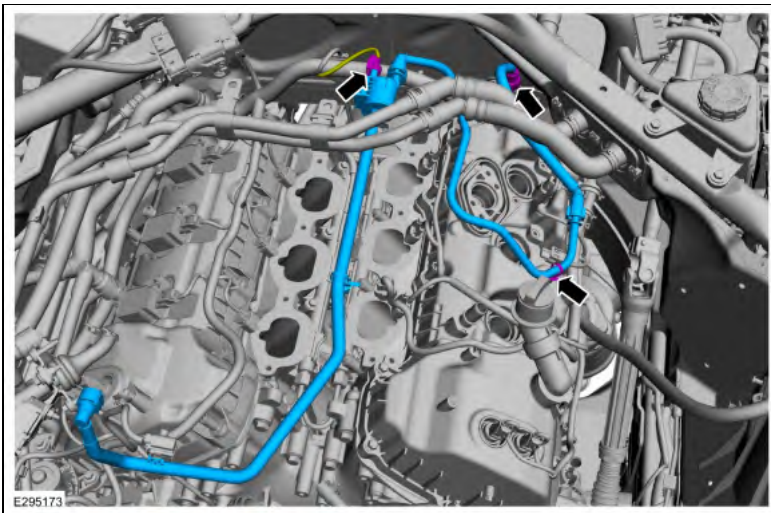
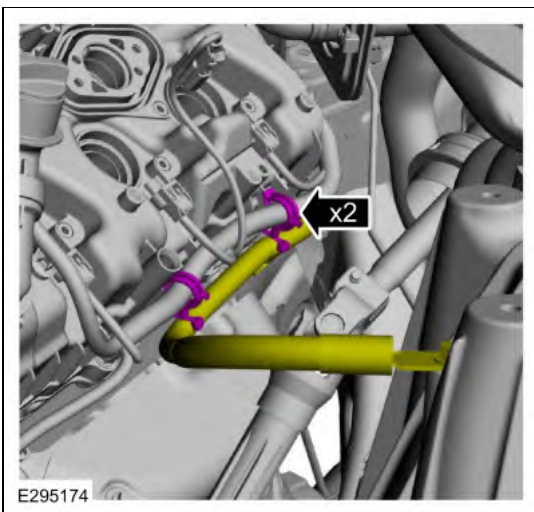
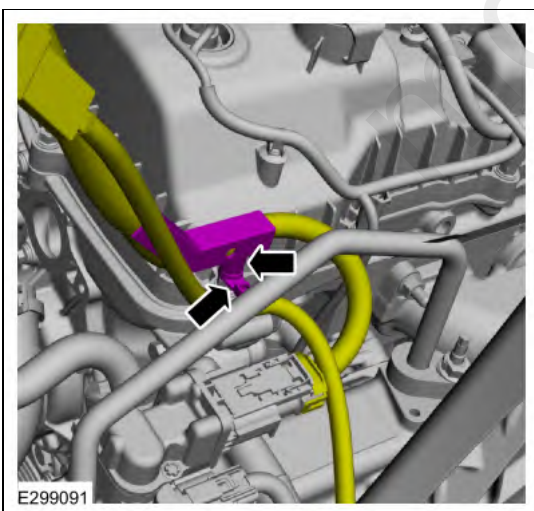




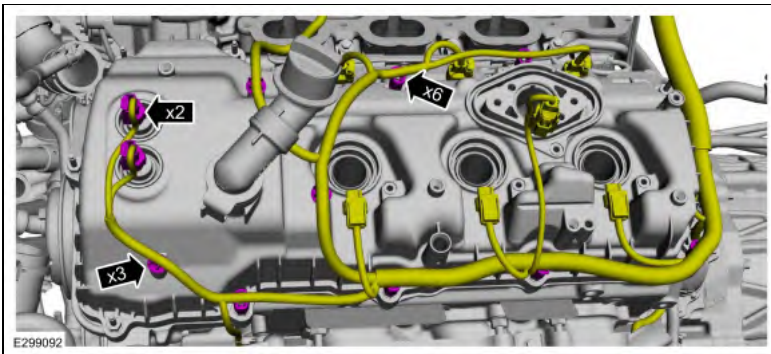
8. Detach the ground wire retainers.



