



Harsco Track Technologies

Harsco

www.harscotrack.com

SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 11-17-2003 **BULLETIN NO:** 03-025

TITLE: 330838-1 JACKING CYLINDER PISTON WEAR RING

RATING:

<input type="checkbox"/>	DIRECTIVE (Action Is Required)	<input type="checkbox"/>	ALERT (Potential Problem)
<input type="checkbox"/>	INFORMATION (Action Is Optional)	<input checked="" type="checkbox"/>	PRODUCT IMPROVEMENT (Enhance Product)

PRODUCT SERIES / MODEL: 6700S Tampers

SERIAL NO: All Models

SUMMARY: There have been several instances where there has been premature wear on the inside of the cylinder barrel requiring the barrel to be scrapped. The current cylinder design has a steel barrel and a cast iron piston with a single seal and no wear bearing. The cast iron material is the intended bearing material for the piston. The piston is designed with a second groove so it can be used in a double acting cylinder application, however only one seal is used because the jacking function requires only a single acting cylinder.

A non metallic wear ring has been developed to fit in the second groove of the piston and provide a bearing surface for the piston during operation. The piston wear ring is being installed on all future part #330838-1 Jacking Cylinder assemblies and is available to add to any existing cylinders in the field. All future cylinder service kits part #170217-1 will also include the new wear ring.

OPERATIONAL IMPACT: To improve jacking cylinder reliability and minimize wear.

ACTION: Order one Piston Wear Ring part #2007989 for each jacking cylinder that is to be updated with the new wear ring.

CONTACT: If you have any questions or if we can be of any service, please contact Bill Perry or Doug Budreau at the Ludington, MI. facility, (231) 843-3431.

SAFETY INFORMATION



- FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE ALL ENERGY SOURCES FROM MACHINE. FAILURE TO COMPLY COULD RESULT IN SEVERE BODILY INJURY.

