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FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2014 JEEP Wrangler Unlimited OEM Service and Repair Workshop Manual

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- When replacing multiple A/C system components, see the Refrigerant Oil Capacities chart to determine how much oil should be added to the refrigerant system ([Refer to 24 - Heating and Air Conditioning/Standard Procedure](#)).
- Replacement of the refrigerant line O-ring seals and gaskets is required anytime a refrigerant line is disconnected. Failure to replace the rubber O-ring seals and metal gaskets may result in a refrigerant system leak.
- Lubricate **NEW** rubber O-ring seals with clean refrigerant oil and install them and **NEW** gaskets to the discharge line fittings. Use only the specified O-rings as they are made of a special material for the system. Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
- Evacuate the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
- Adjust the refrigerant oil level ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
- Charge the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).

TORQUE SPECIFICATIONS - HVAC

DESCRIPTION	SPECIFICATION	COMMENT
PHEV A/C Compressor Blocker Bracket to PHEV A/C Compressor Bolts	20 N·m (15 Ft. Lbs.)	-
PHEV A/C Compressor Blocker Bracket to PHEV A/C Compressor Nut	28 N·m (21 ft. Lbs.)	-
PHEV A/C Compressor Bracket to Engine Bolts	28 N·m (21 ft. Lbs.)	-
A/C Compressor to Engine Nuts - 2.0L Engine	Torque Procedure <ol style="list-style-type: none"> 1. Install the nuts and hand tighten 2. Install bolt and hand tighten. 3. Tighten middle nut to 28 N·m (21 ft. Lbs.) 4. Tighten lower bolt to 28 N·m (21 ft. Lbs.) 	Tightening Sequence

