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2006 FORD SportKa OEM Service and Repair Workshop Manual

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compressor or damage to the receiver drier element.

NOTE

A new A/C (air conditioning) compressor may come equipped with an A/C (air conditioning) clutch disc and hub, A/C (air conditioning) compressor pulley and A/C (air conditioning) 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 (air conditioning) compressor to the new compressor prior to installation of the A/C (air conditioning) 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.

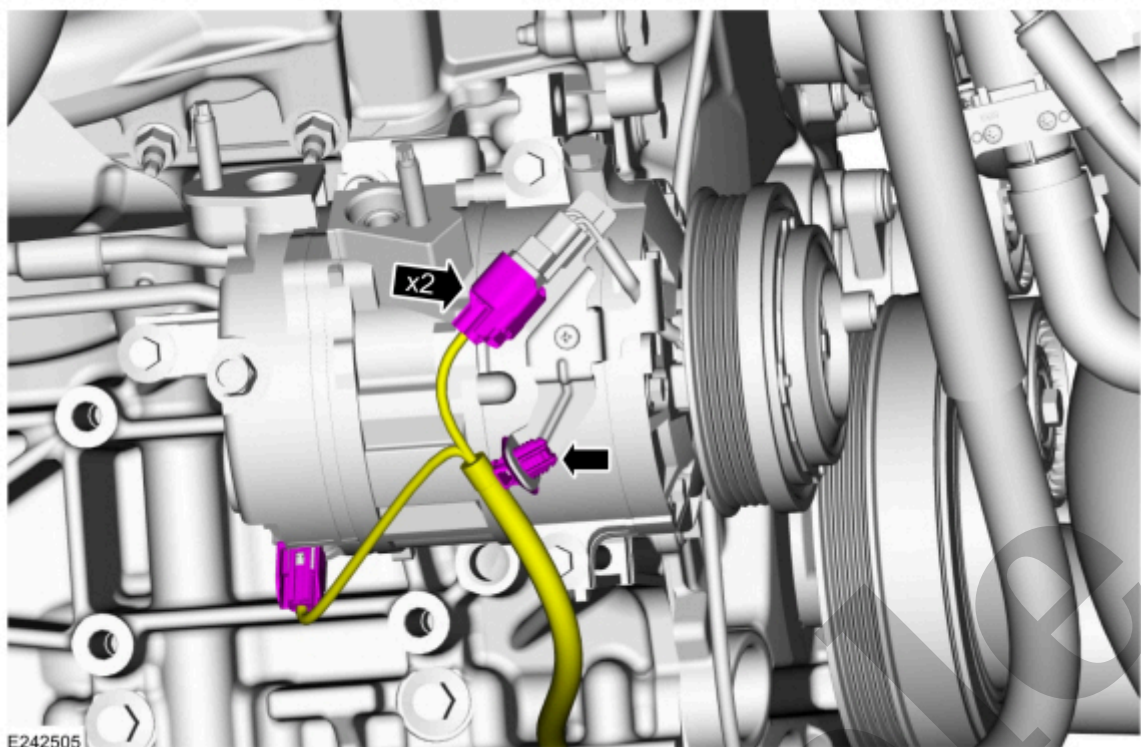
2. Remove the A/C (air conditioning) compressor belt.

Refer to: [Air Conditioning \(A/C\) Compressor Belt](#) (303-05B Accessory Drive - 3.3L Duratec-V6, Removal and Installation).

