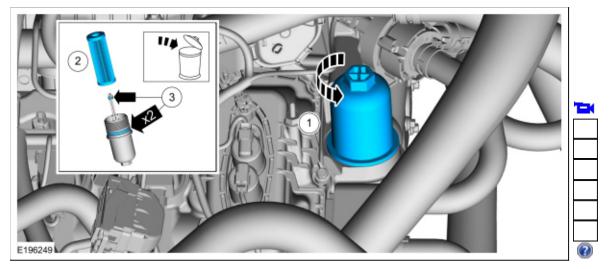
# **Engine Oil Draining and Filling**

### Special Tool(s) / General Equipment

## **Oil Drain Equipment**

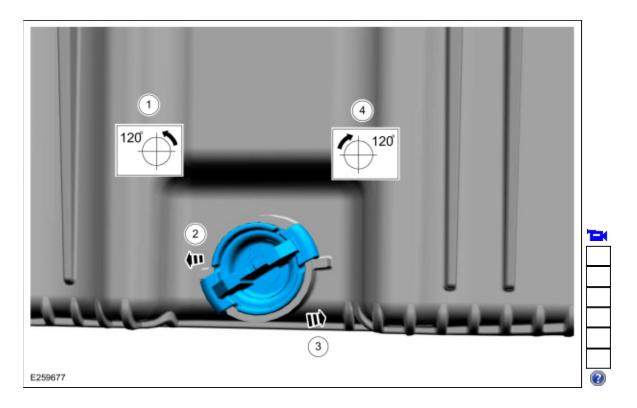
### Draining

- With the vehicle in NEUTRAL, position it on a hoist. Refer to: <u>Jacking and Lifting - Overview</u> (100-02 Jacking and Lifting, Description and Operation).
- 2. **NOTE:** Use a shop towel when removing the oil filter housing to prevent oil from spilling on the engine or accessory components.
  - 1. Loosen the oil filter housing and allow the oil to drain out of the housing and down into the engine.
  - 2. Remove the oil filter housing and discard the oil filter element.
  - 3. Remove and discard the O-ring seals.



- 3. NOTE: The drain plug should be removed and installed by hand, do not use tools.
  - 1. Turn the oil drain plug by hand counterclockwise 120 degrees.
  - Use the General Equipment: Oil Drain Equipment
  - 2. Pull the oil drain plug out of the oil pan.
  - 3. After the oil has drained, push the oil drain plug into the oil pan.
  - 4. NOTICE: Overtightening will damage the oil drain plug and possibly the oil pan.

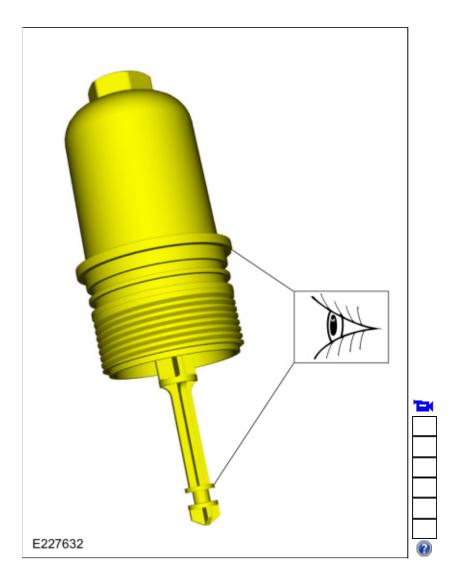
Turn the oil drain plug by hand clockwise 120 degrees.



# Filling

1. **NOTE:** If the filter housing stem is damaged or missing the oil will flow through the reservoir drain port and a **loss** of engine oil pressure will occur.

Inspect the oil filter housing and stem for damage including cracks or separation of the stem from the housing. If damaged, a new oil filter housing assembly must be installed.



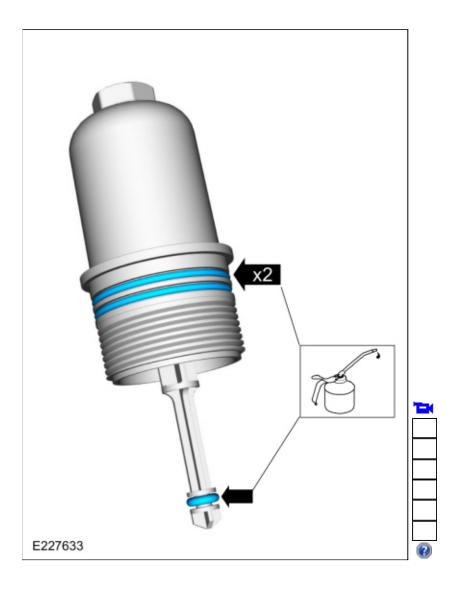
2.

• 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.

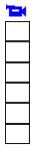
• **NOTE:** Failure to install a new oil filter housing stem-to-oil reservoir drain port seal will result with the oil flowing through the reservoir drain port and a **loss** of engine oil pressure.

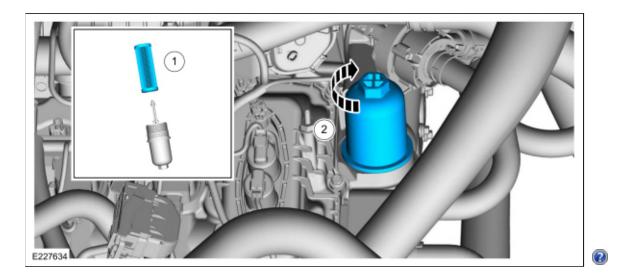
Install a new oil filter housing stem-to-oil reservoir drain port seal and lubricate with clean engine oil.



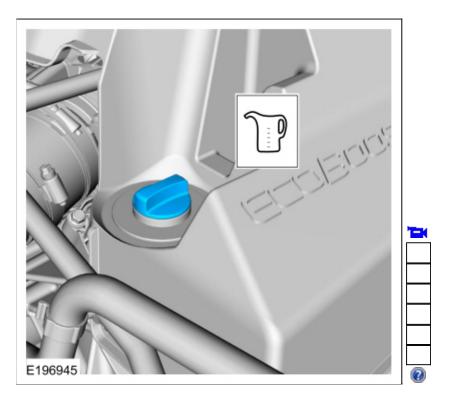
3.

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





 Fill the engine with clean engine oil. Refer to: <u>Specifications</u> (303-01A Engine - 2.7L EcoBoost (238kW/324PS), Specifications).



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