- 9.
- Detach the A/C compressor high-voltage cable wiring retainer from the valve cover stud bolt.
 - If equipped, detach the block heater wiring harness retainer from the valve cover stud bolt.



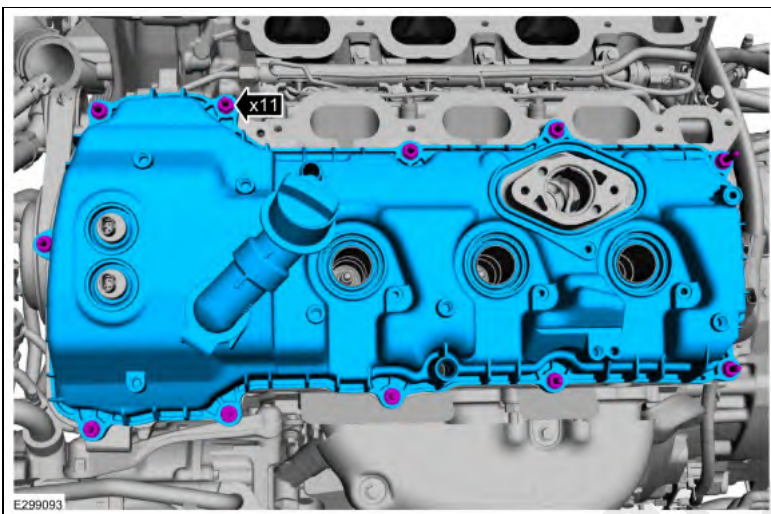
- 10.
- Disconnect the VCT oil control solenoid electrical connectors.
 - Detach the wiring harness retainers.



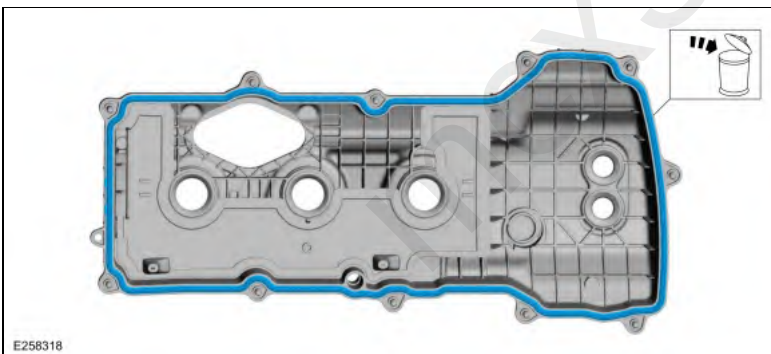
11. **NOTICE:** While removing the valve cover do not apply excessive force to the VCT oil control solenoid or damage may occur.

NOTICE: If the VCT oil control solenoid sticks to the VCT seal, carefully wiggle the valve cover until the bond breaks free or damage to the VCT seal and VCT oil control solenoid may occur.

Loosen the bolts and remove the valve cover.



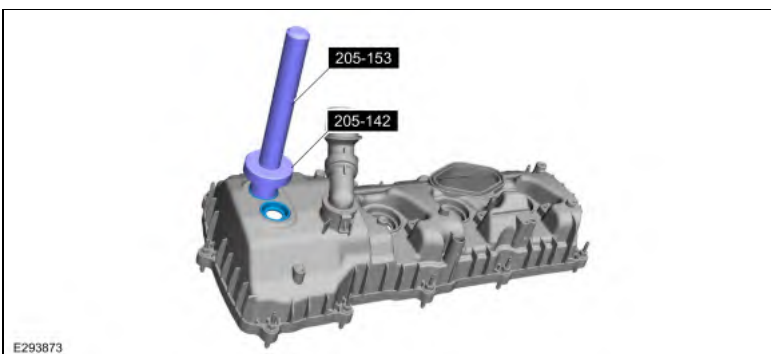
12. Remove and discard the valve cover gasket.



