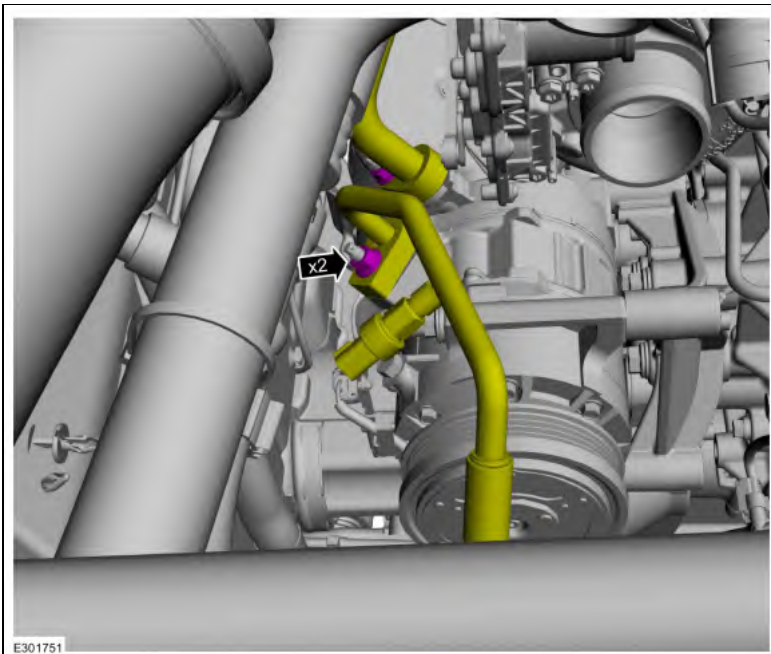
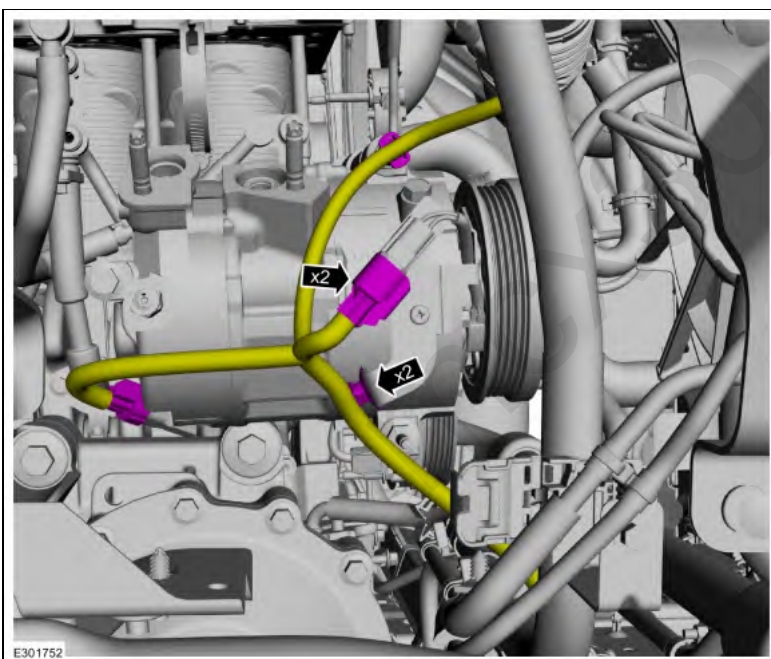
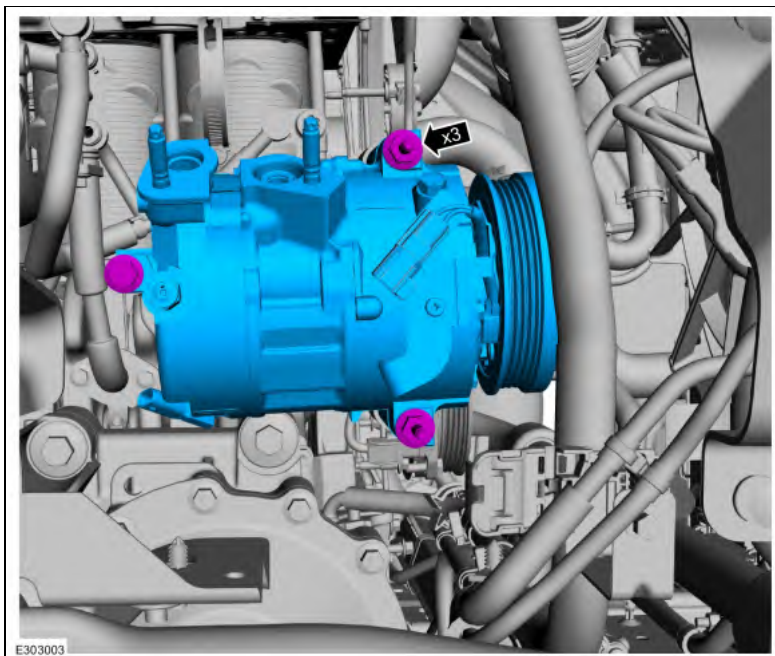




