

Venice Service Manual

Occupant Comfort and Entertainment

10. Occupant Comfort and Entertainment

10.1. Stereo

10.1.1. Repair instructions

10.1.1.1. Amplifier



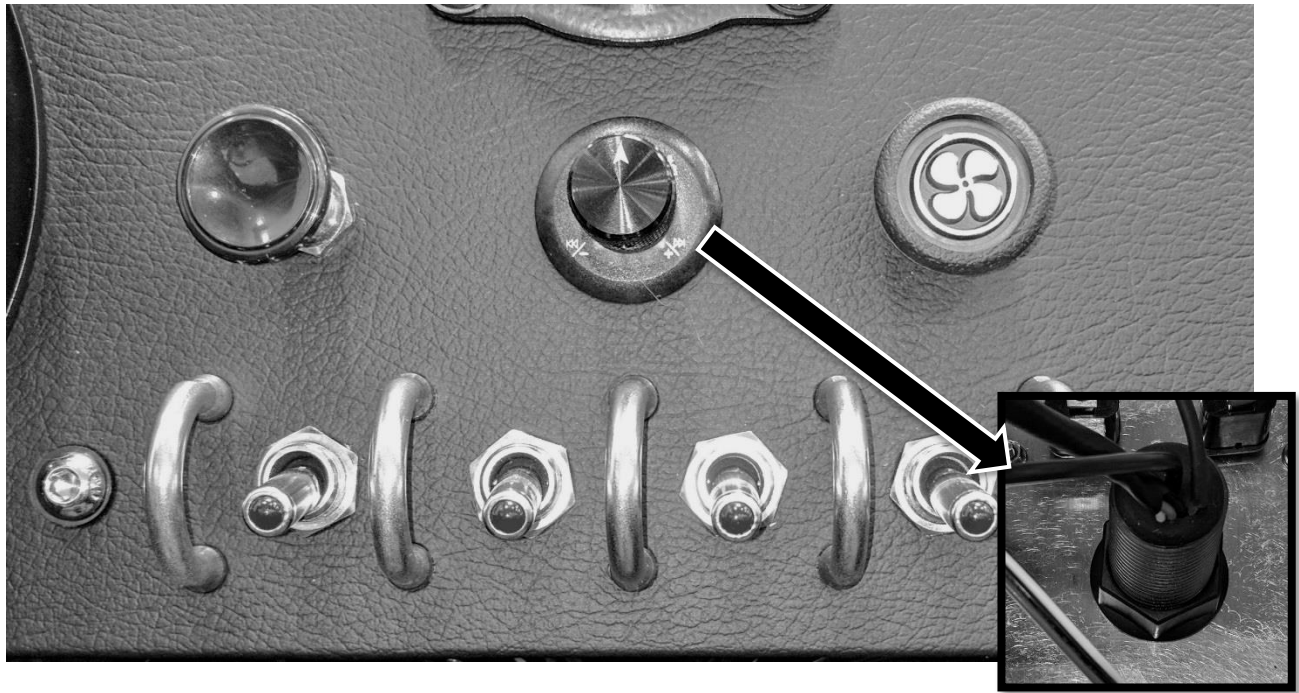
Amplifier Replacement

Callout	Component Name
Preliminary Procedure	
1. Remove Hood, Refer to Hood in Body Repair	
2. Remove Cowl, Refer to Cowl in Body Repair	
1	Amplifier Nut/Bolts Tighten: 22 Nm (16 lb. ft.)

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10.1.1.2. Bluetooth Receiver Replacement



Blue Tooth Receiver Replacement

Callout	Component Name
The Bluetooth receiver is a high-quality Bluetooth 4.0 audio streaming interface that provides a seamless and secure bi-directional wireless connection from a Bluetooth Capable device	
Preliminary Procedure	
1. Remove Dash Panel, Refer to Dash in Interior Trim	
1	Bluetooth Receiver Procedure: Un thread collar around device Installation: Verify orientation of the Bluetooth device

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10.1.1.3. Midrange Speakers



Midrange Speaker Replacement	
Callout	Component Name
1	Speaker cover screws Tighten: 3.5 Nm (30 in lb.)