13. **NOTE:** Inspect the VCT oil control solenoid seals. Remove any damaged seals.

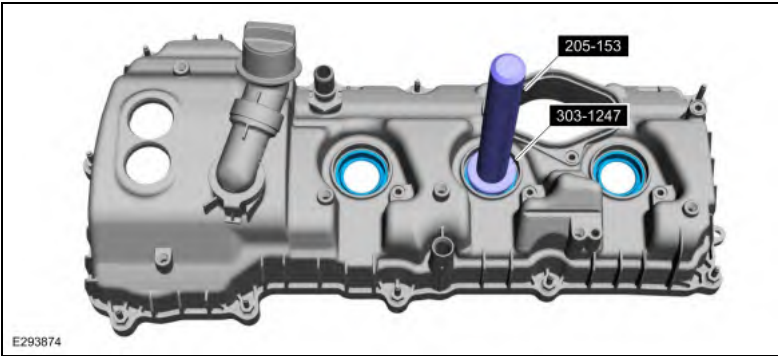
If necessary, using the special tools, remove the VCT oil control solenoid seals.

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

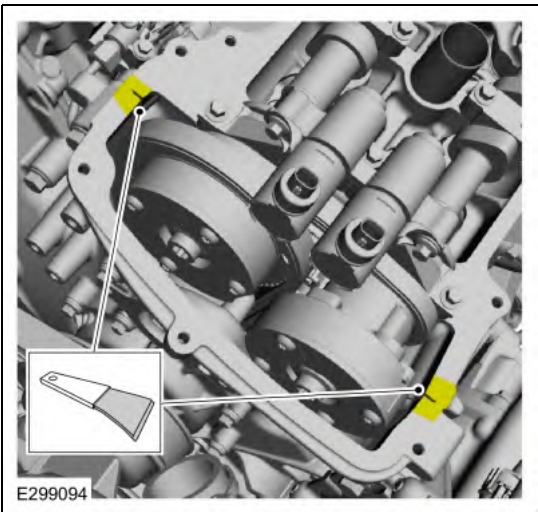


14. **NOTE:** Inspect the spark plug tube seals. Remove any damaged seals.

If necessary, using the special tools, remove the spark plug tube seals.
Use Special Service Tool: 303-1247 VCT Spark Plug Tube Seal Remover and Installer. , 205-153 (T80T-4000-W) Handle.

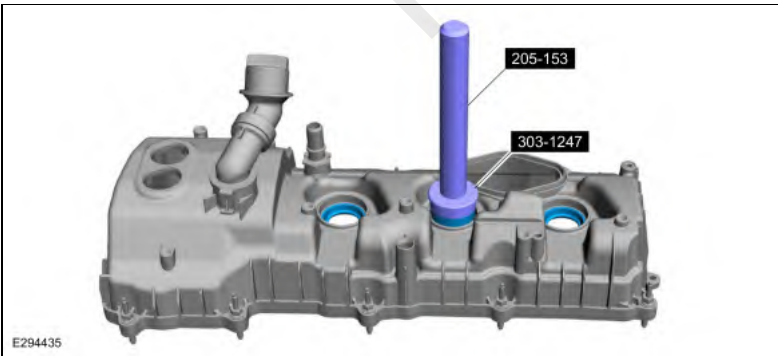


15. Make sure that the mating faces are clean and free of foreign material.
Use the General Equipment: Plastic Scraper
Material: Motorcraft® Silicone Gasket Remover / ZC-30-A
Material: Motorcraft® Metal Brake Parts Cleaner / PM-4-A, PM-4-B
Material: Motorcraft® Metal Surface Prep Wipes / ZC-31-B