3. Remove the A/C (air conditioning) compressor inlet and outlet line retainers and position aside lines.

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

Torque : 159 lb.in (18 Nm)

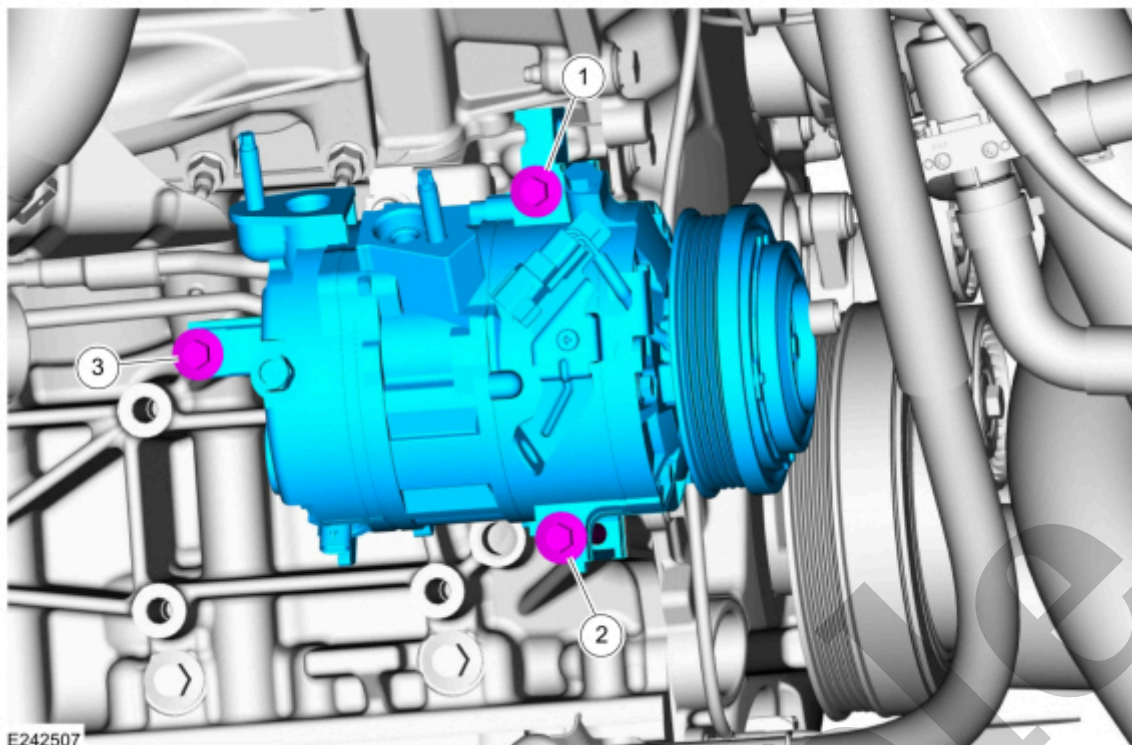


[Click here to learn about symbols, color coding, and icons used in this manual.](#)

5. **NOTE**

Frame removed for clarity.

Remove the bolts and the A/C (air conditioning) compressor.



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

NOTE

A new A/C (air conditioning) compressor may come equipped with an A/C (air conditioning) clutch disc and hub, A/C (air conditioning) compressor pulley and A/C (air conditioning) 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 (air conditioning) compressor to the new compressor prior to installation of the A/C (air conditioning) 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 A/C (air conditioning) compressor belt.

Refer to: [Air Conditioning \(A/C\) Compressor Belt](#)(303-05C Accessory Drive - 3.5L EcoBoost (BM), Removal and Installation).

3. Remove the following items:

- Remove the battery tray.

Refer to: [Battery Tray](#)(414-01 Battery, Mounting and Cables, Removal and Installation).

- Remove the RH (right-hand) air cleaner outlet pipe.

Refer to: [Air Cleaner Outlet Pipe RH](#)(303-12C Intake Air Distribution and Filtering - 3.5L EcoBoost (BM), Removal and Installation).

