

Air Conditioning (A/C) Compressor - 5.0L 32V Ti-VCT

Base Part Number: Base Part Number: 19D629

Removal

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

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.

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.

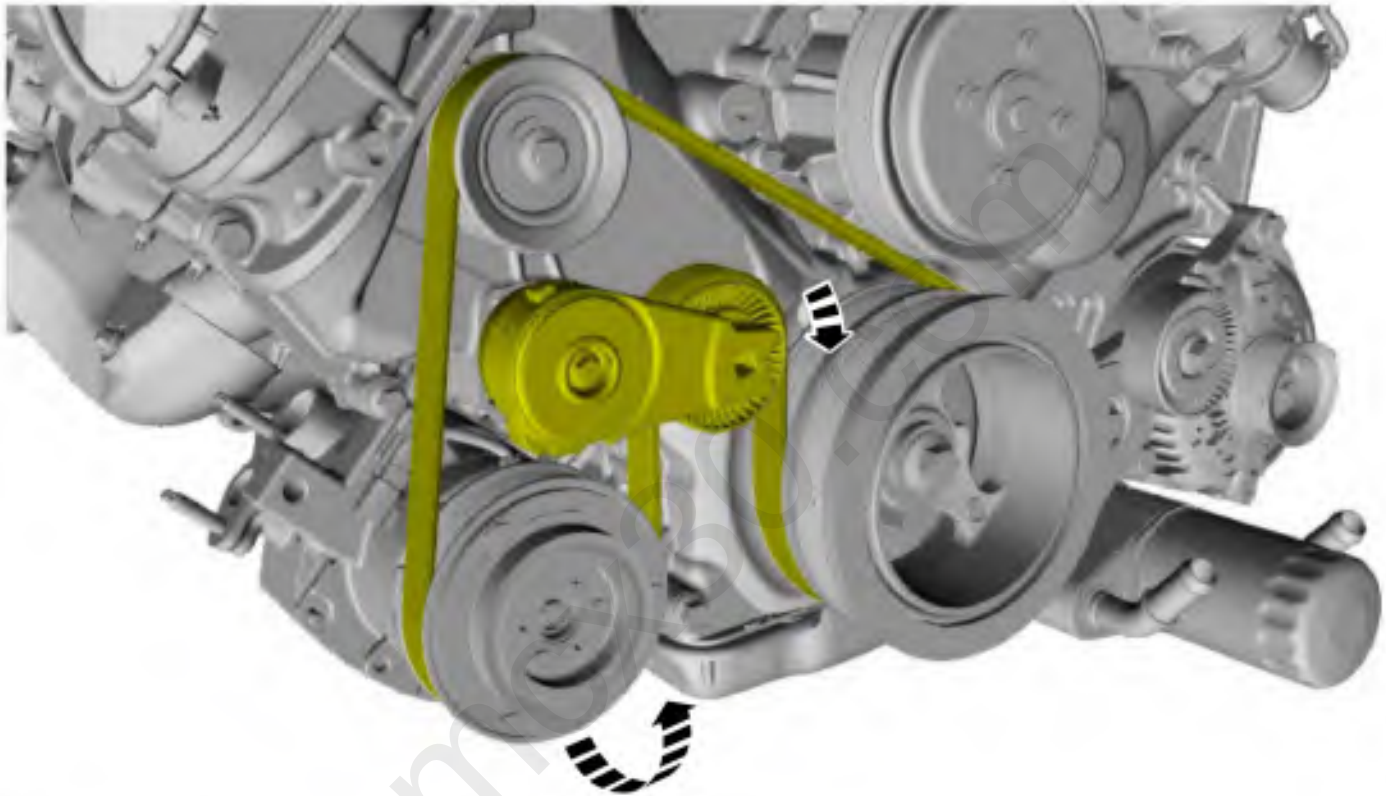
2. Remove the RHF wheel and tire.

Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).

3. Remove the RHF fender splash shield.

Refer to: [Fender Splash Shield](#) (501-02 Front End Body Panels, Removal and Installation).

