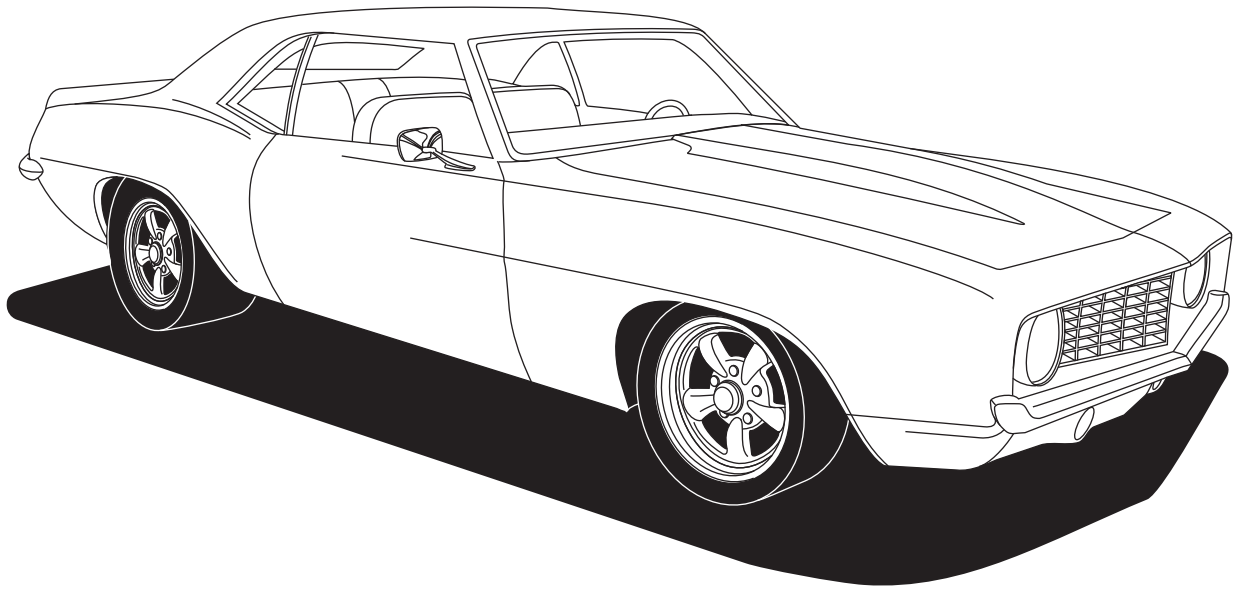




# 1969 Chevrolet Camaro

*without* Factory Air  
Gen 5 Evaporator Kit  
(561245)



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A detailed tech video outlining the installation process of a Gen IV unit is available on Vintage Air's YouTube channel at <http://bit.ly/2GWAxWY>.

Installation processes of Gen IV and Gen 5 units are similar. Viewing the tech video along with the written instructions will provide the installer the most detailed installation procedure.



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## Packing List: Evaporator Kit (561245)

No.	Qty.	Part No.	Description
1.	1	765200	Gen 5 Super Magnum Module
2.	1	781245	Accessory Kit