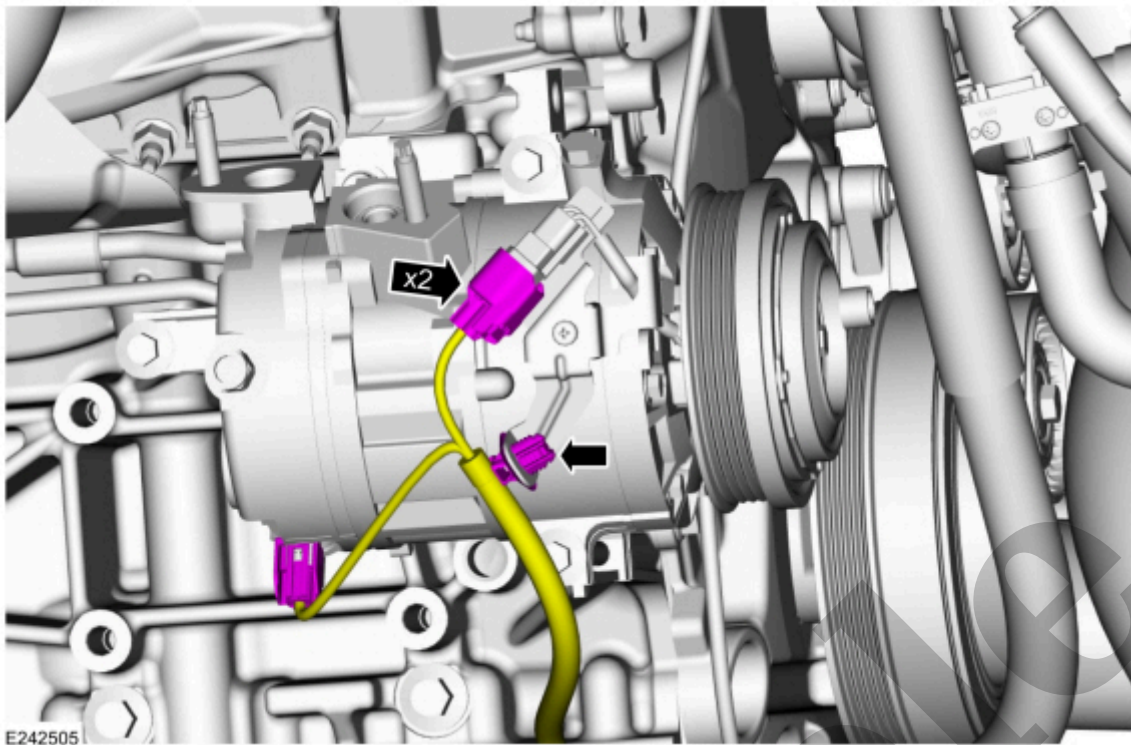
- Remove the RH (right-hand) CAC (charge air cooler) intake pipe.

Refer to: [Charge Air Cooler \(CAC\) Intake Pipe](#)(303-12C Intake Air Distribution and Filtering - 3.5L EcoBoost (BM), Removal and Installation).

4. NOTE

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Remove the nuts and disconnect the A/C (air conditioning) compressor inlet and outlet lines.

