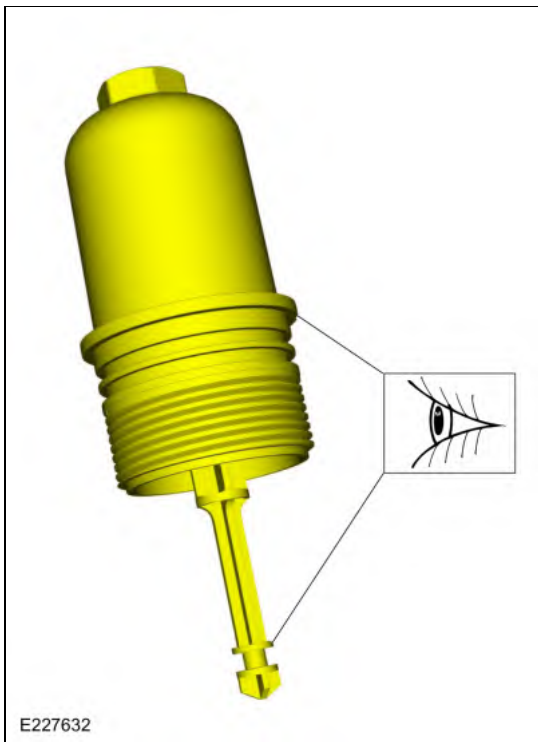




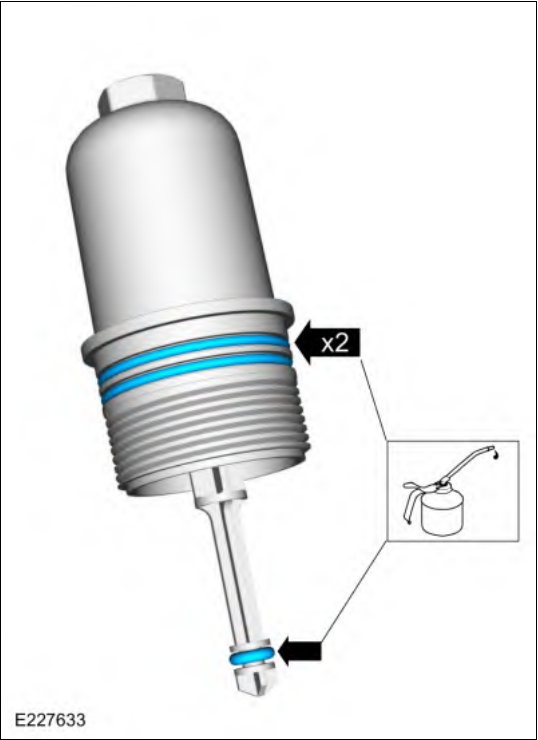
3.

- **NOTE:** Failure to install new oil filter housing-to-engine front cover seals may result in oil leakage.

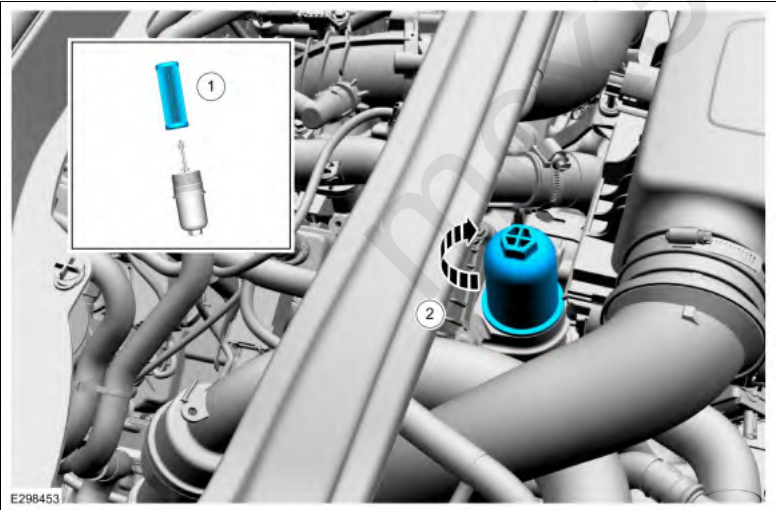
Install new oil filter housing-to-engine front cover seals and lubricate with clean engine oil.

