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Fastener Tightening Specifications

Application	Specification	
	Metric	English
Air Conditioning Compressor Bolt	22 N·m	17 lb ft
Air Conditioning Compressor Oil Drain Plug	15 N·m	11 lb ft
Air Conditioning Control Module Bolt	2.5 N·m	23 lb in
Air Conditioning Evaporator Case Bolt	2.5 N·m	23 lb in
Air Conditioning Evaporator Hose Assembly Nut to Air Conditioning Condenser	19 N·m	14 lb ft
Air Conditioning Evaporator Hose Assembly Nut to Air Conditioning Compressor and Condenser Hose	19 N·m	14 lb ft
Air Conditioning Evaporator Hose Assembly Nut to Air Conditioning Evaporator Thermal Expansion Valve	19 N·m	14 lb ft
Air Conditioning Evaporator Thermal Expansion Valve Bolt	15 N·m	11 lb ft
Air Conditioning Refrigerant Pressure Sensor	6 N·m	54 lb in
Air Inlet Housing Bolt	2.5 N·m	23 lb in
Air Outlet Duct Bolt	2.5 N·m	23 lb in
Auxiliary Heater Core Bolts	2.5 N·m	23 lb in
Blower Motor Bolt	4.5 N·m	40 lb in
Blower Motor Cup Bolt	2.5 N·m	23 lb in
Bracket Heater Core Outlet Tube Bolt	2.5 N·m	23 lb in
Condenser Hose And Condenser Hose Bolt	19 N·m	14 lb ft
Floor Air Outlet Duct Bolt	2.5 N·m	23 lb in
Heater and Air Conditioning Evaporator Case Bolt	2.5 N·m	23 lb in
Heater and Blower and Air Conditioning Control Module Bolt	2.5 N·m	23 lb in
Heater Core Cover Bolt	2.5 N·m	23 lb in
Instrument Panel Bracket Bolt	9 N·m	80 lb in
Instrument Panel Tie Bar Bolt	22 N·m	17 lb ft
Instrument Panel Tie Bar Nuts	9 N·m	80 lb in
Mode Control Cam Actuator Screws	2.5 N·m	23 lb in
Refrigerant Pressure Sensor	6 N·m	54 lb in
Service Valve Core	3 N·m	27 lb in
TXV Block Fitting Nut	19 N·m	14 lb in
TXV Mounting Bolts	15 N·m	11 lb ft

Refrigerant System Capacities

Engine	Specification	
	Metric	English
R-134a		
Refrigerant Charge	0.650 kg	1.43 lb

Refrigerant Recovery and Recharging

Special Tools

GE-45037 A/C Oil Injector

For equivalent regional tools, refer to [Special Tools](#).

Refrigerant Recovery and Recharging

Warning: To prevent personal injury, avoid breathing A/C Refrigerant and lubricant vapor or mist. Work in a well ventilated area. To remove refrigerant from the A/C System, use service equipment designed for recovery that is certified to meet the requirements of the appropriate SAE Standards. If an accidental system discharge occurs, ventilate the work area before continuing service. Additional health and safety information may be obtained from the refrigerant, refrigerant recovery, and lubricant manufacturers.

Warning: For personal protection, goggles and lint-free gloves should be worn and a clean cloth wrapped around fittings, valves, and connections when doing work that includes opening the refrigerant system. If refrigerant comes in contact with any part of the body severe frostbite and personal injury can result. The exposed area should be flushed immediately with cold water and prompt medical help should be obtained.

Caution: R-134a is the only approved refrigerant for use in this vehicle. The use of any other refrigerant may result in poor system performance or component failure.

Caution: To avoid system damage use only R-134a dedicated tools when servicing the A/C system.

Caution: Do not mix refrigerant oils. Use of incorrect refrigerant oil will cause compressor failure.

Caution: R-12 refrigerant and R-134a refrigerant must never be mixed, even in the smallest of amounts, as they are incompatible with each other. If the refrigerants are mixed, compressor failure is likely to occur. Refer to the manufacturer instructions included with the service equipment before servicing.

Note: For the use of the correct refrigerant oil, refer to electronic parts catalog.

The AC filling device is a complete air conditioning service center for R-134a. The AC filling device recovers, recycles, evacuates and recharges A/C refrigerant quickly, accurately and automatically. The unit has a display screen that contains the function controls and displays prompts that will lead the technician through the recover, recycle, evacuate and recharge operations. R-134a is recovered into and charged out of an internal storage vessel. The AC filling device automatically replenishes this vessel from an external source tank in order to maintain a constant volume of A/C refrigerant.

The AC filling device has a built in A/C refrigerant identifier that will test for contamination, prior to recovery and will notify the technician if there are foreign gases present in the A/C system. If foreign gases are present, the AC filling device will not recover the refrigerant from the A/C system.

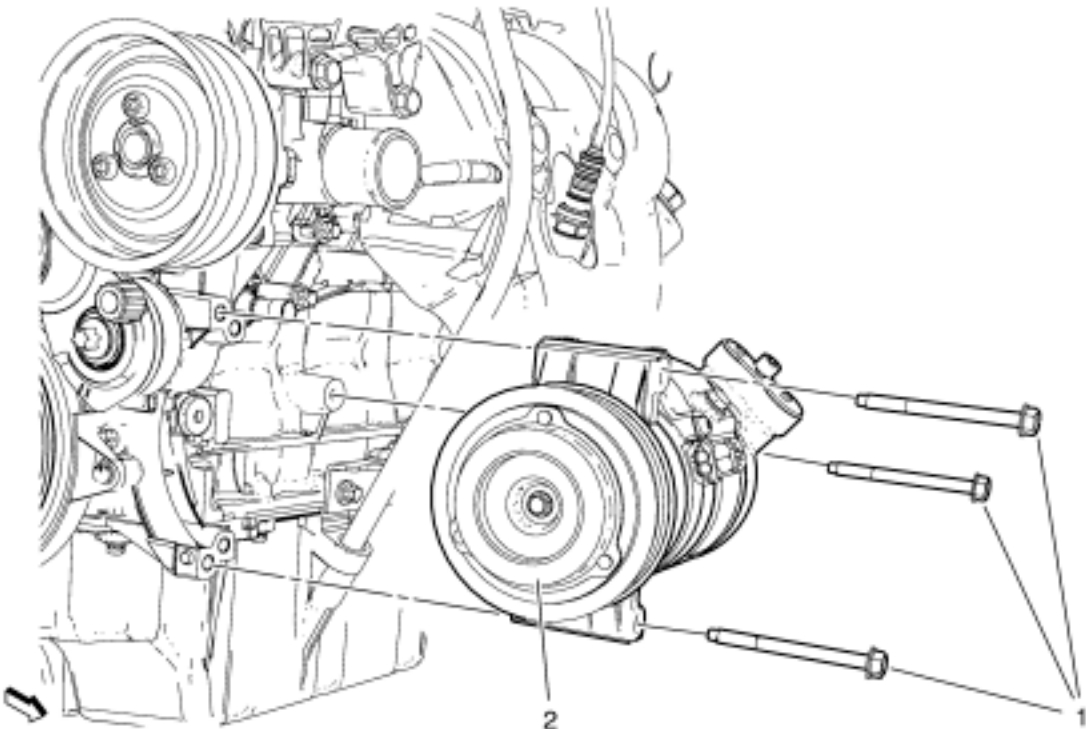
The AC filling device also features automatic air purge, single pass recycling and an automatic oil drain.

Refer to the AC filling device manual for operation and setup instruction. Always recharge the A/C System with the proper amount of R-134a. Refer to [Refrigerant System Capacities](#)

A/C Refrigerant System Oil Charge Replenishing

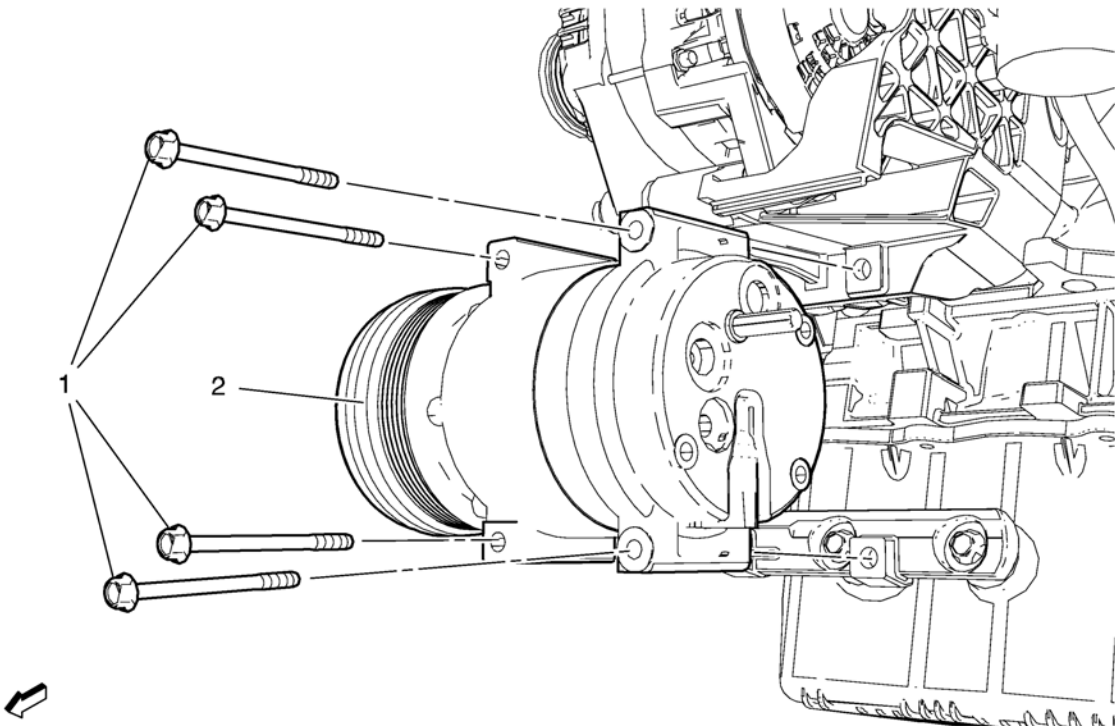
If oil was removed from the A/C system during the recovery process or due to component replacement, the oil must be replenished. Oil can be injected into a charged system using GE-45037 injector . For the proper quantities of oil to add to the A/C refrigerant system, refer to [Refrigerant System Capacities](#).