4. Rotate the A/C compressor belt tensioner clockwise and position the A/C compressor belt off the A/C compressor pulley.



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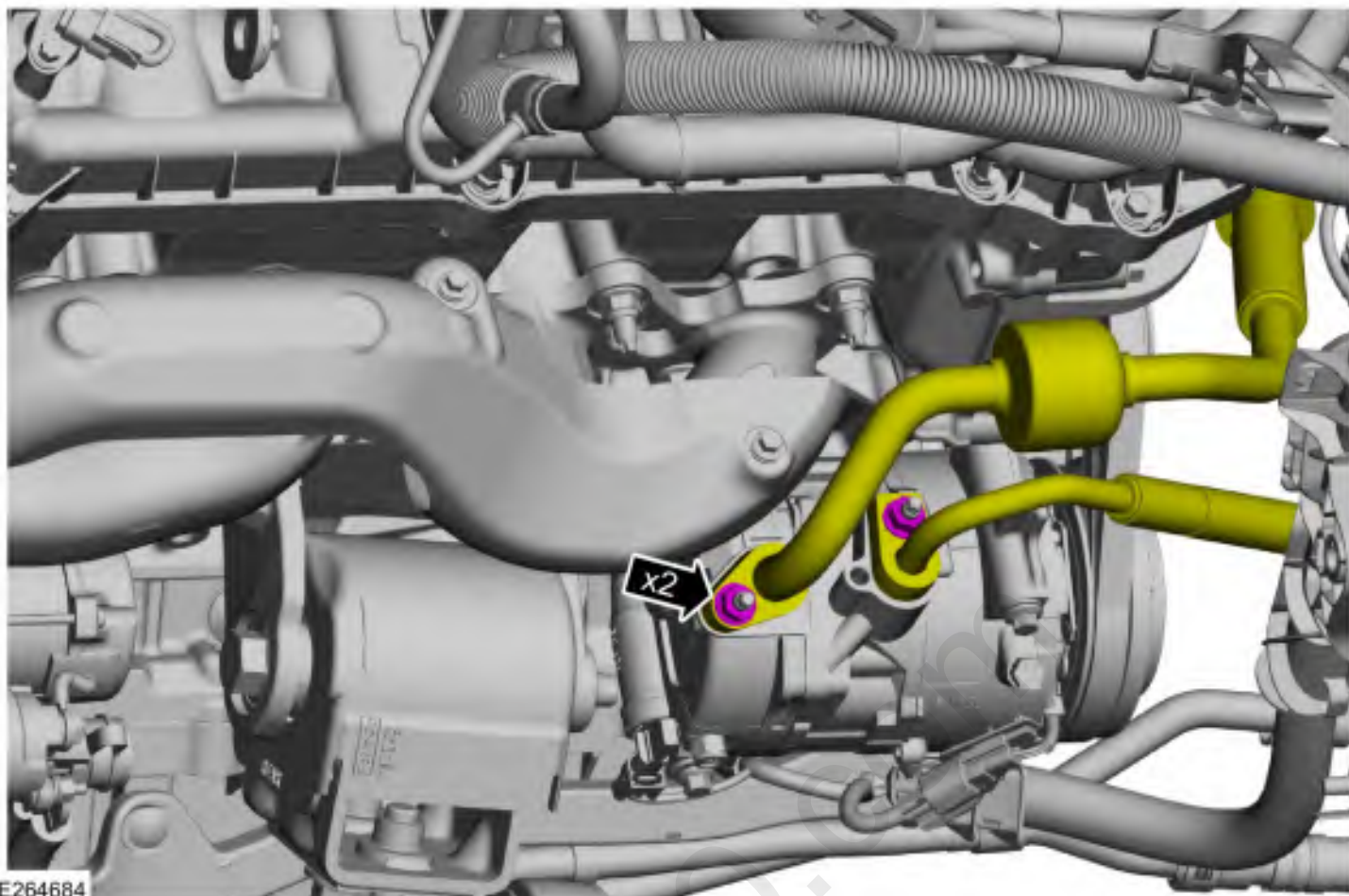
5. **NOTE:** *Frame removed for clarity.*

