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RAIL

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## SERVICE BULLETIN

### MAINTENANCE OF WAY EQUIPMENT

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**DATE:** 4-2-2012 **BULLETIN NO:** 12-006

**TITLE:** MARK IV HD A/C MOTOR RETURN LINE PLUMBING

**RATING:**

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

**PRODUCT SERIES / MODEL:** Mark IV HD Tampers

**SERIAL NO:** All Models with Hydraulic Drive

**SUMMARY:** The air conditioner motor hydraulic return line may have been plumbed incorrectly at the factory.

**OPERATIONAL IMPACT:** When the air conditioner motor is not operating, the charge hydraulic pressure is okay. When the air conditioner is operating, the charge hydraulic pressure goes away if the motor hydraulic return line is going directly back to the reservoir rather than to traction relief valve on the top of the reservoir.

**ACTION:** Follow the instructions in this Service Bulletin to check the plumbing of the air conditioner motor hydraulic return line. If it is not plumbed correctly, follow the instructions in this Service Bulletin to re-plumb the motor hydraulic return line to traction relief valve.

**CONTACT:** If you have any questions or if we can be of any service, please contact:

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or

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**SAFETY INFORMATION**

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

**CHECKING A/C MOTOR RETURN LINE PLUMBING** - See Figures 1, 2 and 3

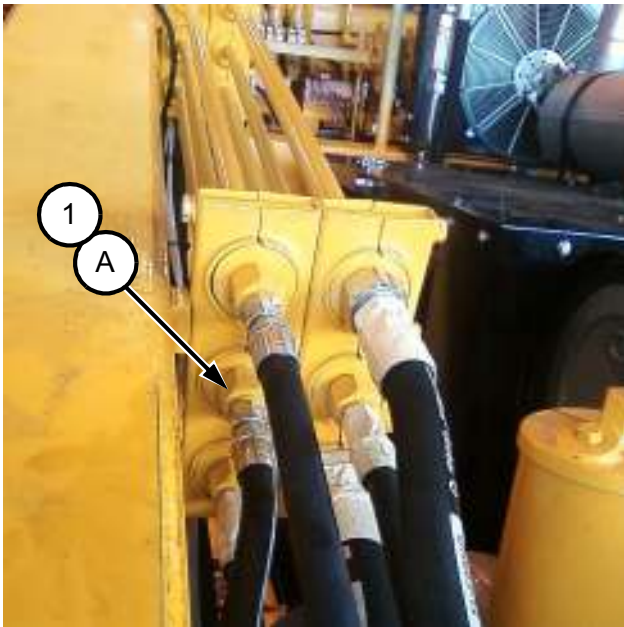
1. Locate the air conditioner motor hydraulic return line (A) on the right side of the machine as shown in Figure 1. Trace the hydraulic line (A) back to the hydraulic reservoir.
2. If the hydraulic line (A) connects to the traction relief valve (B) on the top of the hydraulic reservoir as shown in Figure 2, the motor hydraulic return line is plumbed correctly. No further action is required.
3. If the hydraulic line (A) connects directly to a 90° fitting (C) on the top of the hydraulic reservoir as shown in Figure 3, the motor hydraulic return line is plumbed incorrectly. Follow the instructions in this Service Bulletin to re-plumb the motor hydraulic return to the traction relief valve.

