

Heated Oxygen Sensor (HO2S)

Material	
Item	Specification
High Temperature Nickel Anti-Seize Lubricant XL-2	—
Penetrating and Lock Lubricant (US); Penetrating Fluid (Canada) XL-1 (US); CXC-51-A (Canada)	—

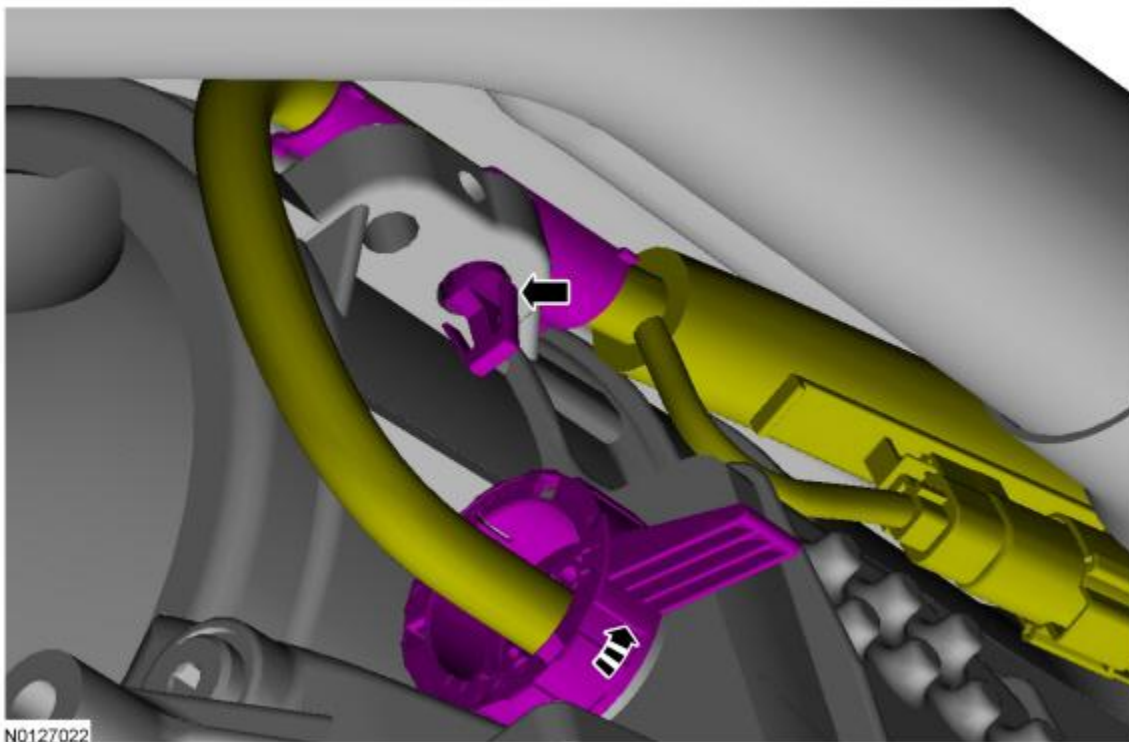
Removal and Installation

All sensors

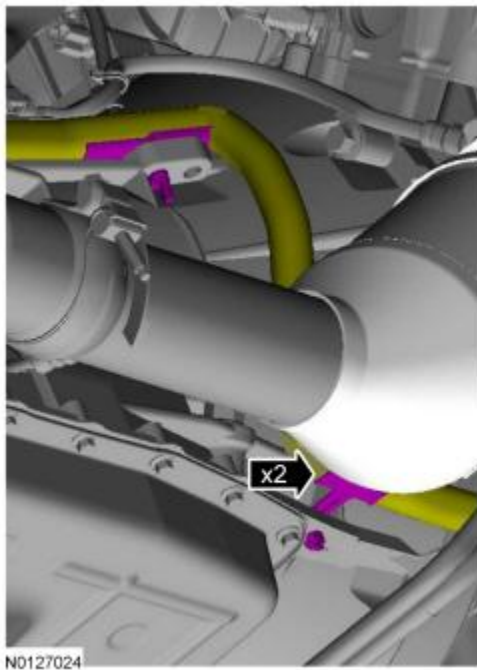
1. With the vehicle in NEUTRAL, position it on a hoist. Refer to [Section 100-02](#).

