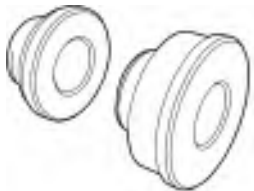


Valve Cover LH

Special Tool(s) / General Equipment

 E234304	205-142 (T80T-4000-J) Installer, Differential Bearing Cone
 E133913	205-153 (T80T-4000-W) Handle
 E175042	303-1247 VCT Spark Plug Tube Seal Remover and Installer TKIT-2006UF-FLM TKIT-2006UF-ROW
Plastic Scraper	

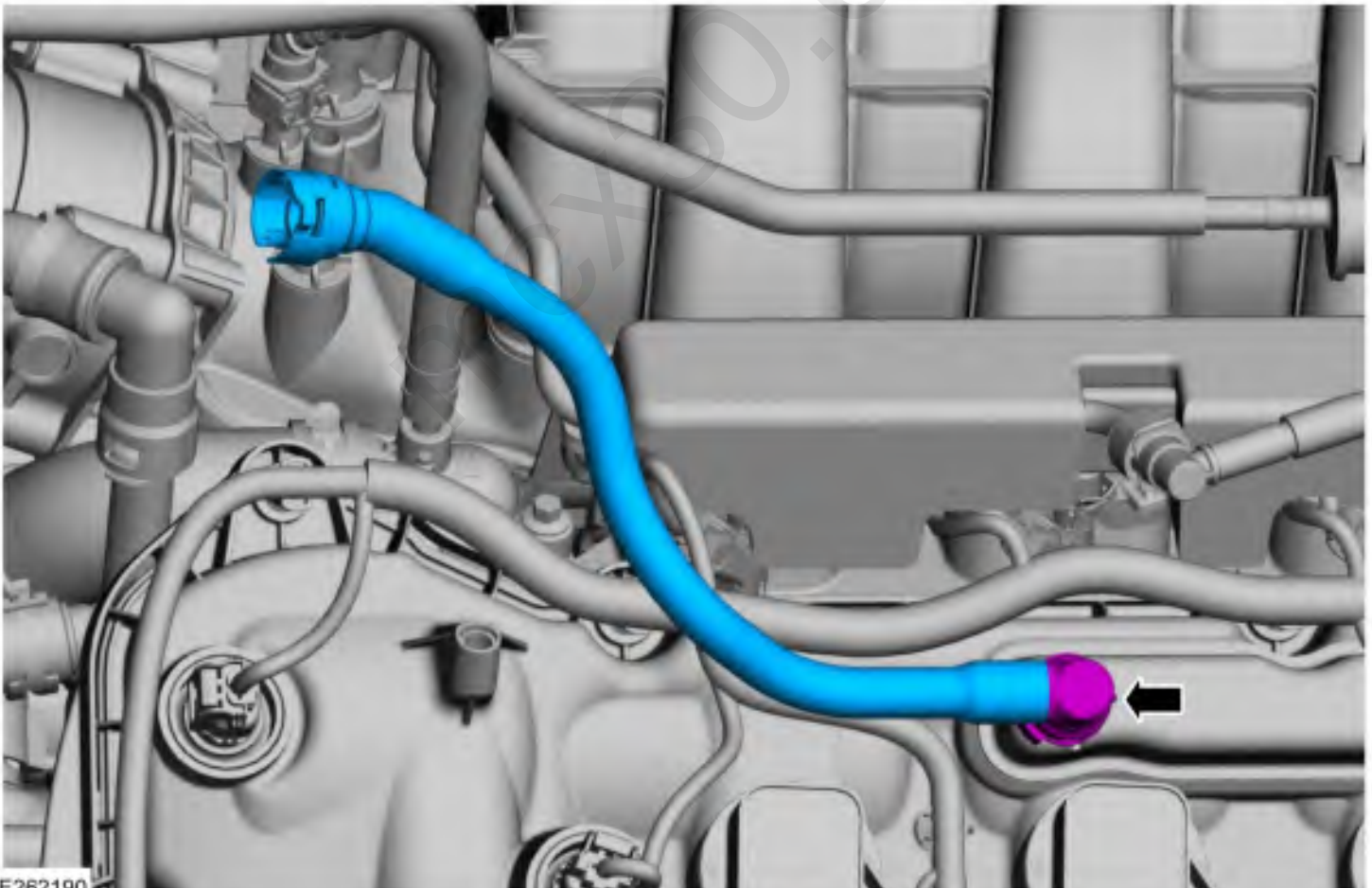
Materials

Name	Specification
Motorcraft® Silicone Gasket Remover ZC-30-A	-
Motorcraft® Metal Surface Prep Wipes ZC-31-B	-
Motorcraft® Silicone Gasket and Sealant TA-30	WSE-M4G323-A4

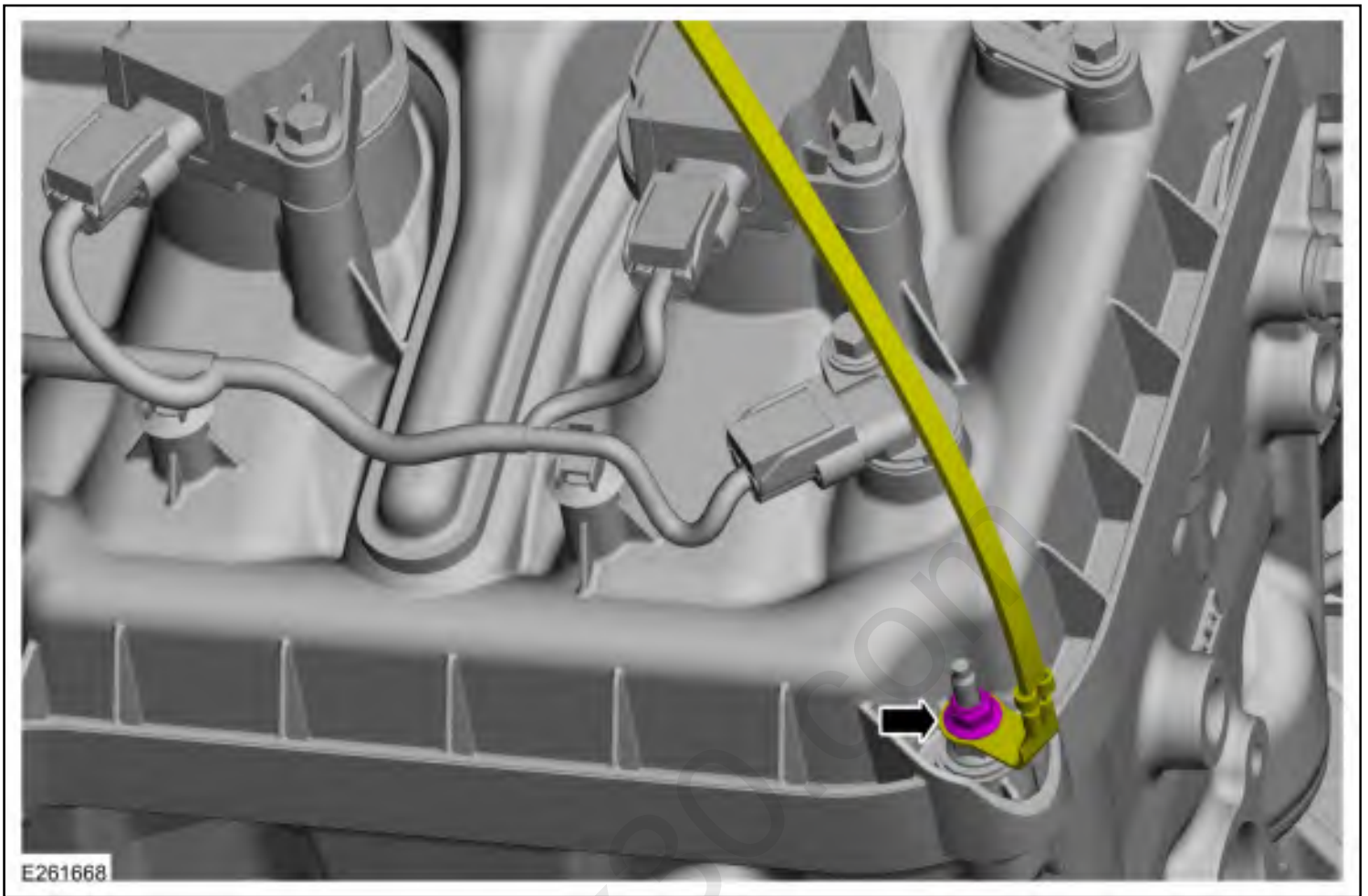
Removal

NOTICE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces, that enters the oil passages, coolant passages or the oil pan, can cause engine failure.

1. Remove the following items:
 1. Refer to: [Air Cleaner Outlet Pipe](#) (303-12D Intake Air Distribution and Filtering - 5.0L 32V Ti-VCT, Removal and Installation).
 2. Refer to: [Air Cleaner](#) (303-12D Intake Air Distribution and Filtering - 5.0L 32V Ti-VCT, Removal and Installation).
2. Disconnect the quick release coupling and remove the PCV tube.
Refer to: [Quick Release Coupling](#) (310-00D Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).