Air Conditioning Compressor Replacement (1.6L LDE, LXV, and 1.8L 2H0)



Callout	Component Name
Preliminary Procedures - Recover the refrigerant. Refer to Refrigerant Recovery and Recharging. - Remove drive belt. Refer to Drive Belt Replacement. - Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle. - Disconnect the A/C compressor electrical connector. - Remove compressor hose assembly. Refer to Air Conditioning Compressor and Condenser Hose Replacement.	
1	A/C Compressor Bolt (Qty: 3) Caution: Refer to Fastener Caution in the Preface section. Tighten 22 N·m (16 lbf ft)
2	A/C Compressor Assembly Procedure - Use a low viscosity, poly-alkylene glycol (PAG) oil. Use of the incorrect oil can result in compressor failure. - When replacing the A/C compressor, balance the compressor oil. Refer to Air Conditioning Compressor Oil Balancing. - Using <i>GE 39400-A</i> detector leak test A/C compressor fittings. Special Tools <i>GE 39400-A</i> Electronic Halogen Leak Detector For equivalent regional tools, refer to Special Tools.

Air Conditioning Compressor Replacement (1.6L LXT)

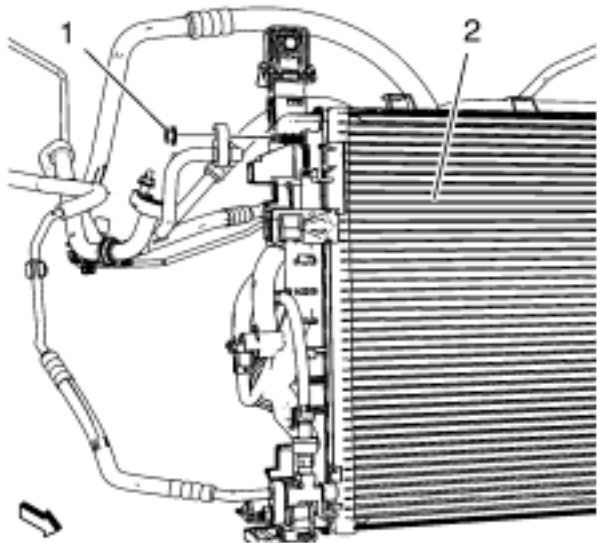


Callout	Component Name
Preliminary Procedures - Recover the refrigerant. Refer to Refrigerant Recovery and Recharging. - Remove drive belt. Refer to Generator and Air Conditioning Compressor and Power Steering Pump Belt Replacement. - Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle. - Disconnect the A/C compressor electrical connector. - Remove compressor hose assembly. Refer to Air Conditioning Compressor and Condenser Hose Replacement.	
1	A/C Compressor Bolt (Qty: 4) Caution: Refer to Fastener Caution in the Preface section. Tip The graphic shows the engine without attaching parts for better clarity. Tighten 22 N·m (17 lb ft)
2	A/C Compressor Assembly Procedure - Use a low viscosity, polyalkylene glycol (PAG) oil. Use of the incorrect oil can result in compressor failure. - When replacing the A/C compressor, balance the compressor oil. Refer to Air Conditioning Compressor Oil Balancing. - Using <i>GE 39400</i> detector leak test A/C compressor fittings. Special Tools <i>GE 39400</i> Electronic Halogen Leak Detector

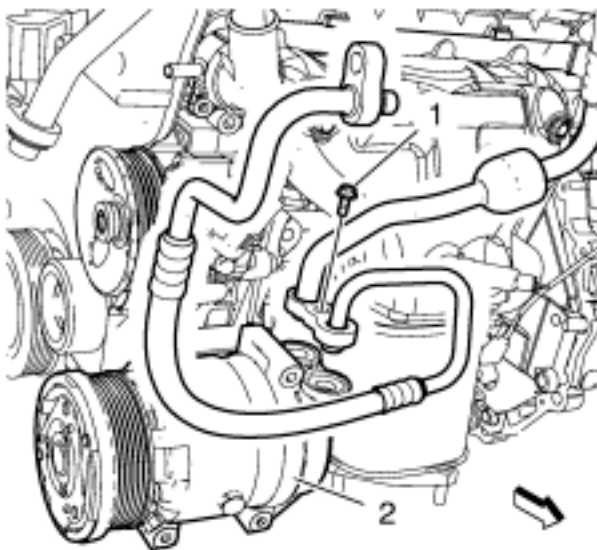
Air Conditioning Compressor and Condenser Hose Replacement (1.6L LXT)

Removal Procedure

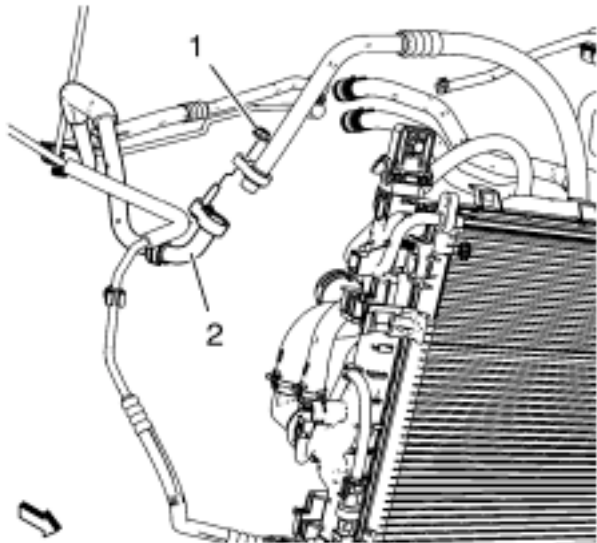
1. Recover the refrigerant. Refer to [Refrigerant Recovery and Recharging](#).
2. Remove front bumper fascia. Refer to [Front Bumper Fascia Replacement](#).



3. Remove A/C compressor and condenser hose nut (1) from A/C condensor (2).



4. Remove A/C compressor and condenser hose bolt (1) from A/C compressor (2).



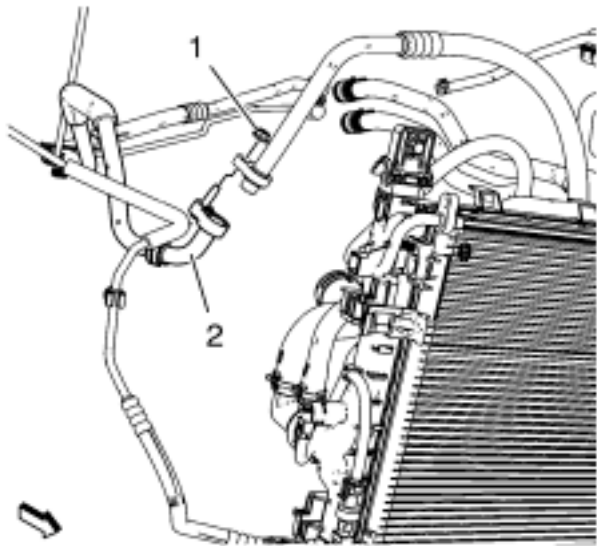
5. Remove A/C compressor and condenser hose nut (1) from refrigerant hose (2).
6. Remove A/C compressor and condenser hose.

Installation Procedure

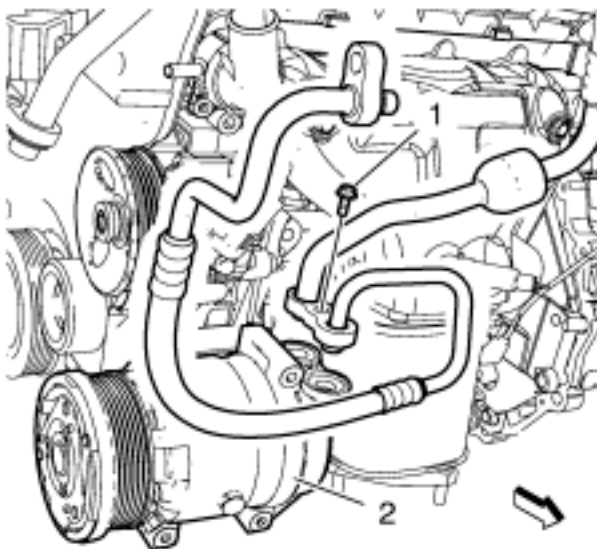
Note: Use NEW O-ring seals. Refer to [O-Ring Replacement](#).

1. Install A/C compressor and condenser hose.

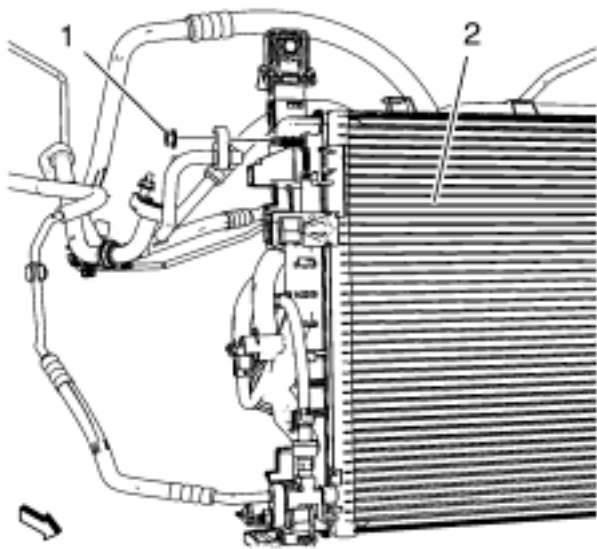
Caution: Refer to [Fastener Caution](#) in the Preface section.