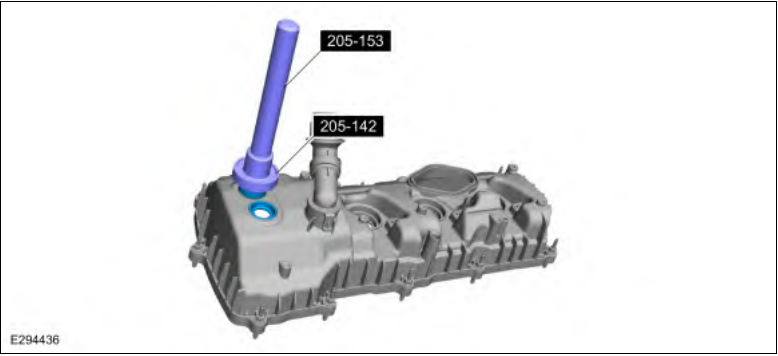


Installation

1. **NOTE:** Installation of new seals is only required if damaged seals were removed.
If removed, using the special tools, install the spark plug tube seals.
Use Special Service Tool: 303-1247 VCT Spark Plug Tube Seal Remover and Installer. , 205-153 (T80T-4000-W) Handle.

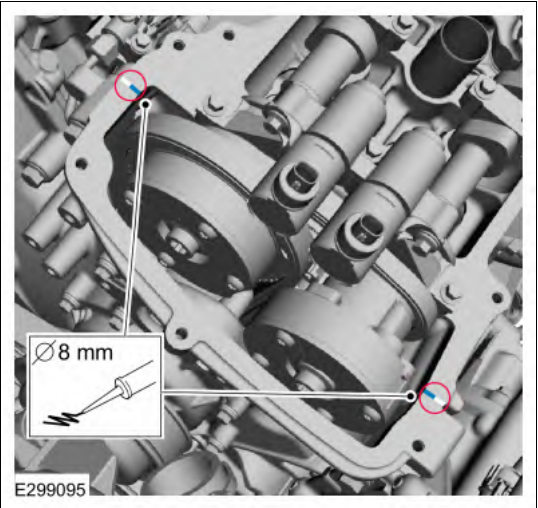


2. **NOTE:** Installation of new seals is only required if damaged seals were removed.
If removed, using the special tools, install the VCT oil control solenoid seals.
Use Special Service Tool: 205-142 (T80T-4000-J) Installer, Differential Bearing Cone. , 205-153 (T80T-4000-W) Handle.

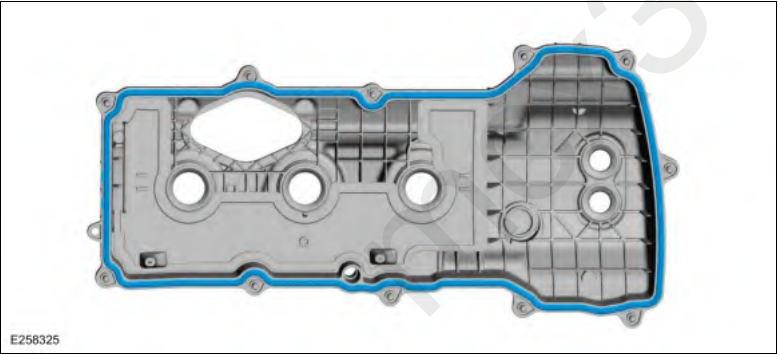


3. **NOTE:** If the valve cover is not installed and the fasteners tightened within 4 minutes, the sealant must be removed and the sealing area cleaned.