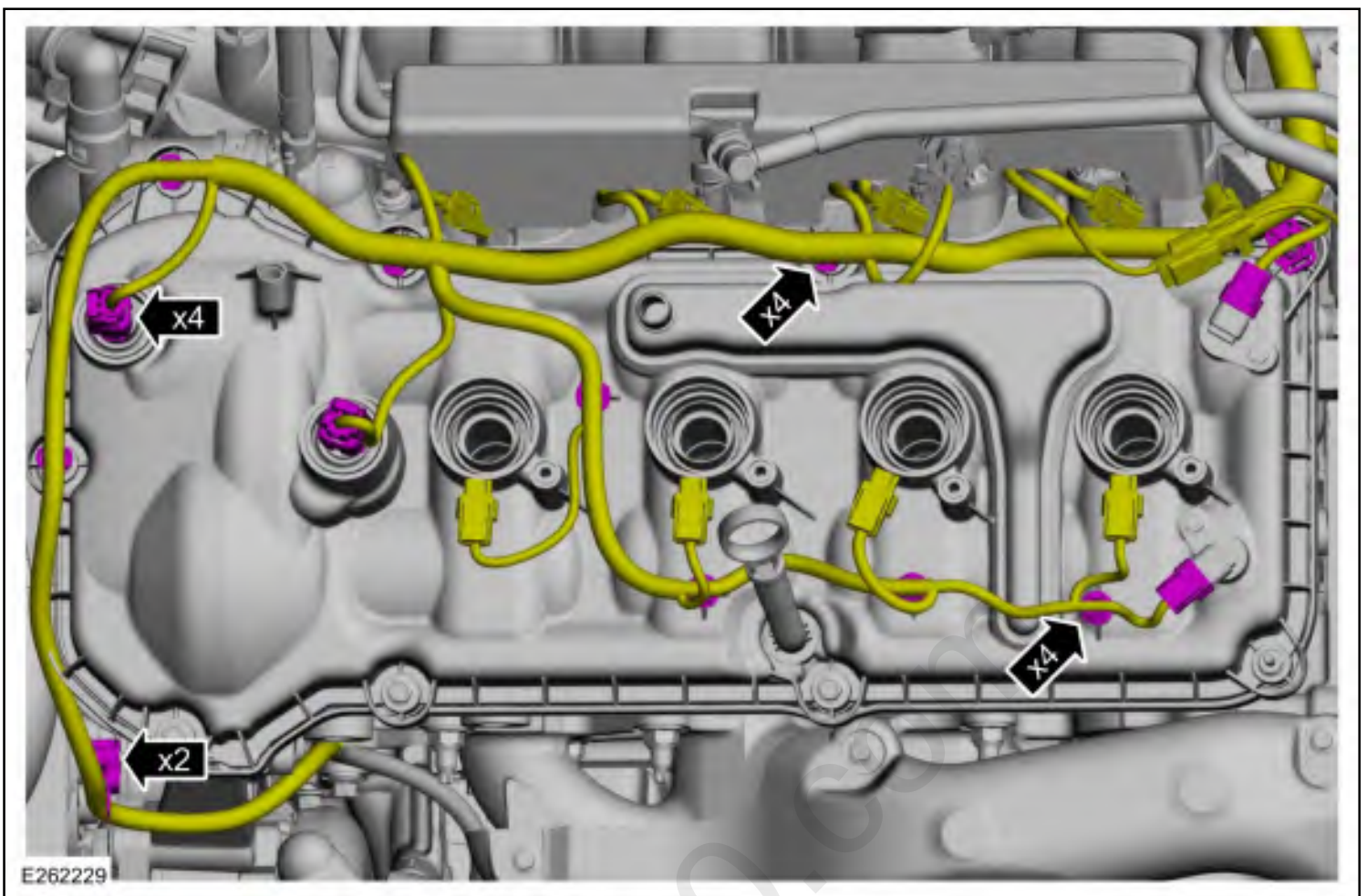
3. Remove the nut and ground wire.



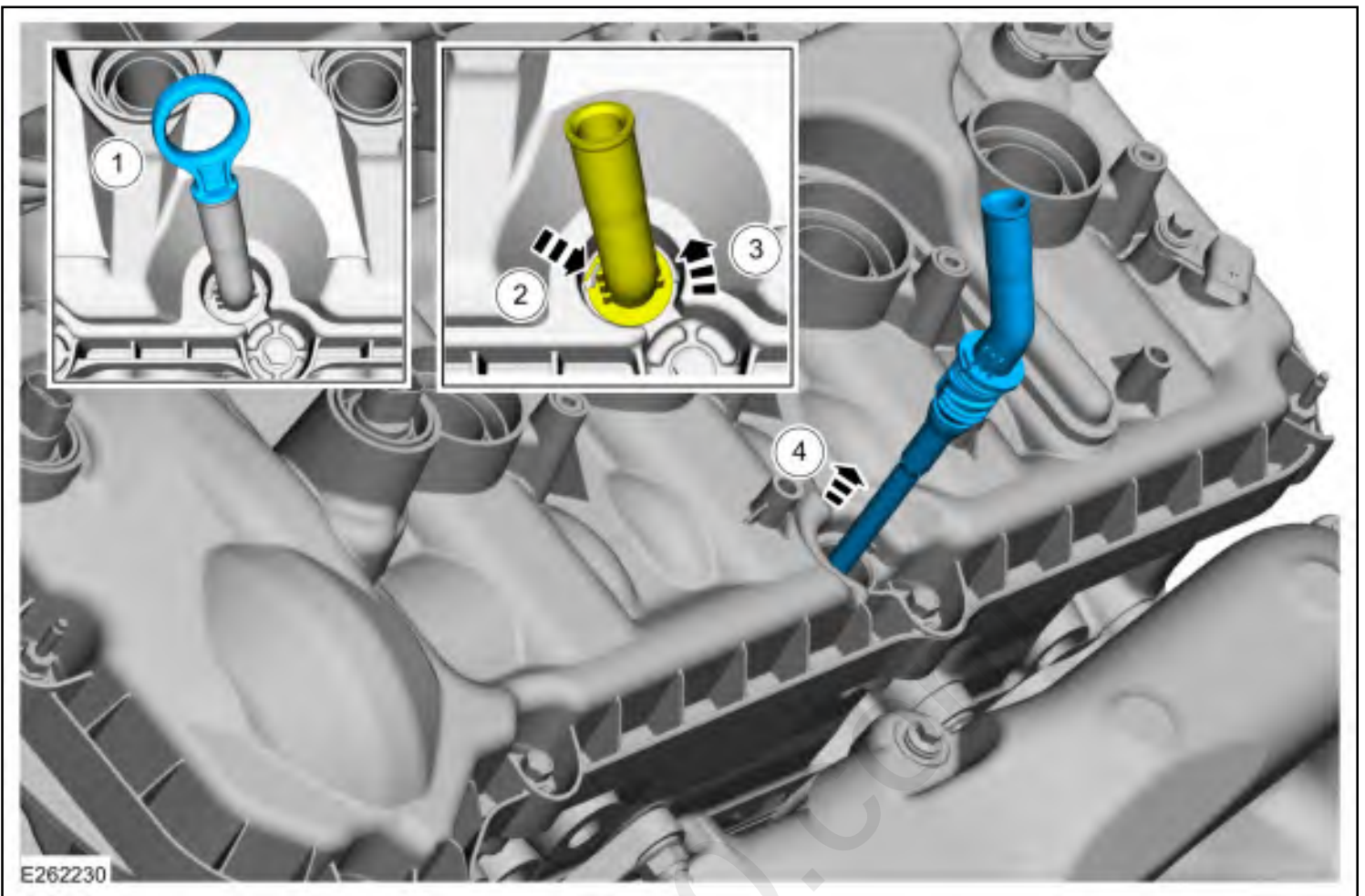
4. Remove the LH ignition coils.

Refer to: Ignition Coil-On-Plug (303-07 Engine Ignition - 5.0L 32V Ti-VCT) .