2. Install A/C compressor and condenser hose nut (1) to refrigerant hose (2). Tighten nut to **19 N·m (14 lb ft)**.



3. Install A/C compressor and condenser hose bolt (1) to A/C compressor (2). Tighten bolt to **19 N·m (14 lb ft)**.

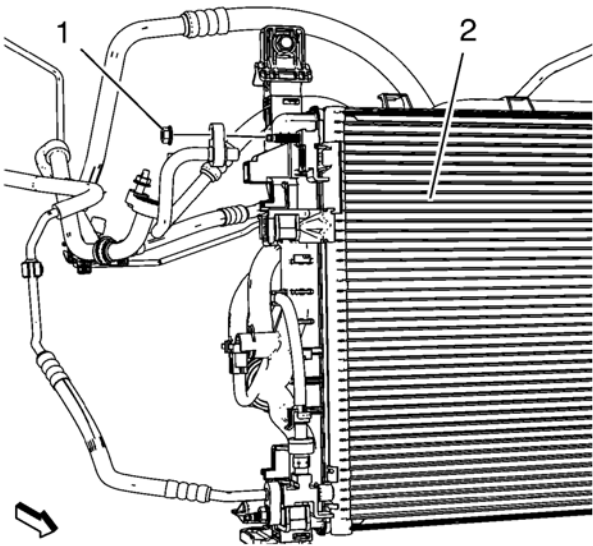


4. Install air conditioning compressor and condenser hose nut (1) to A/C condenser (2). Tighten nut to **19 N·m (14 lb ft)**.
5. Install front bumper fascia. Refer to [Front Bumper Fascia Replacement](#).
6. Evacuate and charge the refrigerant system. Refer to [Refrigerant Recovery and Recharging](#).

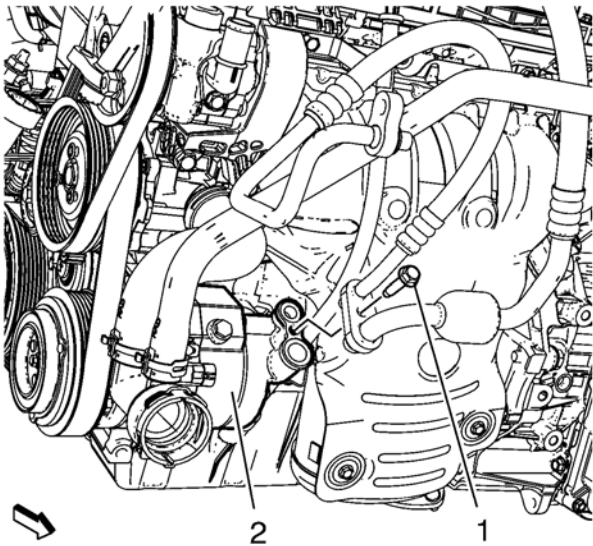
Air Conditioning Compressor and Condenser Hose Replacement (1.6L LDE, LXV, and 1.8L 2H0)

Removal Procedure

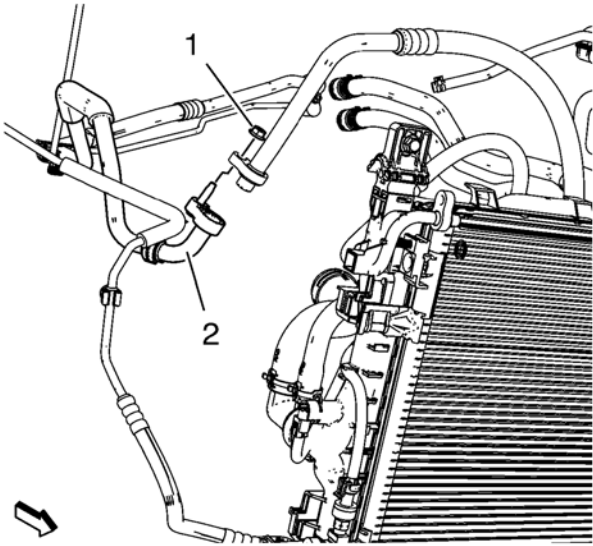
1. Recover the refrigerant. Refer to [Refrigerant Recovery and Recharging](#)
2. Remove front bumper fascia. Refer to [Front Bumper Fascia Replacement](#)



3. Remove A/C compressor and condenser hose nut (1) from A/C condenser (2).



4. Remove A/C compressor and condenser hose bolt (1) from A/C compressor (2).



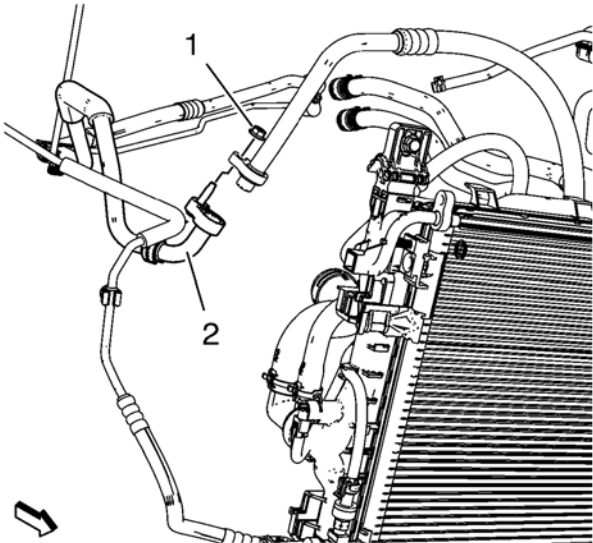
5. Remove A/C compressor and condenser hose nut (1) from refrigerant hose (2).
6. Remove A/C compressor and condenser hose.

Installation Procedure

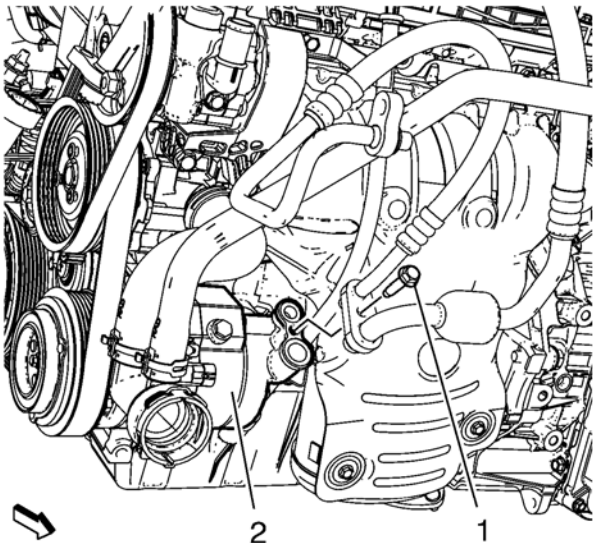
Note: Use NEW O-ring seals. Refer to [Air Conditioning O-Ring Seal Replacement](#)

1. Install A/C compressor and condenser hose.

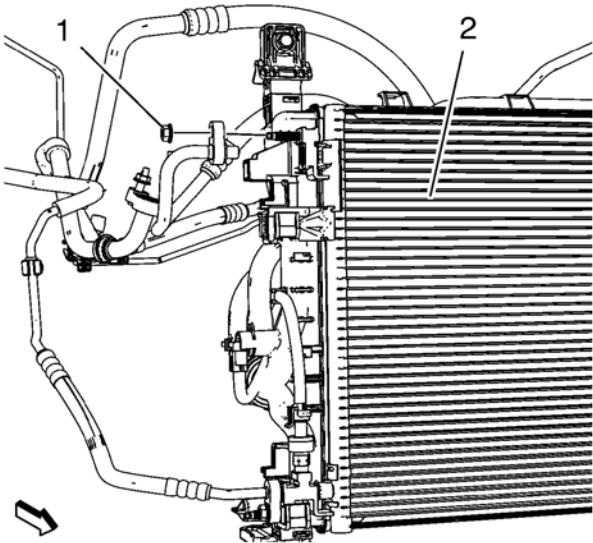
Caution: Refer to [Fastener Caution](#) in the Preface section.



2. Install A/C compressor and condenser hose nut (1) to refrigerant hose (2). Tighten nut to **19 N·m (14 lb ft)**.

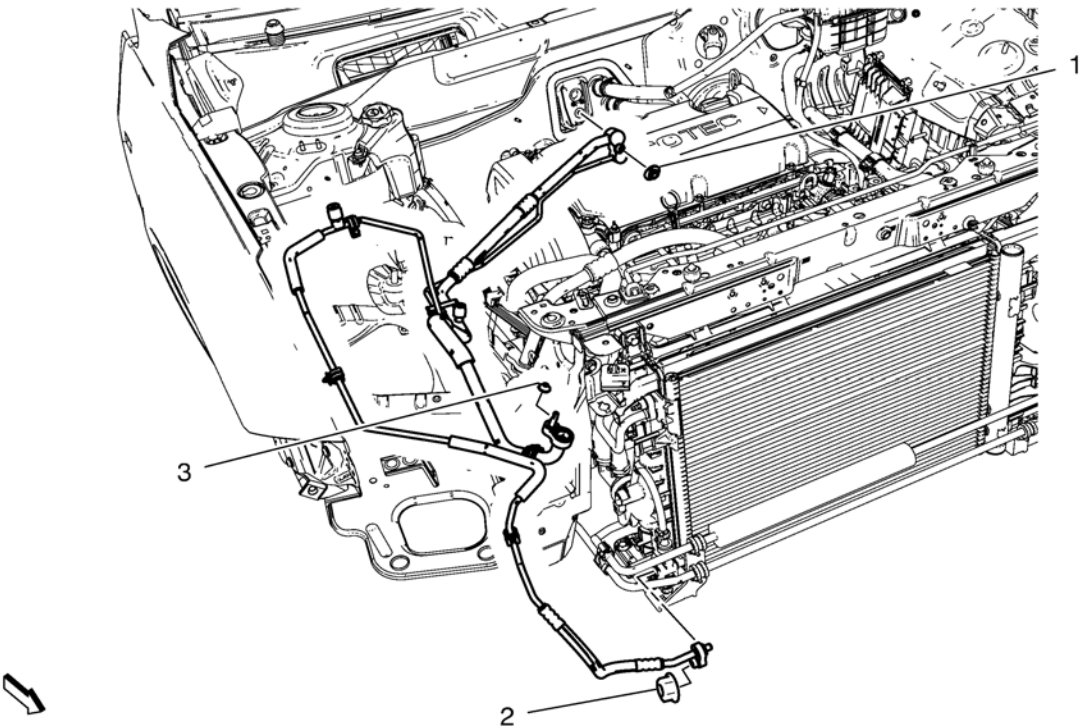


3. Install A/C compressor and condenser hose bolt (1) to A/C compressor (2). Tighten bolt to **19 N·m (14 lb ft)**.



4. Install A/C compressor and condenser hose nut (1) to A/C condenser (2). Tighten nut to **19 N·m (14 lb ft)**.
5. Install front bumper fascia. Refer to [Front Bumper Fascia Replacement](#)
6. Evacuate and charge the refrigerant system. Refer to [Refrigerant Recovery and Recharging](#)

