



Harsco Track Technologies

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SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 11-2-2004 **BULLETIN NO:** 04-011

TITLE: ENGINE OIL DRAIN PLUG ACCESS

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: All Freightliner M2 Vehicles with Mercedes Benz Engine Equipped with HY-RAIL® Guide Wheel Equipment Series HR3000C1 or HR4000C1 Front Rail Pilot Units.

SERIAL NO: All HR3000C1 and HR4000C1 Front Rail Pilot Unit Models

SUMMARY: Access to the drain plug on the engine oil pan is limited making it difficult to remove the drain plug for service. This Service Bulletin provides instructions on how to gain access to the drain plug.

OPERATIONAL IMPACT: To provide instructions to gain access to the drain plug on the engine oil pan for service.

ACTION: Follow the instructions in this Service Bulletin to gain access to the drain plug on the engine oil pan for service.

CONTACT: If you have any questions or if we can be of any service, please contact the HY-RAIL® Service Department at the Fairmont, MN. facility, (507) 235-7212.

SAFETY INFORMATION

- n FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE ALL ENERGY SOURCES FROM VEHICLE AND RAIL GUIDE WHEEL EQUIPMENT. FAILURE TO COMPLY COULD RESULT IN SEVERE BODILY INJURY.**

IMPORTANT: Refer to the Engine Manual for all information pertaining to the engine manufacturer's recommended procedures on changing the engine oil, changing the oil filter, recommended oil specifications, etc.

REMOVING ENGINE OIL DRAIN PLUG - See Figure 1, Figure 2 and Figure 3

1. Raise and lock the front rail pilot unit in the HIGHWAY position.
2. Locate the drain plug on the left side of the engine oil pan.
3. Remove the two 1/2 inch cap screws (2) that secure the inside trunnion cap (1) of the left front rail pilot unit cylinder next to the drain plug. Then remove the trunnion cap (1) to gain access to the drain plug.
4. Be sure to place an adequately sized drain pan under the drain plug to catch all oil. Then use a 10 mm allen wrench to remove the drain plug from the engine oil pan.

REINSTALLING ENGINE OIL DRAIN PLUG - See Figure 1, Figure 2 and Figure 3

5. After all of the oil has been drained from the engine oil pan, wipe off the drain plug and the sealing surface of the engine oil pan thoroughly. Then re-install the drain plug in the engine oil pan and tighten per the engine manufacturer's recommended specifications.
6. Before re-installing the trunnion cap (1), it is recommended to coat the threads of the two 1/2 inch cap screws (2) with a corrosion resistant lubricant, such as Anti-Seize or other similar product, to facilitate the removal of the cap screws for future service.
7. Re-install the trunnion cap (1) to the rail pilot unit re-using the two 1/2 inch cap screws (2). Be sure to install the trunnion cap (1) so the grease zerk (A) which is slightly offset of center is positioned to the outside of the vehicle. Torque the two cap screws 80 ft-lbs.
8. Change the engine oil filter and refill the engine crankcase with new oil to the proper operating level per the engine manufacturer's recommended specifications

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FIGURE 1
FRONT RAIL PILOT UNIT