9. Disconnect the electrical connectors and detach wiring harness routing clips.



10. Remove the retainers and the A/C compressor.
Torque: 18 lb.ft (25 Nm)



Installation

1.

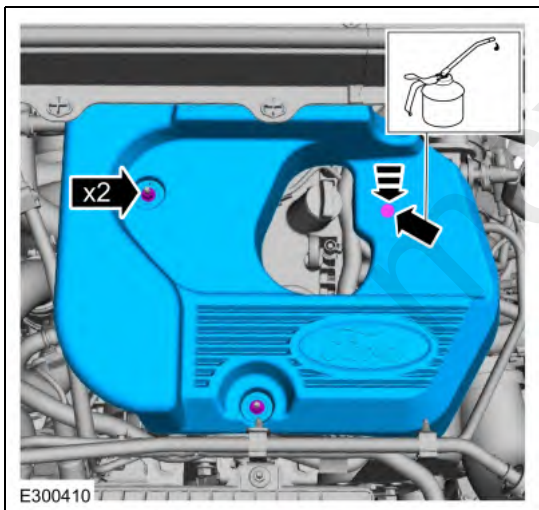
- NOTE:** Lubricating the grommets with silicone grease will aid in the installation of the engine appearance cover, and any future removal and installation of the cover.

Lubricate each grommet with silicone grease.

Material: Motorcraft® Silicone Brake Caliper Grease and Dielectric Compound / XG-3-A (ESE-M1C171-A)

- Position the engine appearance cover onto engine with the grommet aligned with the stud.
- Press down on the engine appearance cover at the grommet location to attach the grommet onto the stud and install the nuts.

Torque: 44 lb.in (5 Nm)



2. To install, reverse the removal procedure.

- NOTICE:** Only use the specified material to lubricate the seals.

Install and lubricate new O-ring seals. Refer to the appropriate Specifications in Group 412.

- Lubricate the refrigerant system with the correct amount of clean PAG oil. Refer to the appropriate Refrigerant Oil Adding procedure in Group 412.

Air Conditioning (A/C) Compressor - 3.0L EcoBoost

Removal

NOTICE: If installing a new A/C compressor due to an internal failure of the old unit, carry out the following procedures to remove contamination from the A/C system. Failure to remove contamination from the A/C system, if present, will result in poor A/C performance and/or damage to the new A/C compressor and other components.

- If A/C flushing equipment is available, carry out flushing of the A/C system prior to installing a new A/C compressor.
- If A/C flushing equipment is not available, replace all contaminated components after a new A/C compressor has been installed.
- Install a new Thermostatic Expansion Valve (TXV) as directed by the A/C flushing.
- Install a new receiver drier element as directed by the A/C flushing.

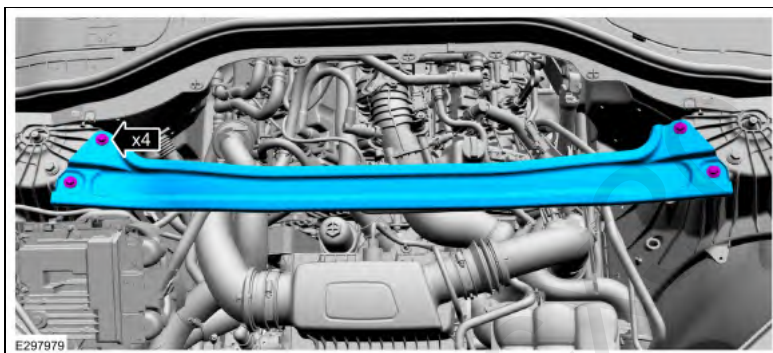
NOTICE: During the removal of components, cap, tape or otherwise appropriately protect all openings to prevent the ingress of dirt or other contamination. Remove protective materials prior to installation.

NOTE: Installation of a new receiver drier element is not required when repairing the A/C system except when there is physical evidence of system contamination from a failed A/C compressor or damage to the receiver drier element.

