

Field Service Bulletin Trucks



Date	Group	No.	Release	Page
8.2015	217	004	01	1(8)

Oil Pan Sealing Ring, Replacement
MP8
CHU, CXU, GU, MRU

FSB 217-004, Oil Pan Sealing Ring, Replacement

(August 2015)

Some MACK vehicles equipped with MP8 engines built since January 2010 report oil leaking at the drain plug insert in the 13L plastic oil pan (part number 21368390) due to O-ring material degradation. If oil pan is showing evidence of leakage, replace all O-rings and sealing rings.

Required Parts

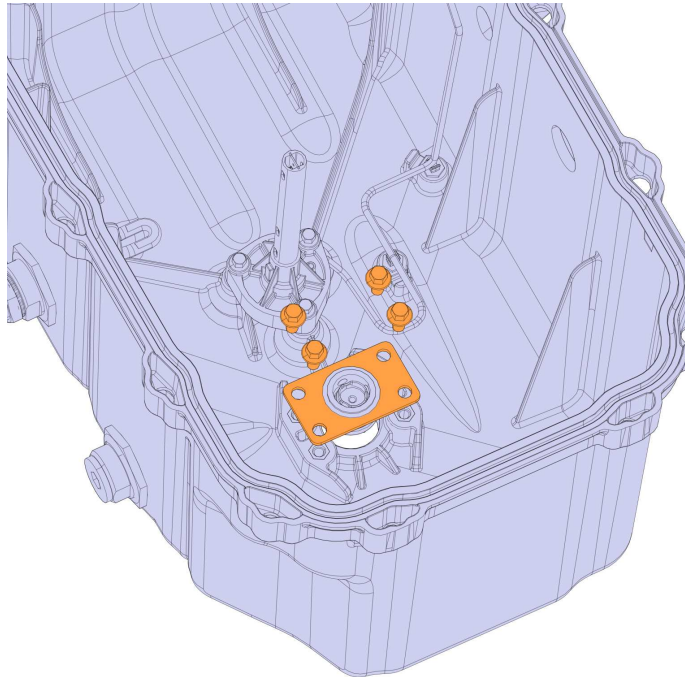
Old Part Number	New Part Number	Description	Quantity
21780376	—	Oil Fill Tube O-Ring	1
949656	—	Dipstick Support Tube O-Ring	1
20579690	—	Bottom Plug Retainer Sealing Ring	1
20586647	22645240	Oil Pan Heater and Side Retainer Sealing Ring	2
20586720	22592094	Drain Plug O-Ring	1

Procedure

You must read and understand the precautions and guidelines in Service Information, Function Group 20, "Engine Safety Practices" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

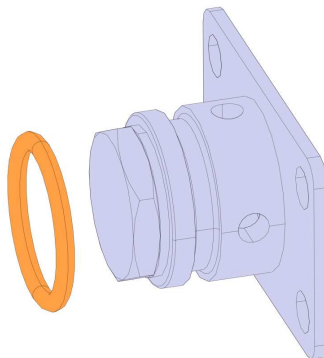
NOTE: Information is subject to change without notice. Illustrations are used for reference only and can differ slightly from the actual vehicle being serviced. However, key components addressed in this information are represented as accurately as possible.

- 1 Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheels, and placing the transmission in neutral or park.
- 2 Disconnect all battery cables from the negative (ground) battery terminals to prevent personal injury from electrical shock and prevent damage to electrical components.
- 3 Remove the oil pan. Refer to Function Group 21.
- 4 Remove the bottom plug retainer.



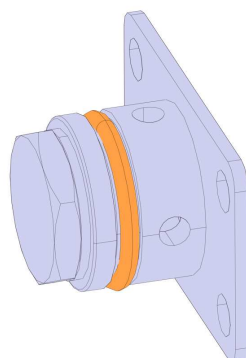
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- 5 Remove the sealing ring from the bottom plug retainer and clean the retainer. Inspect the retainer for damage.



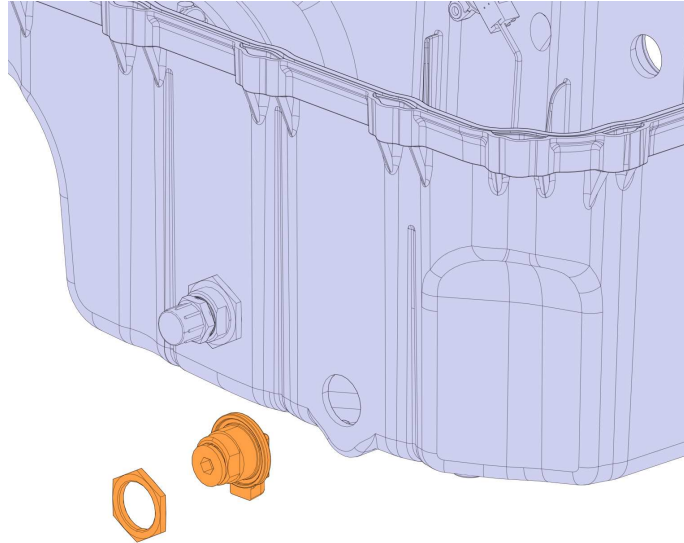
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- 6 Install a new sealing ring on the bottom plug retainer.