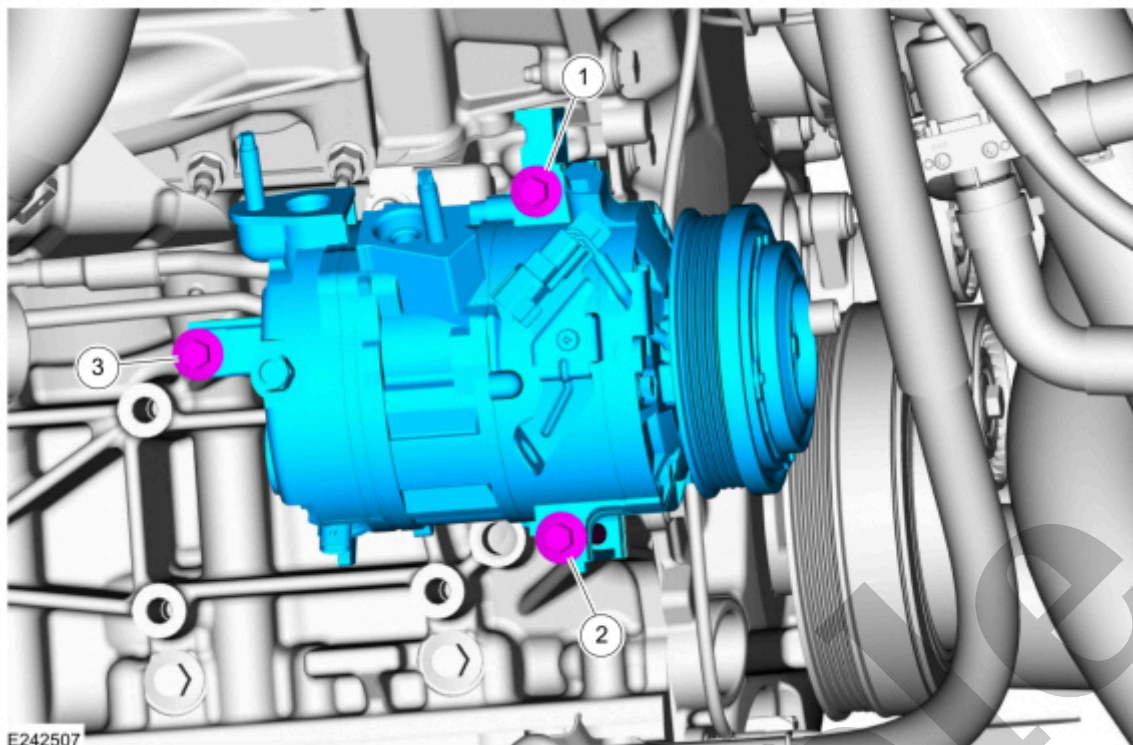


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6. **NOTE**

Frame removed for clarity.

Remove the bolts and the A/C (air conditioning) compressor.



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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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compressor or damage to the receiver drier element.

NOTE

Removal steps in this procedure may contain installation details.

1. Recover the refrigerant. Refer to the appropriate Recovery procedure in Group 412.
2. De-energize the high voltage system.

Refer to: [High Voltage System De-energizing - Full Hybrid Electric Vehicle \(FHEV\)](#)(414-03A High Voltage Battery, Mounting and Cables, General Procedures).

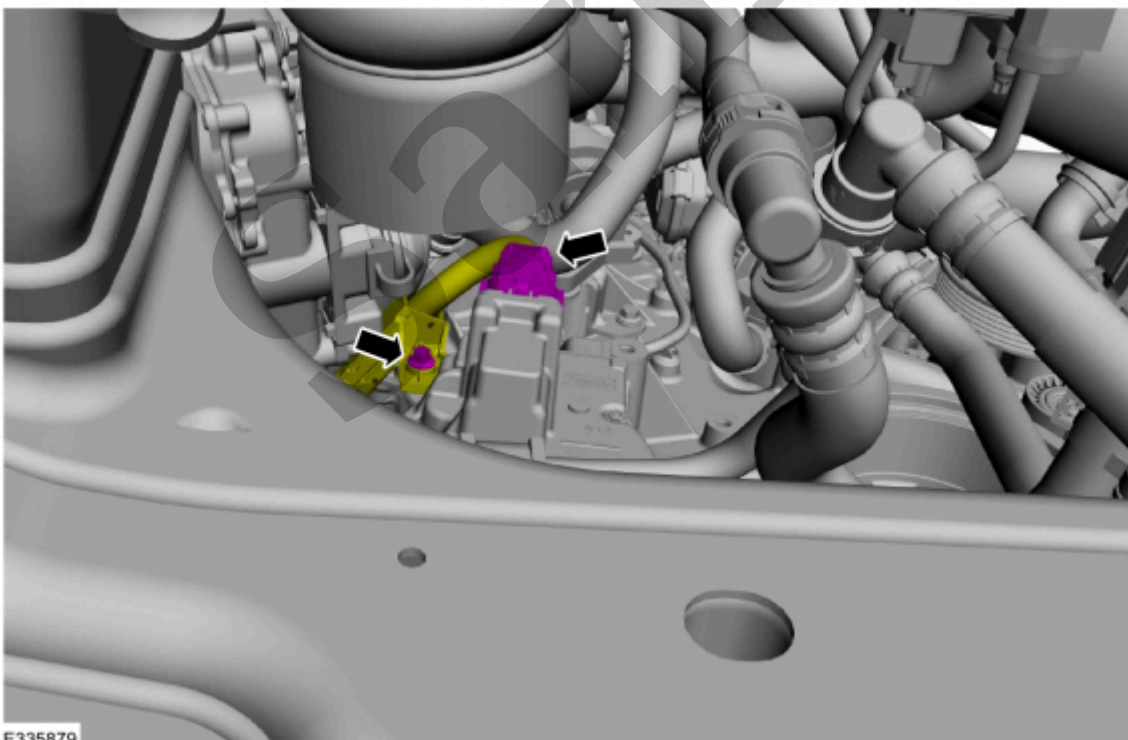
3. Remove the LH (left-hand) CAC (charge air cooler) intake pipe.