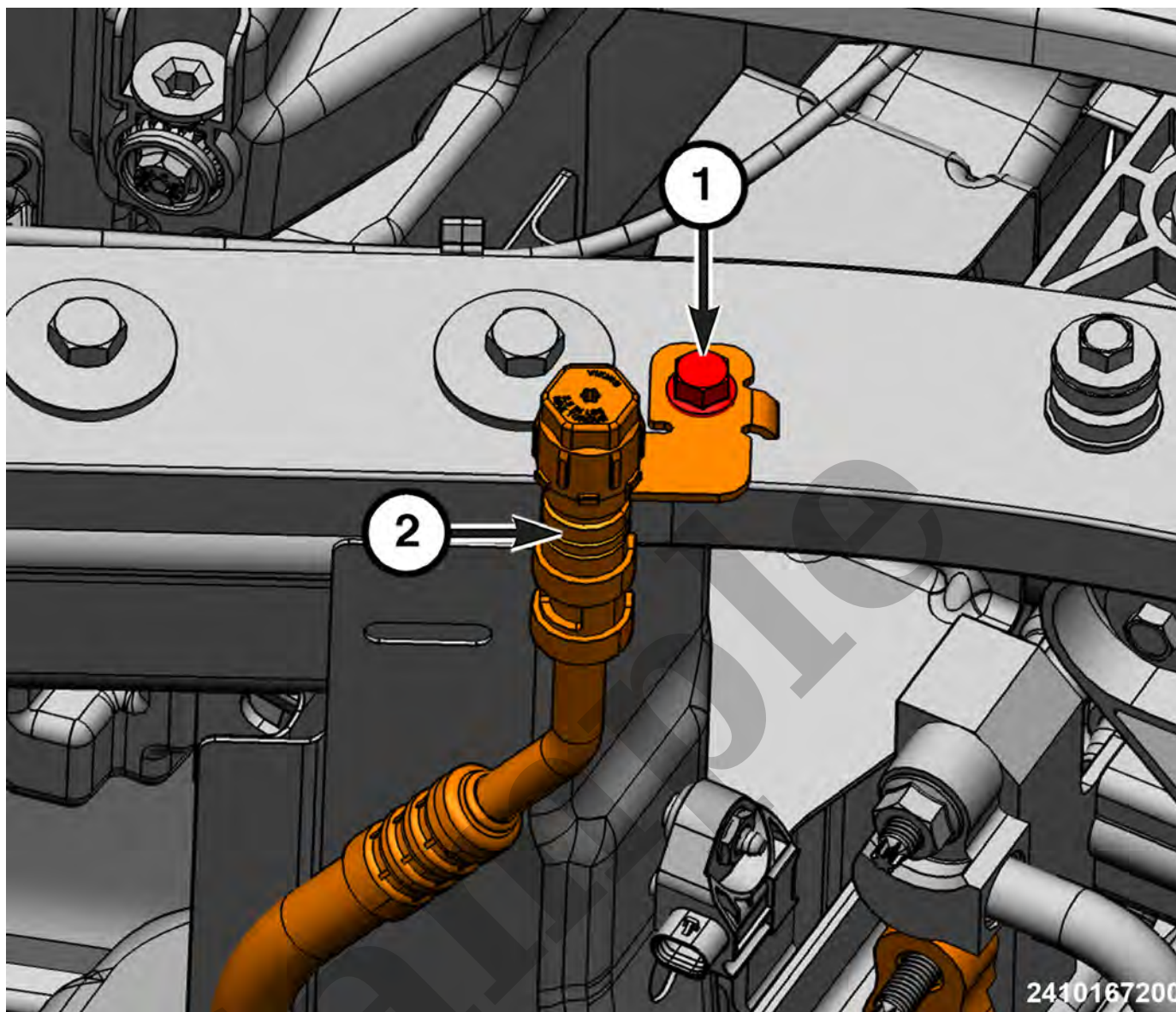
YOUR CURRENT VEHICLE

A/C Liquid Jumper Line - PHEV

A/C LIQUID JUMPER LINE - PHEV

REMOVAL

1. Recover the refrigerant from the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
2. Remove the air cleaner body ([Refer to Engine/Air Intake System/BODY, Air Cleaner/Removal and Installation](#))([Refer To List 1](#)).