NOTE: *Discard the O-ring seals and gaskets.*

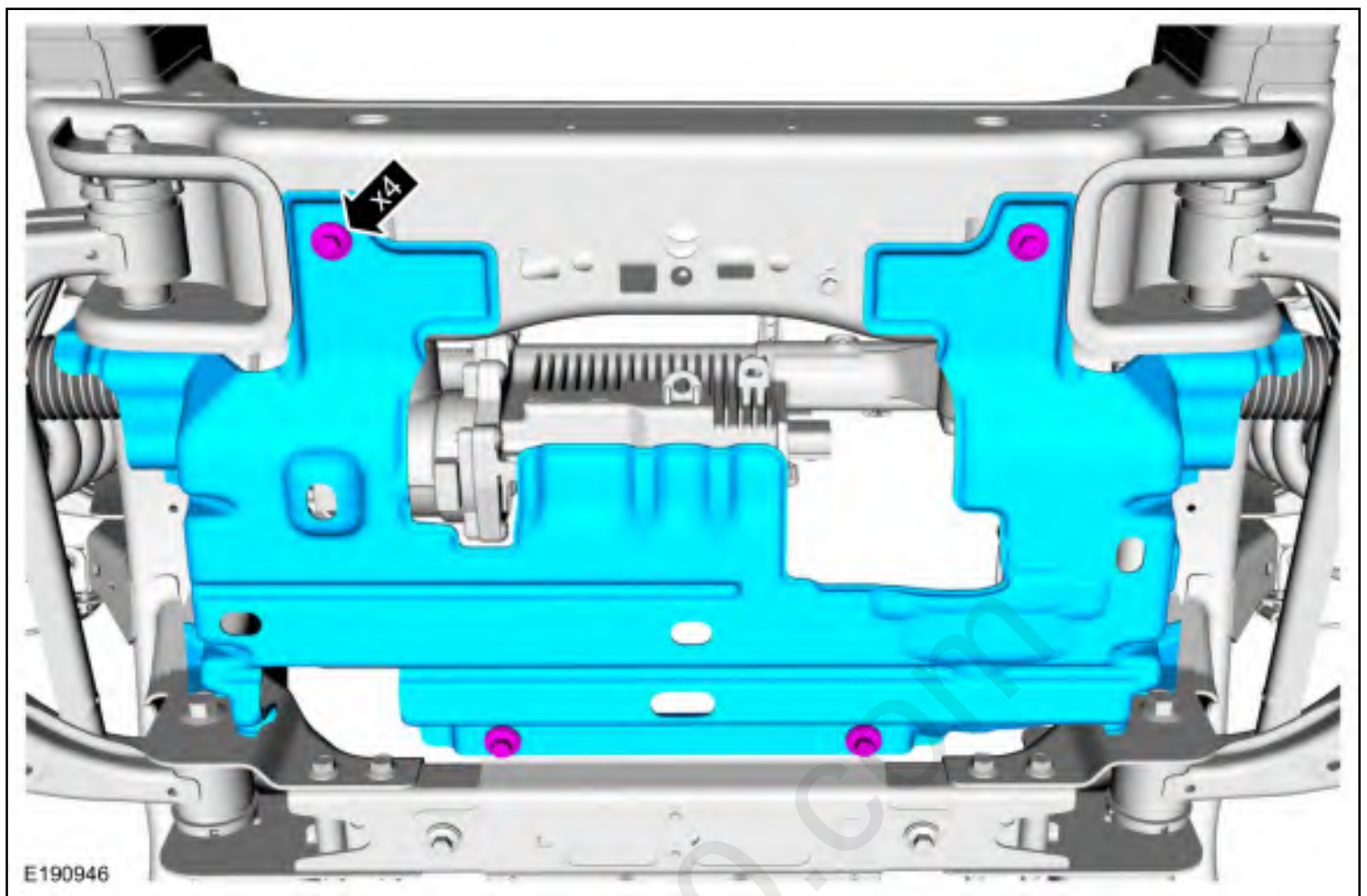
Remove the nuts and disconnect the A/C compressor inlet and outlet lines.