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10.2. Heating Ventilation

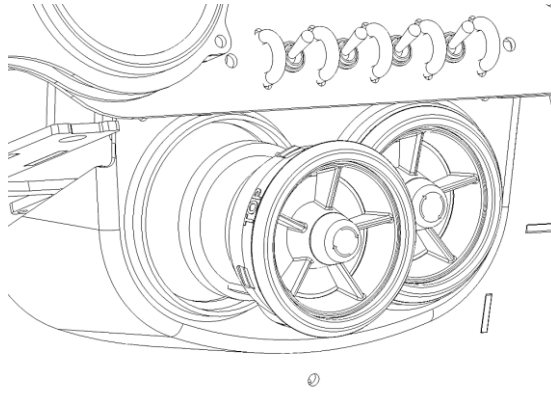
10.2.1. Heating and Air Conditioning System Description and Operation

Engine Coolant

Engine coolant is the key element of the heating system. The engine thermostat controls the normal engine operating coolant temperature. Coolant pumped out of the engine enters the heater core through the inlet heater hose. The air flowing through the Heating module absorbs the heat of the coolant flowing through the heater core. The coolant then exits the heater core through the heater outlet hose and returns back to the engine block.

10.2.2. Repair instructions

10.2.2.1. Heater Vent



10.2.2.1.1. Removal

Insert fingers in to Heater Vent
Pull Firmly

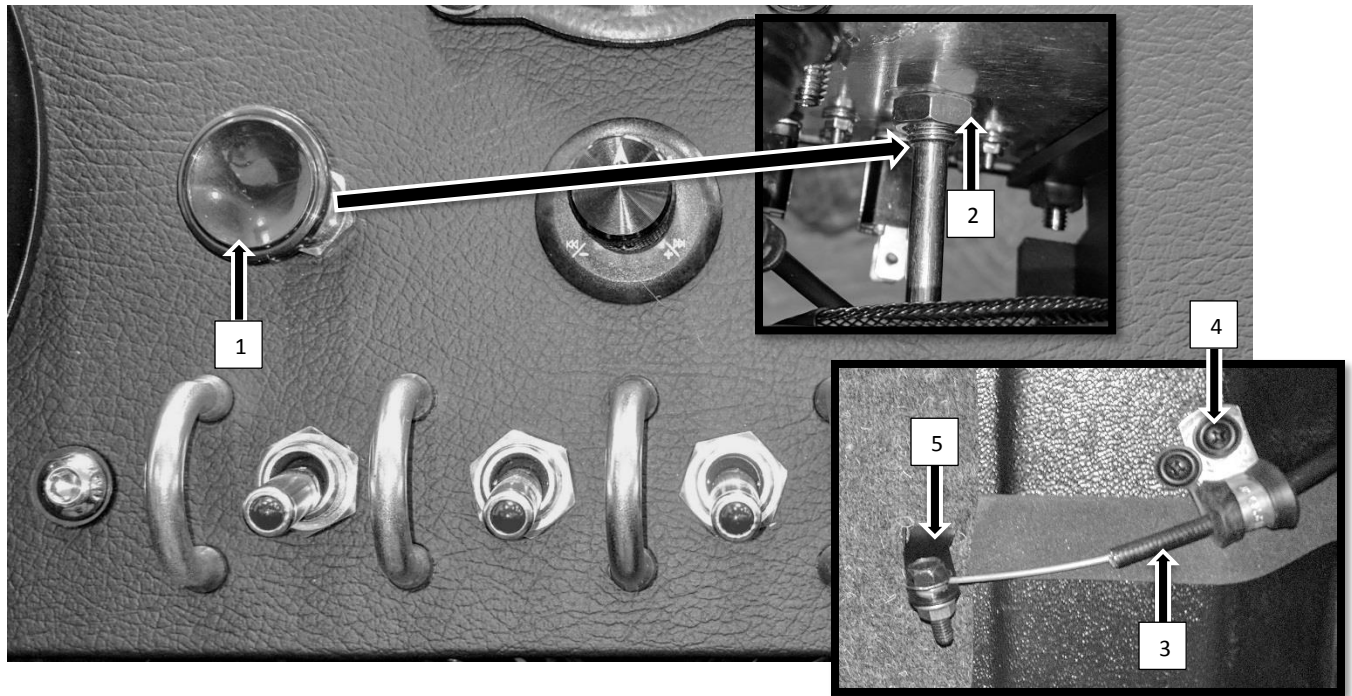
10.2.2.1.2. Installation

Insert HVAC Vent in to Chassis
