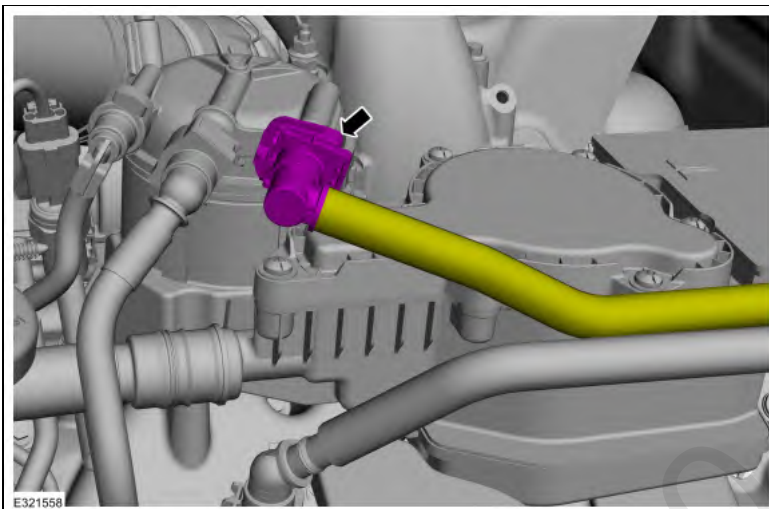


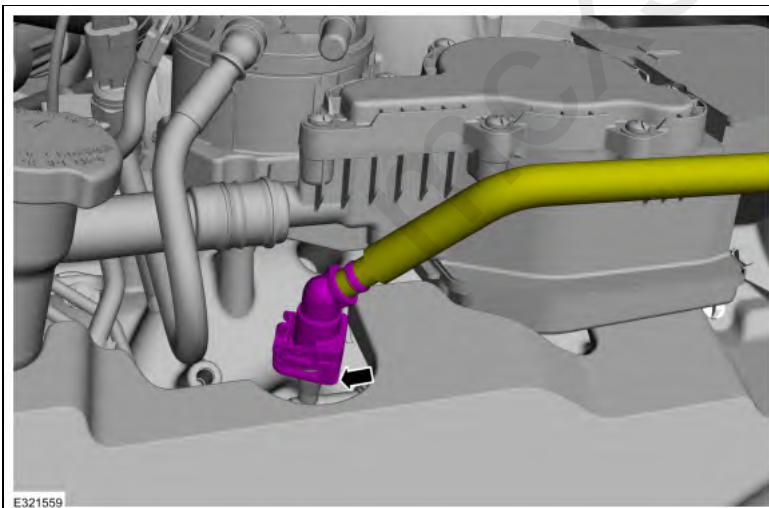
Crankcase Vent Oil Separator

Removal

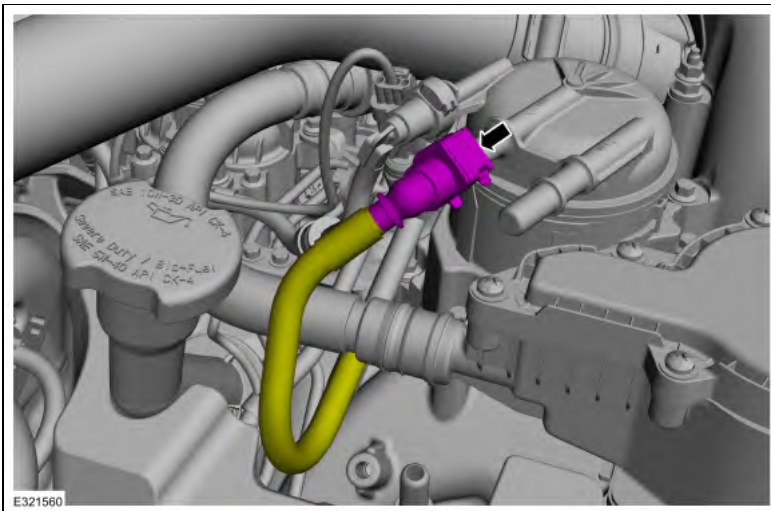
1. Release the fuel system pressure.
Refer to: Fuel System Pressure Release (310-00B Fuel System - General Information - 6.7L Power Stroke Diesel, General Procedures).
2. Disconnect the battery.
Refer to: Battery Disconnect and Connect (414-01 Battery, Mounting and Cables, General Procedures).
3. Remove the Charge Air Cooler (CAC) intake pipe.
Refer to: Charge Air Cooler (CAC) Intake Pipe (303-12B Intake Air Distribution and Filtering - 6.7L Power Stroke Diesel, Removal and Installation).
4. Disconnect the fuel filter inlet tube.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information - 6.7L Power Stroke Diesel) .



