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SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 8-2013

BULLETIN NO: 13-010

TITLE: Procedure for Priming and Operating Emergency Hand Pump

RATING:

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

PRODUCT SERIES / MODEL: HR1500 Series C HY-RAIL® Guide Wheel Units

SERIAL NO: N/A

SUMMARY: The optional emergency hand pump supplied with the HR1500 Series C HY-RAIL® guide wheel unit is used to raise and store the guide wheels in the event of a failure of the electric / hydraulic pump. The emergency hand pump may not always operate properly due to not being primed prior to use. Properly priming the emergency hand pump per the instructions in this service bulletin should provide reliable emergency hand pump operation.

OPERATIONAL IMPACT: Emergency hand pump operation reliability.

ACTION: Follow the instructions in this service bulletin to prime the emergency hand pump to help ensure reliable operation.

CONTACT: Harsco Rail Service Department
Columbia, SC Facility
(803) 822-7546

SAFETY INFORMATION



- **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURES TO DISABLE ENERGY SOURCES WHEN PERFORMING MAINTENANCE, MAKING ADJUSTMENTS OR REPAIRS TO THE VEHICLE OR EQUIPMENT. FAILURE TO HEED THIS WARNING COULD RESULT IN SEVERE BODILY INJURY.**

Procedure for Priming and Operating Emergency Hand Pump

1. Make sure the HR1500C1 electric / hydraulic pump and system is properly installed per the application installation drawings and instructions.
2. Make sure the optional emergency hand pump system is properly installed per the application installation drawings and instructions.
3. Fill electric / hydraulic power pack pump and emergency hand pump reservoir (hose) with ATF, OD18 or other clean hydraulic oil with a viscosity of 150 to 300 SUS at 100° F (38° C) or equivalent.
4. Operate the guide wheel unit up and down 3 times using the electric / hydraulic power pack. Leave the guide wheels in the rail position at the end of the final cycle.
5. With the guide wheels in the rail position, rotate the emergency hand pump ball valve handle to the open position.

Note: When the ball valve is opened, the hand pump is pressurized which will cause the hand pump piston to extend and rotate the pump handle socket rapidly.

When opening the ball valve, use caution and keep hands away from the handle socket end of the hand pump.

6. Insert the hand pump handle into the hand pump handle socket. Operate the hand pump handle. It should take 1 to 2 strokes to start moving the guide wheels out of the rail position. The guide wheels will roll out of the over-center position. When this happens, oil siphons into the guide wheel unit hydraulic cylinder. Because of this, the hand pump needs to be operated a few times to catch up with the oil flow.
7. If the hand pump fails to start pumping to retract the guide wheels after 10 to 15 strokes of the hand pump handle, stop pumping. Loosen the plug in the end of the emergency pump reservoir (hose). Continue operating the hand pump with the plug loose. The guide wheels should raise to the highway position. When the guide wheels are fully raised, engage the lock. Tighten the plug in the emergency hand pump reservoir (hose).
8. Close the emergency hand pump ball valve. Use the electric / hydraulic power pack pump to lower the guide wheels to the rail position. Open the emergency hand pump ball valve. Operate the emergency hand pump to raise the guide wheels to the highway position. The system will now be properly primed and should not require further priming.
9. If the emergency hand pump fails to operate properly, repeat Steps 4 through 8 until the pump operates properly.

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