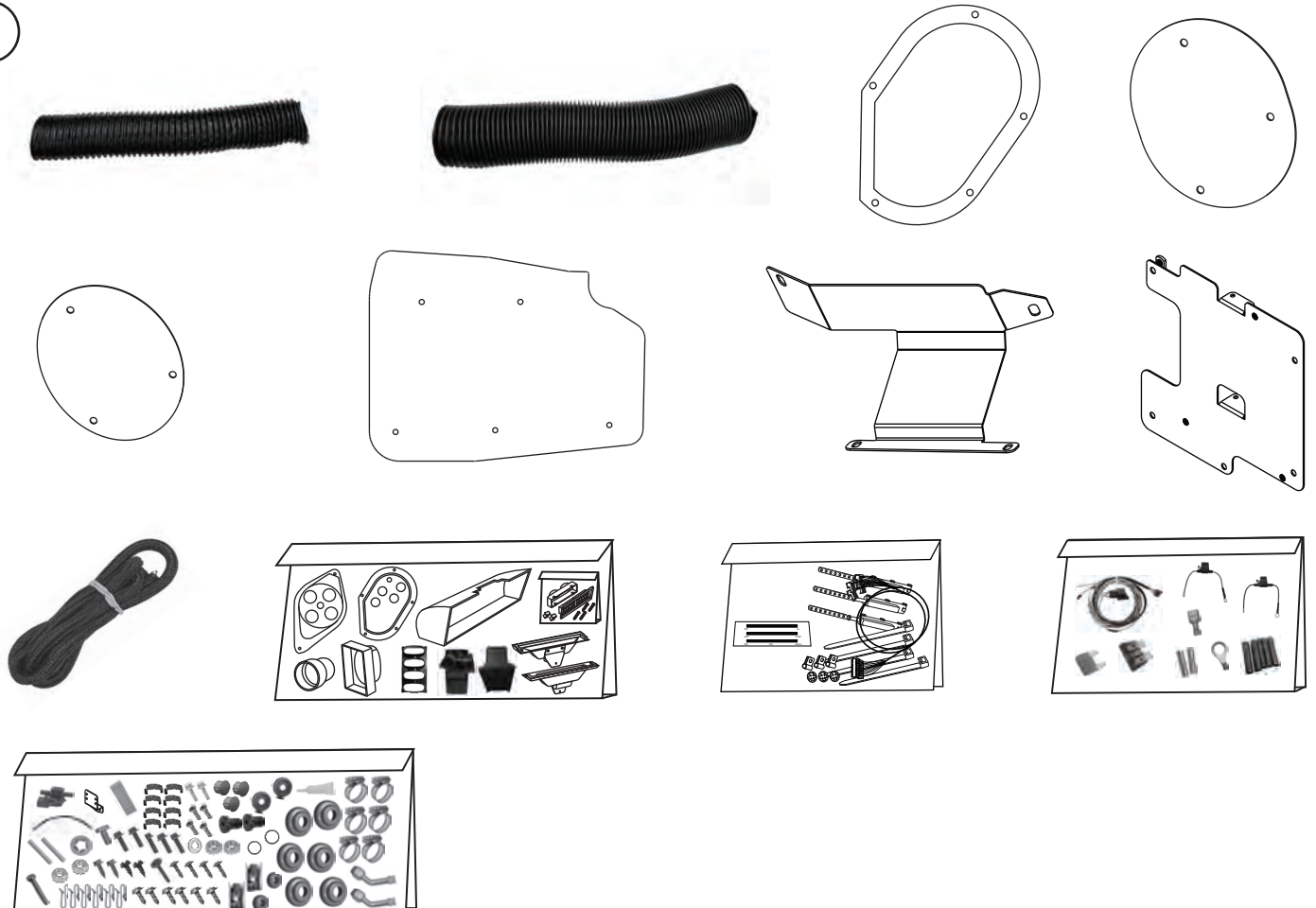
**\*\* Before beginning installation, open all packages and check contents of shipment.  
Please report any shortages directly to Vintage Air within 15 days. After 15 days,  
Vintage Air will not be responsible for missing or damaged items.**

1

Gen 5 Super Magnum  
Module  
765200



2



Accessory Kit  
781245

**NOTE: Images may not depict actual parts and quantities.  
Refer to packing list for actual parts and quantities.**



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## Important Notice—Please Read

*For Maximum System Performance, Vintage Air Recommends the Following:*

**NOTE:** Vintage Air systems are designed to operate with R134a refrigerant only. Use of any other refrigerant could damage your A/C system and/or vehicle, and possibly cause a fire, in addition to potentially voiding the warranties of the A/C system and its components.

### Refrigerant Capacities:

**Vintage Air System:** 1.8 lbs. (28.8 oz.) or 816 grams of **R134a**, charged by weight with a quality charging station or scale. **NOTE:** Use of the proper type and amount of refrigerant is critical to system operation and performance.

**Other Systems:** Consult manufacturer's guidelines.

### Lubricant Capacities:

**New Vintage Air-Supplied Sanden Compressor:** No additional oil needed (Compressor is shipped with proper oil charge).

**All Other Compressors:** Consult manufacturer (Some compressors are shipped dry and will need oil added).

### Safety Switches

Your Vintage Air system is equipped with a binary pressure safety switch. A binary switch disengages the compressor clutch in cases of extreme low pressure conditions (refrigerant loss) or excessively high head pressure (406 PSI) to prevent compressor damage or hose rupture. A trinary switch combines Hi/Lo pressure protection with an electric fan operation signal at 254 PSI, and should be substituted for use with electric fans. Compressor safety switches are extremely important since an A/C system relies on refrigerant to circulate lubricant.