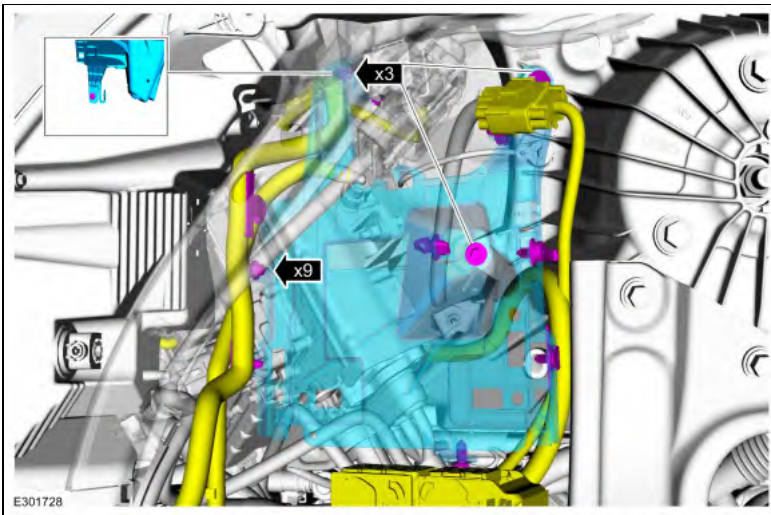
NOTE: A new A/C compressor may come equipped with an A/C clutch disc and hub, A/C compressor pulley and A/C clutch field coil already installed. If these components are not pre-installed, it will be necessary to transfer these parts from the old A/C compressor to the new compressor prior to installation of the A/C compressor if suitable for reuse.

NOTE: Removal steps in this procedure may contain installation details.

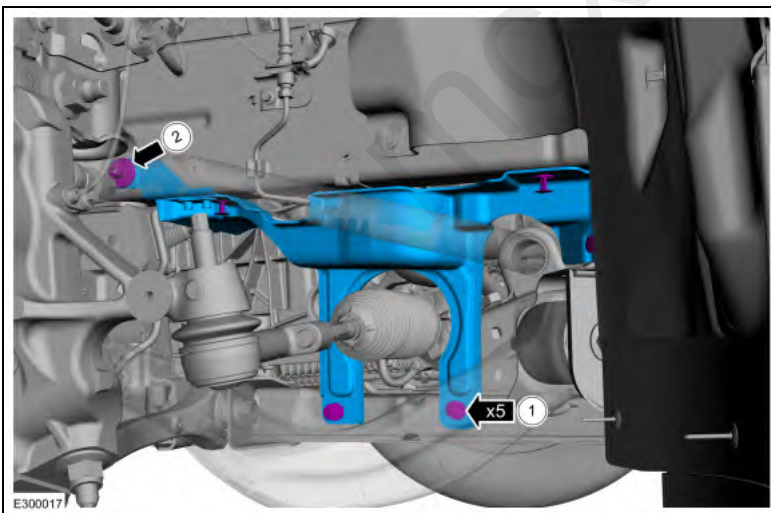
1. Recover the refrigerant. Refer to the appropriate Recovery procedure in Group 412.
2. Remove the bolts and the suspension support bar.
Torque: 22 lb.ft (30 Nm)



3. Remove the PCM.
Refer to: Powertrain Control Module (PCM) (303-14B Electronic Engine Controls - 3.0L EcoBoost, Removal and Installation).
4. Disconnect the harness retainers. Remove the bolts and the PCM mounting bracket.
Torque: 55 lb.in (6.2 Nm)



5. Remove the RH upper air cleaner outlet pipe.
Refer to: Air Cleaner Outlet Pipe RH (303-12B Intake Air Distribution and Filtering - 3.0L EcoBoost, Removal and Installation).
6. Remove the RH CAC intake pipe.
Refer to: Charge Air Cooler (CAC) Intake Pipe (303-12B Intake Air Distribution and Filtering - 3.0L EcoBoost, Removal and Installation).
7. Remove the accessory drive belt.
Refer to: Accessory Drive Belt (303-05B Accessory Drive - 3.0L EcoBoost, Removal and Installation).
8.
 1. Detach the clips.
 2. Remove the nut.
Torque: 25 lb.in (2.8 Nm)



9.
 - Disconnect the A/C wiring harness electrical connector.
 - Detach the wiring harness retainer.
 - Remove the lower bolt from the A/C compressor.
Torque: 18 lb.ft (25 Nm)