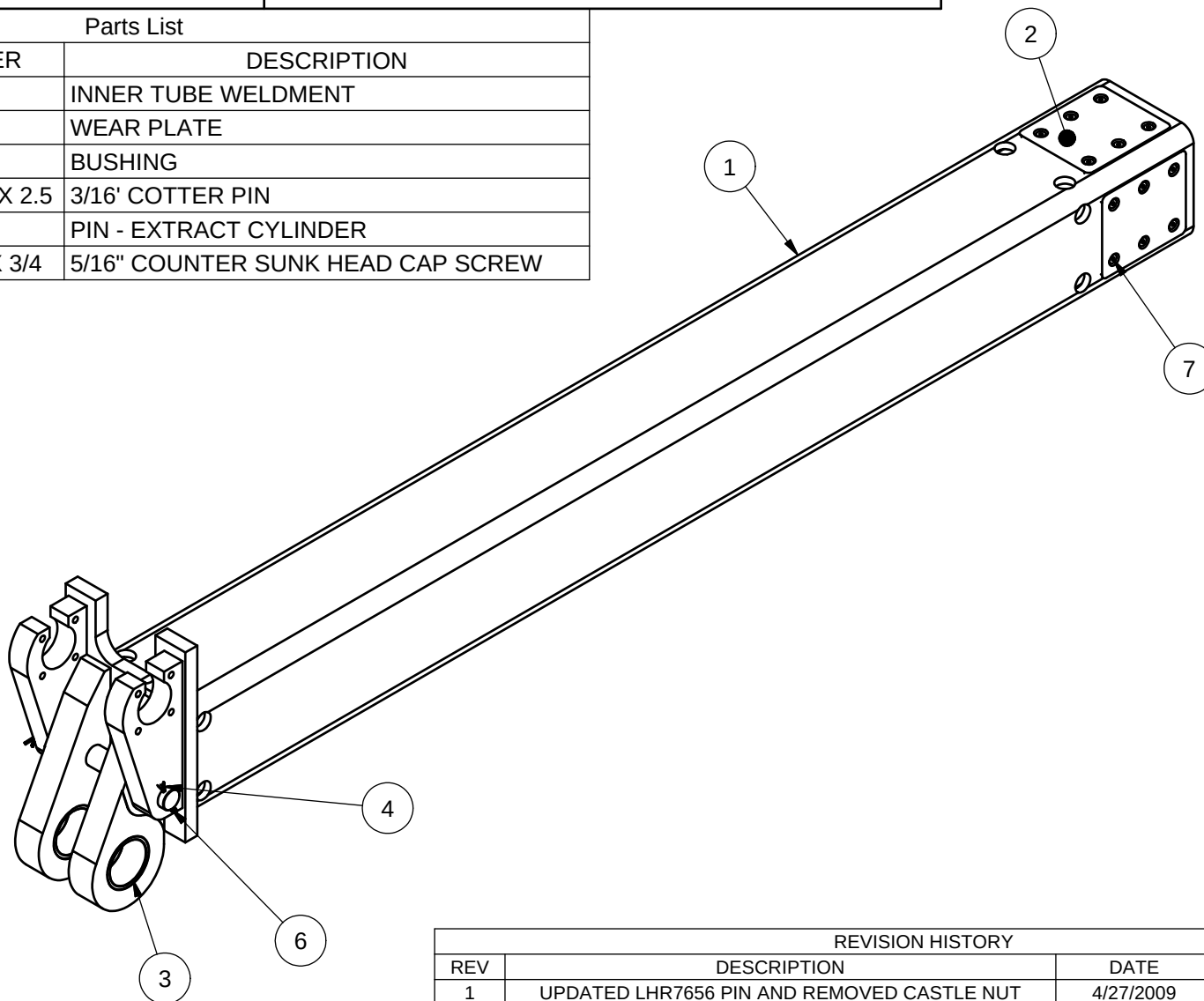
DRAWN BY: smccreary

DATE 8/10/2005

REPLACES:

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHR7627	INNER TUBE WELDMENT
2	4	LHR7647	WEAR PLATE
3	2	LHR7642	BUSHING
4	2	F COTTER .1875X 2.5	3/16' COTTER PIN
6	1	LHR7656	PIN - EXTRACT CYLINDER
7	24	F SHCS .313-18X 3/4	5/16" COUNTER SUNK HEAD CAP SCREW



REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
1	UPDATED LHR7656 PIN AND REMOVED CASTLE NUT	4/27/2009	RLO
2	REMOVE STOPS	11/9/2009	RLO
3	CHANGE DWG BORDER	7/22/2015	DAV



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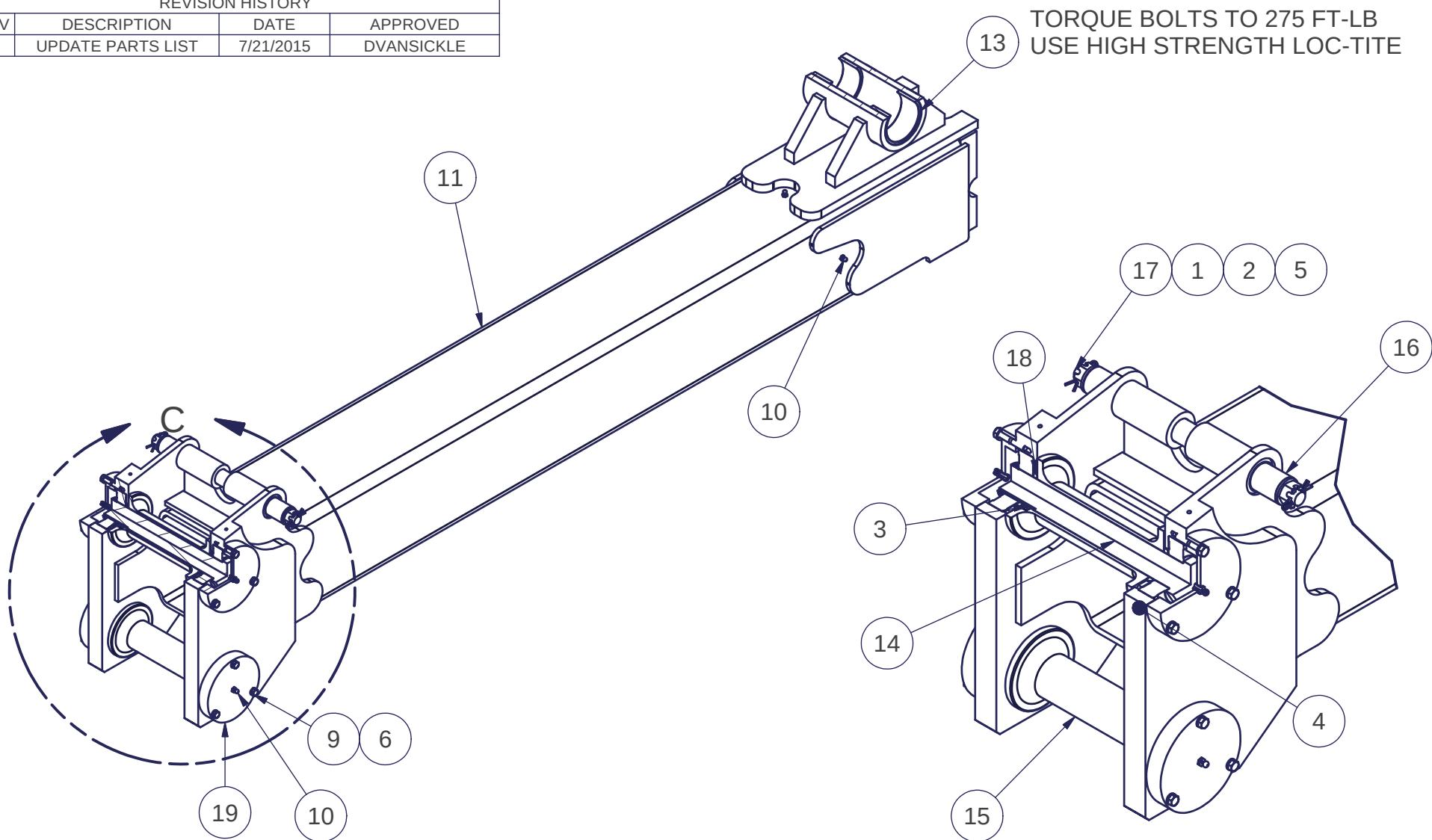
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OUTER TUBE ASSEMBLY

PART# LHR7626-001	SHEET 1 OF 2
FILE ID: LHR7626-001.idw	REV 1
DRAWN BY: bmollman	DATE 7/21/2015
REPLACES: 160886	WEIGHT: 615 LBS

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
1	UPDATE PARTS LIST	7/21/2015	DVANSICKLE





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OUTER TUBE ASSEMBLY

PART# LHR7626-001	SHEET 2 OF 2
FILE ID: LHR7626-001.idw	REV 1
DRAWN BY: bmollman	DATE 7/21/2015
REPLACES: 160886	

Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	F NUT CSTL .75-10HVY	NUT 3/4"-10 CASTLE UNC-HEAVY 2H			2
2	F COTTER .1875X 2.0	COTTER PIN 3/16" X 2" ZINC			2
3	KEY 1018 0.3125	5/16" KEYSTOCK .7 LONG			1
4	LHP0034	BEARING - SPHERICAL ROLLER			4
5	LHP4114	WASHER, HARDENED FLAT (3/4)			2
6	LHP4232	WASHER, LOCK (5/16)			12
9	LHP5942	CAPSCREW, HEX HD. (5/16)			12
10	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT			8
11	LHR7628-001	OUTER TUBE WELDMENT			1
13	LHR7637	MOUNTING BUSHING			2
14	LHR7650	SHAFT			2
15	LHR7652	THRUST ROLLER			2
16	LHR7697-001	SPACER			2
17	LHR7655-001	PIN, LIFT CYLINDER			1
18	LHR7681	SPACER			4
19	LHR7623	CAP			4



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WORK HEAD ASSEMBLY

PART# **LHR7601**

SHEET 1 OF 2

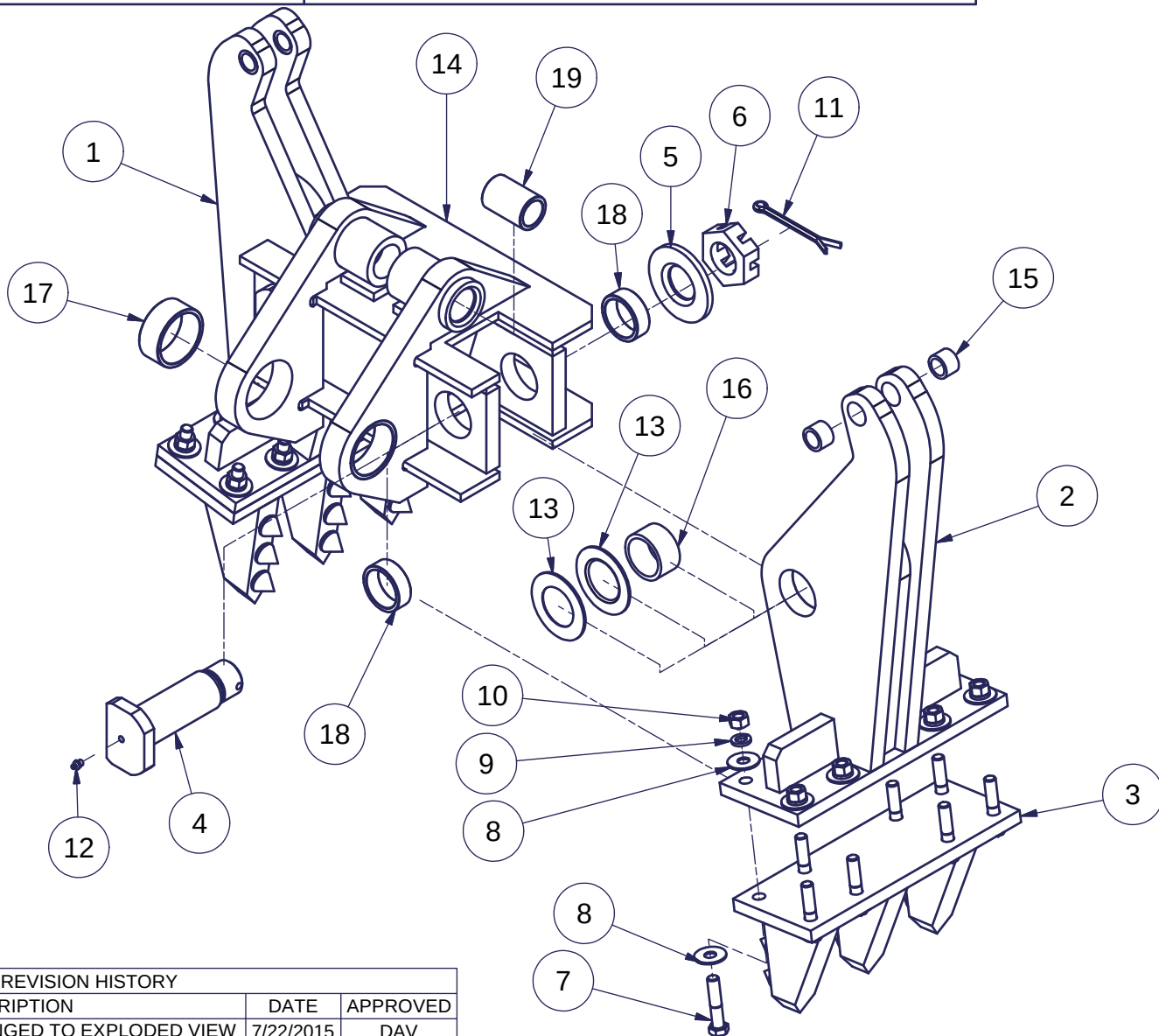
FILE ID: LHR7601.idw

REV 1

DRAWN BY: bmollman

DATE 7/21/2015

REPLACES: 160952



REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
1	BUSHING ADDED, CHANGED TO EXPLODED VIEW	7/22/2015	DAV



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WORK HEAD ASSEMBLY

PART# LHR7601	SHEET 2 OF 2
FILE ID: LHR7601.idw	REV 1
DRAWN BY: bmollman	DATE 7/21/2015
REPLACES: 160952	

Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	LHR7606	GRIPPER ARM (REAR)			1
2	LHR7607	GRIPPER ARM (FRONT)			1
3	LHP0205	TIE GRIPPER			2
4	LHR7608	PIN, JAW PIVOT			2
5	LHR7610	WASHER			2
6	LHR7611	HEX NUT			2
7	F B .625-11X 3.0	5/8"-11 X 3" HEX BOLT			16
8	F W FLAT .625	5/8" FLAT WASHER			32
9	F W LOCK .625	5/8" LOCK WASHER			16
10	F NUT HEX .625-11	5/8"-11 NUT			16
11	F COTTER .375X 4.0	3/8" X 4"L COTTER PIN			2
12	F GZ0002	1/8" NPT Zerk			2
13	LHR7660	THRUST WASHER			4
14	LHR7768	WORK HEAD FRAME			1
15	LHR7630	BUSHING - CYLINDER PIVOT			4
16	LHR7629	ARM BUSHING - JAW PIVOT			4
17	LHR7621	BUSHING - HEAD PIVOT			2
18	LHR7622	BUSHING - JAW PIVOT			4
19	LHR7620	BUSHING - JAW PIVOT			2



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CYLINDER, LIFT & KICK

PART# **LHR7709**

SHEET 1 OF 1

FILE ID: LHR7709ILL.idw

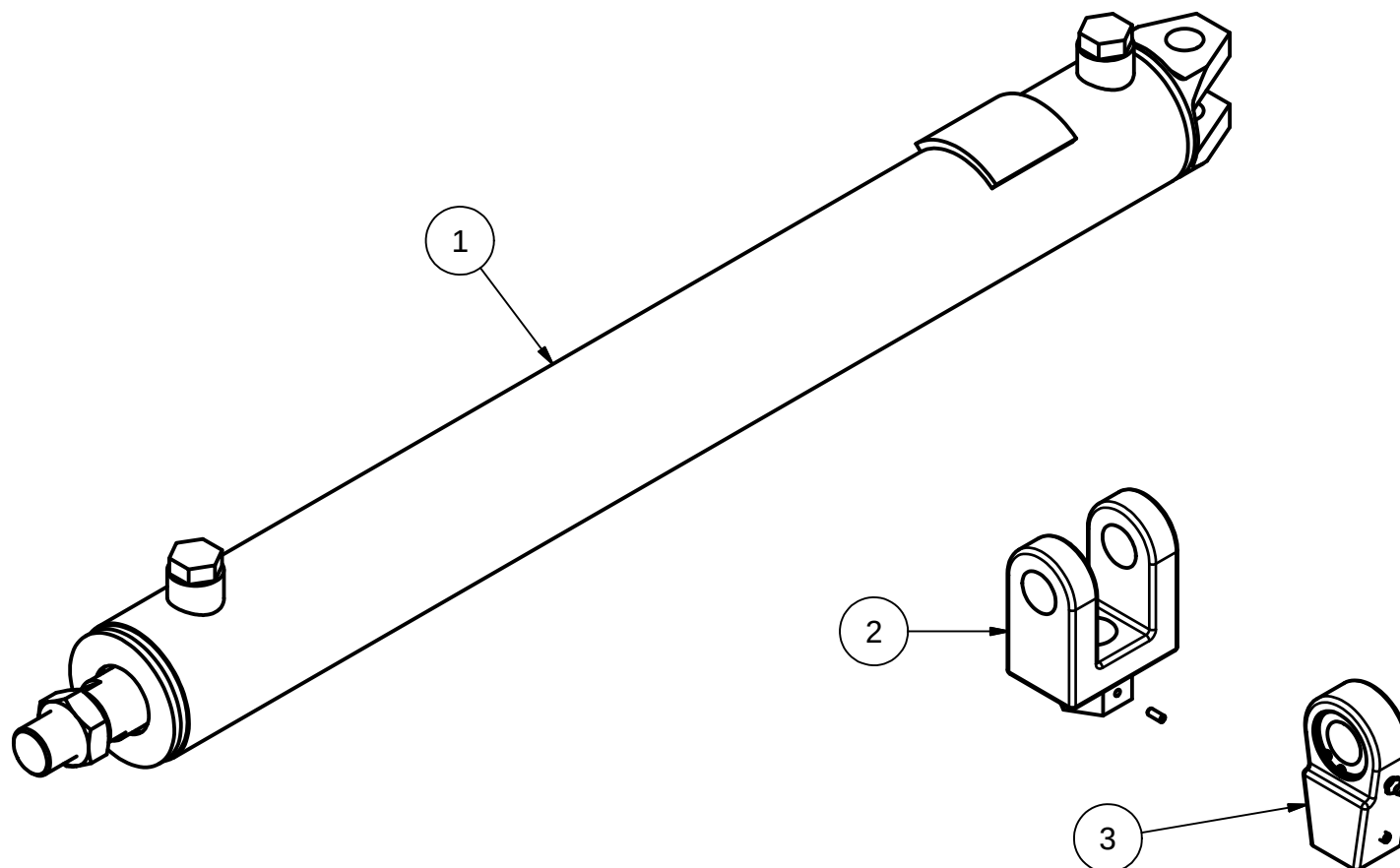
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DRAWN BY: DVANSICKLE

DATE 7/22/2015

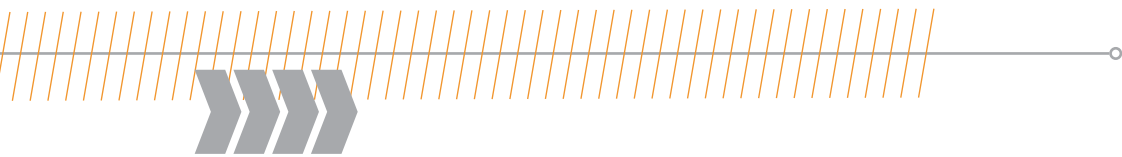
REPLACES: 501900016

ITEM	PART NUMBER	DESCRIPTION
1	LHR7709	CYLINDER
2	LHR7716	CLEVIS, KICK CYL.
3	LHR7717-001	EYE, LIFT CYL.



SECTION 4

Fairmont Tamper RTW TH2170





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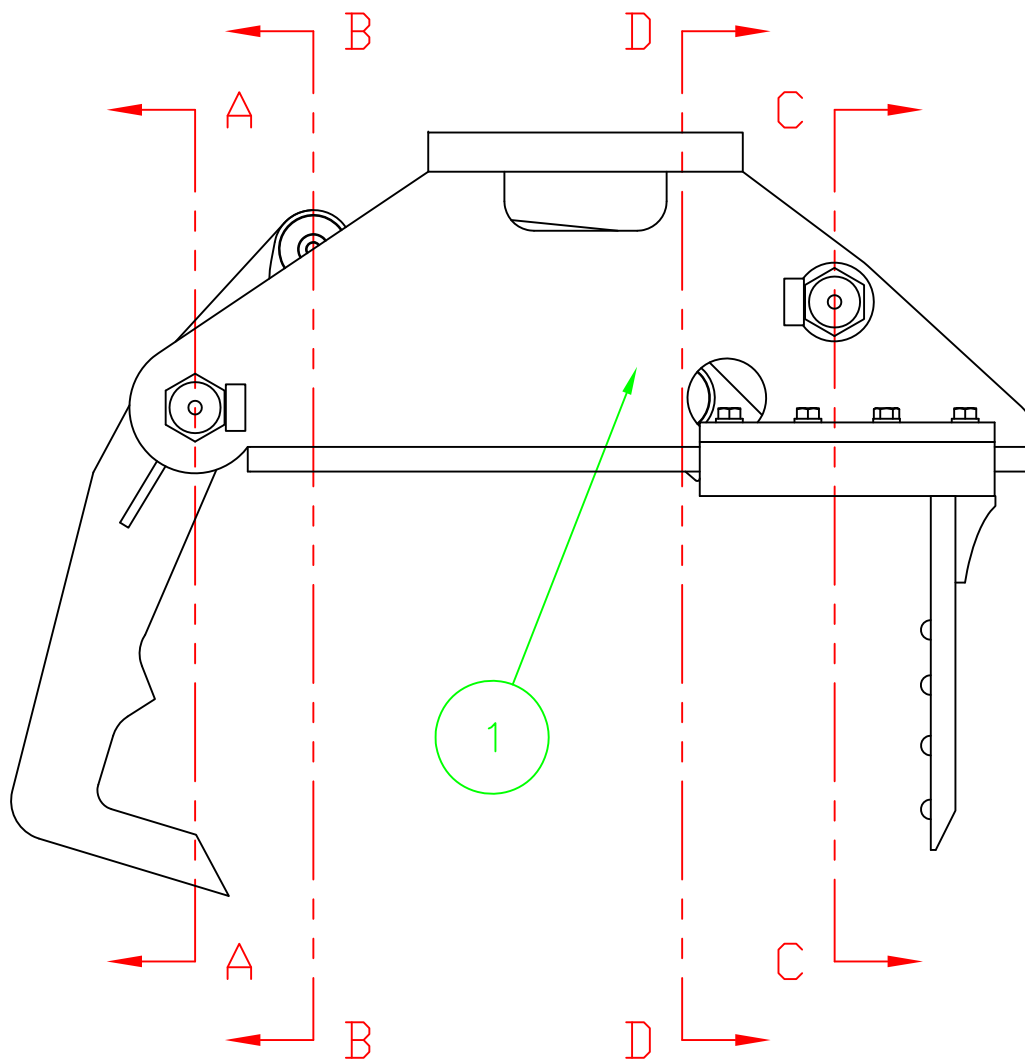
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FAX: (307) 686-1646

RTW TH2170 TIE CRANE HEAD

PART #: LHR0370

SHEET: 1 OF 8

DWG. #: LHR370





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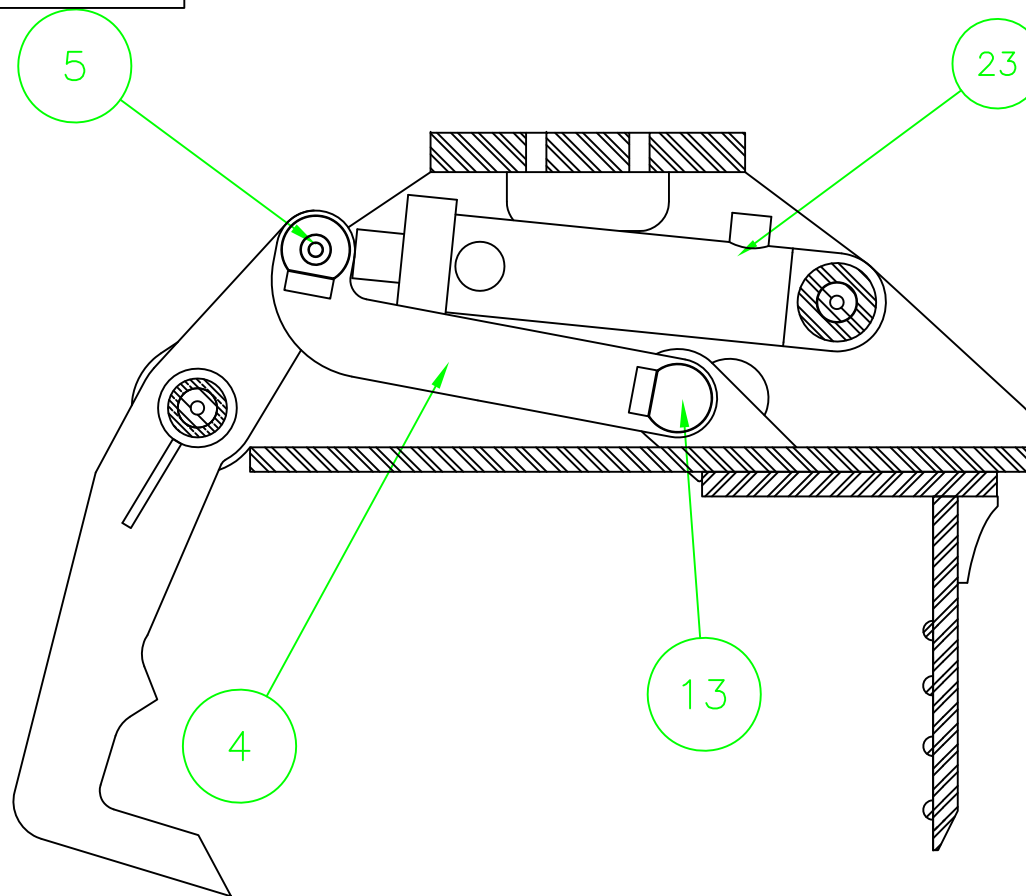
TEL: (307) 682-7238
FAX: (307) 686-1646

RTW TH2170 TIE CRANE HEAD

PART #: LHR0370

SHEET: 2 OF 8

DWG. #: LHR370





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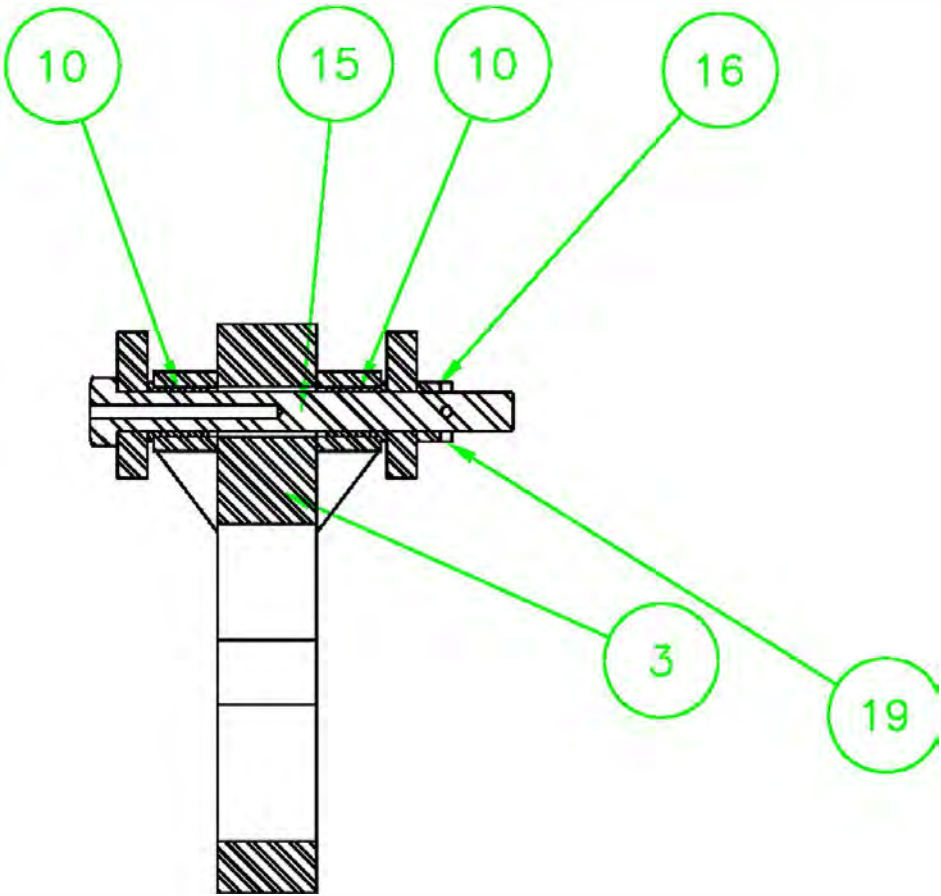
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RTW TH2170 TIE CRANE HEAD

PART #: LHR0370

SHEET: 3 OF 8

DWG. #: LHR370



SECTION A-A



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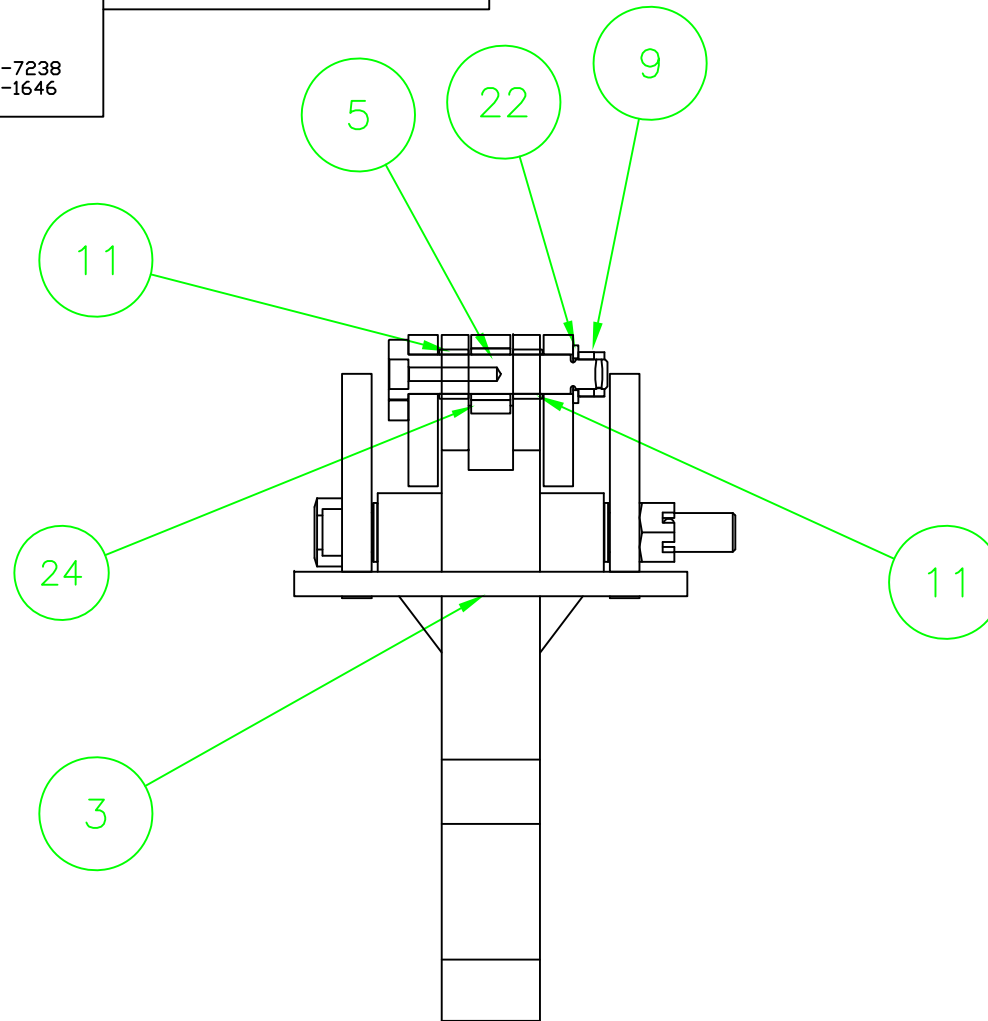
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RTW TH2170 TIE CRANE HEAD

PART #: LHR0370

SHEET: 4 OF 8

DWG. #: LHR370



SECTION B-B



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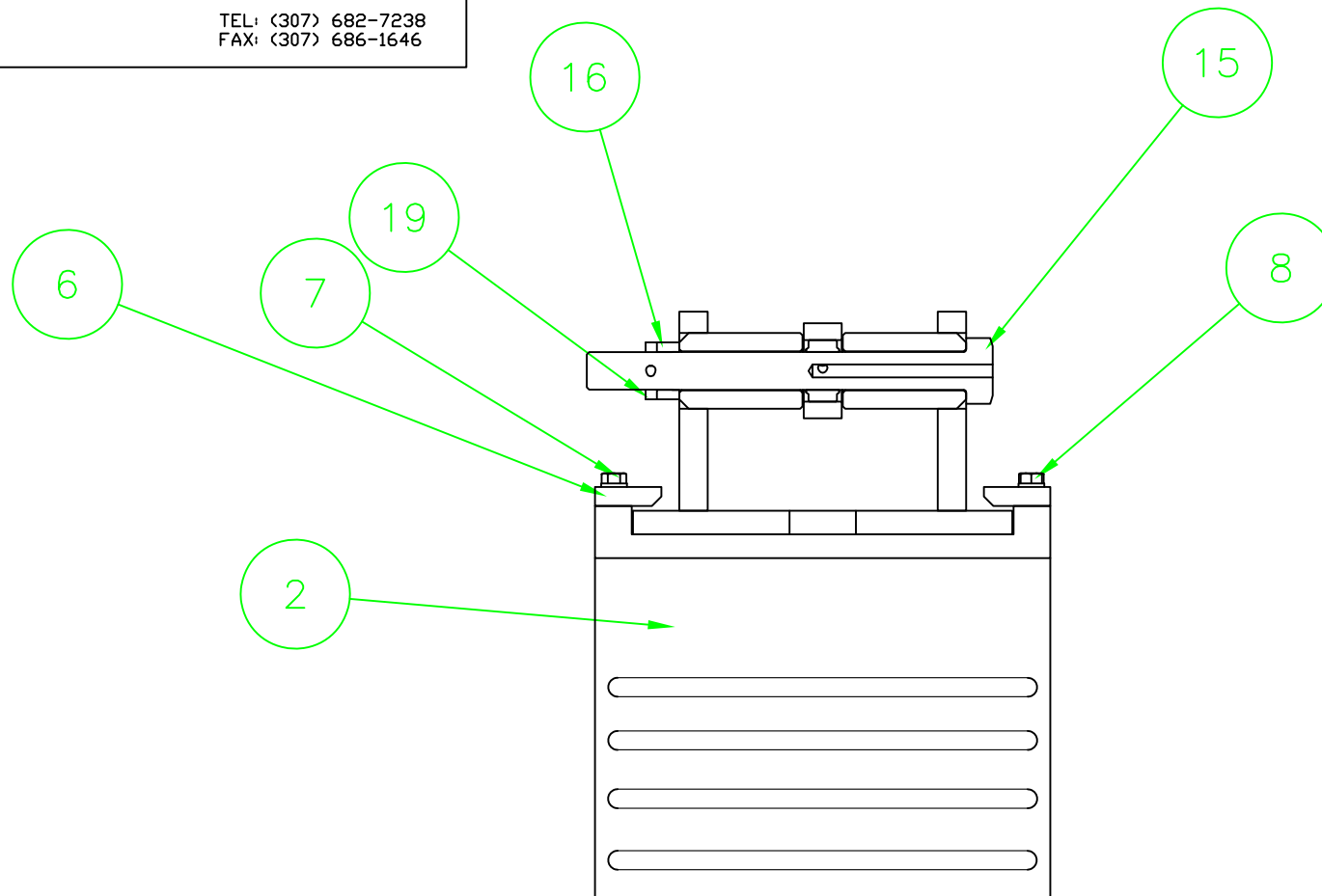
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RTW TH2170 TIE CRANE HEAD

PART #: LHR0370

SHEET: 5 OF 8

DWG. #: LHR370



SECTION C-C



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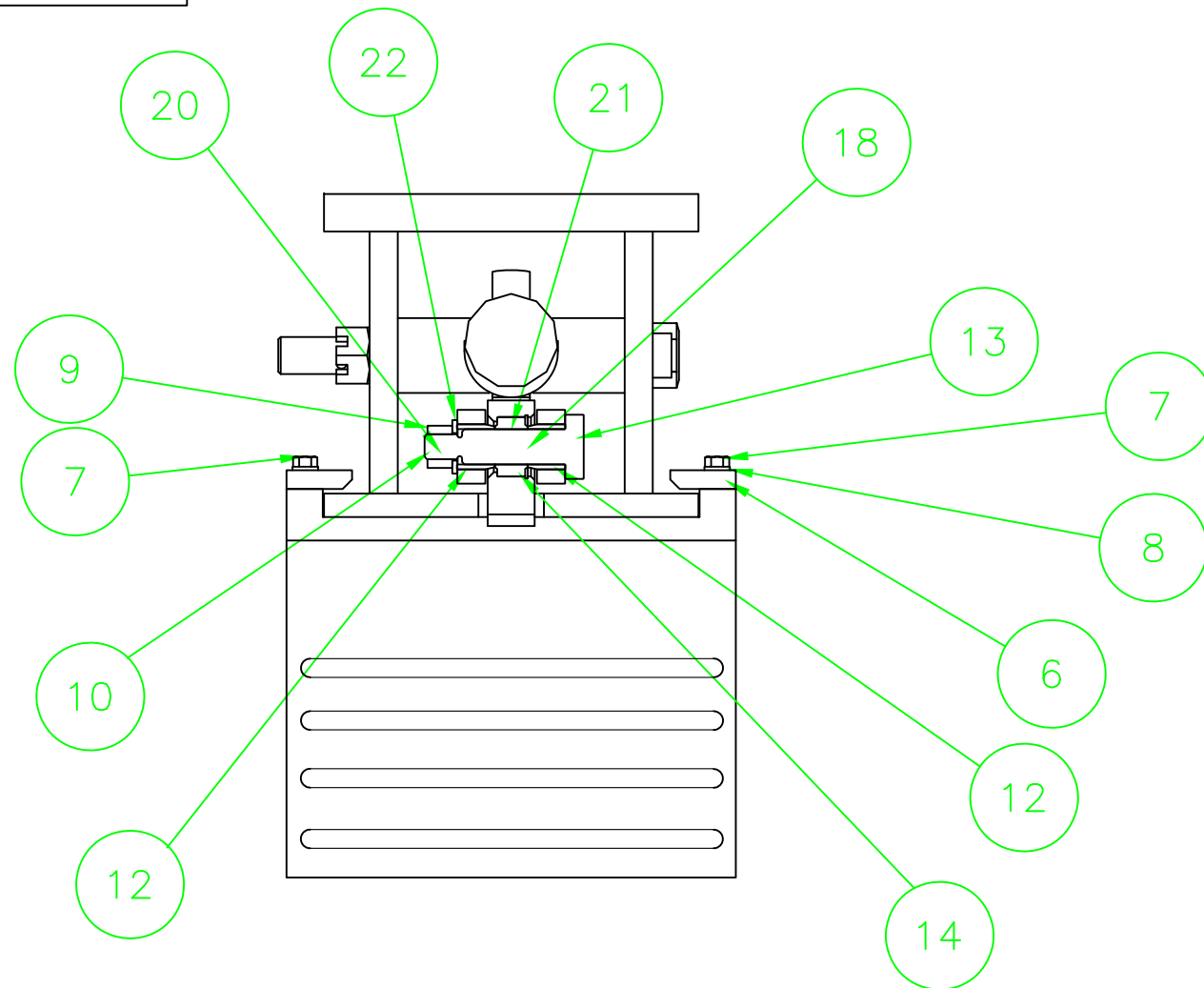
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RTW TH2170 TIE CRANE HEAD

