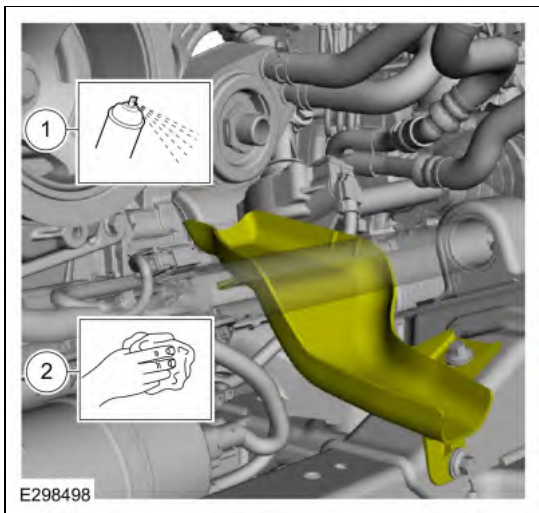
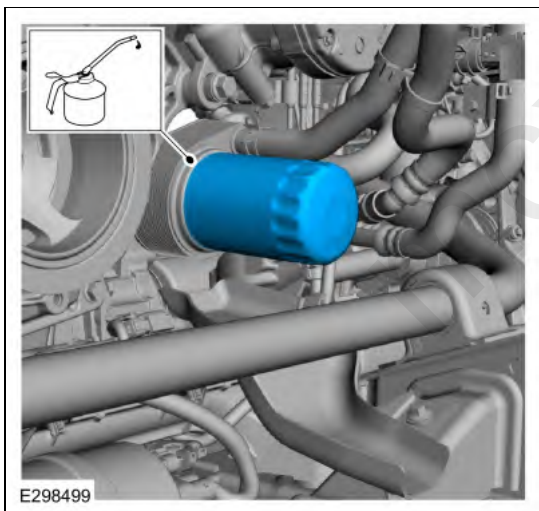


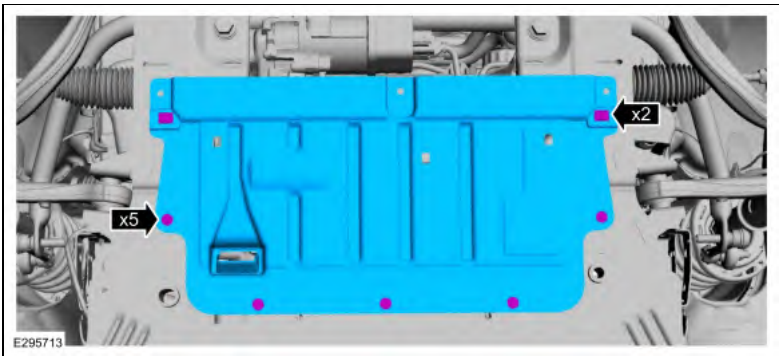


Filling

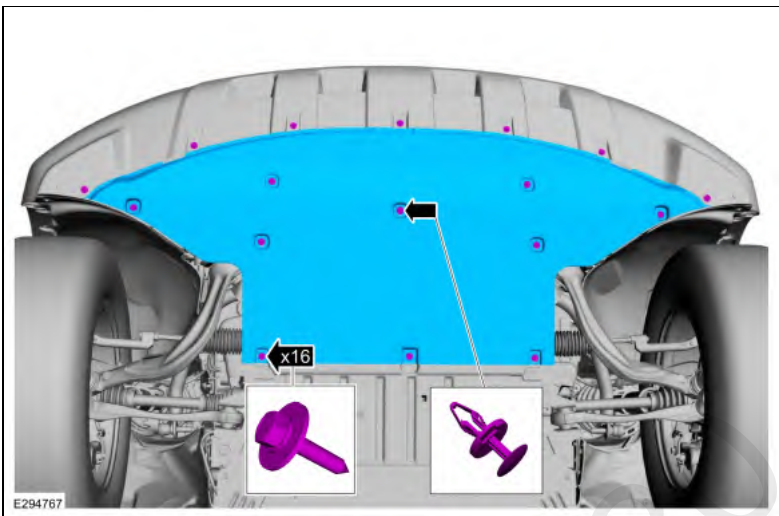
1.
 - Lubricate the oil filter seal with clean engine oil and install and tighten in 2 stages.
 - Stage 1: Install to initial gasket contact.
 - Stage 2: Tighten 3/4 to 1 turn.