Air Conditioning Evaporator Hose Assembly Replacement

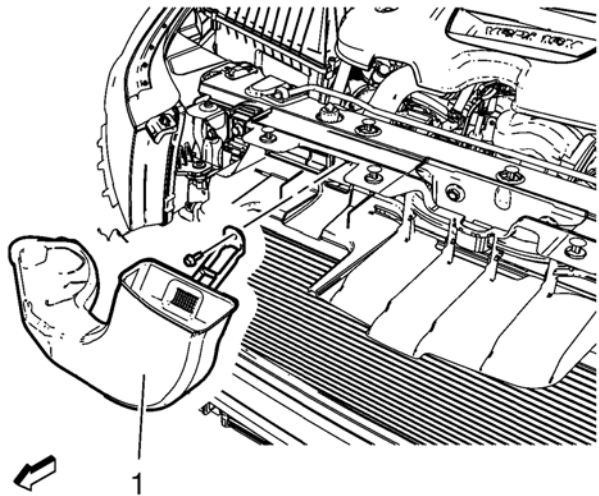


Callout	Component Name
Preliminary Procedures 1. Recover the refrigerant. Refer to Refrigerant Recovery and Recharging. 2. Remove the headlamp - right side. Refer to Headlamp Replacement. 3. Loosen power steering fluid reservoir screw. 4. Remove brake pipes from the dash lower extension panel. 5. Remove engine mount. Refer to Engine Mount Replacement.	
1	Air Conditioning Evaporator Hose Assembly Nut to Air Conditioning Evaporator Thermal Expansion Valve Caution: Refer to Fastener Caution in the Preface section. Tighten 19 N·m (14 lb ft)
2	Air Conditioning Evaporator Hose Assembly Nut to Air Conditioning Condenser Tighten 19 N·m (14 lb ft)
3	Air Conditioning Evaporator Hose Assembly Nut to Air Conditioning Compressor and Condenser Hose Tighten 19 N·m (14 lb ft)

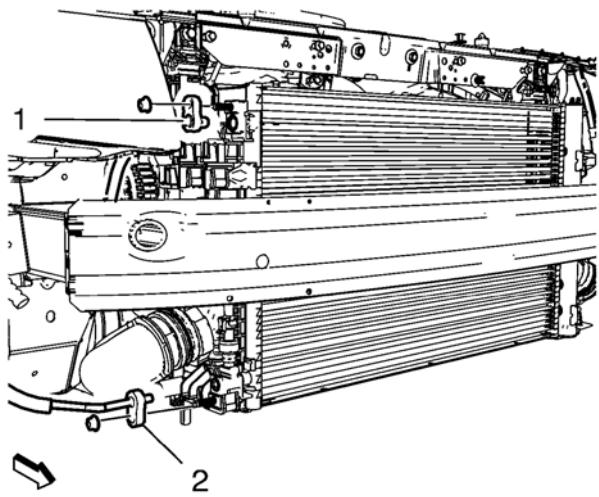
Air Conditioning Condenser Replacement (1.6L LDE, LXT, LXV, and 1.8L 2H0)

Removal Procedure

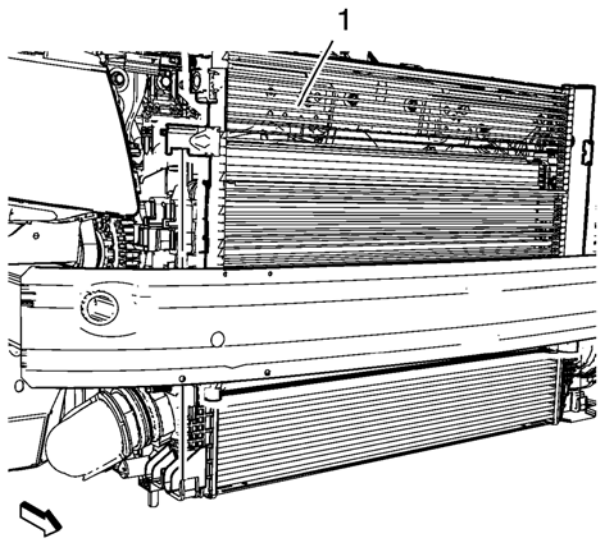
1. Recover the refrigerant. Refer to [Refrigerant Recovery and Recharging](#).
2. Disconnect battery negative cable. Refer to [Battery Negative Cable Disconnection and Connection](#).
3. Remove front bumper fascia. Refer to [Front Bumper Fascia Replacement](#).



4. Remove air intake duct (1).
5. Remove radiator support replacement. Refer to [Radiator Support Replacement](#).
6. Remove A/C compressor and condenser hose from condenser. Refer to [Air Conditioning Compressor and Condenser Hose Replacement](#).

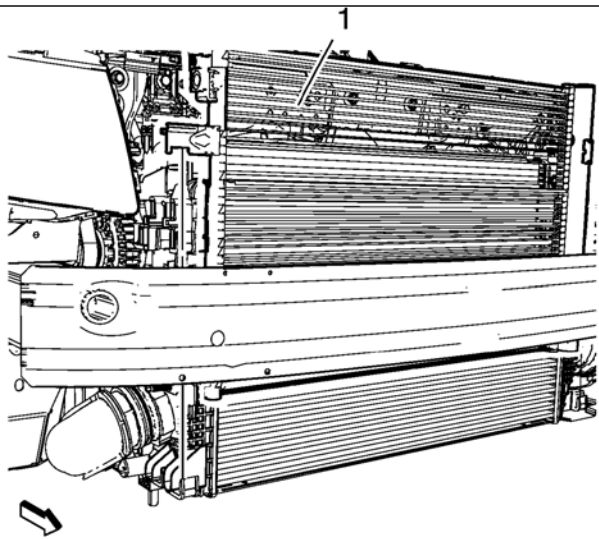


7. Remove condenser hose bolt and condenser hose (1, 2).
8. Remove A/C refrigerant pressure sensor. Refer to [Air Conditioning \(A/C\) Refrigerant Pressure Sensor Replacement](#).



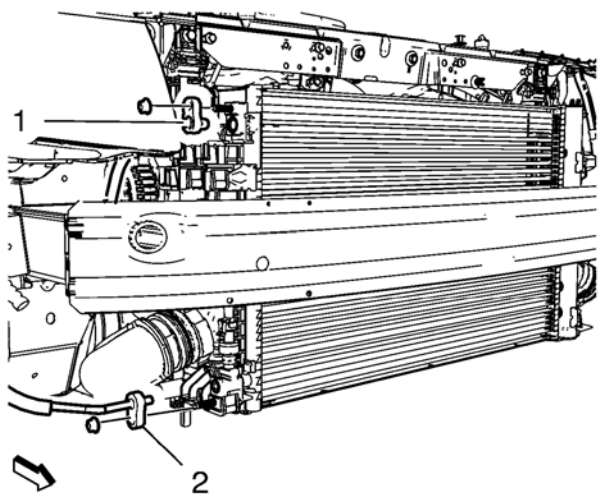
9. Remove condenser.

Installation Procedure

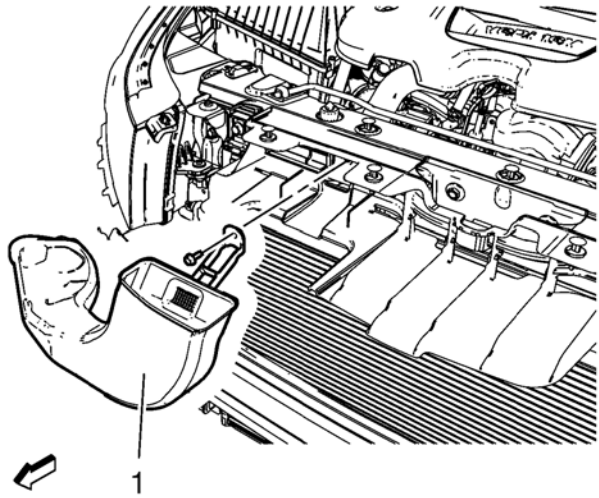


- 1. Install condenser.
- 2. Install A/C refrigerant pressure sensor. Refer to [Air Conditioning \(A/C\) Refrigerant Pressure Sensor Replacement](#).

Caution: Refer to [Fastener Caution](#) in the Preface section.