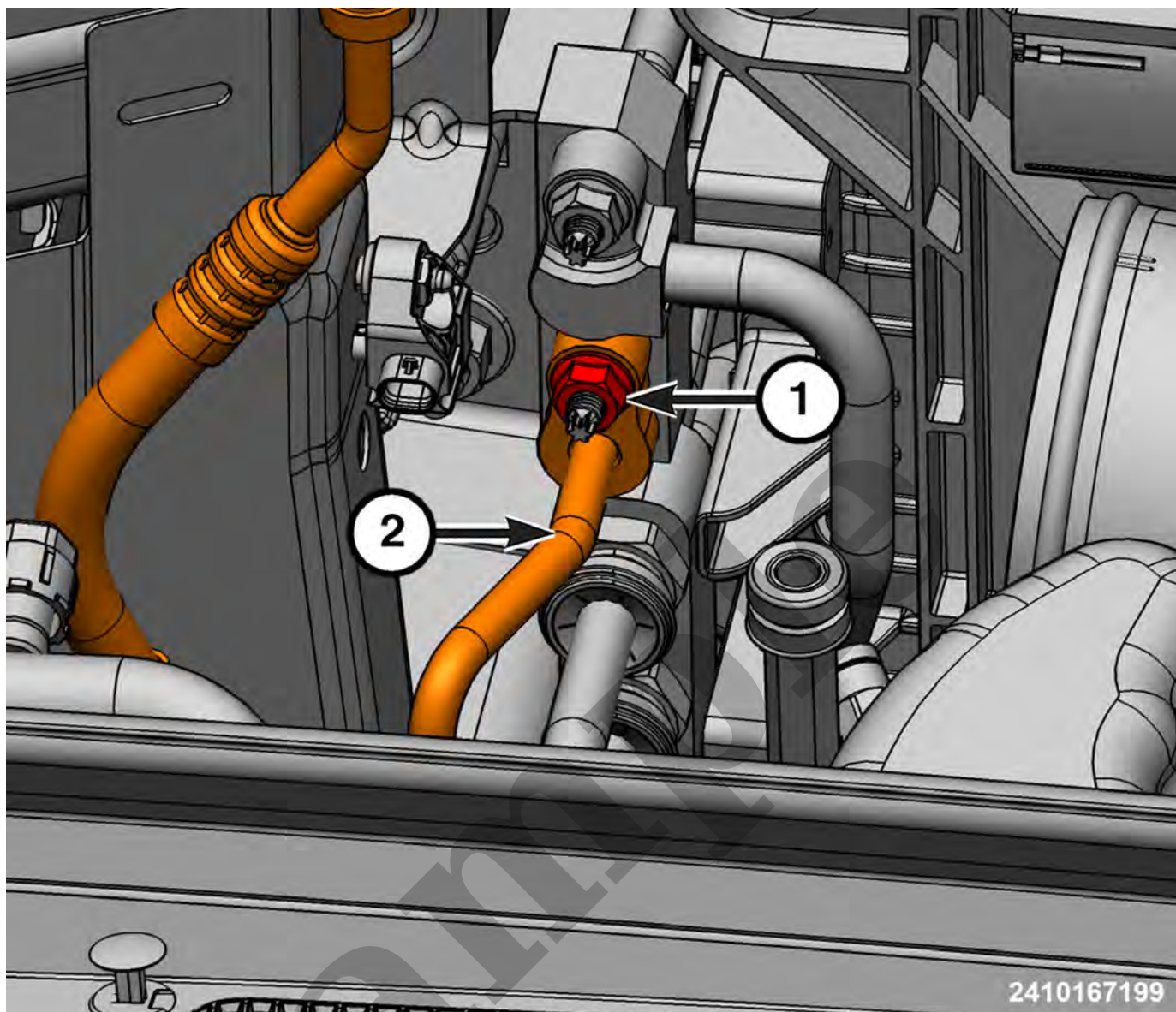


1 - Fastener

2 - A/C Liquid Jumper Line

10. Remove the fastener securing the A/C liquid jumper line to the vehicle.

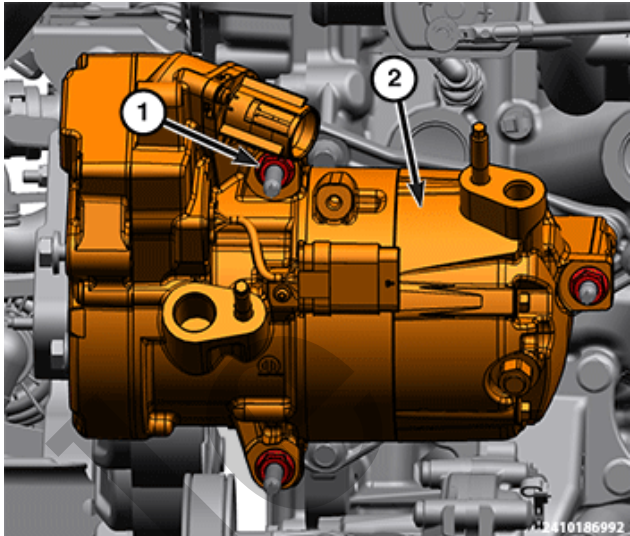
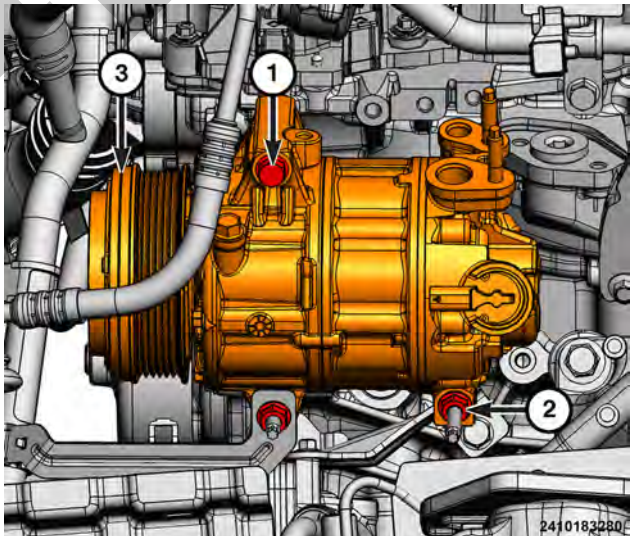
DESCRIPTION	SPECIFICATION	COMMENT
	<p>3. Tighten upper nut to 28 N·m (21 ft. Lbs.)</p> <p>4. Tighten upper bolt to 28 N·m (21 ft. Lbs.)</p> <p>5. Tighten lower nut to 28 N·m (21 ft. Lbs.)</p>	 <p>The diagram shows a 3D perspective view of an A/C compressor mounted on an engine. Three specific points are highlighted with numbered callouts: 1 points to the upper nut, 2 points to the upper bolt, and 3 points to the lower nut. The compressor is orange, and the engine components are grey.</p>
A/C Compressor to Engine Mounting Studs	10 N·m (7 Ft. Lbs.)	–
A/C Clutch to Compressor Shaft Bolt	14 N·m (10 Ft. Lbs.)	–
A/C Pressure Transducer to A/C Liquid Line	5 N·m (45 In. Lbs.)	–
A/C Suction Liquid Line Assembly to Body Nuts	7 N·m (62 In. Lbs.)	–
HVAC Housing to Instrument Panel Support Bolts	5 N·m (44 In. Lbs.)	–
Refrigerant Lines to A/C Compressor Nut(s)	20 N·m (15 Ft. Lbs.)	–
Refrigerant Lines to A/C Condenser Nuts	20 N·m (15 Ft. Lbs.)	–
Refrigerant Lines to A/C Expansion Valve Nut	20 N·m (15 Ft. Lbs.)	–