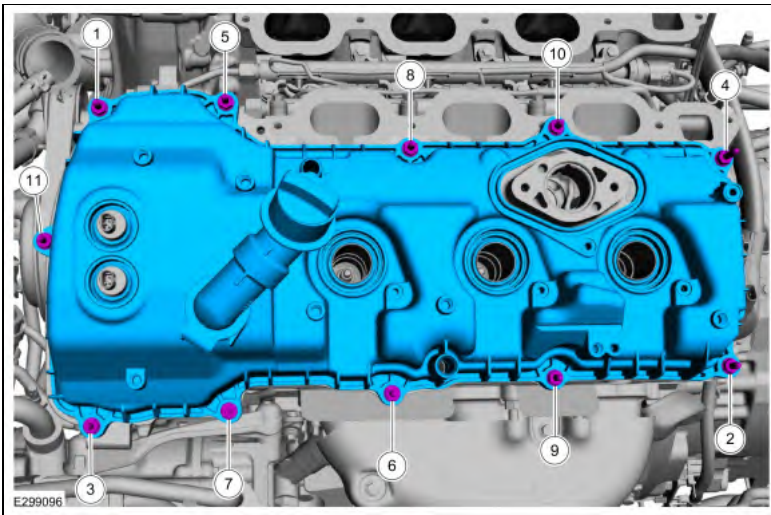
Apply an 8 mm (0.31 in) bead of Motorcraft® High Performance Engine RTV Silicone to the engine front cover-to-cylinder head joints.
Material: Motorcraft® High Performance Engine RTV Silicone / TA-357 (WSE-M4G323-A6)



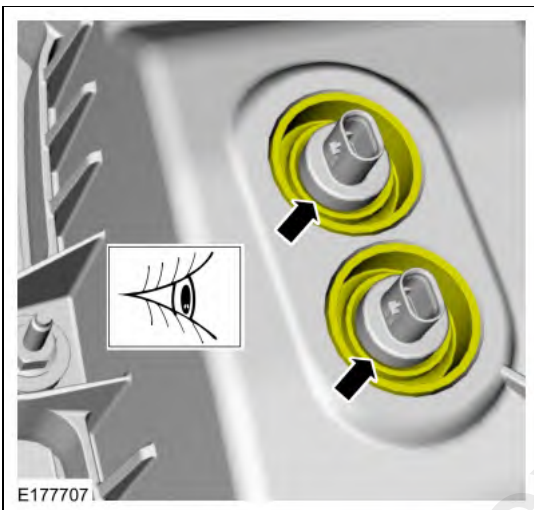
4. Install a new valve cover gasket.



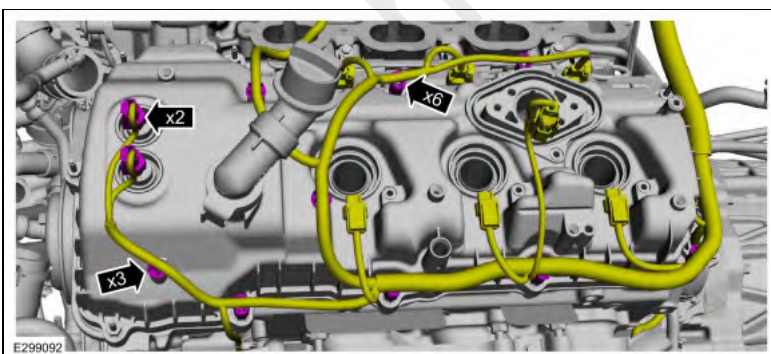
5. Install the valve cover and tighten the bolts.
Torque: 89 lb.in (10 Nm)



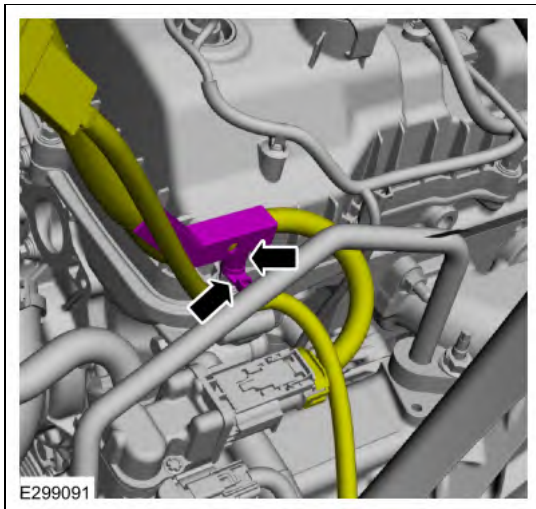
6. Make sure the VCT seals in the valve cover are below the top of the VCT oil control solenoid electrical connector or the VCT seal may leak oil.



