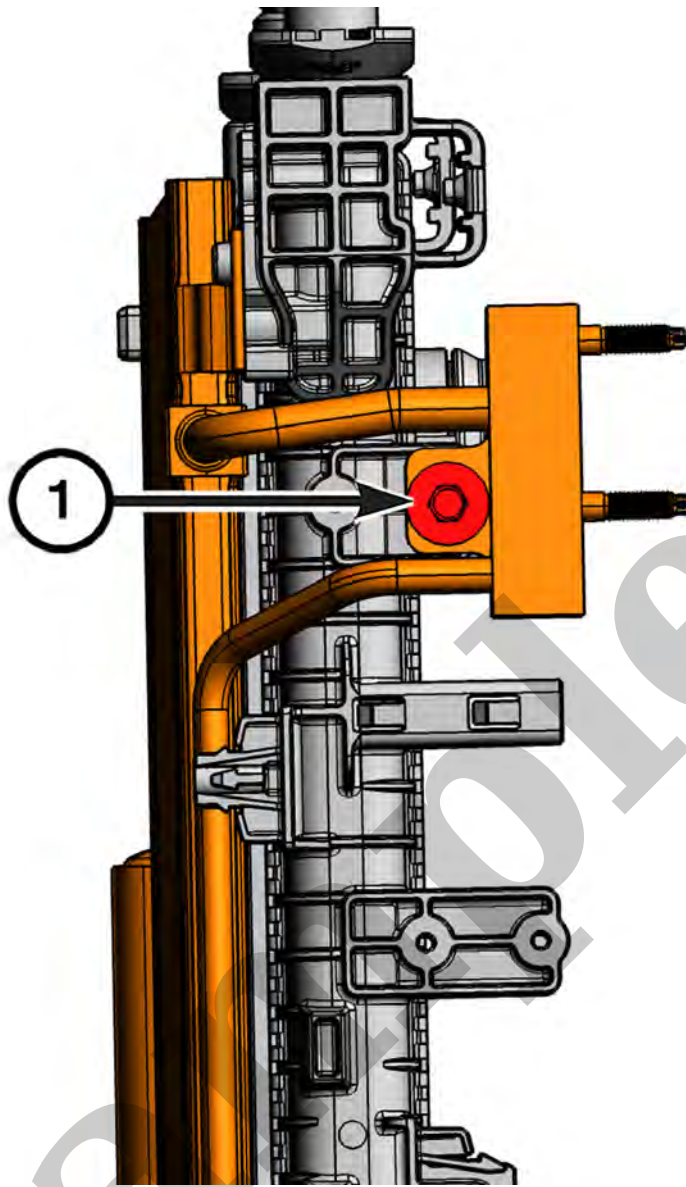


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2014 Jeep Wrangler Service and Repair Manual

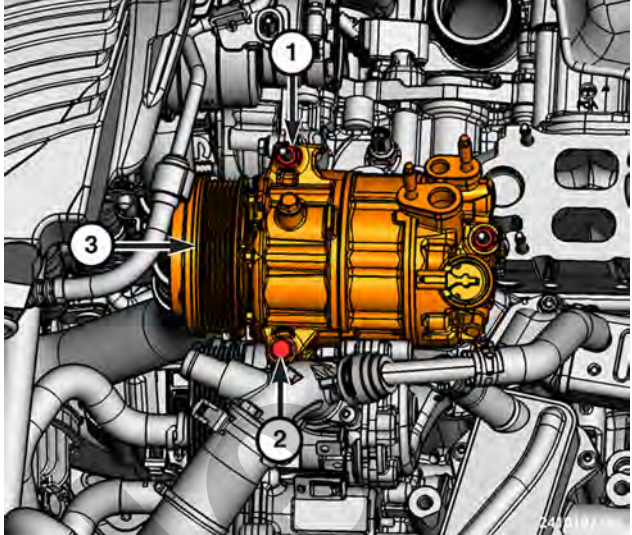
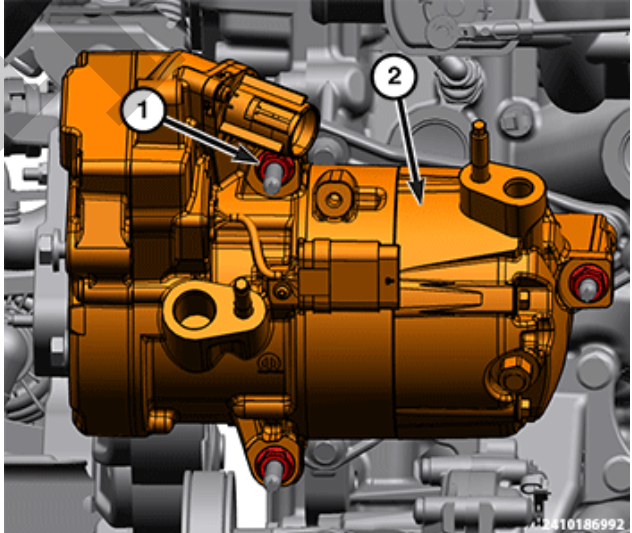
[Go to manual page](#)