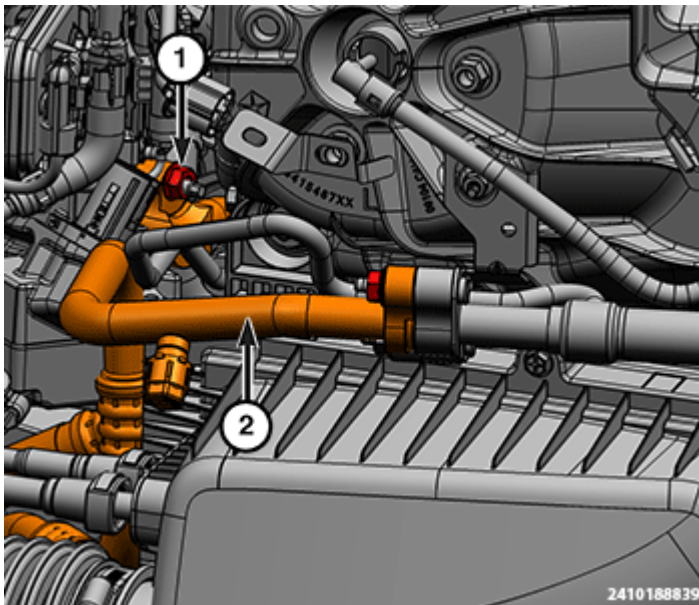


1 - Nut

2 - Liquid Jumper Line

5. Remove the nut securing the liquid jumper line to the A/C condenser.
6. Install protective plugs or tape over the open refrigerant line fittings. **Remove and discard the O-ring seal.**