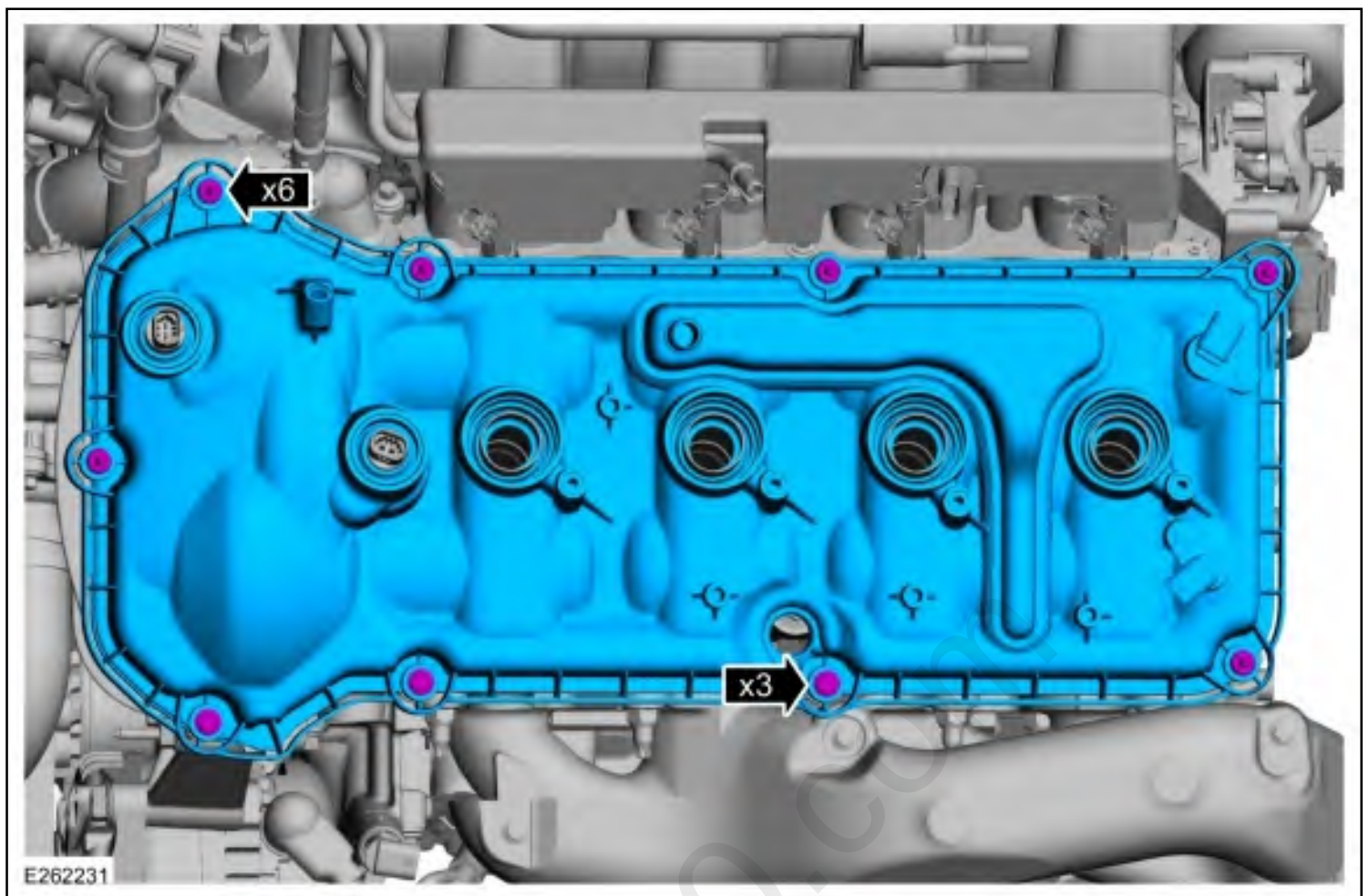
- Disconnect the engine wiring harness electrical connectors.
- Detach the wiring harness retainers.



1. Remove the oil level indicator.
2. Depress the tab.
3. Rotate the oil level indicator tube counterclockwise.
4. Pull the oil level indicator tube from the engine.

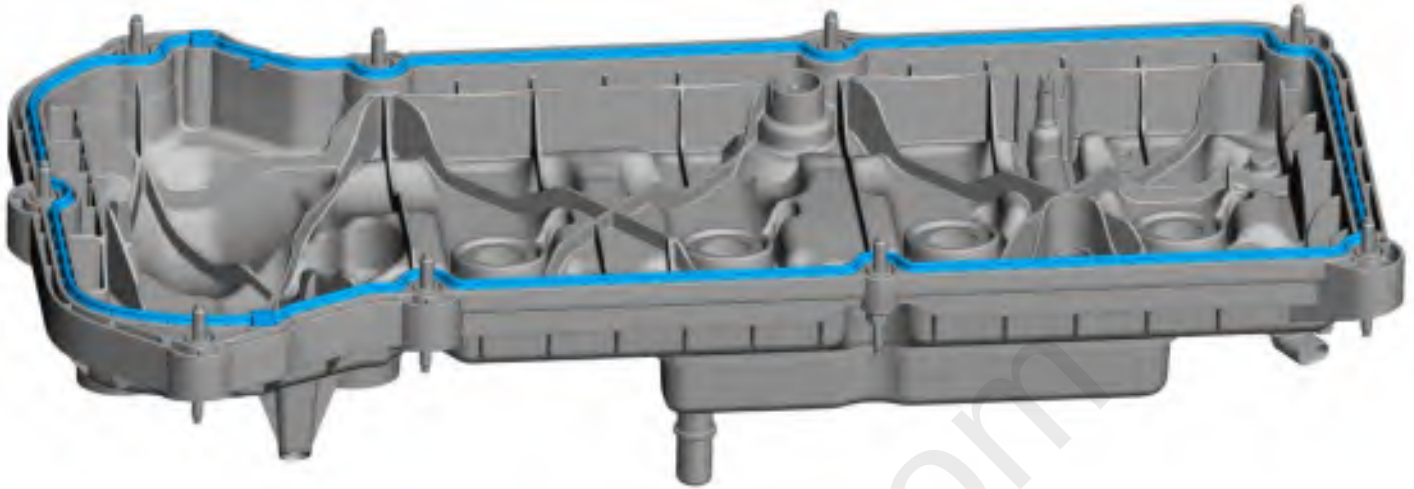


7. Loosen the fasteners and remove the valve cover.



8. **NOTE:** Clean the valve cover gasket groove with soap and water or a suitable solvent.

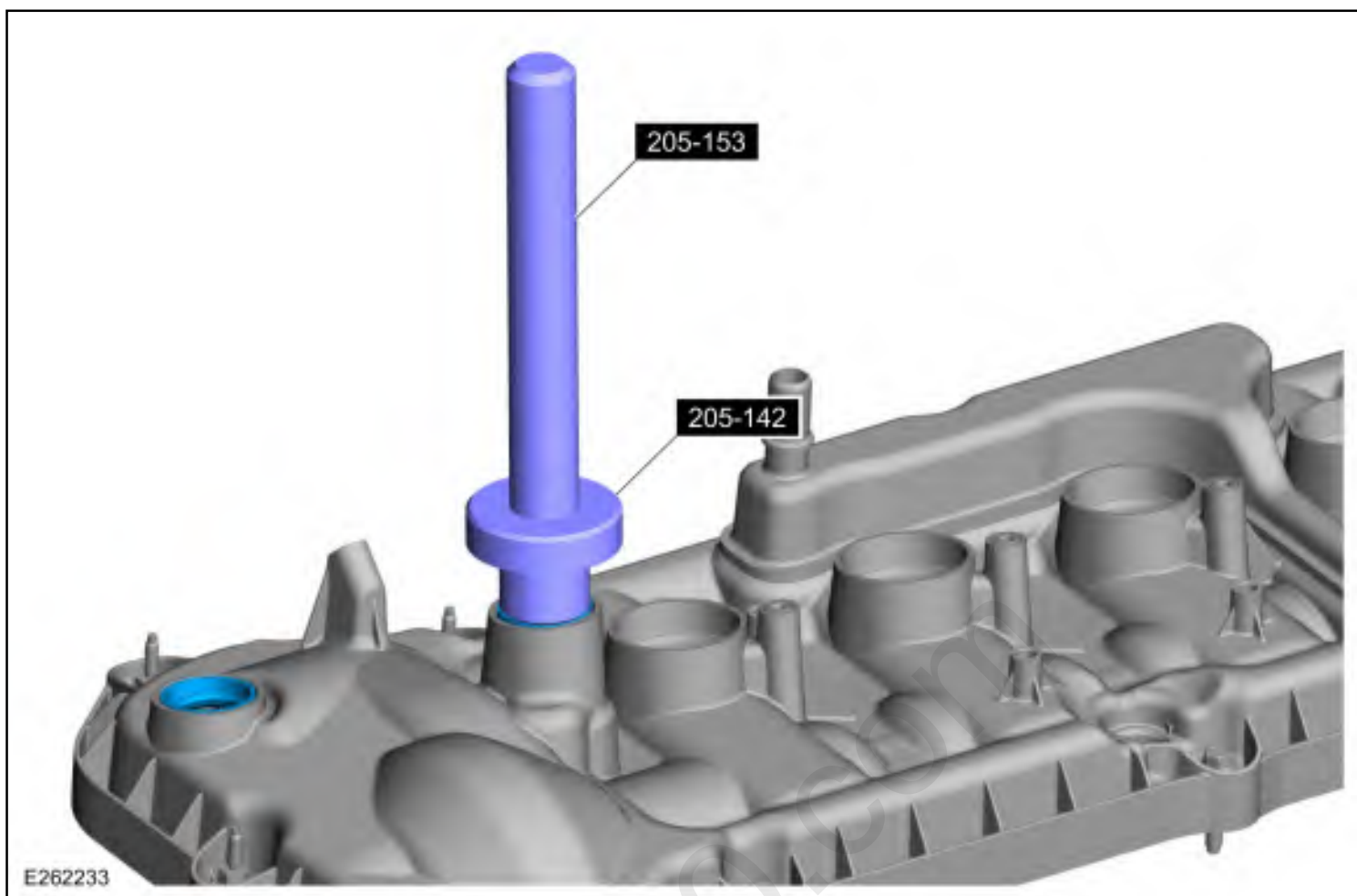
Remove and discard the gasket.