Press Firmly and Audible Click will be heard

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10.2.2.2. Blend Door Cable



Callout	Component Name
Preliminary Procedure	
1. Remove Hood, Refer to Hood in Body Repair 2. Remove Cowl, Refer to Cowl in Body Repair	
1	Blend Door Knob Procedure: 1. Remove Cable Clamp (4) 2. Remove Blend Door Cable End Nut and Bolt (5) 3. Remove Blend Door Cable Nut (2) on back side of Knob
2	Blend Door Cable Nut
3	Blend Door Cable
4	Cable Clamp
5	Blend Door Cable End Nut and Bolt Tighten: 22 Nm (16 lb. ft.)

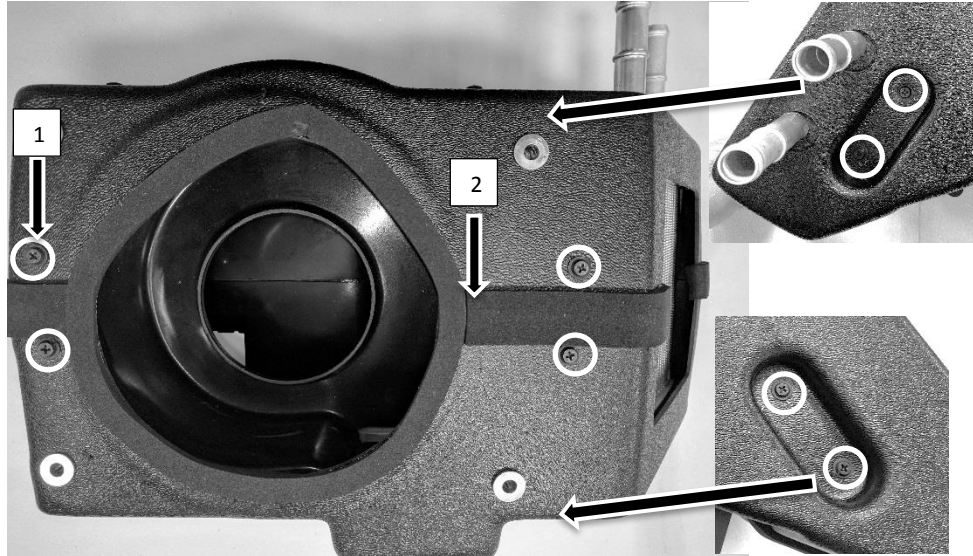
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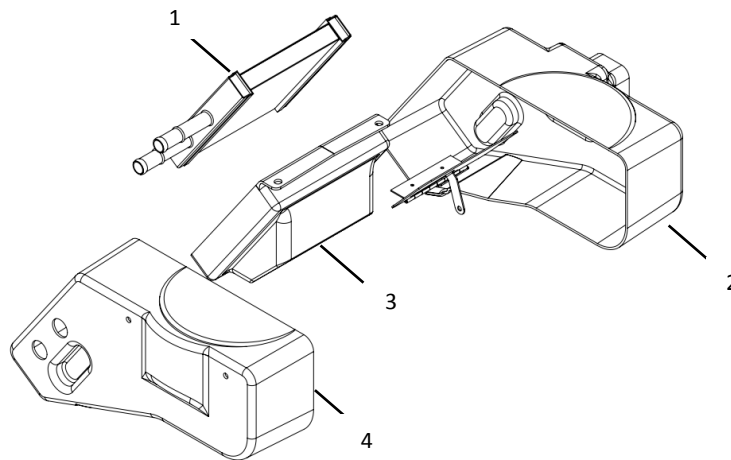
10.2.2.3. Heater Core

10.2.2.3.1. Removal

1. Remove the Hood, [Refer to Hood in Body Repair](#)
2. Remove the Cowl, [Refer to Cowl in Body Repair](#)
3. Remove the Heater box, [Refer to Heater Box in this section.](#)