PART #: LHR0370

SHEET: 6 OF 8

DWG. #: LHR370



SECTION D-D



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RTW TH2170 TIE CRANE HEAD

PART #: LHR0370

SHEET: 7 OF 8

DWG. #: LHR370

Item	Part Number	Description	Replaces	Wt.	Price	Req'd
0	LHR0370	TIE HEAD ASSEMBLY	UNKNOWN	200.0		1
1	LHR0371	TIE HEAD FRAME	NONE	80.0		1
2	LHR0256	REAR CLAMP PLATE WELDMENT	NONE	35.0		1
3	LHR0480	GRAPPLE	NONE	35.0		1
4	LHR0264	LINK	NONE	22.0		1
5	LHR0266	GRAPPLE LINKAGE PIN	NONE	2.0		1
6	LHR0255	KEEPER PLATE	NONE	1.0		2
7	F B .38-16X1.25 GR5	3/8" UNC X 1 1/4" LG. GR. 5 BOLT	NONE			8
8	FW LOCK .375	3/8" LOCK WASHER	NONE			8
9	F NUT CSTL 0.75-10	3/4" UNC CASTLE NUT	NONE			2
10	LHR0267	GRAPPLE HINGE BUSHING	NONE	0.2		2
11	LHR0268	GRAPPLE LINKAGE BUSHING	NONE	0.2		2
12	LHR0269	BEARING SPACER	NONE	0.2		2
13	LHR0265	REAR CLAMP PLATE PIN	NONE	2.0		1
14	LHP0018	TORRINGTON SPHERICAL PLAIN BEARING	NONE	1.0		1
15	LHR0274	PIN	NONE			2
16	F NUT CSTL 1.00-8	1" UNC CASTLE NUT	NONE			2
17	LHP0202	SPIROLOX SNAP RING	NONE	0.1		1
18	COTTER .250x2.5	1/4" X 2 1/2" LG. COTTER PIN	NONE			2



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RTW TH2170 TIE CRANE HEAD

PART #: LHR0370

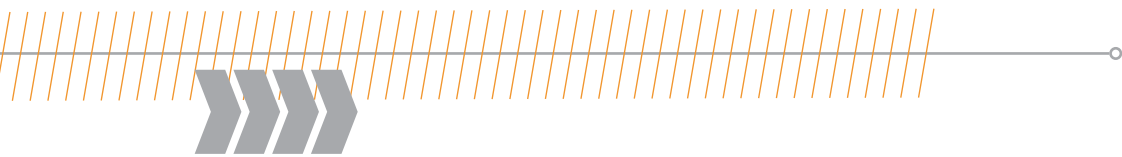
SHEET: 8 OF 8

DWG. #: LHR370

Item	Part Number	Description	Replaces	Wt.	Price	Req'd
19	F COTTER .1875x2.0	3/16" X 2" LG. COTTER PIN	NONE			2
20	F GZ0002	1/8" NPT GREASE ZERK	NONE			4
21	FW FLAT .75	3/4" FLAT WASHER	NONE			2
22	LHR0376	CLAMP CYLINDER	181851	10.0		1
23	LHR0369	CYLINDER BUSHING	UNKNOWN	0.1		1
24						
25						

SECTION 4

Fairmount Tamper D-Clipper





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FAIRMONT TAMPER D-CLIPPER HYDRAULIC DRIVE MOTOR SPROCKET

PART #: LHR0277

SHEET: 1 OF 1

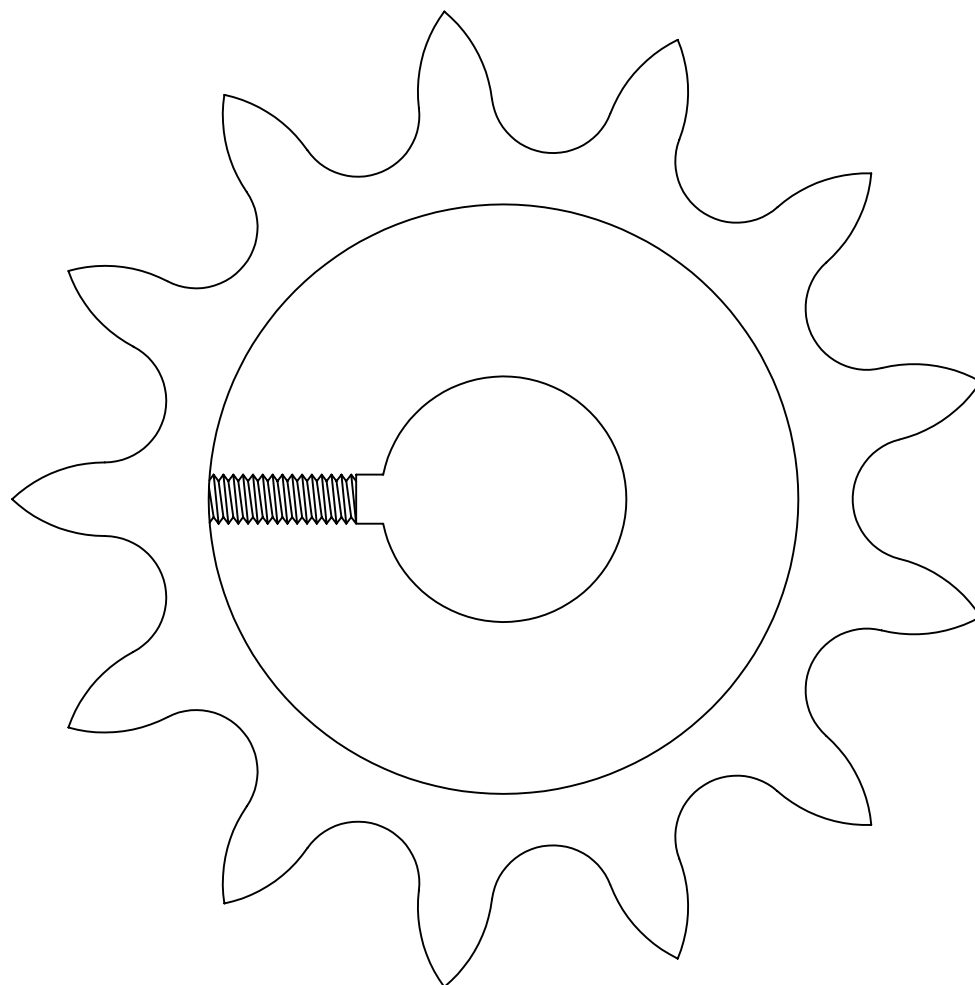
DWG. #: LHR277

REV. #: 000

DRAWN BY: TW

DATE: 8/19/98

REPLACES: 03625005021



MARTIN PART # 80BS13HT 1 1/4



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ROD ASSEMBLY

PART# **LHR0278**

SHEET 1 OF 1

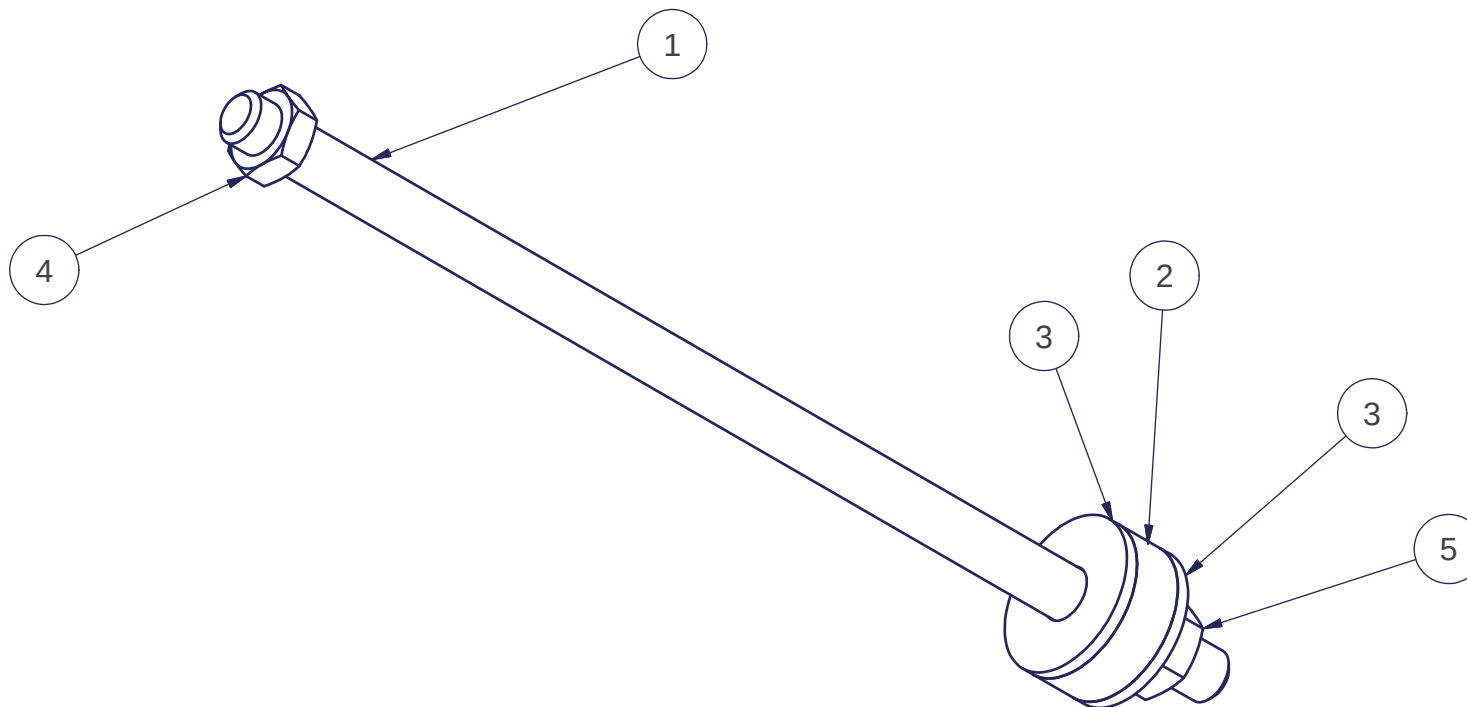
FILE ID: LHR0278.idw

REV

DRAWN BY: tallee

DATE 9/26/2003

REPLACES:



Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	LHR0279	ROD		5.3	1
2	LHR0281	COMPRESSION WASHER		.3	1
3	LHR0280	WASHER		.1	2
4	F NUT JAM 1.00-14	NUT 1"-14 JAM NUT			1
5	F NUT NYLOC 1.00-14	NUT 1"-14 NYLOC			1

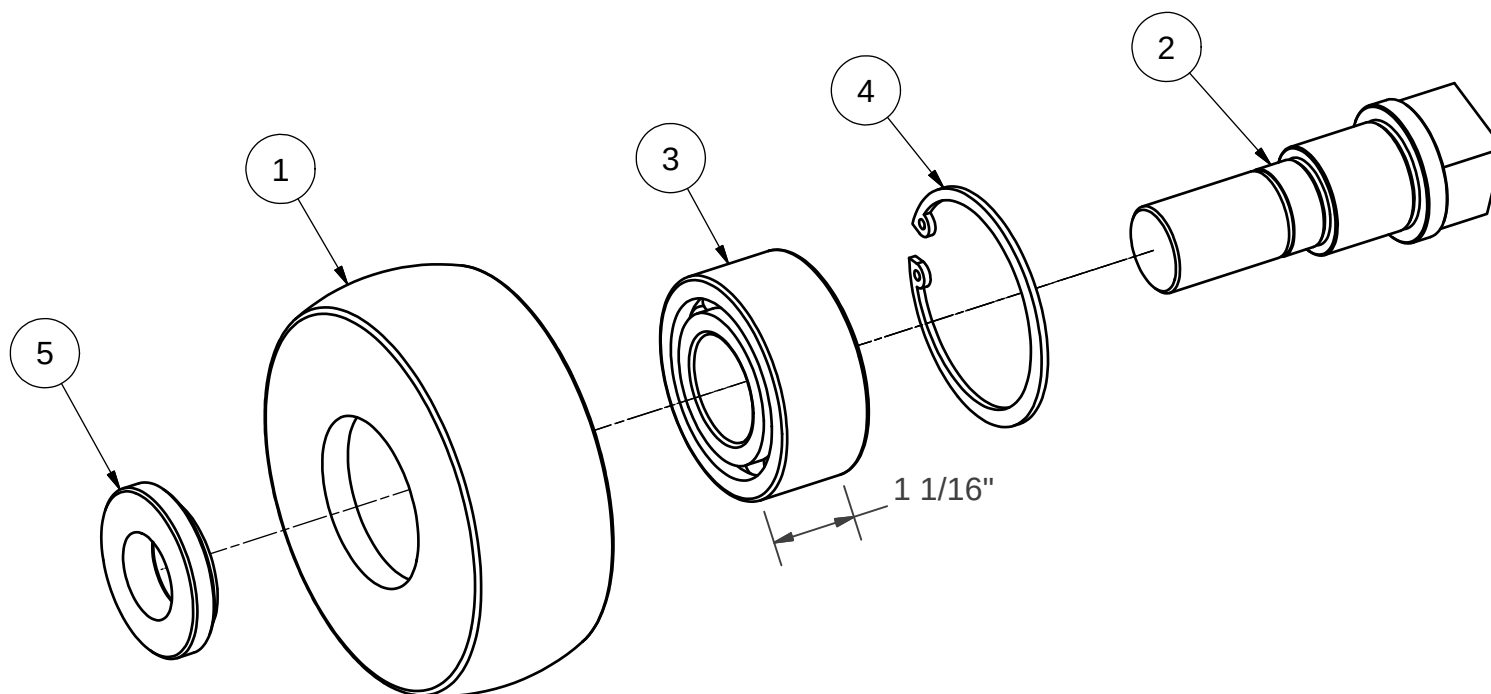


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FAIRMONT TAMPER D-CLIPPER
WORK HEAD
ROLLER ASSEMBLY

PART# LHR0619-001	SHEET 1 OF 2
FILE ID: LHR0619-001.idw	REV
DRAWN BY: BSchroyer	DATE 3/26/2003
REPLACES:	



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT (lbs)
1	1	LHR0193-001	ROLLER	5.1
2	1	LHR0617	BEARING SHAFT	1.0
3	1	LHP0056	DBL RW ANG CONT BRG	0.5
4	1	LHP0199	HO244 SNAP RING	0.1
5	1	LHR0618-001	WASHER	0.2



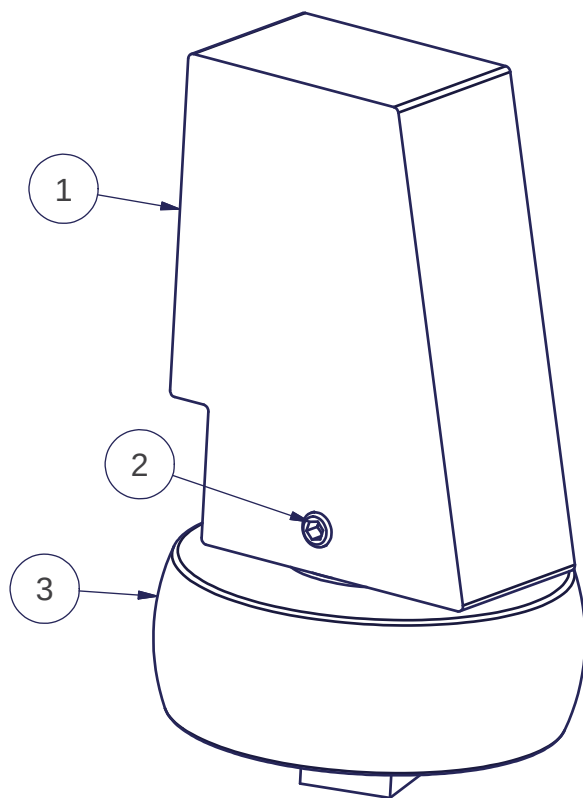
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FAIRMONT TAMPER D-CLIPPER

ROLLER MOUNT WELDMENT

PART# LHR0772	SHEET 1 OF 1
FILE ID: LHR0772.idw	REV 000
DRAWN BY: BSchroyer	DATE 4/21/2003
REPLACES:	



Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	LHR0224-001	WELD ON ROLLER MOUNT	G2650Y01	9 lbs	1
2	F SHSS .375-16X 0.75	SOCKET HEAD SET SCREW			1
3	LHR0619-001	ROLLER ASSEMBLY	G2613Y01	7 lbs	1



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MCKAY CLIP REMOVER/INSERTER
WORK HEAD
ARM ASSY - LH

PART# **LHR0881**

SHEET 1 OF 1

FILE ID: LHR0881.idw

REV

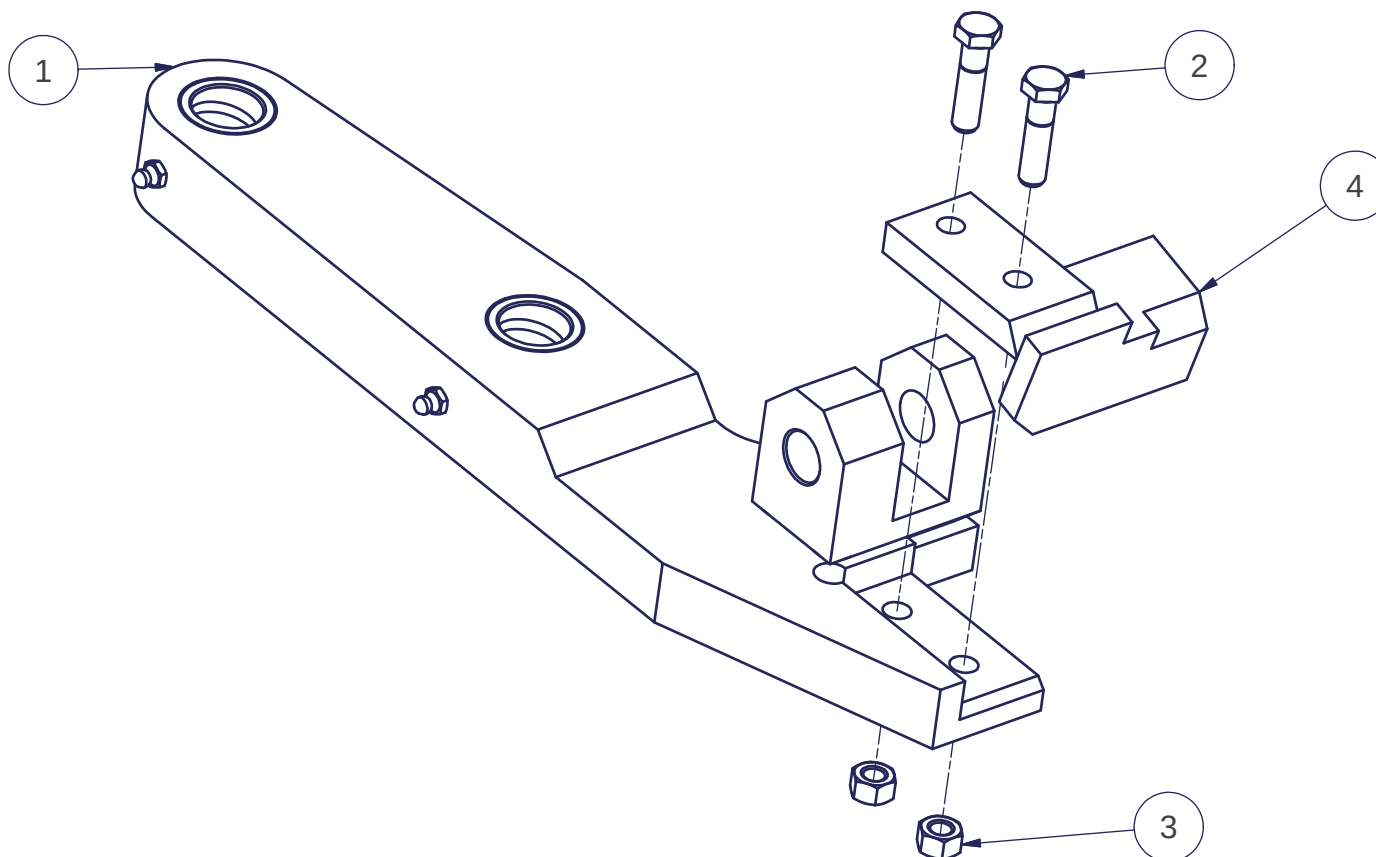
DRAWN BY: tallee

DATE 6/24/2002

REPLACES:

Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	LHR0120	ARM	C1589AB	17.3	1
2	F B .375-16X 1.5	BOLT 3/8 X 1 1/2 GR5 UNC			2
3	F NUT NYLOC .375-16	NUT 3/8"-16 NYLOC UNC			2
4	LHR0100CB	PINCH BLOCK - LH	C3819WAB	2	1





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MCKAY CLIP REMOVER
WORK HEAD
ARM ASSY - RH

PART# **LHR0882**

SHEET 1 OF 1

FILE ID: LHR0882.idw

REV

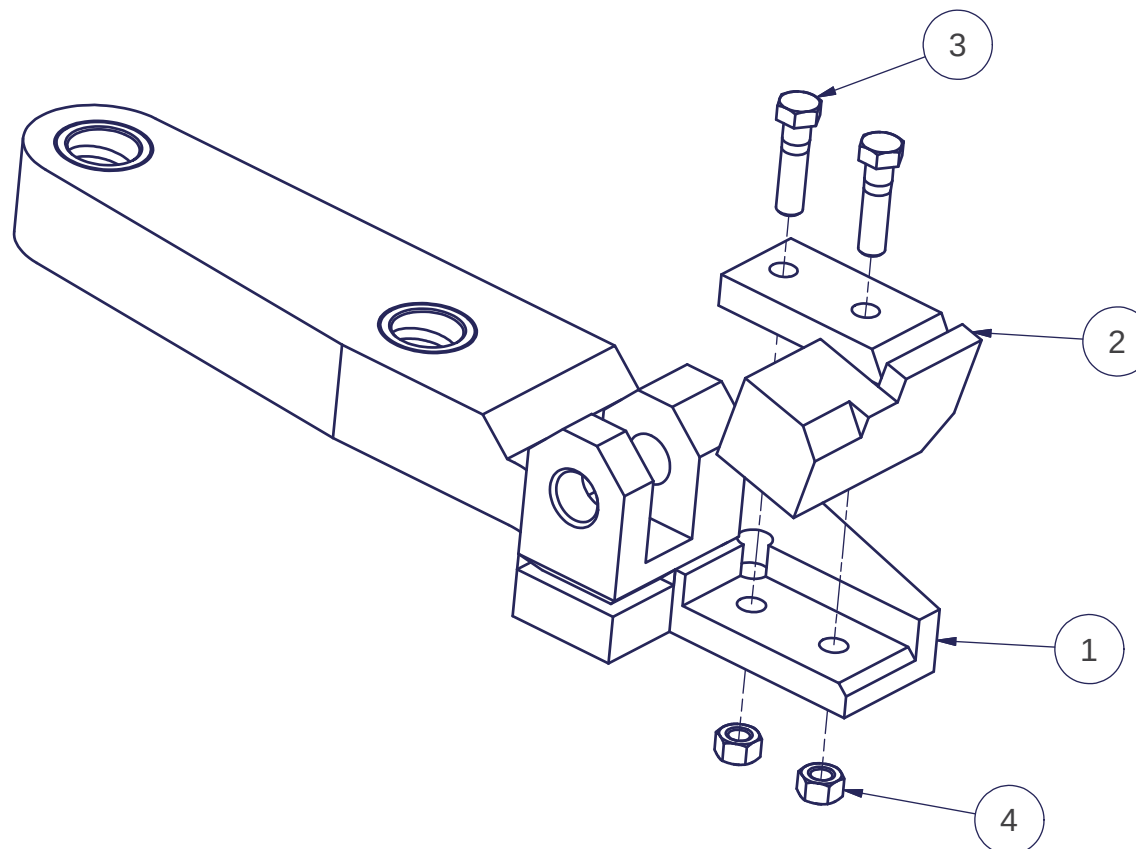
DRAWN BY: tallee

DATE 6/24/2002

REPLACES:

Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	LHR0119	SQUEEZE BLOCK ARM - RH	C1589AA	17.3	1
2	LHR0100CA	PINCH BLOCK - RH	C3819WAA	2	1
3	F B .375-16X 1.5	BOLT 3/8 X 1 1/2 GR5 UNC			2
4	F NUT NYLOC .375-16	NUT 3/8"-16 NYLOC UNC			2





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FAIRMONT TAMPER D-CLIPPER

RAIL ROLLER ASSY

PART# **LHR1033**

SHEET 1 OF 1

FILE ID: LHR1033.idw

REV

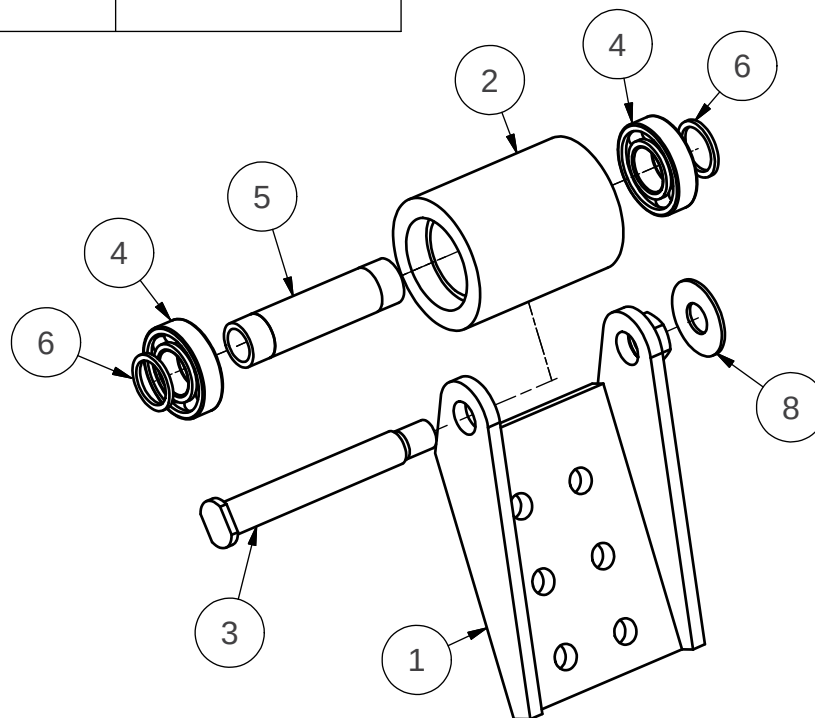
DRAWN BY: BSchroyer

DATE 4/4/2003

REPLACES: C9156XAA

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION	OEM #
1	1	LHR1032	ROLLER FRAME	C9157XAA
2	1	LHR1031	ROLLER	C9159Y01
3	1	LHR1030	AXLE	C9160Y01
4	2	LHP5080	BEARING	L40213
5	1	LHR1029	INSULATING BUSHING	Z752202-01-004
6	2	LHR1028	INSULATING WASHER	Z762124-001
8	1	FW FLAT .75	Washer B	A0059008
9	1	ANSI B18.2.2 - 3/4 - 16	Hex Jam Nut	





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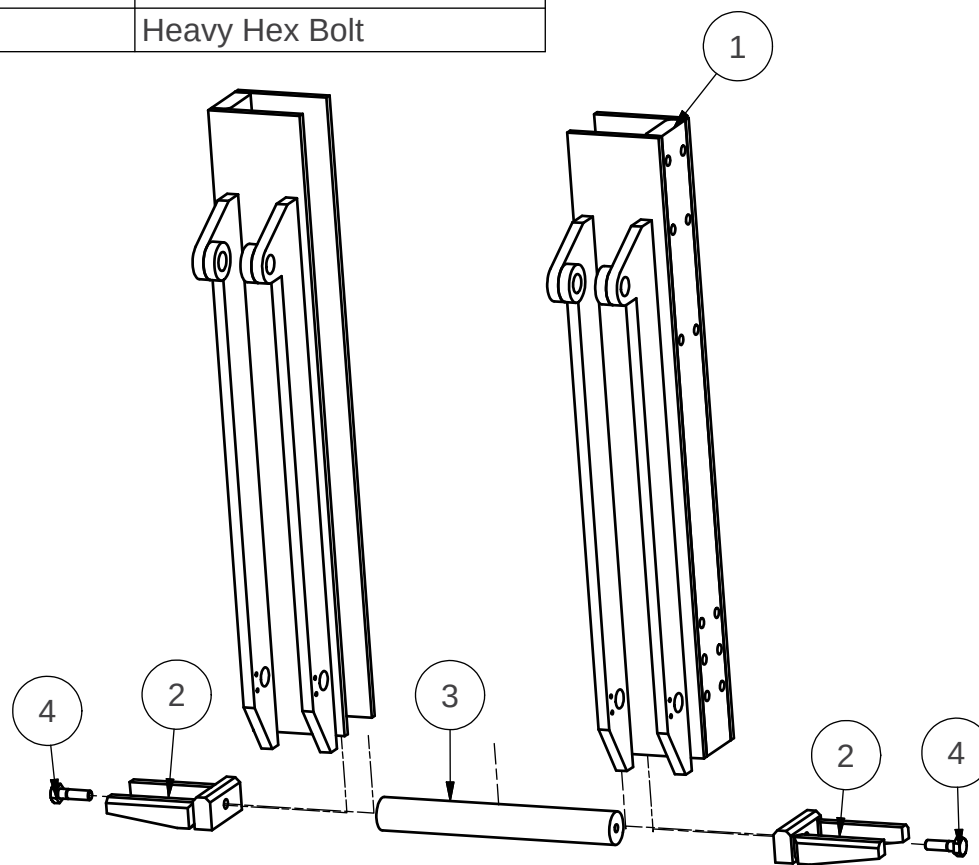
FAIRMONT TAMPER D-CLIPPER

GUIDE FRAME ENHANCEMENT

PART# LHR1034	SHEET 1 OF 2
FILE ID: LHR1034.idw	REV
DRAWN BY: BSchroyer	DATE 4/23/2003
REPLACES: C9186 WAA	

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	LHR1034 ORIGINAL	EXISTING GUIDE FRAME
2	2	LHR1034 ROD BASE	ROD BASE
3	1	LHR1034 BASE ROD	ROD
4	2	F B .50-13X 1.5	Heavy Hex Bolt





SECTION 5

Jackson

3300 PUP Tamper

6700 Tamper

05

SECTION 5

Jackson 3300 PUP Tamper





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JACKSON 3300 DRIVE AXLE ASSEMBLY

PART #: LHR0570ASY

SHEET: 1 OF 2

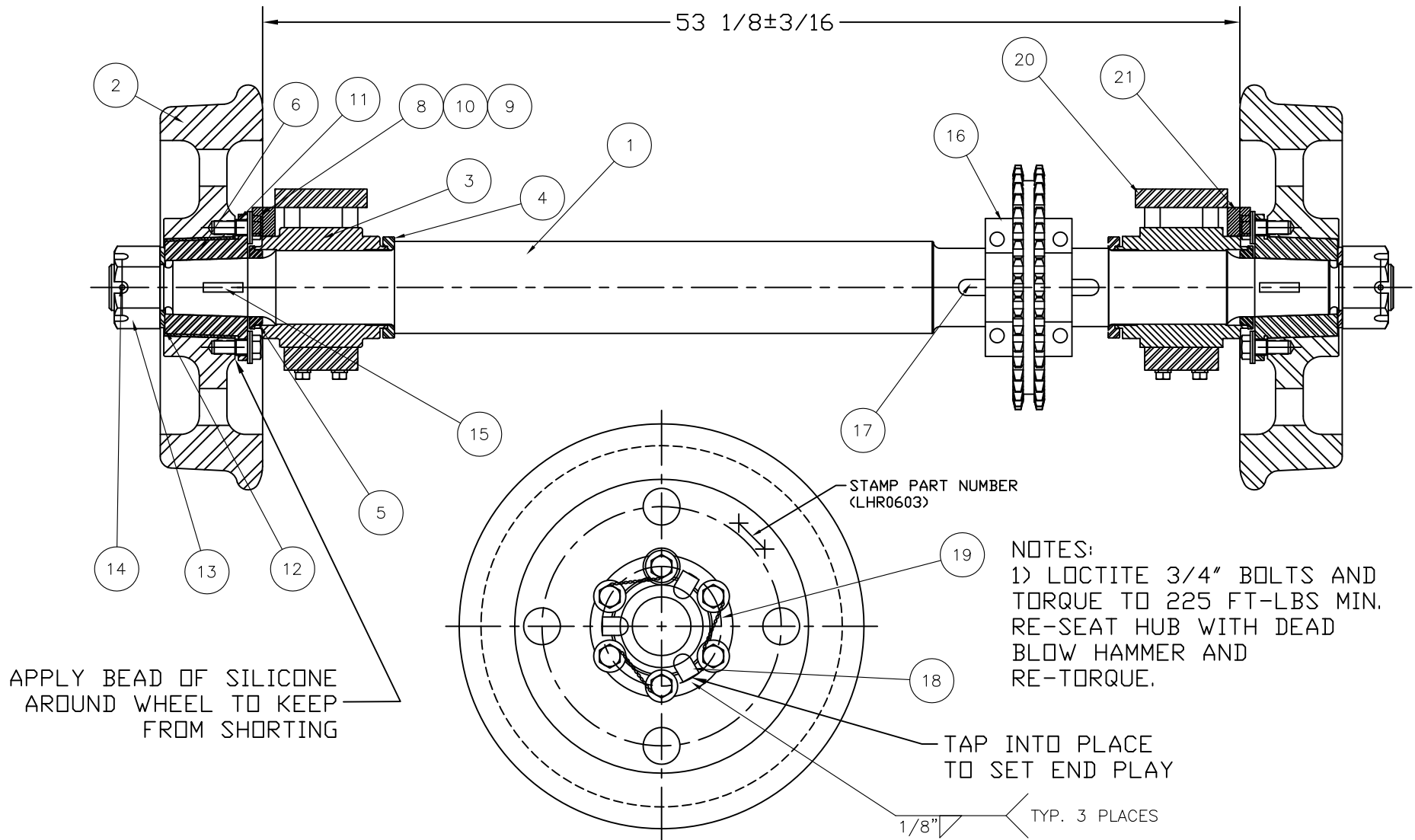
DWG. #: LHR0570ASY

REV. #: 000

DRAWN BY: TA

DATE: 1/31/1999

REPLACES: 431743-1



NOTES:
1) LOCTITE 3/4\"



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JACKSON 3300 DRIVE AXLE ASSEMBLY

PART #: LHR0570ASY	SHEET: 2 OF 2
DWG. #: LHR0570ASY	REV. #: 000
DRAWN BY: TA	DATE: 1/31/1999
REPLACES: 431743-1	

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0446	SHAFT	412704-1		1
2	LHR0603-001	WHEEL	412703-1		2
3	LHR0634	BEARING ASSEMBLY	350973-1		2
4	LHR0568	SPACER - INNER	223193-1		2
5	LHR0569	SPACER - OUTER	223192-1		2
6	LHR0571	HUB - INSULATED	412705-1		2
7	LHR0720	BEARING CAP			2
8	LHR0635	3/4"-16 UNF X 2" LG GR8 BOLT	251064-1		12
9	LHR0638	WASHER - STEEL			12
10	LHR0632	WASHER - INSULATING	223307-1		12
11	LHR0633	BUSHING - INSULATING	220559-1		12
12	LHR0636	WASHER	113287-1		2
13	F NUT CSTL 2.5-4.0	2 1/2" UNC CASTLE NUT	152809-1		2
14	F COTTER PIN .25X5.0	1/4" X 5" COTTER PIN	152716-1		2
15	LHP0028	WOODRUFF KEY	5911		2
16	LHR0118A	SPROCKET	253830-1		1
17	KEY 1018 0.875	KEY-SQ .875" X 4.62"	216093-37		1
18	LHR0637	SHIM	223620-1		6
19	LHC00900	14 GAUGE MECHANIC WIRE			1
20	LHR0490-001	BEARING HOUSING			2



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JACKSON 6700/3300 WORK HEAD MAINTAINANCE TOOL KIT

PART #: LHR0665

SHEET: 1 OF 1

DWG. #: LHR0665

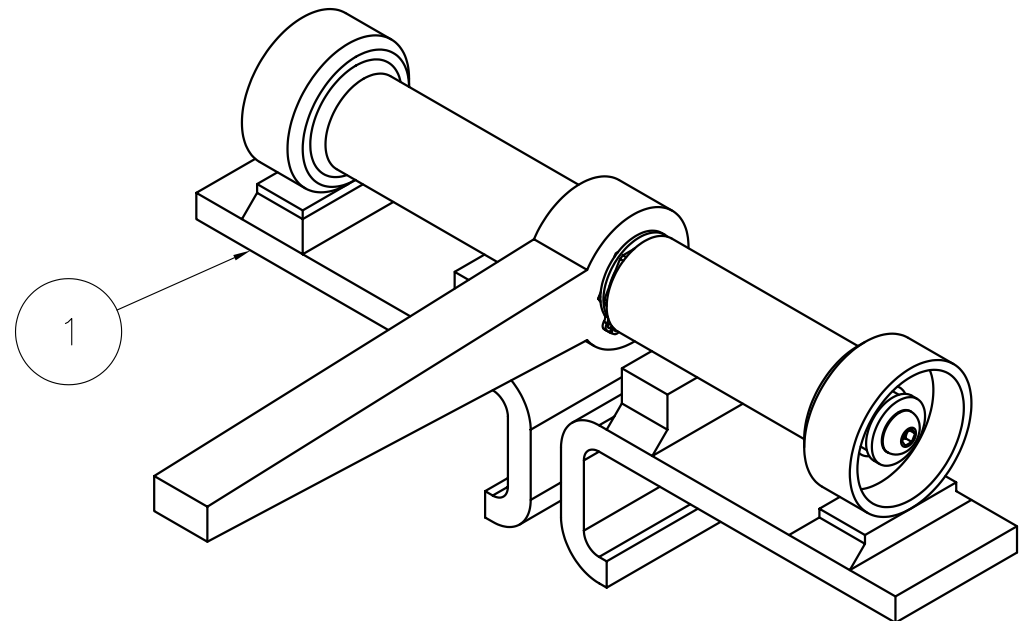
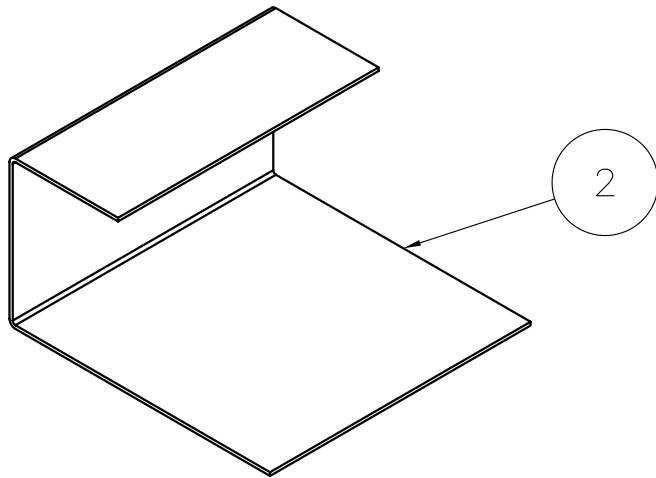
REV. #: 000

DRAWN BY: WDS

DATE: 6/12/2000

REPLACES:

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0655	SPREADER ASSEMBLY			1
2	LHR0661	SNUBBER TOOL			1
3	LHP0108	C-CLAMP			2





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JACKSON 6700/3300 WORK HEAD SPREADER BAR