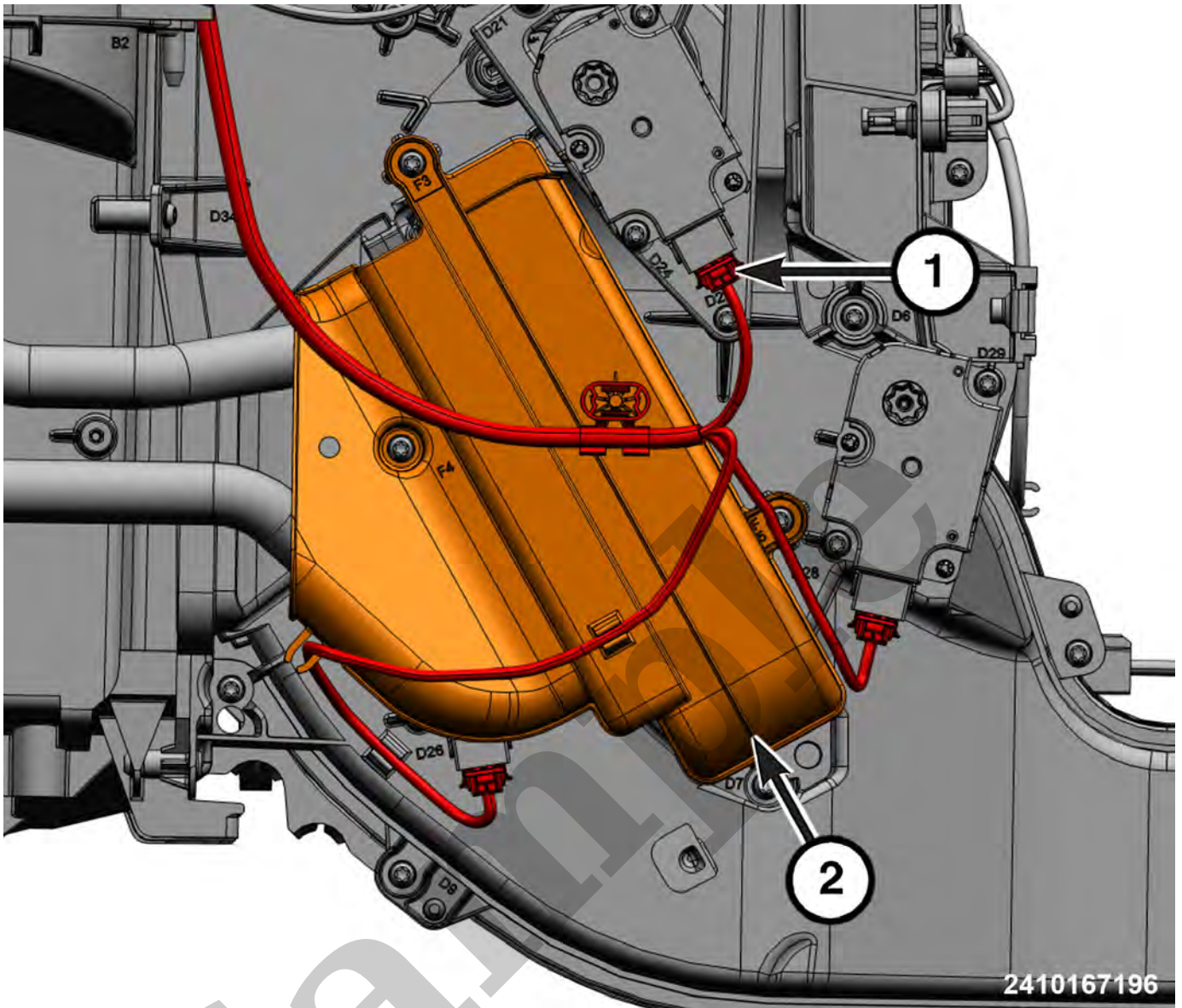


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1 - A/C Condenser Manifold Fastener