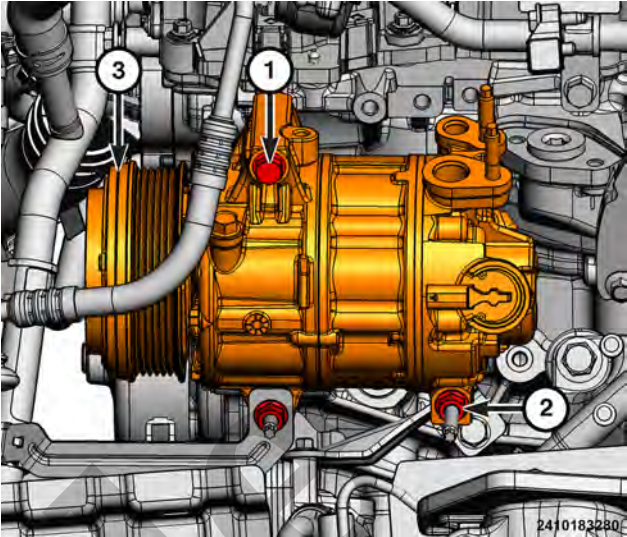
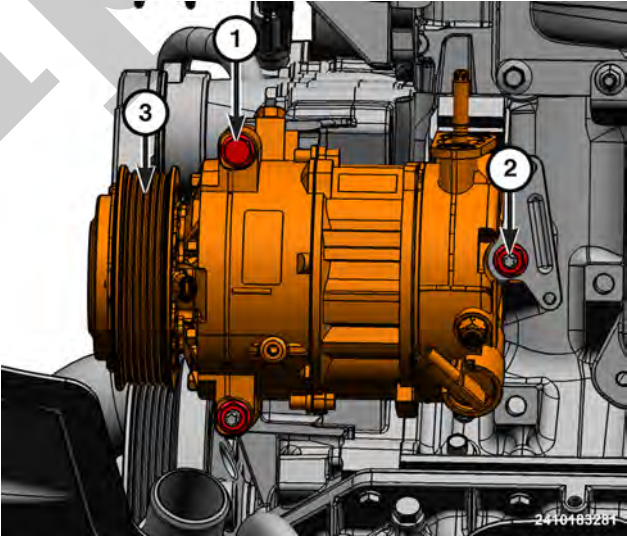
DESCRIPTION	SPECIFICATION	COMMENT
A/C Compressor to Engine Nuts - 2.0L PHEV Engine	Torque Procedure <ol style="list-style-type: none"> 1. Install the nuts and hand tighten 2. Tighten upper nut to 28 N·m (21 ft. Lbs.) 3. Tighten middle nut to 28 N·m (21 ft. Lbs.) 4. Tighten lower nut to 28 N·m (21 ft. Lbs.) 	<p>Tightening Sequence</p> 
A/C Compressor to Engine Bolt and Nuts - 3.6L Engine	Torque Procedure <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 ft. Lbs.) 4. Tighten upper bolt to 28 N·m (21 ft. Lbs.) 5. Tighten forward nut to 28 N·m (21 ft. Lbs.) 	<p>Tightening Sequence</p> 
A/C Compressor to Engine Bolt and Nuts - 5.7L Engine	Torque Procedure <ol style="list-style-type: none"> 1. Install the nuts and hand tighten 2. Install bolt and hand tighten. 	<p>Tightening Sequence</p>



1 - Nuts

2 - A/C Suction Jumper Line

3. Remove the nuts that secures the A/C suction jumper line to the A/C suction and liquid line assembly and the A/C compressor.
4. Separate the A/C suction jumper line from the A/C suction and liquid line assembly and the A/C compressor.
5. Install protective plugs or tape over the open refrigerant line fittings. **Remove and discard the O-ring seal.**

DESCRIPTION	SPECIFICATION	COMMENT
	ft. Lbs.) 4. Tighten upper bolt to 28 N·m (21 ft. Lbs.) 5. Tighten forward nut to 28 N·m (21 ft. Lbs.)	
A/C Compressor to Engine Bolt and Nuts - 5.7L Engine	Torque Procedure 1. Install the nuts and hand tighten 2. Install bolt and hand tighten. 3. Tighten upper nut to 28 N·m (21 ft. Lbs.) 4. Tighten upper bolt to 28 N·m (21 ft. Lbs.) 5. Tighten lower nut to 28 N·m (21 ft. Lbs.)	Tightening Sequence 
A/C Compressor to Engine Mounting Studs	10 N·m (7 Ft. Lbs.)	—
A/C Clutch to Compressor Shaft Bolt	14 N·m (10 Ft. Lbs.)	—
A/C Pressure Transducer to A/C Liquid Line	5 N·m (45 In. Lbs.)	—

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, see the Refrigerant Oil Capacities chart to determine how much oil should be added to the refrigerant system ([Refer to 24 - Heating and Air Conditioning/Standard Procedure](#)).
- Replacement of the refrigerant line O-ring seals and gaskets is required anytime a refrigerant line is disconnected. Failure to replace the rubber O-ring seals and metal gaskets may result in a refrigerant system leak.
- Lubricate **NEW** rubber O-ring seals with clean refrigerant oil, then install the O-ring seals and new gaskets to the suction jumper line fittings. Use only the specified O-ring seals as they are made of a special material for the system. Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
- Evacuate the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
- Adjust the refrigerant oil level ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
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PHEV A/C Compressor Bracket to Engine Bolts	28 N·m (21 ft. Lbs.)	–
A/C Compressor to Engine Nuts - 2.0L Engine	Torque Procedure <ol style="list-style-type: none"> 1. Install the nuts and hand tighten 2. Install bolt and hand tighten. 3. Tighten middle nut to 28 N·m (21 ft. Lbs.) 	Tightening Sequence