5. Disconnect the fuel return tube quick connect coupling from the fuel injection pump return tube.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information - 6.7L Power Stroke Diesel) .

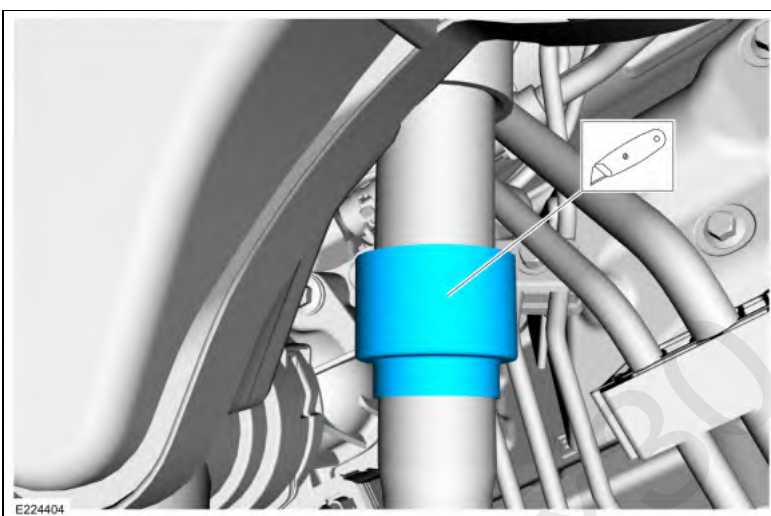


6. Remove the fuel filter outlet tube.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information - 6.7L Power Stroke Diesel) .

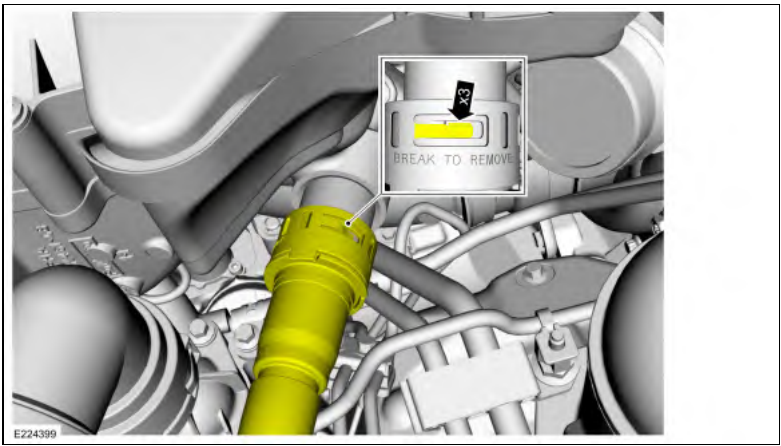


7. **NOTICE:** The crankcase vent oil separator must be replaced whenever the crankcase vent oil separator outlet hose is disconnected from the lower intake manifold.

