



No.: 17 TS-11
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TO: Service Locations

FROM: Service Systems Development

SUBJECT: **Detroit™ DT12™ Transmission Proper Moving Procedure**

Note: This document supersedes 15 TS-15.

ISSUE

Never tow or push a DT12™ equipped truck with the rear wheels on the ground and the driveline or axle shafts installed. Failure to remove the driveline or axle shafts when towing or pushing the vehicle with the rear wheels on the ground **WILL** result in damage to the transmission and other parts. This is stated in the Daimler Trucks North America (DTNA) Drivers Manual found in the glovebox, and applies to all transmissions in DTNA vehicles. It is also a recommended towing industry and truck maintenance industry practice to remove the driveline or axle shafts.

When towing from the front or pushing a DT12™ equipped truck, with the rear wheels on the ground, driveshaft removal is preferred. If driveshaft removal is not possible, **ALL DRIVE** axle shafts **MUST** be removed. There must not be any physical connection between the drive axle(s) and the transmission.

Towing a DT12™ equipped truck from the rear with only the front steer wheels on the ground is acceptable.

The DT12™ oil pump does not rotate when the vehicle is towed or pushed incorrectly. Therefore, internal transmission components will not receive adequate lubrication. The mainshaft will turn, as will the mainshaft pilot bearing. The mainshaft pilot bearing fits into a matching race in the input shaft, which will not turn. Given the large loads on the mainshaft pilot bearing, the lack of lubrication from improper towing or pushing can lead to failure of the mainshaft pilot bearing. See Figure 1 for the location of the mainshaft pilot bearing. A supplemental video showing the mainshaft pilot bearing can be found on ddcsn.com > Support > Multimedia > DT12 Transmission > DT12 Mainshaft Pilot Bearing.

Damage to the DT12™ transmission from improper towing or pushing is not covered under Detroit™ warranty. It is up to the repair facility to determine whether a vehicle has been towed or pushed improperly. Improper towing or pushing may result in metal debris in the transmission oil. Refer to the symptom based diagnostics chapter "Transmission Fluid Inspection" in the *Detroit Transmission Manual* (DDC-SVC-MAN-0140). The beginning of the "Metal in Oil" sub-chapter also contains some information to help determine if the vehicle was towed or pushed improperly, and can be used whether excessive metal was found in the oil or not. Transmissions replaced under warranty that have been determined to have failed due to an improper tow or push will have that claim debited back to the repairing dealer.

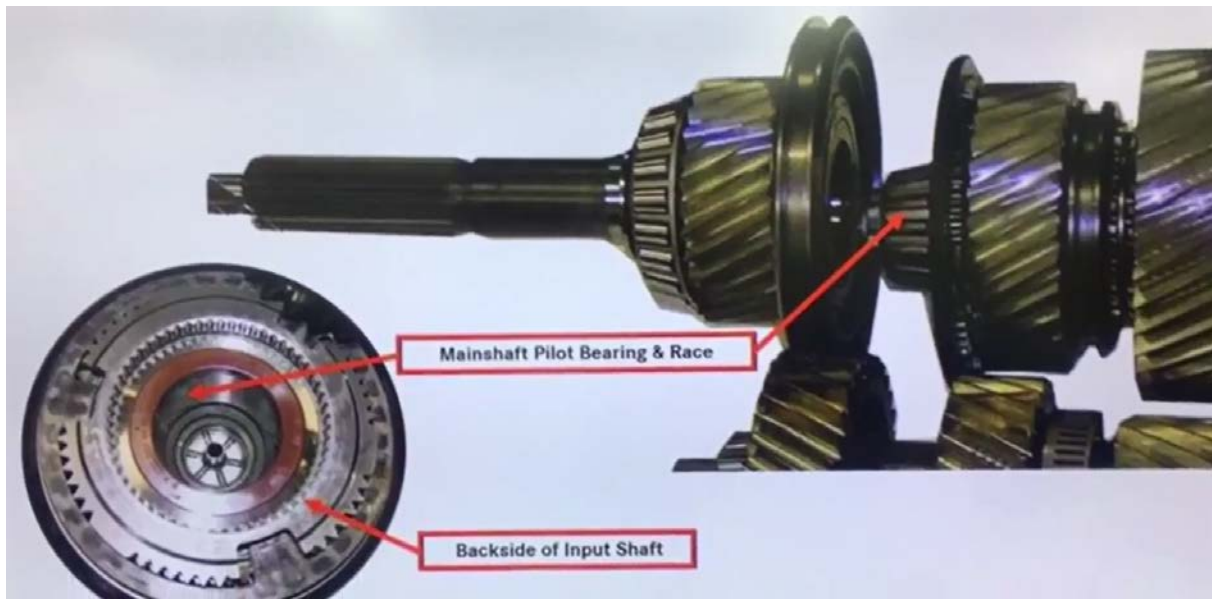


Figure 1 – Mainshaft Pilot Bearing Location

CONTACT INFORMATION

Please contact the Detroit™ Customer Support Center at 855-253-0428 or email csc@daimler.com if you have any questions.