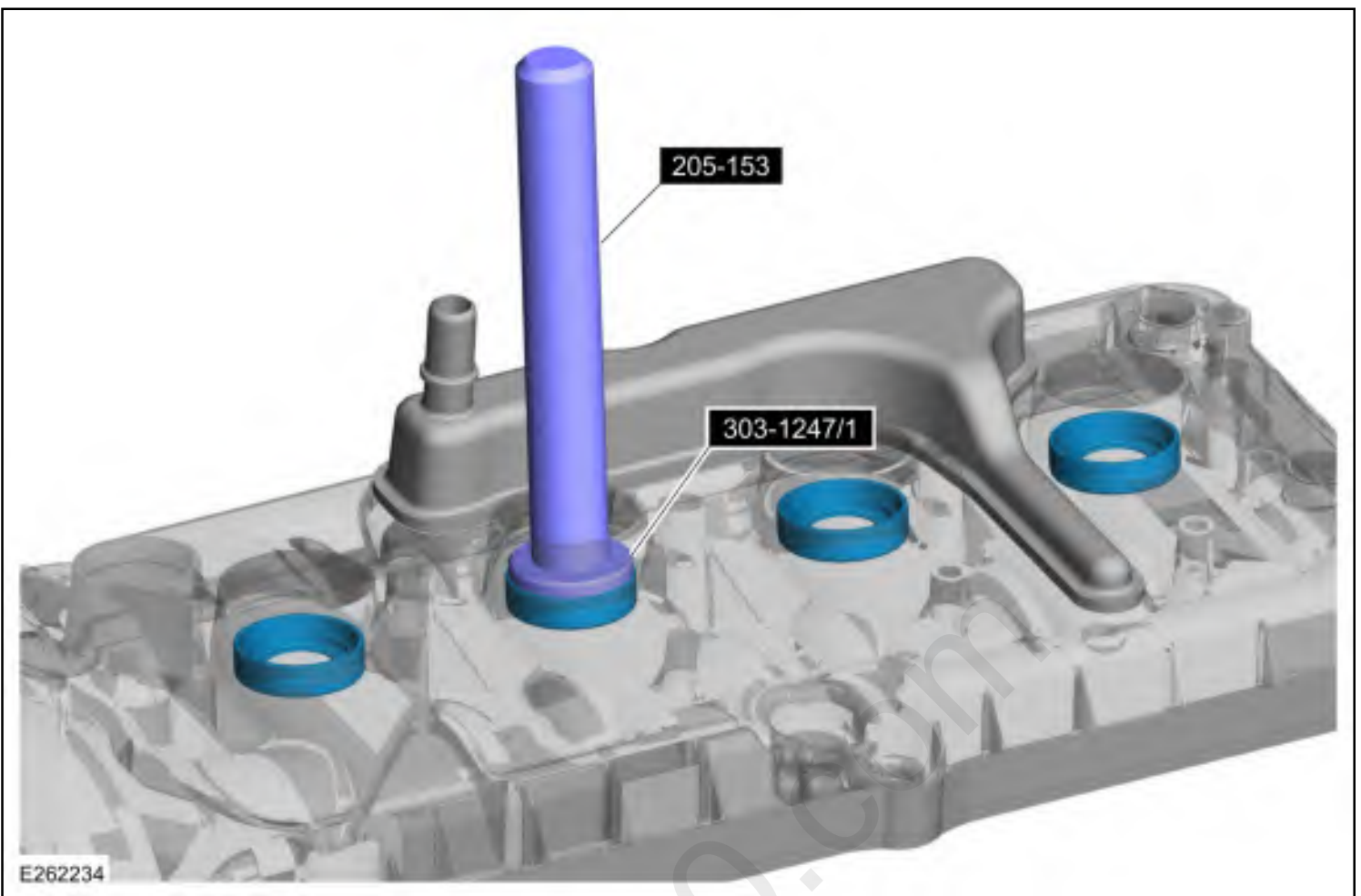
E262232



9. Inspect the VCT variable force solenoid seals. Remove any damaged seals using the special tools. Use Special Service Tool: 205-153 (T80T-4000-W) Handle. , 205-142 (T80T-4000-J) Installer, Differential Bearing Cone.



10. Inspect the spark plug seals. Remove any damaged seals using the special tools.
Use Special Service Tool: 205-153 (T80T-4000-W) Handle. , 303-1247 VCT Spark Plug Tube Seal Remover and Installer.



11. **NOTICE: Do not use metal scrapers, wire brushes, power abrasive discs or other abrasive means to clean the sealing surfaces. These tools cause scratches and gouges which make leak paths. Use a plastic scraping tool to remove all traces of old sealant.**

Clean the valve cover mating surface of the cylinder head and engine front cover.

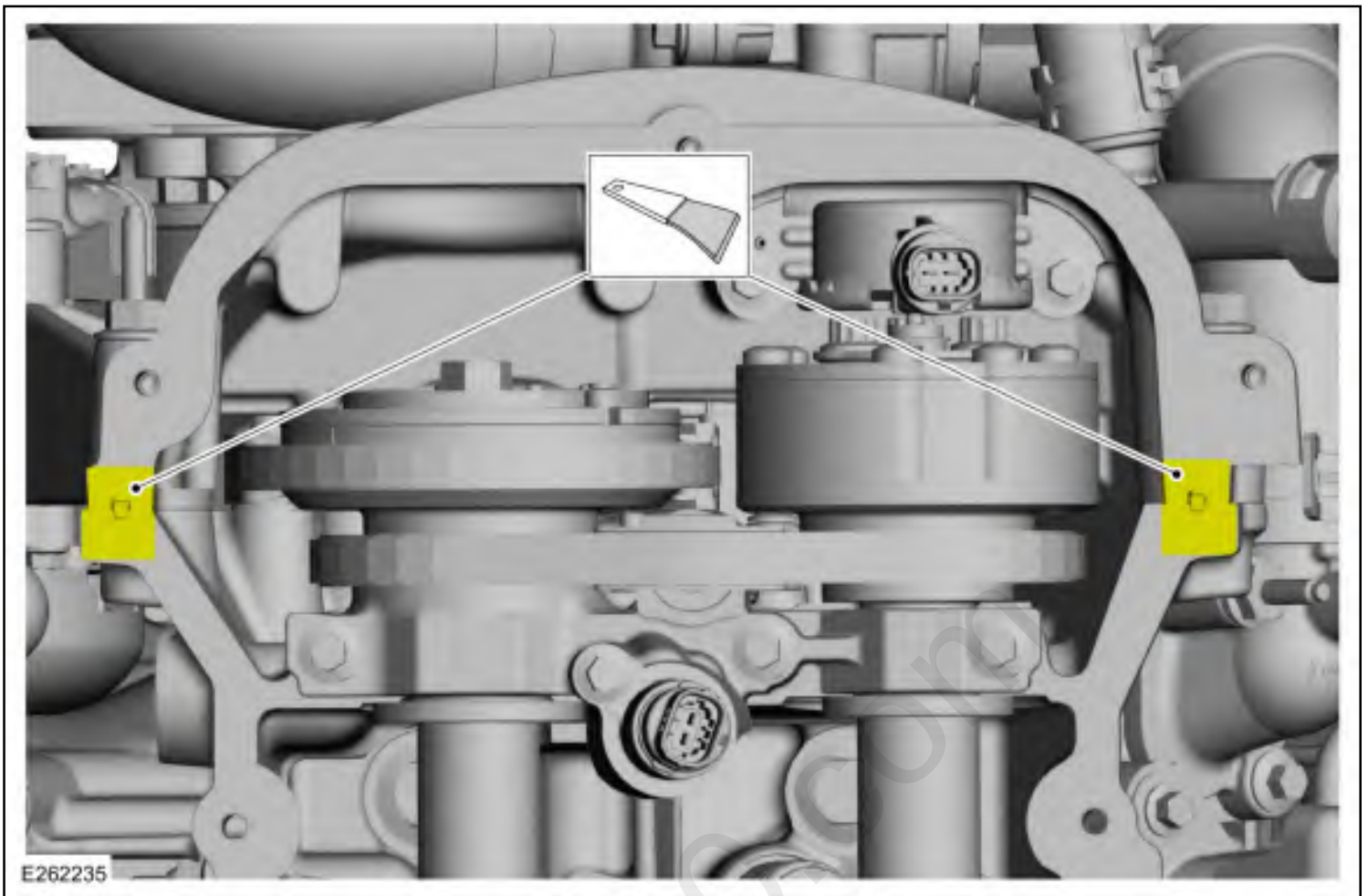
Refer to: [RTV Sealing Surface Cleaning and Preparation](#) (303-00 Engine System - General Information, General Procedures).