- Make sure to cover any open ports to prevent debris from entering the system.

Torque: 133 lb.in (15 Nm)



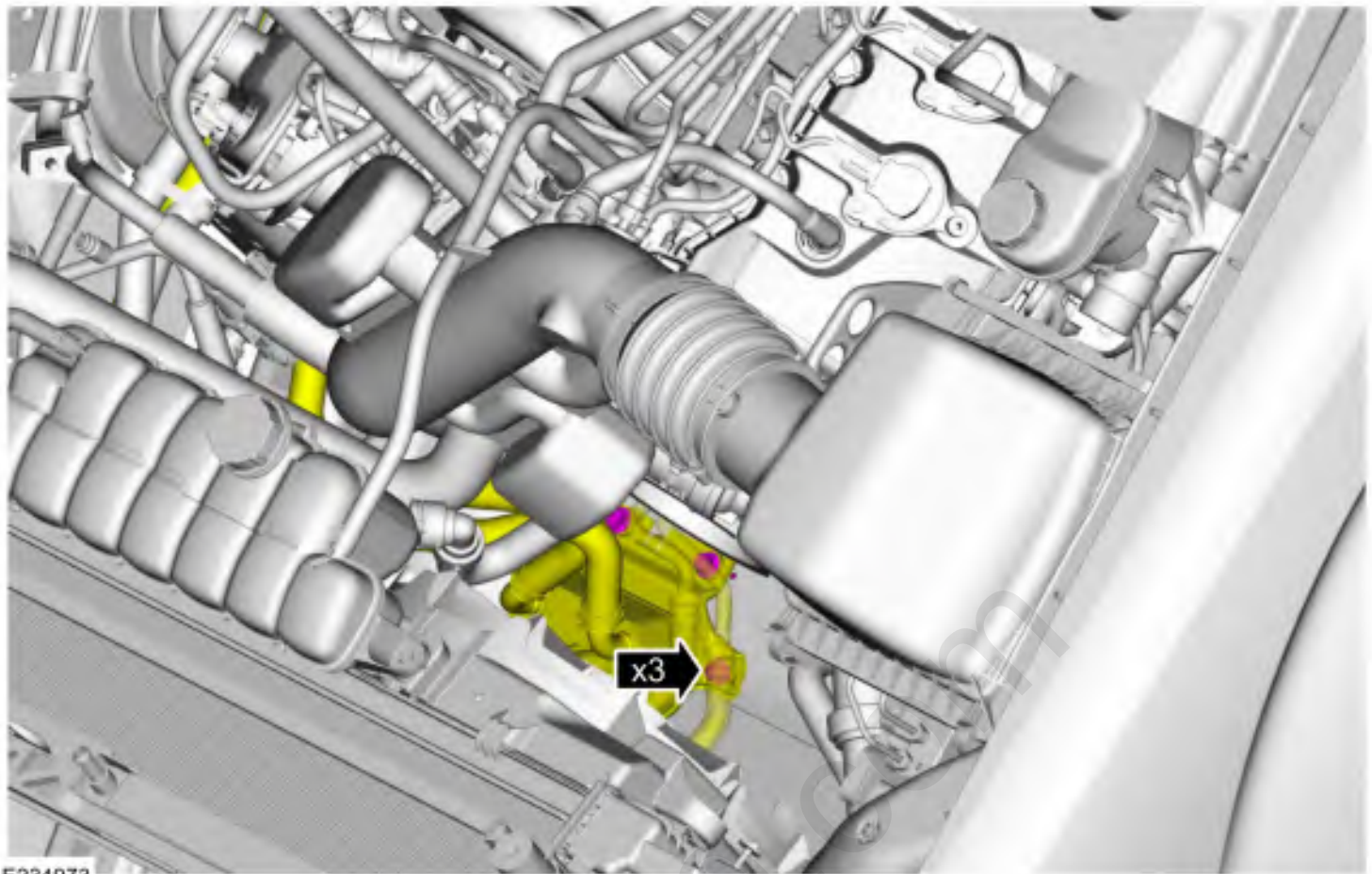
6. If equipped.
Remove the fasteners and the underbody shield.
Torque: 30 lb.ft (40 Nm)