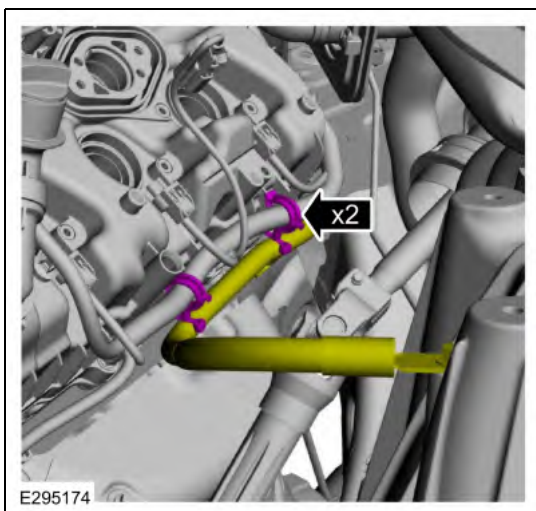
- 7.
- Attach the wiring harness retainers.
 - Connect the VCT oil control solenoid electrical connectors.



- 8.
- If equipped, attach the block heater wiring harness retainer to the valve cover stud bolt.
 - Attach the A/C compressor high-voltage cable wiring retainer to the valve cover stud bolt.

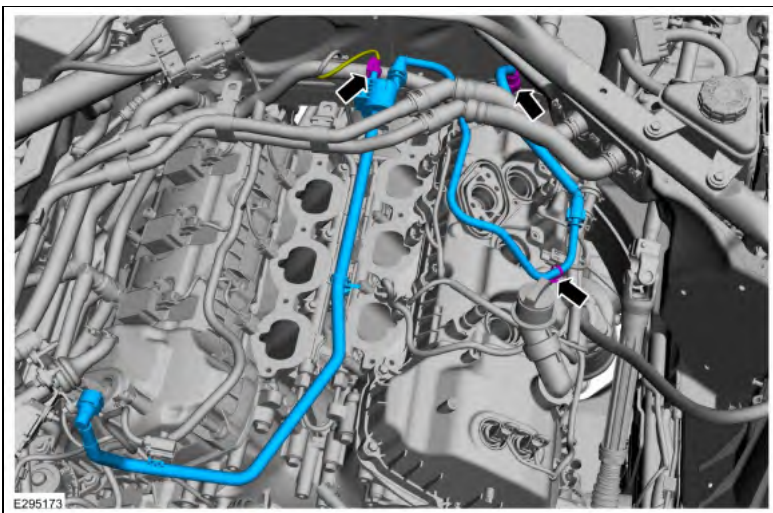


9. Attach the ground wire retainers.

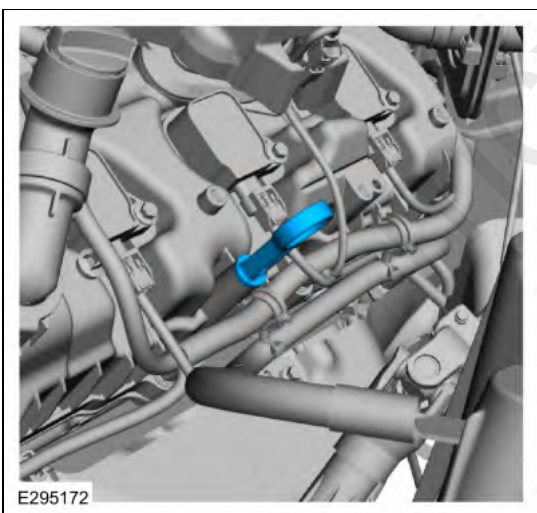


10.