5. Remove the A/C condenser manifold fastener securing the A/C condenser manifold to the radiator.

DESCRIPTION	SPECIFICATION	COMMENT
	<ol style="list-style-type: none"> 4. Tighten lower bolt to 28 N·m (21 ft. Lbs.) 5. Tighten upper nut to 28 N·m (21 ft. Lbs.) 	
<p>A/C Compressor to Engine Nuts - 2.0L PHEV Engine</p>	<p>Torque Procedure</p> <ol style="list-style-type: none"> 1. Install the nuts and hand tighten 2. Tighten upper nut to 28 N·m (21 ft. Lbs.) 3. Tighten middle nut to 28 N·m (21 ft. Lbs.) 4. Tighten lower nut to 28 N·m (21 ft. Lbs.) 	<p>Tightening Sequence</p> 
<p>A/C Compressor to Engine Bolt and Nuts - 3.6L Engine</p>	<p>Torque Procedure</p> <ol style="list-style-type: none"> 1. Install the nuts and hand tighten 2. Install bolt and hand tighten. 3. Tighten rearward nut to 28 N·m (21 	<p>Tightening Sequence</p>



1 - Wire Harness Connectors

2 - Heater Core Cover

3. Disconnect the wire harness connectors and remove wire harness from the heater core cover.

Refer To List:

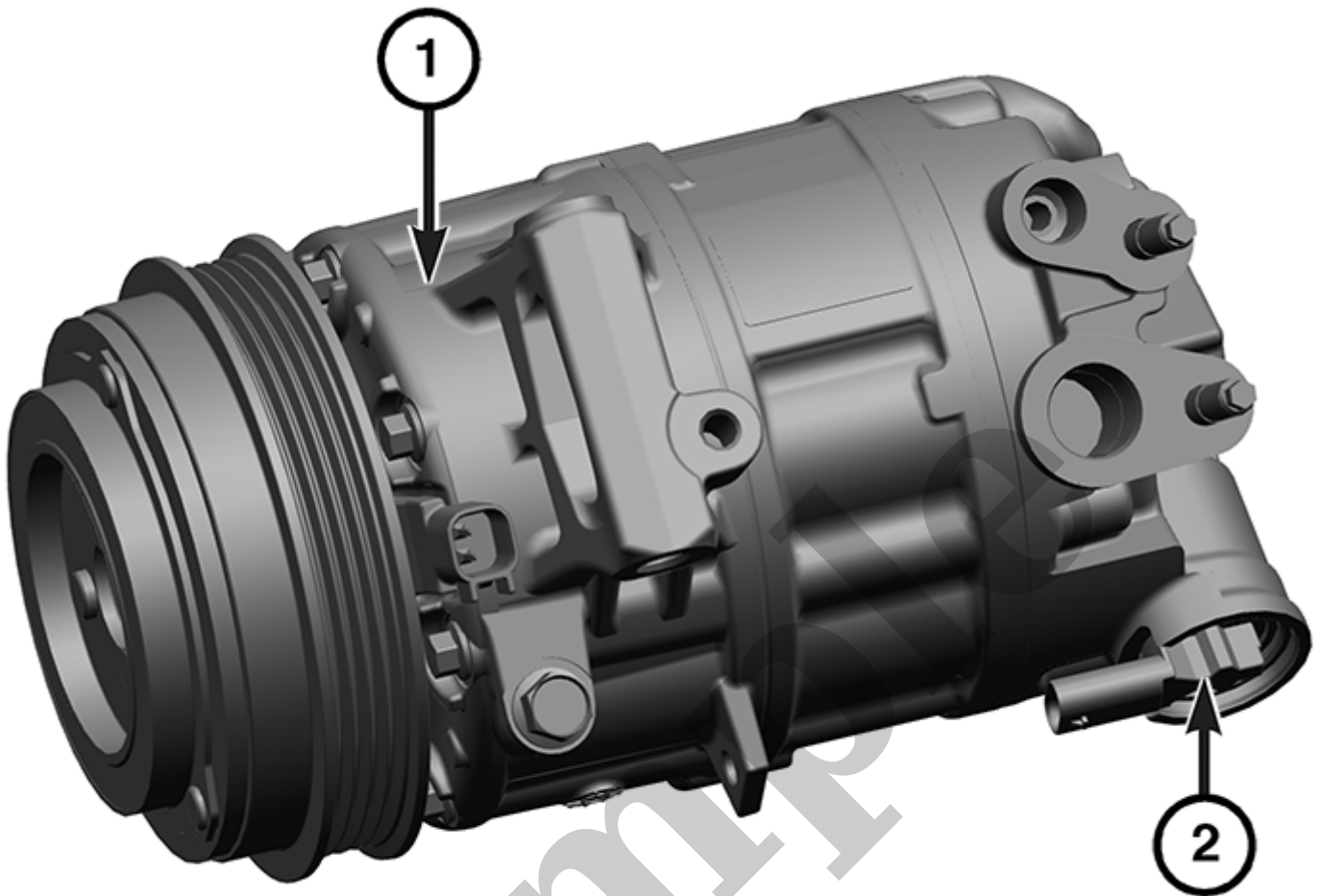
List 1

- [09 - Engine, 2.0L / Cooling System / Engine Cooling / Standard Procedure](#)
- [09 - Engine, 3.6L / Engine Cooling / Standard Procedure](#)
- [09 - Engine, 5.7L / Engine Cooling / Standard Procedure](#)

Sample

- Lubricate the valve core with clean refrigerant oil prior to installation. Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
- Install the valve core into the service port(s) using a Schrader type valve core tool. Tighten the valve core securely.
- Evacuate the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
- Charge the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
- The protective cap helps aid in service port sealing and helps protect the refrigerant system from contamination. Remember to always install the protective cap on the service port when refrigerant system service is complete.

Sample



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The A/C compressor (1) of the air conditioning system is the 7-cylinder variable displacement type with external control of the displacement via the ECVD valve (2).

The HVAC module manages the ECVD valve to increase or decrease the compressor displacement and thus the system pressure, via Pulse Width Modulation (PWM) control. External regulation of the displacement improves comfort, operation of the air conditioning system and saves the energy requested by the climate control system.

The external ECVD A/C compressor controls are:

- ECVD valve
- Electromagnetic clutch

A/C Condenser

[Component Index](#)

[Component Index](#)

The Internal Heat Exchanger (IHX) line is made of formed aluminum tubing. It includes flexible hose sections composed of several layers of rubber compound, reinforcement, and a polyamide barrier layer at the expansion valve connections, and an internal heat exchanger for improved performance efficiency of the A/C system. It contains high-pressure liquid refrigerant in the smaller line as it leaves the condenser on its way to the expansion valve and low pressure gas in the larger line as it returns to the compressor. It is sealed at each end of the line with slimline gaskets that are not affected by the refrigerant used in the system or the refrigerant oil in the system.