7. If equipped.

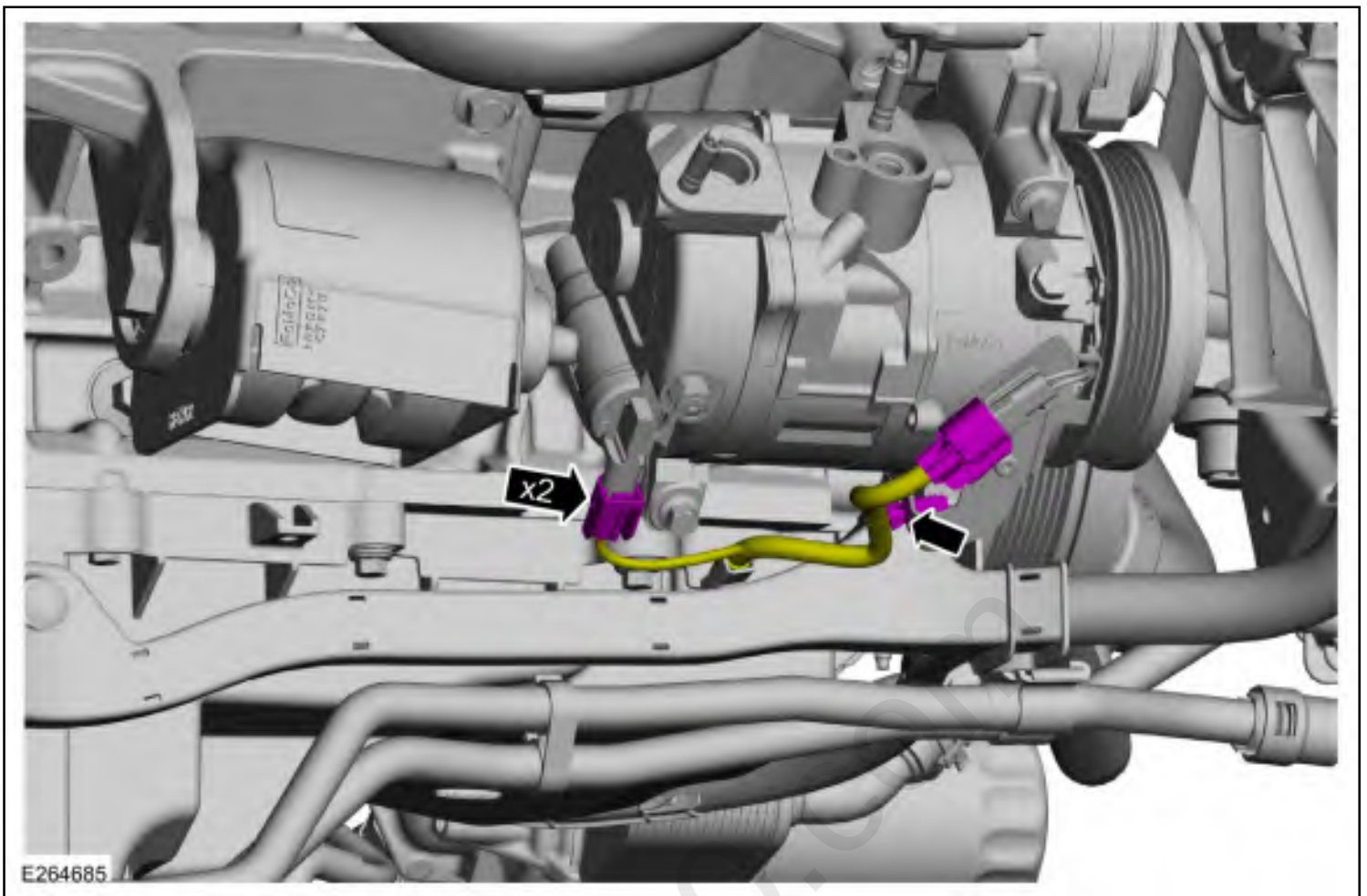
Remove the fasteners and position the transmission fluid warmer aside.