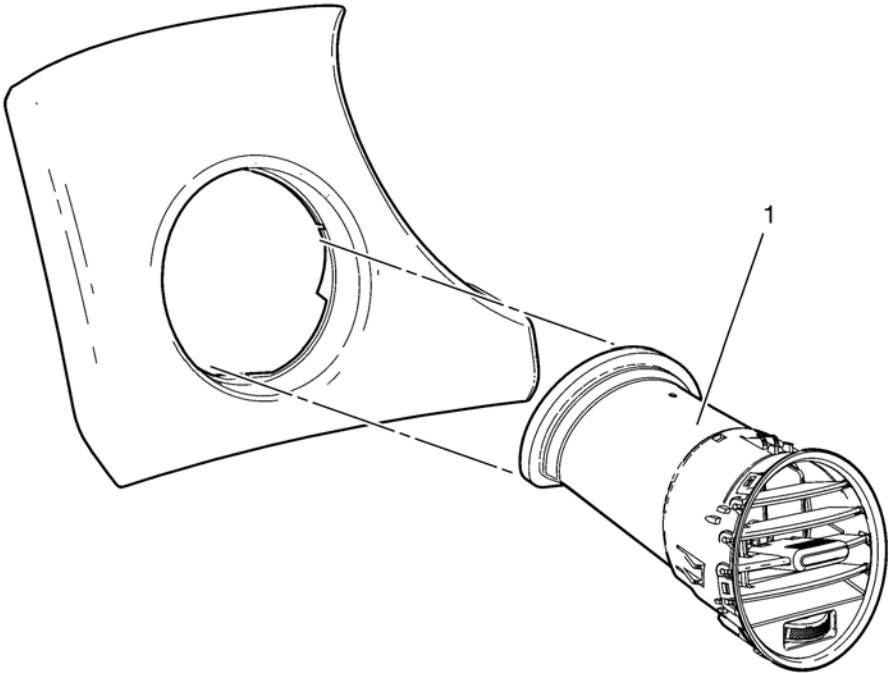


- 3. Install condenser hose (1, 2) and condenser hose bolt and tighten to **19 N·m (15 lb ft)**.
- 4. Install A/C compressor and condenser hose to condenser. Refer to [Air Conditioning Compressor and Condenser Hose Replacement](#).
- 5. Install radiator support. Refer to [Radiator Support Replacement](#).



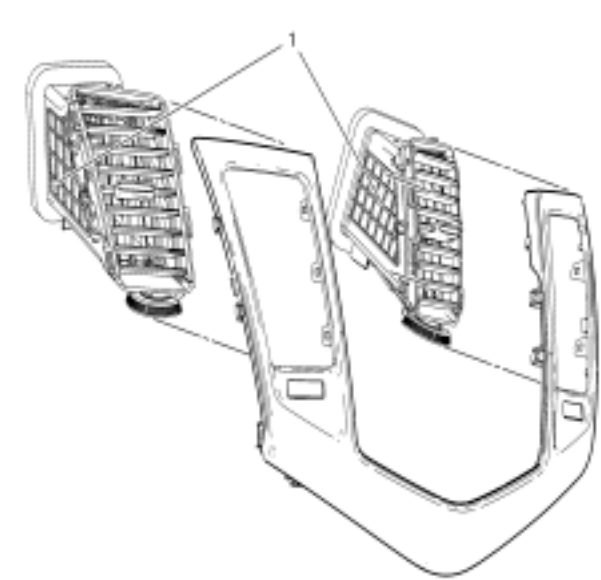
- 6. Install air intake duct (1).
- 7. Install front bumper fascia. Refer to [Front Bumper Fascia Replacement](#).
- 8. Connect battery negative cable. Refer to [Battery Negative Cable Disconnection and Connection](#).
- 9. Evacuate and charge the refrigerant system. Refer to [Refrigerant Recovery and Recharging](#).

Instrument Panel Outer Air Outlet Replacement - Left Side



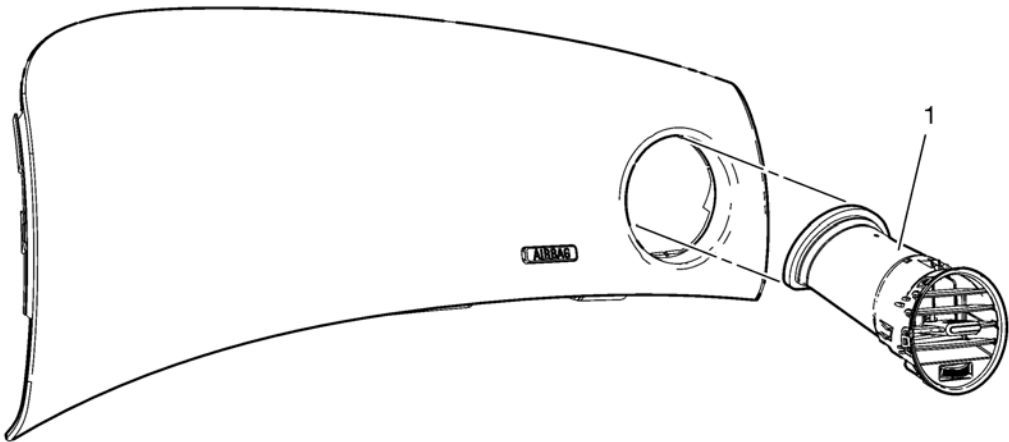
Callout	Component Name
Preliminary Procedure 1. Remove instrument panel lower trim pad cover - left side. Refer to Instrument Panel Lower Trim Pad Cover Replacement. 2. Remove instrument panel cluster trim plate. Refer to Instrument Panel Cluster Trim Plate Replacement. 3. Remove instrument panel cluster lower trim plate. Refer to Instrument Panel Cluster Lower Trim Plate Replacement. 4. Remove instrument panel upper trim panel. Refer to Instrument Panel Upper Trim Panel Replacement - Left Side.	
1	Instrument Panel Outer Air Outlet Assembly Procedure 1. Remove instrument panel outer air outlet duct left side. 2. Remove clip (Qty: 4).

Instrument Panel Center Air Outlet Replacement



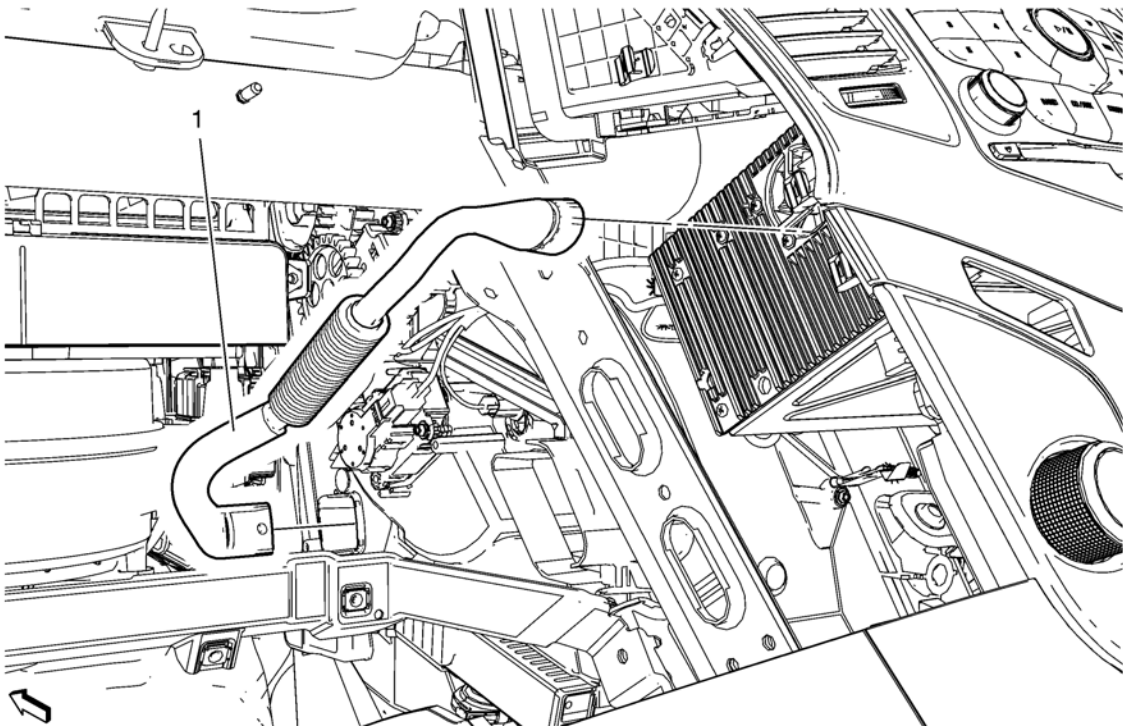
Callout	Component Name
Preliminary Procedure Remove instrument panel center upper molding (2). Refer to Instrument Panel Center Upper Molding Replacement .	
1	Instrument Panel Center Air Outlet

Instrument Panel Outer Air Outlet Replacement - Right Side



Callout	Component Name
Preliminary Procedure Remove instrument panel upper trim panel. Refer to Instrument Panel Upper Trim Panel Replacement - Right Side .	
1	Instrument Panel Outer Air Outlet Assembly Procedure 1. Remove instrument panel outer air outlet duct right side. 2. Remove clip (Qty: 4).

Radio Cooling Duct Replacement (Right Hand Drive)

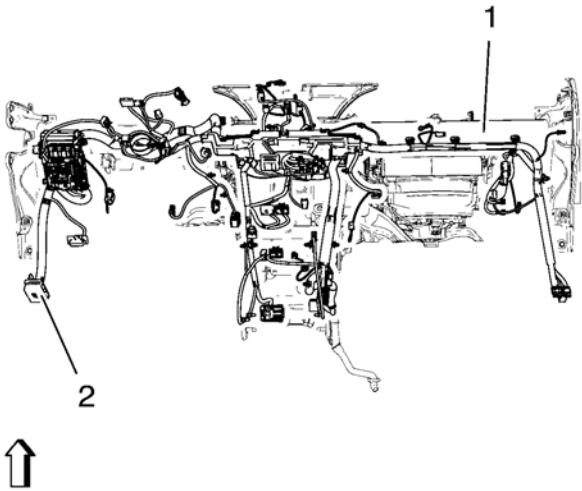


Callout	Component Name
Preliminary Procedure 1. Remove IP Compartment. Refer to Instrument Panel Compartment Replacement. 2. Remove floor air outlet duct - left side. Refer to Floor Air Outlet Duct Replacement - Left Side.	
1	Radio Cooling Duct Procedure Remove radio cooling duct.

