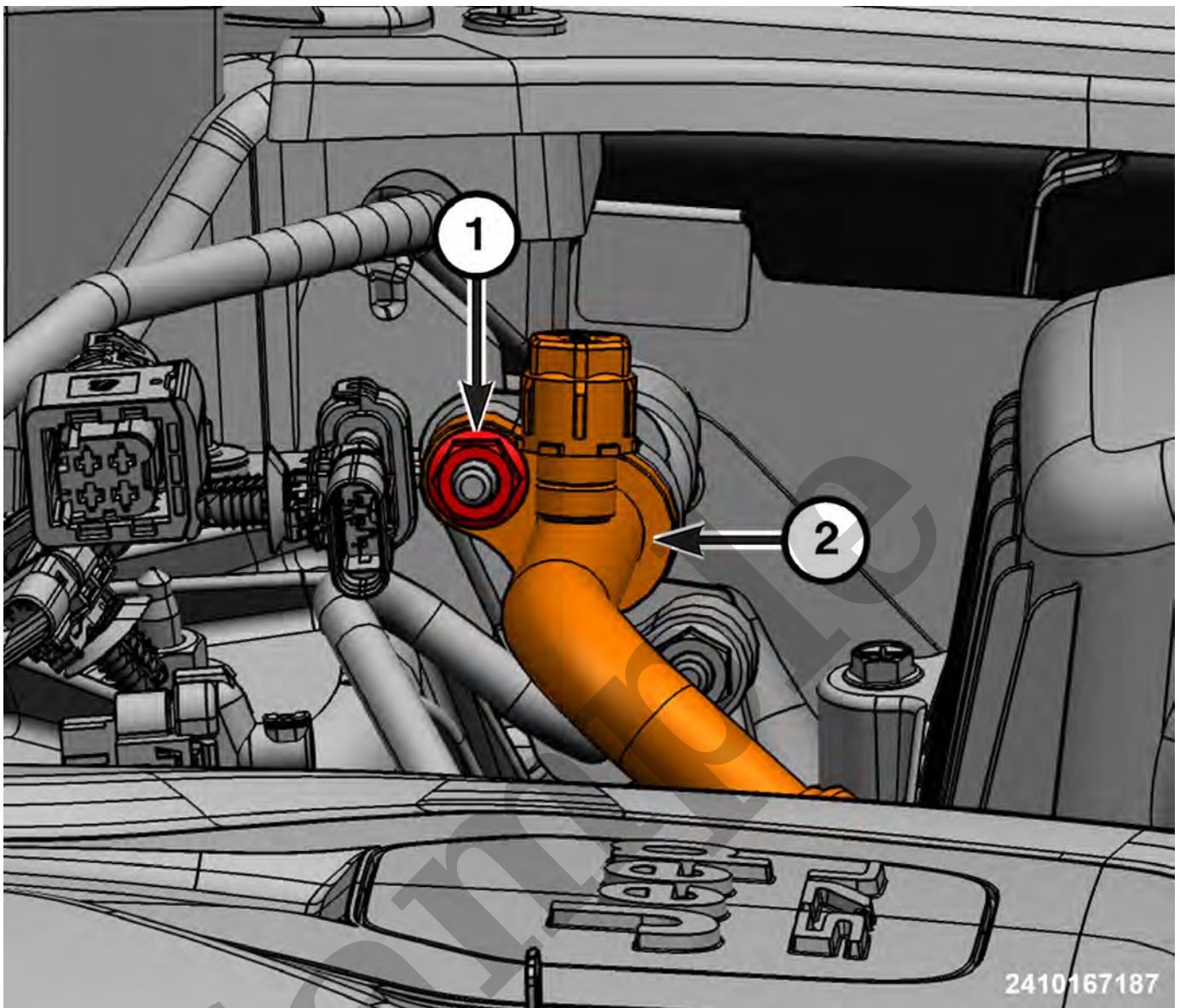


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FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2014 Jeep Wrangler Factory Service Manual

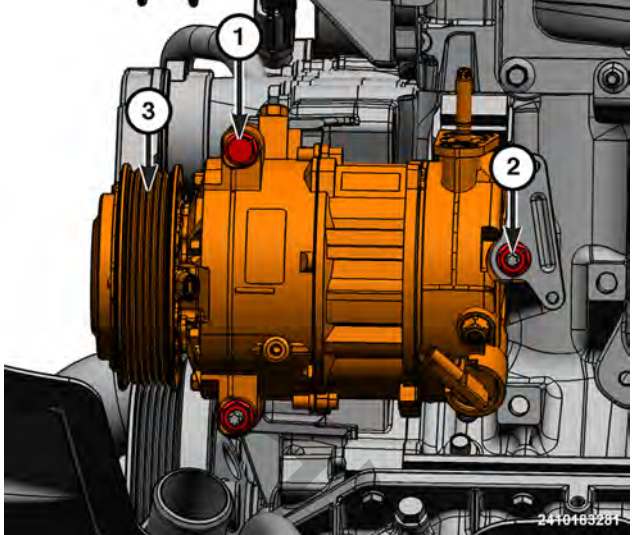
[Go to manual page](#)