Torque: 159 lb.in (18 Nm)



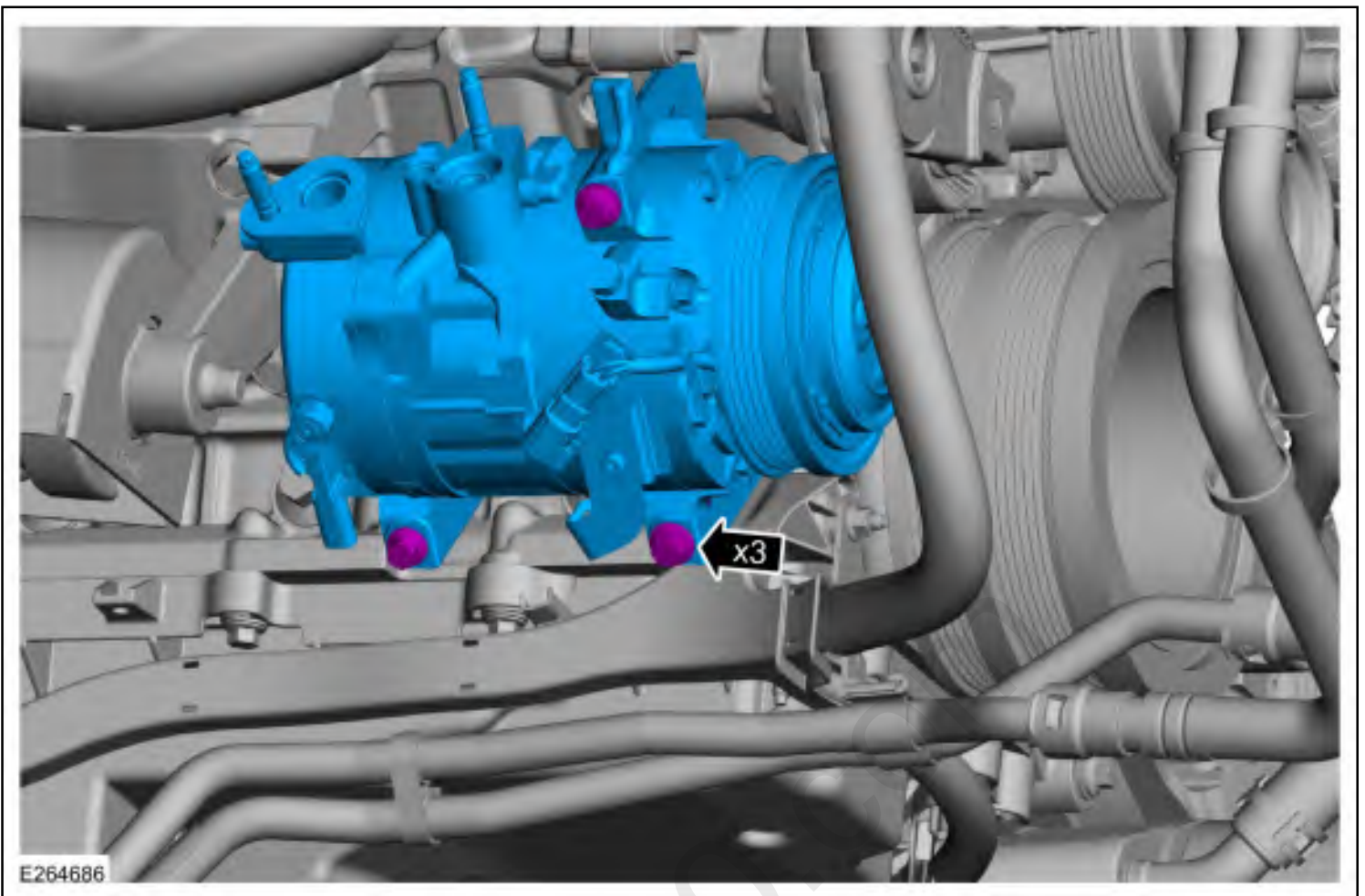
8. **NOTE:** *Frame removed for clarity.*

Disconnect the electrical connectors and detach the wiring harness retainer.