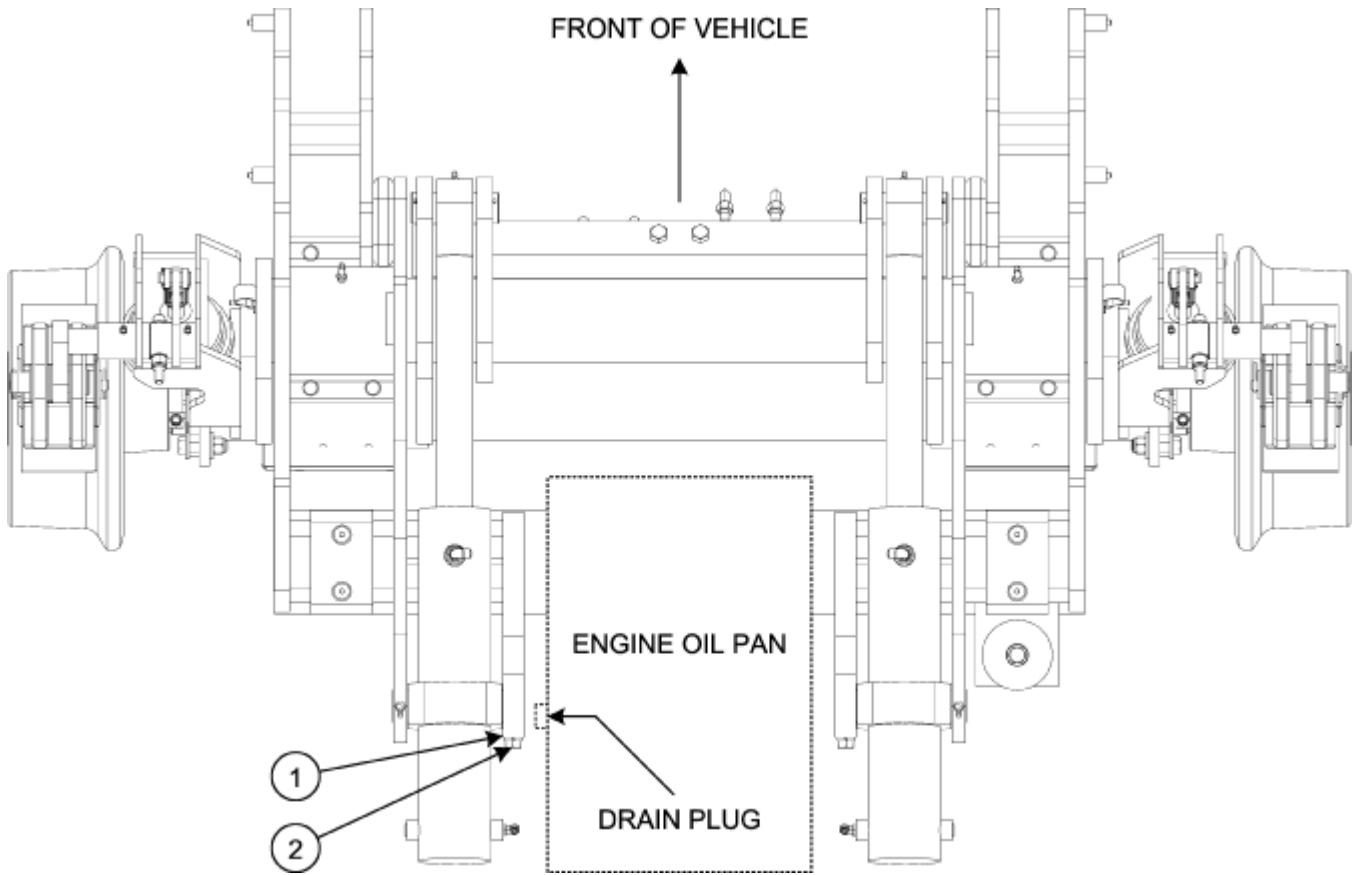


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FIGURE 2
TRUNNION CAP INSTALLED

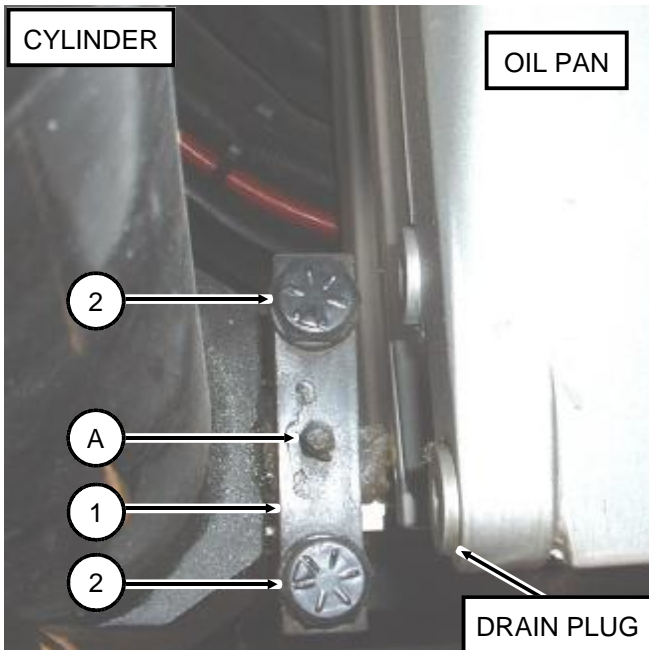
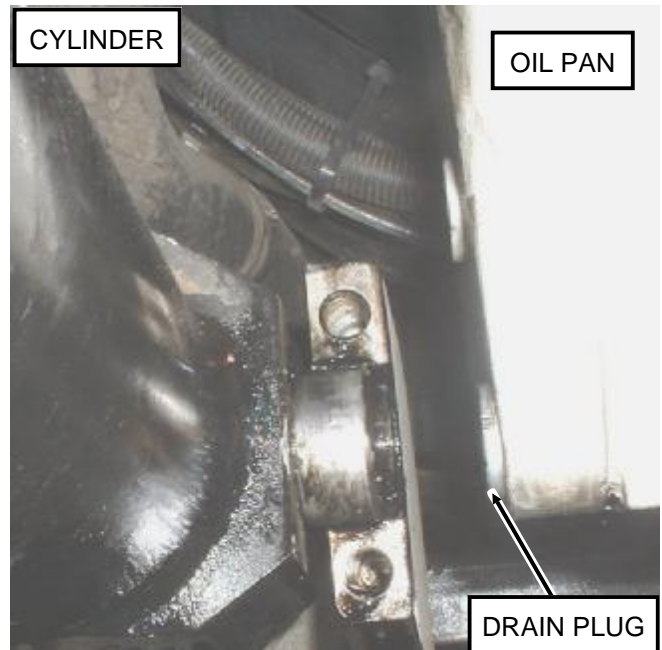


FIGURE 3

TRUNNION CAP REMOVED

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