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2014 JEEP Wrangler Rubicon OEM Service and Repair Workshop Manual

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3.6L A/C Compressor

3.6L 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.

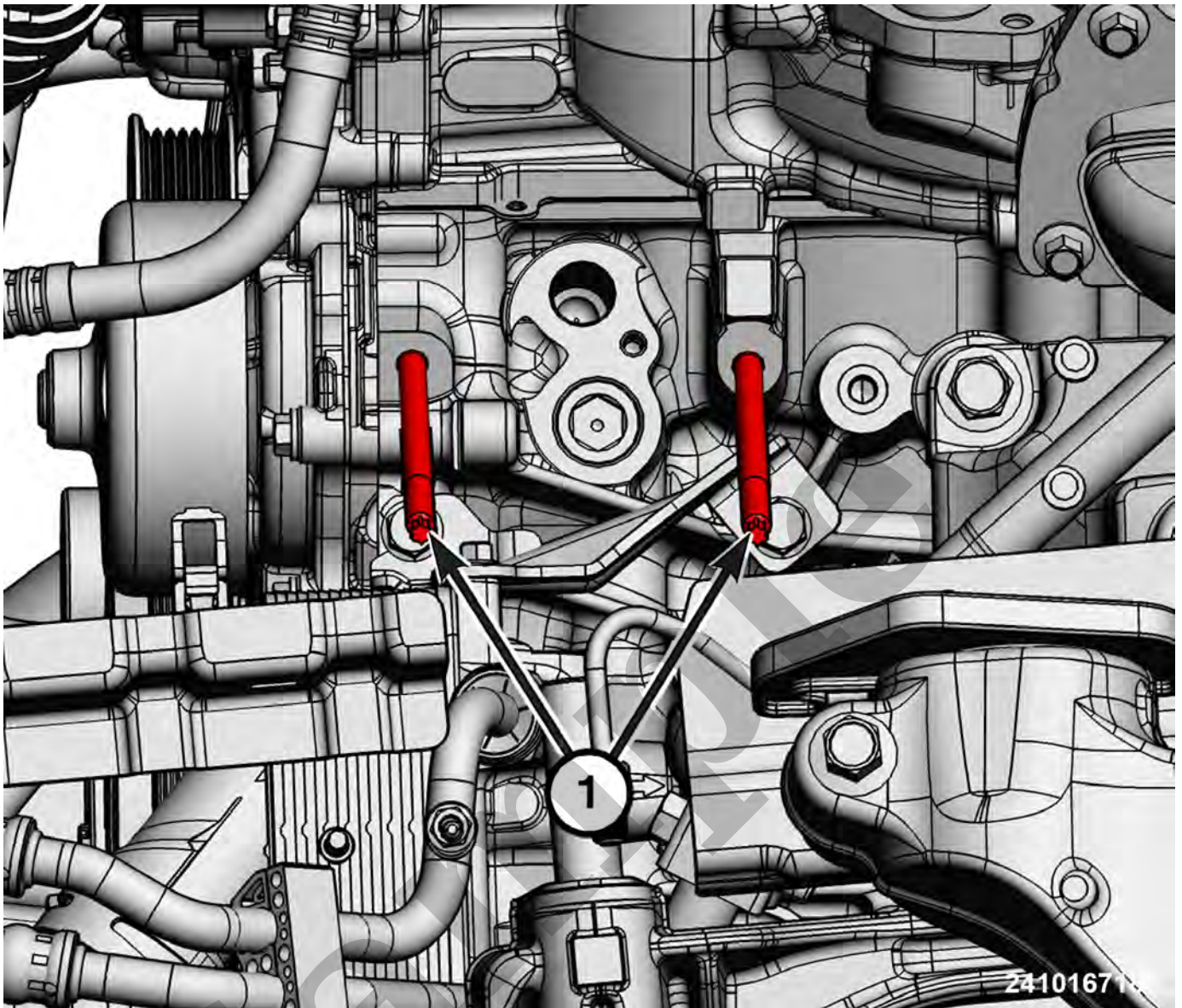
CAUTION

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](#)).



1 - A/C Compressor Mounting Studs

10. If required, remove the A/C compressor mounting studs.

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.