4. Remove the 8 Screws (1) from the Heater box
5. Remove any joint sealant from the Heater box (2)

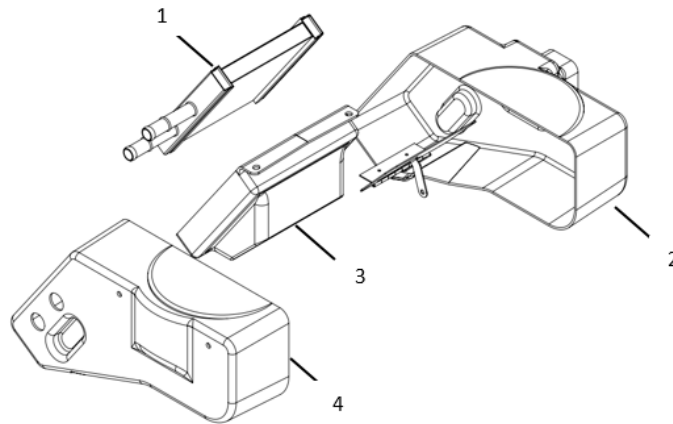


6. Separate the Heater Box and remove the heater core (1).

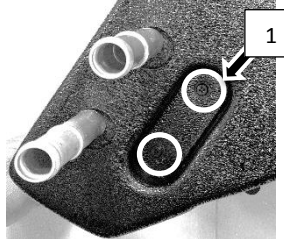
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10.2.2.3.2.Installation



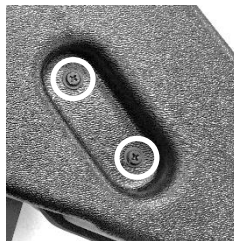
1. Place the heater core (1) in to the Heater Tray (3)
2. Slide the Heater core and Heater Tray assembly in to the Rear half of the Heater box (2)



Caution:

Use Caution when tightening screws in to the plastic housing. The material can strip easily

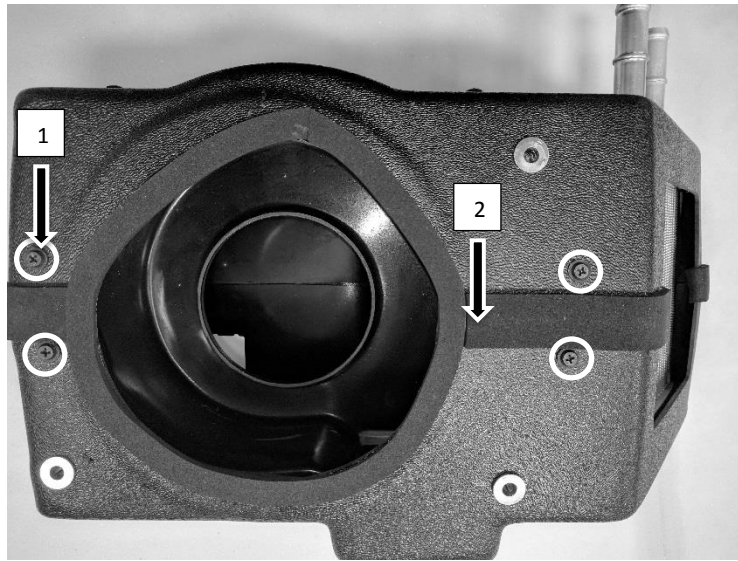
3. Install the 2 screws (1) between the Rear Half and the Heater core tray. Tighten until snug.
4. Install the Front half of the heater box (4 above)



5. Install the 2 screws (1) between the Front Half and the Heater core tray. Tighten until snug.

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6. Install the Four Screws (1) on the upper section of the Heater Box
7. Install the Joint Seal
8. Install the Heater Box in to the Chassis, **Refer to Heater Box in this section**
9. Install the Cowl, **Refer to Cowl in Body Repair**
10. Install the Hood, **Refer to Hood in Body Repair**

