

Air Conditioning (A/C) Compressor - 6.2L V8

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.

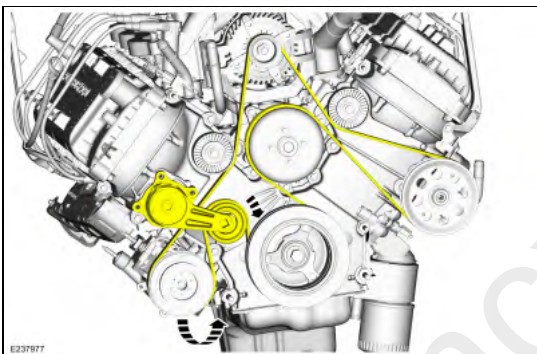
NOTICE: During the removal of components, cap, tape or otherwise appropriately protect all openings to prevent the ingress of dirt or other contamination. Remove protective materials prior to installation.

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.

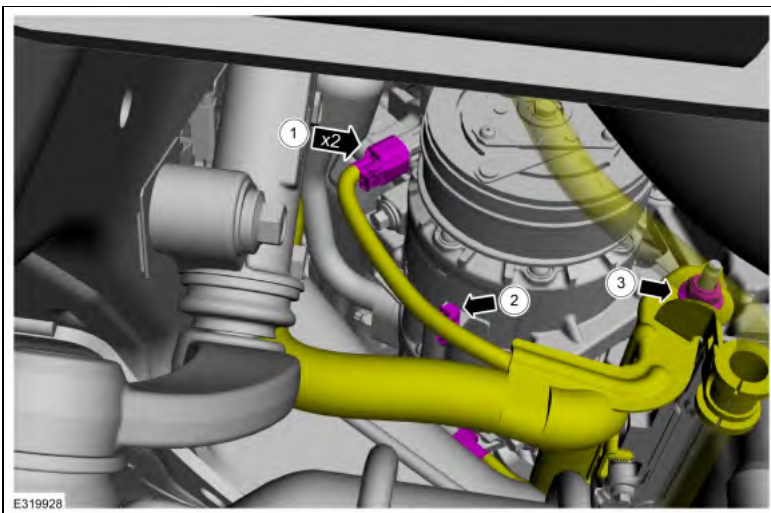
NOTE: A new A/C compressor may come equipped with an A/C clutch disc and hub, A/C compressor pulley and A/C clutch field coil already installed. If these components are not pre-installed, it will be necessary to transfer these parts from the old A/C compressor to the new compressor prior to installation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

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

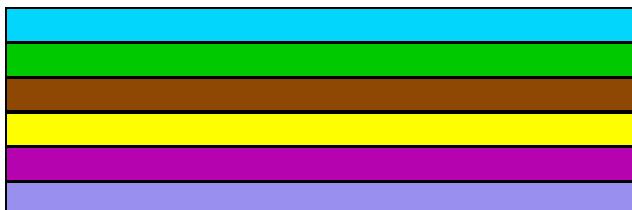
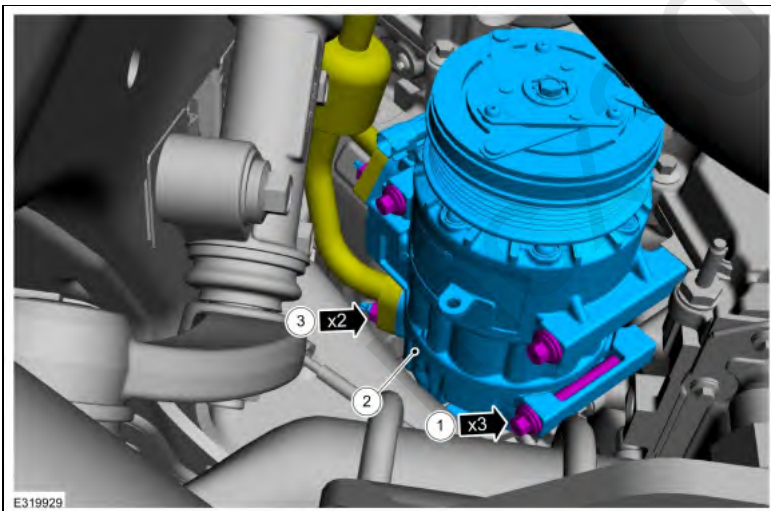
1. Recover the refrigerant. Refer to the appropriate Recovery procedure in Group 412.
2. With the vehicle in NEUTRAL, position it on a hoist.
Refer to: Jacking and Lifting - Overview (100-02 Jacking and Lifting, Description and Operation).
3. Rotate the A/C compressor belt tensioner clockwise and position the A/C compressor belt off the A/C compressor pulley.



4.
 1. Disconnect the electrical connectors.
 2. Detach the wiring harness routing retainer.
 3. Remove the nut and position aside the coolant tube and the engine wire harness.
Torque: 30 lb.ft (40 Nm)

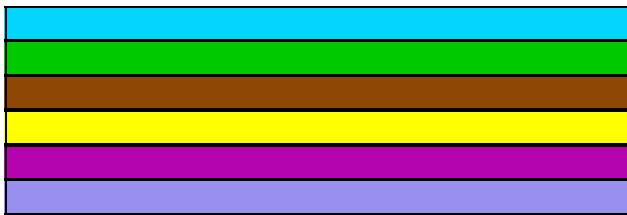
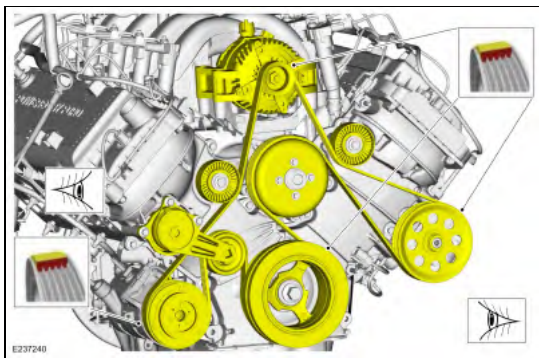


5.
 1. Remove the A/C compressor mounting bolts.
Torque: 18 lb.ft (25 Nm)
 2. Position the A/C compressor forward to access the A/C lines.
 3. Remove the nuts and disconnect the A/C lines, remove the A/C compressor.
Torque: 159 lb.in (18 Nm)
 - Make sure to cover any open ports to prevent debris from entering the system.



Installation

1. To install, reverse the removal procedure.
2. After installation, make sure the accessory drive belt is correctly seated on all the pulleys.



3. **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.

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

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