9. **NOTE:** *Frame removed for clarity.*

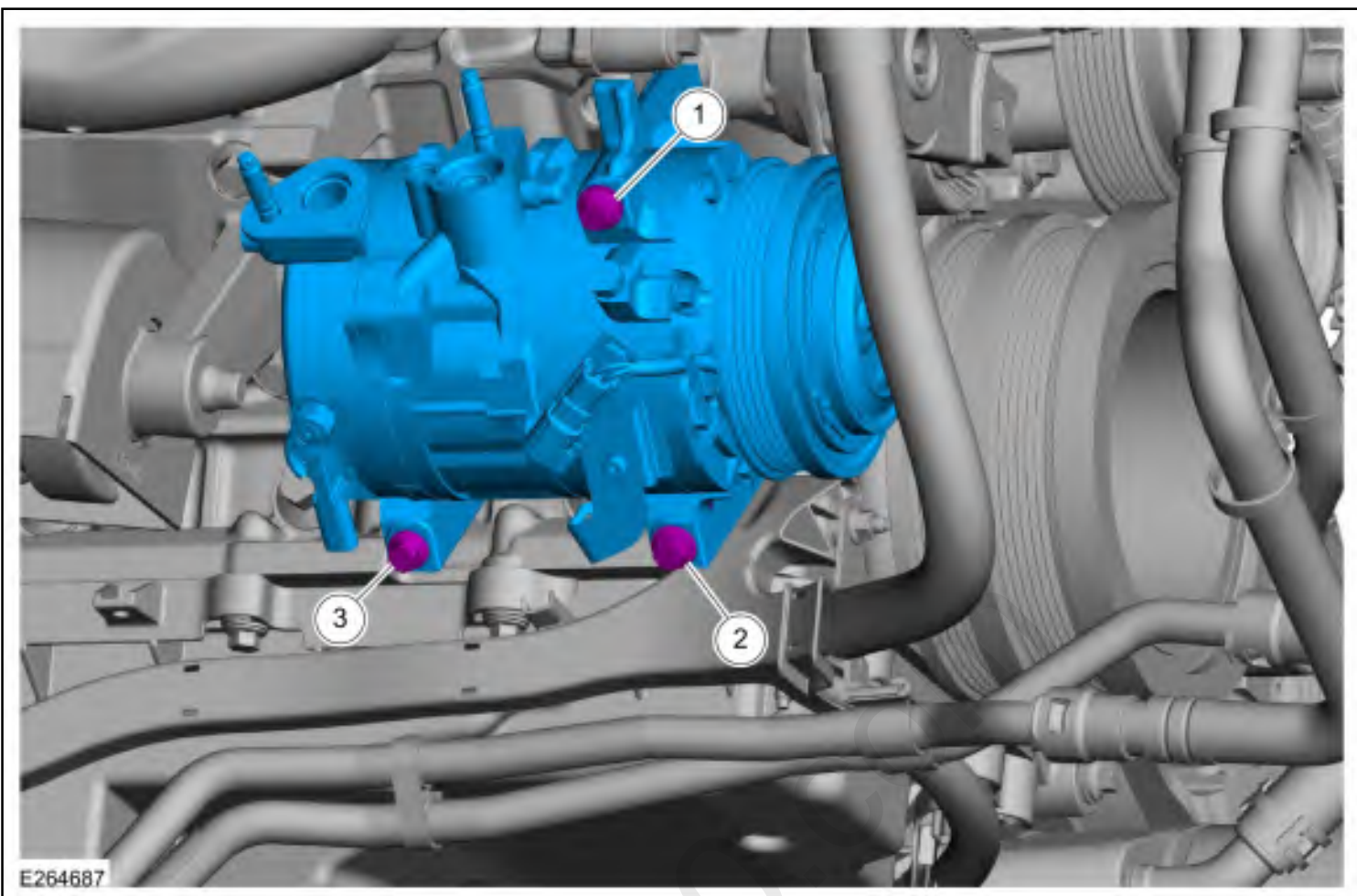
Remove the bolts and the A/C compressor.