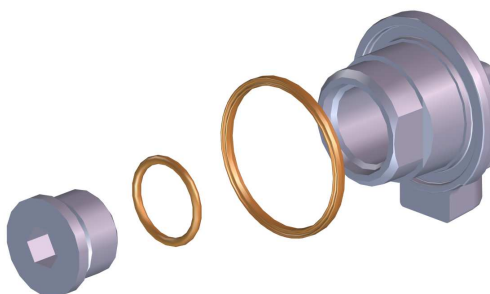
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- 7 Inspect the bottom plug retainer sealing area of the oil pan for damage.
- 8 Install the bottom plug retainer. Apply thread locking compound to the fasteners. Tighten the fasteners to 20 ± 2 Nm (15 ± 2 lb-ft). Do not overtighten the fasteners.
- 9 Tighten the oil drain plug to 60 ± 10 Nm (44 ± 4 lb-ft).
- 10 Remove the side retainer. Discard the sealing rings. Inspect the side retainer for damage.



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11 Install new sealing rings on the side retainer.

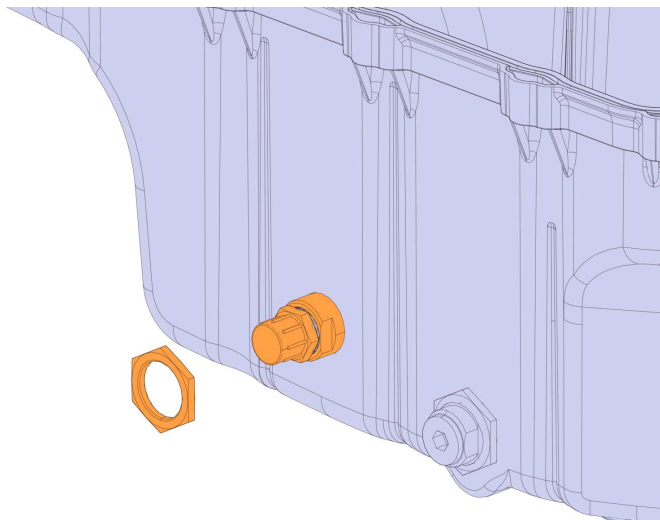


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12 Inspect the side retainer sealing area of the oil pan for damage.

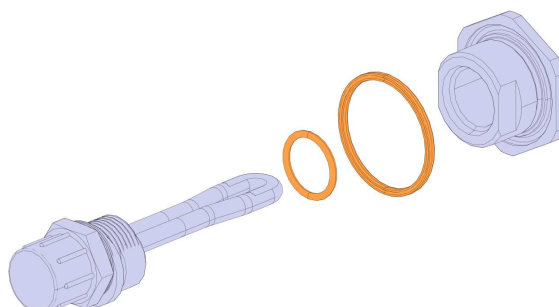
13 Install the side retainer. Tighten the nut to 80 ± 5 Nm (59 ± 4 lb-ft). Tighten the plug to 40 ± 5 Nm (30 ± 4 lb-ft).

- 14 Remove the oil pan heater. Discard the sealing rings. Inspect the oil pan heater for damage.



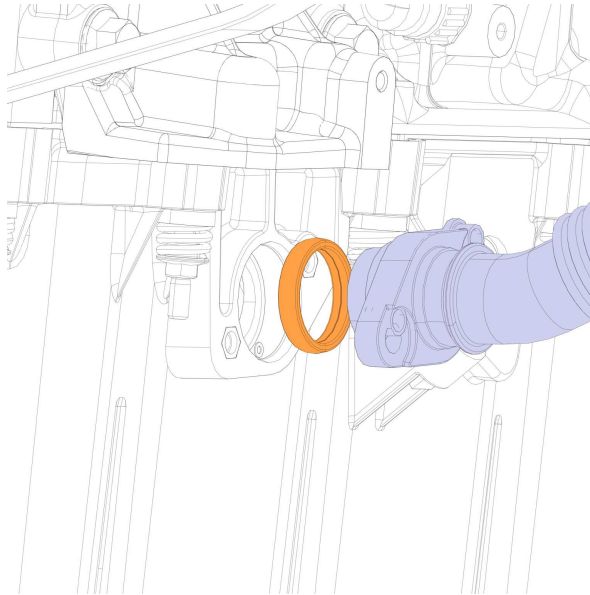
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- 15 Install the replacement sealing rings on the oil pan heater.



W2102941

- 16 Inspect the oil pan heater sealing area of the oil pan for damage.
- 17 Install the oil pan heater. Tighten the fastener to 80 ± 5 Nm (59 ± 4 lb-ft). Tighten the heater element to 47 Nm (35 lb-ft).
- 18 When installing the oil pan, install a new O-ring on the oil fill tube and dipstick support tube.



W2102942

Oil Fill Tube



W2102943

Dipstick Support Tube

- 19 Install the oil pan. Refer to Function Group 21.
20 Refill the engine oil to the proper level.
21 Reconnect all previously removed cables to the negative (ground) battery terminals.
22 Start engine, check for leaks and proper operation.

Reimbursement

This repair may be eligible for reimbursement if a product failure was experienced within time and mileage limits of the applicable Warranty coverage. Reimbursement is obtained via the normal claim handling process.	UCHP Reimbursement	eWarranty Reimbursement
Claim Type (used only when uploading from the Dealer Bus. Sys.)	01	01
Labor Code		
Oil Pan, Replacement	2171-03-02-01 — 1.6 hrs	2192F-37-80 — 1.6 hrs
Oil Pan, Pass-Through Seals, Replace	2172-03-09-01 — 0.4 hrs	2192G-37-80 — 0.4 hrs
Causal Part	20586720	20586720

MACK Trucks North America reserves the right to make any changes in design or to make additions to or upon its products without incurring any obligations to install the same on vehicles previously built.