WEAR RING INSTALLATION - See Figure 1

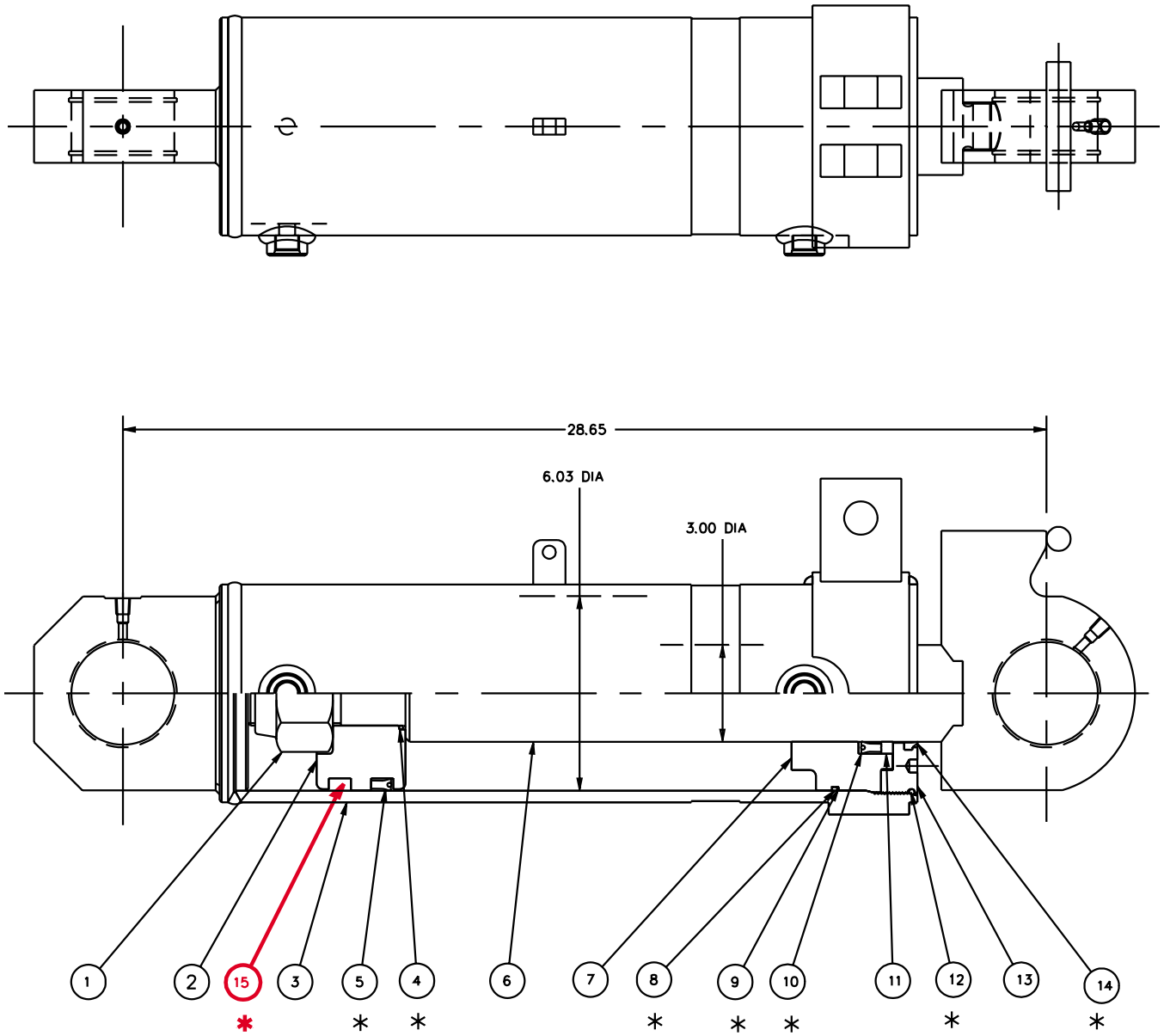
1. Disconnect the hydraulic lines from the jacking cylinder ports. BE SURE TO CATCH ALL HYDRAULIC FLUID IN A LEAK-PROOF CONTAINER.
2. Remove the jacking cylinder from the machine.
3. Thoroughly clean the jacking cylinder and then disassemble.
4. Install the wear ring (15 - illustrated in red) in the groove of the piston (2).
5. Re-assemble the jacking cylinder.
6. Re-install the jacking cylinder on the machine.
7. Reconnect the hydraulic lines to the jacking cylinder.
8. Start the engine and pressurize the jacking cylinder circuit.
9. Check the jacking cylinder and all hydraulic lines and fittings for leaks. DO NOT USE YOUR BARE HANDS WHEN CHECKING FOR HYDRAULIC LEAKS.

PARTS LIST - See Figure 1 for Item Numbers

ITEM	PART NO	DESCRIPTION	QTY
	1	170218-1 Lock Nut	1
	2	170219-1 Piston	1
	3	313876-1 Cylinder Weldment	1
*	4	150395-17 O-Ring	1
*	5	250447-1 Piston Seal	1
	6	313878-1 Piston Rod Assembly	1
	7	170222-1 Cylinder Head	1
*	8	150395-47 O-Ring	1
*	9	250448-1 Back-Up Ring	1
*	10	250449-1 Rod Seal	1
	11	170223-1 Non-Extrusion Ring	1
*	12	150012-19 O-Ring	1
	13	170224-1 Retainer	1
*	14	250450-1 Rod Wiper	1
*	15	2007989 Wear Ring	1
*		170217-1 Service Kit (Includes all items marked with an asterisk *)	1

WEAR RING INSTALLATION

FIGURE 1
JACKING CYLINDER ASSEMBLY



© 2003 HARSCO TRACK TECHNOLOGIES, HARSCO CORPORATION

415 North Main Street
Fairmont, MN
56031-1837
Tel: (507) 235-3361
Fax: (507) 235-7370

2401 Edmund Road, Box 20
Cayce-West Columbia, SC
29171-0020
Tel: (803) 822-9160
Fax: (803) 822-7471

200 South Jackson Road
Ludington, MI
49431
Tel: (231) 843-3431
Fax: (231) 843-1644

Printed In U.S.A.