Floor Air Outlet Replacement

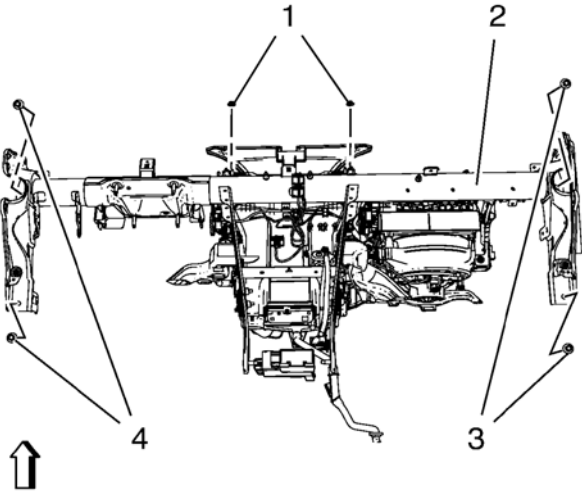
Removal Procedure

1. Remove the instrument panel assembly. Refer to [Instrument Panel Assembly Replacement](#).

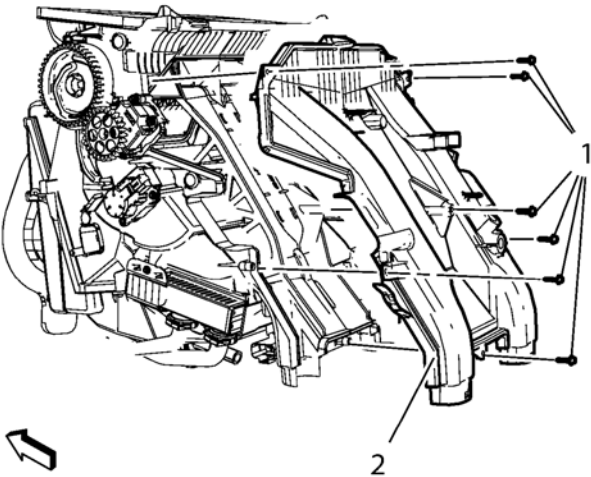


2. Remove the instrument panel wiring harness (2) from the instrument panel tie bar (1).

Disconnect the electrical connectors.



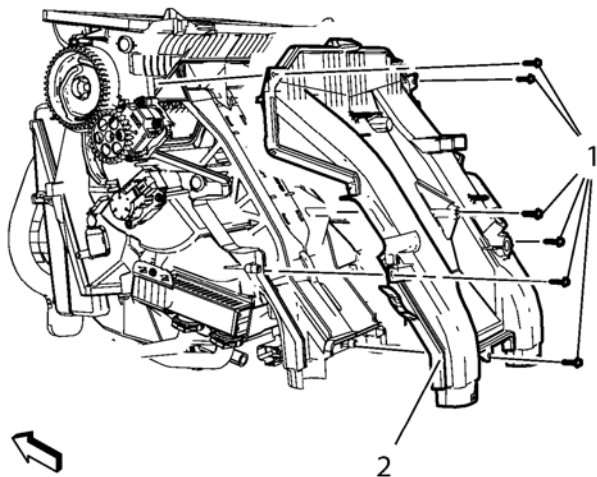
3. Remove the instrument panel tie bar (2).
 - Remove the 4 instrument panel tie bar bolts (3, 4).
 - Remove the 2 instrument panel tie bar nuts (1).
4. Remove the heater wiring harness.



5. Remove the floor air outlet (2).

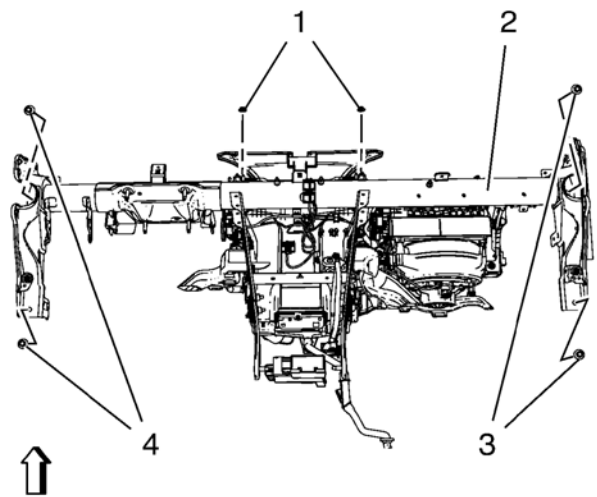
Remove the 6 floor air outlet bolts (1).

Installation Procedure

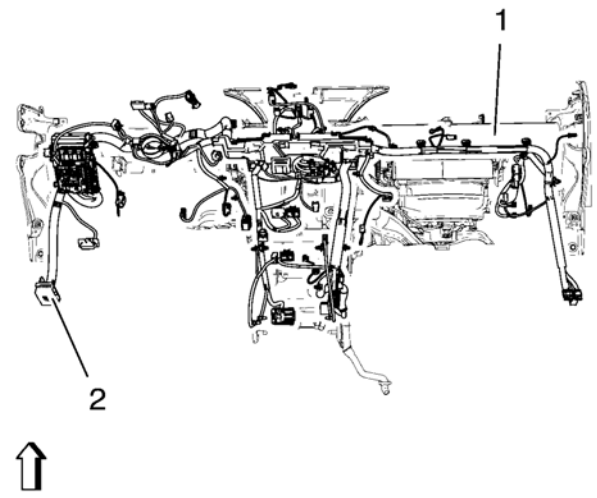


Caution: Refer to [Fastener Caution](#) in the Preface section.

1. Install the floor air outlet (2).
Install the 6 floor air outlet bolts (1) and tighten to **2.5 N·m (23 lb in)**.
2. Install the heater wiring harness.

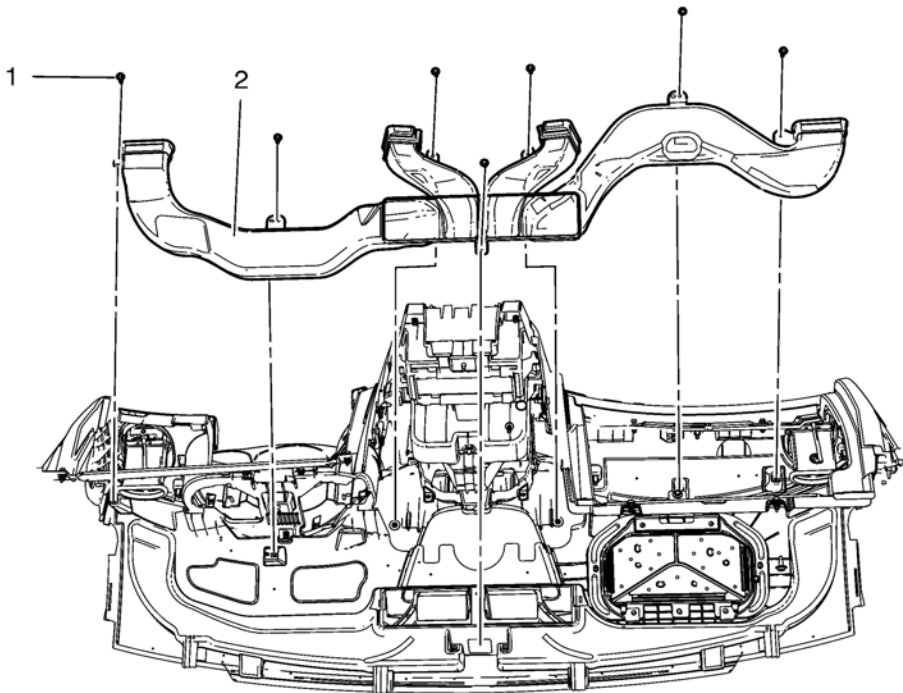


3. Install the instrument panel tie bar (2).
 - Install the 4 instrument panel tie bar bolts (3, 4) and tighten to **22 N·m (17 lb ft)**.
 - Install the 2 instrument panel tie bar nuts (1) and tighten to **9 N·m (80 lb in)**.