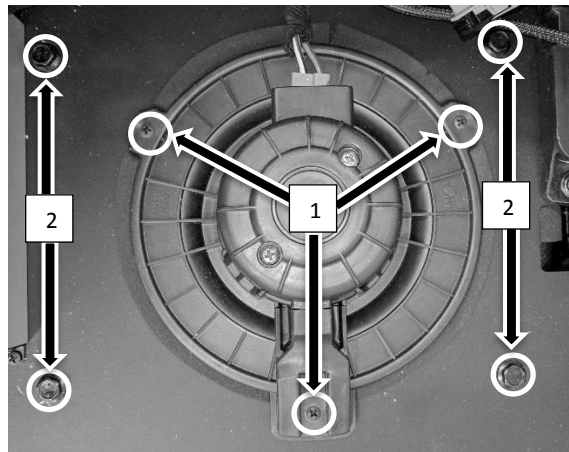
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10.2.2.4. Heater Box

10.2.2.4.1. Removal

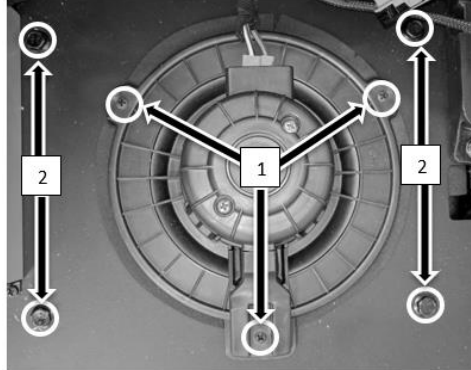
1. Remove the Hood, [Refer to Hood in Body Repair](#)
2. Remove the Cowl, [Refer to Cowl in Body Repair](#)
3. Remove the Blend Door Cable End Nut and Bolt, [Refer to Blend Door Cable in this section](#)
4. Remove the Heater Inlet Hose, [Refer to Heater Inlet Hose in this section](#)
5. Remove the Heater Outlet Hose, [Refer to Heater Outlet Hose in this section](#)
6. Remove the Heater Vents, [Refer to Heater Vent](#)
7. Remove the Heater Vent Surround, [Refer to Heater Vent Surround in Interior Trim](#)
8. Disconnect the Blower Motor Resistor connector
9. Remove the Heater Duct, [Refer to Heater Duct in this section](#)



10. Remove the Blower Motor (1)
11. Remove the 4 Bolts supporting the Heater Box
12. Remove the Heater Box

10.2.2.4.2.Installation

1. Install the Heater Box in to the chassis



2. Install and tighten the 4 Heater mounting bolts (2), tighten to 8Nm (6 ft lb)
3. Install the blower Motor and tighten the 3 mounting bolts, tighten to 8Nm (6 ft lb)
4. Install the Heater Duct, [Refer to Heater Duct in this section](#)
5. Connect the Blower Motor Resistor Connector
6. Install the Heater Vent Surround, [Refer to Heater Vent Surround in Interior Trim](#)
7. Install the Heater Vents, [Refer to Heater Vent](#)
8. Install the Blend Door Cable End Nut and Bolt, [Refer to Blend Door Cable in this section](#)
9. Install the Heater Inlet Hose, [Refer to Heater Inlet Hose in this section](#)
10. Install the Heater Outlet Hose, [Refer to Heater Outlet Hose in this section](#)
11. Install the Cowl, [Refer to Cowl in Body Repair](#)
12. Install the Hood, [Refer to Hood in Body Repair](#)

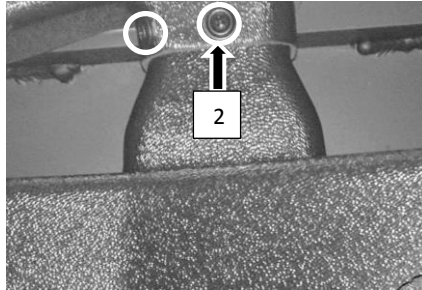
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10.2.2.5. Heater Duct

10.2.2.5.1. Removal

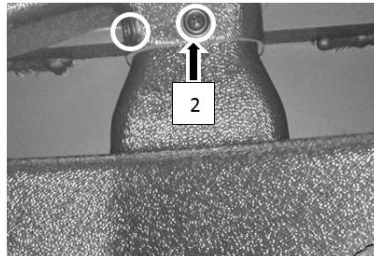
1. Remove the Heater Vents, [Refer to Heater Vent](#)
2. Remove the Heater Vent Surround, [Refer to Heater Vent Surround in Interior Trim](#)