Use the General Equipment: Plastic Scraper

Material: Motorcraft® Silicone Gasket Remover / ZC-30-A

Material: Motorcraft® Metal Surface Prep Wipes / ZC-31-B

Material: Motorcraft® Metal Brake Parts Cleaner / PM-4-A, PM-4-B

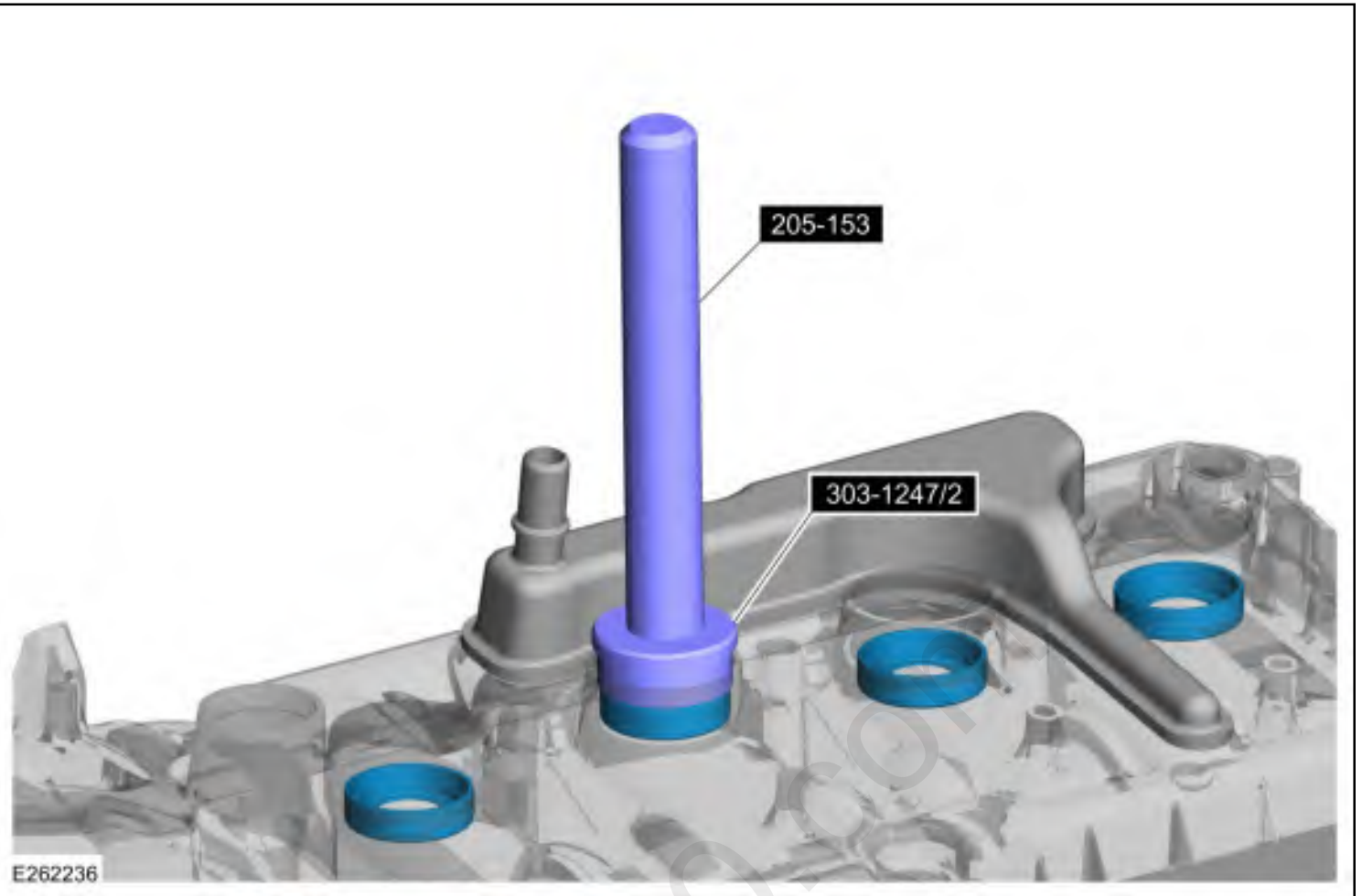


Installation

1. **NOTE:** *Installation of new seals is only required if damaged seals were removed.*

Using the special tools, install new spark plug tube seals.

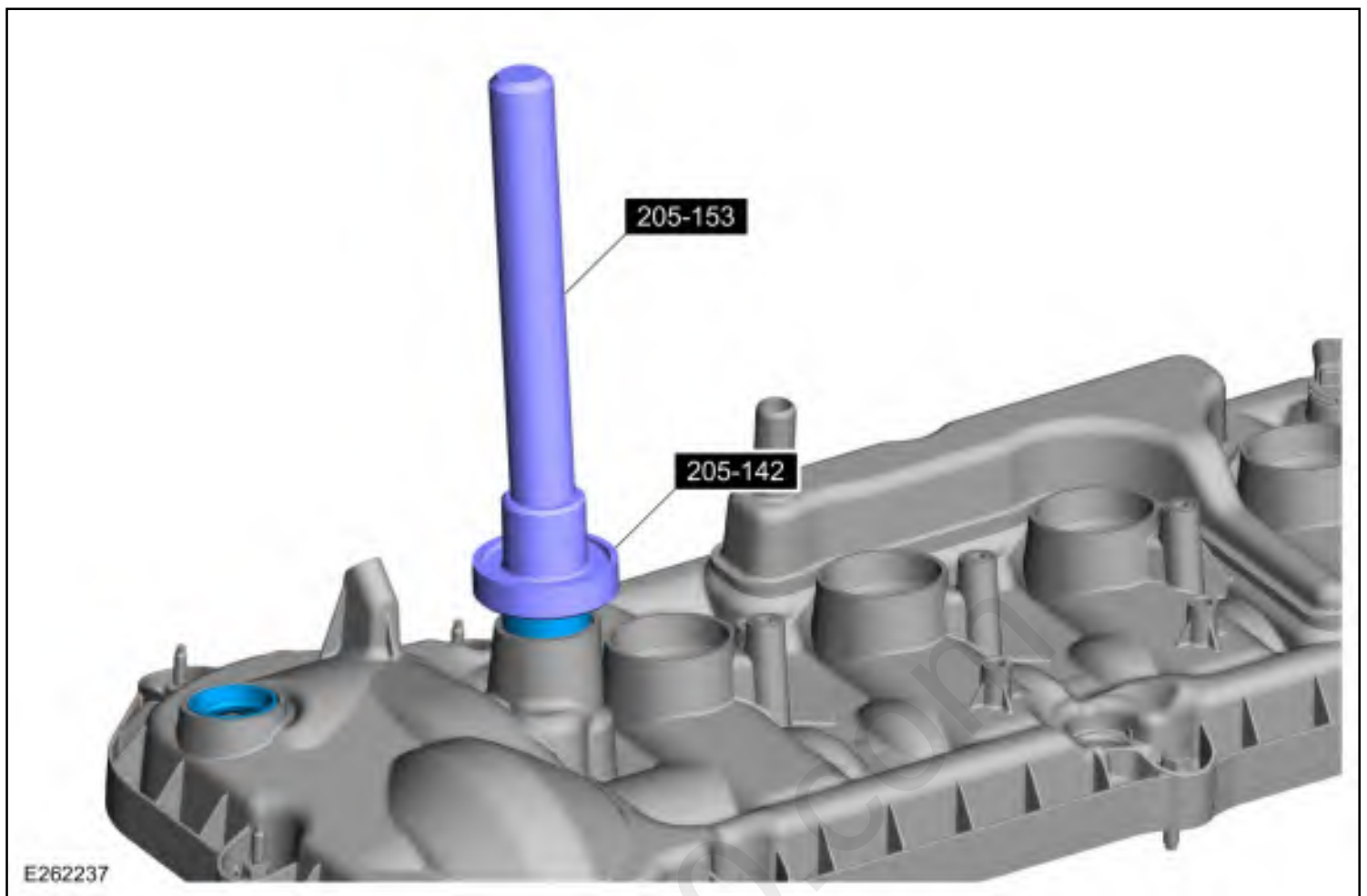
Use Special Service Tool: 205-153 (T80T-4000-W) Handle. , 303-1247 VCT Spark Plug Tube Seal Remover and Installer.