PART #: LHR0655

SHEET: 1 OF 1

DWG. #: LHR0655

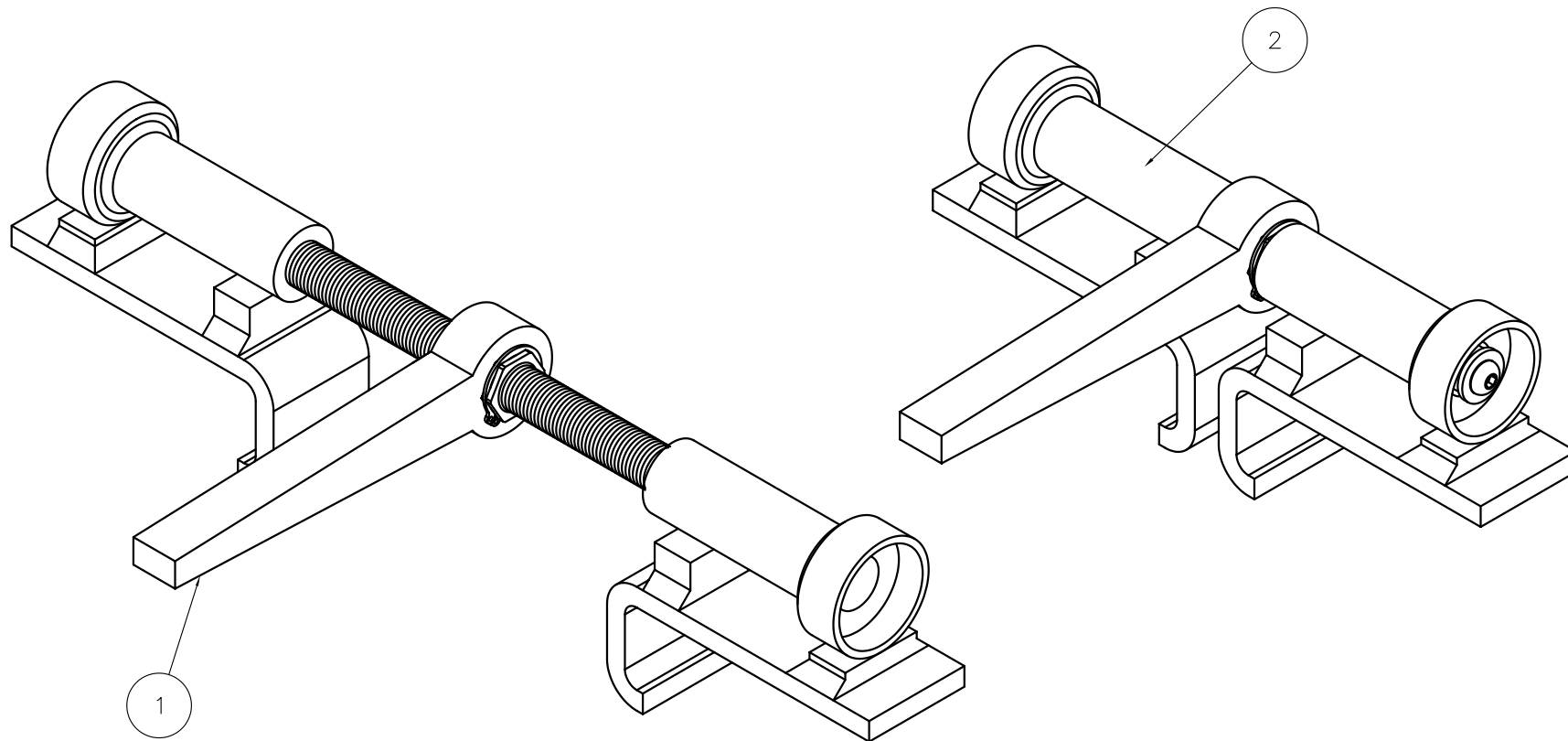
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DATE: 6/29/2000

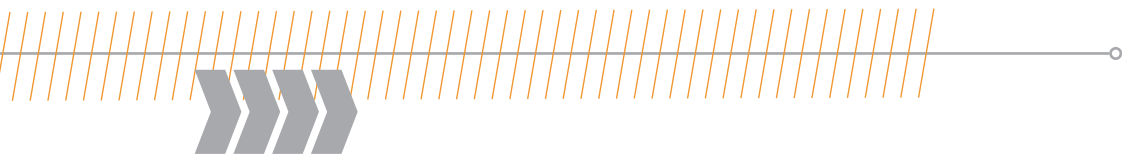
REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Price	Req'd
1	LHP0271	REVERSABLE RATCHET				1
2	LHR0666	SPREADER KIT				1



SECTION 5

Jackson 6700 Tamper





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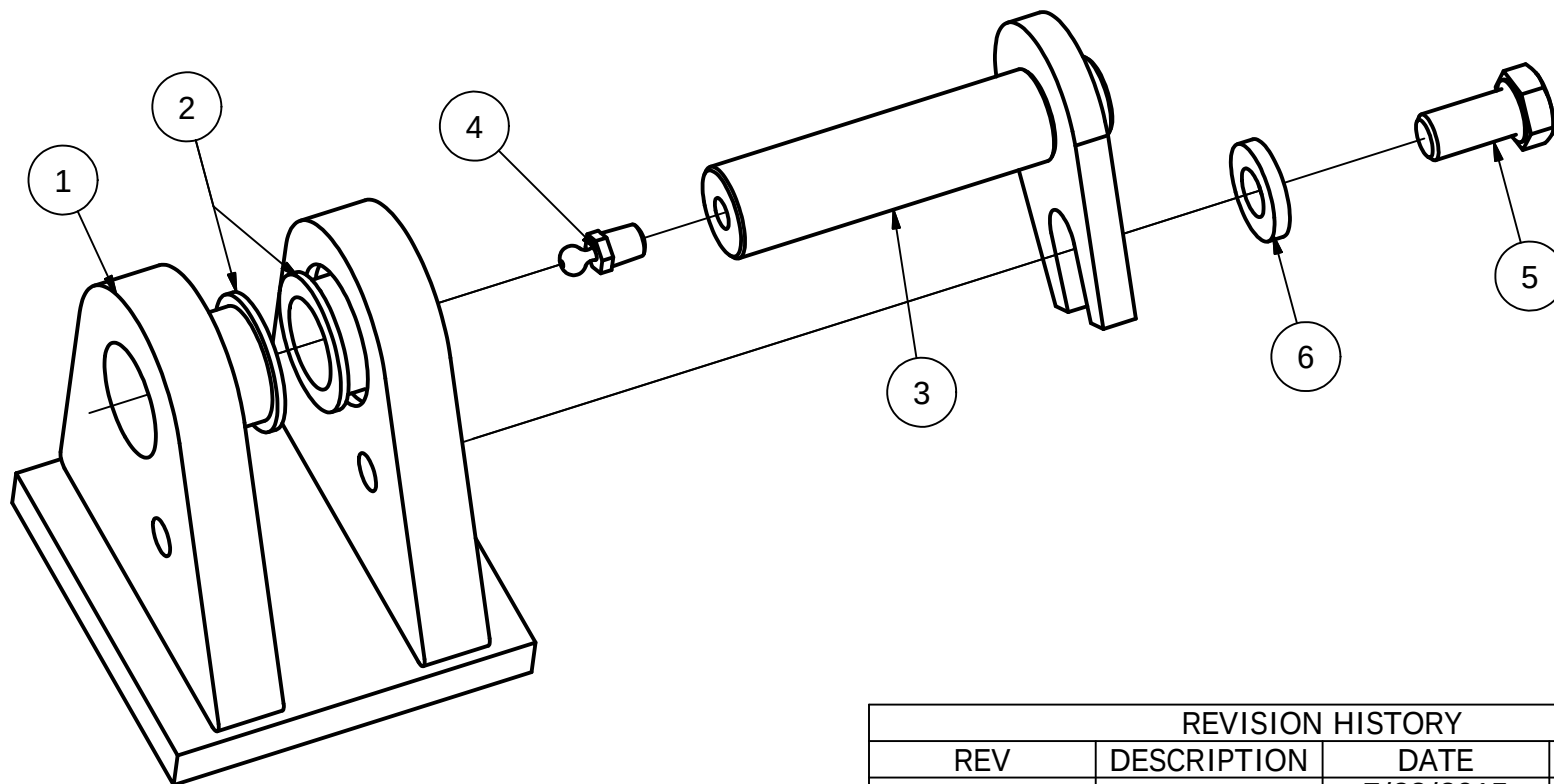
JACKSON 6700

BRACKET, UPPER ASSY

PART# LHR0202ASY	SHEET 1 OF 1
FILE ID: LHR0202ASY.idw	REV 1
DRAWN BY: DVANSICKLE	DATE 7/23/2015
REPLACES: 217879	

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHR0202	UPPER BRACKET
2	2	LHR0206	BRACKET BUSHING
3	1	LHR0204	PIN, CYL. BRACKET
4	1	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT
5	1	LHP3679	CAPSCREW, HEX HD. (1/2)
6	1	LHP5264	WASHER, PLAIN HEAVY FLAT - B (1/2)



REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
1	REDRAWN	7/23/2015	DAV



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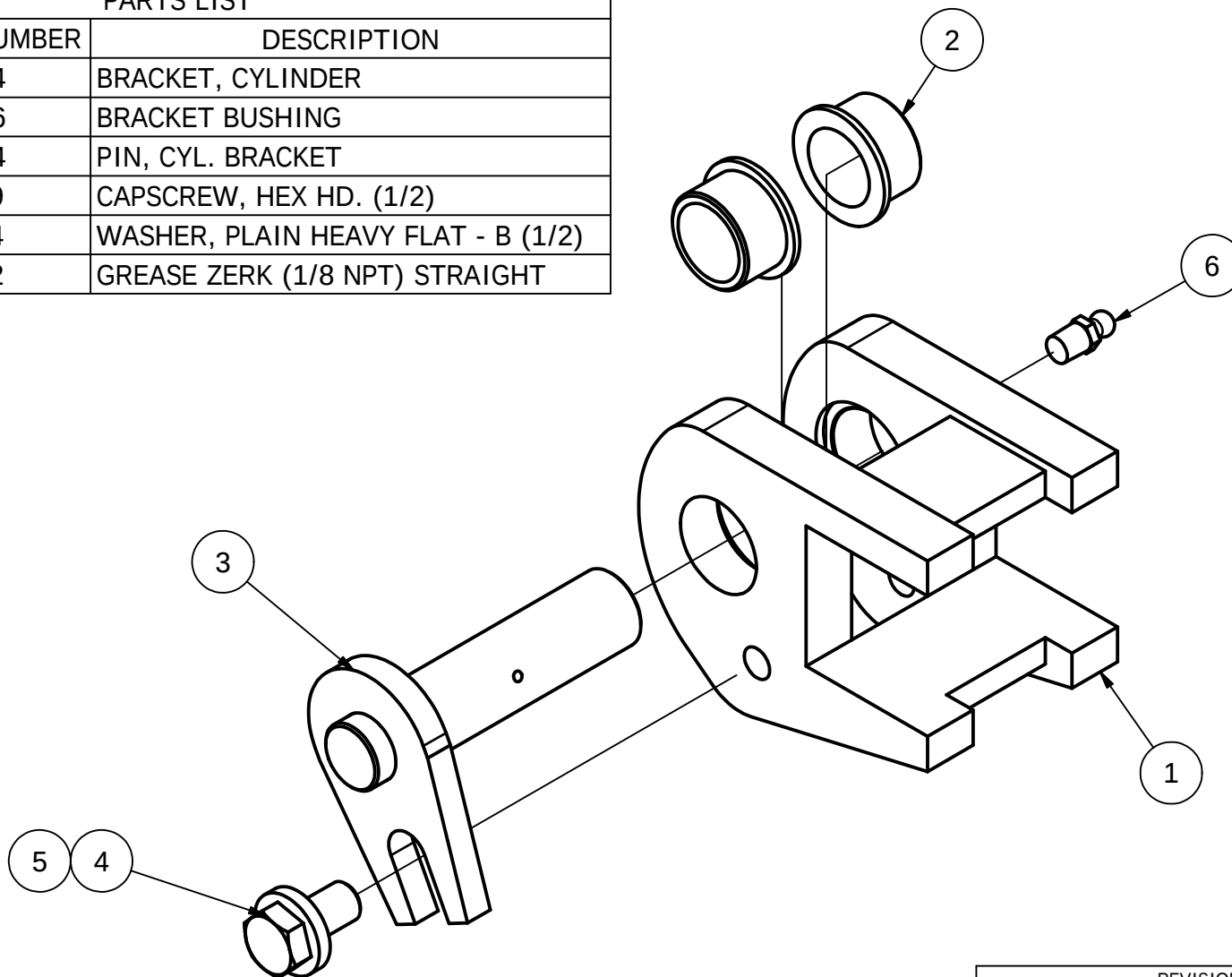
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LOWER MOUNTING EAR ASSY 6700

PART# LHR0234ASY	SHEET 1 OF 1
FILE ID: LHR0234ASY.idw	REV 1
DRAWN BY: DVANSICKLE	DATE 7/23/2015
REPLACES: 116717	

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHR0234	BRACKET, CYLINDER
2	2	LHR0206	BRACKET BUSHING
3	1	LHR0204	PIN, CYL. BRACKET
4	1	LHP3679	CAPSCREW, HEX HD. (1/2)
5	1	LHP5264	WASHER, PLAIN HEAVY FLAT - B (1/2)
6	1	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT



REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
1	REDRAWN WITH PARTS LIST	7/23/2015	DAV



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JACKSON 6700 BASKET SHAFT ASSEMBLY

PART #: **LHR0474-001**

SHEET: 1 OF 2

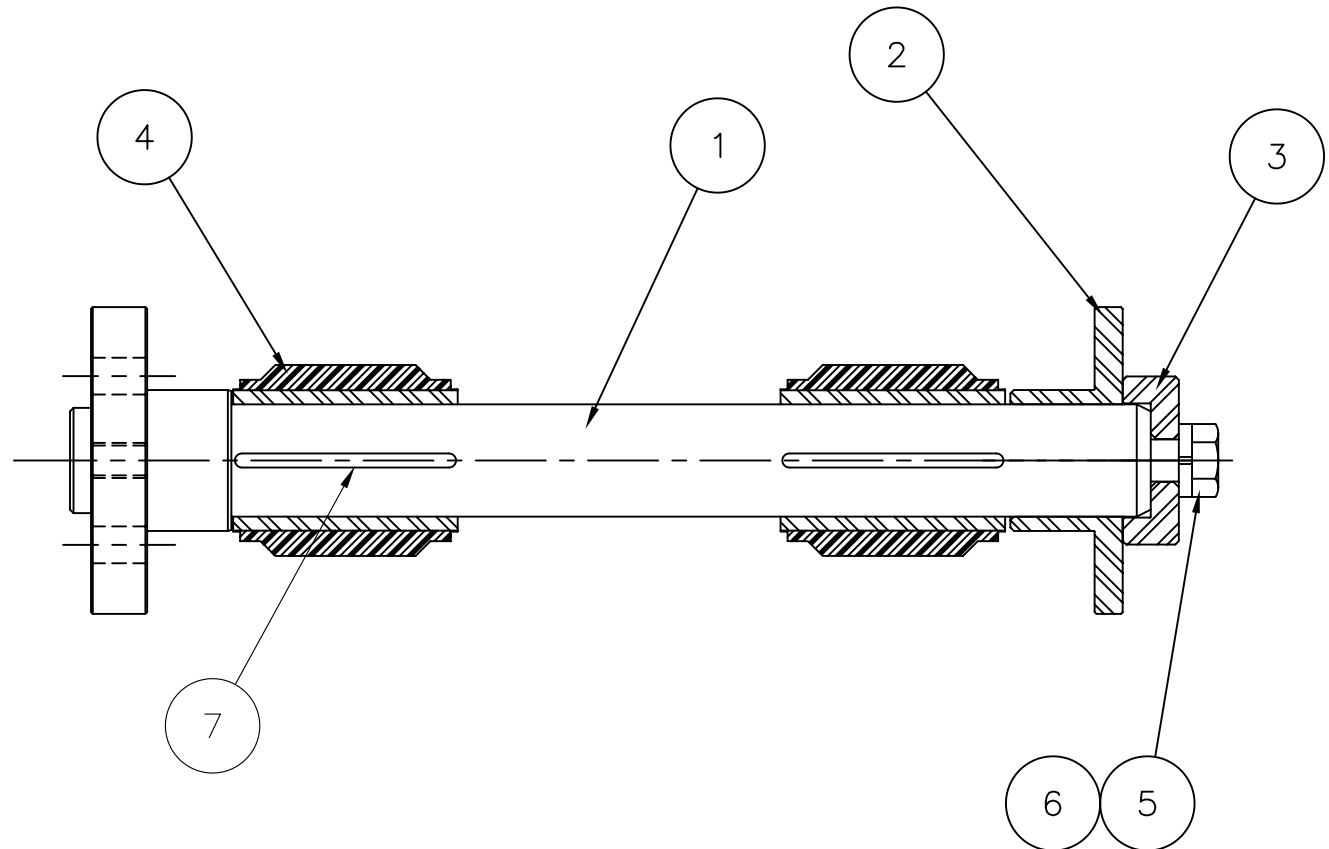
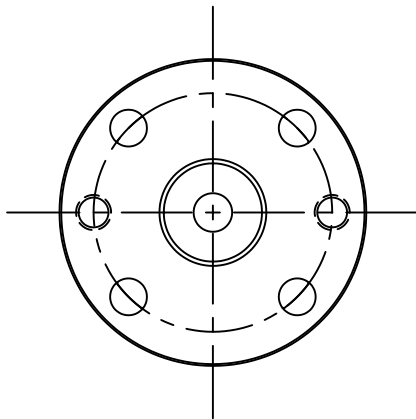
DWG. #: LHR0474-001

REV. #: 000

DRAWN BY: TA

DATE: 11/8/1999

REPLACES: —





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JACKSON 6700 BASKET SHAFT ASSEMBLY

PART #: LHR0474

SHEET: 2 OF 2

DWG. #: LHR0474-001

REV. #: 000

DRAWN BY: TA

DATE: 11/8/1999

REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0479	SHAFT	UNKNOWN		1
2	LHR0482	RETAINER	UNKNOWN		1
3	LHR0484	COLLAR	UNKNOWN		1
4	LHP0147	LORD MOUNT	UNKNOWN		2
5	F B 3/4"—16X 2.25	3/4" X 2 1/4" LG GRADE 5 BOLT	UNKNOWN		1
6	F W FLAT .75	3/4" LOCK WASHER	UNKNOWN		1
7	LHR0567	KEY	UNKNOWN		2



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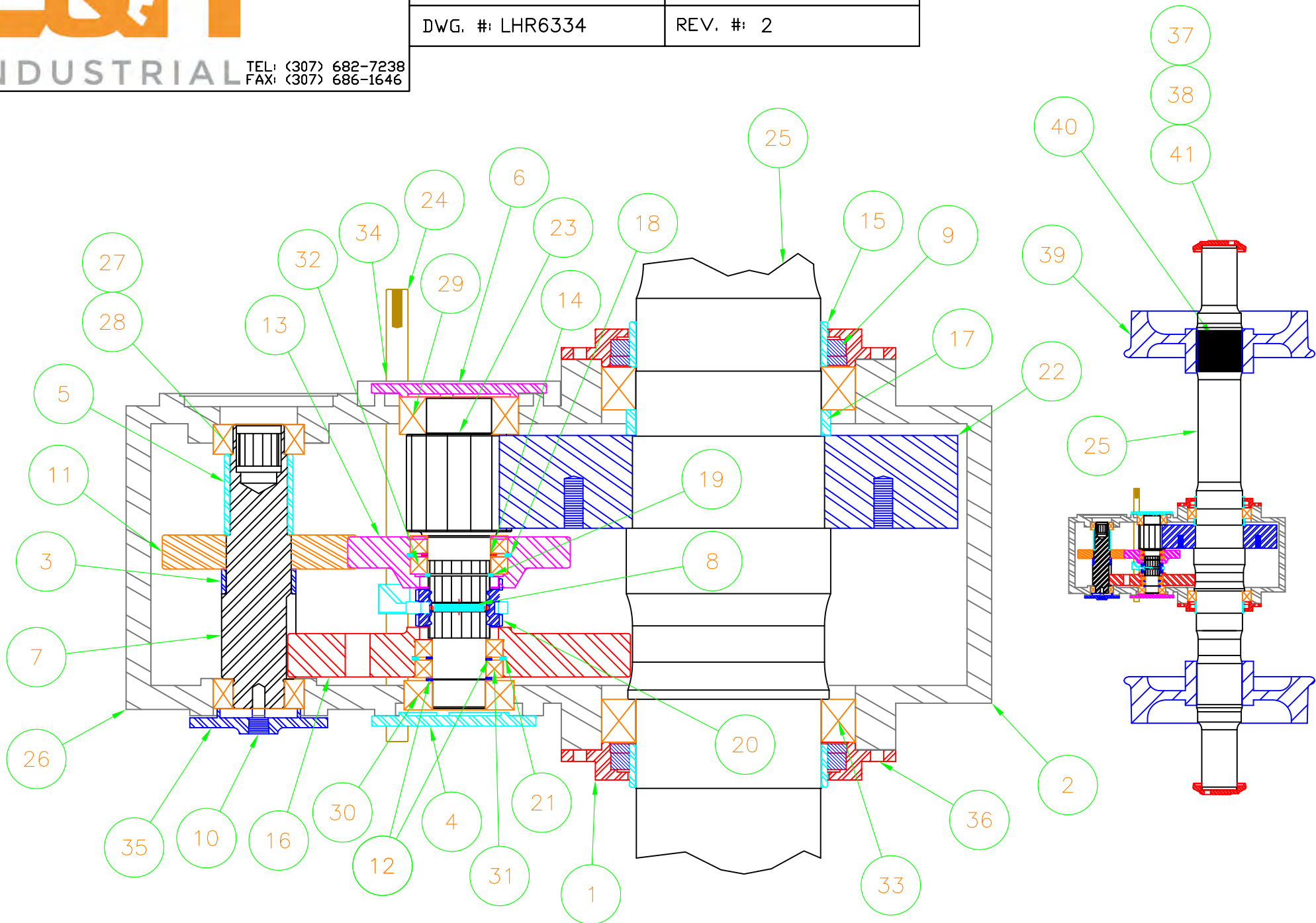
JACKSON 6700 DURST REAR END ASSEMBLY

PART #: LHR6334

SHEET: 1 OF 3

DWG. #: LHR6334

REV. #: 2





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JACKSON 6700 DURST
REAR END ASSEMBLY

PART #: LHR6334

SHEET: 2 OF 3

DWG. #: LHR6334

REV. #: 2

Item	Part Number	Description	Wt.	Req'd
1	LHR6318	BULL GEAR SEAL RETAINER		2
2	LHR6329	LOWER CASE		1
3	LHR6305	INPUT SHAFT SLEEVE (SHORT)		1
4	LHR6316	INTERMEDIATE END CAP (SHORT)		1
5	LHR6304	INPUT SHAFT SLEEVE (LONG)		1
6	LHR6315	INTERMEDIATE END CAP (LONG)		1
7	LHR6303	INPUT SHAFT		1
8	LHP5091	SPRING AND (2) 5/16-BALL BEARING		1
9	LHP4396	SEAL #CR80010		2
10	LHR6317	INPUT SHAFT END CAP		1
11	LHR6306	INPUT GEAR		1
12	LHR6310	SPACER		2
13	LHR6308	INTERMEDIATE GEAR (56 TOOTH)		1
14	LHR6309	SPACER		1
15	LHR6301	SEAL COLLAR		2
16	LHR6311	INTERMEDIATE GEAR (81 TOOTH)		1
17	LHR6302	BULLGEAR SPACER		1
18	LHP4736	SNAP RING		1
19	LHP4737	SHAFT RING		1
20	LHR6307	SHIFTER GEAR		1
21	LHP4738	SNAP RING		1
22	LHR6314	BULL GEAR		1
23	LHR6333-001	INTERMEDIATE SHAFT		1
24	LHR6366	SHIFTING ROD, FORK AND DOWEL ASSY		1



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JACKSON 6700 DURST
REAR END ASSEMBLY

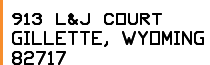
PART #: LHR6334

SHEET: 3 OF 3

DWG. #: LHR6334

REV. #: 2

Item	Part Number	Description	Wt.	Req'd
25	LHR6300	AXLE		1
26	LHR6330	UPPER CASE		1
27	LHP3735	CUP-TIMKEN BEARING		2
28	LHP3736	CONE-TIMKEN BEARING		2
29	LHP3737/LHP3738	TIMKEN BEARING CUP /CONE		1
30	LHP3740/LHP3739	TIMKEN BEARING, CUP /CONE		1
31	LHP3741	NTN BEARING		2
32	LHP3742	SKF BEARING		2
33	LHP3744/LHP3743	TIMKEN BEARING, CUP /CONE		2
34	LHP3745	SHIFTER ROD SEAL		2
35	LHP5310	3/8" - NC BOLT		14
36	LHP5225	1/2" NC BOLT		16
37	LHR6331	TIE IN LOCKING PLATE		2
38	LHR6319	TIE IN PLATE		2
39	LHR6332	WHEELS		2
40	BEL SUPERMETAL 1111 TUB	BELZONA SUPER METAL 1111		1
41	LHP6728	1"NC-2 1/4" BOLT		6



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JACKSON 6700 DURST
REAR END ASSEMBLY (MOD 7829)

PART #1 LHR6337

SHEET: 1 OF 3

DWG. #: LHR6337

REV. #: 000





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JACKSON 6700 DURST
REAR END ASSEMBLY (MOD 7829)

PART #: LHR6337

SHEET: 2 OF 3

DWG. #: LHR6337

REV. #: 000

Item	Part Number	Description	Replaces	Wt.	Price	Req'd
1	LHR6321	OUTER SEAL CARRIER				2
2	HR6336	LOWER CASE				1
3	LHR6305	INPUT SHAFT SLEEVE (SHORT)				1
4	LHR6316	INTERMEDIATE END CAP(SHORT)				1
5	LHR6304	INPUT SHAFT SLEEVE (LONG)				1
6	LHR6315	INTERMEDIATE END CAP(LONG)				1
7	LHR6303	INPUT SHAFT				1
8	UNKNOWN	SPRING AND BALL BEARING				1
9	CR80010	SEAL #CR80010				2
11	LHR6306	INPUT GEAR				1
12	LHR6310	SPACER				2
13	LHR6308	INTERMEDIATE GEAR (52 TOOTH)				1
14	LHR6309	SPACER				1
15	LHR6301	SEAL COLLAR				2
16	LHR6311	INTERMEDIATE GEAR (81 TOOTH)				1
17	LHR6302	BULLGEAR SPACER				1
18	H0375	SNAP RING				1
19	SH255	SHAFT RING				1
20	LHR6307	SHIFTER GEAR				1
21	H0334	SNAP RING				1
22	LHR6314	BULL GEAR				1
23	LHR6333	INTERMEDIATE SHAFT				1



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JACKSON 6700 DURST
REAR END ASSEMBLY (MOD 7829)

PART #: LHR6337

SHEET: 3 OF 3

DWG. #: LHR6337

REV. #: 000

Item	Part Number	Description	Replaces	Wt.	Price	Req'd
24	LHR6338	SHIFTER SHAFT ASSEMBLY				1
25	LHR6300	AXLE				1
26	LHR6320	INNER SEAL CARRIER				2
27	LHR6335	UPPER CASE				1
28	3720	CONE-TIMKEN BEARING				2
29	453X	CUP-TIMKEN BEARING				2
30	HM212010	TIMKEN BEARING				1
31	39578	TIMKEN BEARING				1
32	6011	NTN BEARING				2
33	6013	SKF BEARING				2
34	JM738249/JM738210	TIMKEN BEARING				2
38	F B .50-13X 2.0	1/2"-13 X 2"				16
39	LHR6331	TIE IN LOCKING PLATE				2
40	LHR6319	TIE IN PLATE				2
41	LHR6332	WHEELS				2
42	NB110 OR NB304-1	EPOXY PREPREG (INSULATOR)				1
43	F B 1.0-8X 2.5	1"NC-2 1/4" BOLT				6



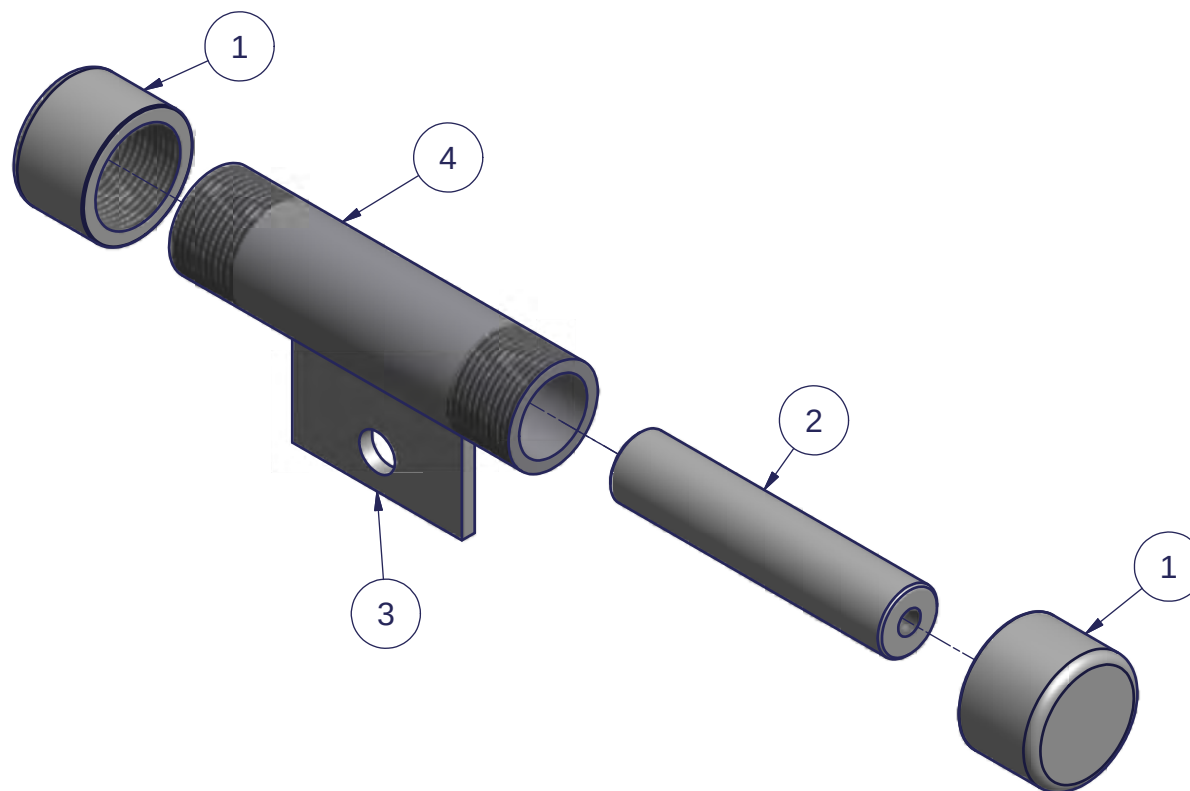
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www.lnh.net

JACKSON 6700 DURST

ADAPTER HOUSING ASSY

PART# LHR6360ASSY	SHEET 1 OF 2
FILE ID: LHR6360.idw	REV
DRAWN BY: BSchroyer	DATE 1/6/2003
REPLACES:	



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	LHR6360CAP	1 INCH CAP
2	1	LHR6359	ADAPTER
3	1	LHR6360	PLATE
4	1	LHR6360NIPPLE	1" X 5" NIPPLE



SECTION 6

Kershaw

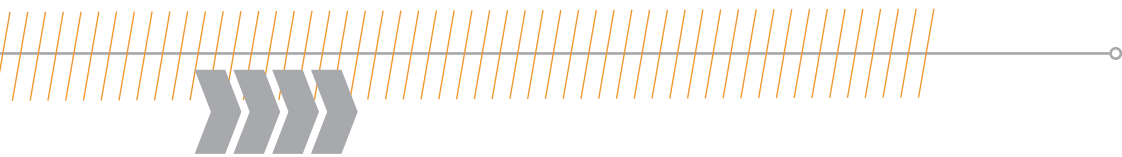
12-5 Tie Crane

12-12 Tie Crane

06

SECTION 6

Kershaw 12-5 Tie Crane





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TIE HEAD ASSEMBLY

PART #: LHR0742

SHEET: 1 OF 2

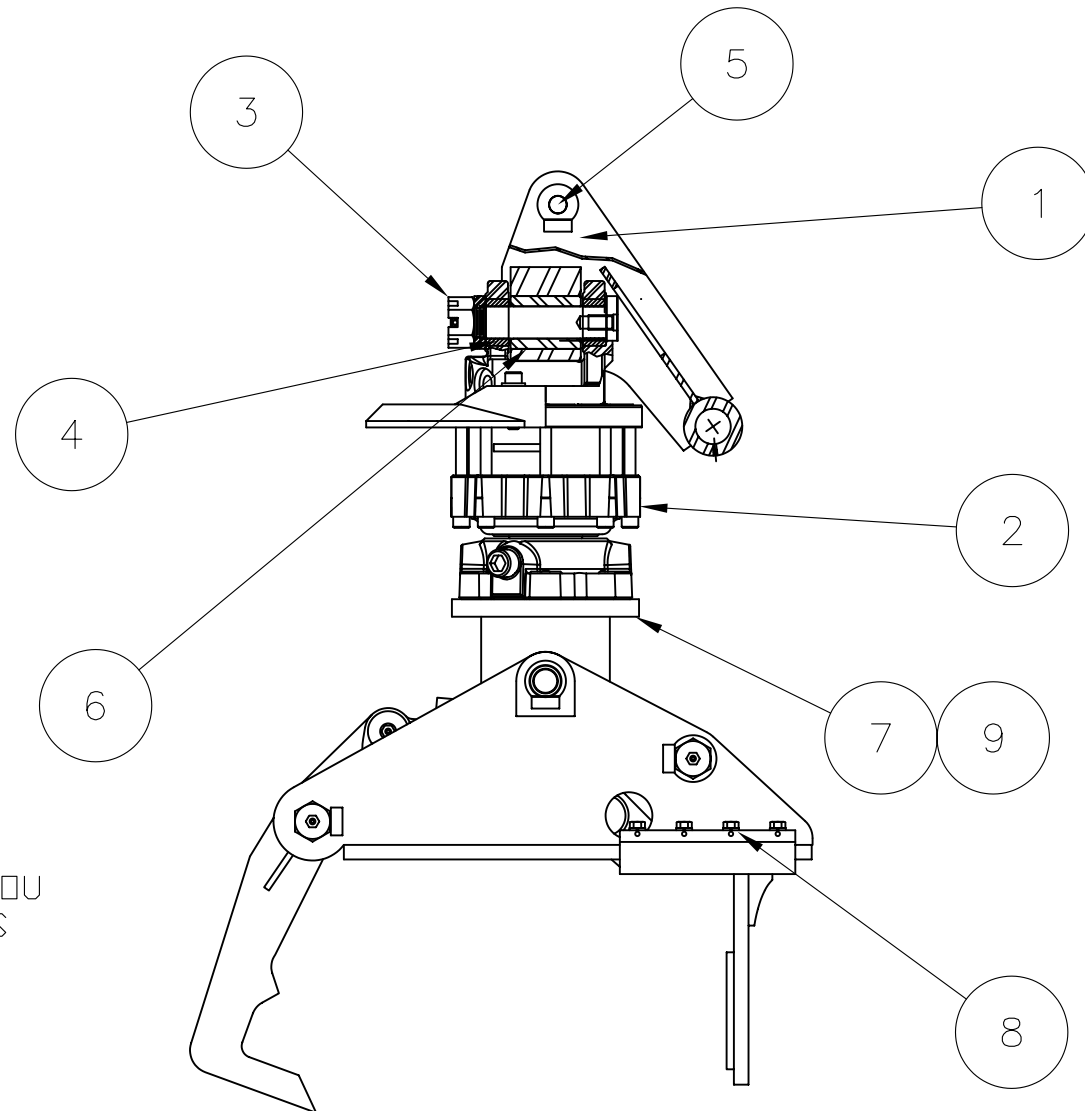
DWG. #: LHR042-001

REV. #: 000

DRAWN BY: TDA

DATE: 12/12/2000

REPLACES: —



NOTES:

1) ORDER LHR0749 WHEN YOU
WANT THE ASSEMBLY MINUS
THE TIE HEAD
REPLACES #731052



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TIE HEAD ASSEMBLY

PART #: LHR0742

SHEET: 2 OF 2

DWG. #: LHR042-001

REV. #: 000

DRAWN BY: TDA

DATE: 12/12/2000

REPLACES: -

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0743	ADAPTOR - GRAPPLE	736649		1
2	LHR0240	ROTATOR	731052		1
3	LHR0237	TOP PIN (INCLUDES CASTLE NUT, WASHER, AND PIN)	731637		1
4	LHR0241	BUSHING	NONE		2
5	LHR0744-001	PIN	736760		1
6	LHR0747	BUSHING	NONE		1
7	LHR0745	BRACKET	732294		1
8	LHR0251	TIE HEAD	744023C		1
9	LHR0748	BUSHING - BRACKET	NONE		2



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TOP PIN

PART #: LHR0237

SHEET: 1 OF 1

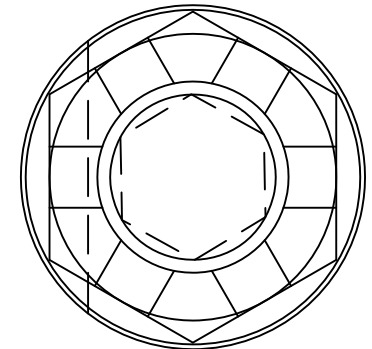
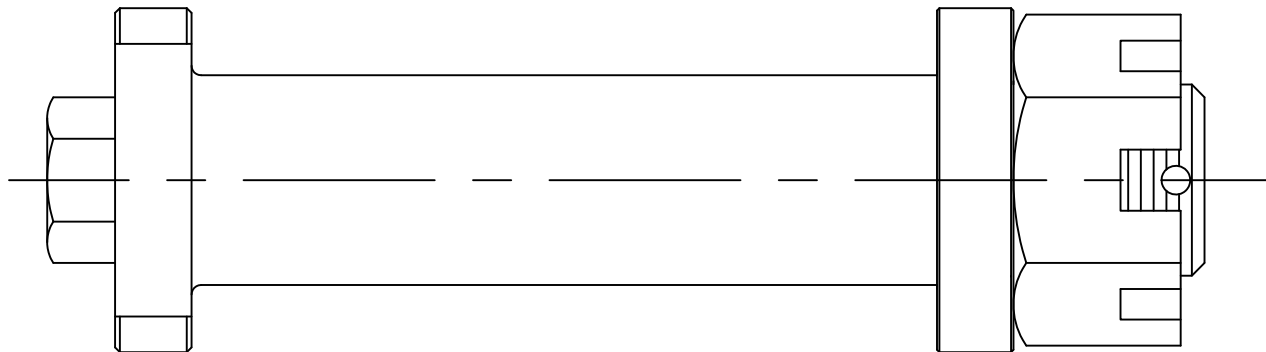
DWG. #: LHR0237B

REV. #: 000

DRAWN BY: TA

DATE: 5/27/1998

REPLACES: 731637



NOTES:

- 1) USED ON KERSHAW TIE CRANE MODEL 12-5
DIRECT DRIVE ROTOR ASSEMBLY



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KERSHAW 12-5

BUSHING, ROTOR HEAR EAR

PART# **LHR0241**

SHEET 1 OF 1

FILE ID: LHR0241.idw

REV 1

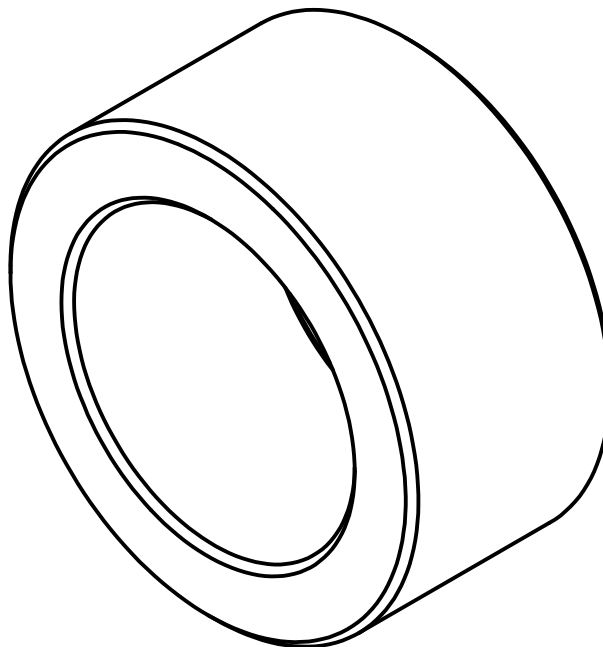
DRAWN BY: DVANSICKLE

DATE 7/24/2015

REPLACES:

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
1	REDRAWN	7/24/2015	DAV





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DOUBLE TIE HEAD ASSEMBLY

PART #: **LHR0251-002**

SHEET: 1 OF 8

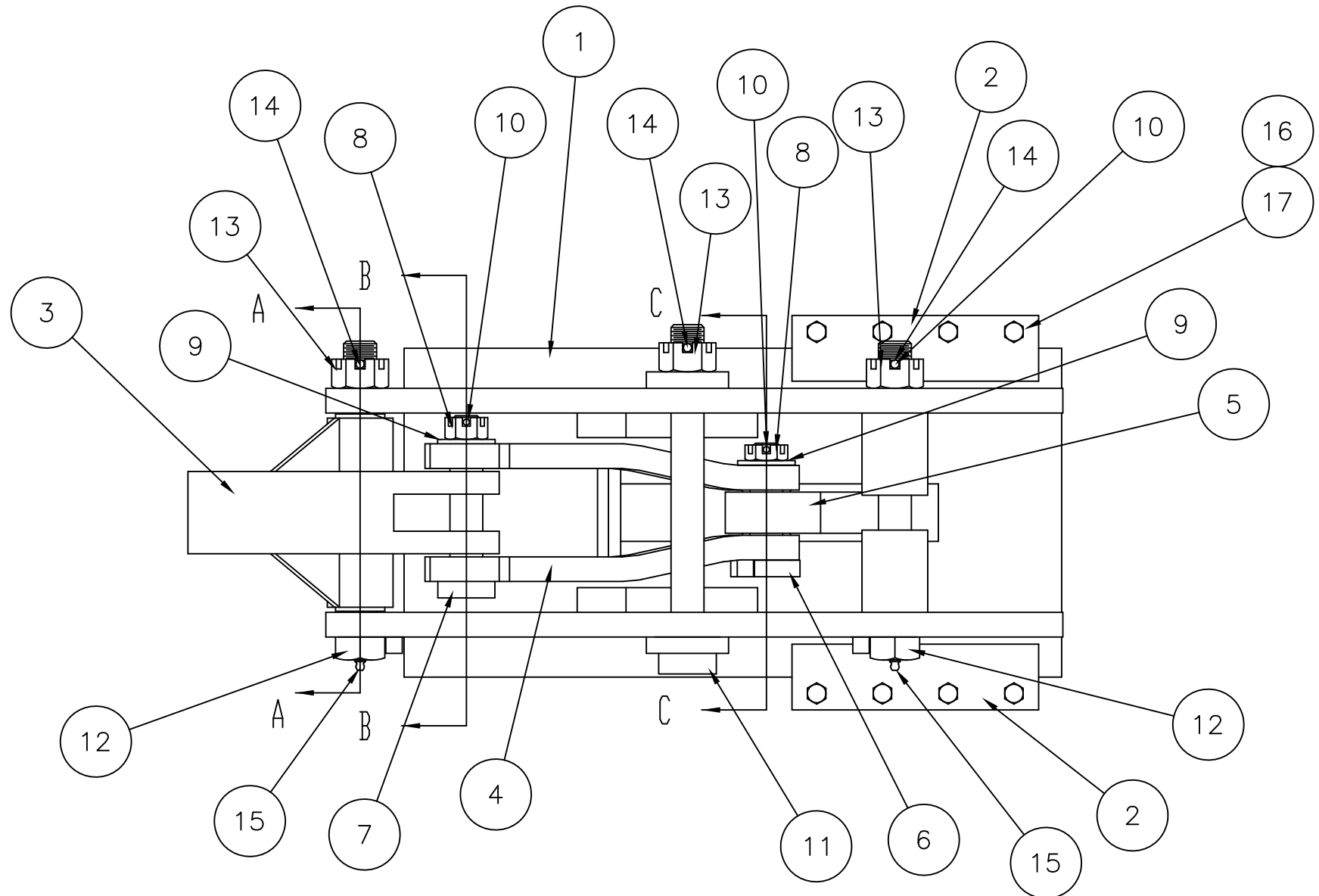
DWG. #: LHR0251-002

REV. #: 000

DRAWN BY: TDA

DATE: 12/10/1998

REPLACES: 744023C





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REPLACES: 744023C





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REPLACES: 744023C





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DOUBLE TIE HEAD ASSEMBLY

PART #: LHR0251

SHEET: 4 OF 8

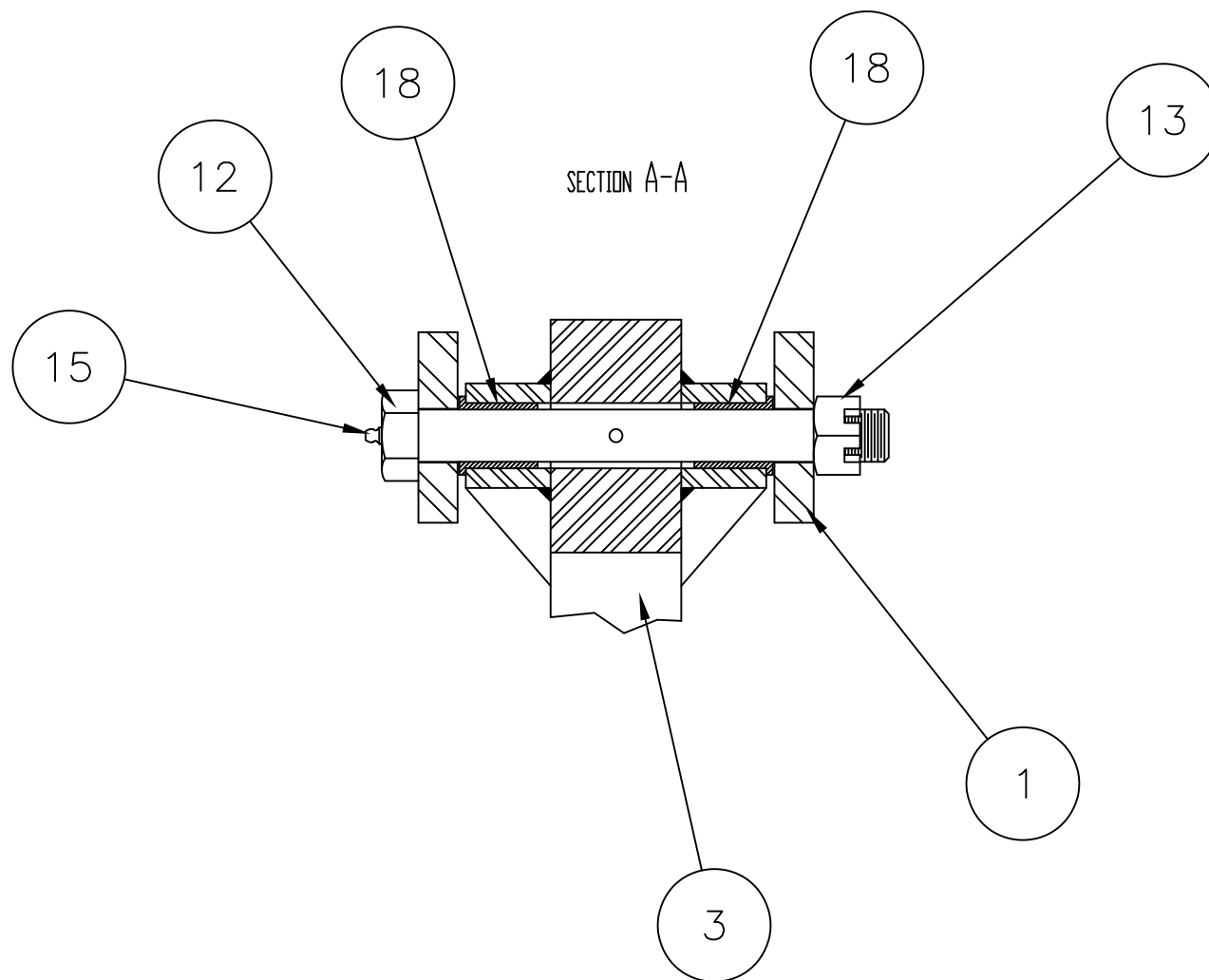
DWG. #: LHR0251-002

REV. #: 000

DRAWN BY: TDA

DATE: 12/10/1998

REPLACES: 744023C





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DOUBLE TIE HEAD ASSEMBLY

PART #: LHR0251

SHEET: 5 OF 8

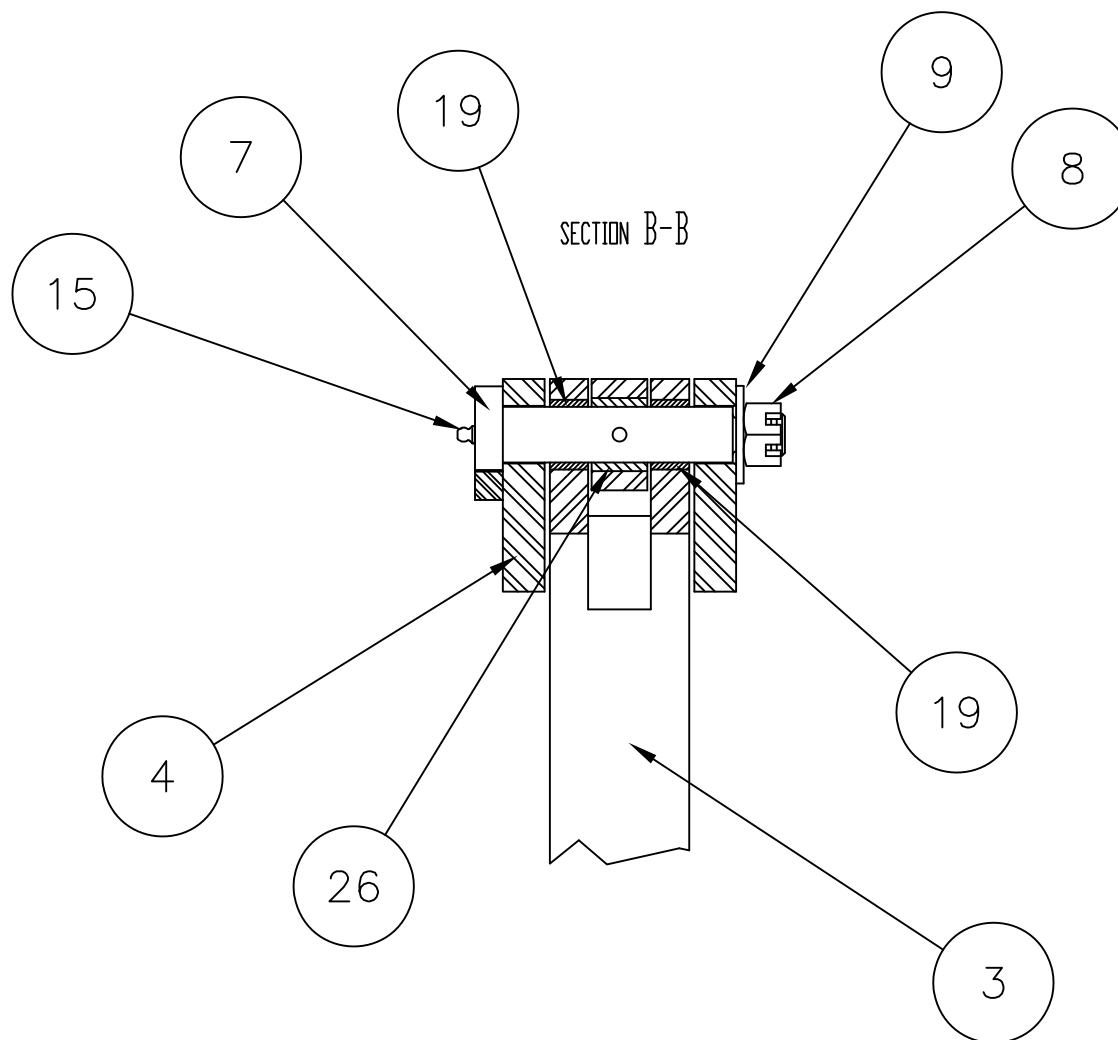
DWG. #: LHR0251-002

REV. #: 000

DRAWN BY: TDA

DATE: 12/10/1998

REPLACES: 744023C





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DOUBLE TIE HEAD ASSEMBLY

PART #: LHR0251

SHEET: 6 OF 8

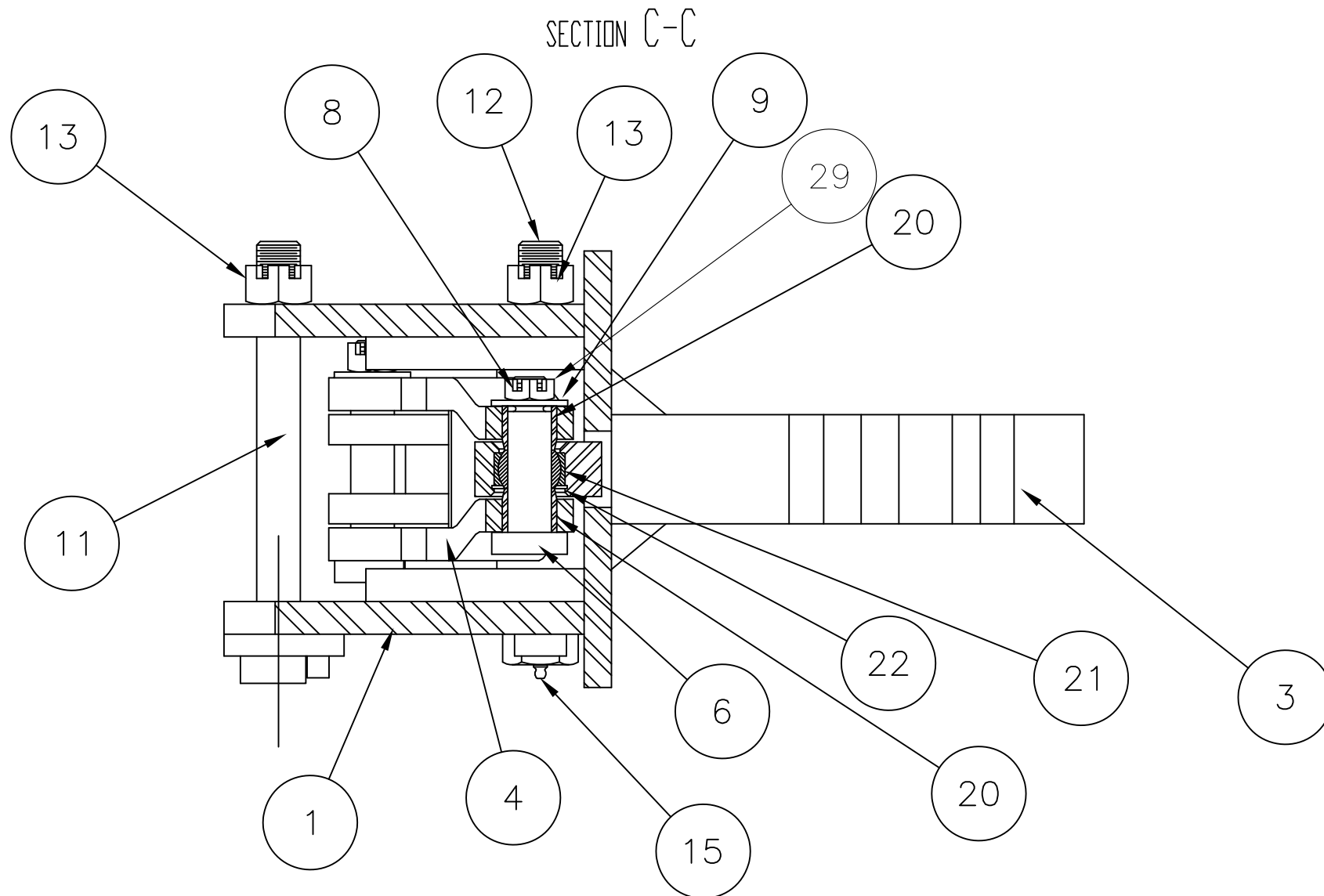
DWG. #: LHR0251-002

REV. #: 000

DRAWN BY: TDA

DATE: 12/10/1998

REPLACES: 744023C





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DOUBLE TIE HEAD ASSEMBLY

PART #: LHR0251

SHEET: 7 OF 8

DWG. #: LHR0251-002

REV. #: 000

DRAWN BY: TDA

DATE: 12/10/1998

REPLACES: 744023C

Item	Part Number	Description	Replaces	Wt.	Price	Req'd
0	LHR0251	DOUBLE TIE HEAD ASSEMBLY	NONE	200.0		1
1	LHR0257	TIE HEAD FRAME	NONE	120.0		1
2	LHR0255	KEEPER PLATE	NONE	1.0		2
3	LHR0480	GRAPPLE	NONE	35.0		1
4	LHR0264	LINK	NONE	22.0		1
5	LHR0256	REAR CLAMP PLATE WELDMENT	NONE	35.0		1
6	LHR0265-001	REAR CLAMP PLATE PIN	NONE	2.0		1
7	LHR0266	GRAPPLE LINKAGE PIN	NONE	2.0		1
8	F NUT CSTL 0.75-10	3/4" UNC CASTLE NUT	NONE			1
9	F W LOCK .75	3/4" FLAT WASHER	NONE			2
10	F COTTER .1875X 2.0	3/16" X 2" LONG COTTER PIN	NONE			2
11	LHR0270	LIFT PIN	NONE	1.0		1
12	LHR0274	PIN	NONE	1.0		2
13	F NUT CSTL 1.00-8	1" UNC CASTLE NUT	NONE	0.1		3
14	F COTTER .250X 2.5	1/4" X 2 1/2" LONG COTTER PIN	NONE			3
15	F GZ0002	1/8" NPT GREASE ZERK	NONE			3
16	F B 0.375-16X1.25 GR5	3/8" UNC X 1 1/4" LG. GR. 5 BOLT	NONE			8
17	F W LOCK .375	3/8" LOCK WASHER	NONE			8
18	LHR0267	GRAPPLE HINGE BUSHING	NONE	0.2		2



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DOUBLE TIE HEAD ASSEMBLY

PART #: LHR0251

SHEET: 8 OF 8

DWG. #: LHR0251-002

REV. #: 000

DRAWN BY: TDA

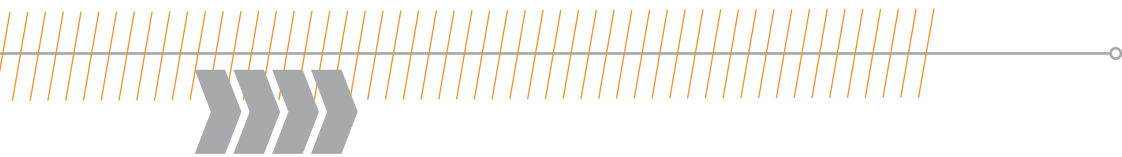
DATE: 12/10/1998

REPLACES: 744023C

Item	Part Number	Description	Replaces	Wt.	Price	Req'd
18	LHR0267	GRAPPLE HINGE BUSHING	NONE	0.2		2
19	LHR0268	GRAPPLE LINKAGE BUSHING	NONE	0.2		2
20	LHR0269	BEARING SPACER	NONE	0.2		2
21	LHP0018	TORRINGTON SPHERICAL PLAIN BEARING	NONE	1.0		1
22	LHP0202	SPIROLOX SNAP RING	NONE	0.1		1
23	LHR0271	LIFT PIN BUSHING	NONE	0.5		2
24	LHP0021	GRIPPER PAD	NONE	5.0		2
25	LHR0301	CLAMP CYLINDER	102240847N	10.0		1
26	LHR0369	CYLINDER BUSHING	UNKNOWN	0.1		1
27	NONE	TIE WIRE	NONE			1
28	F SHSS .25-20X .5	1/4"X20X5/16"L SET SCREW				8
29	LHR0753	NUT				1

SECTION 6

Kershaw 12-12 Tie Crane



KERSHAW 12-12 TIE CRANE AXLE ASSEMBLY

PART# **LHR1383**

SHEET 1 OF 2

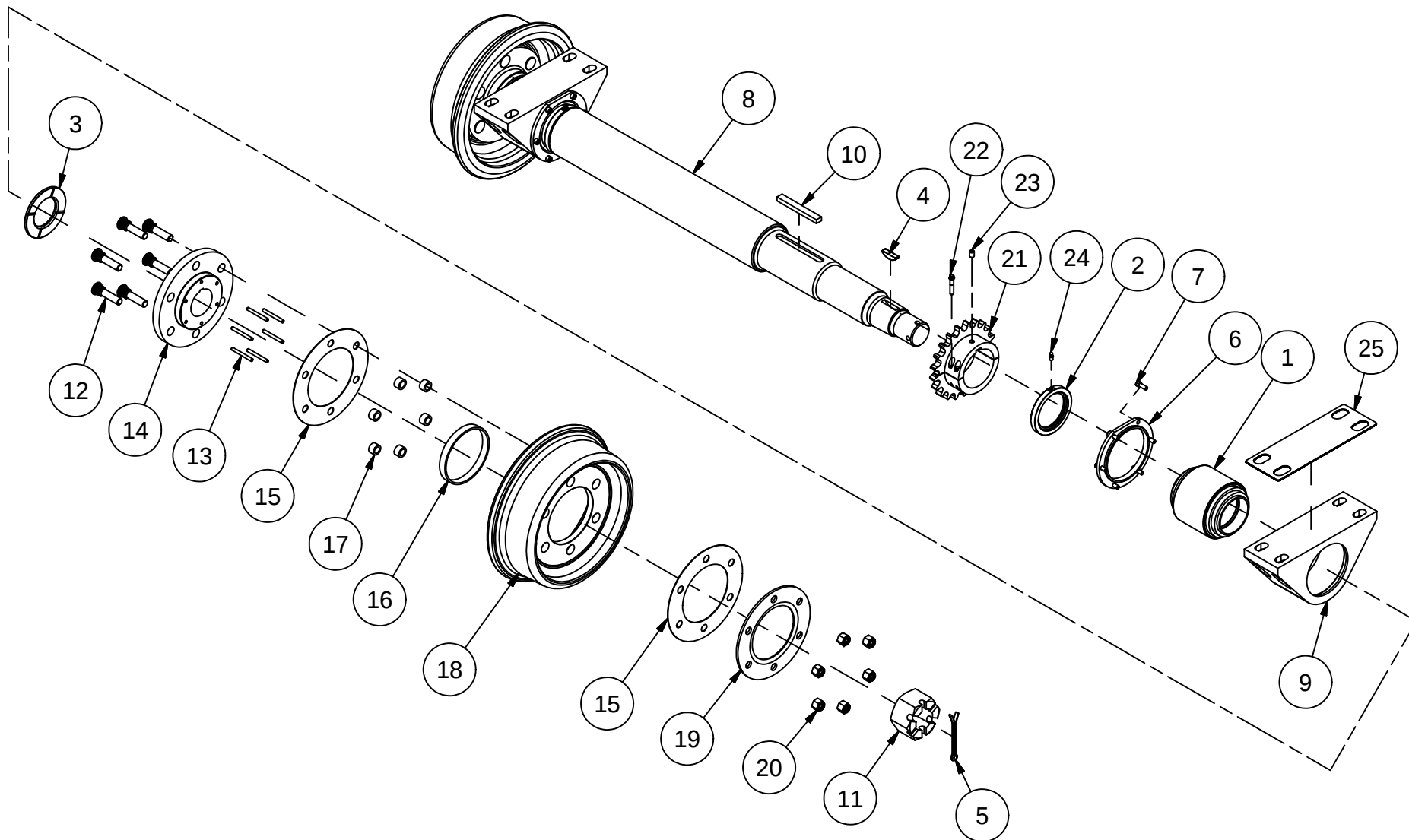
FILE ID: LHR1383ILL.idw

REV

DRAWN BY: DVANSICKLE

DATE 8/3/2015

REPLACES:





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KERSHAW 12-12 TIE CRANE AXLE ASSEMBLY

PART# **LHR1383**

SHEET 2 OF 2

FILE ID: LHR1383ILL.idw

REV

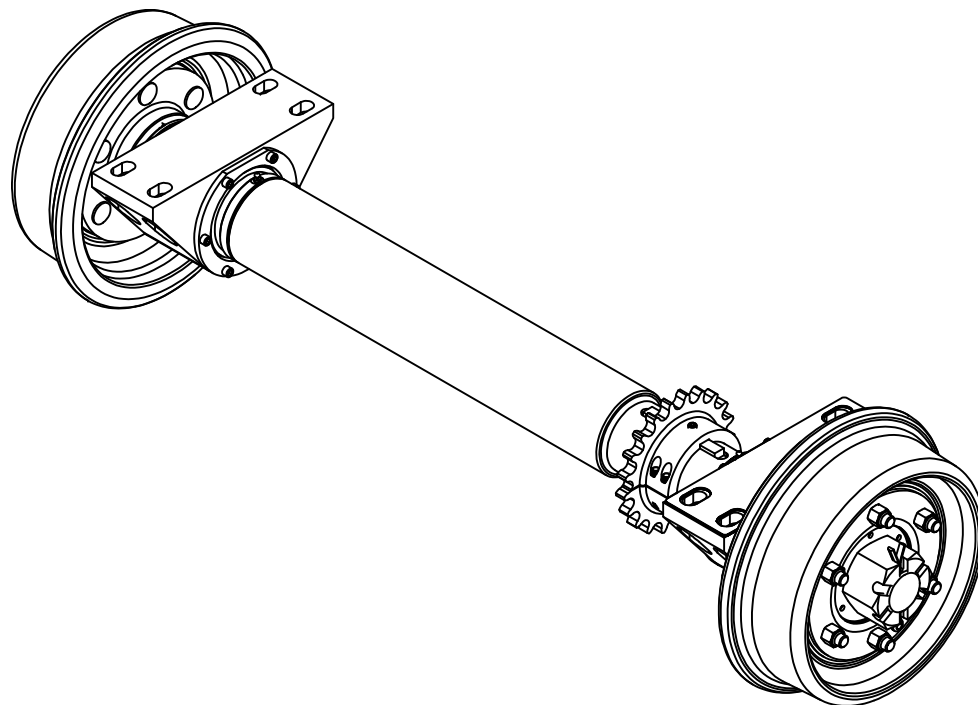
DRAWN BY: DVANSICKLE

DATE 8/3/2015

REPLACES:

PARTS LIST

ITE	QTY	PART NU	DESCRIPTION
1	2	LHR0634	BEARING, DRIVE AXLE
2	2	LHR0568	BACKING RING - INNER
3	2	LHR1381	SPACER, OUTER
4	2	LHP0028	WOODRUFF KEY 1/2"
5	2	LHP7732	COTTER PIN (3/8)
6	2	LHR1377	KEEPER, BEARING
7	12	LHP5382	CAPSCREW, SOCKET HD. (3/8)
8	1	LHR1384	SHAFT, TIE CRANE
9	2	LHR1378	HOUSING 4 BOLT, BEARING
10	1	LHP20485	KEY, RECTANGULAR (3/4 X 1/2)
11	2	LHP19858	NUT, HEX SLOTTED (2-3/4)
12	12	LHP20490	STUD, WHEEL (3/4)
13	12	LHP20486	SET SCREW, HEX SOCKET (3/8)
14	2	LHR1386	HUB, TIE CRANE
15	4	LHR1388	RING, INSULATOR
16	2	LHR1389	COLLAR, INSULATOR
17	12	LHR1396	BUSHING, NON-METALLIC
18	2	LHR1398	WHEEL, TIE CRANE
19	2	LHR1397	RING, RETAINER
20	12	LHP20491	NUT, LOCK-NYLON (3/4)
21	1	LHR1385	SPROCKET, N21 #100 CHAIN
22	4	LHP20492	CAPSCREW, 12 POINT HD. (3/8)
23	1	LHP6294	SET SCREW, HEX SOCKET (1/2)
24	2	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT
25	2	LHR1401	SHIM PACK





SECTION 7

Nordco

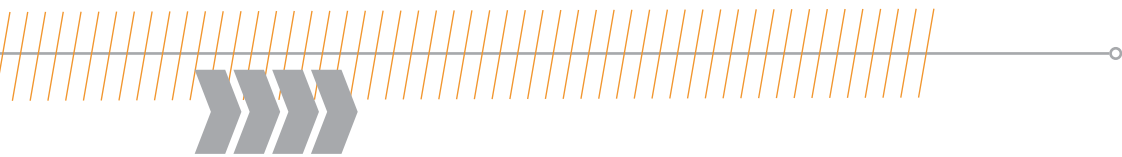
Auto Lift Plate Inserter

CX Hammer (Spiker)

07

SECTION 7

Nordco Auto Lift Plate Inserter





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ADJUSTING LINK

PART #: LHR0235

SHEET: 1 OF 1

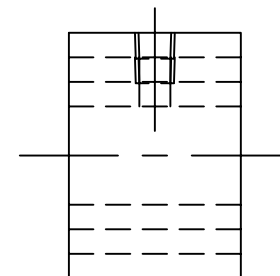
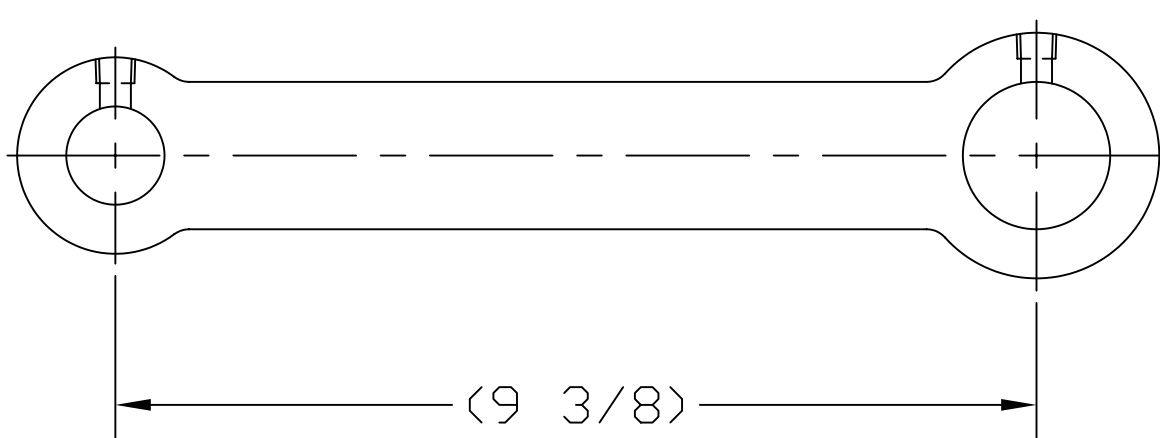
DWG. #: LHR235B

REV. #: 000

DRAWN BY: TA

DATE: 5/27/1998

REPLACES: SEE NOTE



NOTES:

- 1) USED ON NORDCO SPIKE PULLER SUPER CLAW - LS
- 2) REPLACES OEM #'S
 - 66067030 EYE TOGGLE ROD
 - 66068232 EYE TOGGLE ROD
 - 67271851 ADJUSTING LINK



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NORDCO AUTO LIFT PLATE INSERTER PIN FOR CLAMP ARM

PART #: LHR0236-001

SHEET: 1 OF 1

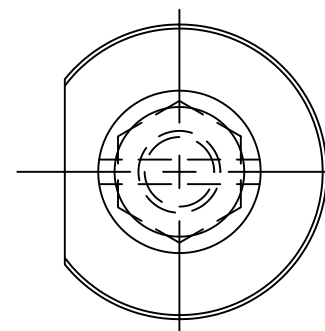
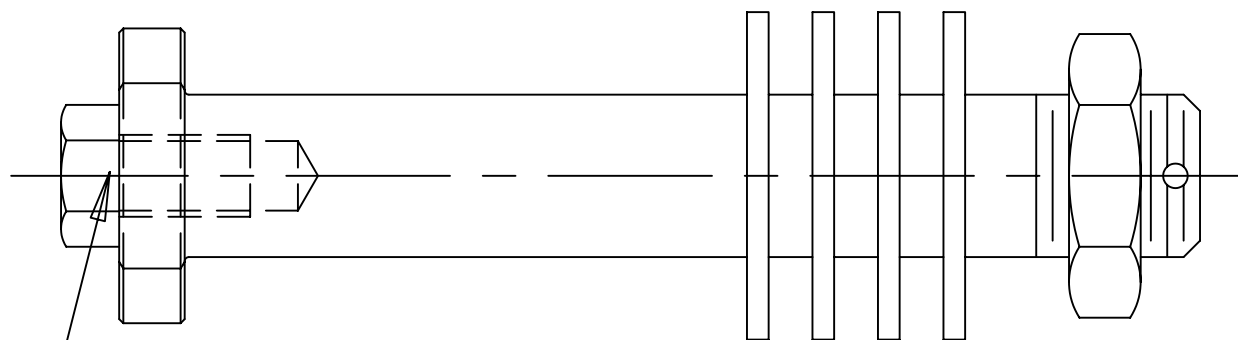
DWG. #: LHR236B

REV. #: 000

DRAWN BY: TA

DATE: 5/27/1998

REPLACES: 5425-3001



WELD BOLT IN WITH 1/4" FILLET
ON 2 FLATS 180° APART.

NOTES:

INCLUDES JAM NUT AND 4 HARDENED 1/4" WASHERS



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NORDCO AUTO LIFT PLATE INSERTER MODIFIED BOLT, PIN

PART #: LHR0248

SHEET: 1 OF 1

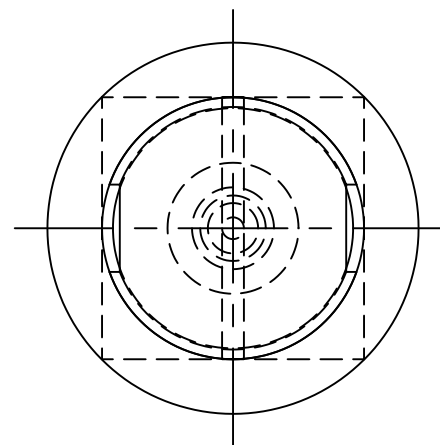
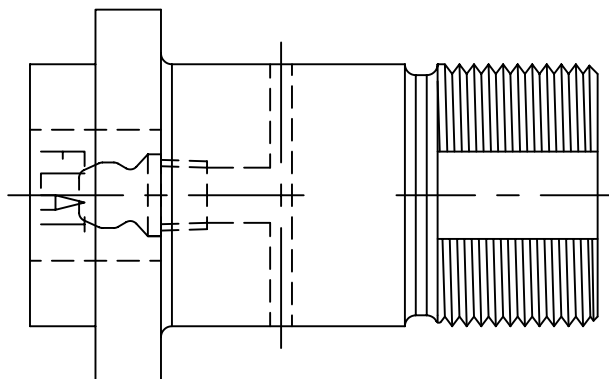
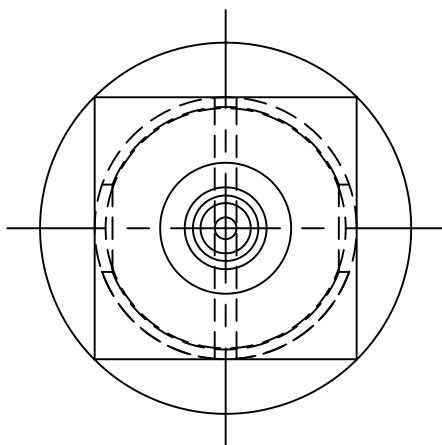
DWG. #: LHR248B

REV. #: 000

DRAWN BY: TW

DATE: 6/25/1998

REPLACES: 1955 1190



ACCESSORIES FOR MODIFICATION:

LHR249:

MOD. KIT TO DRILL AND TAP PIN HOLE TO ACCEPT
SET SCREWS, KIT INCLUDES: (1) 5/16" DRILL BIT,
(1) 3/8" N.C. TAP, (2) 3/8" X 3/8" LONG SET SCREW.

LHR250:

(1) 1 1/2" 12TPI TAP FOR CHASING HOLE.



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NORDCO AUTO-LIFT PLATE INSERTER ASSEMBLY

PART #: LHR0463

SHEET: 1 OF 2

DWG. #: LHR0463_3

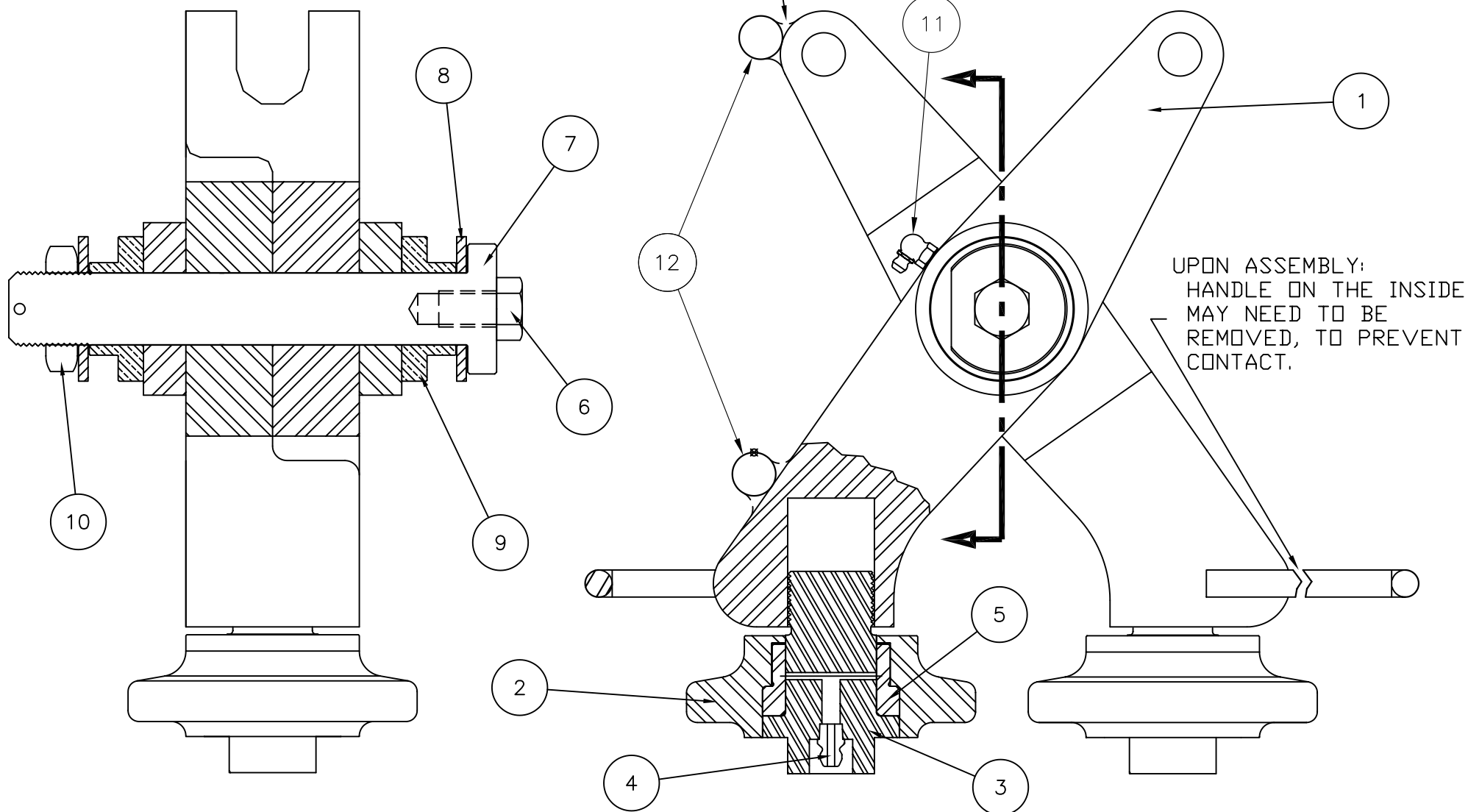
REV. #: 000

DRAWN BY: BAM

DATE: 9/23/2000

REPLACES: UNKNOWN

WELDED TO ARMS
WHERE NEEDED.