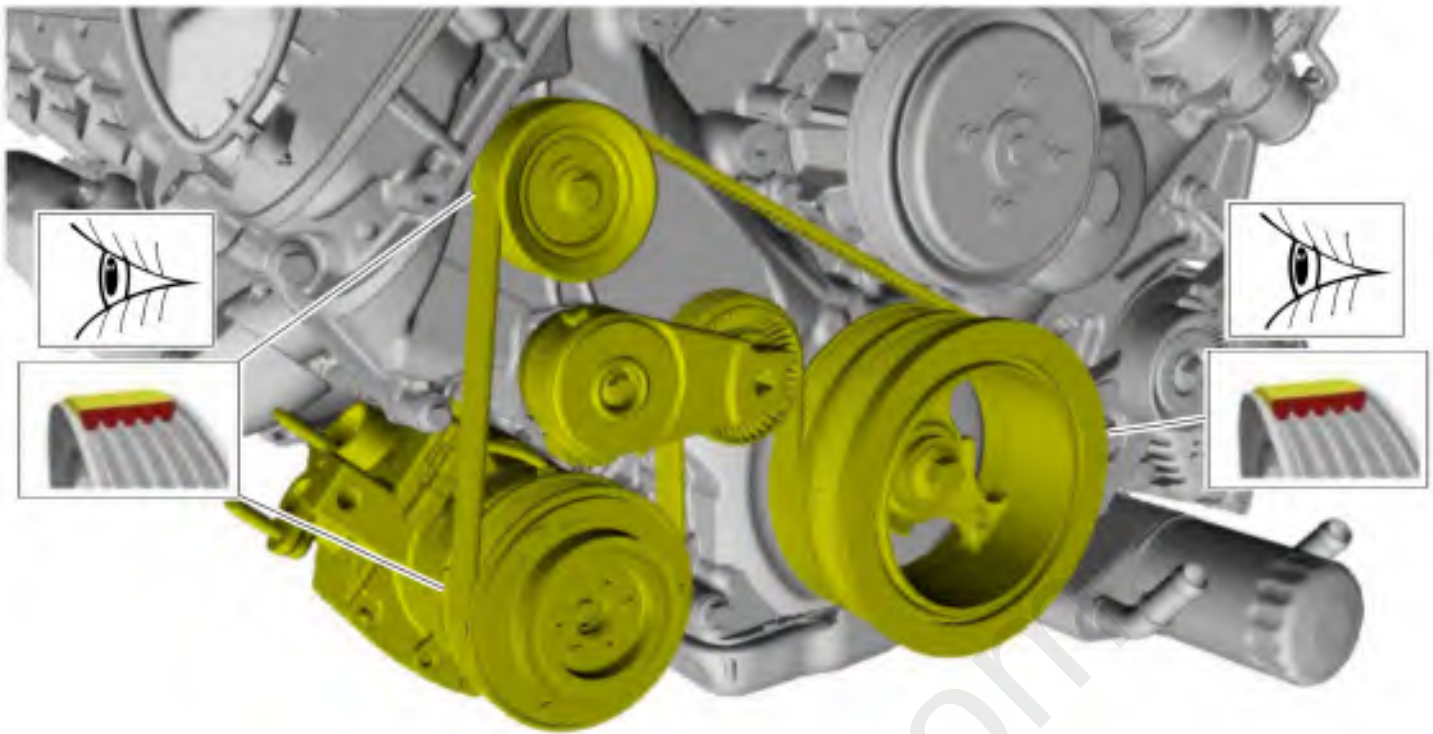
Installation

1. To install, reverse the removal procedure.
2. **NOTE:** *Frame removed for clarity.*

Tighten the A/C compressor bolts in the sequence shown.
Torque: 18 lb.ft (25 Nm)



3. **NOTE:** After installation, make sure the A/C compressor belt is correctly seated on all pulleys.



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4. **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.

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