- **NOTE:** Failure to install a new oil filter housing stem-to-oil reservoir drain port seal will result with the oil flowing through the reservoir drain port and a loss of engine oil pressure.

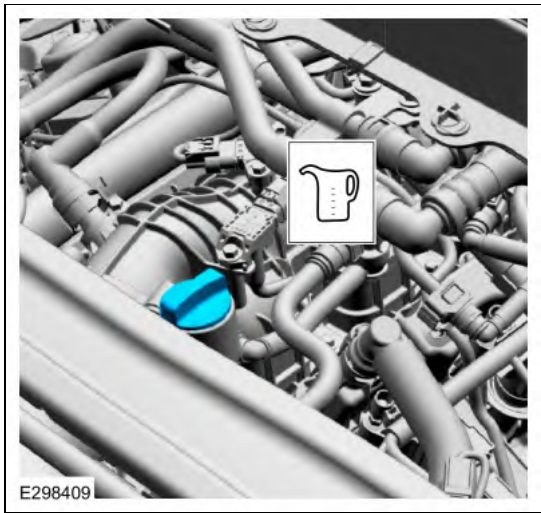
Install a new oil filter housing stem-to-oil reservoir drain port seal and lubricate with clean engine oil.



- 4.
- 1. Install a new oil filter element.
 - 2. Install the oil filter housing.
Torque: 18 lb.ft (24 Nm)



5. Fill the engine with clean engine oil.
Refer to: Specifications (303-01B Engine - 3.0L EcoBoost, Specifications).



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Removal and Installation

Camshaft LH

Special Tool(s) / General Equipment



Removal

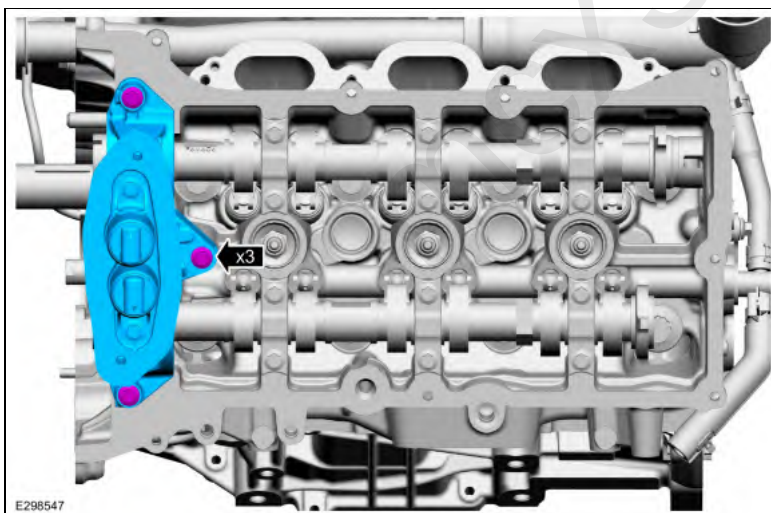
NOTICE: During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces, that enters the oil passages, coolant passages or the oil pan, can cause engine failure.

NOTE: If the RH camshafts are being serviced at the same time as the LH camshafts, remove the RH camshafts first. Refer to the procedure in this section.

NOTE: If the components are to be reinstalled, they must be installed in their original locations.

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. Release the fuel system pressure.
Refer to: Fuel System Pressure Release (310-00B Fuel System - General Information - 3.0L EcoBoost, General Procedures).
3. Disconnect the battery ground cable.
Refer to: Battery Disconnect and Connect (414-01 Battery, Mounting and Cables, General Procedures).
4. Remove the following items:
 1. Refer to: Valve Cover RH (303-01B Engine - 3.0L EcoBoost, Removal and Installation).
 2. Refer to: Valve Cover LH (303-01B Engine - 3.0L EcoBoost, Removal and Installation).
5. Remove the LH VCT units.
Refer to: Variable Camshaft Timing (VCT) Unit (303-01B Engine - 3.0L EcoBoost, Removal and Installation).
6. **NOTICE:** The front camshaft bearing mega cap must be removed first and then the remaining camshaft bearing caps. Failure to follow this direction may result in damage to the engine.

Remove the bolts and the front camshaft bearing mega cap.



7. Remove the bolts and the camshaft bearing caps.