### Service Info:

**Protect Your Investment:** Prior to assembly, it is critical that the compressor, evaporator, A/C hoses and fittings, hardlines, condenser and receiver/drier remain capped. Removing caps prior to assembly will allow moisture, insects and debris into the components, possibly leading to reduced performance and/or premature failure of your A/C system. This is especially important with the receiver/drier.

Additionally, when caps are removed for assembly, **BE CAREFUL!** Some components are shipped under pressure with dry nitrogen.

**Evacuate the System for 35-45 Minutes:** Ensure that system components (Drier, compressor, evaporator and condenser) are at a temperature of at least 85°F. On a cool day, the components can be heated with a heat gun **or** by running the engine with the heater on before evacuating. Leak check and charge to specifications.

### Bolts Passing Through Cowl and/or Firewall:

To ensure a watertight seal between the passenger compartment and the vehicle exterior, for all bolts passing through the cowl and/or firewall, Vintage Air recommends coating the threads with silicone prior to installation.

### Heater Hose (not included with this kit):

Heater hose may be purchased from Vintage Air (Part#31800-VUD) or your local parts retailer. Routing and required length will vary based on installer preference.

## Important Wiring Notice—Please Read

*Some vehicles may have had some or all of their radio interference capacitors removed. There should be a capacitor found at each of the following locations:*

- 1. On the positive terminal of the ignition coil.**
- 2. If there is a generator, on the armature terminal of the generator.**
- 3. If there is a generator, on the battery terminal of the voltage regulator.**

Most alternators have a capacitor installed internally to eliminate what is called “whining” as the engine is revved. If whining is heard in the radio, or just to be extra cautious, a radio interference capacitor can be added to the battery terminal of the alternator.

It is also important that the battery lead is in good shape and that the ground leads are not compromised. There should be a heavy ground from the battery to the engine block, and additional grounds to the body and chassis.

If these precautions are not observed, it is possible for voltage spikes to be present on the battery leads. These spikes come from ignition systems and charging systems, and from switching some of the vehicle’s other systems on and off. Modern computer-operated equipment can be sensitive to voltage spikes on the power leads, which can cause unexpected resets, strange behavior and/or permanent damage.

Vintage Air strives to harden our products against these types of electrical noise, but there is a point where a vehicle’s electrical system can be degraded so much that nothing can help.

Radio interference capacitors should be available at most auto and truck parts suppliers. They typically are cylindrical in shape, a little over an inch long and a little over a half-inch in diameter, and they have a single lead coming from one end of the cylinder with a terminal on the end of the wire, as well as a mounting clip which is screwed into a good ground on the vehicle. The specific value of the capacitance is not too significant in comparison to ignition capacitors that are matched with the coil to reduce pitting of the points.

- Care must be taken, when installing the compressor lead, not to short it to ground. The compressor lead must not be connected to a condenser fan or to any other auxiliary device. Shorting to ground or connecting to a condenser fan or any other auxiliary device may damage wiring or the compressor relay, and/or cause a malfunction.
- When installing ground leads on Gen 5 systems, the blower control ground and ECU ground must be connected directly to the negative battery post.
- For proper system operation, the heater control valve must be connected to the ECU.



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## Engine Compartment Disassembly

**NOTE:** Before starting the installation, check the function of the vehicle (horn, lights, etc.) for proper operation, and study the instructions, illustrations, photos & diagrams.

### Perform the Following:

1. Disconnect the battery.
2. Remove the battery and battery tray (retain) (See Figure 1, below).
3. Drain the radiator.
4. Remove the OEM heater hoses (discard) (See Figure 1, below).
5. Remove the OEM blower motor assembly (See Figure 1, below). **NOTE:** To remove the blower assembly (under hood) and the air distribution system (under dash), the factory manual recommends the following: Remove the right lower rocker molding. Remove the fender attaching bolts. Remove the skirt-to-fender and skirt-to-reinforcement screws. Pull out on the lower portion of the fender, moving the skirt away from the fender flange and firewall. Block the skirt with a 2" x 4" block of wood. To avoid damage to the paint and sheet metal, and for ease of removal and replacement of components, Vintage Air recommends that the right fender be removed, and the inner panel lowered. Removing the right front tire will provide easier access to the inner fender bolts.