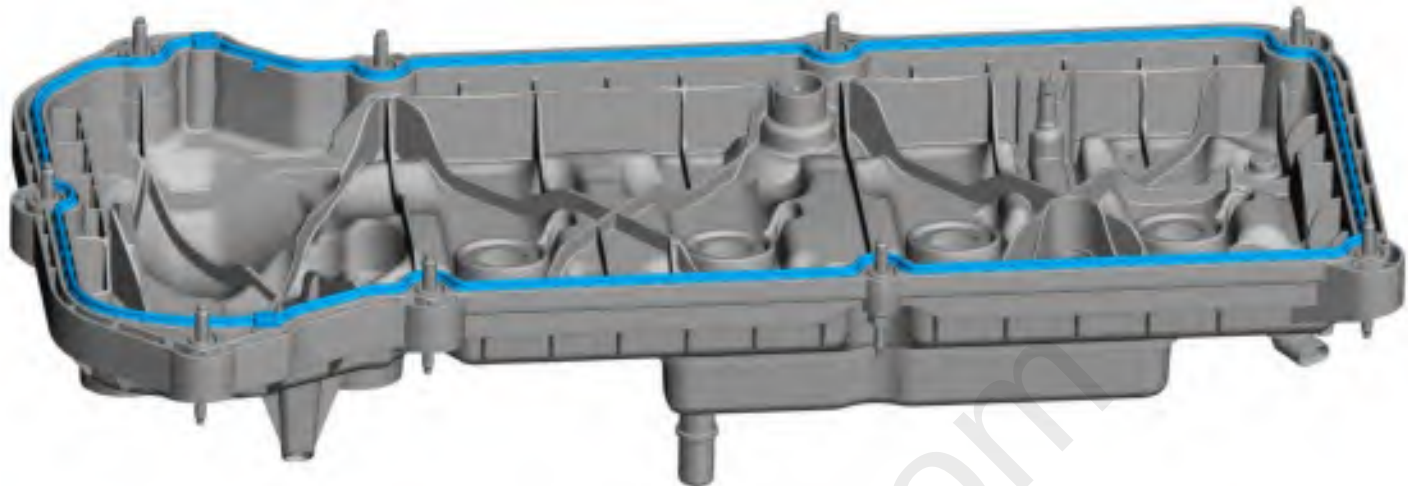
2. **NOTE:** *Installation of new seals is only required if damaged seals were removed.*

Using the special tools, install new VCT variable force solenoid seals.

Use Special Service Tool: 205-153 (T80T-4000-W) Handle. , 205-142 (T80T-4000-J) Installer, Differential Bearing Cone.



3. Install a new gasket.



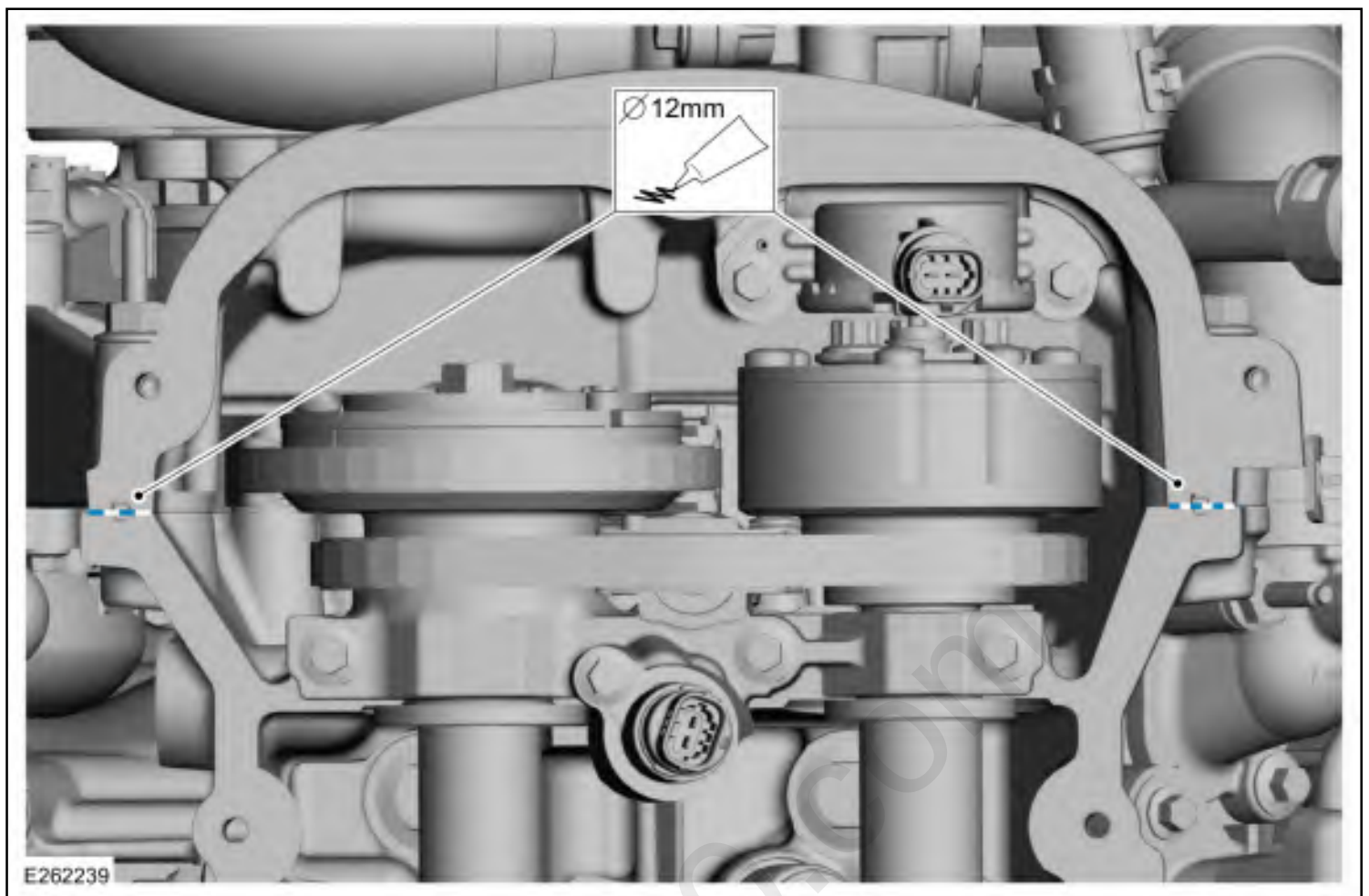
E262238



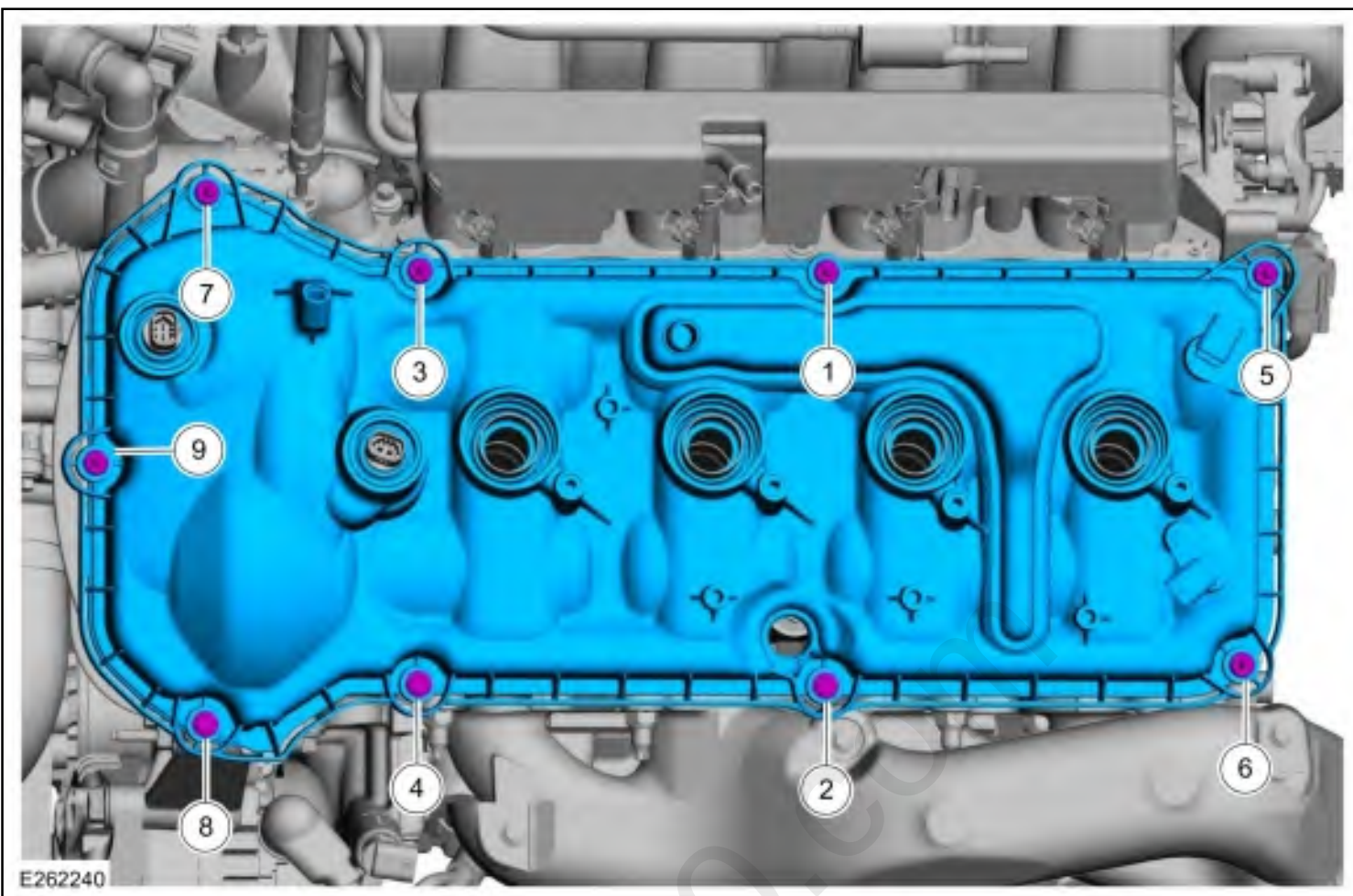
4. **NOTICE:** If the valve cover is not installed and the fasteners tightened within 5 minutes, the sealant must be removed and the sealing area cleaned.