3. Remove the two screws securing the Heater Duct to the Heater Box
4. Remove the Heater Duct

10.2.2.5.2. Installation

1. Press the Heater Duct on to the Heater Box



2. Install the Two Screws securing the Heater Duct to the Heater Box
3. Install the Heater Vent Surround, [Refer to Heater Vent Surround in Interior Trim](#)
5. Install the Heater Vents the Heater Vents, [Refer to Heater Vent](#)

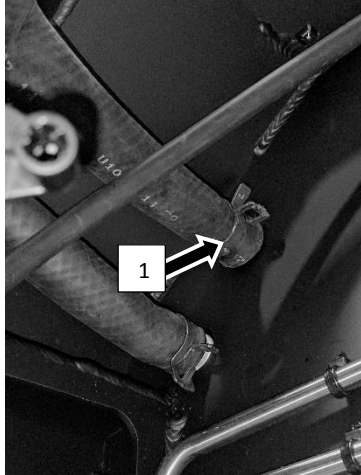
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10.2.2.6. Heater Inlet Hose Replacement

10.2.2.6.1. Removal Procedures

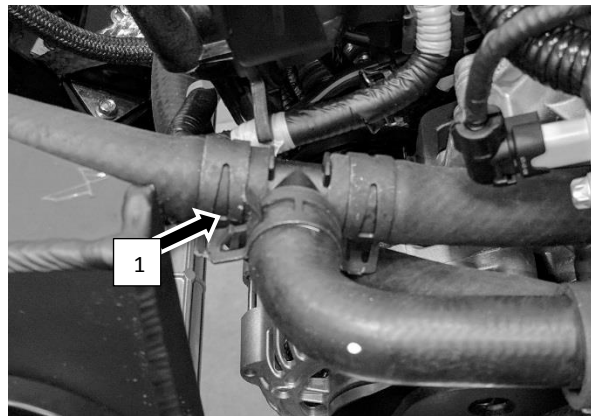
1. Remove the Hood, [Refer to Hood in Body Repair](#)
2. Drain the engine coolant system. Refer to [Cooling System Draining and Filling](#).



Note:

Refer to Hose Clamp Replacement Guidelines - Spring Type
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3. Disconnect the Heater Inlet Hose from the Heater Core (1)

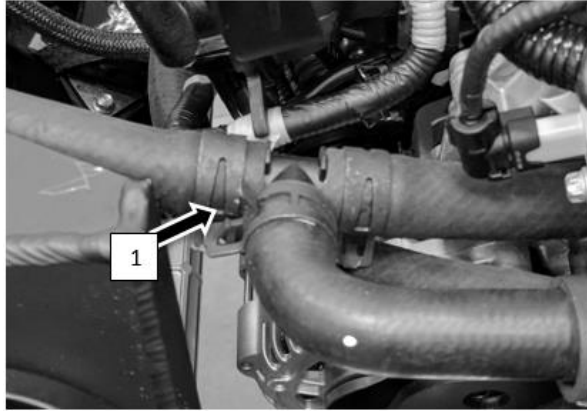


4. Disconnect the Heater inlet hose from the Heater Tee (1)

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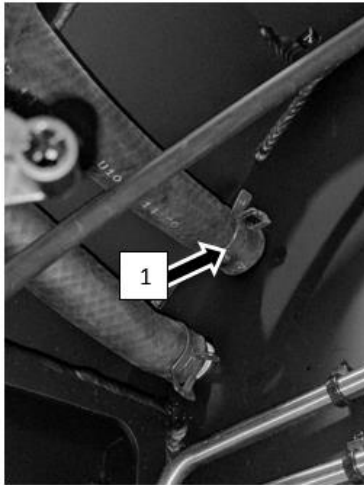
10.2.2.6.2. Installation Procedures



Note:

Refer to Hose Clamp Replacement Guidelines - Spring Type

1. Connect the Heater inlet hose from the Heater Tee (1)



2. Connect the Heater Inlet Hose from the Heater Core (1)
3. Refill the engine coolant system. Refer to [Cooling System Draining and Filling](#).
4. Install the Hood, [Refer to Hood in Body Repair](#)