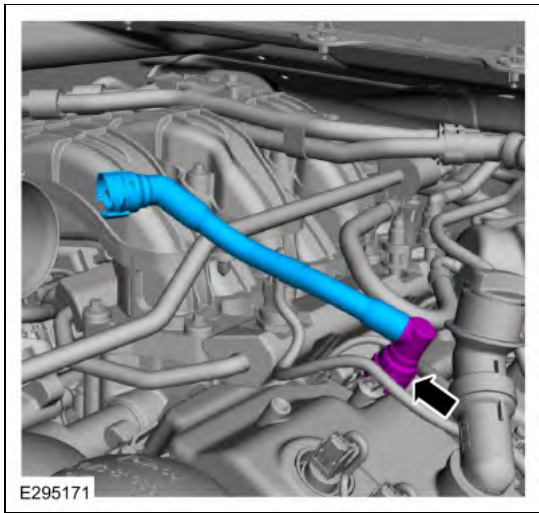
- Install the EVAP canister purge valve and attach the retainer.
- Connect the EVAP canister purge valve wiring harness electrical connector.
- Connect the EVAP canister purge valve quick release coupling.



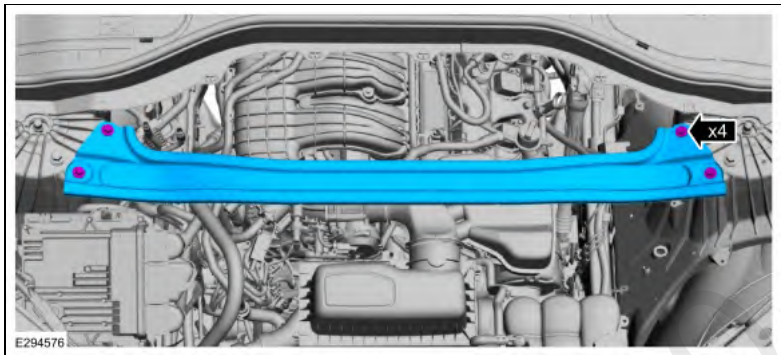
11. Install the following items:
 1. Install the high-pressure fuel pump.
Refer to: High-Pressure Fuel Pump (303-04C Fuel Charging and Controls - 3.3L Duratec-V6/3.3L Duratec-V6 4-cylinder Hybrid (BP), Removal and Installation).
 2. Install the LH ignition coil-on-plugs.
Refer to: Ignition Coil-On-Plug (303-07D Engine Ignition - 3.3L Duratec-V6 4-cylinder Hybrid (BP), Removal and Installation).
12. Install the oil level indicator.



13. Install the crankcase vent tube.



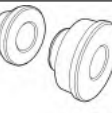
14. Install the air cleaner.
Refer to: Air Cleaner Outlet Pipe (303-12C Intake Air Distribution and Filtering - 3.3L Duratec-V6, Removal and Installation).
15. Install the suspension support bar and the bolts.
Torque: 22 lb.ft (30 Nm)



16. Pressurize the fuel system
Refer to: Fuel System Pressure Release (310-00D Fuel System - General Information - 3.3L Duratec-V6 Hybrid (BP), General Procedures).