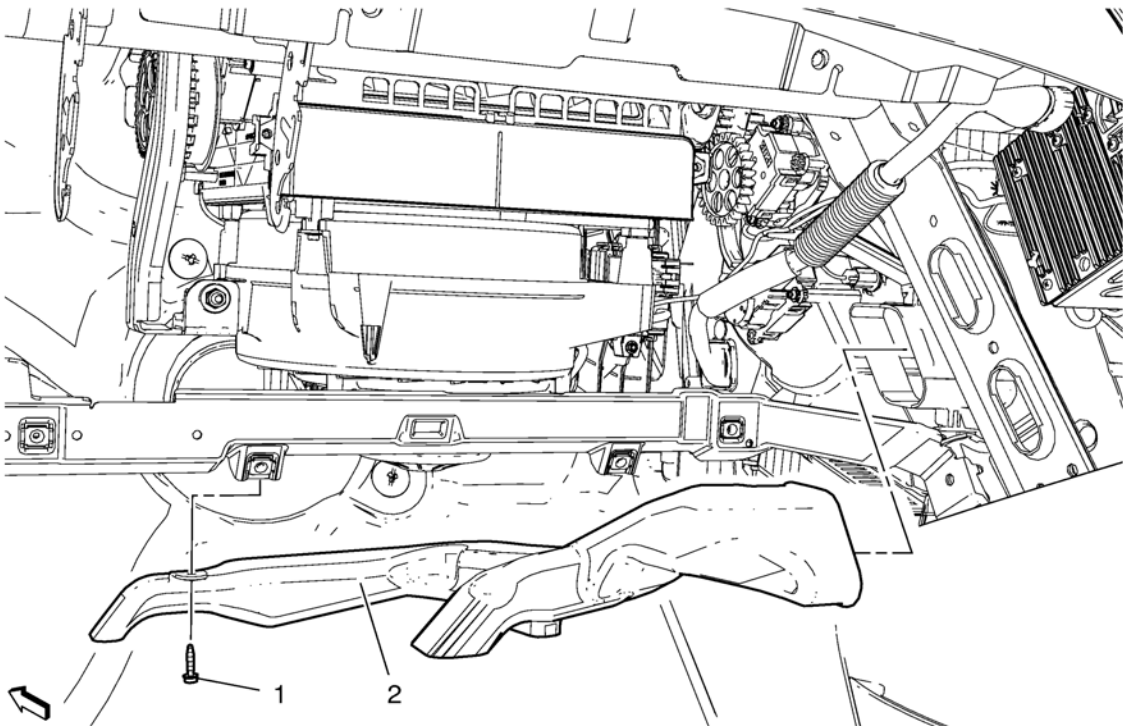
4. Attach the instrument panel wiring harness (2) to the instrument panel tie bar (1).
Connect the electrical connectors.
5. Install the instrument panel assembly. Refer to [Instrument Panel Assembly Replacement](#).

Instrument Panel Outer Air Outlet Duct Replacement



Callout	Component Name
Preliminary Procedure Remove instrument panel assembly. Refer to Instrument Panel Assembly Replacement.	
1	Instrument Panel Outer Air Outlet Duct Screw (Qty: 7) Caution: Refer to Fastener Caution in the Preface section. Tighten 2.5 N·m (22 lb in)
2	Instrument Panel Outer Air Outlet Duct

Floor Air Outlet Duct Replacement - Left Side (Right Hand Drive)

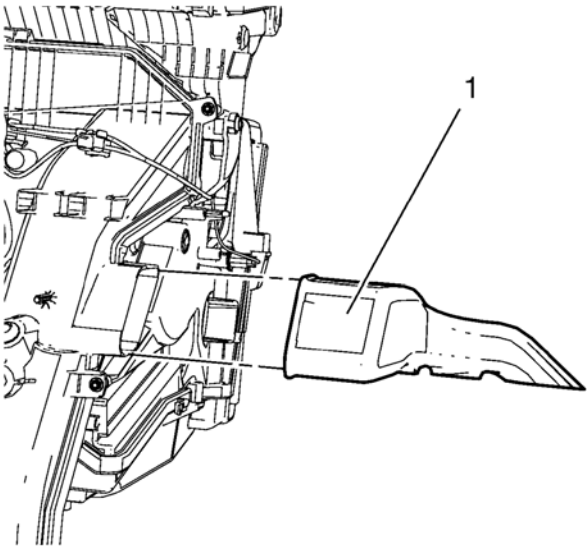


Callout	Component Name
Preliminary Procedure Remove IP Compartment. Refer to Instrument Panel Compartment Replacement .	
1	Floor Air Outlet Duct Bolt Caution: Refer to Fastener Caution in the Preface section. Tighten 2.5 N·m (22 lbf in)
2	Floor Air Outlet Duct

Floor Air Outlet Duct Replacement - Right Side (Right Hand Drive)

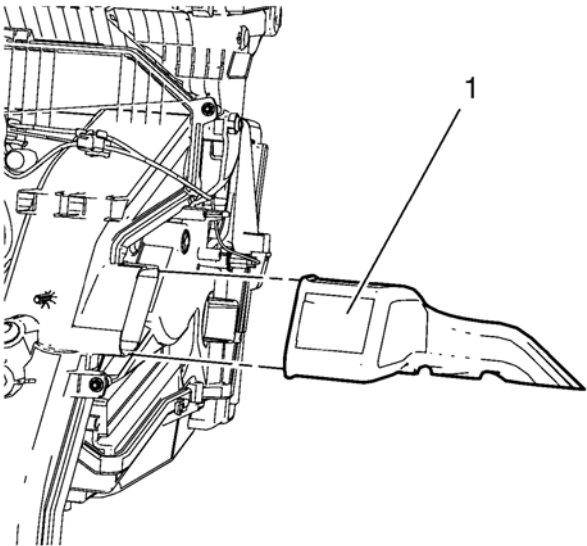
Removal Procedure

1. Remove instrument outer trim cover -- right side. Refer to [Instrument Panel Outer Trim Cover Replacement - Right Side](#).
2. Remove instrument panel lower trim pad cover -- left side. Refer to [Instrument Panel Lower Trim Pad Cover Replacement](#).



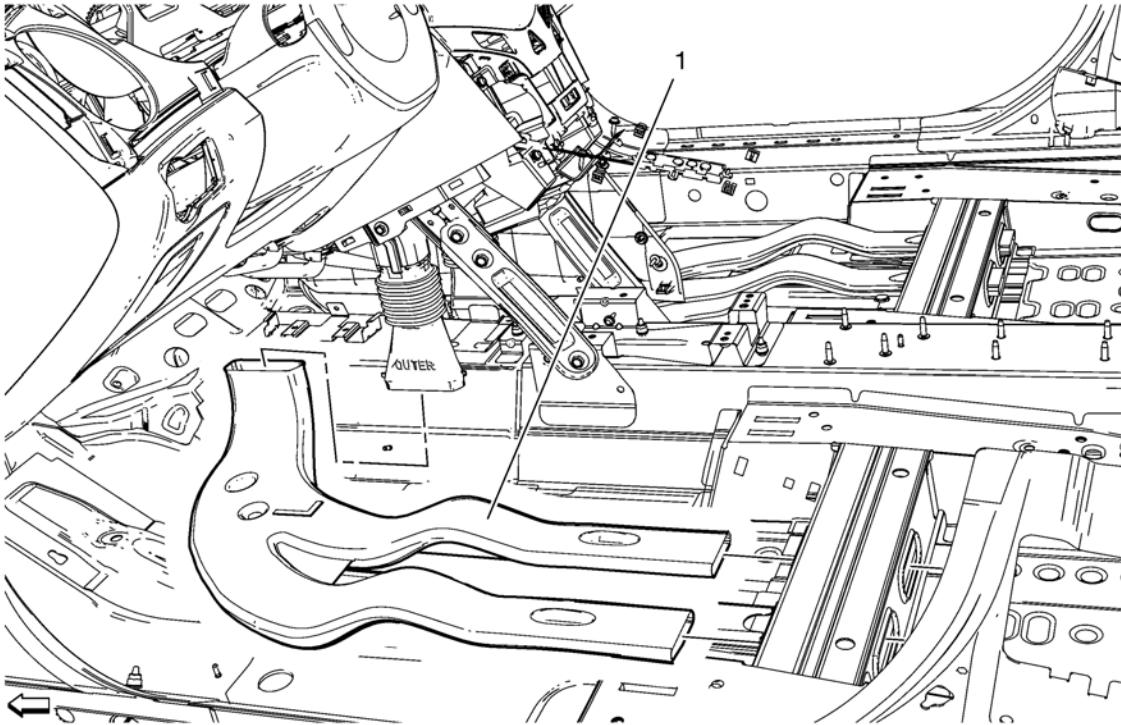
3. Remove floor air outlet duct (1) -- right side.

Installation Procedure



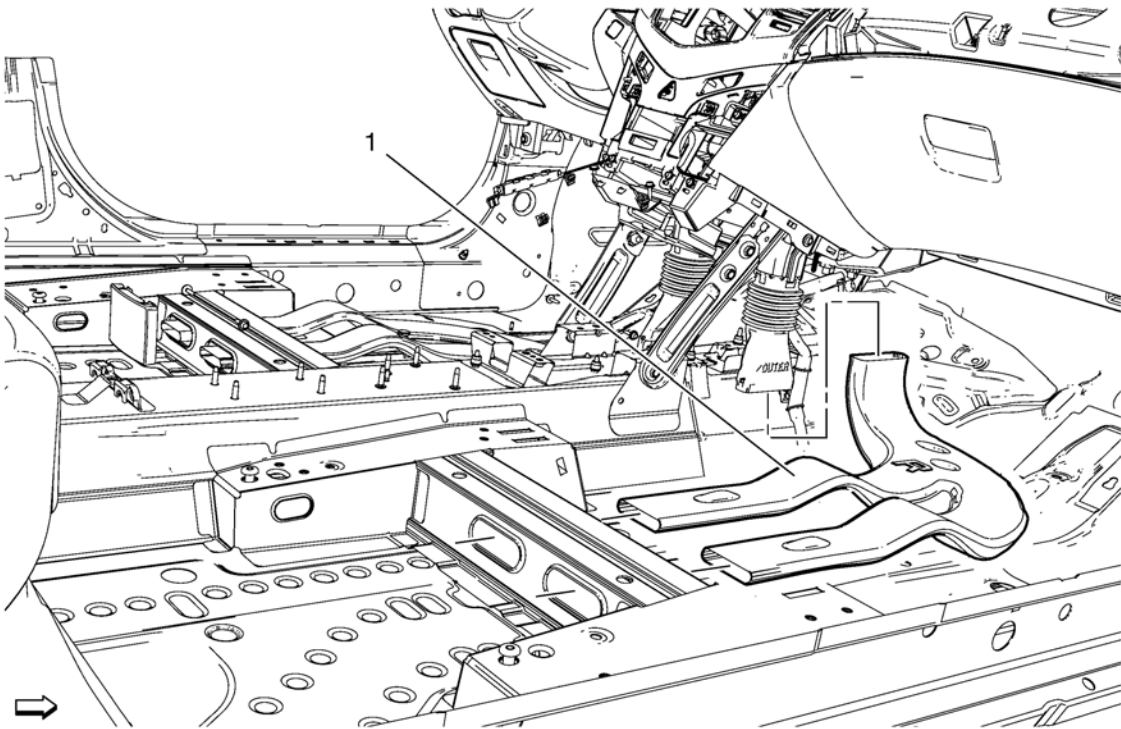
1. Install floor air outlet duct (1) -- right side.
2. Install instrument panel lower trim pad cover -- left side. Refer to [Instrument Panel Lower Trim Pad Cover Replacement](#).
3. Install instrument outer trim cover -- right side. Refer to [Instrument Panel Outer Trim Cover Replacement - Right Side](#).

