



**** SOLUTION ****

Title Updated PM Sensor Removal Procedure - [US17+OBD16 and Newer Emissions](#)

Mack Models

Mack Model LR , TE - TerraPro , AN - Anthem , GR - Granite , PI - Pinnacle

Volvo Models

Volvo Model VNL , VNR , VNX , VAH , VHD

Emission Standard

Emission Standard US17+OBD16 , US17+OBD18 , US17+OBD19

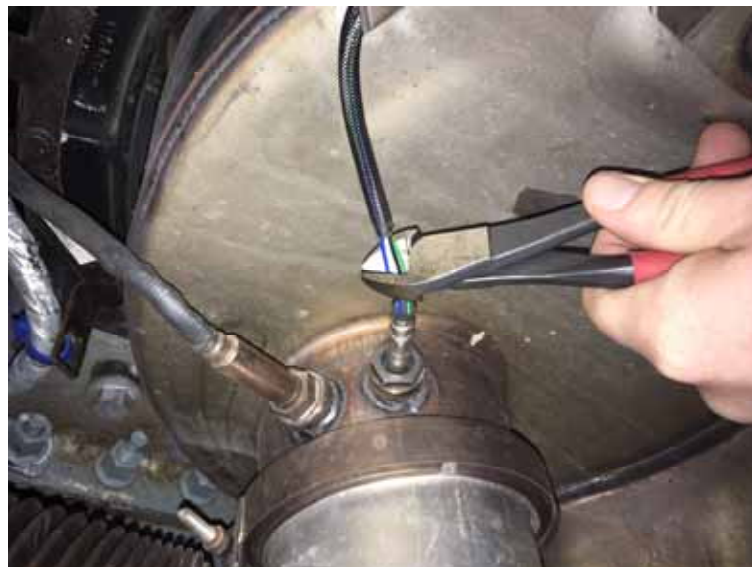
**** SOLUTION ****

Cause When removing a PM sensor for replacement, the threads may be damaged during extraction of the failed sensor.

A procedure has been developed to prevent damage to the threads on the exhaust pipe, necessitating replacement of the complete SCR assembly.

Solution **Once the PM Sensor is determined to be replaced, follow the steps below to remove the failed sensor.**

1. Cut the harness at the top of the sensor.





2. Spray the sensor nut with a suitable rust penetrant and let soak for approximately 5 minutes.



3. Remove the sensor with a 1/2" drive impact and appropriately sized deep socket.



4. Use an M18 x 1.5mm **bottoming** tap to chase the SCR boss threads.

- Example bottoming tap – Grainger part # 2LWT5



5. Inspect the boss threads and PM Sensor alignment notch for debris and clean if necessary.





6. Install the new PM sensor and torque to spec. Refer to [Impact](#) for the correct torque spec.

| | |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Solution visibility | Dealer distribution |
| Function(s)/component(s) affected | |
| Function affected | SCR , DPF |
| Function Group | |
| Function Group | 254 catalytic converter; exhaust emission control equipment , 258 emissions after-treatment , 2846 Sensor |
| Customer effect | |
| Main customer effect | soot |
| Administration | |
| Author | A241298 |
| Dealer ID | A241298 |
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