Valve Cover RH

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

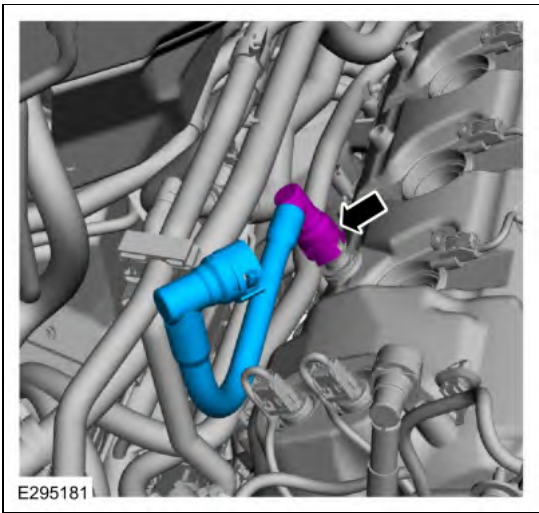
Name	Specification
Motorcraft® High Performance Engine RTV Silicone TA-357	WSE-M4G323-A6
Motorcraft® Silicone Gasket Remover ZC-30-A	-
Motorcraft® Metal Surface Prep Wipes ZC-31-B	-
Motorcraft® Metal Brake Parts Cleaner PM-4-A, PM-4-B	-

Removal

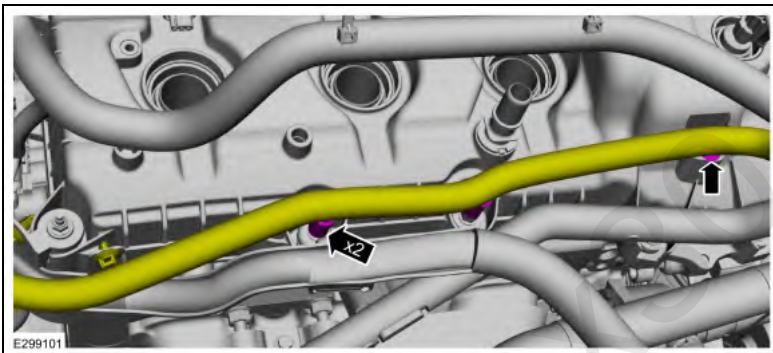
NOTICE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces that enters the oil passages, coolant passages or the oil pan, can cause engine failure.

NOTE: Installation of new spark plug seals or VCT seals is only required if seals are damaged.

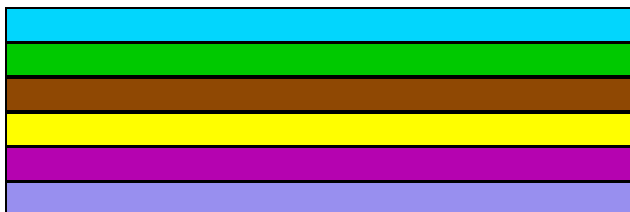
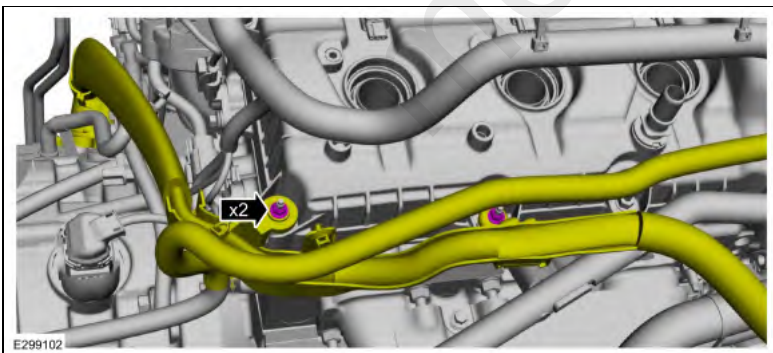
1. Remove the following items:
 1. Remove the EGR valve.
Refer to: Exhaust Gas Recirculation (EGR) Valve (303-08D Engine Emission Control - 3.3L Duratec-V6 â€“ Hybrid (BP), Removal and Installation).
 2. Remove the RH ignition coil-on-plugs.
Refer to: Ignition Coil-On-Plug (303-07D Engine Ignition - 3.3L Duratec-V6 â€“ Hybrid (BP), Removal and Installation).
2. Remove the PCV tube.



3. Detach the wiring harness retainers from the RH valve cover and stud bolts.



4. Remove the nuts and position aside the high-voltage wiring harness and retainers from the RH valve cover stud bolts.



5. Detach the wiring harness retainers.