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10.2.2.7. Heater Outlet Hose Replacement

10.2.2.7.1. Removal Procedures

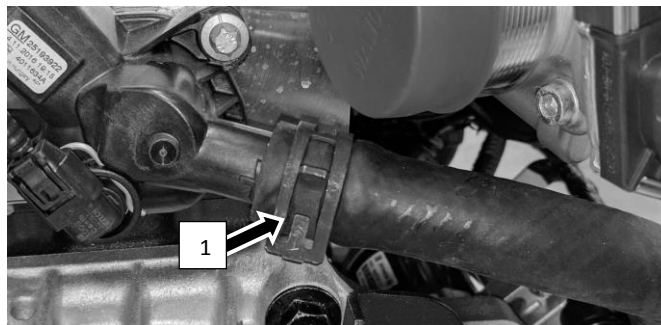
1. Remove the Hood, [Refer to Hood in Body Repair](#)
2. Drain the engine coolant system. Refer to [Cooling System Draining and Filling.](#)
3. Remove the Charge Air Cooler Outlet Air Hose from the Throttle Body and position it out of the way, [Refer to Charge Air Cooler Outlet Air Hose Replacement](#)



Note:

Refer to Hose Clamp Replacement Guidelines - Spring Type
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4. Disconnect the Heater Outlet Hose from the Heater Core (1)

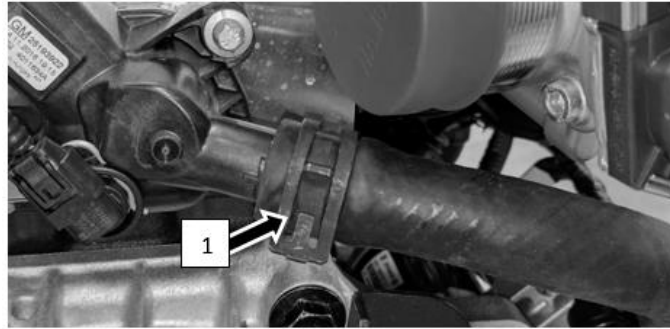


5. Disconnect the Heater Outlet hose from Water Outlet

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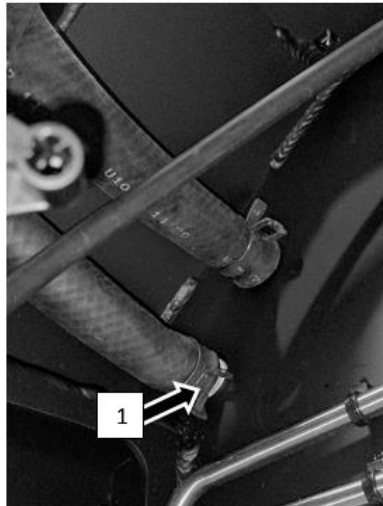
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10.2.2.7.2. Installation Procedures



Note:
Refer to Hose Clamp Replacement Guidelines - Spring Type

1. Connect the Heater inlet hose to the Water Outlet

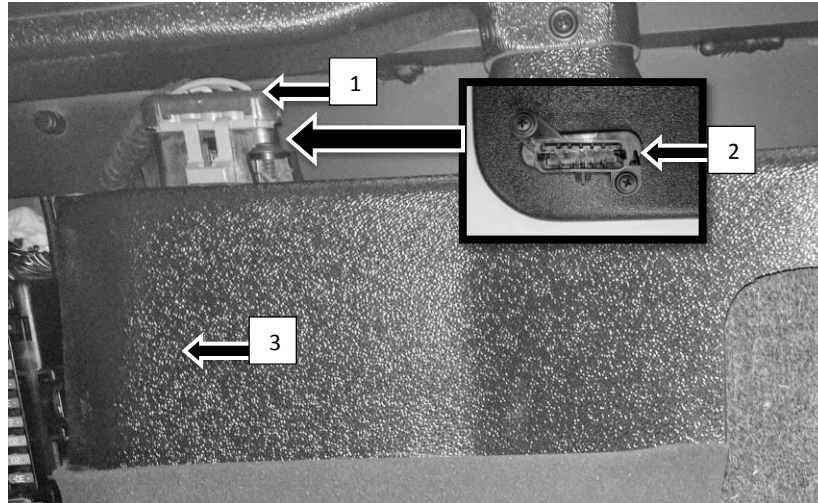


2. Connect the Heater Inlet Hose from the Heater Core (1)
3. Refill the engine coolant system. Refer to [Cooling System Draining and Filling](#).
4. Install the Hood, [Refer to Hood in Body Repair](#)