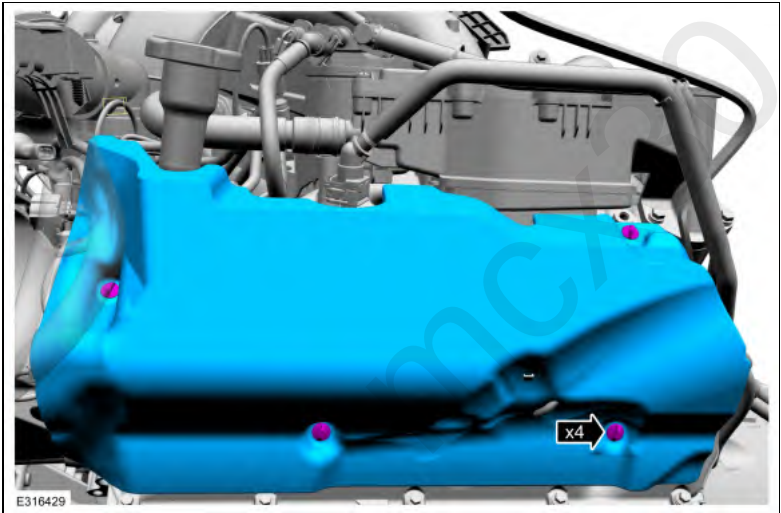
Cut and remove the rubber sleeve cover.



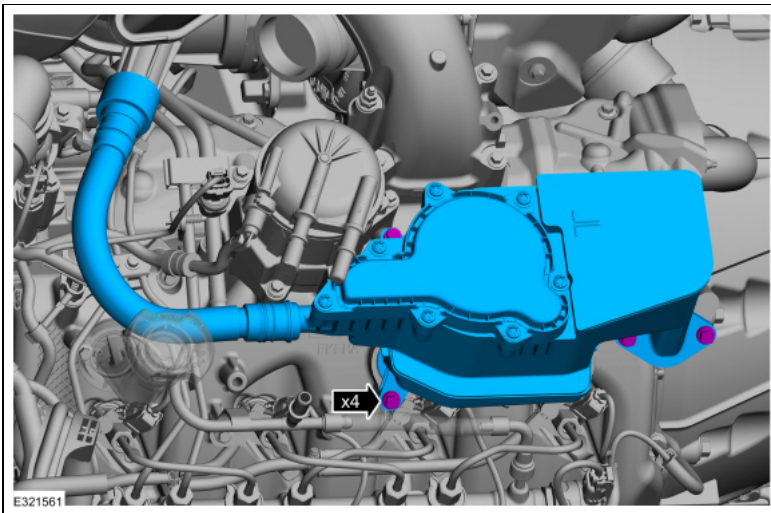
- 8.
- Release the crankcase vent oil separator outlet hose retainer tabs, break the retaining tabs as needed.
 - Disconnect the crankcase vent oil separator outlet hose from the lower intake manifold.



9. **NOTE:** It may be necessary to unthread the engine sound shield retainers from the engine.
Remove the left engine sound shield retainers, then remove the sound shield.



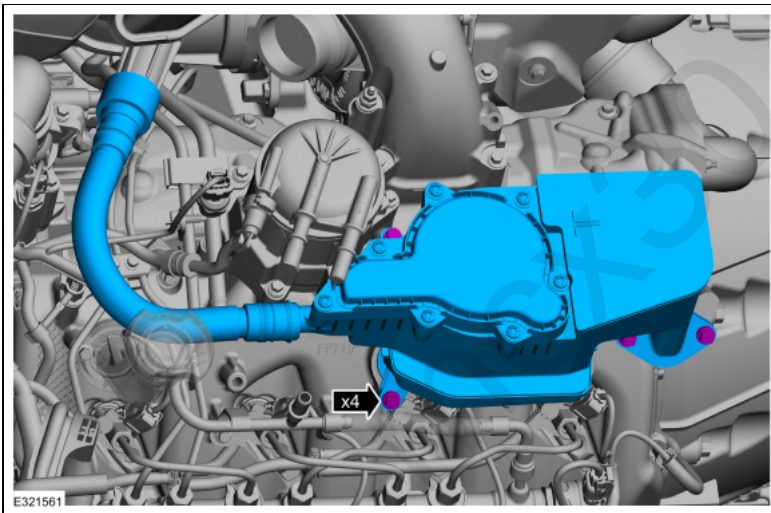
10. **NOTE:** Place a shop towel under the oil separator to catch any oil that may leak from the oil separator when removed.
Remove the crankcase vent oil separator bolts and then remove the crankcase vent oil separator.