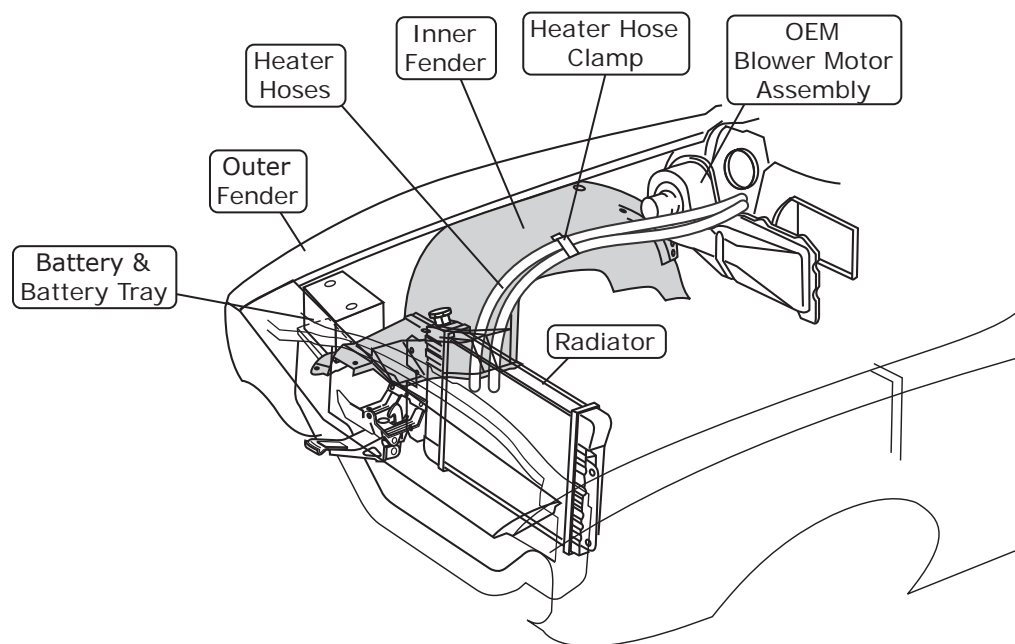


Figure 1

## Condenser Assembly and Installation

1. Refer to separate instructions included with the condenser kit to install the condenser.
2. Binary switch installation (Refer to condenser instructions).

## Compressor and Brackets

1. Refer to separate instructions included with the bracket kit to install the compressor bracket.





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## Dash Modification

1. Mark the dash area as shown in Photo 1, below. **NOTE: Offset the marked area 1/8" to the right of the dash padding/dash metal seam (See Photo 1, below). This will allow for the center louver bezel to seat flat against the dash padding. Do not exceed the dimensions shown in Photo 1, otherwise, the opening will encroach on the area for the installation of the mounting screws.**
2. Cut and remove the dash (See Photo 2, below).