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NORDCO AUTO-LIFT PLATE INSERTER ASSEMBLY

PART #: LHR0463

SHEET: 2 OF 2

DWG. #: LHR0463_3

REV. #: 000

DRAWN BY: BAM

DATE: 9/23/2000

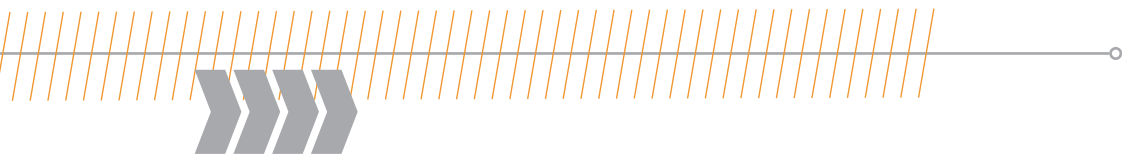
REPLACES: UNKNOWN

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0276	ARM	4773 6105	19.0	2
2	LHR0298	ROLLER	6621 8130	7.0	2
3	LHR0299	BOLT	1955 1190		2
4	F GZ0002	1/8" ZERK	3801 052		2
5	LHR0716	THRUST BUSHING	BEARING# NAXR40X.Z		2
6	F B .625-11X 1.0	BOLT	UNKNOWN		1
7	LHR0236-001	PIN	5425-3001	4.5	1
8	F W FLAT 1.25	WASHER	3060 512		2
9	LHR0462	BUSHING	2209 4927	0.6	2
10	F NUT JAM 1.25-12	JAM NUT	UNKNOWN		1
11	F GZ0003	GREASE FITTING, 1/8" NPT 90°	3801 090		2
12	LHR0719	LOCKING PIN	NONE		2

ITEMS 2,3,4, AND 5 CAN BE ORDERED WITH #LHR0297

SECTION 7

Nordco CX Hammer (Spiker)





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NORDCO CX HAMMER AXLE ASSEMBLY

PART# **LHR1373**

SHEET 1 OF 2

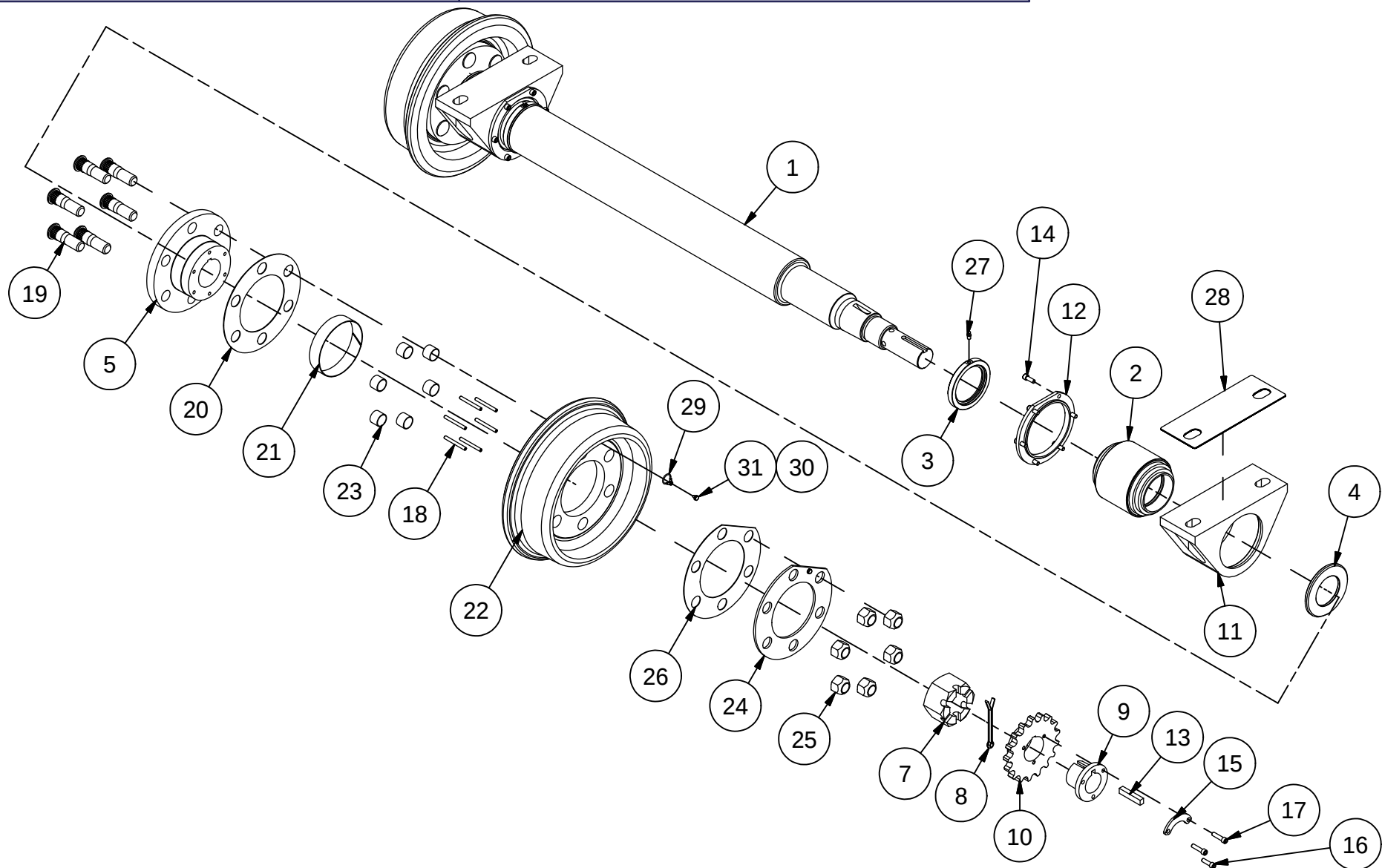
FILE ID: LHR1373ILL.idw

REV

DRAWN BY: DVANSICKLE

DATE 8/3/2015

REPLACES: 3.44" AXLE





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NORDCO CX HAMMER AXLE ASSEMBLY

PART# **LHR1373**

SHEET 2 OF 2

FILE ID: LHR1373ILL.idw

REV

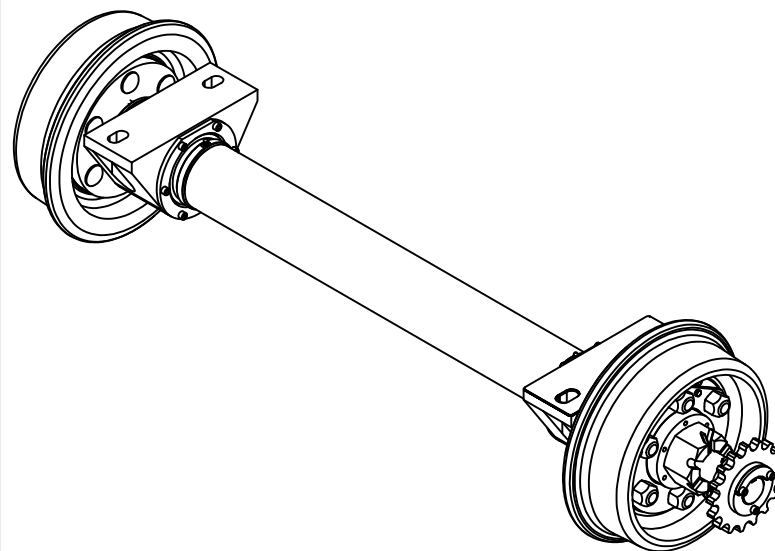
DRAWN BY: DVANSICKLE

DATE 8/3/2015

REPLACES: 3.44" AXLE

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHR1374	SHAFT, SPIKER
2	2	LHR0634	BEARING, DRIVE AXLE
3	2	LHR0568	BACKING RING - INNER
4	2	LHR1381	SPACER, OUTER
5	2	LHR1387	HUB, SPIKER
6	2	LHP0028	WOODRUFF KEY 1/2"
7	2	LHP19858	NUT, HEX SLOTTED (2-3/4)
8	2	LHP7732	COTTER PIN (3/8)
9	1	LHP20481	HUB, SPROCKET, 2-1/4" SHAFT
10	1	LHP20480	SPROCKET, N17 #100 CHAIN
11	2	LHR1376	HOUSING 2 BOLT, BEARING
12	2	LHR1377	KEEPER, BEARING
13	1	LHP20483	KEY, RETANGULAR (0.5X0.63)
14	12	LHP5382	CAPSCREW, SOCKET HD. (3/8)
15	1	LHR1382	KEEPER, KEY
16	1	LHP19821	CAPSCREW, SOCKET HD. (3/8)
17	2	LHP11644	CAPSCREW, SOCKET HD. (3/8)
18	12	LHP20486	SET SCREW, HEX SOCKET (3/8)
19	12	LHP20488	STUD, WHEEL (1-1/8)
20	2	LHR1391	RING, INSULATOR
21	2	LHR1392	COLLAR, INSULATOR
22	2	LHR1390	WHEEL, SPIKER
23	12	LHR1393	BUSHING, NON-METALLIC
24	2	LHR1395	RING, RETAINER
25	12	LHP20528	NUT, CAP (1-1/8)
26	2	LHR1394	RING CLIPPED, INSULATOR
27	2	LHP6712	GREASE ZERK (1/8 NPT) STRAIGHT
28	3	LHR1399	SHIM PACK
29	2	LHR1400	WIRE, BYBASS
30	4	LHP2466	WASHER, LOCK (1/4)
31	4	LHP20497	CAPSCREW, HEX HD. (1/4)





SECTION 8

Plasser

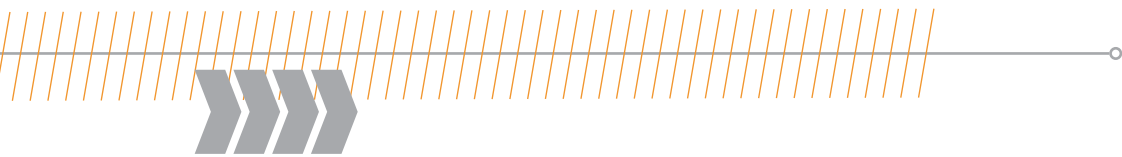
MFS40 Ballast Transfer Car

PTS 61 or 62

08

SECTION 8

Plasser MFS40 Ballast Transfer Car





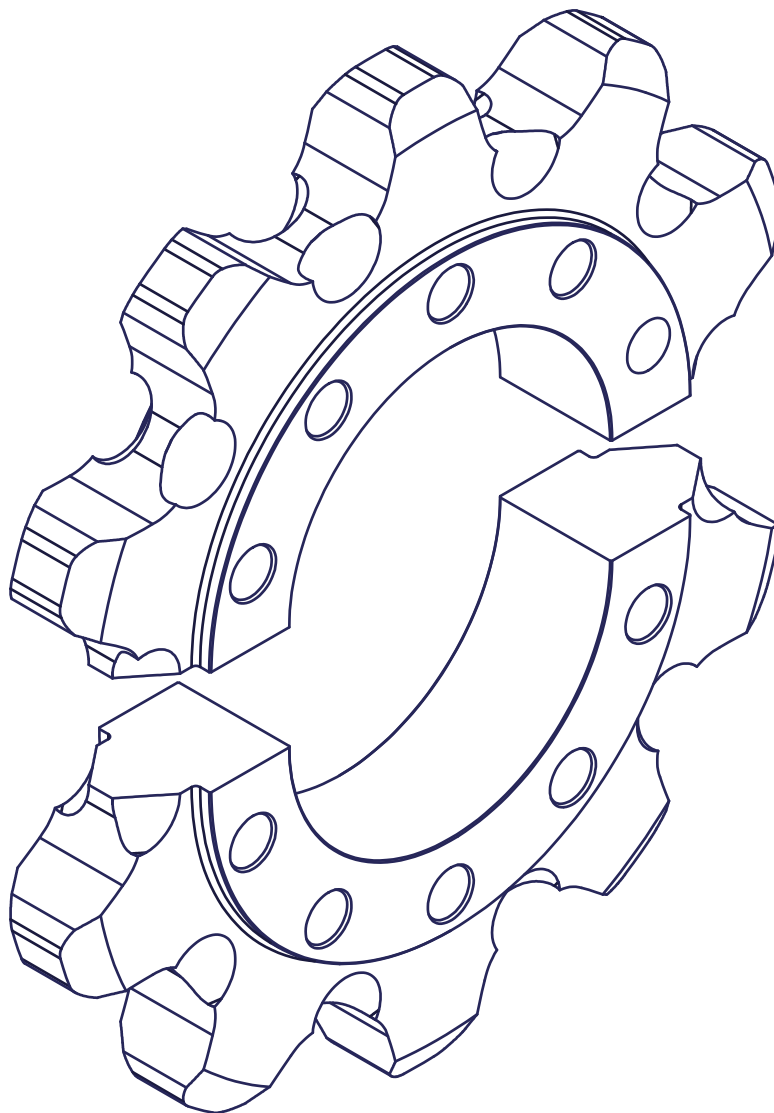
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PLASSER BALLAST PICKUP UNIT

SPROCKET, DRIVE CHAIN

PART# LHR0131	SHEET 1 OF 3
FILE ID: LHR0131.idw	REV 000
DRAWN BY: bkase	DATE 1/13/2003
REPLACES:	





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PLASSER MFS40 BALLAST TRANSFER CAR TRANSFER BELT DRIVE SPROCKET

PART #: LHR0134

SHEET: 1 OF 1

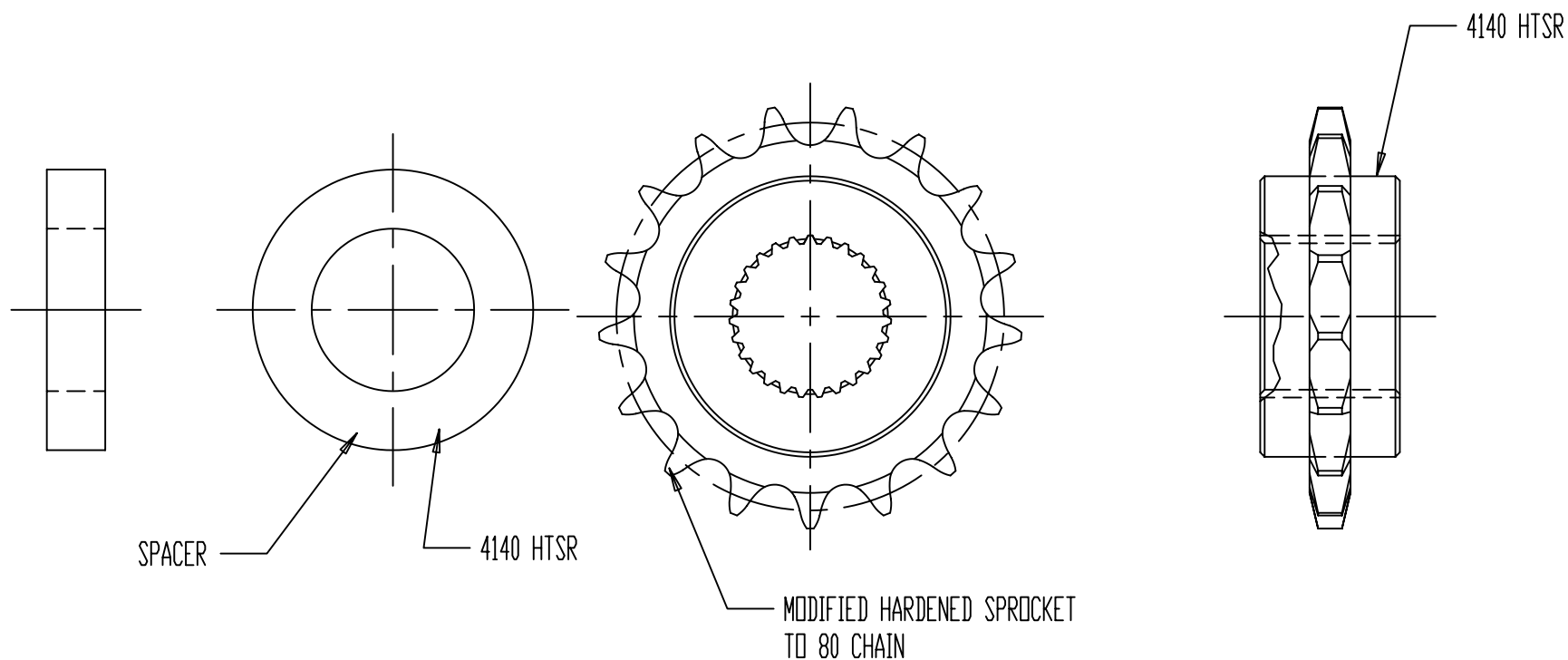
DWG. #: LHR134B

REV. #: 000

DRAWN BY: TA

DATE: 8/20/1997

REPLACES: UNKNOWN





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PLASSER MFS40 BALLAST TRANSFER CAR TRANSFER BELT DRIVE SPROCKET PIVOT PIN

PART #: LHR0139

SHEET: 1 OF 1

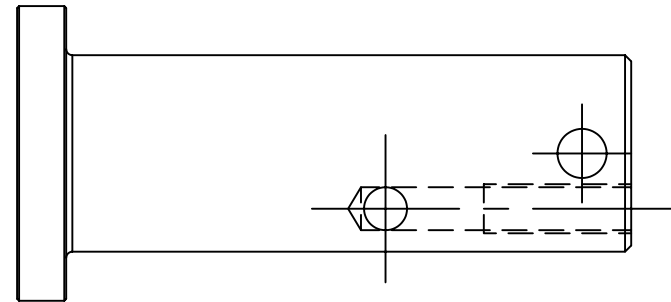
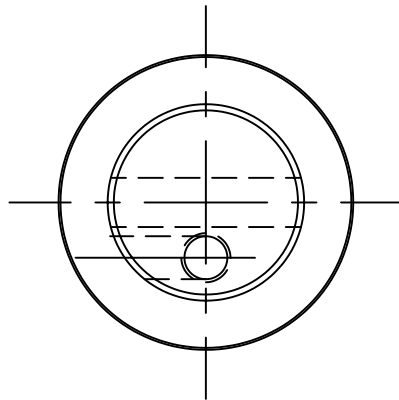
DWG. #: LHR139B

REV. #: 000

DRAWN BY: TA

DATE: 8/21/1997

REPLACES: UNKNOWN





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PLASSER MFS40 BALLAST TRANSFER CAR TRANSFER BELT DRIVE SPROCKET AXLE

PART #: LHR0140

SHEET: 1 OF 1

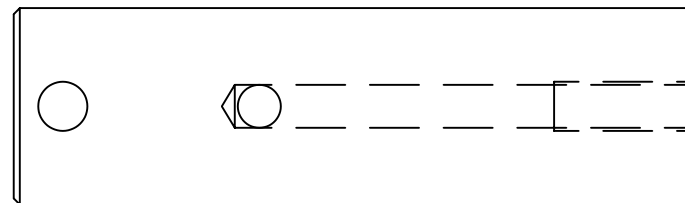
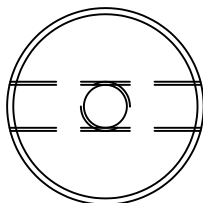
DWG. #: LHR140B

REV. #: 000

DRAWN BY: TA

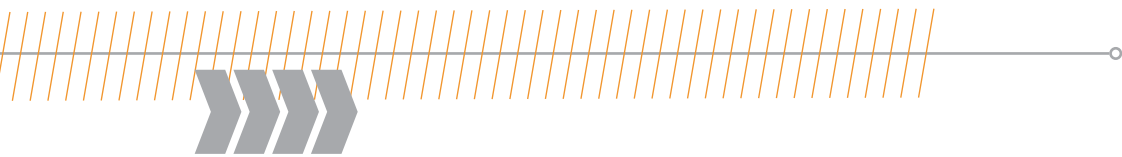
DATE: 8/21/1997

REPLACES: UNKNOWN



SECTION 8

Plasser PTS 61 or 62



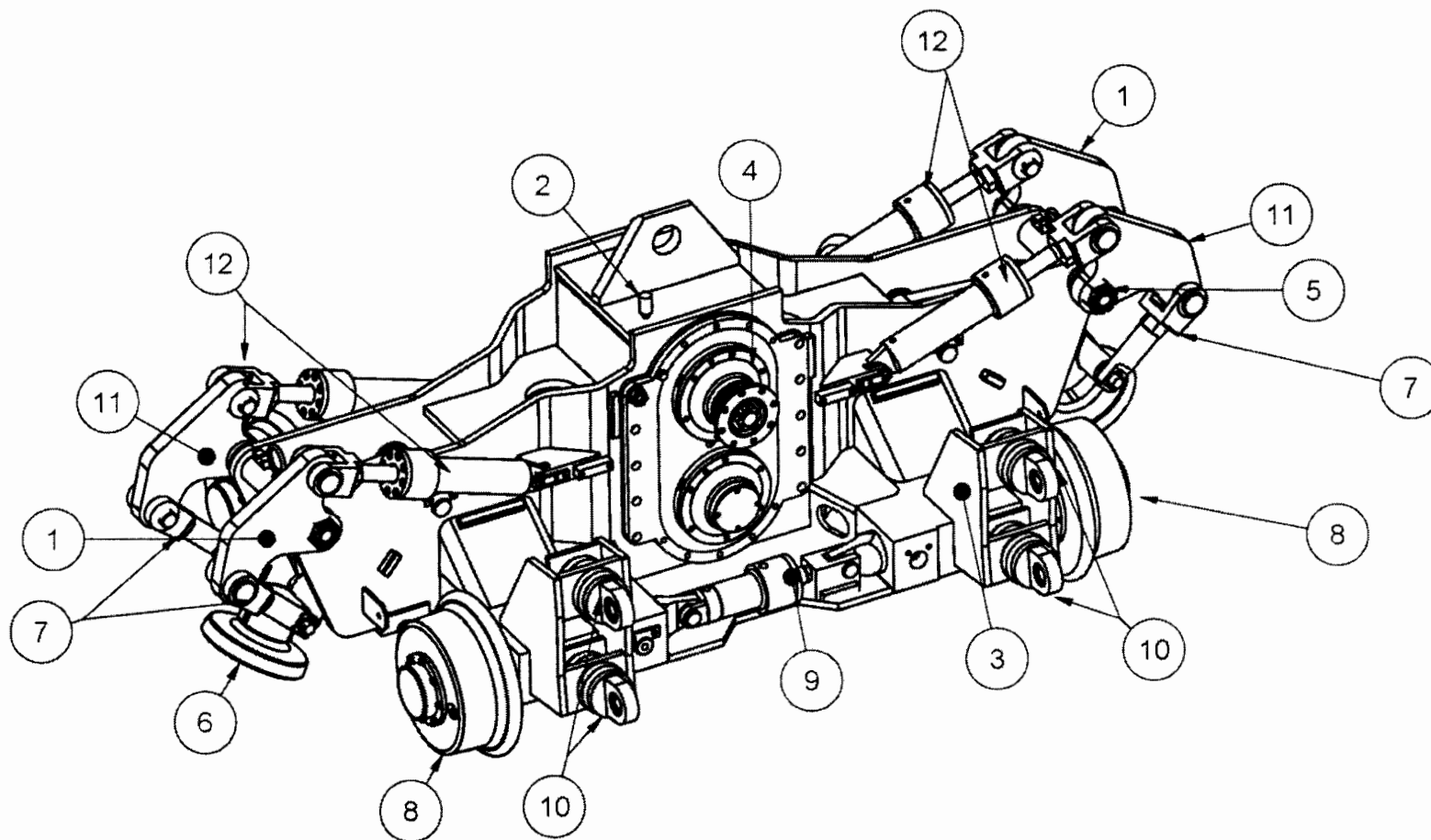


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PLASSER PTS61 AND 62 VIBRATOR COMPLETE ASSEMBLY

PART# COMP. ASSY.	SHEET 1 OF 2
DWG NO COMP.ASSY.idw	REV
DRAWN BY BSchroyer	DATE 2/28/2003
REPLACES:	WEIGHT APPROX. 4400 lbs





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PLASSER PTS61 AND 62 VIBRATOR COMPLETE ASSEMBLY

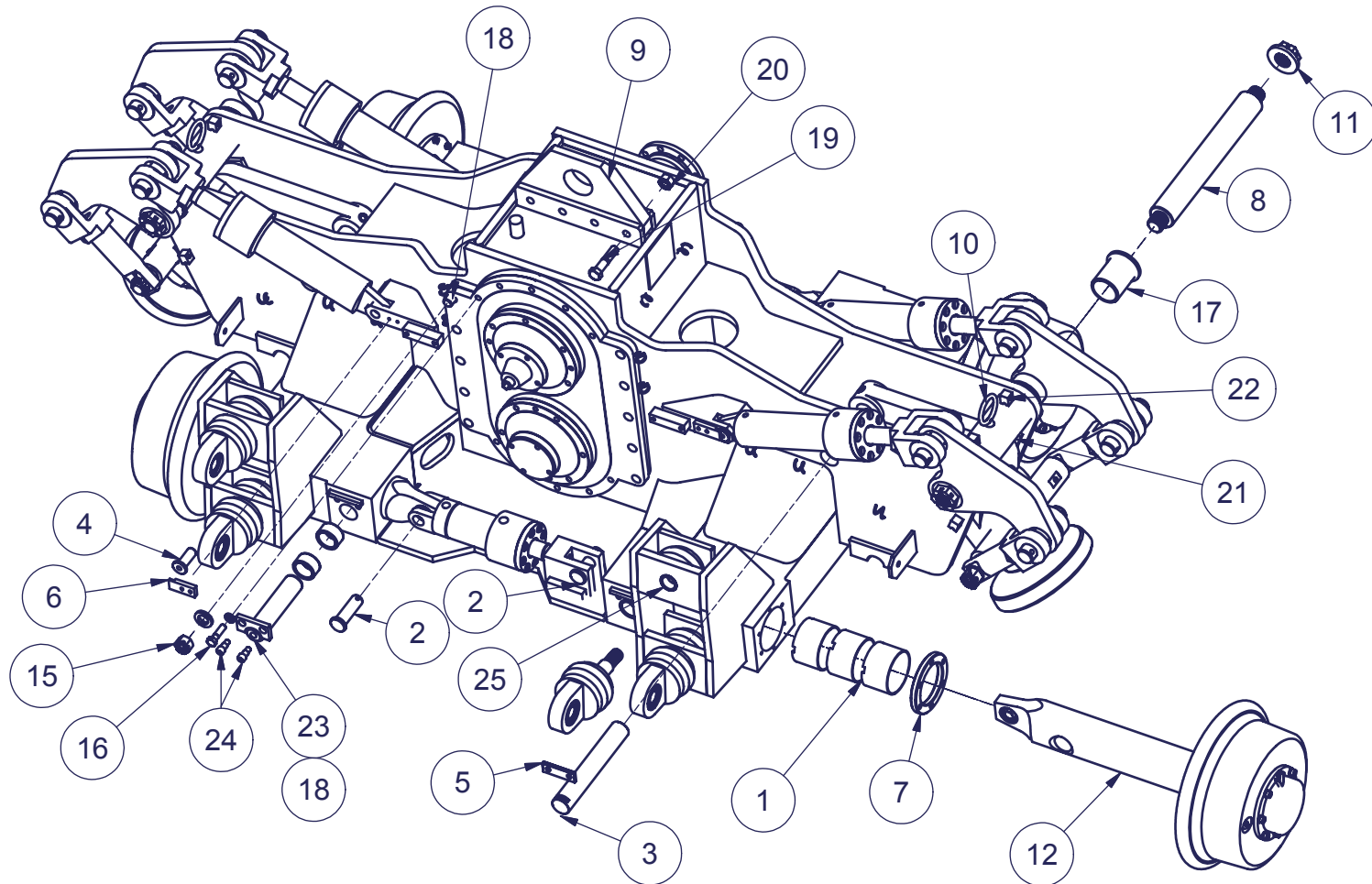
PART# COMP. ASSY.	SHEET 2 OF 2
DWG NO COMP.ASSY.idw	REV
DRAWN BY BSchroyer	DATE 2/28/2003
REPLACES:	WEIGHT APPROX. 4400lbs

Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	LHR0447	LEVER RIGHT	GLF311.702RUS	29	2
2	LHP0023	BREATHER	1457432011	2	1
3	LHR0532	ISOLATOR MOUNT WELDMENT	N/A	45	4
4	LHR0444 OR LHR0445	CENTER GEAR UNIT	N/A	550	1
5	LHR0415	COLLAR NUT	000357766		5
6	LHR0536	ROLLER CLAMP ASSEMBLY	GLF311.8001	140	2
7	LHR0501	LEVER	GLF311.203	5	4
8	LHR0428	AXLE ASSEMBLY	GLF311.840	224	4
9	LHR0546ASY	GAUGING CYLINDER ASSEMBLY	HZGB.063.036.0075.1.001	27	2
10	LHR0543	ISOLATOR MOUNT ASSEMBLY	N/A	10	4
11	LHR0437	LEVER (LEFT)	GLF311.702LUS	29	2
12	LHR0605	CLAMP CYLINDER ASSEMBLY	HZMB.063.036.0180.1	30	4

PLASSER PTS 61 AND 62
PINS, BUSHINGS AND MISC.
EXTERNAL COMPONENTS

PART# COMP. ASSY.	SHEET 1 OF 2
DWG NO PTS PINS AND BUSHINGS	NGS.idw
DRAWN BY BSchroyer	DATE 5/23/2003
REPLACES:	WEIGHT Approx. 4400 lbs





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PLASSER PTS 61 AND 62 PINS, BUSHINGS AND MISC. EXTERNAL COMPONENTS

PART# COMP. ASSY.	SHEET 2 OF 2
DWG NO PTS PINS AND BUSH	166.idw
DRAWN BY BSchroyer	DATE 5/23/2003
REPLACES:	WEIGHT APPROX. 4400 lbs

Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES
1	LHP0106-001	MAG BRONZE BUSHING	N/A
2	LHR0497	COMP CYL. YOKE PIN	GLF311.718
3	LHR0449	PIVOT ARM PIN	GLF311.317
4	LHR0498	CLAMP CYL. PIN	GLF311.706
5	LHR0487	PIN RETAINER	UD160.06
6	LHR0761	PIN RETAINER	GLF311.731
7	LHR0432-001	BUSHING RETAINER	GLF311.860
8	LHR1113	REPLACEABLE CLAMP PIVOT SHAFT	
9	LHR1141	REMOVABLE LIFTING EYE	
10	LHP0567	PAD EYE	
11	LHR0413	COLLAR NUT	UD64.340
12	LHR0428	AXLE ASSY	GLF311.840
13	LHR0496-001	PIN FOR STABILIZER LEVERS	
14	LHR0541	BODY FIT BOLT	
15	F NUT M CSTL 20-1.5	20MM X 1.5 CASTLE (USE WITH LOCK WASHER)	DIN 935-20X 1.5
16	F B M12- 1.75 x 45	12MM HEX BOLT (USE WITH LOCK WASHER)	
17	LHR1115	BUSHING, CLAMP PIVOT SHAFT	
18	LHR1117	BUSHING FOR COMP AXLE PINS	
19	F B .625-11X 3.0	HEX BOLT - UNC GRADE 8	
20	F NUT NYLOC .625-11	NYLOC NUT	
21	LHR1112	SLEEVE, CLAMP PIVOT	
22	LHP3840 HALF	GREASE BLOCKS	
23	LHR1118	COMPENSATION AXLE PIN	
24	LHP5239	M10-1.5 SHOULDER SCREWS	GM6442
25	LHP6099	ISOLATOR MOUNT BUSHING	38X30.4X20



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PLASSER PTS-62 VIBRATOR FRAME

PART #: LHR0500

SHEET: 1 OF 1

DWG. #: LHR0500

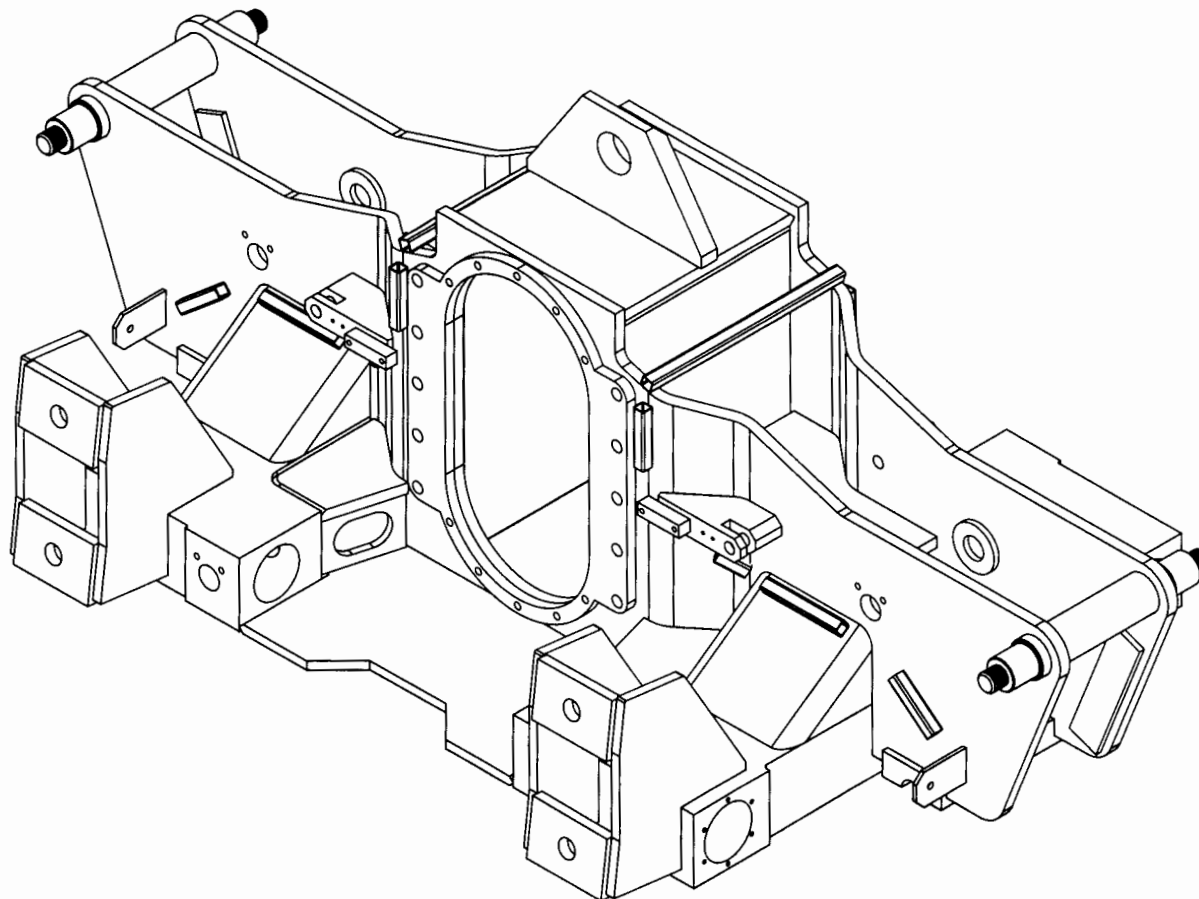
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DRAWN BY: WS

DATE: 6/16/1999

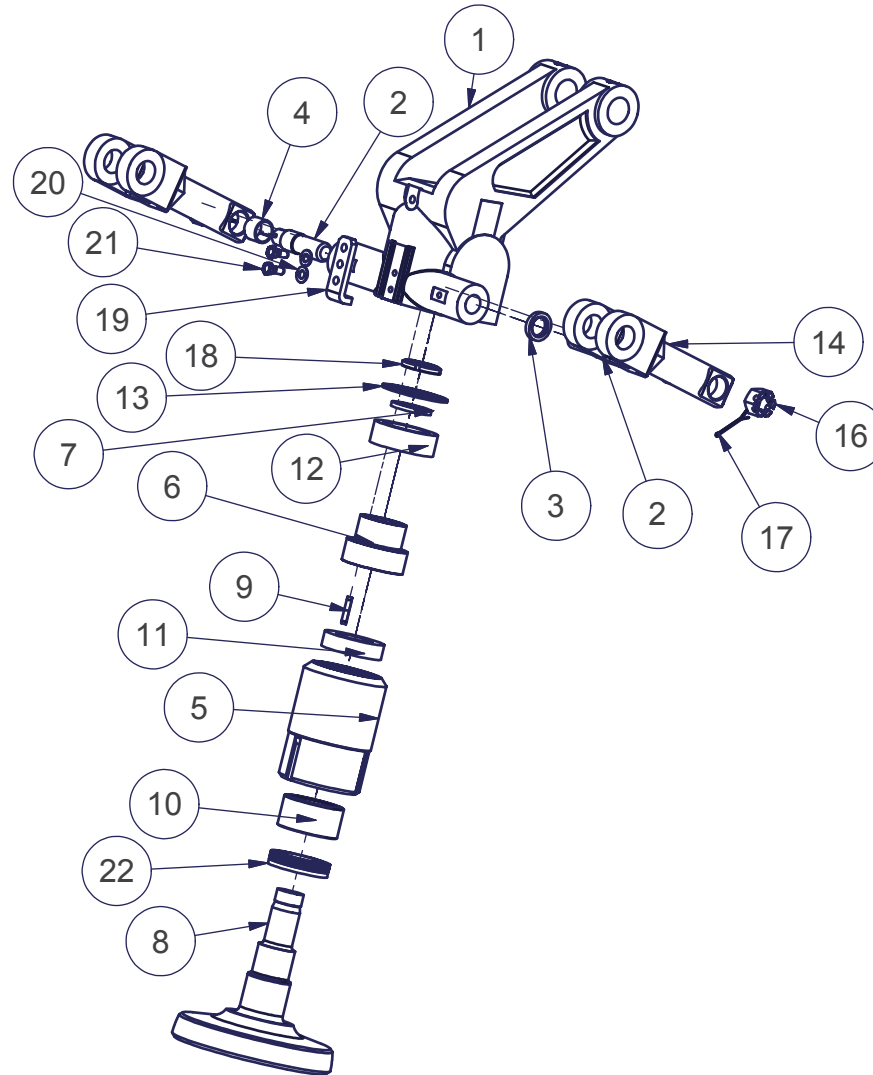
REPLACES: —

PLASSER PTS-62 HORIZONTAL VIBRATOR FRAME
"CORE". L&H OFFERS A REBUILD PROGRAM



VIBRATOR
ROLLER CLAMP UNIT
FOR PLASSER PTS61 OR 62

PART# LHR0536	SHEET 1 OF 2
DWG NO LHR0536.idw	REV
DRAWN BY BSchroyer	DATE 11/14/2002
REPLACES: GLF311.800I	WEIGHT APPROX. 140 lbs.