Floor Rear Air Outlet Duct Replacement - Left Side



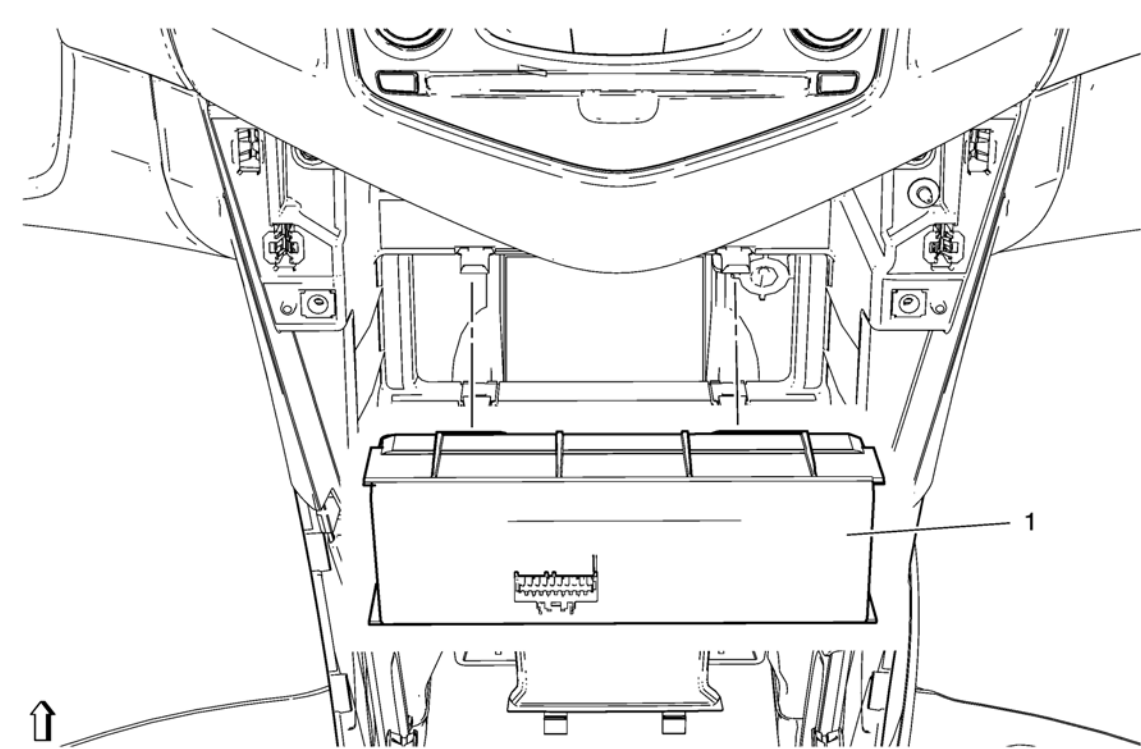
Callout	Component Name
Preliminary Procedure Remove front floor panel carpet. Refer to Front Floor Panel Carpet Replacement .	
1	Floor Rear Air Outlet Duct

Floor Rear Air Outlet Duct Replacement - Right Side



Callout	Component Name
Preliminary Procedure Remove front floor panel carpet. Refer to Front Floor Panel Carpet Replacement .	
1	Floor Rear Air Outlet Duct

Heater and Air Conditioning Remote Control Replacement



Callout	Component Name
Preliminary Procedures Remove heater and air conditioning control. Refer to Heater and Air Conditioning Control Replacement .	
1	Heater and Air Conditioning Remote Control Procedure Disconnect electrical components.

Heating and Air Conditioning System Description and Operation

Engine Coolant

Engine coolant is the key element of the heating system. The thermostat controls engine operating coolant temperature. The thermostat also creates a restriction for the cooling system that promotes a positive coolant flow and helps prevent cavitation. Coolant enters the heater core through the inlet heater hose, in a pressurized state.

The heater core is located inside the HVAC module. The heat of the coolant flowing through the heater core is absorbed by the ambient air drawn through the HVAC module. Heated air is distributed to the passenger compartment, through the HVAC module, for passenger comfort.

The amount of heat delivered to the passenger compartment is controlled by opening or closing the HVAC module air temperature door. The coolant exits the heater core through the return heater hose and recirculated back through the engine cooling system.

A/C Cycle

Refrigerant is the key element in an air conditioning system. R-134a is presently the only EPA approved refrigerant for automotive use. R-134a is an very low temperature gas that can transfer the undesirable heat and moisture from the passenger compartment to the outside air.

The A/C compressor is belt driven and operates when the magnetic clutch is engaged. The compressor builds pressure on the vapor refrigerant. Compressing the refrigerant also adds heat to the refrigerant. The refrigerant is discharged from the compressor, through the discharge hose, and forced to flow to the condenser and then through the balance of the A/C system. The A/C system is mechanically protected with the use of a high pressure relief valve. If the high pressure switch were to fail or if the refrigerant system becomes restricted and refrigerant pressure continued to rise, the high pressure relief will pop open and release refrigerant from the system.

Compressed refrigerant enters the condenser in a high temperature, high pressure vapor state. As the refrigerant flows through the condenser, the heat of the refrigerant is transferred to the ambient air passing through the condenser. Cooling the refrigerant causes the refrigerant to condense and change from a vapor to a liquid state.

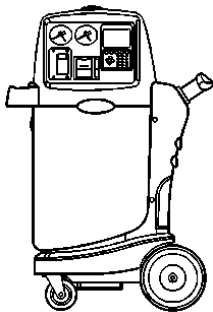
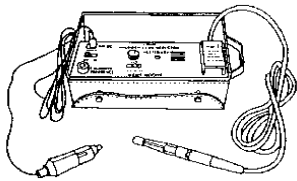
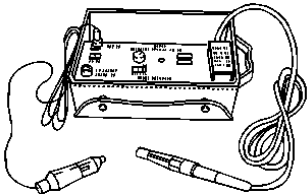
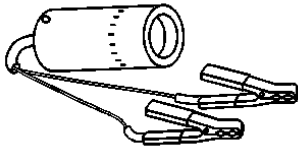
The condenser is located in front of the radiator for maximum heat transfer. The condenser is made of aluminum and aluminum cooling fins, which allows rapid heat transfer for the refrigerant. The semi-cooled liquid refrigerant exits the condenser and flows through the liquid line, to the thermal expansion valve.

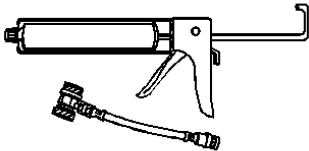
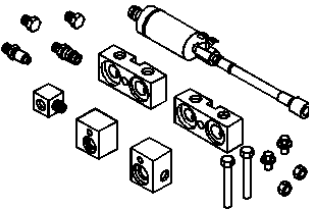
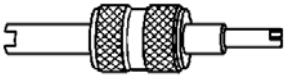
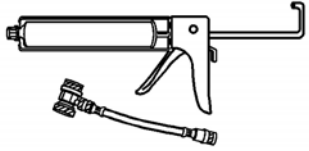
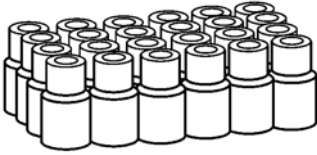
The thermal expansion valve is located in the liquid line between the condenser and the evaporator. The thermal expansion valve is the dividing point for the high and the low pressure sides of the A/C system. As the refrigerant passes through the thermal expansion valve, the pressure of the refrigerant is lowered. Due to the pressure differential of the liquid refrigerant, the refrigerant will begin to vaporize at the thermal expansion valve. The thermal expansion valve also meters the amount of liquid refrigerant that can flow into the evaporator.

Refrigerant exiting the thermal expansion valve flows into the evaporator core in a low pressure, liquid state. Ambient air is drawn through the HVAC module and passes through the evaporator core. Warm and moist air will cause the liquid refrigerant boil inside of the evaporator core. The boiling refrigerant absorbs heat from the ambient air and draws moisture onto the evaporator. The refrigerant exits the evaporator back through the thermal expansion valve and into the suction line and back to the compressor, in a vapor state completing the A/C cycle of heat removal. At the compressor, the refrigerant is compressed again and the cycle of heat removal is repeated.

The conditioned air is distributed through the HVAC module for passenger comfort. The heat and moisture removed from the passenger compartment will also change form, or condense, and is discharged from the HVAC module as water under the vehicle.

Special Tools

Illustration	Tool Number/ Description
	A/C Filling Device
	GE-39400 J-39400 Electric Halogen Leak Detector
	GE-39400-A J-39400-A Halogen Leak Detector
	GE-41447 J-41447 R-134A A/C Tracer Dye - Box of 24
	BO-42220 J-42220 Universal 12V Leak Detection Lamp
	GE-43872 J-43872 Florescent Dye Cleaner

	GE-45037-A J-45037-A A/C Oil Injector
	GE-45268 J-45268 A/C Flushing Adapter Kit
	GE-46246 J-46246 Valve Core Tool
	GE-46297 J-46297 A/C Dye Injector Kit
	GE-46297-12 J-46297-12 Replacement Dye Cartridges
	EL-47955 J-2534 Multi Diagnostic Interface MDI