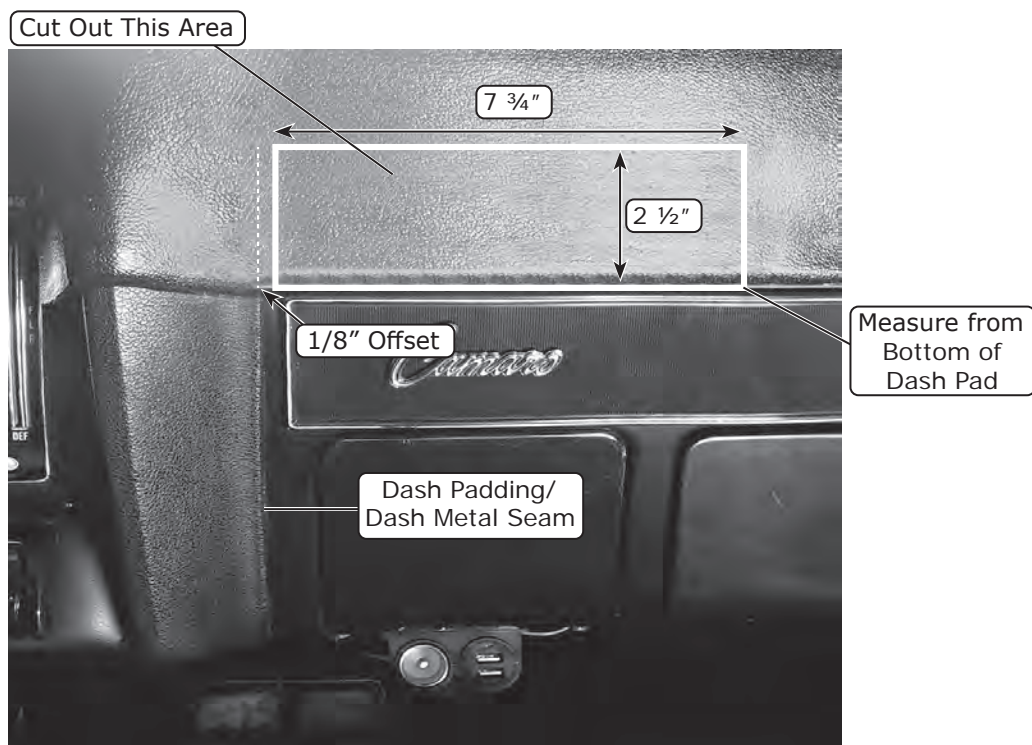


Photo 1



Photo 2

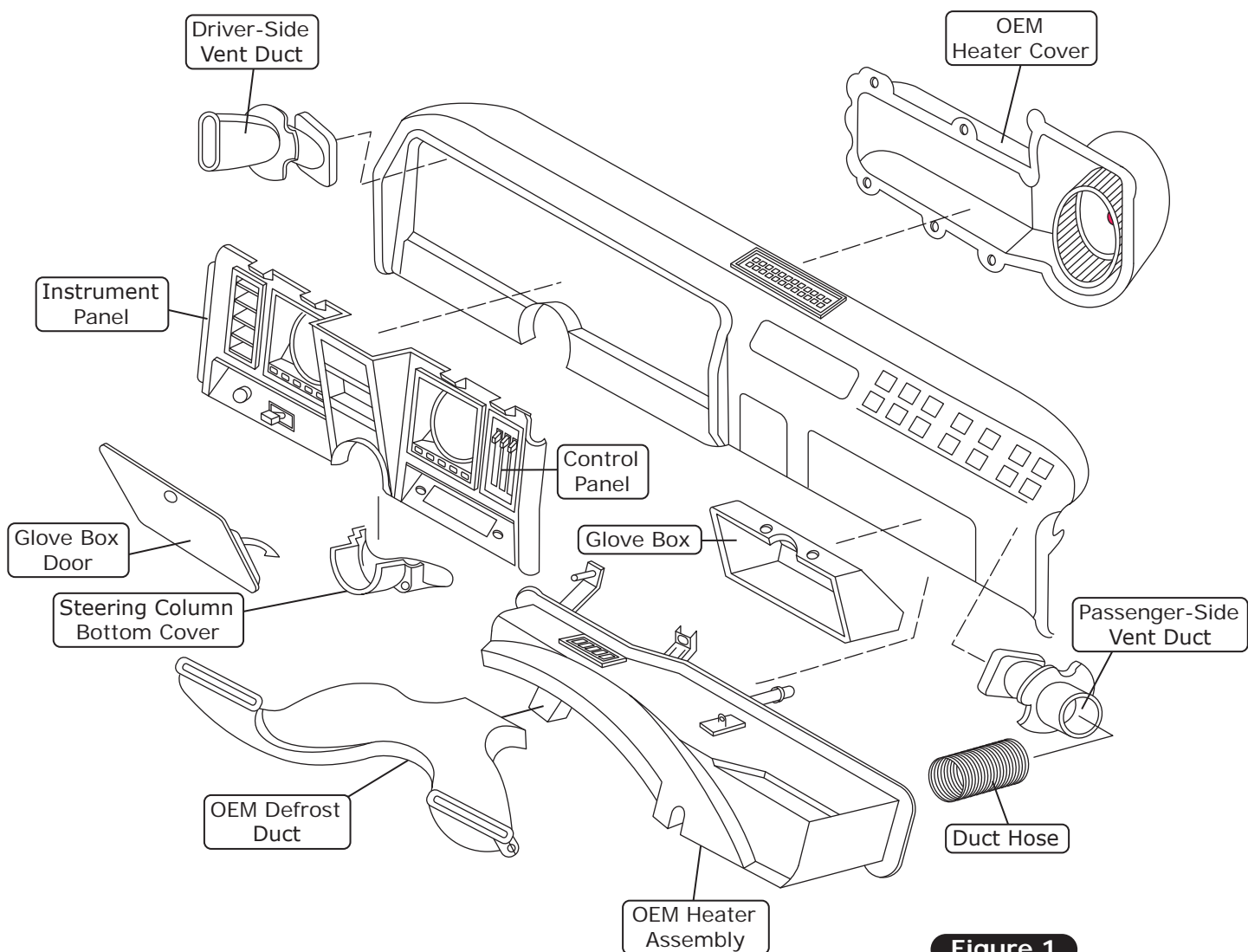


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## Passenger Compartment Disassembly

### Perform the Following:

1. Remove the OEM heater assembly (discard) (See Figure 1, below).
2. Remove the OEM defrost duct (discard) (See Figure 1, below).
3. Remove the steering column bottom cover (retain) (See Figure 1, below).
4. Remove the driver- and passenger-side vent ducts (discard) (See Figure 1, below).