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VIBRATOR ROLLER CLAMP UNIT FOR PLASSER PTS61 OR 62

PART# LHR0536	SHEET 2 OF 2
DWG NO LHR0536.idw	REV
DRAWN BY BSchroyer	DATE 11/14/2002
REPLACES: GLF311.800I	WEIGHT APPROX. 140lbs

Parts List

ITEM	QTY	PART NUMBER	OEM NUMBER	DESCRIPTION	WEIGHT (lbs)
1	1	LHR0535	CU311.230	ROLLER CLAMP HOUSING UNIT	72
2	2	LHR0731	E150.57	ROLLER CLAMP PIN	1.1
3	2	LHR0732	GLF311.766	SPACER	NA
4	2	LHP0424	MB3030DX	SPLIT BUSHING 30X34X25	NA
5	1	LHR0391	GLF311.824	HOUSING	16
6	1	LHR0392	DL150.06	BUSHING	NA
7	1	LHR0393	GLF311.825	SPACER	NA
8	1	LHR0390	GLF311.810	CLAMP DISC	40
9	1	LHR0396	E 150.04	KEY	NA
10	1	LHP0422	NA6913	BEARING ASSY	NA
11	1	LHP0423	81211	BEARING ASSY	1.5
12	1	LHP0150	NKI70/35	BEARING ASSY	NA
13	1	LHP0421	DIN472-95X3	SNAP RING	NA
14	2	LHR0501	GLF311.203	ROLLER CLAMP LEVER	5
15	2	DIN933-10X25	DIN933-10X25	Hexagon Socket Set Screw	NA
16	2	F NUT CSTL M24 -1.5	DIN937-24X1.5-8	Slotted Hex Nut	NA
17	2	F COTTER .125X 1.75	1/8 X 1 3/4 CP	Pin - Cotter	NA
18	1	LHR0394	GUK40X1.5	NYLOCK NUT	NA
19	1	LHR1095	DT150.63	LOCK	.52
20	2	F W LOCK M10ZINC	DIN127-10-ZP	Washer	NA
21	2	F B M10- 1.5 x 25		Hex Head Bolt	
22	1	LHR0229		Labby Seal	

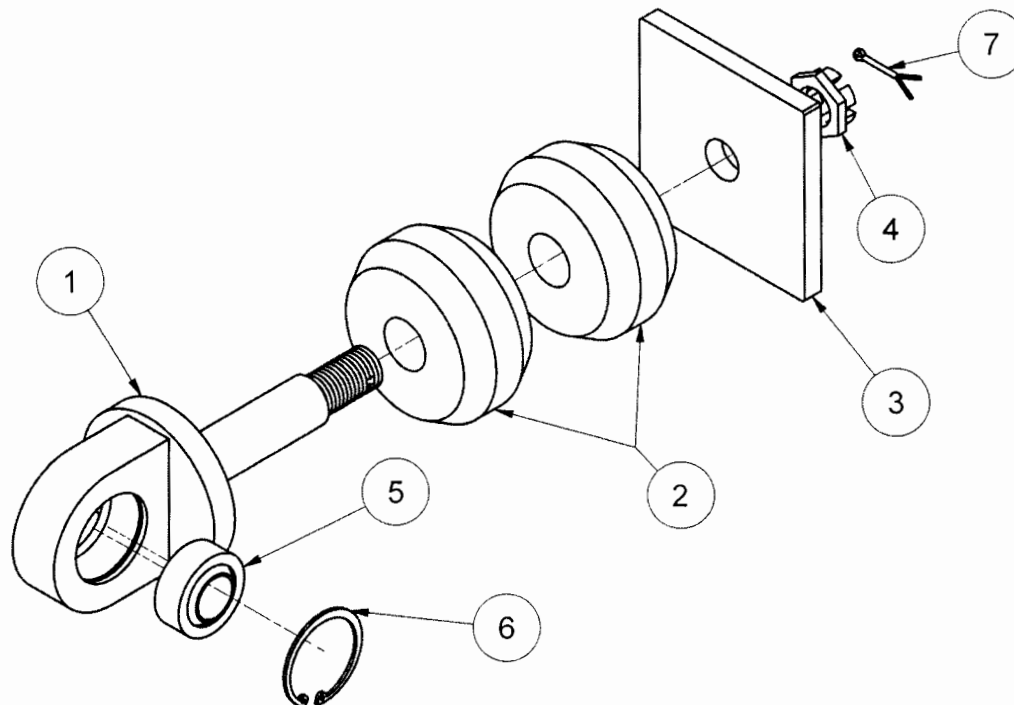


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ISOLATOR MOUNT ASSEMBLY FOR PLASSER PTS 61 or 62

PART# LHR0543 PB	SHEET 1 OF 1
DWG NO LHR0543 PB.idw	REV
DRAWN BY BSchroyer	DATE 2/21/2003
REPLACES:	WEIGHT 13 LB



Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	LHR0398	Cushion Eye Mount	UD311.314	6.5	1
2	LHR0499	Rubber Isolator	UD311.307	1	2
3	LHR0404	Backing Plate Washer	GLF311.310	3.4	1
4	LHR0441	Castle Nut	DIN935-24X1.5		1
5	LHP0101	Spherical Plain Bearing	GE30F0	0.5	1
6	LHP0198	Snap Ring	HO-218		1
7	F COTTER 1/8"X1"	Cotter Pin	UNKNOWN		1



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PLASSER PTS61/62 GAUGING CYLINDER ASSEMBLY

PART #: LHR0546

SHEET: 1 OF 2

DWG. #: LHR0546ASY

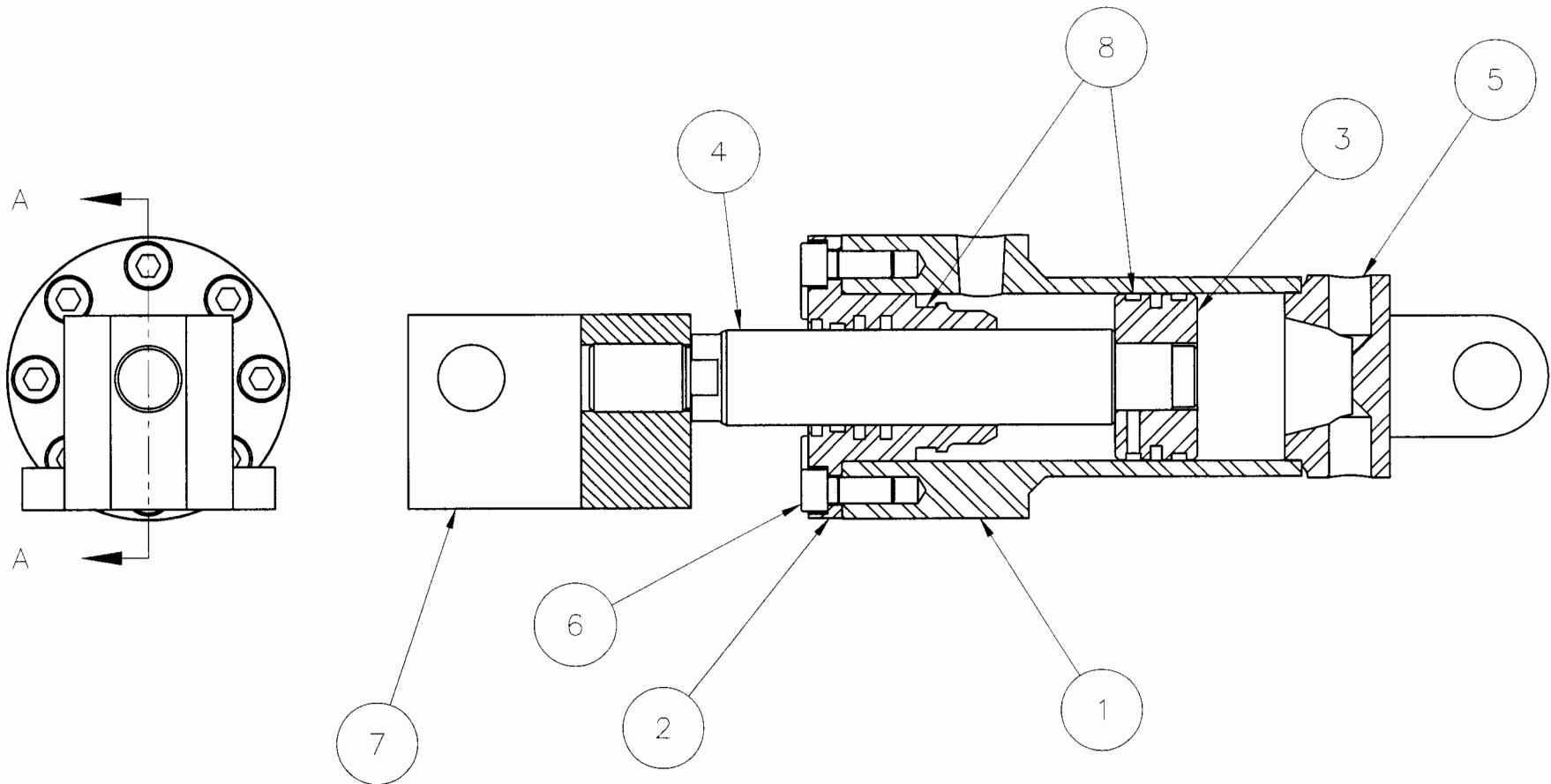
REV. #: 000

DRAWN BY: TA

DATE: 7/20/2001

REPLACES:

HZGB.063.036.0075.1.001



SECTION A-A



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PLASSER PTS61/62 GING CYLINDER ASSEMBLY

PART #: LHR0546	SHEET: 2 OF 2
DWG. #: LHR0546ASY	REV. #: 000
DRAWN BY: TA	DATE: 7/20/2001
REPLACES:	HZGB.063.036.0075.1.001

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0547	TUBE - CYLINDER			1
2	LHR0489_001	PACKING GLAND			1
3	LHR0578	PISTON			1
4	LHR0577	ROD - GAUGING CYLINDER			1
5	LHR0586	BASE PLATE			1
6	F SCHS M 10-1.5X 25	M10 X 25 SOCKET HEAD CAP SCREW			8
7	LHR0436-002	GAUGING CYLINDER YOKE			1
8	LHR0546SK	SEAL KIT			1
9	LHR0899	PISTON/ROD ASSEMBLY	HZ10.063.036.0075.1	5.1	1

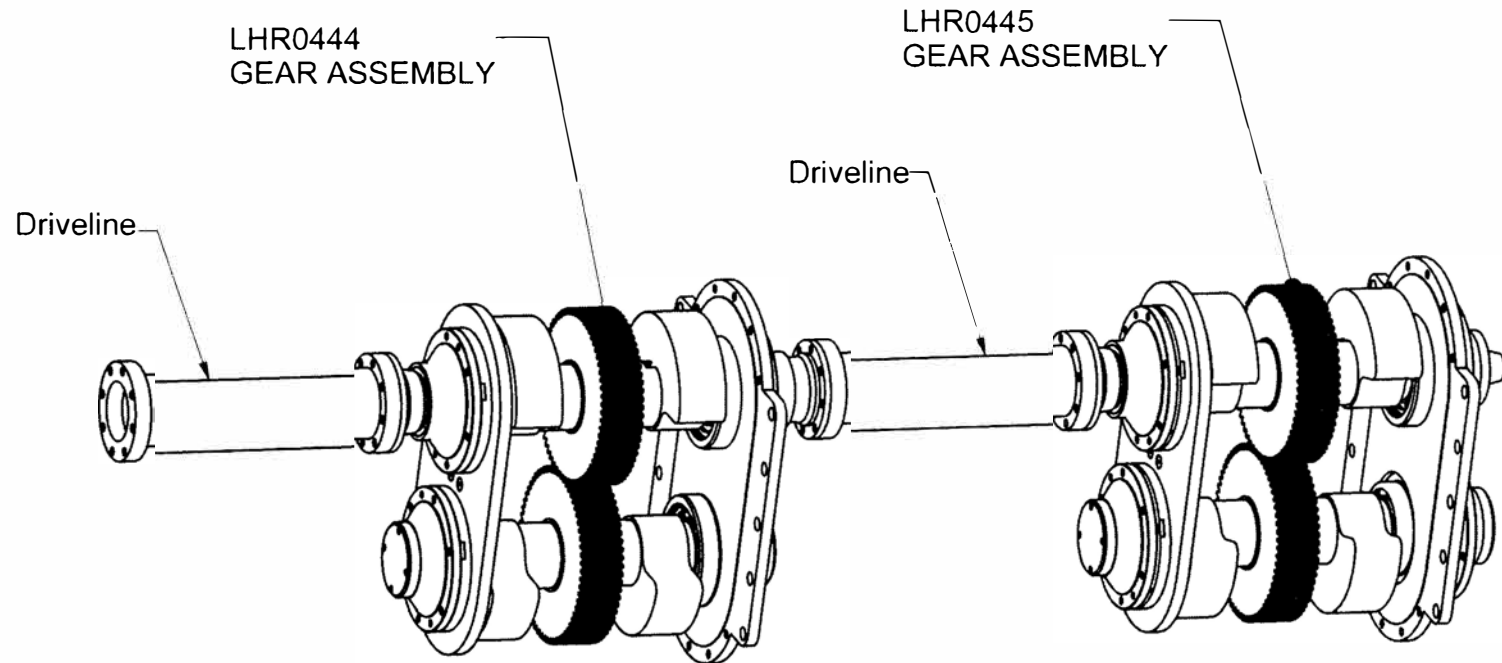


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VIBRATOR CONFIGURATION

PART# PTS62ASSY	SHEET 1 OF 1
DWG NO PTS62ASSY.idw	REV 000
DRAWN BY BSchroyer	DATE 2/25/2003
REPLACES: -	WEIGHT 1150 LBS



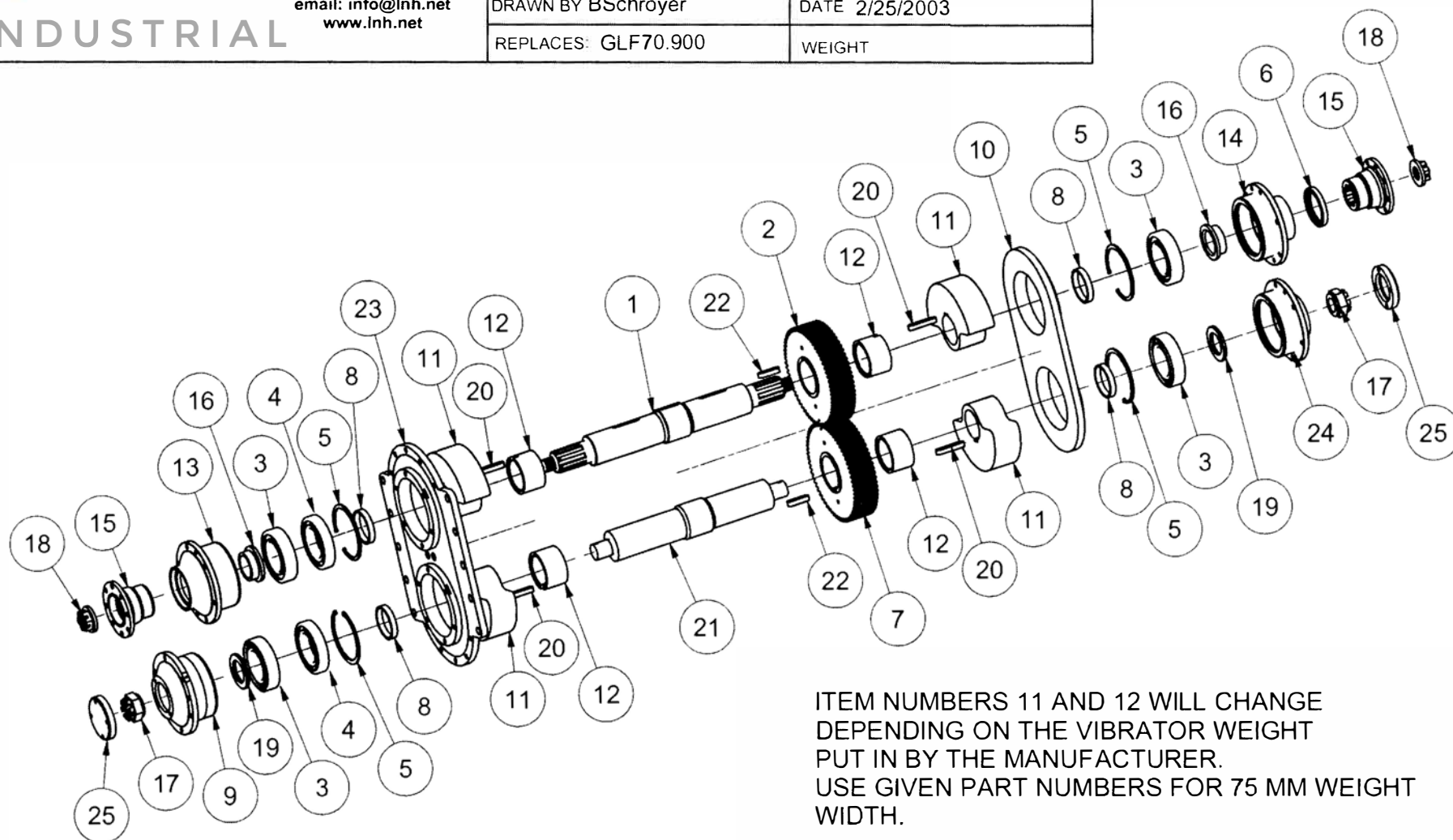


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Vibrator Unit (Front)

PART# LHR0444	SHEET 1 OF 2
DWG NO LHR0444PP.idw	REV 000
DRAWN BY BSchroyer	DATE 2/25/2003
REPLACES: GLF70.900	WEIGHT



ITEM NUMBERS 11 AND 12 WILL CHANGE
DEPENDING ON THE VIBRATOR WEIGHT
PUT IN BY THE MANUFACTURER.
USE GIVEN PART NUMBERS FOR 75 MM WEIGHT
WIDTH.

IF VIBRATOR WEIGHT IS 90 MM WIDE USE THE
FOLLOWING PART NUMBERS:
11 VIBRATOR WEIGHT LHR1000
12 VIBRATOR SPACER LHR1001



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Vibrator Unit (Front)

PART# LHR0444	SHEET 2 OF 2
DWG NO LHR0444PP.idw	REV 000
DRAWN BY BSchroyer	DATE 2/25/2003
REPLACES: GLF70.900	WEIGHT

Parts List

ITEM	PART NUMB	DESCRIPTION	REPLACES	REQ'D
1	LHR0412	FRONT UPPER SHAFT	000594075	1
2	LHR0221	VIBRATOR SHAFT GEAR	000593990	1
3	LHP0061	CYLINDRICAL ROLLER BEARING	000350621	2
4	LHP0062	BALL BEARING	000350680	1
5	LHP0294	SNAP RING	000260703	4
6	LHP0285	SINGLE LIP SEAL	000356654	1
7	LHR0542	LOWER VIBRATOR GEAR	GLF70.206	1
8	LHR0410	BUSHING	000594083	4
9	LHR0407	BEARING COVER	000562920	1
10	LHR0529	PLATE	N/A	2
11	LHR0439	VIBRATOR WEIGHT	000593982	4
12	LHR0411	BUSHING	000593915	4
13	LHR0408	BEARING COVER	000594156	1
14	LHR0406	COVER	000594105	1
15	LHR0403	FLANGE	000356654	2
16	LHR0476	SPACER	000594091	2
17	LHR0415	CROWN NUT	000210706 / 2E2236	2
18	LHR0413	COLLAR NUT	000357766 / UD64.340	2
19	LHR0429	RING	000593877	2
20	LHR0418	KEY	DIN6885-20X12X80	4
21	LHR0417	LOWER SHAFT	000593885	1
22	LHR0419	KEY	DIN6885-20X12X61	2
23	LHR0512	COVER PLATE	GLF311.301-15	1
24	LHR0405	COVER	000594024	1
25	LHR0545	COVER PLATE	GLF70.211	2



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VIBRATOR UNIT

PART# **LHR0445**

SHEET 1 OF 3

DWG NO LHR0445PP.idw

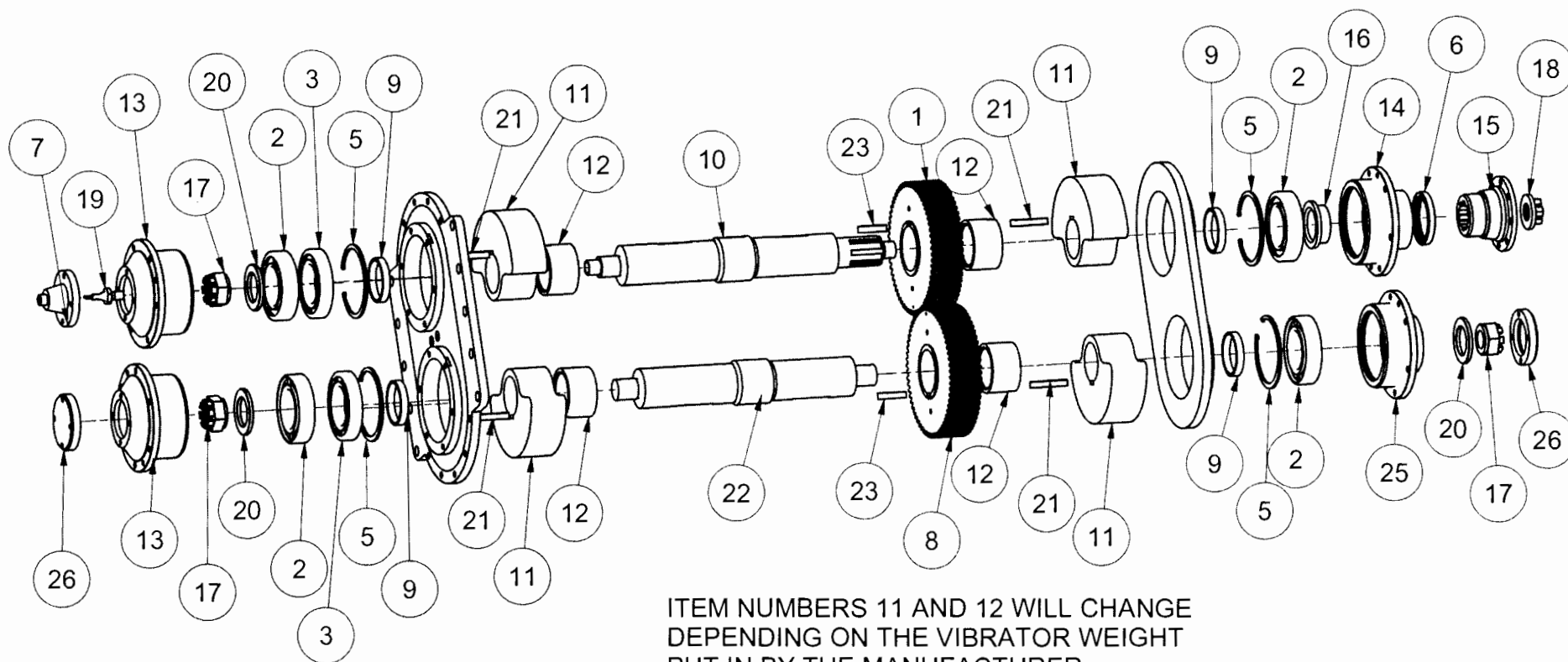
REV 000

DRAWN BY BSchroyer

DATE 1/15/2003

REPLACES: GLF311.809

WEIGHT



ITEM NUMBERS 11 AND 12 WILL CHANGE
DEPENDING ON THE VIBRATOR WEIGHT
PUT IN BY THE MANUFACTURER.
USE GIVEN PART NUMBERS FOR 75 MM WEIGHT
WIDTH.

IF VIBRATOR WEIGHT IS 90 MM WIDE USE THE
FOLLOWING PART NUMBERS:
11 VIBRATOR WEIGHT LHR1000
12 VIBRATOR SPACER LHR1001



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VIBRATOR UNIT

PART# **LHR0445**

SHEET 2 OF 3

DWG NO LHR0445PP.idw

REV 000

DRAWN BY BSchroyer

DATE 1/15/2003

REPLACES: GLF311.809

WEIGHT

Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	REQ'D
1	LHR0221	UPPER GEAR	GLF70.228	1
2	LHP0061	CYLINDRICAL ROLLER BRG	000350621	2
3	LHP0062	BALL BEARING	000350680	1
5	LHP0294	SNAP RING	000260703	4
6	LHP0285	SINGLE LIP SEAL	85X105X13	1
7	LHR0430	VIBRATOR COVER	GLF70.259	1
8	LHR0542	LOWER GEAR	GLF70.206	1
9	LHR0410	BUSHING	BUSHING	4
10	LHR0414	UPPER SHAFT	000594148	1
11	LHR0439	VIBRATOR COUNTER WEIGHT	000593982	4
12	LHR0411	BUSHING	000593915	4
13	LHR0407	COVER	000562920	2
14	LHR0406	COVER	000594105	1
15	LHR0403	FLANGE	000499463	1
16	LHR0476	SPACER	GLF70.208	1
17	LHR0415	CROWN NUT	2E2236	3
18	LHR0413	COLLAR NUT	UD64.340	1
19	LHR0416	CARRIER	000357812	1
20	LHR0429	RING	000593877	3
21	LHR0418	KEY	000593893	4
22	LHR0417	LOWER SHAFT	000593885	1
23	LHR0419	KEY	000593907	2
24	LHR0512	FRONT PLATE	GLF311.301-15	1
25	LHR0405	COVER	000594024	1
26	LHR0545	COVER PLATE	GLF70.211	2



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VIBRATOR UNIT

PART# **LHR0445**

SHEET 3 OF 3

DWG NO LHR0445PP.idw

REV 000

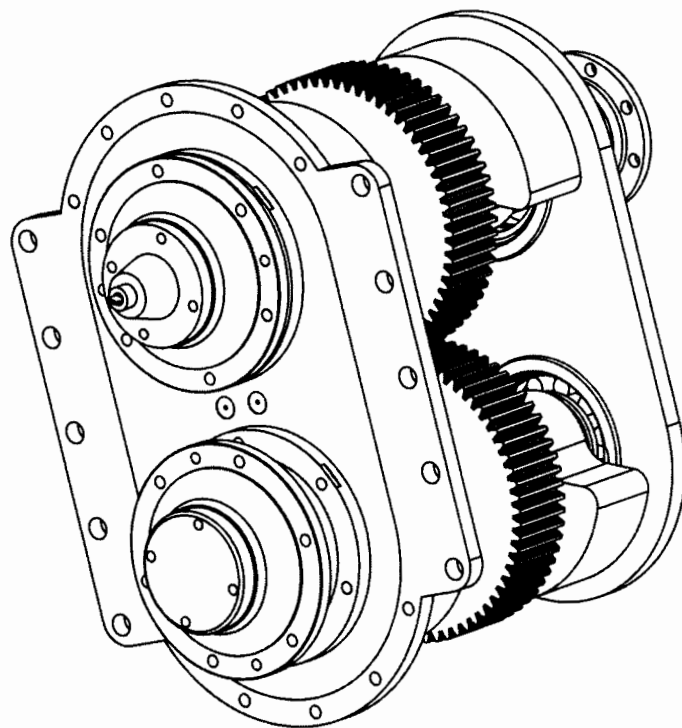
DRAWN BY BSchroyer

DATE 1/15/2003

REPLACES: GLF311.809

WEIGHT

ISOMETRIC VIEW



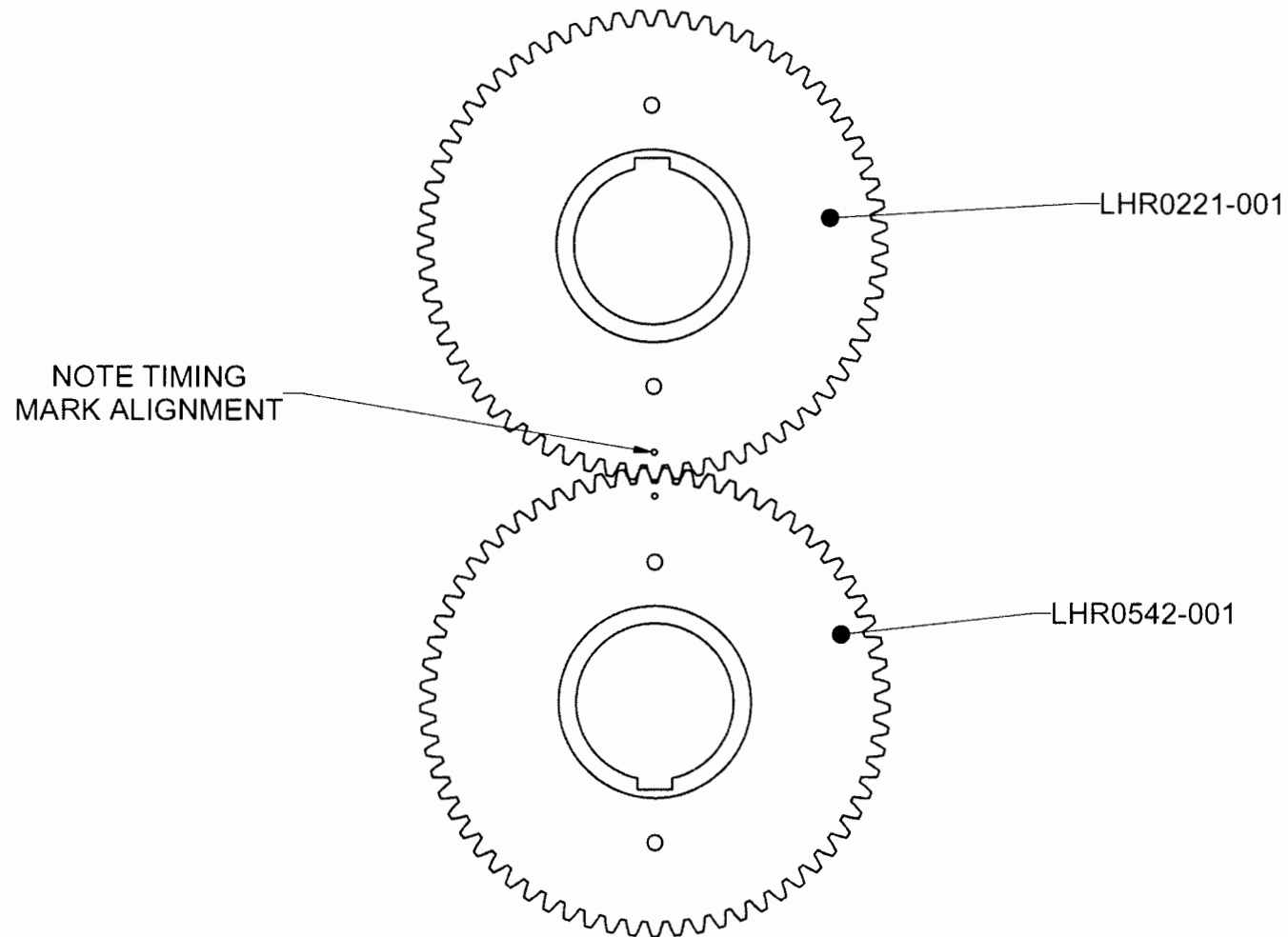


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VIBRATOR GEARS

PART# VIB GEAR ASY	SHEET 1 OF 1
DWG NO VIB GEAR ASY.idw	REV 000
DRAWN BY BSchroyer	DATE 5/27/2003
REPLACES: -	WEIGHT





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ISOLATOR MOUN, WELDMENT

PART #: LHR0532

SHEET: 1 OF 1

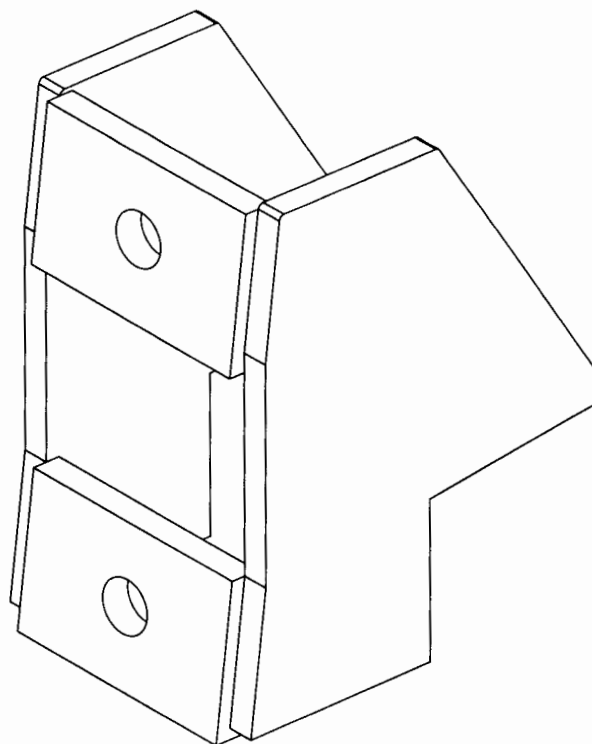
DWG. #: LHR0500

REV. #: 001

DRAWN BY: WS

DATE: 9/23/1999

REPLACES: -





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AXLE ASSEMBLY

PART# **LHR0428**

SHEET 1 OF 2

DWG NO LHR0428.idw

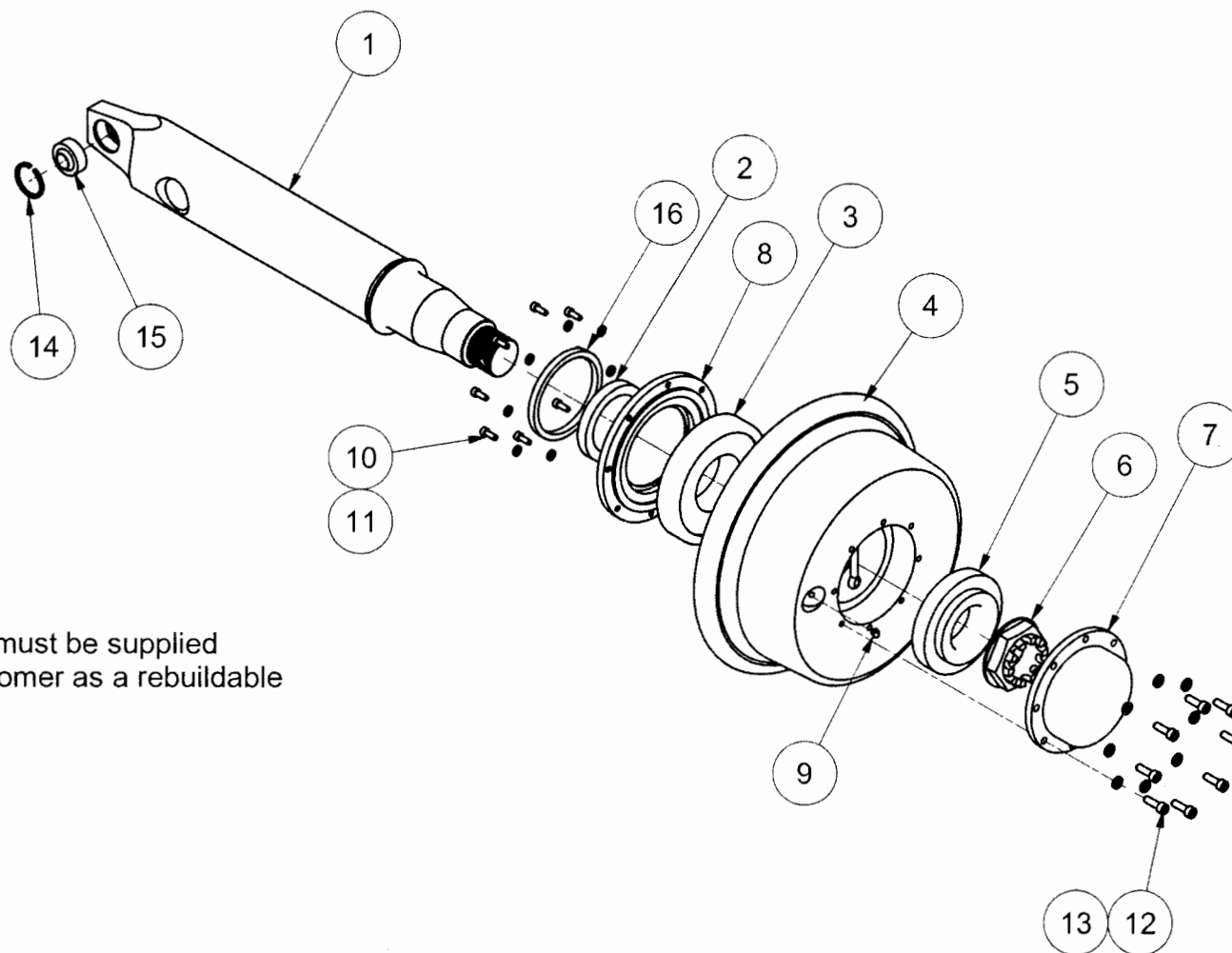
REV 000

DRAWN BY BSchroyer

DATE 12/31/2002

REPLACES: GLF311.840

WEIGHT APPROX. 215 LBS



NOTE:
Item 4 must be supplied
by customer as a rebuildable
wheel.