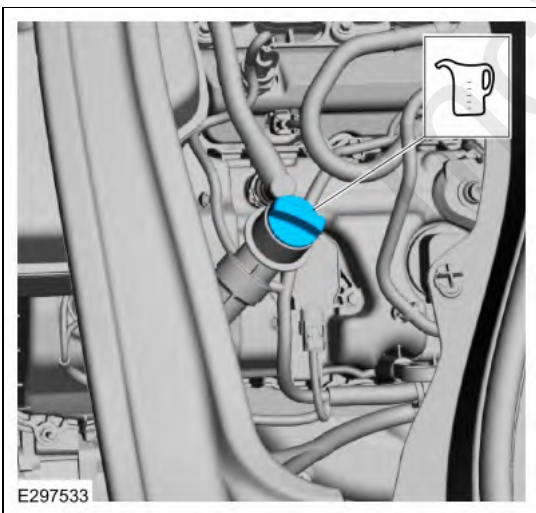
2. Install the rear underbody shield, bolts and the pin-type retainers.
Torque: 22 lb.in (2.5 Nm)



- 3.
- Install the underbody shield and the bolts.
Torque: 22 lb.in (2.5 Nm)
 - Install pin-type retainer.



4. Fill the engine with clean engine oil.
Refer to: Specifications (303-01D Engine - 3.3L Duratec-V6 â€” Hybrid (BP), Specifications).



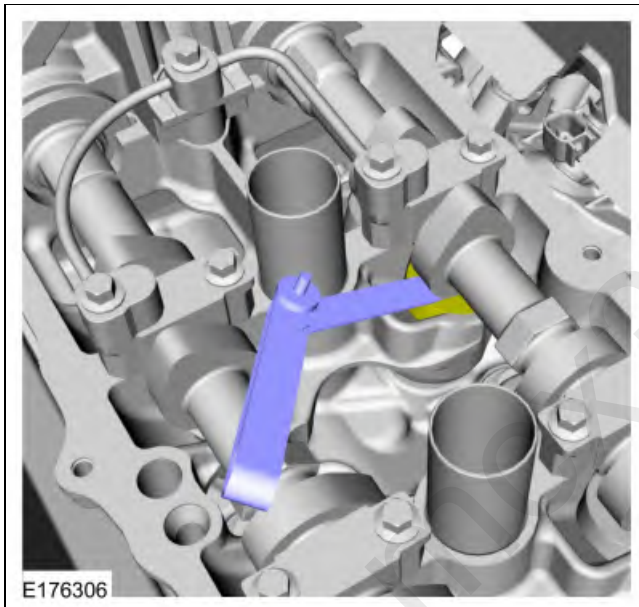
Valve Clearance Adjustment

Special Tool(s) / General Equipment

Feeler Gauge

Check

1. Remove the LH or RH valve cover.
Refer to: Valve Cover LH (303-01D Engine - 3.3L Duratec-V6 â€“ Hybrid (BP), Removal and Installation).
Refer to: Valve Cover RH (303-01D Engine - 3.3L Duratec-V6 â€“ Hybrid (BP), Removal and Installation).
2. **NOTE:** Engine must be at room temperature before measuring. The valve clearance must be measured with the camshaft at base circle. The engine will have to be rotated with the crankshaft pulley bolt to bring each valve to base circle.
 - Measure the clearance of each valve and record its location. A midrange clearance is the most desirable:
Use the General Equipment: Feeler Gauge
 - Intake: 0.15-0.25 mm (0.006-0.010 in)
 - Exhaust: 0.36-0.46 mm (0.01-0.02 in)



3. **NOTE:** The number on the valve tappet reflects the thickness of the valve tappet. For example, a tappet with the number 3.310 has the thickness of 3.31 mm (0.13 in).

If any of the valve clearances are out of specification, select new tappets using this formula: tappet thickness = measured clearance + the base tappet thickness - most desirable thickness. Select the tappets and mark the installation location.

Adjustment

1. **NOTE:** The following step is only necessary if adjustment is required.

Remove the camshafts.

Refer to: Camshafts (303-01D Engine - 3.3L Duratec-V6 â€“ Hybrid (BP), Removal and Installation).