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10.2.2.7.3. Blower Motor Resistor Replacement



Blower Motor Resistor Replacement

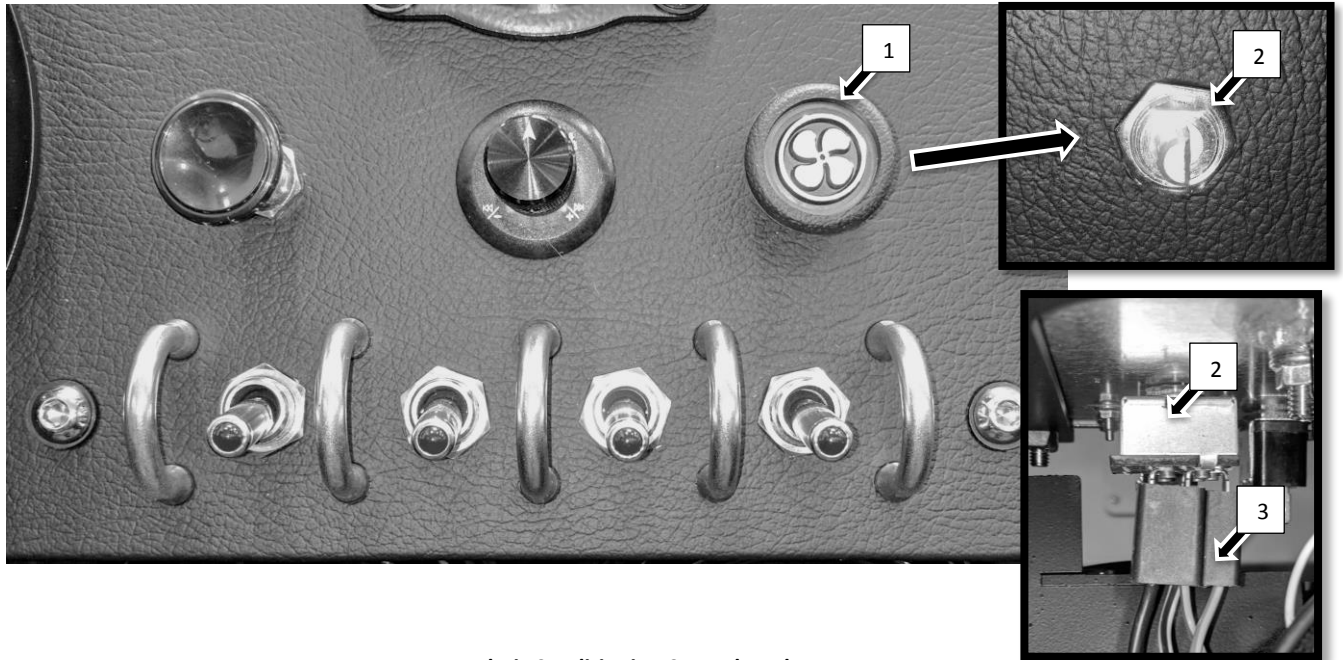
Callout	Component Name
Preliminary Procedures	
1. Remove the Heater Duct	
1	Blower Motor Resistor Connector
2	Blower Motor Resistor Caution: Use Caution when tightening screws in to the plastic housing. The material can strip easily
3	Heater Box Tighten: 8Nm (6 ft lb)

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10.2.2.8. Blower Motor Fan Control



Heater and Air Conditioning Control Replacement

Callout	Component Name
Preliminary Procedure	
1. Remove the Dash, Refer to Dash in Interior Trim	
1	Fan Control Knob Procedure: Pull to Remove
2	Fan Switch Procedure: Remove nut on front face Tighten: 3.5 Nm (30 in lb.)
3	Fan Connector