RH HO2S on 5.0L engine with automatic transmission

2. Disconnect the transmission vehicle harness connector by twisting the outer shell and pulling back on the connector.
 - Detach the wiring harness retainer.

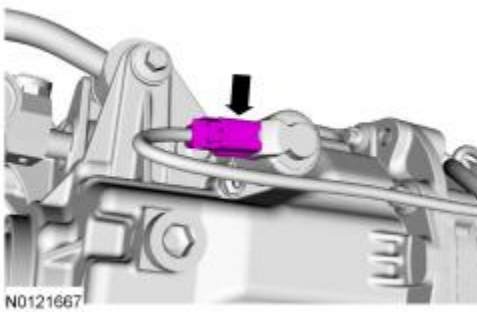


3. Detach the 2 wiring harness retainers.

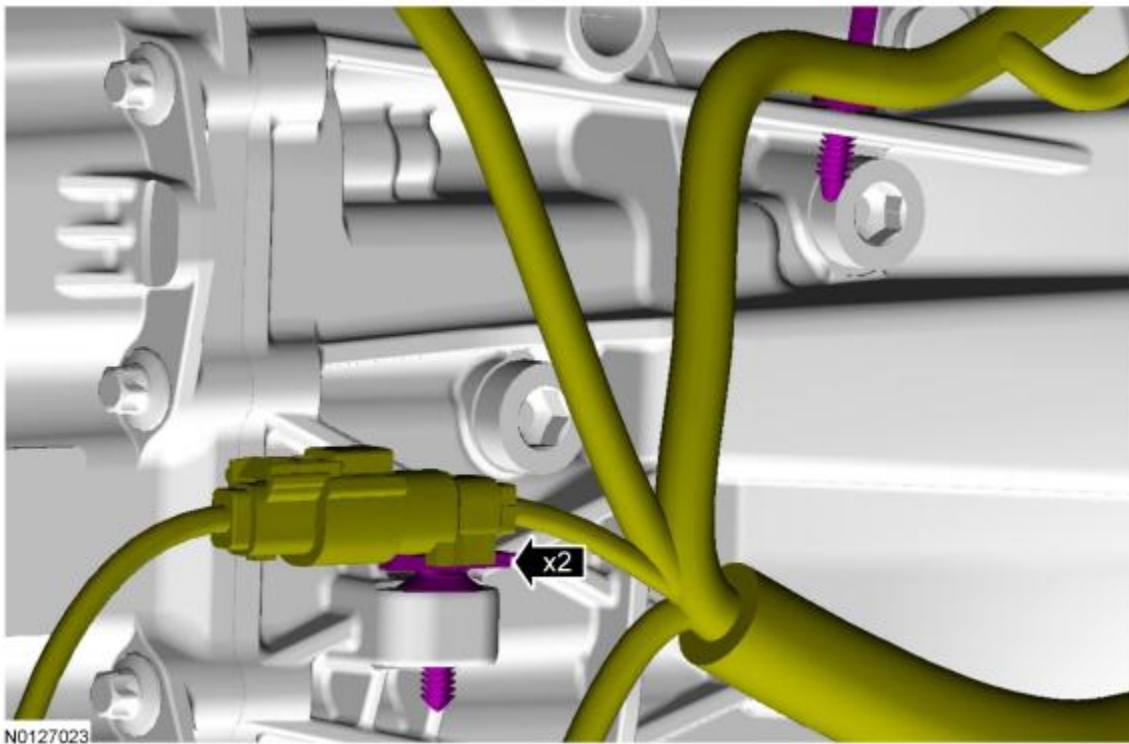


RH HO2S on 5.0L engine with manual transmission

4. Disconnect the skip shift solenoid electrical connector.



5. Detach the 2 wiring harness retainers.



