

# Rocker Shaft Oil Transfer Tube Installation

M-214-002

(May 2008)

## Valid for

All CXU,CHU,GU,MRU,LEU built with an MP7

## Case description

On MACK MP7 engines, it is possible to install the rocker shaft oil transfer tube between the engine brake control valve or intermediate section (non-brake engines) and the rocker shaft incorrectly when reinstalling the oil transfer tube. Failure to follow the proper installation procedure may result in an engine failure. If an incorrectly installed oil transfer tube is found to be the cause of engine failure during failure analysis, the warranty claim may be denied. Procedures for properly installing the oil tube are as follows:

*Note: Not applicable to Mack Trucks Australia*

*Note: The procedure below refers to the oil tube installation for an engine brake-equipped engine. The same procedures are used for non-brake engines.*

## Procedure

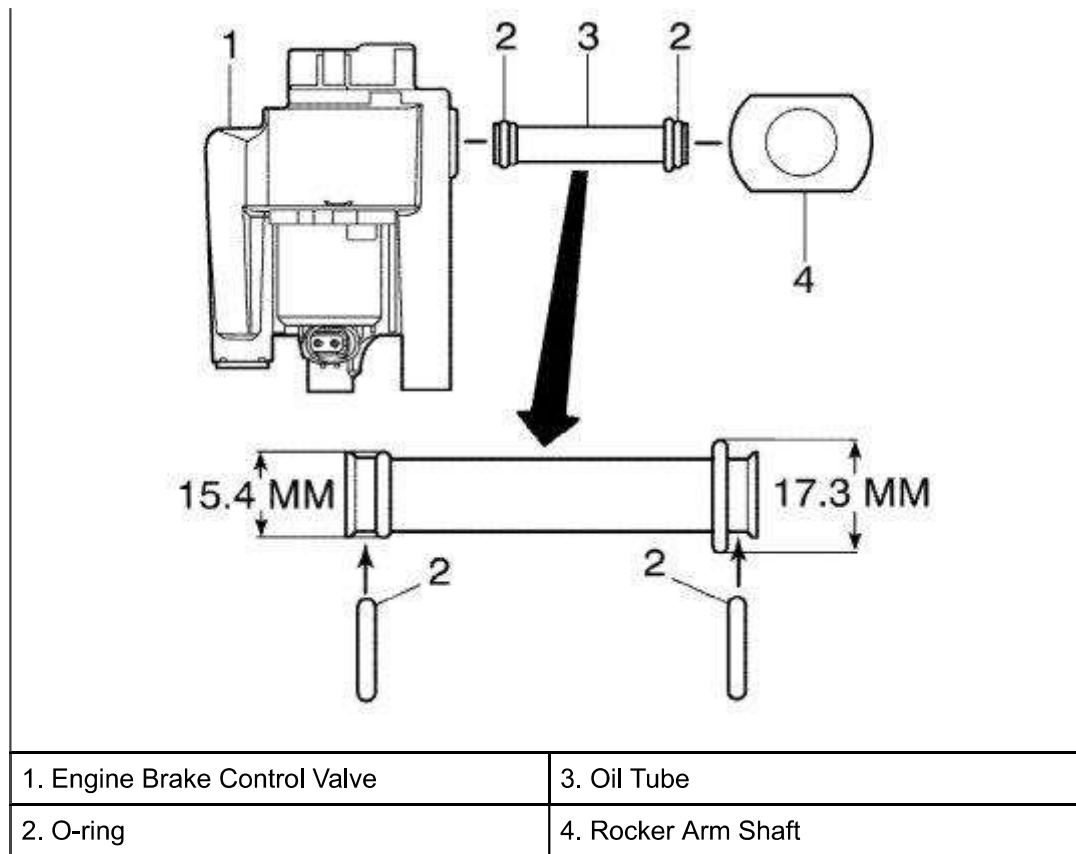
1. Replace the O-ring at the bottom of the control valve.
2. Clean the control valve oil tube and replace the O-rings. Lubricate the tube hole in the rocker arm shaft and the O-rings on the tube.
3. The oil tube has a flange and a bead on each end. While the flanges are the same size, the beads differ. One bead is 15.4 mm, and the other is 17.3 mm. Insert the small diameter (15.4 mm) beaded end of the oil tube into the oil hole of the control valve. Position the large diameter (17.3 mm) beaded end of the oil tube towards the rocker shaft.



### Caution

If the oil tube is installed incorrectly with the large end in the control valve and the small end in the rocker arm shaft, oil leaks will occur. This may cause oil starvation in the rocker arms resulting in possible engine failure.

### Oil Control Valve Oil Tube



4. Seat the large end of the oil tube in the rocker arm shaft by pressing on the control valve with the heel of your hand. This allows the control valve mounting bolts to be installed. Torque-tighten the bolts to the proper specification.

## Issued by

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