Refer to: [Charge Air Cooler \(CAC\) Intake Pipe](#)(303-12D Intake Air Distribution and Filtering - 3.5L V6 PowerBoost (CN), Removal and Installation).

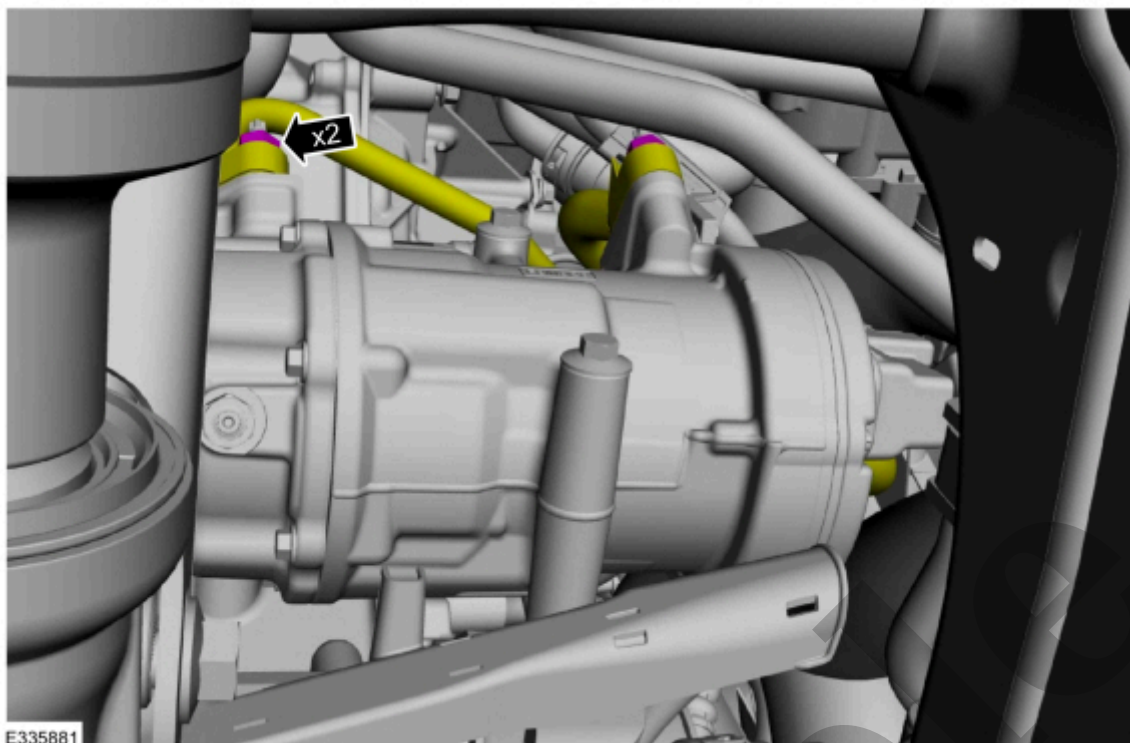
4.
 - Remove the wire harness routing retainer.