RH HO2S on 5.0L and 5.8L engines

6. Remove the battery tray. Refer to [Section 414-01](#).

RH HO2S on 5.0L engine

7. Pull the wiring harness up toward the rear of the engine to access the HO2S electrical connector.

All sensors

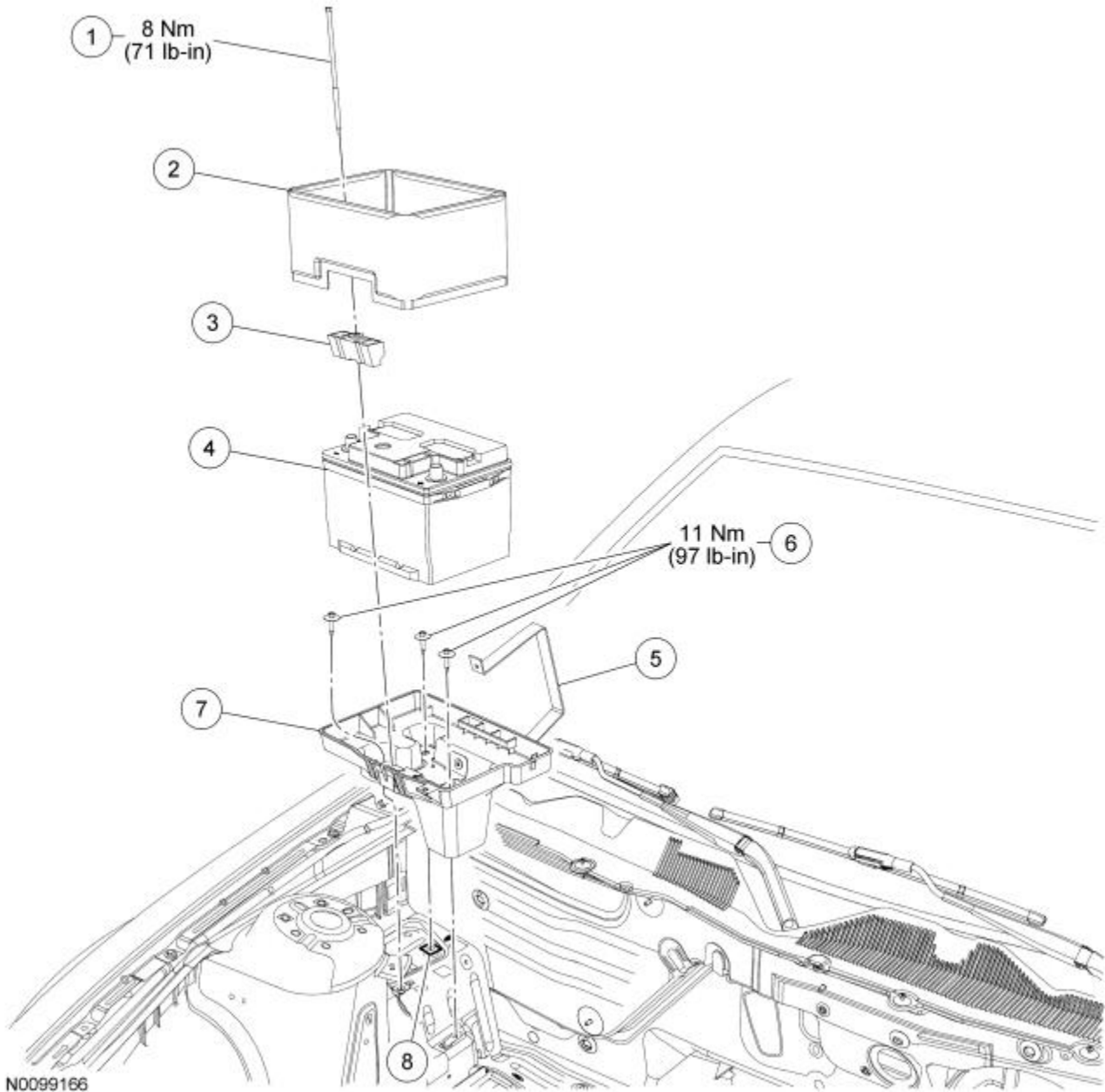
8. Detach the pin type retainer and disconnect the HO2S electrical connector.
9. **NOTE:** If necessary, lubricate the HO2S threads with penetrating and lock lubricant to aid in removal.