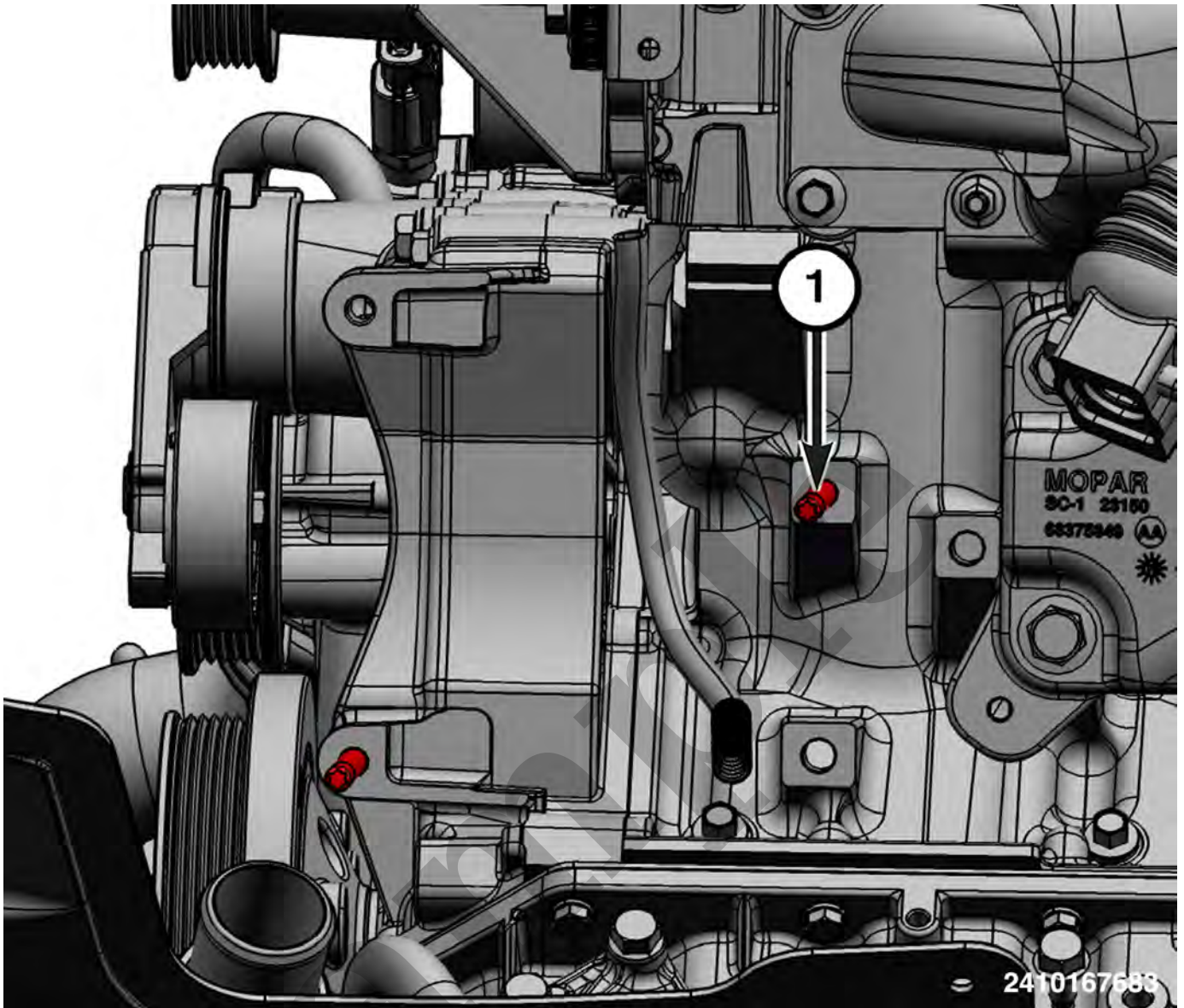
- If the compressor is being replaced the A/C receiver/drier must be replaced ([Refer to Heating and Air Conditioning/Plumbing/DRIER, A/C Receiver/Removal and Installation](#)).
- When replacing multiple A/C system components, see the Refrigerant Oil Capacities chart to determine how much oil should 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

DESCRIPTION	SPECIFICATION	COMMENT
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.)	-
Refrigerant Lines to Refrigerant Lines Nuts	20 N·m (15 Ft. Lbs.)	-

Refer To List:

List 1

- [09 - Engine, 2.0L / Accessory Drive / BELT, Serpentine / Removal and Installation](#)
- [09 - Engine, 3.6L / Accessory Drive / BELT, Serpentine / Removal and Installation](#)
- [09 - Engine, 5.7L / Accessory Drive / BELT, Serpentine / Removal and Installation](#)



1 - A/C Compressor Mounting Studs

9. If required, remove the A/C compressor mounting studs.

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.

