

Component Procedures: Hose/Line HVAC

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Component Procedures: Hose/Line HVAC

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Drier	23147329	Drier	213.12	
Evaporator Core	92229744	Evaporator Core	416.02	
Expansion Valve	92229746	Expansion Valve	141.50	
Suction Hose	22739498	Suction Hose	152.44	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Air Conditioner > Compressor Hose, R&R	B	2.0	0.4
Remove & Replace	Air Conditioner > Liquid Line, R&R	B	0.7	0.4
Remove & Replace	Heater > Heater Pipe, R&R	B	2.3	0.0

Air Conditioning Compressor Hose Seal Replacement (Article 12705)

Removal Procedure

- Disassemble the A/C refrigerant components. Refer to the appropriate repair procedure.
- Cap or tape the A/C refrigerant components.
- Remove the sealing washer (1) from the A/C refrigerant component. Click for full-size image
- Inspect the seal washer for signs of damage to help determine the root cause of the failure.
- Inspect the A/C refrigerant components for damage or burrs. Repair if necessary.
- DISCARD the sealing washer.

Installation Procedure

- Inspect the new sealing washer for any signs of cracks, cuts, or damage. Do not use a damaged sealing washer.
- Remove the cap or tape from the A/C refrigerant components.
- Using a lint-free clean, dry cloth, clean the sealing surfaces of the A/C refrigerant components. Click for full-size image
- Carefully install the NEW sealing washer (1) onto the A/C refrigerant component. The sealing washer (1) must completely bottom against the surface of the fitting.
- Assemble the remaining A/C refrigerant components. Refer to the appropriate repair procedure.

Air Conditioning Compressor Hose Replacement (LFX) (Article 12702)

Removal Procedure

- Recover the refrigerant from the A/C system. Refer to Refrigerant Recovery and Recharging
- Remove the front intake manifold cover. Refer to Intake Manifold Cover Replacement - Front
- Remove the air cleaner assembly . Refer to Air Cleaner Assembly Replacement
- Disconnect the refrigerant pressure sensor electrical connector.
- Remove compressor hose nut (1). Click for full-size image
- Remove A/C compressor hose (2) from thermal expansion valve tube.
- Remove compressor hose bolt (1). Click for full-size image
- Remove A/C compressor hose (2) from compressor.
- Remove the A/C compressor hose nut (1). Click for full-size image
- Remove A/C compressor hose (2) from condenser.
- Remove A/C compressor hose from vehicle and discard sealing washers.

Installation Procedure

- Install new sealing washers to A/C compressor hose. Refer to Air Conditioning Compressor Hose Seal Replacement
- Install A/C compressor hose (2) to condenser. Click for full-size image
- Install A/C compressor hose nut (1) and tighten to 22 Nm (16 lb ft) .
- Install A/C compressor hose (2) to compressor. Click for full-size image
- Install A/C compressor hose (2) to thermal expansion valve tube. Click for full-size image
- Install compressor hose nut (1) and tighten to 22 Nm (16 lb ft) .
- Connect the refrigerant pressure sensor electrical connector.
- Install the air cleaner assembly. Refer to Air Cleaner Assembly Replacement

- Install the front intake manifold cover. Refer to Intake Manifold Cover Replacement - Front
- Evacuate and charge the refrigerant system. Refer to Refrigerant Recovery and Recharging

Air Conditioning Evaporator Thermal Expansion Valve Tube Replacement (LFX) (Article 12717)

Removal Procedure

- Recover the refrigerant from the A/C system. Refer to Refrigerant Recovery and Recharging
- Remove the rear intake manifold cover. Refer to Intake Manifold Cover Replacement - Rear
- Remove the air cleaner assembly . Refer to Air Cleaner Assembly Replacement
- Disconnect the compressor hose from the A/C evaporator thermal expansion valve tube and reposition. Refer to Air Conditioning Compressor Hose Replacement
- Remove A/C evaporator thermal expansion valve tube nut (1). [Click for full-size image](#)
- Remove A/C evaporator thermal expansion valve tube (2) from HVAC module .
- Remove A/C evaporator thermal expansion valve tube (2) from condenser .
- Remove A/C evaporator thermal expansion valve tube clips (1). [Click for full-size image](#)
- Remove A/C evaporator thermal expansion valve tube (2) from body.
- Remove A/C evaporator thermal expansion valve tube from vehicle and discard sealing washers.

Installation Procedure

- Install new sealing washers to A/C evaporator thermal expansion valve tube. Refer to Air Conditioning

Compressor Hose Seal Replacement

- Install A/C evaporator thermal expansion valve tube clips (1) to body. [Click for full-size image](#)
 - Install A/C evaporator thermal expansion valve tube (2) to condenser. [Click for full-size image](#)
 - Install A/C evaporator thermal expansion valve tube nut (1) and tighten to 22 Nm (16 lb ft) .
 - Install A/C evaporator thermal expansion valve tube (2) to thermal expansion valve tube. [Click for full-size image](#)
 - Connect the compressor hose to the A/C evaporator thermal expansion valve tube. Refer to Air Conditioning
- ### Compressor Hose Replacement
- Install the air cleaner assembly. Refer to Air Cleaner Assembly Replacement
 - Install the rear intake manifold cover. Refer to Intake Manifold Cover Replacement - Rear
 - Evacuate and charge the refrigerant system. Refer to Refrigerant Recovery and Recharging