



# Harsco Track Technologies

Harsco

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## SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

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**DATE:** 10-14-2002 **BULLETIN NO:** 02-025

**TITLE:** WORK-HEAD LIFT CYLINDER CUSHIONS SERVICE GROUP

**RATING:**

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

**PRODUCT SERIES / MODEL:** 6700S Tampers

**SERIAL NO:** All Models

**SUMMARY:** There are times when the work-head lift cylinders bottom out in the extended position while the machine is working. This condition exists when there are low ballast conditions and the tamping units meet little or no resistance when being inserted into the ballast. At that time the cylinder rod may be fully extended prior to the control valve closing and stopping the cylinder travel. This could cause possible damage to the cylinder rod or the cylinder mounting ears. A cushion has now been added to the bottom of the work-head guide rods that will stop the work-head at its lowest position before the cylinder rod becomes fully extended. The cushions have been installed on machines shipped later than June 2000.

**OPERATIONAL IMPACT:** To improve machine reliability and service life.

**ACTION:** Order cushions part # 2002853 as required. Eight (8) cushions are required per machine.  
The installation of this Service Group requires removing the lower work-head guide rod sockets, sliding the cushions on the lower end of the guide rods and then placing the guide rods back in position.

**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**

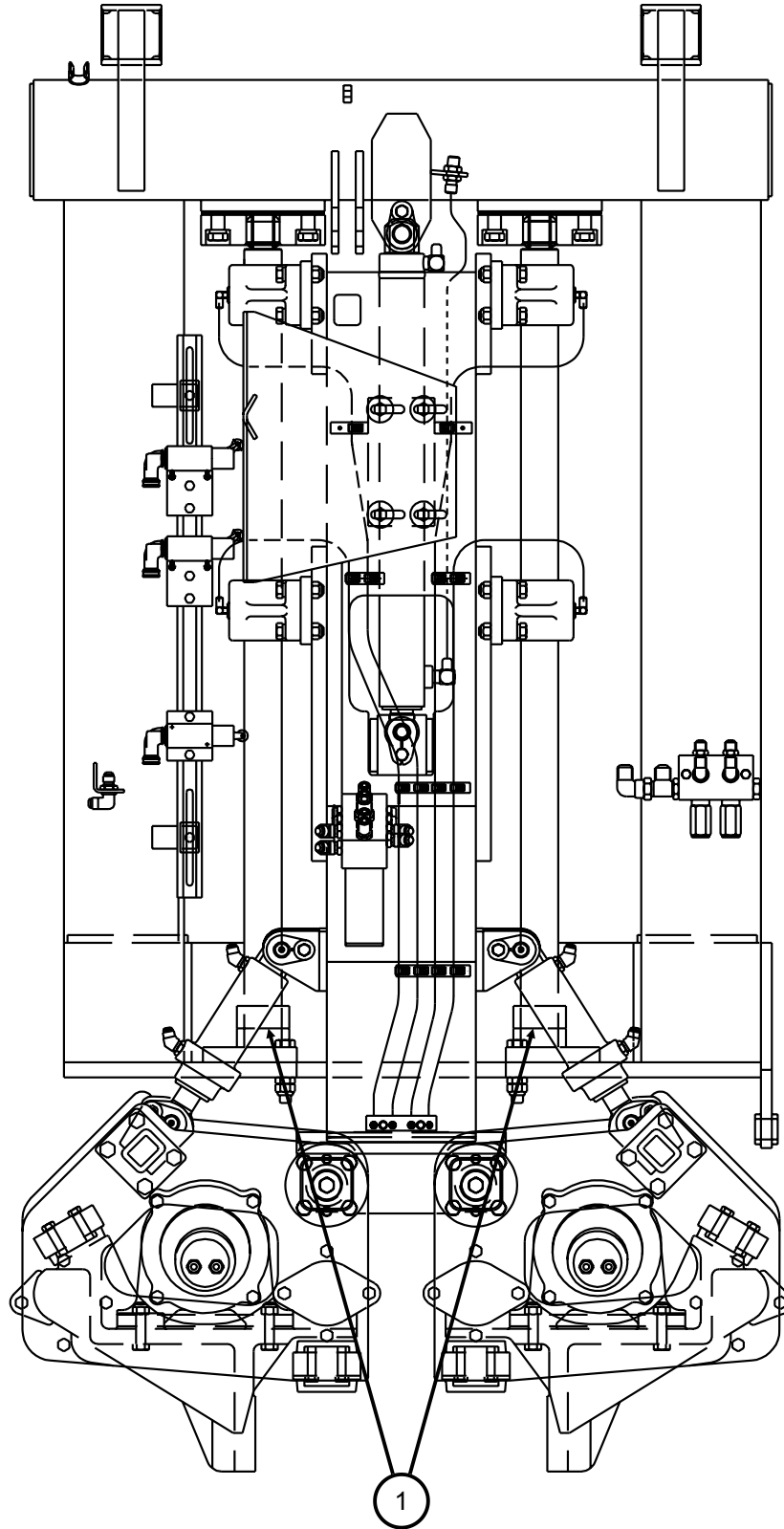
- **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE ALL ENERGY SOURCES FROM MACHINE. FAILURE TO COMPLY COULD RESULT IN SEVERE BODILY INJURY.**

**SERVICE GROUP INSTALLATION - See Figure 1**

1. Place the work-heads in the travel hooks.
2. Secure a 2-1/2 inch diameter hose clamp around each guide rod above one of the guide block bearings to assure that the guide rod does not fall during installation.
3. Remove the screws from the lower guide rod sockets.
4. Pry the lower end of the guide rod outward until the lower guide rod socket can be removed from the guide rod. This may require loosening the screws on the upper guide rod socket to allow enough movement at the lower end of the guide rod.
5. Remove the lower guide rod socket and install the cushion (1) on the lower end of the guide rod.
6. Replace the lower guide rod socket and move the guide rod back into position.
7. Install the screws in the lower guide rod, but do not tighten completely.
8. Remove the hose clamp from the guide rod.
9. When both cushions on one work-head have been installed, start the machine and lower the work-head as far as possible. Then turn off the machine power, holding the work-head in the down position.
10. Tighten the screws, nuts and locknuts in the lower guide rod sockets.
11. Turn the machine power back on and raise the work-heads back up into the travel hooks.
12. Repeat procedure to install the cushions on the other work-heads.

SERVICE GROUP INSTALLATION

FIGURE 1  
6700S WORK-HEAD



**SERVICE GROUP PARTS LIST**

ITEM	PART NO	DESCRIPTION	QTY
1	2002853	Work-Head Cushion . . . . .	8

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