Apply an 12 mm (0.47 in) bead of silicone gasket and sealant to the engine front cover-to-cylinder head joints.

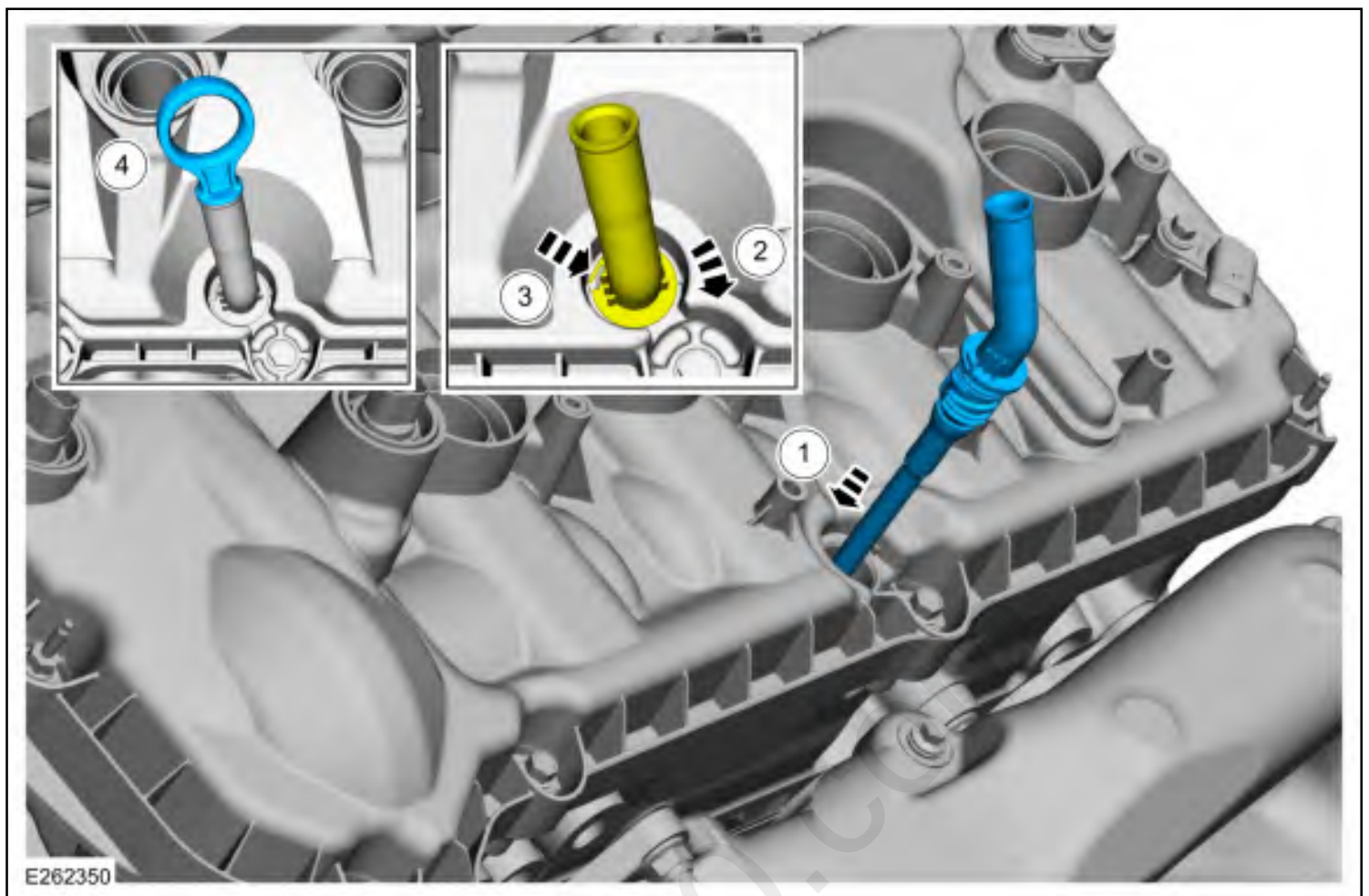
Material: Motorcraft® Silicone Gasket and Sealant / TA-30 (WSE-M4G323-A4)



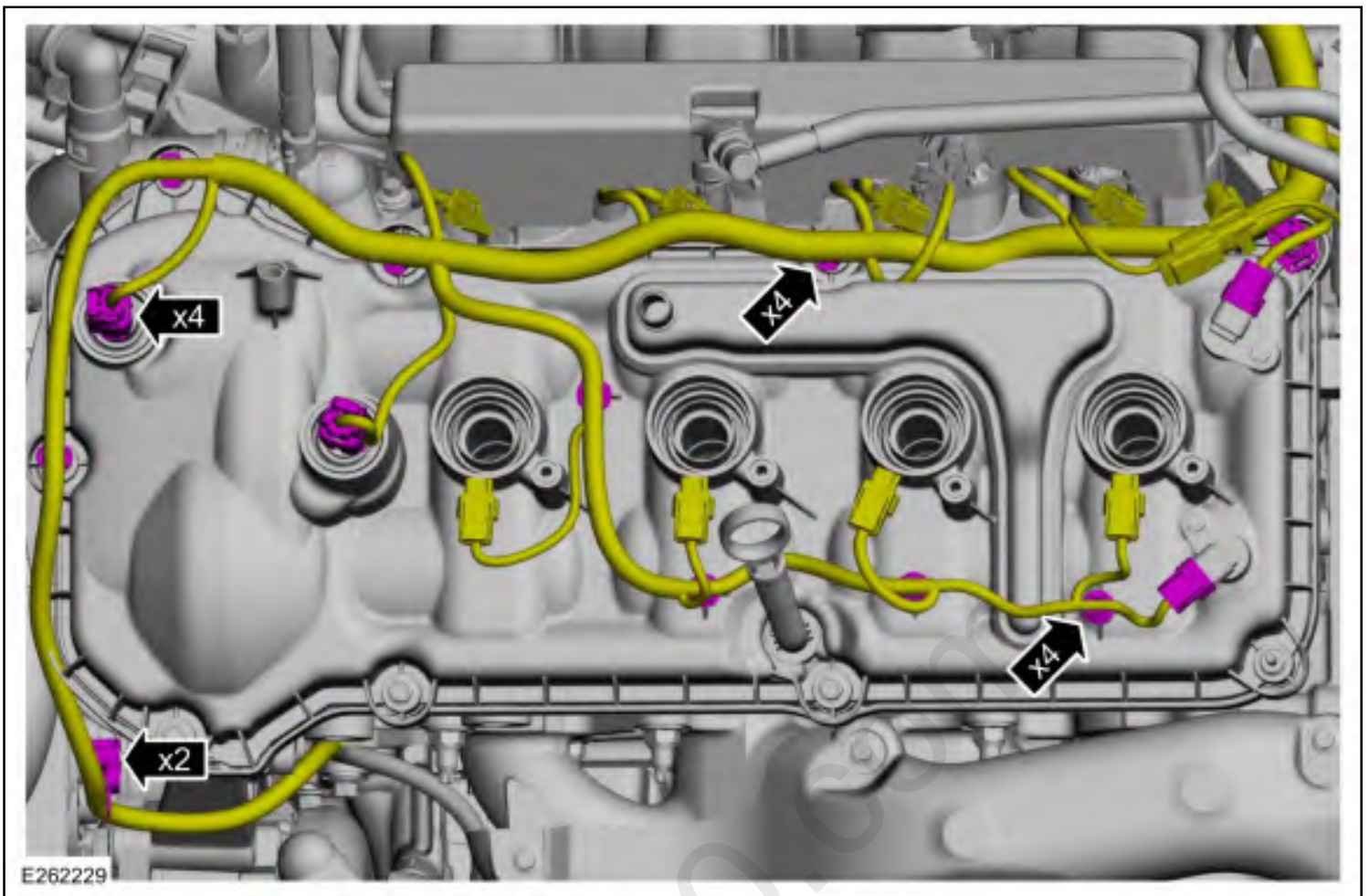
5. Install the valve cover and tighten the bolts.
Torque: 89 lb.in (10 Nm)