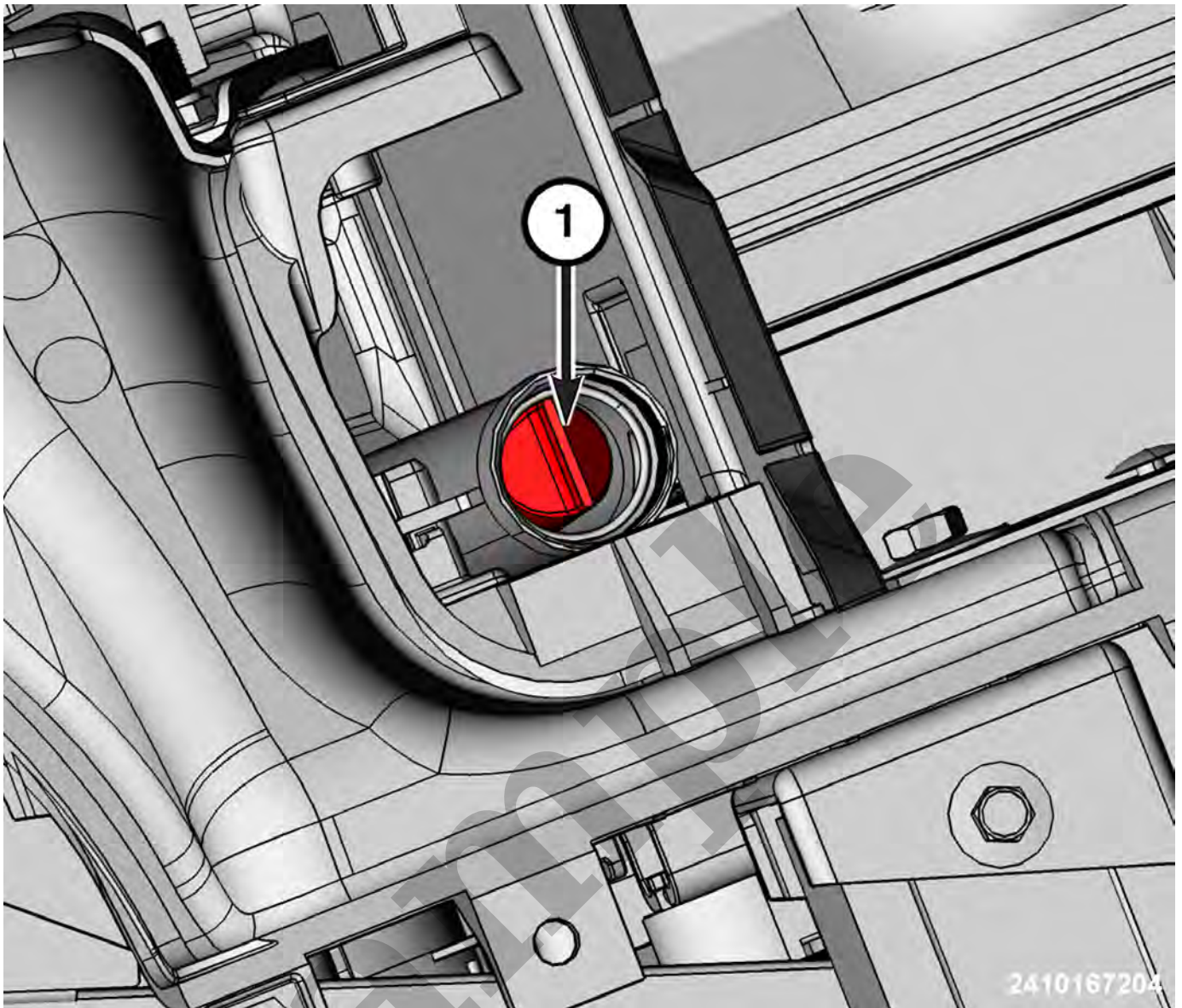
A/C Suction Line Jumper

[Component Index](#)

The suction line jumper is made of formed aluminum tubing at both ends. To prevent refrigerant leaks due to normal engine roll and vibrations, it includes a section of hose composed of several layers of rubber compound, reinforcement, and a polyamide barrier layer. It is sealed at both ends with slimline gaskets that are not affected by the refrigerant used in the system or the refrigerant oil in the system.

Heater Core

[Component Index](#)



1 - A/C Receiver Drier Filter

4. Remove the A/C receiver/drier filter from the A/C condenser.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

CAUTION

If an internal failure of the A/C compressor has occurred the A/C system must be flushed and the A/C receiver/drier filter must be replaced. Failure to flush the system and replace the A/C receiver/drier filter can cause serious damage to the replacement A/C compressor.

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- When replacing multiple A/C system components, refer to the Refrigerant Oil Capacities chart to determine how much oil should be added to the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
- If only the A/C evaporator is being replaced, add 44 milliliters (1.5 fluid ounces) of refrigerant oil to the refrigerant system. Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
- Replacement of the seals is required anytime a refrigerant line or expansion valve is disconnected. Failure to replace the rubber and metal dual-plane seals may result in a refrigerant system leak.
- Make sure that the evaporator drain is clean and unrestricted and that the evaporator insulator is properly installed.
- Evacuate the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
- If the A/C evaporator is being replaced, add 44 milliliters (1.5 fluid ounces) of refrigerant oil to the refrigerant system. When replacing multiple A/C system components, refer to the Refrigerant Oil Capacities chart to determine how much oil should be added to the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)). Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
- Charge the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).