



Service Bulletin

Bulletin No. 2010-71
CMD 2010-11

Circulate to: Sales Manager Accounting Service Manager Technician Parts Manager

Steering Actuator Inner Oil Seals

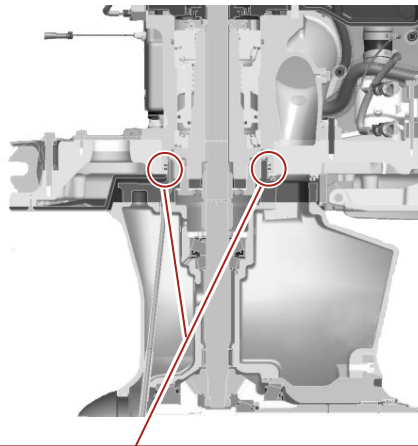
Models Affected

Models Covered	Serial Number Range
Zeus Drives	All

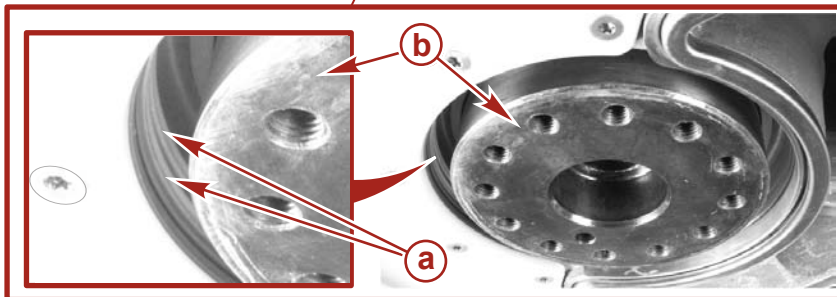
NOTE: Zeus drives with serial number 0M963694 and above are equipped with the new steering actuator inner seals described in this bulletin.

Situation

Zeus drives use two seals between the king pin adapter plate and the steering actuator housing. These steering actuator inner oil seals keep gear lube in the drive and water out of the drive at the swivel joint of the king pin adapter and the steering actuator.



- a - Inner oil seals
- b - Steering actuator



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Cummins MerCruiser Diesel now offers replacement seals for the steering actuator housing. The inner oil seals are now available separately and are serviceable if a leak is detected between the kingpin adapter plate and the steering actuator housing.

A leak at this joint will cause the lube level to rise continually in the gear lube monitor. The lube will have a milky appearance because of water mixing with the gear lube. In some cases, the gear lube may be pushed out of the cap on the gear lube monitor.

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Correction

If the gear lube does **not** appear milky, the lube level may be rising in the gear lube monitor from normal heat expansion and lube is being pushed out of the bottle through a faulty cap seal.

If the lube level is rising and the gear lube appears milky, use the following procedure for determining whether the steering actuator inner seals are leaking.

Pressure-test the drive assembly following the procedure in the appropriate CMD service manual (#45 or #52).

1. If the drive holds pressure and yet the lube is milky and the level is rising, the steering actuator inner seals should be replaced. Inner oil seals may hold pressure when tested, then leak during vessel operation. Leaking seals must be replaced. Service literature has been updated and provides the procedures necessary to replace the seals.
2. If the drive assembly does not hold pressure, remove the gear housing and pressure-test the gear housing. This test will determine whether the problem is with the gear housing or with the steering actuator seals. If the leak is with the gear housing, repair according to the service manual. The steering actuator seals are not the source of the problem.

Part Number

Description	Quantity per Zeus Pod	Part Number
Steering actuator inner seal	2	8M0045622

Warranty

If seal replacement is necessary: Cummins MerCruiser Diesel will credit the dealer for the cost of parts, labor, and reasonable travel during the normal engine warranty period. Submit a warranty claim through your normal warranty processing channel, listing:

- MerCruiser serial number
- Part code: 572
- Failure code: 26
- Labor code and flat rate:

Labor Code	Labor Description	Flat Rate
SB10	Pod Drive Pressure Test	1 hr
SB10	Gear Housing Pressure Test	1 hr
MP27	Replacing Inner Oil Seals (removal of gear housing is included in MP27)	3 hrs

Disposition of old parts:

- **United States and Canada:** Scrap
- **Outside the United States and Canada:** Follow instructions issued by your Marine Power International office or by your distributor.

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