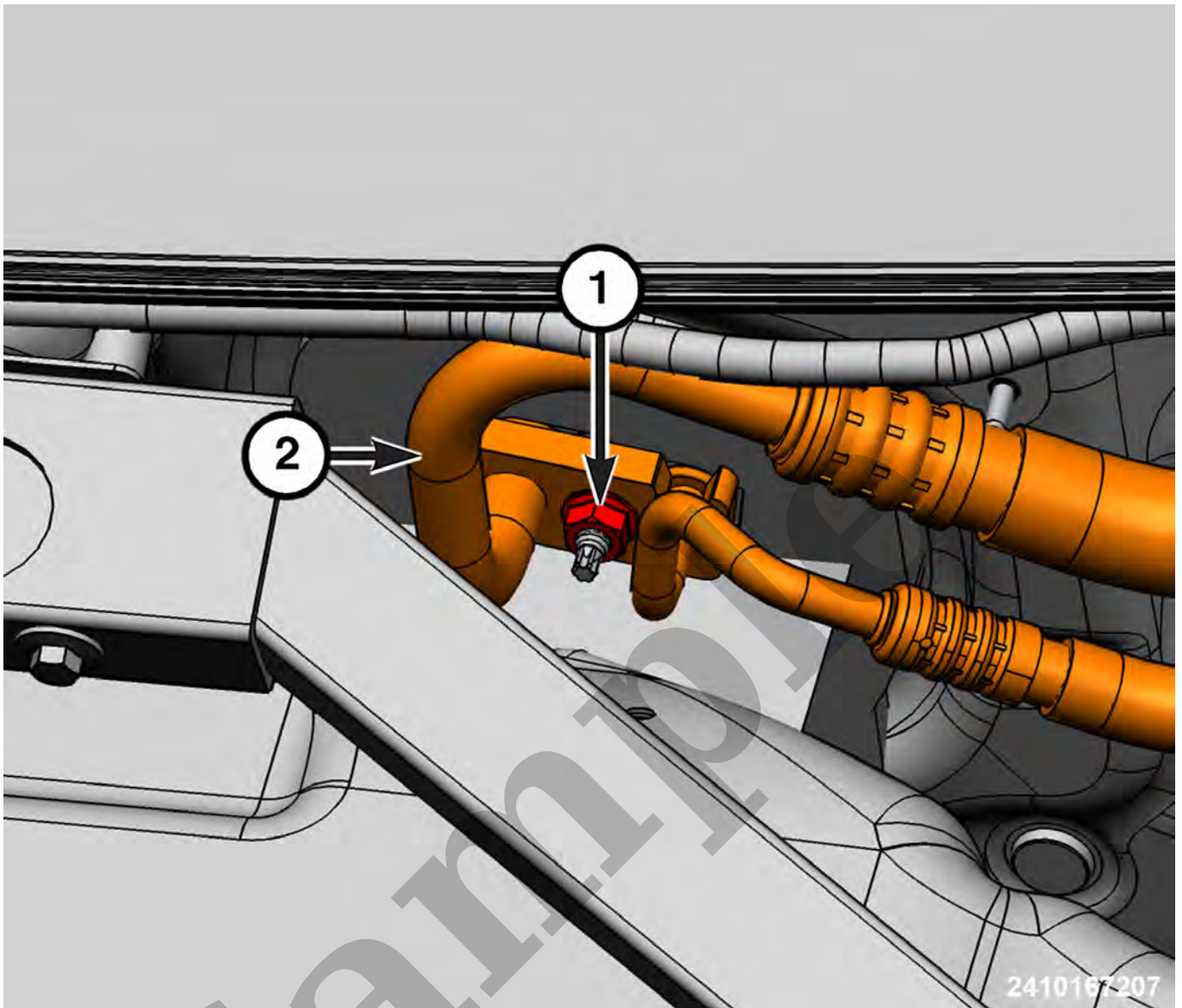


1 - Nut

2 - A/C Suction and Discharge Line Assembly

5. Remove the nut and disconnect the A/C suction and discharge line assembly from the A/C suction and liquid line assembly and position aside. **Discard the O-ring seals and gaskets.**