**RE-PLUMBING A/C MOTOR RETURN LINE** - See Figures 1, 2 and 3

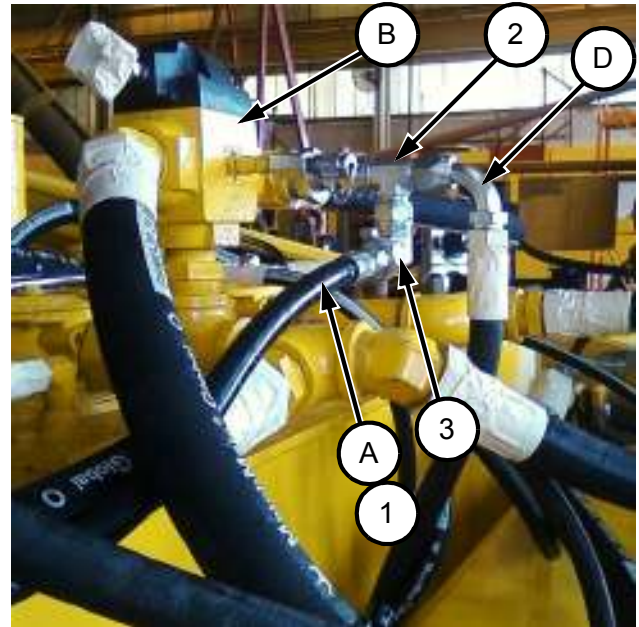
1. See the Components Required List on the following page. These components are not provided. BE SURE to catch all hydraulic fluid in a leakproof container.
2. Disconnect the existing A/C motor hydraulic return line (A) from the steel line on the right side of the machine and from the 90° fitting (C) on the top of the hydraulic reservoir. Install a cap on the 90° fitting (C).
3. Disconnect the existing 90° elbow (D) in the traction relief valve (B). Install the new swivel tee (2) between the traction relief valve (B) and the existing 90° elbow (D). If a new 90° fitting (3) will also be used, connect the fitting to the new swivel tee (2).
4. Connect the new hydraulic hose (1) to the steel line (A) on the right side of the machine and to the new swivel tee (2) or 90° fitting (3) in the traction relief valve (B). Tighten all fittings securely.
5. After installation of the new hydraulic hose and fittings, start the engine and pressurize the hydraulic system.
6. Start the air conditioner motor and check all fittings for hydraulic leaks. DO NOT use your bare hands to check for hydraulic leaks. Wear gloves and use a piece of cardboard, wood, etc.

**REPLUMBING A/C MOTOR RETURN LINE**

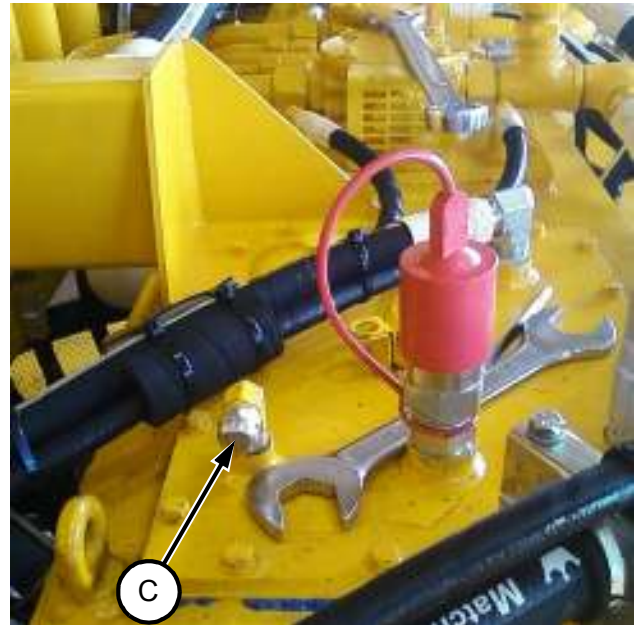
**FIGURE 1  
MOTOR RETURN LINE**



**FIGURE 2  
CORRECT PLUMBING**



**FIGURE 3  
INCORRECT PLUMBING**



- A. A/C Motor Return Line
- B. Traction Relief Valve
- C. Swivel 90° Fitting - Reservoir
- D. Swivel 90° Fitting - Relief Valve

**COMPONENTS REQUIRED LIST**  
(Not Supplied)

- 1. Hose - 69" Long with Fittings
- 2. Swivel Run Tee
- 3. Swivel 90° Fitting - Optional

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