

PARTS & SERVICE NEWS

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SUBJECT: STEERING AND BRAKE SUPPLY PUMP DRIVE COUPLING FAILURE (VK1257)

PURPOSE: Inform Field Of New Drive Coupling PC0823

APPLICATION: 530M Rear Dump Truck

FAILURE CODE: J14038

DESCRIPTION:

The steering and brake supply pump (3, Figure 1) on the 530M is mounted in tandem with the transmission oil pump (2) and is driven through an internally splined coupling (VK1257). This coupling engages the ends of the two pumps main shafts. Several failures of the coupling (VK1257) have occurred causing loss of steering and brake supply pressure. Additionally, when the coupling fails, the steering system may experience a backward flow of oil through the system that can cause damage to the high pressure steering filter (AK3572) and contaminate the tank and other parts of the hydraulic system.

To prevent this problem, a new coupling has been designed to prevent breakage with normal use. However, a major failure or seizure of the steering and brake pump may still break the coupling and/or the transmission oil pump shaft end.

Customers who have experienced failures with the existing coupling (VK1257) should replace it with the new coupling (PC0823) for improved reliability. **NOTE: COUPLING (VK1257) IS USED IN OTHER APPLICATIONS AND WILL BE MAINTAINED AS A USABLE PART NUMBER.**

When the steering and brake pump is removed for repair, it is recommended that the coupling be replaced with new drive coupling (PC0823). Anytime the pumps are separated, always check for wear or damage to the pump and coupler splines and replace parts as necessary. If the pump has failed due to a seizure, the coupling must be replaced. Pump removal and installation instructions are described in the 530M shop manual, Section L, Hydraulics.

NOTE: INSURE THAT THE SNAP RING (2, FIGURE 2) INSIDE THE COUPLING IS COMPLETELY SEATED INTO THE GROOVE. INCORRECT INSTALLATION WITHOUT THE SNAP RING WILL PREVENT PROPER ENGAGEMENT OF THE COUPLING ON THE PUMP SHAFTS.

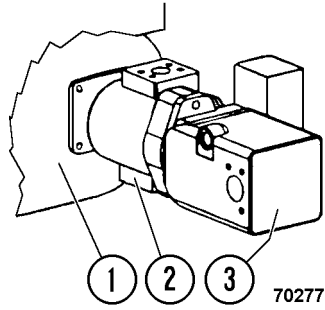


Figure 1. Hydraulic Pump Mounting

- 1. Torque Converter Housing
- 2. Transmission Pump
- 3. Steering /Brake Pump

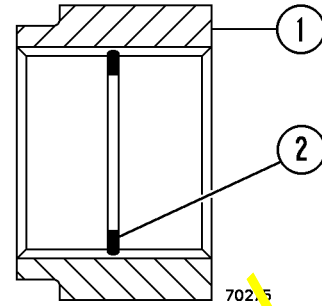


Figure 2. Spined Coupling

- 1. Spined Coupling
- 2. Snap Ring

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