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AXLE ASSEMBLY

PART# LHR0428	SHEET 2 OF 2
DWG NO LHR0428.idw	REV 000
DRAWN BY BSchroyer	DATE 12/31/2002
REPLACES: GLF311.840	WEIGHT APPROX. 215 LBS

Parts List

ITEM	PART NUMBER	DESCRIPTION	REPLACES	WT	REQ'D
1	LHR0128	AXLE	000218251	54	1
2	LHR0130	SEAL COLLAR	GLF311.842	0.7	1
3	LHP0091	BEARING	31315		1
4	LHR0402	WHEEL	GLF311.841	146	1
5	LHP0092	BEARING	31312		1
6	LHR0129	NUT	GLF311.845	1.3	1
7	LHR0399	COVER	GLF311.846	3.0	1
8	LHR0409	FLANGE RING	GLF311.843	3.5	1
9	F GZ0008	1/4" STRAIGHT GREASE ZERK	DIN912-R1/4"		1
10	F SHCS M 6-1X 12	6MM SOCKET HEAD CAP SCREW	DIN6912-6X12		8
11	F W LOCK 6MM HI COLLAR	6MM LOCK WASHER HIGH COLLAR	NA		8
12	F SHCS M 8-1.25X 20	8MM SOCKET HEAD CAP SCREW	DIN912-8X20		8
13	F W LOCK 8MM HI COLLAR	8MM LOCK WASHER HIGH COLLAR	NA		8
14	LHP0297	SNAP RING	HO-165		1
15	LHP0103	SPHERICAL PLAIN BEARING	GE 25 ES	0.5	1
16	LHP5153	115 X 100 X 9 SEAL	BA100X115X9	0.4	1
17	F COTTER .3125X 5.0	COTTER PIN	NA		1



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CLAMP CYLINDER ASSEMBLY

PART #: LHR0605

SHEET: 1 OF 2

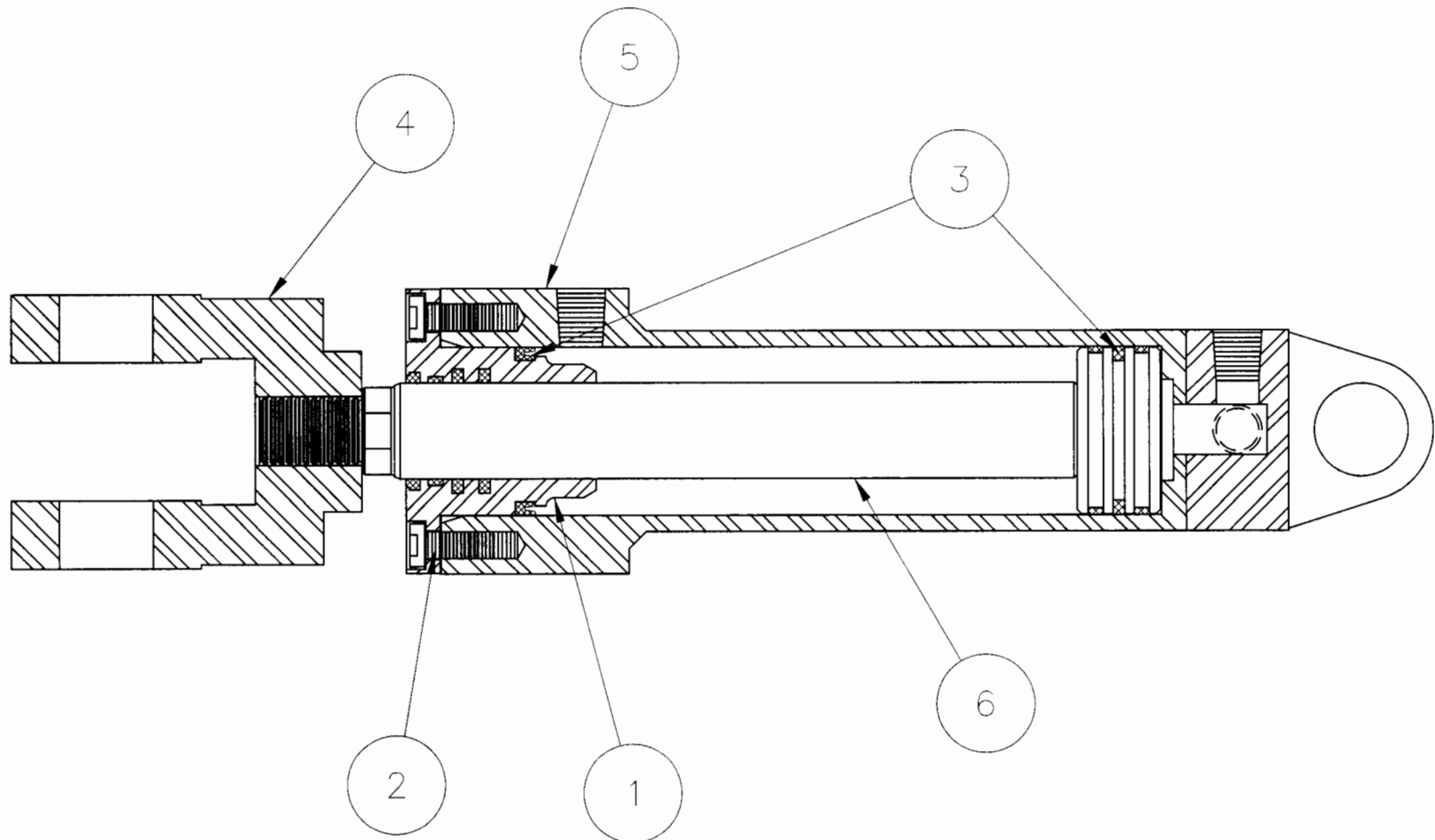
DWG. #: LHR0605_001

REV. #: 000

DRAWN BY: BAM

DATE: 3/10/1999

REPLACES: -





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CLAMP CYLINDER ASSEMBLY

PART #: LHR0605	SHEET: 2 OF 2
DWG. #: LHR0605_001	REV. #: 000
DRAWN BY: BAM	DATE: 3/10/1999
REPLACES: —	

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0489	END CAP/GLAND	—		1
2	F SCHS M 10-1.5X 25	M10-1.5MM BOLT	—		8
3	LHR0546SK	SEAL KIT	—		1
4	LHR0494	MOD. YOKE	—		1
5	LHR0492	CYLINDER	—		1
6	LHR0493	PISTON/ROD	—		1



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PLASSER 0932 VIBRATOR ASSEMBLY

PART #: LHR0329

SHEET: 1 OF 5

DWG. #: LHR0329_6

REV. #: 6

DRAWN BY: BAM

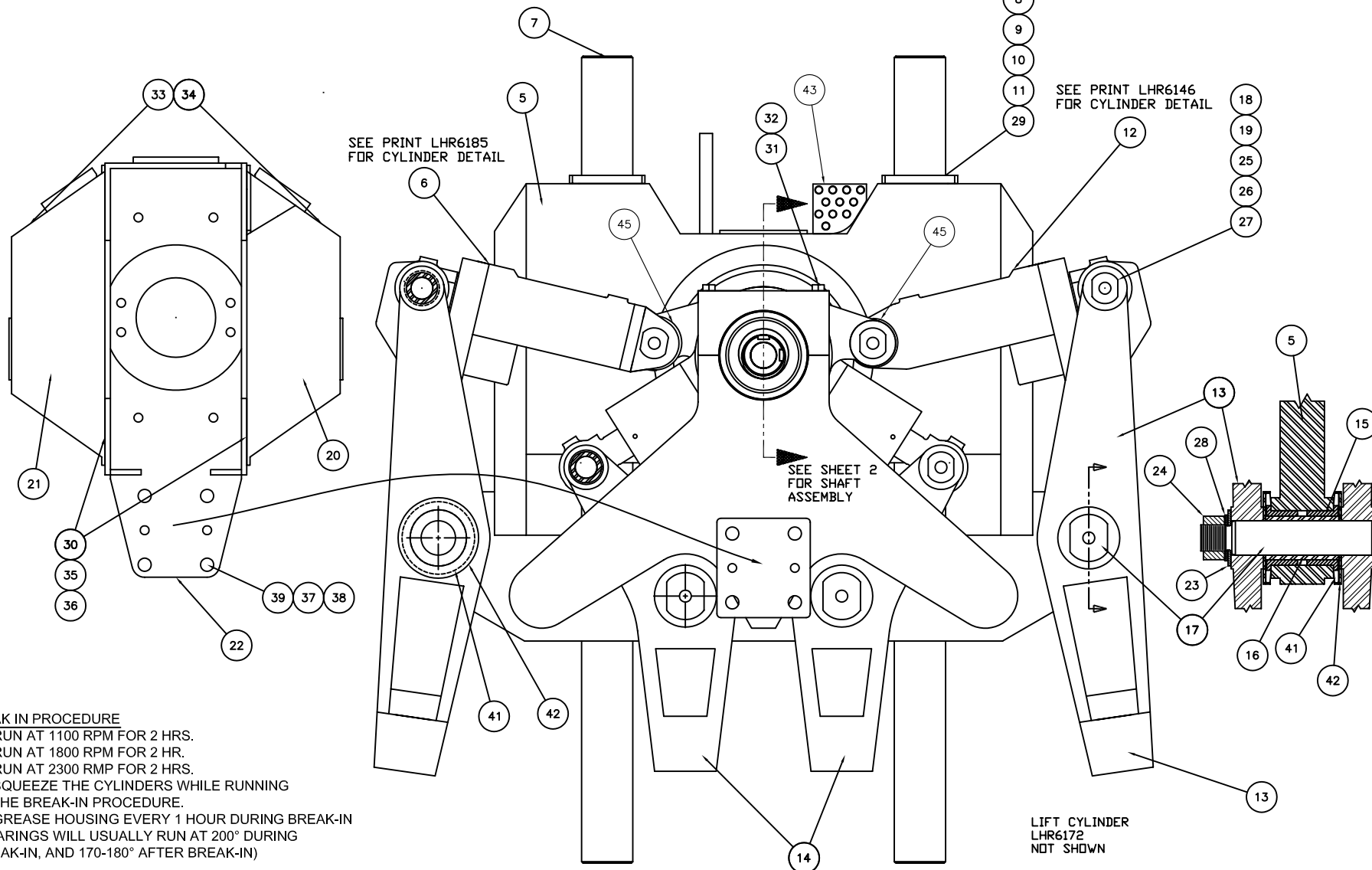
DATE: 9/20/1999

REPLACES: CU21.2000B-Z(L/R)

NOTES

- 1) USE ONLY 930AA LUBRIPLATE GREASE.
- 2) RIGHT HAND FRAME'S TURN CLOCKWISE.
- 3) LEFT HAND FRAMES TURN COUNTERCLOCKWISE.
- 4) TAKES 44 G.P.M. OF HYDRAULIC FLUID TO TURN THE MAIN SHAFT.

FULL ASSEMBLY SHIPPING WEIGHT = 5050 LBS.





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PLASSER 0932 VIBRATOR ASSEMBLY

PART #: LHR0329

SHEET: 2 OF 5

DWG. #: LHR0329_6

REV. #: 6

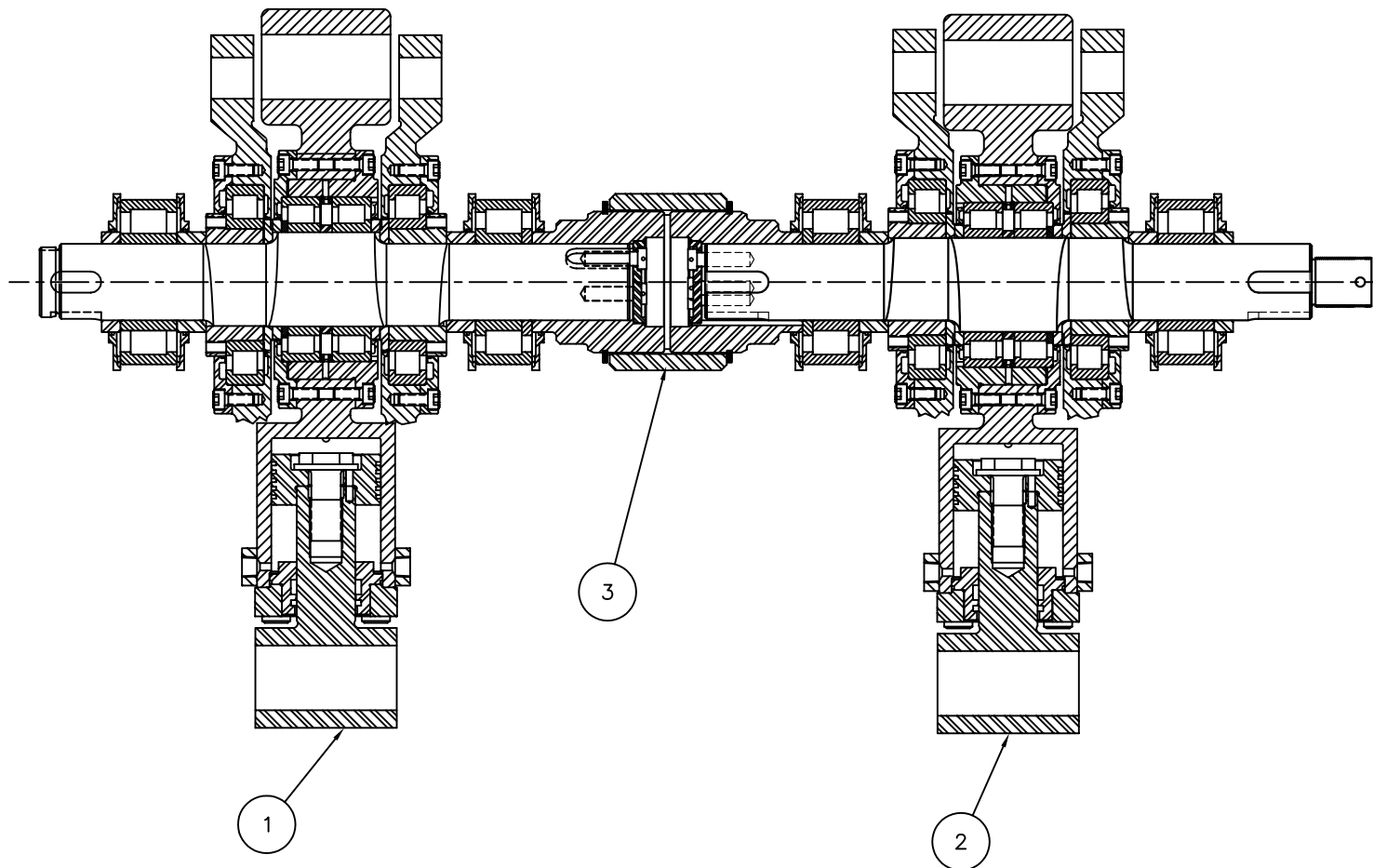
DRAWN BY: BAM

DATE: 9/20/1999

REPLACES: CU21.2000B-Z(L/R)

NOTES

- 1) USE ONLY 930AA LUBRIPLATE.
- 2) RIGHT HAND FRAME'S TURN CLOCKWISE.
- 3) LEFT HAND FRAMES TURN COUNTERCLOCKWISE.
- 4) TAKES 44 G.P.M. OF HYDRAULIC FLUID TO TURN THE MAIN SHAFT.



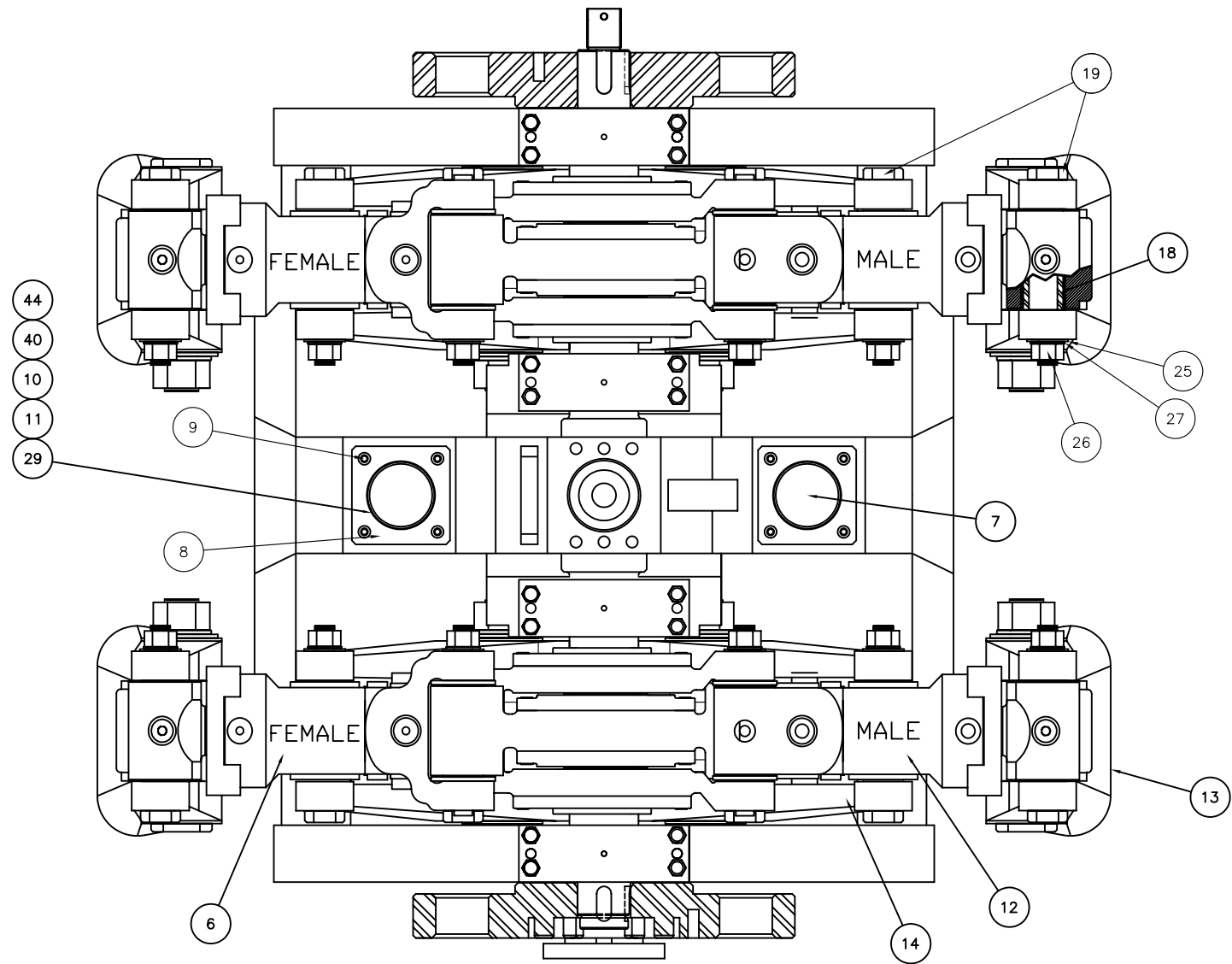
FULL ASSEMBLY SHIPPING
WEIGHT = 5050 LBS.



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PLASSER 0932 VIBRATOR ASSEMBLY	
PART #: LHR0329	SHEET: 3 OF 5
DWG. #: LHR0329_6	REV. #: 6
DRAWN BY: BAM	DATE: 9/20/1999
REPLACES: CU21.2000B-Z(L/R)	



MOTOR MOUNT



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PLASSER 0932 VIBRATOR ASSEMBLY

PART #: LHR0329

SHEET: 4 OF 5

DWG. #: LHR0329_6

REV. #: 6

DRAWN BY: BAM

DATE: 9/20/1999

REPLACES: CU21.2000B-Z(L/R)

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR6194	SHAFT ASSEMBLY – MOTOR SIDE		31.7	1
2	LHR6193	SHAFT ASSEMBLY – NON MOTOR SIDE		33.7	1
3	LHR0381	COUPLER	CU20.414	11.0	1
5	LHR6154R/L	FRAME	CU21.2001R/L		1
6	LHR6185	CYLINDER ARM (FEMALE) ASSEMBLY	CU21.2461		2
7	LHR6167	GUIDE ROD	UD67.752		2
8	LHR6170	GUIDE ROD PLATE	DL12.51		4
9	F B M 8–1.25X20	M8 X 1.25 X 20 BOLT	DIN6912:8X20		16
10	LHR6169	GUIDE ROD BUSHING	DL12.06E		4
11	LHR6268	GUIDE ROD SEAL	U400.325		4
12	LHR6146	CYLINDER ARM (MALE) ASSEMBLY	CU21.2460		2
13	LHR6161	TAMPING ARM (LONG)	2E34.212A		4
14	LHR6160	TAMPING ARM (SHORT)	2E34.213A		4
15	LHR6180–001	BUSHING	2E34.210		16
16	LHR6168	SLEEVE	2E31.02A		8
17	LHR6157	PIN	2E31.04		8
18	LHR6177	SLEEVE	G20.26B		12
19	LHR6158	PIN (SHORT)	G20.13		12
20	LHR6192FR/L	OIL RESEVOIR (FRONT RIGHT/LEFT)	CU21.2052R		1
21	LHR6192BR/L	OIL RESEVOIR (BACK RIGHT/LEFT)	CU21.2052L		1
22	LHR6165	BEARING ARMS MOUNT/COVER	CU21.2051L:R		1
23	NONE	42MM WASHER/DISC	2E32.05		8



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PLASSER 0932 VIBRATOR ASSEMBLY

PART #: LHR0329	SHEET: 5OF 5
DWG. #: LHR0329_6	REV. #: 6
DRAWN BY: BAM	DATE: 9/20/1999
REPLACES: CU21.2000B-Z(L/R)	

Item	Part Number	Description	Replaces	Wt.	Req'd
24	NONE	M42 X 1.5MM NUT	DIN934-42X15		8
25	LHR6288	24MM WASHER	DIN1440-25		12
26	NONE	M24 X 1.5MM NUT	DIN934-24X15		12
27	NONE	24MM SPLIT LOCKWASHER	DIN1980-24		12
28	NONE	42MM SPLIT LOCKWASHER	DIN1980-42		8
29	LHR6270	4 3/4" SQUARE GASKET(0.035THK)	DL12.08		4
30	NONE	HEX HD. 10M X 1.5MM BOLT	DIN933-10X20		14
31	LHR6182	BEARING HOUSING DOWEL	CU21.1801:15		8
32	LHR6181	BEARING HOUSING BOLT	CU21.110:14		16
33	NONE	FILLER CAP	ELF4-40-1.0		2
34	NONE	10-32X1/2"L BOLT W/ LOCKWASHER	DIN933-5X10		12
35	NONE	10MM LOCKWASHER	DIN127-10		14
36	NONE	10MM LOCK NUT	DIN985-10		14
37	LHR6264	HEX HD. 20MM BOLT	DIN931:20x75		4
38	NONE	20MM LOCKWASHER	DIN127:20GD2		4
39	NONE	20MM HEX NUT	DIN934-20		4
40	LHP0117	FELT RING	FL18-9X7.5X		4
41	LHP0223	SEAL RING (BY CR SEAL CO.)	20679-SS		16
42	LHR6122	GREASE RETAINER	2E34.211		16
43	LHR6250	CROSSOVER BLOCK	NONE		1
44	LHP0152	86X6MM O-RING	86X6		4
45	LHR6272	WASHER SPACER	2E34.228		8



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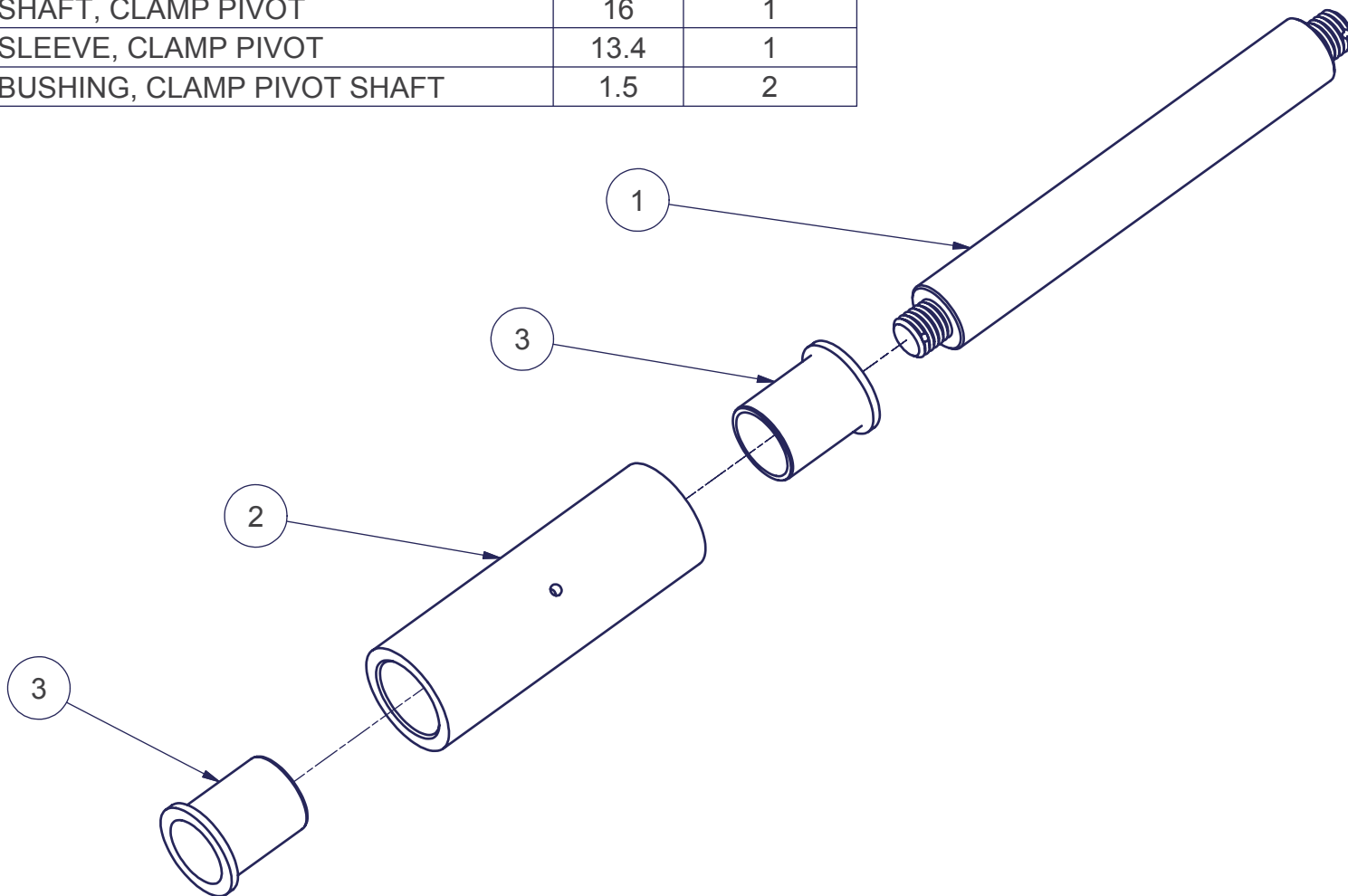
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PTS 61 OR 62 VIBRATOR CLAMP PIVOT SHAFT ASSEMBLY

PART# LHR1114	SHEET 1 OF 1
DWG NO LHR1114.idw	REV
DRAWN BY sgeertson	DATE 1/23/2004
REPLACES: LHR0510	WEIGHT 30 LBS

Parts List

ITEM	PART NUMBER	DESCRIPTION	WT	REQ'D
1	LHR1113	SHAFT, CLAMP PIVOT	16	1
2	LHR1112	SLEEVE, CLAMP PIVOT	13.4	1
3	LHR1115	BUSHING, CLAMP PIVOT SHAFT	1.5	2





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PLASSER PTS

ADJUSTABLE RADIUS ROD

PART# **LHR1121**

SHEET 1 OF 1

FILE ID: LHR1121.idw

REV

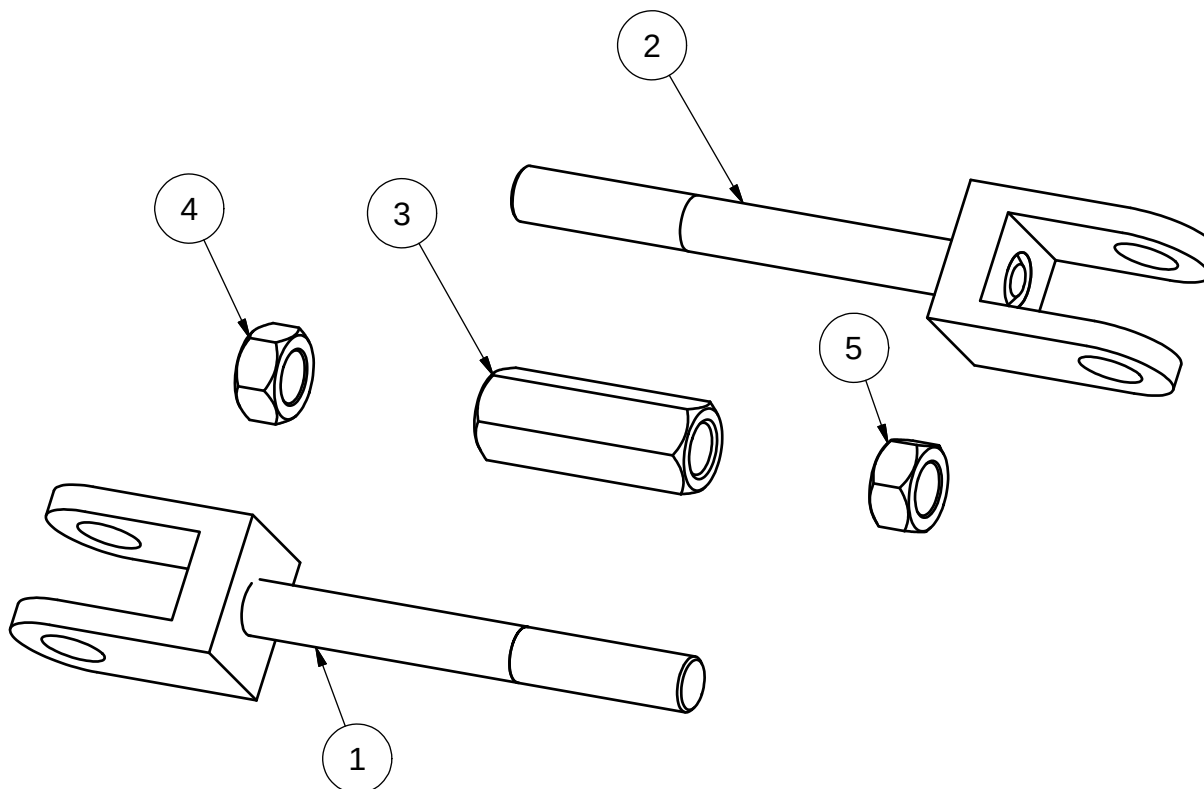
DRAWN BY: sgeertson

DATE 2/23/2004

REPLACES:

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	LHR1131	ROD WELDMENT - RH
2	1	LHR1132	ROD WELDMENT - LH
3	1	LHR1126	THREADED COUPLER
4	1		M30x1.5 - 6G RH NUT
5	1		M30x1.5 - 6G LH NUT





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PLASSER VIBRATOR ARM ASSEMBLY

PART #: LHR6141

SHEET: 1 OF 2

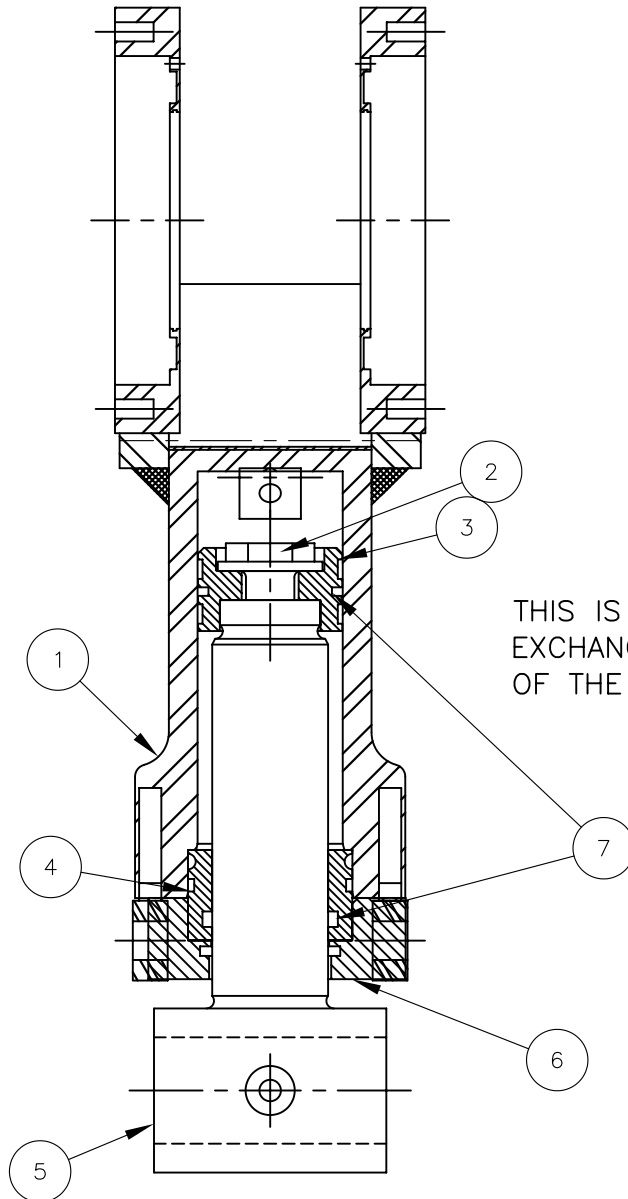
DWG. #: LHR6141

REV. #: 000

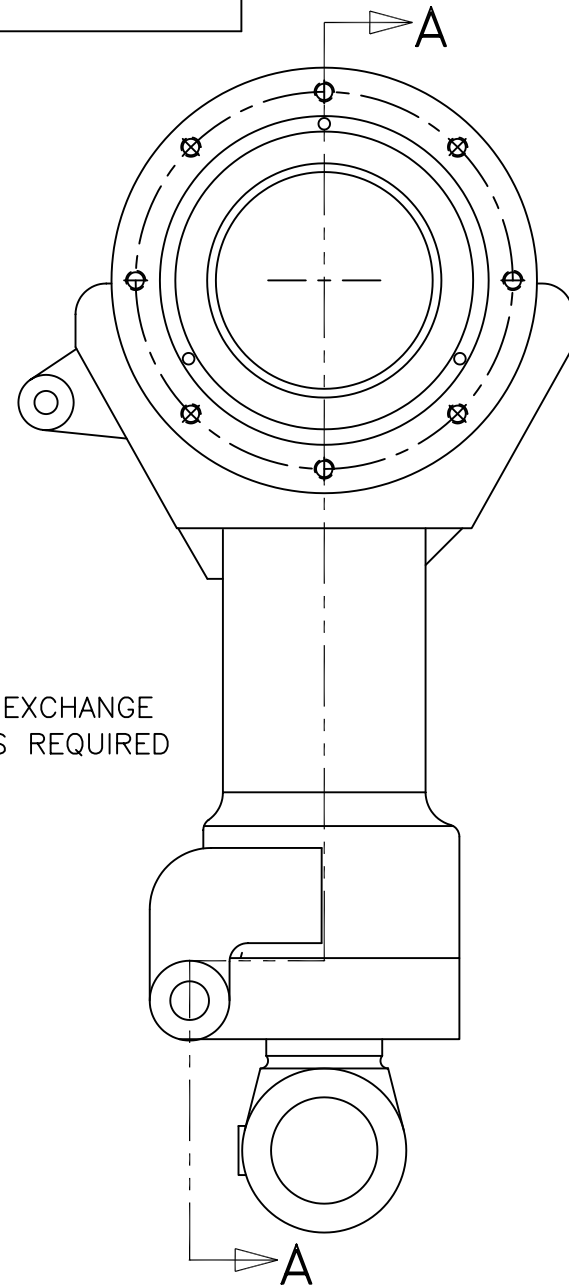
DRAWN BY: WS

DATE: 2/7/2000

REPLACES: —



THIS IS A "CORE"
EXCHANGE/REBUILD ITEM, EXCHANGE
OF THE 'VIBRATOR ARM' IS REQUIRED





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PLASSER VIBRATOR ARM ASSEMBLY

PART #: LHR6141

SHEET: 2 OF 2

DWG. #: LHR6141

REV. #: 000

DRAWN BY: WS

DATE: 2/7/2000

REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR6111	VIBRATOR ARM (FEMALE)			1
2	LHR0448	PISTON BOLT			1
3	LHR6134	PISTON			1
4	LHR6135	WEAR GLAND			1
5	LHR6133	PISTON ROD			1
6	LHR6136	CYLINDER CAP			1
7	LHR6141SK	SEAL KIT			1

PLASSER VIBRATOR ARM ASSEMBLY(MALE)

PART #: LHR6142

SHEET: 1 OF 2

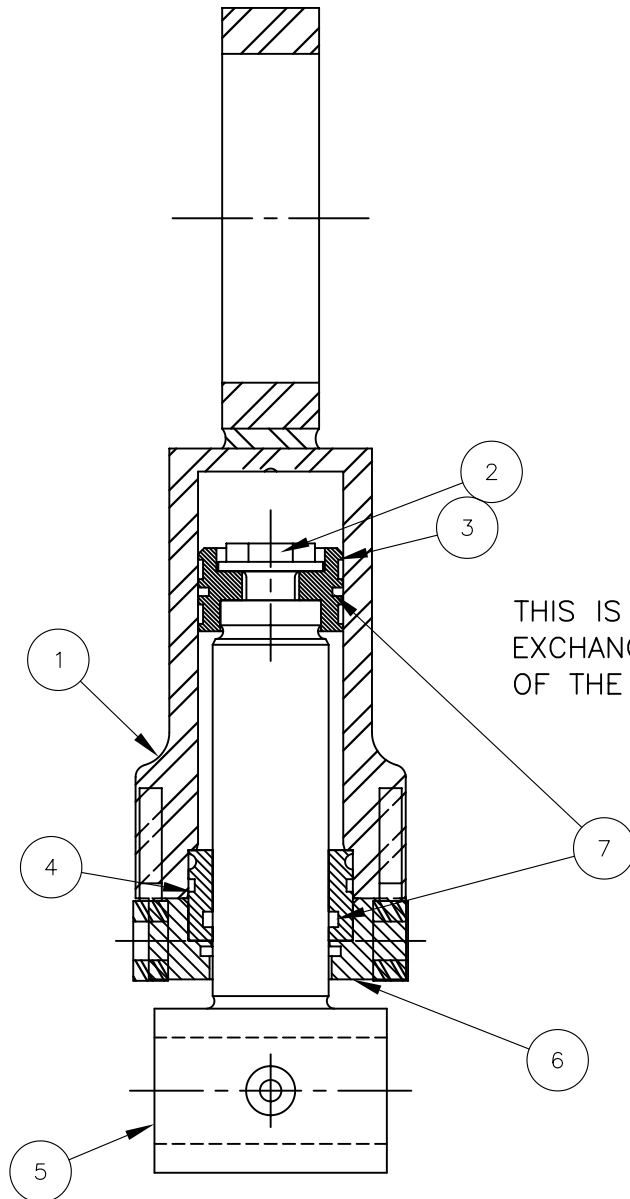
DWG. #: LHR6142

REV. #: 000

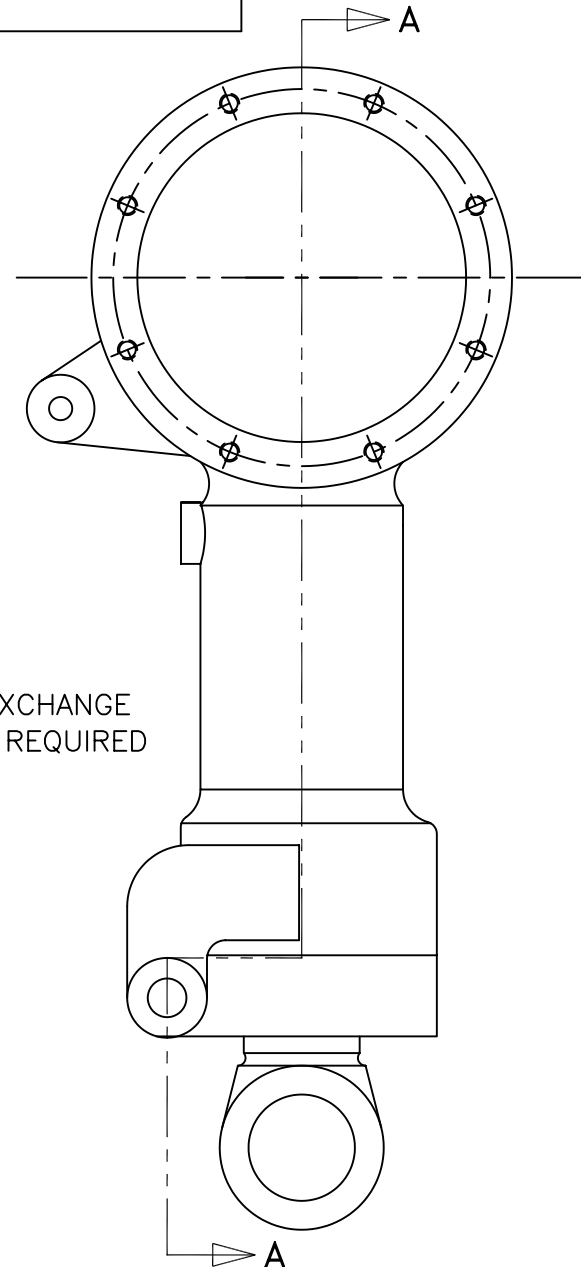
DRAWN BY: WS

DATE: 2/7/2000

REPLACES: —



THIS IS A "CORE"
EXCHANGE/REBUILD ITEM, EXCHANGE
OF THE 'VIBRATOR ARM' IS REQUIRED





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PLASSER VIBRATOR ARM ASSEMBLY(MALE)

PART #: LHR6142

SHEET: 2 OF 2

DWG. #: LHR6142

REV. #: 000

DRAWN BY: WS

DATE: 2/7/2000

REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR6110	VIBRATOR ARM (MALE)			1
2	LHR0345	PISTON BOLT			1
3	LHR6134	PISTON			1
4	LHR6135	WEAR GLAND			1
5	LHR6133	PISTON ROD			1
6	LHR6136	CYLINDER CAP			1
7	LHR6141SK	SEAL KIT			1