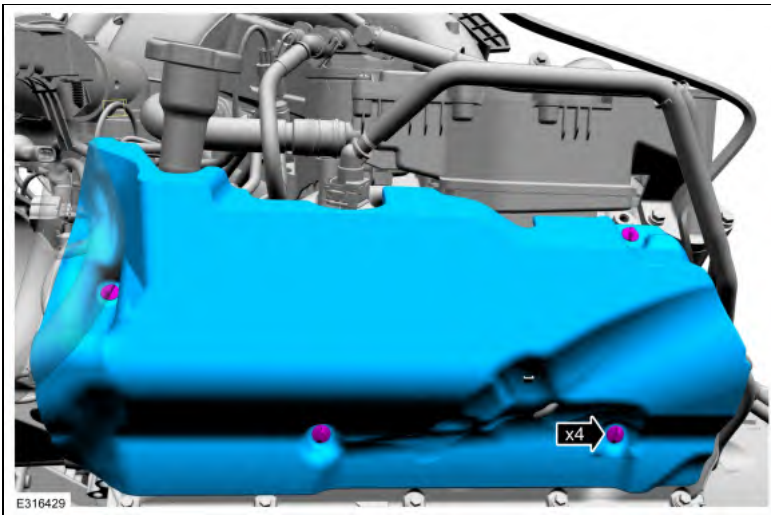
Installation

NOTICE: Do not lubricate the O-ring seal or gasket prior to installation.

1. Install the new crankcase vent oil separator, then install and tighten the crankcase vent oil separator bolts in the sequence shown.
Torque:
 Stage 1: 89 lb.in (10 Nm)
 Stage 2: 45Å°

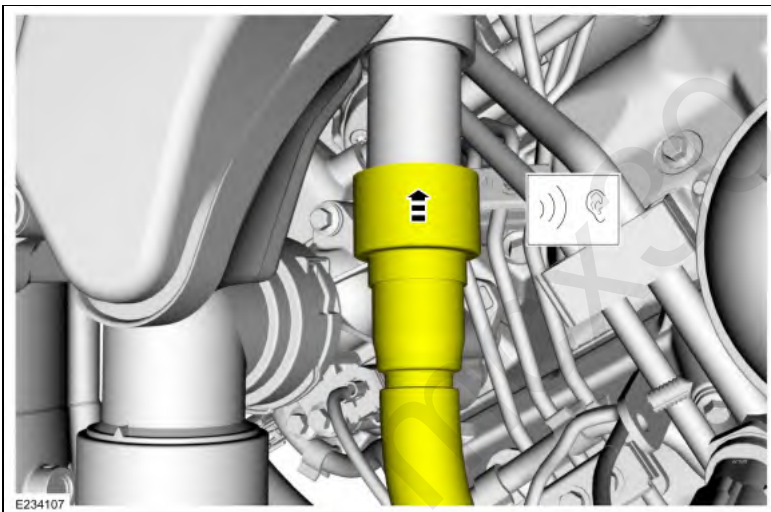


2. Install the left engine sound shield, then install the sound shield retainers.

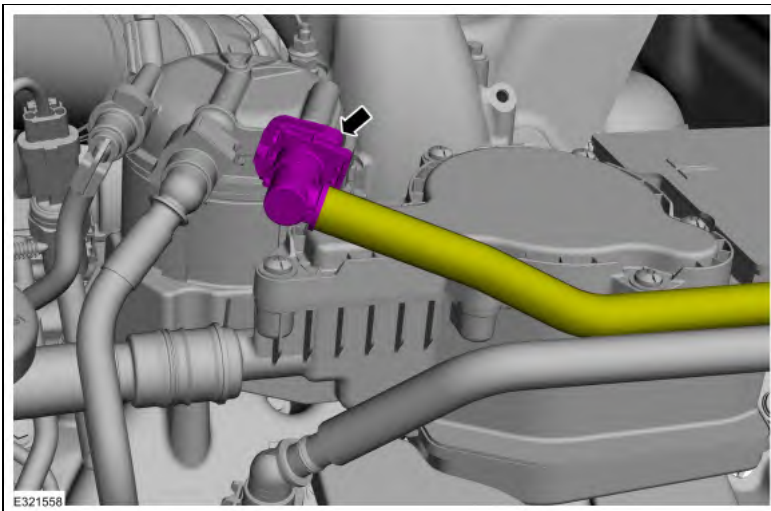


3. **NOTE:** The quick connections must be installed onto the tube end along the centerline. The assembly is complete when the tube end bottoms out on the connector with an audible click-snap feel. Correct assembly should be verified by pulling back on the quick connection end.

