FSB 284-048, Oil Pressure Sensor Jumper Harness

(February 2014)

Some MACK vehicles with MP engines built between January 2004 and January 2013 may experience a main oil gallery pressure sensor or piston cooling jet pressure sensor failure that leads to oil contamination into the engine wire harness. A new anti-wicking jumper harness, part number 22205127, is available. This jumper harness will stop oil from wicking back down and possibly causing damage to the new sensor or cause later improper diagnostics. Oil pressure sensor part number 21302639 is replaced with a new oil pressure sensor part number 21634021. Follow the procedure below if wicking is observed. Part numbers are stamped on the side of the sensors.

Note: It is not necessary to replace the entire engine harness for oil contamination.

If a sensor is being replaced for electrical faults and oil has **NOT** wicked into the harness, **REPLACE THE SENSOR ONLY**.

If a sensor has failed **AND** is wicking oil into the engine harness, **REPLACE THE SENSOR AND INSTALL THE JUMPER HARNESS AS INSTRUCTED IN THIS BULLETIN**.

If the engine harness is being replaced for other reasons and the sensor is part number 21302639 or older, **REPLACE THE SENSOR ONLY**. The new harness will **NOT** require the jumper harness.

Note: Both sensors should be part number 21634021.

Required Parts

Jumper harness part number 22205127.

You must read and understand the precautions and guidelines in Service Information, Function Group 30, "General Safety Practices, Electrical and Electronics" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

Repair

1 Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheel, and placing the transmission in neutral.

2 Disconnect all cables from the negative (ground) battery terminals to prevent personal injury from electrical shock and prevent damage to electrical components.

3 Raise hood or raise cab.

4 For cabover models, remove the charge air cooler (CAC) pipe from the engine turbocharger outlet and CAC inlet. Remove the CAC temperature sensor from the pipe and set the pipe aside.

5 Clip applicable cable ties and remove P-clamps securing the oil pressure sensor harness. Disconnect the oil pressure sensor harness from the sensor.

6 Reverse the back shells on the jumper harness connectors before installing the jumper harness. Connect the 90 degree end of the jumper harness to the oil pressure sensor and the straight end to the harness. Install cable ties and P-clamps as necessary.

7 If oil has wicked to the engine control module connectors, clean the connectors thoroughly with electronic cleaner and dry with compressed air.

8 If removed, install the CAC pipe. Tighten the V-band clamps to 7 ±1 Nm (62 ±9 in-lb). Install the CAC temperature sensor.

9 Install all the previously removed cables to the negative (ground) battery terminals.

10 Start the engine and check for proper operation.

11 Close hood or lower cab.

12 Use Tech Tool to clear any diagnostic trouble codes (DTC).

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.	
Claim Type (used only when uploading from the Dealer Bus. Sys.)	01
Labor Code	
Primary Labor Code	2732F-01-80 — 0.3 hrs
Causal Part	21302639