Nitrogen Oxides (NOx) Sensor 11

Materials

Name	Specification
MotorcraftÂ® Penetrating and Lock Lubricant XL-1	-
Bostik Never-Seez Regular Grade (nickel free) Anti-Seize and Lubricating Compound	-

Removal

NOTICE: Do not use silicone based sprays or lubricants on any components installed onto or around the diesel exhaust system or intake air distribution and filtering system. Silicone reacts with the Nitrogen Oxides (NOx) sensors and may cause permanent damage to the NOx sensors.

NOTE: *Some vehicles built on or before 11/01/2016, the nitrogen oxides (NOx) module 11 is installed using adhesive tape and a locator pin during vehicle assembly. If removal of any of these components is required for service, the adhesive tape is not required for reinstallation. To reinstall, utilize pin fastener W717460-S300 to secure the module. Two pins are required for the NOx module 11.*

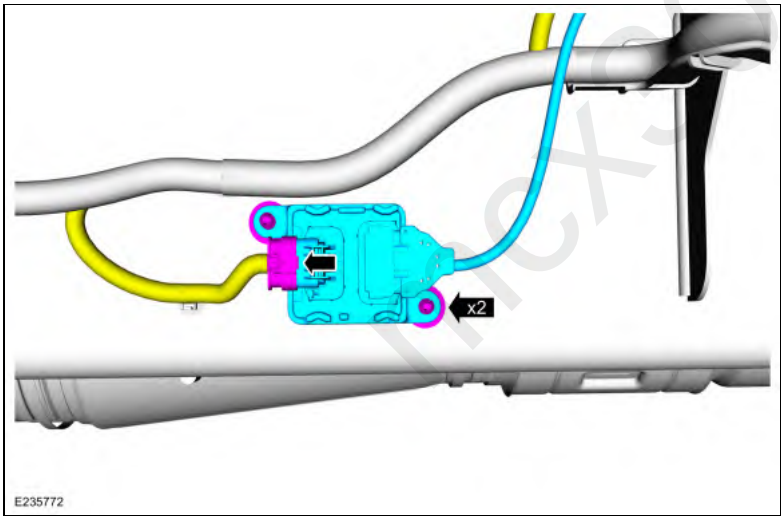
NOTE: *Removal steps in this procedure may contain installation details.*

NOTE: *Nitrogen Oxides (NOx) sensors 11 wiring harness routing and position of retainers varies by wheelbase, frame width and length. Typical shown others similar.*

NOTE: *Do not apply any type of electrical grease or lubricants to the electrical connector.*

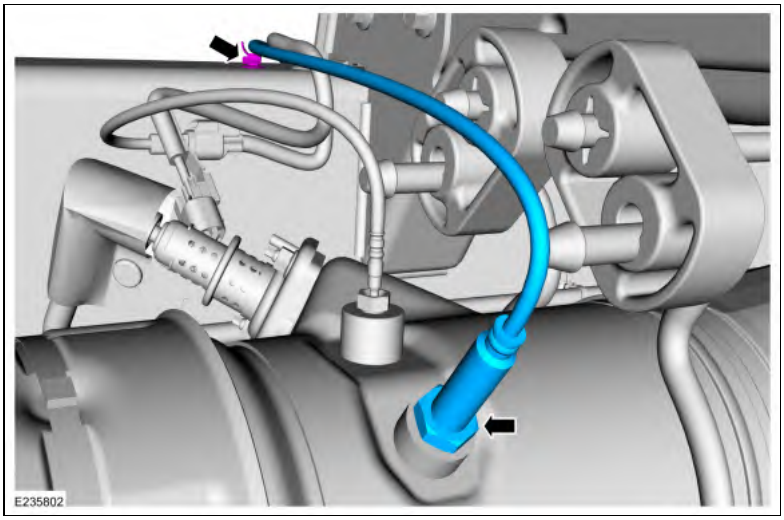
1. With the vehicle in NEUTRAL, position it on a hoist.
   Refer to: Jacking and Lifting - Overview (100-02 Jacking and Lifting, Description and Operation).

2.
   The NOX sensor 11 and module are serviced as an assembly.
   - Disconnect the NOX sensor module 11 electrical connector and disconnect additional wiring retainers from the frame.
   - Depress the retainer clips to release the module from the frame.



3. **NOTE:** *If necessary, lubricate the NOx sensor with penetrating and lock lubricant to ease removal.*

   Disconnect the harness retainer and remove the NOX sensor 11 and module.
   Material: MotorcraftÂ® Penetrating and Lock Lubricant / XL-1
   Torque: 35 lb.ft (48 Nm)



Installation

1. **NOTE:** *Check for the presence of anti-seize on the first 3 threads of the sensor. If there is no anti-seize present or is partially missing, apply anti-seize to the first 3 threads of the NOx sensor prior to installation.*

   To install, reverse the removal procedure.
   Material: Bostik Never-Seez Regular Grade (nickel free) Anti-Seize and Lubricating Compound

2. **NOTE:** *This step is required only when a new NOx sensor is being installed. After the new NOx sensor is installed, using a diagnostic scan tool, perform the following:*

   - Reset/clear the specified function for the nitrogen oxide.
   - Clear the continuous PCM DTCs and reset the emissions monitors information in the PCM. Refer to Section 2 of the Powertrain Control/Emissions Diagnosis (PC/ED) manual.

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