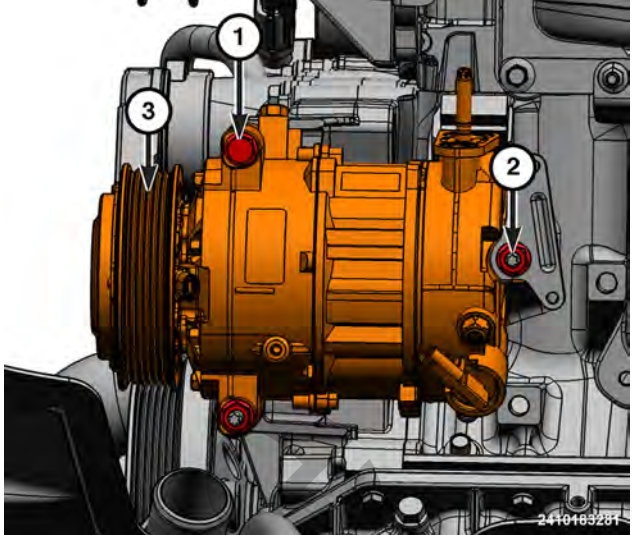
| DESCRIPTION | SPECIFICATION | COMMENT |
|--|---|---|
| | <p>Lbs.)</p> <p>4. Tighten upper bolt to 28 N·m (21 ft. Lbs.)</p> <p>5. Tighten lower nut to 28 N·m (21 ft. Lbs.)</p> |  <p>The image shows a detailed technical drawing of an A/C compressor assembly. Three callout numbers are present: '1' points to an upper bolt on the top of the compressor housing, '2' points to a lower nut on the side, and '3' points to a bolt on the front pulley area. The compressor is shown in a perspective view, highlighting its cylindrical shape and various connection points.</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 - A/C Suction and Liquid Line Assembly

4. Remove the nut and disconnect the A/C suction and liquid line assembly from the expansion valve.
Discard the O-ring seals and gaskets.

| DESCRIPTION | SPECIFICATION | COMMENT |
|--|---|--|
| | <p>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> |  |
| 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.) | - |
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| 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.) | - |

2.0L A/C Compressor

2.0L A/C COMPRESSOR

REMOVAL

WARNING

Review the warnings and cautions for this system before performing the procedure. Failure to follow these instructions may result in serious or fatal injury.

CAUTION

If the A/C compressor is being replaced, be certain to adjust the refrigerant system oil level. Failure to properly adjust the refrigerant oil level will prevent the A/C system from operating as designed and can cause serious A/C compressor damage.

CAUTION

The A/C receiver/drier must be replaced if an internal failure of the A/C compressor has occurred. Failure to replace the A/C receiver/drier can cause serious damage to the replacement A/C compressor.

NOTE

If the A/C compressor is not being replaced, it may be removed from the mounts and repositioned without discharging the refrigerant system or disconnecting the refrigerant lines.

1. Recover the refrigerant from the refrigerant system ([Refer to Heating and Air Conditioning/Standard Procedure](#)).
2. Remove the serpentine belt ([Refer to Engine/Accessory Drive/BELT, Serpentine/Removal and Installation](#)) ([Refer To List 1](#)).

- When replacing multiple A/C system components, see the Refrigerant Oil Capacities chart to determine how much oil should be removed from the new A/C compressor ([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.
- If the A/C compressor is being replaced, the refrigerant oil in the old compressor must first be drained and measured. Then the oil in the new A/C compressor must be drained. Finally, the new compressor must be refilled with the same amount of new refrigerant oil that was drained out of the old compressor. 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 Heating and Air Conditioning/Standard Procedure](#)). Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
- Lubricate **NEW** rubber O-ring seals with clean refrigerant oil, then install the O-ring seals and **NEW** gaskets to the refrigerant line fittings. Use only the specified O-ring seals as they are made of a special material for the R-1234yf 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 1. Install the nuts and hand tighten | Tightening Sequence |

2.0L PHEV A/C Compressor

2.0L PHEV A/C COMPRESSOR

REMOVAL

WARNING

Before performing any diagnostic or service procedure, you must thoroughly read and follow all applicable high voltage safety procedures. You must perform the high voltage power down procedures.

Loss of Isolation (LOI) must be performed before high voltage power up in cases where service has been performed on a high-voltage component or when diagnosing a LOI condition.

Be sure to use the proper safety equipment when working on any high voltage system or component. Failure to do so may result in serious or fatal injury.

Wait a minimum of two minutes after performing the high voltage battery disconnect procedure before attempting to access the high voltage system. Failure to do so may result in serious or fatal injury.