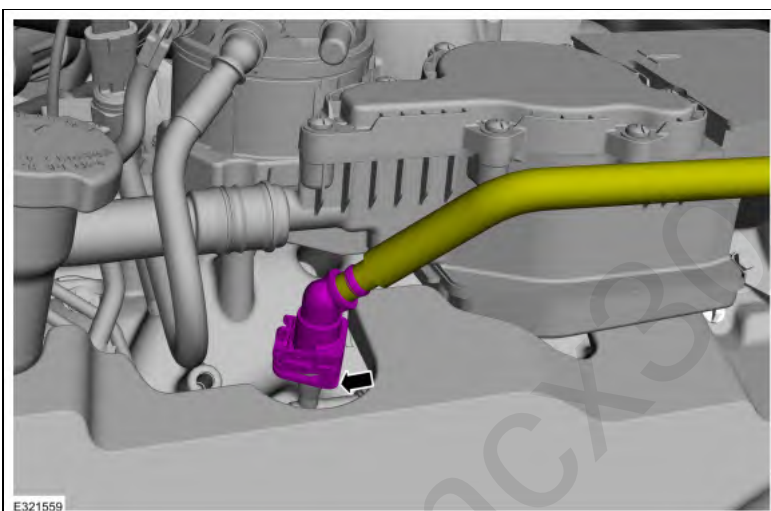
Connect the crankcase vent oil separator outlet hose to the intake manifold.



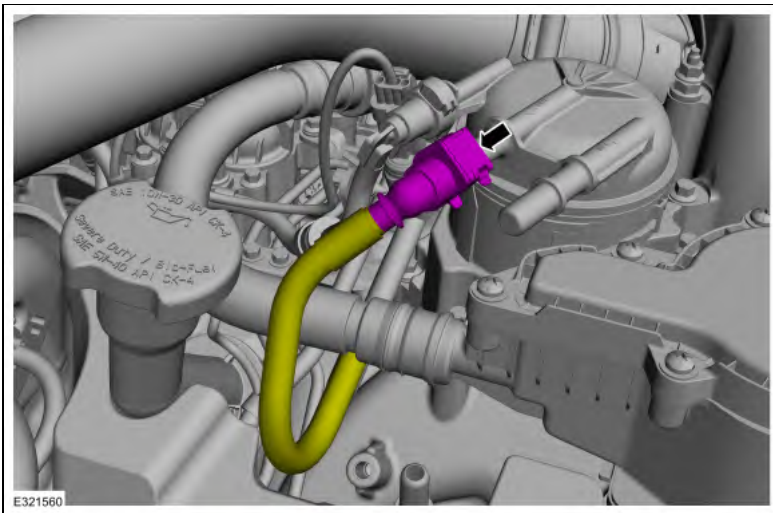
4. Connect the fuel filter inlet tube.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information - 6.7L Power Stroke Diesel) .



5. Connect the fuel return tube quick connect coupling to the fuel injection pump return tube.



6. Install the fuel filter outlet tube.
Refer to: Quick Release Coupling (310-00 Fuel System - General Information - 6.7L Power Stroke Diesel) .



7. Install the Charge Air Cooler (CAC) intake pipe.
Refer to: Charge Air Cooler (CAC) Intake Pipe (303-12B Intake Air Distribution and Filtering - 6.7L Power Stroke Diesel, Removal and Installation).
8. Connect the battery.
Refer to: Battery Disconnect and Connect (414-01 Battery, Mounting and Cables, General Procedures).
9. Bleed the fuel system.
Refer to: Fuel System Bleeding (310-00B Fuel System - General Information - 6.7L Power Stroke Diesel, General Procedures).