Using a crowfoot wrench, remove the HO2S.

- Calculate the correct torque wrench setting for the following torque. [Refer to the Torque Wrench Adapter Formulas in the Appendix.](#)
 - To install, use a crowfoot wrench, tighten to 48 Nm (35 lb-ft).
10. To install, reverse the removal procedure.
 - Apply a light coat of anti-seize lubricant to the threads of the HO2S before installing.
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Battery and Battery Tray — Exploded View

Material	
Item	Specification
Threadlock and Sealer TA-25	WSK-M2G351-A5



Item	Part Number	Description
1	—	Battery hold-down clamp bolt (part of 10718)
2	10A687	Battery heat shield (if equipped)
3	10718	Battery hold-down clamp


4	10655	Battery
5	—	Battery hold-down strap (part of 10732)
6	W503923	Battery tray bolts (3 required)
7	10732	Battery tray
8	16774	J-clip nut


NOTE: Disconnect the battery. For additional information, refer to [Battery Disconnect](#) in this section.


NOTE: For GT500 models, apply threadlock and sealer to the battery tray bolt threads during assembly.


1. Refer to the procedures and/or exploded views in this section for any Warnings, Notices, Notes, Materials, Specifications, and Special Tools. Items in the exploded views may not be listed in order of removal.
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Battery Disconnect

 **WARNING:** Batteries contain sulfuric acid and produce explosive gases. Work in a well-ventilated area. Do not allow the battery to come in contact with flames, sparks or burning substances. Avoid contact with skin, eyes or clothing. Shield eyes when working near the battery to protect against possible splashing of acid solution. In case of acid contact with skin or eyes, flush immediately with water for a minimum of 15 minutes, then get prompt medical attention. If acid is swallowed, call a physician immediately. Failure to follow these instructions may result in serious personal injury.

 **WARNING:** Always deplete the backup power supply before repairing or installing any new front or side air bag supplemental restraint system (SRS) component and before servicing, removing, installing, adjusting or striking components near the front or side impact sensors or the restraints control module (RCM). Nearby components include doors, instrument panel, console, door latches, strikers, seats and hood latches. Refer to the Description and Operation portion of [Section 501-20B](#) for location of the RCM and impact sensor(s). To deplete the backup power supply energy, disconnect the battery ground cable and wait at least 1 minute. Be sure to disconnect auxiliary batteries and power supplies (if equipped). Failure to follow these instructions may result in serious personal injury or death in the event of an accidental deployment.

 **WARNING:** Always lift a plastic-cased battery with a battery carrier or with hands on opposite corners. Excessive pressure on the battery end walls may cause acid to flow through the vent caps, resulting in personal injury and/or damage to the vehicle or battery.

 **WARNING:** Battery posts, terminals and related accessories contain lead and lead components. Wash hands after handling. Failure to follow these instructions may result in serious personal injury.

NOTE: When the battery (or PCM) is disconnected and connected, some abnormal drive symptoms may occur while the vehicle relearns its adaptive strategy. The charging system set point may also vary. The vehicle may need to be driven to relearn its strategy.

1. **NOTE:** When disconnecting the battery ground cable to interrupt power to the vehicle electrical system, disconnect the battery ground cable only. It is not necessary to disconnect the positive battery cable.

Disconnect the battery ground terminal.

- To connect, tighten to 7 Nm (62 lb-in).
2. Disconnect the positive battery terminal.
 - To connect, tighten to 7 Nm (62 lb-in).
 3. To connect, reverse the disconnect procedure.
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