- If the compressor is being replaced the A/C receiver/drier must be replaced ([Refer to Heating and Air Conditioning/Plumbing/DRIER, A/C Receiver/Removal and Installation](#)).
- 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

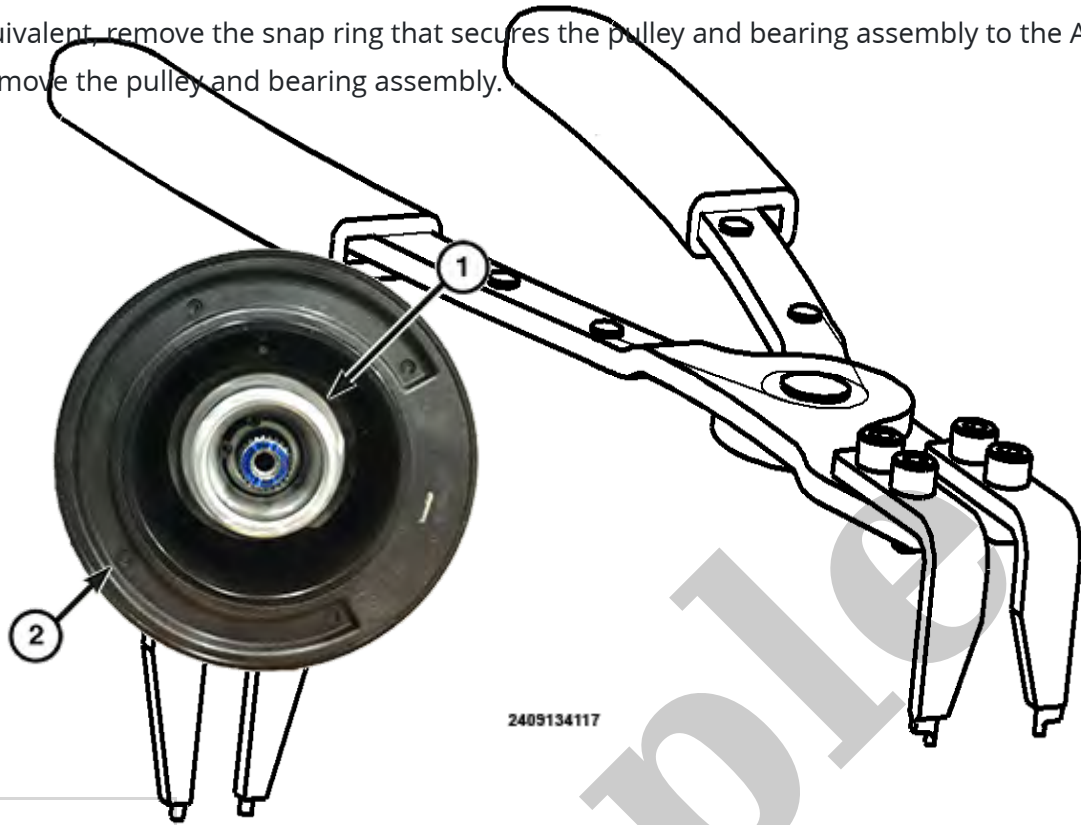
DESCRIPTION	SPECIFICATION	COMMENT
A/C Suction Liquid Line Assembly to Body Nuts	7 N·m (62 In. Lbs.)	-
HVAC Housing to Instrument Panel Support Bolts	5 N·m (44 In. Lbs.)	-
Refrigerant Lines to A/C Compressor Nut(s)	20 N·m (15 Ft. Lbs.)	-
Refrigerant Lines to A/C Condenser Nuts	20 N·m (15 Ft. Lbs.)	-
Refrigerant Lines to A/C Expansion Valve Nut	20 N·m (15 Ft. Lbs.)	-
Refrigerant Lines to Refrigerant Lines Nuts	20 N·m (15 Ft. Lbs.)	-

Refer To List:

List 1

- [09 - Engine, 2.0L / Accessory Drive / BELT, Serpentine / Removal and Installation](#)
- [09 - Engine, 3.6L / Accessory Drive / BELT, Serpentine / Removal and Installation](#)
- [09 - Engine, 5.7L / Accessory Drive / BELT, Serpentine / Removal and Installation](#)

or equivalent, remove the snap ring that secures the pulley and bearing assembly to the A/C compressor and remove the pulley and bearing assembly.