Torque : 53 lb.in (6 Nm)

- Disconnect the A/C (air conditioning) compressor high voltage electrical connector.



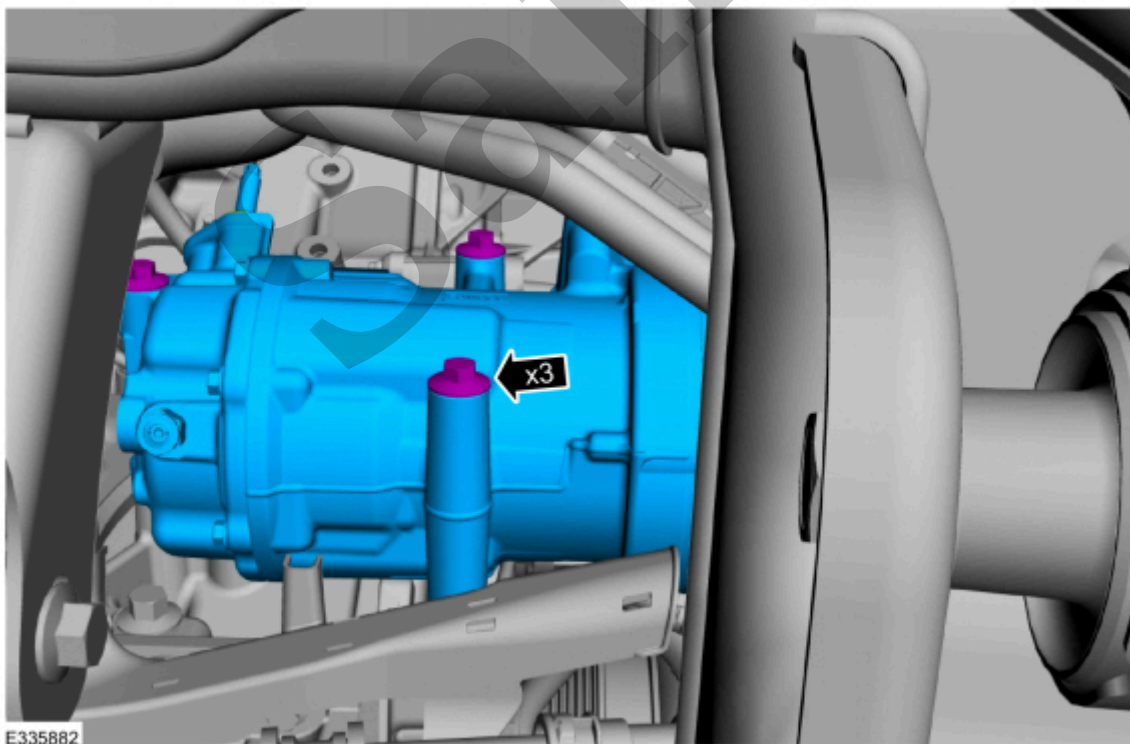
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8. Remove the mounting bolts and the A/C (air conditioning) compressor.

Torque : 18 lb.ft (25 Nm)



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

412-00 Climate Control System - General Information	2022 F-150
Removal and Installation	Procedure revision date: 10/5/2020

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

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 (air conditioning) compressor due to an internal failure of the old unit, carry out the following procedures to remove contamination from the A/C (air conditioning) system. Failure to remove contamination from the A/C (air conditioning) system, if present, will result in poor A/C (air conditioning) performance and/or damage to the new A/C (air conditioning) compressor and other components. If A/C (air conditioning) flushing equipment is available, carry out flushing of the A/C (air conditioning) system prior to installing a new A/C (air conditioning) compressor. If A/C (air conditioning) flushing equipment is not available, replace all contaminated components after a new A/C (air conditioning) compressor has been installed. Install a new Thermostatic Expansion Valve (TXV) as directed by the A/C (air conditioning) flushing. Install a new receiver drier element as directed by the A/C (air conditioning) flushing.

NOTE