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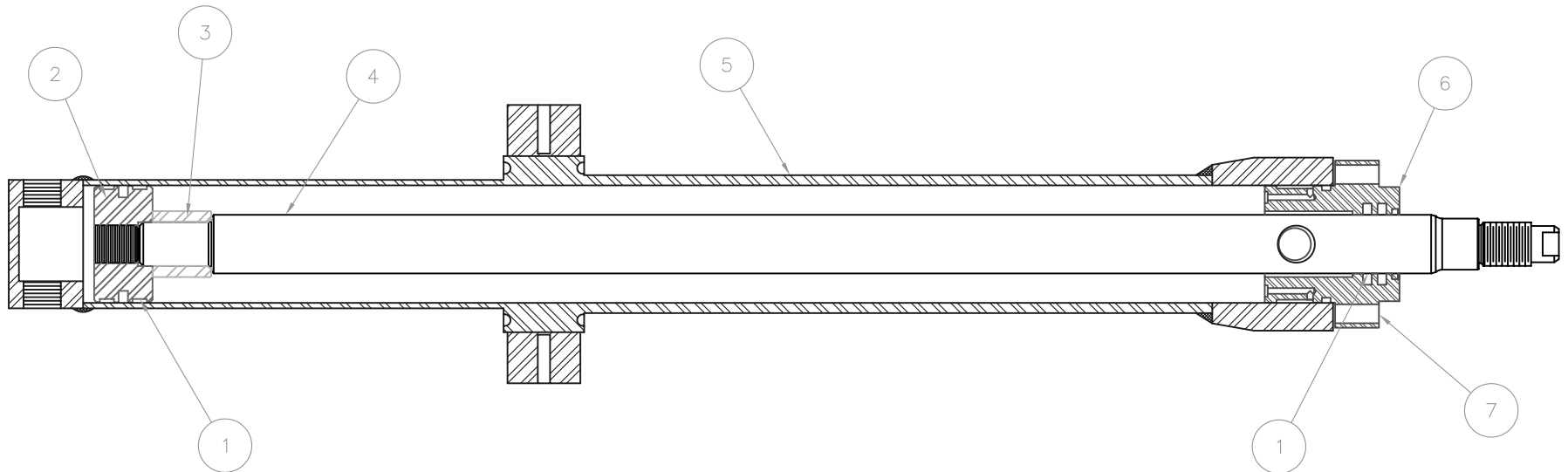
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LIFT CYLINDER ASSEMBLY

PART #: LHT6172

SHEET: 1 OF 1

DWG. #: LHR6172



Item	Part Number	Description	Replaces	Wt.	Price	Req'd
1	UNKNOWN	SEAL KIT				1
2	LHR6189	PISTON				1
3	LHR6190	STROKE LIMITER				1
4	LHR6191	ROD				1
5	LHR6171	LIFT CYLINDER HOUSING				1
6	LHR6173	GLAND				1
7	NONE	M12X1.75MM BOLT				6



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PLASSER 0932 VIBRATOR LOWER CYLINDER ARM ASSEMBLY(FEMALE)

PART #: LHR6183

SHEET: 1 OF 2

DWG. #: LHR6183

REV. #: 1

DRAWN BY: BAM

DATE: 10/11/2000

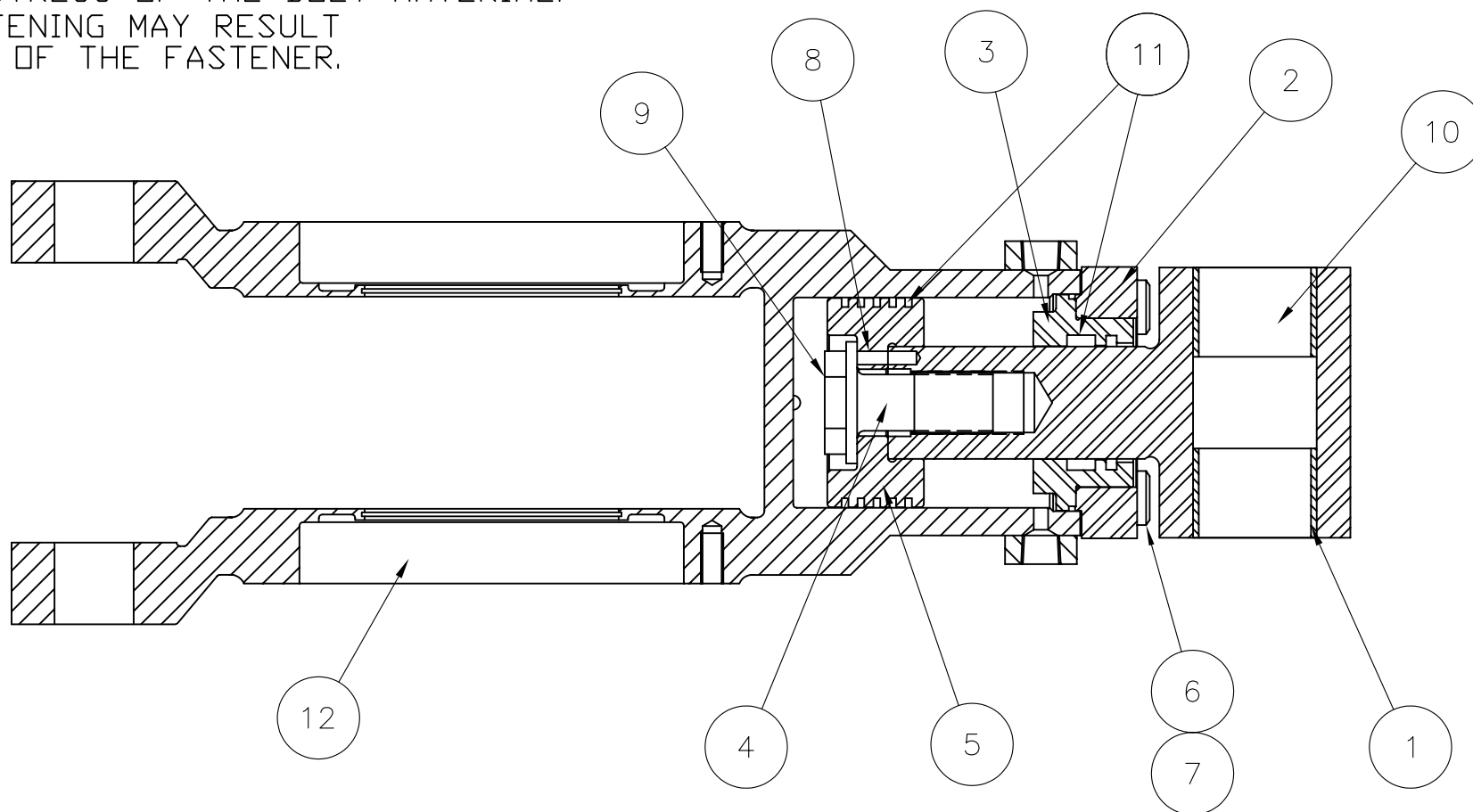
REPLACES: HZSI-G.57.5.403

INSTALLATION NOTES:

1) ALL BOLTS ARE TO BE THREAD LOCKED
WITH HERNON MEDIUM LOCK TITE.
PART NUMBER 342330.

2) TORQUE VALUES ARE BASED
ON PROOF STRESS OF THE BOLT MATERIAL.
OVER TIGHTENING MAY RESULT
IN FAILURE OF THE FASTENER.

TORQUE ITEM #4 TO 450 FT-LB
TORQUE ITEM #6 TO 73 FT-LB





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PLASSER 0932 VIBRATOR LOWER CYLINDER ARM ASSEMBLY(FEMALE)

PART #: LHR6183

SHEET: 1 OF 2

DWG. #: LHR6183

REV. #: 1

DRAWN BY: BAM

DATE: 10/11/2000

REPLACES: HZSI-G.57.5.403

Item	Part Number	Description	Replaces	Wt.	Price	Req'd
1	LHR0342	PISTON RAM	2E35.306	11.2		1
2	LHR0383	PISTON END CAP	2E35.314	4.6		1
3	LHR0344	PACKING GLAND	2E35.211	2.1		1
4	LHR0345	PISTON BOLT	2E36.48	1.5		1
5	LHR0341	PISTON	2E35.303	3.6		1
6	F SHCS M 16-2.0X40	M16 X 2 X 40 SHCS	DIN6912-16X			4
7	F W LOCK M16 RIB	16MM VIBRATION LOCKWASHER	DIN6797-FZI			4
8	LHR0385	DOWEL PIN	DIN7-6X16	0.1		1
9	F SHSS M 6-1.0X20	6mm SETSCREW 20mm LG.	DIN914-6X8			1
10	LHP0093	SPLIT STEEL BUSHING	G20.26b			2
11	LHR6183SK	SEAL KIT	HZS-DS.401	0.1		1
12	LHR0335	HOUSING-OUTSIDE	2E33.21			1



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PLASSER 0932 VIBRATOR LOWER CYLINDER ARM ASSEMBLY(MALE)

PART #: LHR6184

SHEET: 1 OF 2

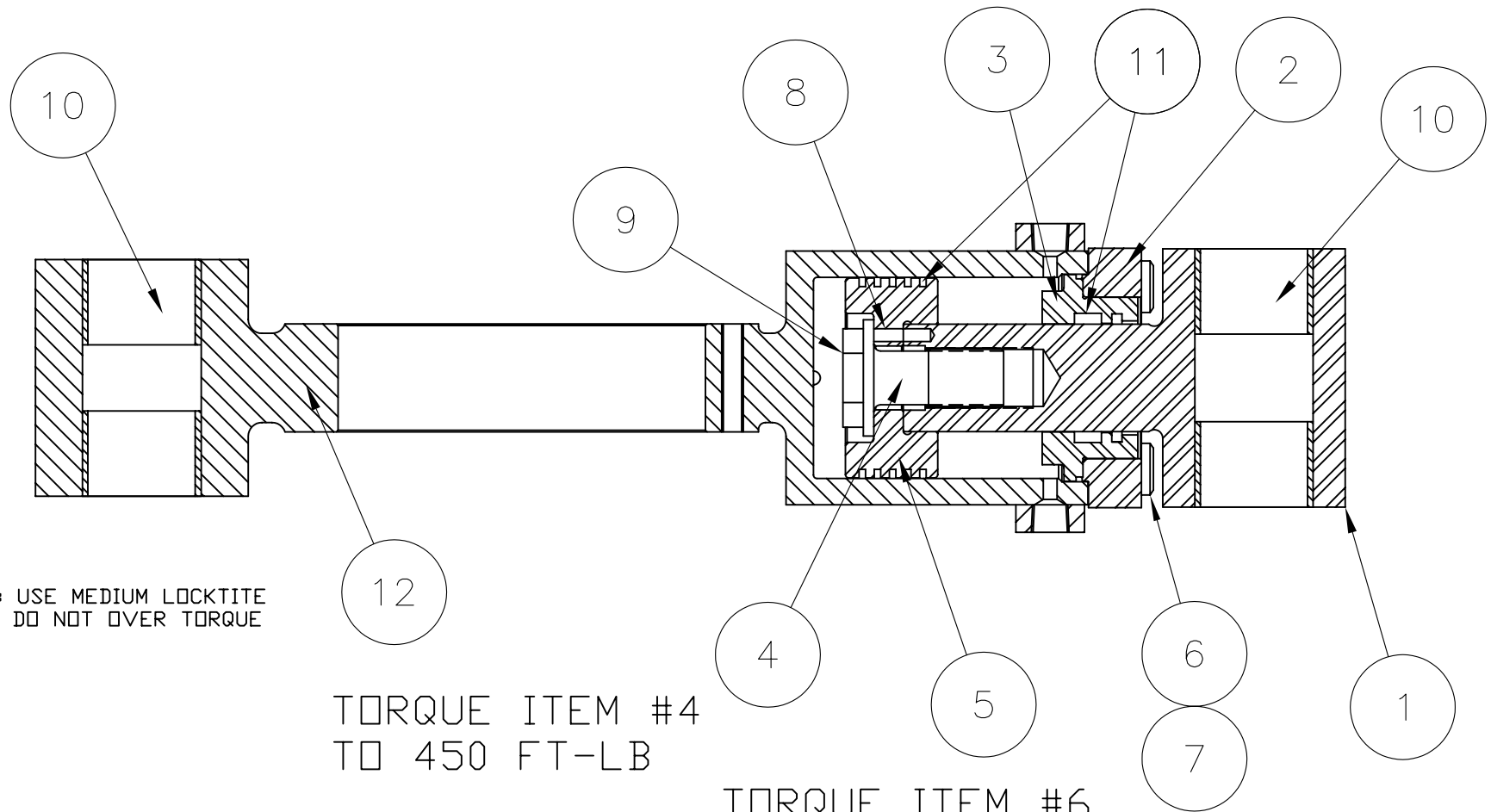
DWG. #: LHR6184

REV. #: 1

DRAWN BY: BAM

DATE: 10/11/2000

REPLACES: HZSI-A.57.5.404



NOTE: USE MEDIUM LOCKTITE
DO NOT OVER TORQUE

TORQUE ITEM #4
TO 450 FT-LB

TORQUE ITEM #6
TO 73 FT-LB



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PLASSER 0932 VIBRATOR LOWER CYLINDER ARM ASSEMBLY(MALE)

PART #: LHR6184

SHEET: 2 OF 2

DWG. #: LHR6184

REV. #: 1

DRAWN BY: BAM

DATE: 10/11/2000

REPLACES: HZSI-A.57.5.404

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0342	PISTON RAM	2E35.306	11.2	1
2	LHR0383	PISTON END CAP	2E35.314	4.6	1
3	LHR0344	PACKING GLAND	2E35.211	2.1	1
4	LHR0345	PISTON BOLT	2E36.48	1.5	1
5	LHR0341	PISTON	2E35.303	3.6	1
6	F SHCS M 16-2.0X40	M16 X 2 X 40 SHCS	DIN6912-16X		4
7	F W LOCK M16 RIB	16MM VIBRATION LOCKWASHER	DIN6797-FZI		4
8	LHR0385	DOWEL PIN	DIN7-6X16	0.1	1
9	F SHSS M 6-1.0X20	6mm SETSCREW 20mm LG.	DIN914-6X8		1
10	LHP0093	SPLIT STEEL BUSHING	G20.26b		4
11	LHR6183SK	SEAL KIT	HZS-DS.401	0.1	1
12	LHR0340	BEARING HOUSING - INNER	2E34-202B		1



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PLASSER 0932 VIBRATOR LOWER CYLINDER ARM ASSEMBLY

PART #: LHR6188

SHEET: 1 OF 2

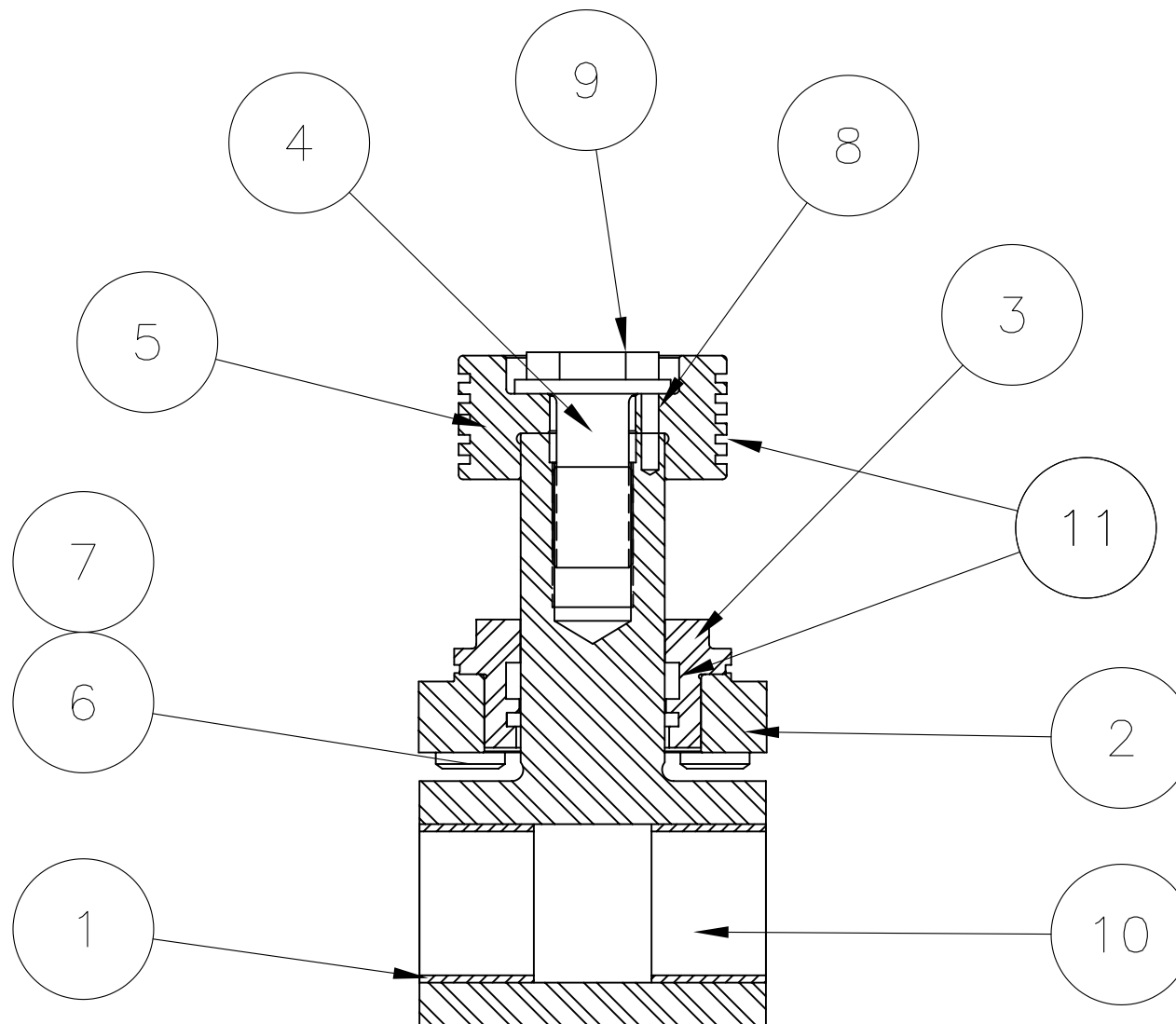
DWG. #: LHR6188

REV. #: 000

DRAWN BY: BAM

DATE: 10/11/2000

REPLACES: —





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PLASSER 0932 VIBRATOR LOWER CYLINDER ARM ASSEMBLY

PART #: LHR6188	SHEET: 2 OF 2
DWG. #: LHR6188	REV. #: 000
DRAWN BY: BAM	DATE: 10/11/2000
REPLACES: —	

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0342	PISTON RAM	2E35.306	11.2	4
2	LHR0383	PISTON END CAP	2E35.314	4.6	4
3	LHR0344	PACKING GLAND	2E35.211	2.1	4
4	LHR0345	PISTON BOLT	2E36.48	1.5	4
5	LHR0341	PISTON	2E35.303	3.6	4
6	F SHCS M 16-2.0X40	M16 X 2 X 40 SHCS	DIN6912-16X		16
7	F W LOCK M16 RIB	16MM VIBRATION LOCKWASHER	DIN6797-FZI		16
8	LHR0385	DOWEL PIN	DIN7-6X16	0.1	4
9	F SHSS M 6-1.0X 20	6mm SETSCREW 20mm LG.	DIN914-6X8		4
10	LHP0093	SPLIT STEEL BUSHING	G20.26b		24
11	LHR6183SK	SEAL KIT	HZS-DS.401	0.1	4



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PLASSER 0932 SHAFT ASSEMBLY FAR SIDE OF MOTOR

PART #: LHR6193

SHEET: 1 OF 3

DWG. #: LHR6193

REV. #: 1

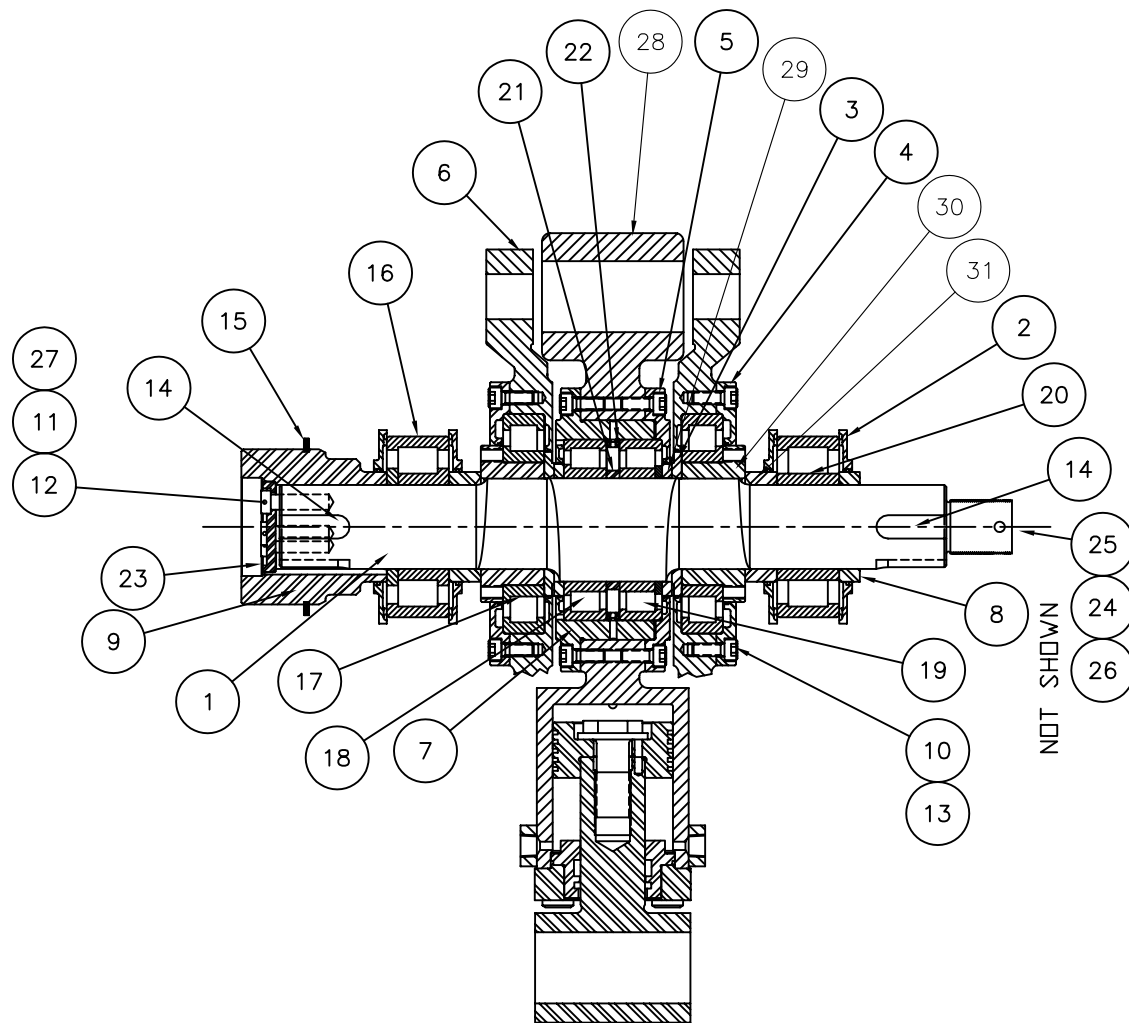
DRAWN BY: BAM

DATE: 12/13/2000

REPLACES: —

NOTES

- 1) USE ONLY 430AA GREASE.
- 2) RIGHT HAND FRAME'S TURN CLOCKWISE.
- 3) LEFT HAND FRAMES TURN COUNTERCLOCKWISE.
- 4) TAKES 44 G.P.M. OF HYDRAULIC FLUID TO TURN THE MAIN SHAFT.





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PLASSER 0932 SHAFT ASSEMBLY FAR SIDE OF MOTOR

PART #: LHR6193

SHEET: 2 OF 3

DWG. #: LHR6193

REV. #: 1

DRAWN BY: BAM

DATE: 12/13/2000

REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0324	SHAFT	CU20.402B	33.7	1
2	LHR0326	GREASE RING	U21.720	1.0	4
3	LHR0332	BEARING SPACER	2E22.08A	0.7	2
4	LHR0336	BEARING RETAINER	2E22.15	4.7	2
5	LHR0334	BEARING RETAINER	2E22.16	5.4	1
6	LHR6183	CYLINDER ARM ASSEMBLY (FEMALE)	HZSIG.57.5.403		1
7	LHR0339	BEARING SLEEVE	2E22.11	13.7	1
8	LHR0331	BEARING SPACER	CU20.410	0.6	1
9	LHR0379-001	COUPLER HALF	CU20.416	11.0	1
10	SHCS M10X1.5X25	CAPSCRW M10X1.5	DIN912:10X25		32
11	F SHCS M 12-1.5X40	M12 X 1.5 SHCS LOW HD	DIN6912-12X		3
12	LHC00899	18GA MECHANIC WIRE			1
13	F W LOCK .4375	7/16" LOCK WASHER	DIN7980-10		32
14	LHR0384	KEY	2E22.31	0.1	4
15	LHP0201	ROTOR CLIP SNAP RING	A120X4		1
16	LHP0076	FAG BEARING	NUP2313EM1AC3		1
17	LHP0012	FAG BEARING	U20.220P		2
18	LHP0013	FAG BEARING	U20.221P		1
19	LHR0460	FAG BEARING — MODIFIED	U20.223P		1
20	LHP0075	FAG BEARING	NU2313EM1C3		1
21	LHR0327	SPACER	2E22.07	0.1	1



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PLASSER 0932 SHAFT ASSEMBLY FAR SIDE OF MOTOR

PART #: LHR6193

SHEET: 3 OF 3

DWG. #: LHR6193

REV. #: 1

DRAWN BY: BAM

DATE: 12/13/2000

REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Req'd
22	LHR0338	SPACER	2E22.12		1
23	LHR0382	TIE IN PLATE	CU20.433	0.1	1
24	LHR0415	M42 X 1.5 CASTLE/CROWN NUT	2E22.36US		1
25	LHP5171	DISC	2E22.35		1
26	LHR6106	FLY WHEEL	2E22.10AS		1
27	NONE	INT. STARWASHER			3
28	LHR6184	CYLINDER ARM ASSEMBLY (MALE)	HZSIA.57.5.404		1
29	LHR0328	BEARING SPACER	2E22.06	0.4	2
30	LHR0333	BEARING SPACER/SLEEVE	2E22.09		2
31	LHR0330	BEARING SPACER	CU20.208		2



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PLASSER 0932 SHAFT ASSEMBLY MOTOR SIDE

PART #: LHR6194

SHEET: 1 OF 3

DWG. #: LHR6194 REV1

REV. #: 1

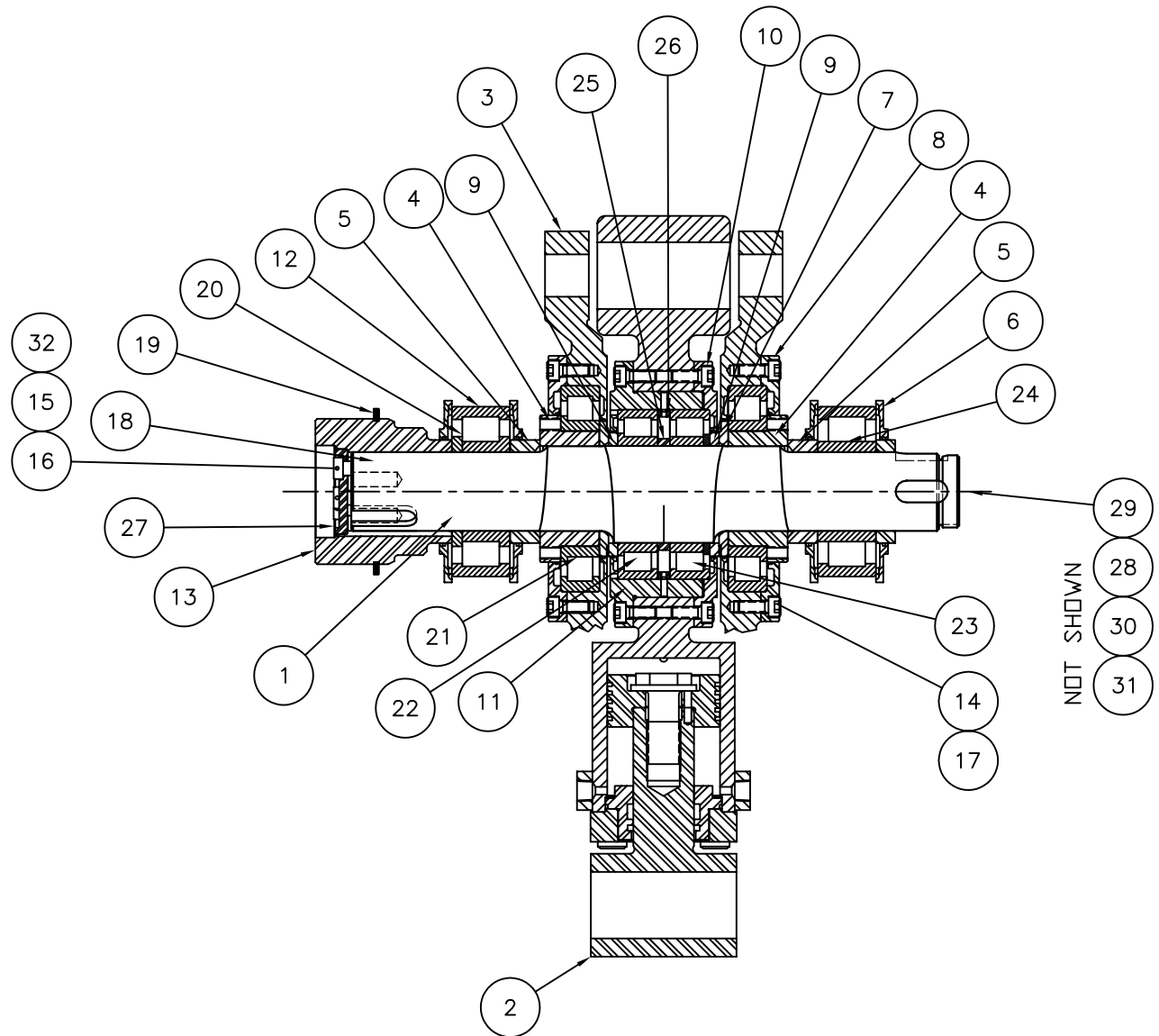
DRAWN BY: BAM

DATE: 12/6/2000

REPLACES: —

NOTES:

- 1) USE ONLY 430AA GREASE.
- 2) RIGHT HAND FRAME'S TURN CLOCKWISE.
- 3) LEFT HAND FRAMES TURN COUNTERCLOCKWISE.
- 4) TAKES 44 G.P.M. OF HYDRAULIC FLUID TO TURN THE MAIN SHAFT.





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PLASSER 0932 SHAFT ASSEMBLY MOTOR SIDE

PART #: LHR6194

SHEET: 2 OF 3

DWG. #: LHR6194 REV1

REV. #: 1

DRAWN BY: BAM

DATE: 12/6/2000

REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR0323	SHAFT	CU20.401B	33.7	1
2	LHR6183	CYLINDER ARM ASY — (FEMALE)	HZSIG.57.5.403	11.2	2
3	LHR6184	CYLINDER ARM ASY — (MALE)	HZSIA.57.5.404		1
4	LHR0333	BEARING SPACER / SLEEVE	2E22.09	5.5	2
5	LHR0330	BEARING SPACER	CU20.208	1.0	2
6	LHR0326	GREASE RING	U21.720	1.0	4
7	LHR0332	BEARING SPACER	2E22.08A	0.7	2
8	LHR0336	BEARING RETAINER	2E22.15	4.7	2
9	LHR0328	BEARING SPACER	2E22.06	0.4	2
10	LHR0334	BEARING RETAINER	2E22.16	5.4	1
11	LHR0339	BEARING SLEEVE	2E22.11	13.7	1
12	LHR0331	BEARING SPACER	CU20.410	0.6	1
13	LHR0380	COUPLER HALF	CU20.415	11.0	1
14	SHCS M10X1.5X25	CAPSCRW M10X1.5	DIN912:10X25		32
15	F SHCS M 12-1.5X40	M12 X 1.5 SHCS LOW HD	DIN6912-12X		3
16	LHC00899	18GA MECHANIC WIRE			1
17	F W LOCK .4375	7/16" LOCK WASHER	DIN7980-10		32
18	LHR0384	KEY	2E22.31	0.1	4
19	LHP0201	ROTOR CLIP SNAP RING	A120X4		1
20	LHP0076	FAG BEARING	NUP2313EM1AC3		1
21	LHP0012	FAG BEARING	U20.220P		2
22	LHP0013	FAG BEARING	U20.221P		1
23	LHR0460	FAG BEARING — MODIFIED	U20.223P		1



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PLASSER 0932 SHAFT ASSEMBLY MOTOR SIDE

PART #: LHR6194

SHEET: 3 OF 3

DWG. #: LHR6194 REV1

REV. #: 1

DRAWN BY: BAM

DATE: 12/6/2000

REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Req'd
23	LHR0460	FAG BEARING — MODIFIED	U20.223P		1
24	LHP0075	FAG BEARING	NU2313EM1C3		1
25	LHR0327	SPACER	2E22.07	0.1	1
26	LHR0338	SPACER	2E22.12		1
27	LHR0382	TIE IN PLATE	CU20.433	0.1	1
28	LHP4923	M60 SHAFT NUT	KM12		1
29	NONE	LOCKING PLATE	MB12		1
30	LHR6143	FLY WHEEL	CU20.413		1
31	HY72SX35R&L 97B210-6	HYD. MOTOR RIGHT OR LEFT			1
32	DIN6797 — IN12	INT. STAR WASHER			3

PLASSER RAIL CLAMP ASSEMBLY

PART #: LHR6223

SHEET: 1 OF 3

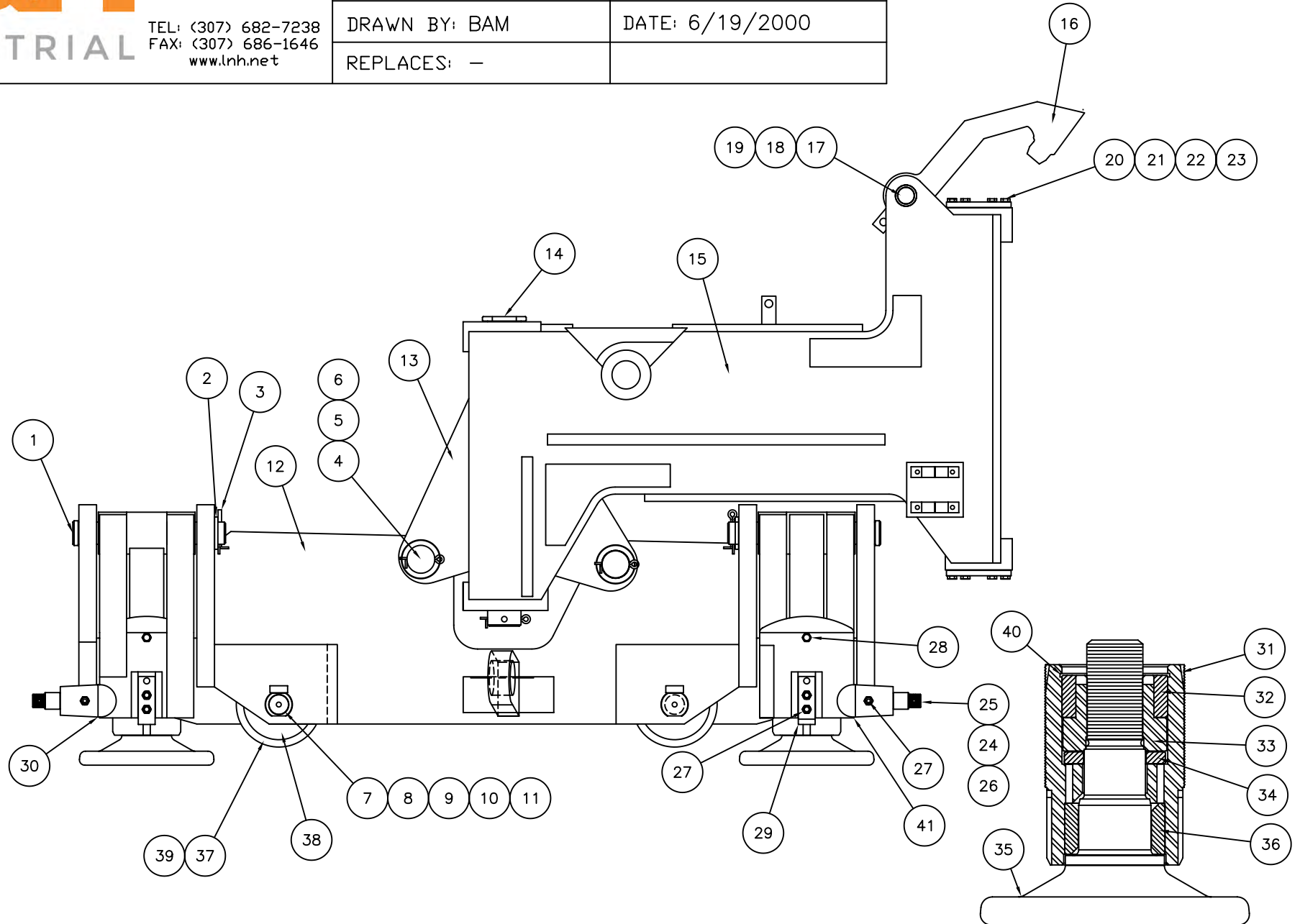
DWG. #: LHR6223

REV. #: 000

DRAWN BY: BAM

DATE: 6/19/2000

REPLACES: —



ROLLER ASSEMBLY SCALE: 2X



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PLASSER RAIL CLAMP ASSEMBLY

PART #: LHR6223

SHEET: 2 OF 3

DWG. #: LHR6223

REV. #: 000

DRAWN BY: BAM

DATE: 6/19/2000

REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Req'd
1	LHR6201	PIN			4
2	LHR6228	WASHER			4
3	F COTTER .250X 2.5	COTTER PIN			4
4	LHR6202	PIN			2
5	LHR6229	WASHER			4
6	F COTTER .375X 3	COTTER PIN			5
7	LHR6200	BOLT			2
8	LHR6224	WASHER			2
9	LHR6225	WASHER			2
10	F W LOCK .875	7/8" LOCK WASHER			2
11	F NUT HEX .875-14UNF	7/8"-14 NUT			2
12	LHR6222L/R	FRAME (LEFT AND/OR RIGHT)			1
13	LHR6209	LIFTING FRAME CONNECTOR			1
14	LHR6204	PIN			1
15	LHR6208	FRAME ARM			1
16	LHR6219	STOP/LATCH			1
17	LHP0274	BUSHING			2
18	LHR6221	STOP/LATCH PIN			1
19	F COTTER .1875X 2	COTTER PIN			1
20	LHR6217	BUSHING			2
21	LHR6218	BUSHING CAP			2



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PLASSER RAIL CLAMP ASSEMBLY

PART #: LHR6223

SHEET: 3 OF 3

DWG. #: LHR6223

REV. #: 000

DRAWN BY: BAM

DATE: 6/19/2000

REPLACES: —

Item	Part Number	Description	Replaces	Wt.	Req'd
22	NONE	M8 X 1.25MM X 30MM BOLT			12
23	F W LOCK .3125	8MM(5/16") SPLIT LOCK WASHERS			12
24	LHR6227	CYLINDER CONNECTOR			4
25	F NUT CSTL M24X1.5MM	M24 X 1.5MM CASTLE NUT			4
26	F COTTER .1563X 2	COTTER PIN			4
27	F SHCS M 10-1.5X	M10 X 1.5MM X 25 BOLT			12
28	NONE	HX. HD.1/4"—NPT PLUG			4
29	LHR6213	CLAMP			4
30	LHR6220	ROLLER CLAMP ARM (SPLIT END)			2
31	LHR6216	ROLLER CLAMP HOUSING			4
32	LHR6211	BUSHING/INSULATOR			4
33	LHR6210	ROLLER CAP			4
34	LHR6212	WASHER/INSULATOR			4
35	LHR6214	ROLLER CLAMP			4
36	LHR6203	BUSHING/INSULATOR			4
37	LHR6207	WHEEL			2
38	LHR6205	WASHER/INSULATOR			4
39	LHR6206	BUSHING/INSULATOR			2
40	LHP0273	SNAP RING			4
41	LHR6215	ROLLER CLAMP ARM (SINGLE END)			2



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