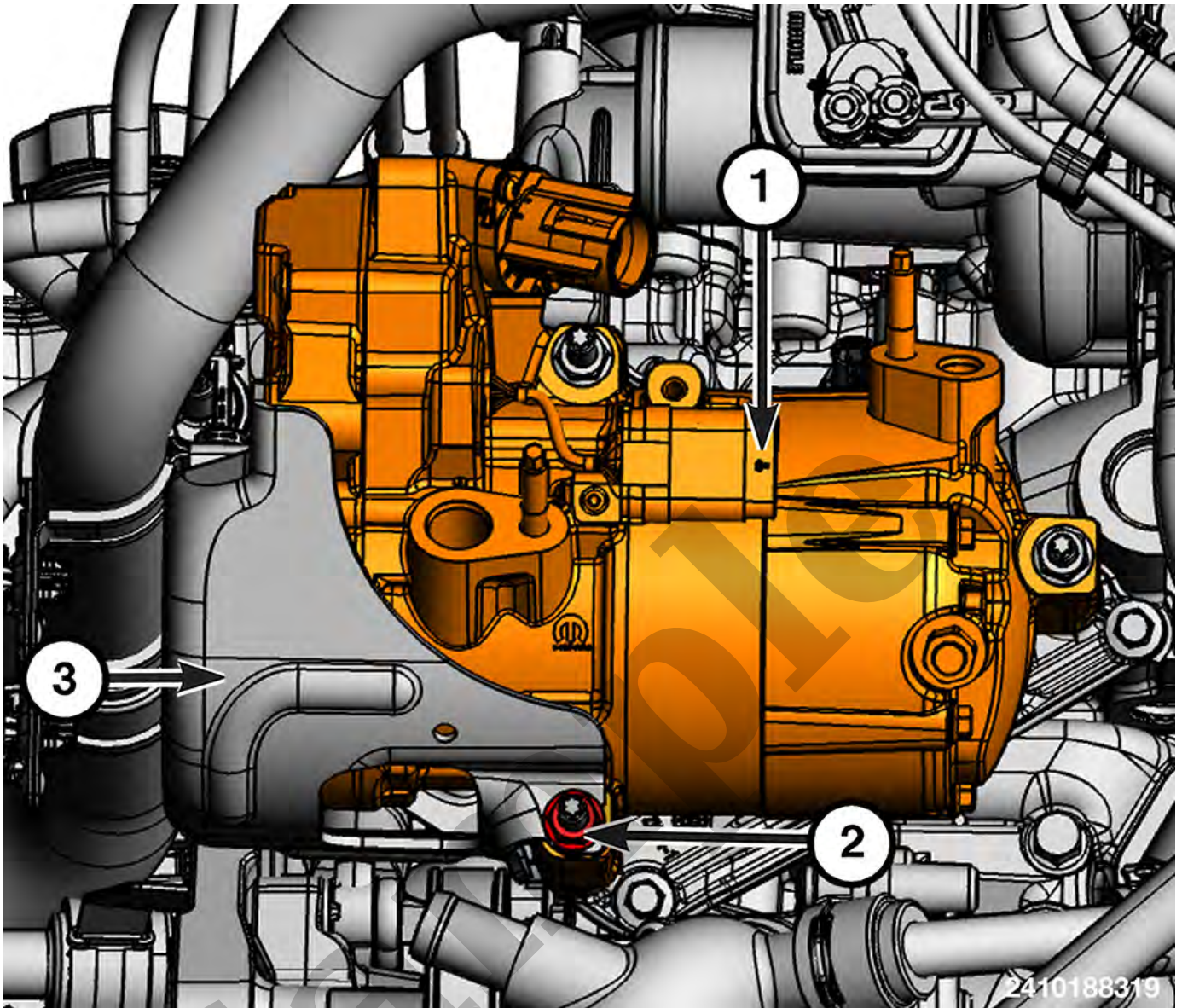
WARNING

Review the warnings and cautions for this system before performing the procedure. Failure to follow these instructions may result in serious or fatal injury.

CAUTION

If the A/C compressor is being replaced, be certain to adjust the refrigerant system oil level. Failure to properly adjust the refrigerant oil level will prevent the A/C system from operating as designed and can cause serious A/C compressor damage.

CAUTION



1 - A/C Compressor

2 - Nut

3 - Blocker Bracket

8. Remove the nut securing the blocker bracket to the A/C compressor and remove the bracket from the compressor.

- 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.
- If the A/C compressor is being replaced, the refrigerant oil in the old compressor must first be drained and measured. Then the oil in the new A/C compressor must be drained. Finally, the new compressor must be refilled with the same amount of new refrigerant oil that was drained out of the old compressor. 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 Heating and Air Conditioning/Standard Procedure](#)). Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
- Lubricate **NEW** rubber O-ring seals with clean refrigerant oil, then install the O-ring seals and **NEW** gaskets to the refrigerant line fittings. Use only the specified O-ring seals as they are made of a special material for the R-1234yf system. Use only refrigerant oil of the type recommended for the A/C compressor in the vehicle.
- Power up the high voltage system ([Refer to Electrified Powertrain System/High Voltage Battery/Standard Procedure](#)).
- 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 1. Install the nuts and hand tighten 2. Install bolt and hand tighten. | Tightening Sequence |