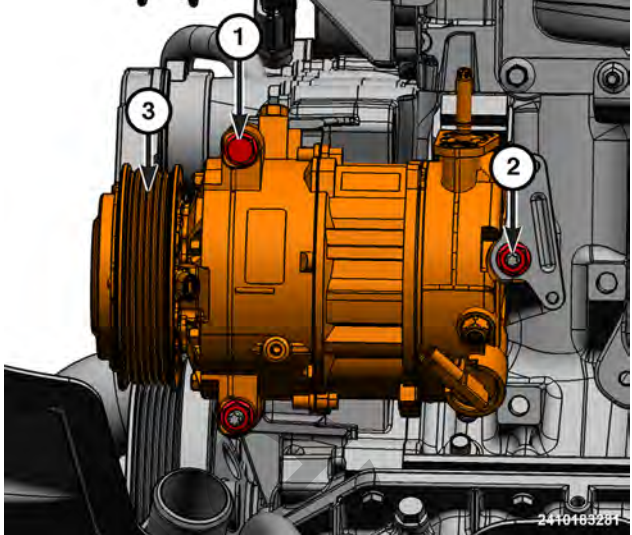


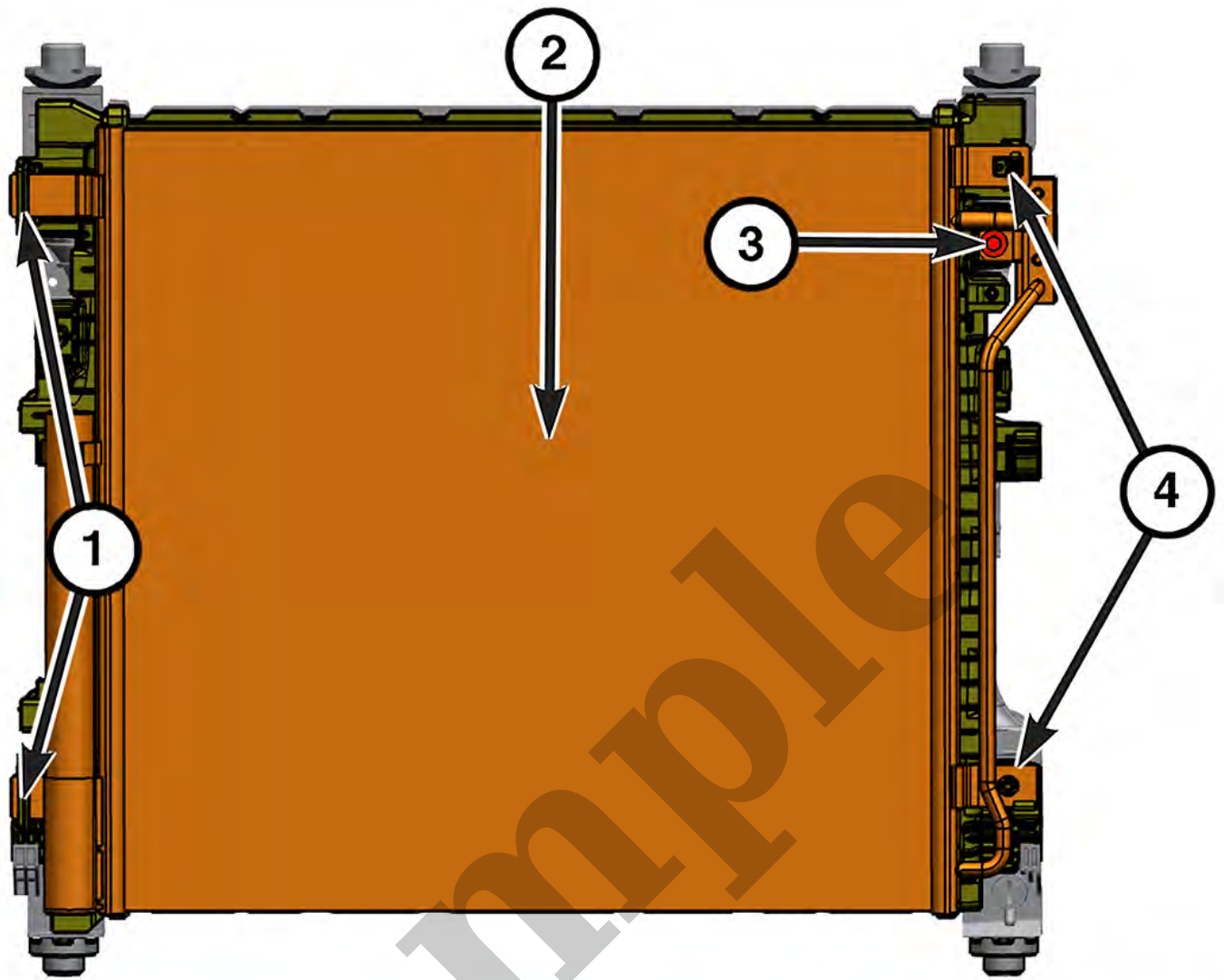
1 - Snap Ring

2 - A/C Clutch Coil

9. Using

Pliers, A/C Snap Ring

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.)	-
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.)	-



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1 - Alignment Tabs
2 - A/C Condenser
3 - A/C Condenser Fastener
4 - Lock Tabs

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

6. Release the lock tabs and remove the A/C condenser from the low temp radiator.

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.

DESCRIPTION	SPECIFICATION	COMMENT
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.)	-
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Refer To List:

List 1

- [09 - Engine, 2.0L / Cooling System / Engine Cooling / RADIATOR / Removal and Installation](#)
- [09 - Engine, 3.6L / Engine Cooling / RADIATOR / Removal and Installation](#)
- [09 - Engine, 5.7L / Engine Cooling / RADIATOR / Removal and Installation](#)