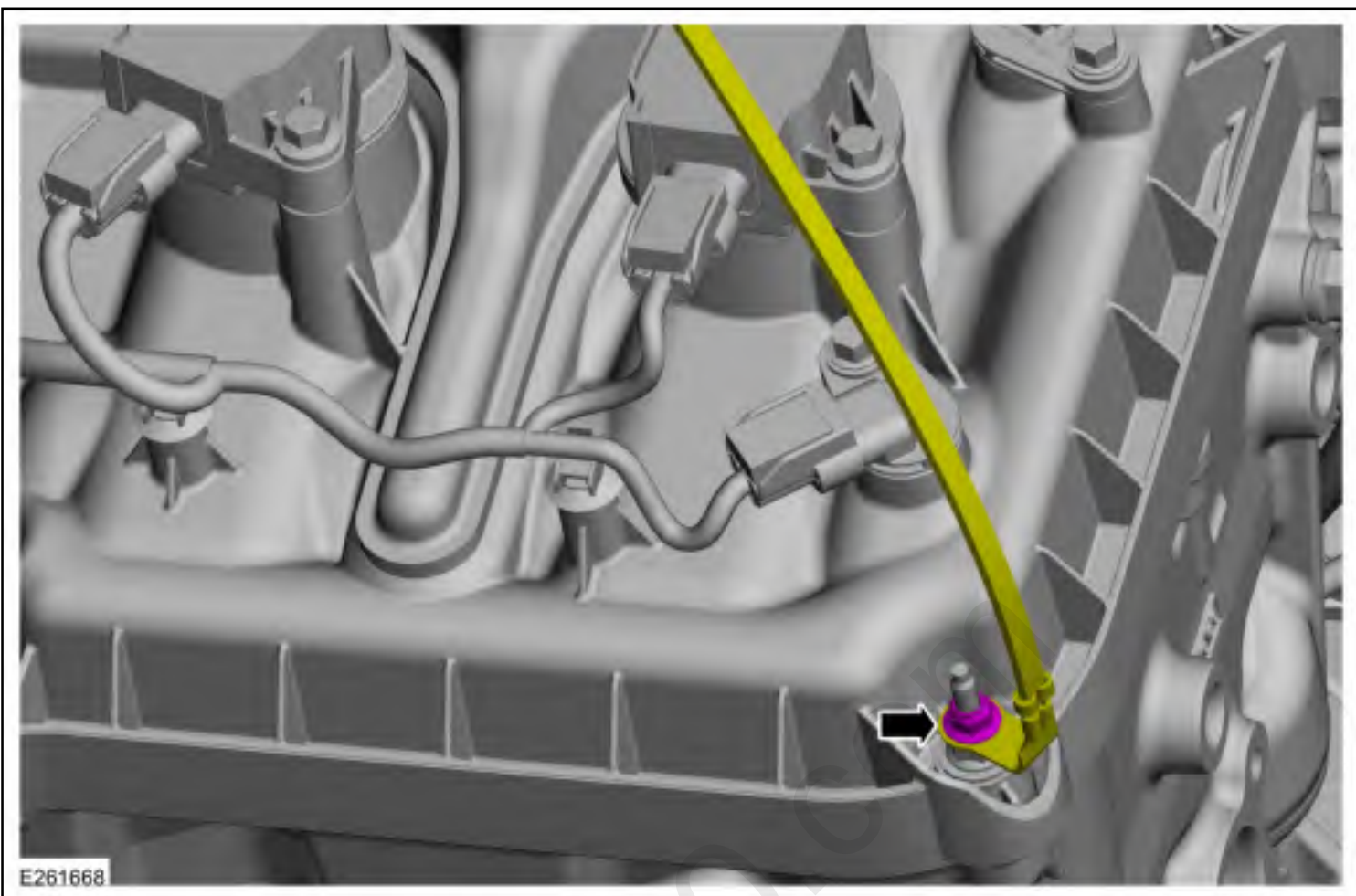
1. Push the oil level indicator tube into the engine.
2. Rotate the oil level indicator tube clockwise.
3. Verify the tab is locked in place.
4. Install the oil level indicator.



- Connect the engine wiring harness electrical connectors.
- Attach the wiring harness retainers.

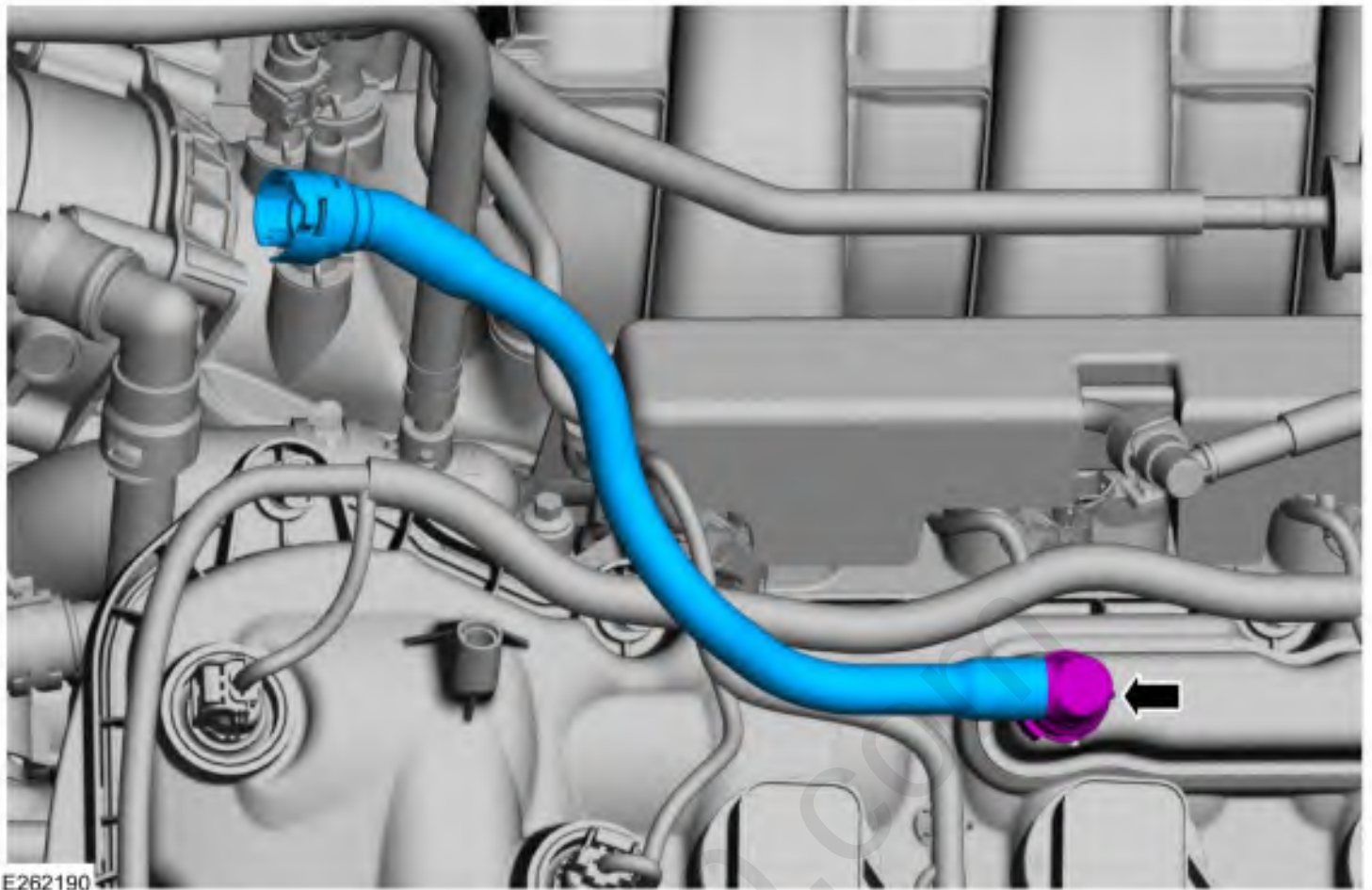


8. Install the LH ignition coils.
Refer to: Ignition Coil-On-Plug (303-07 Engine Ignition - 5.0L 32V Ti-VCT) .
9. Install the ground wire and nut.
Torque: 53 lb.in (6 Nm)



10. Position the PCV tube and connect the quick release coupling.

Refer to: [Quick Release Coupling](#) (310-00D Fuel System - General Information - 5.0L 32V Ti-VCT, General Procedures).



11. Install the following items:

1. Refer to: [Air Cleaner](#) (303-12D Intake Air Distribution and Filtering - 5.0L 32V Ti-VCT, Removal and Installation).
2. Refer to: [Air Cleaner Outlet Pipe](#) (303-12D Intake Air Distribution and Filtering - 5.0L 32V Ti-VCT, Removal and Installation).