5. Remove the OEM duct hoses (discard) (See Figure 1, below).
6. Remove the glove box door (retain) (See Figure 1, below).
7. Remove the glove box (discard) (See Figure 1, below).
8. Remove the instrument panel (retain) (See Figure 1, below).
9. Remove the OEM control panel (retain). **NOTE: Refer to control panel instructions for installation of controls.**
10. Lower the steering column.



**Figure 1**



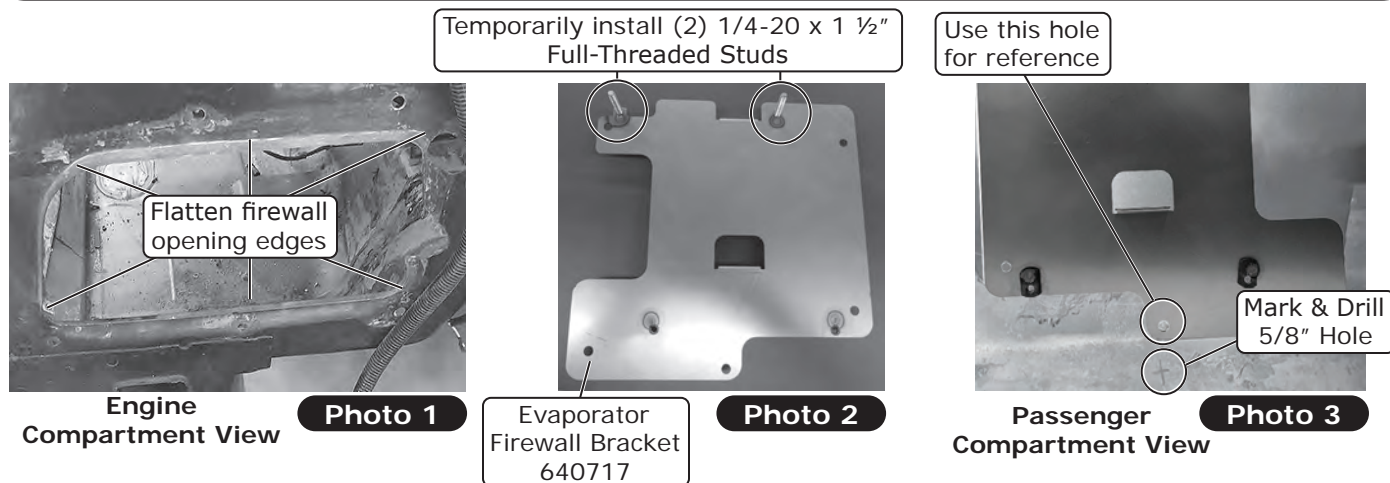


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## Firewall Modification

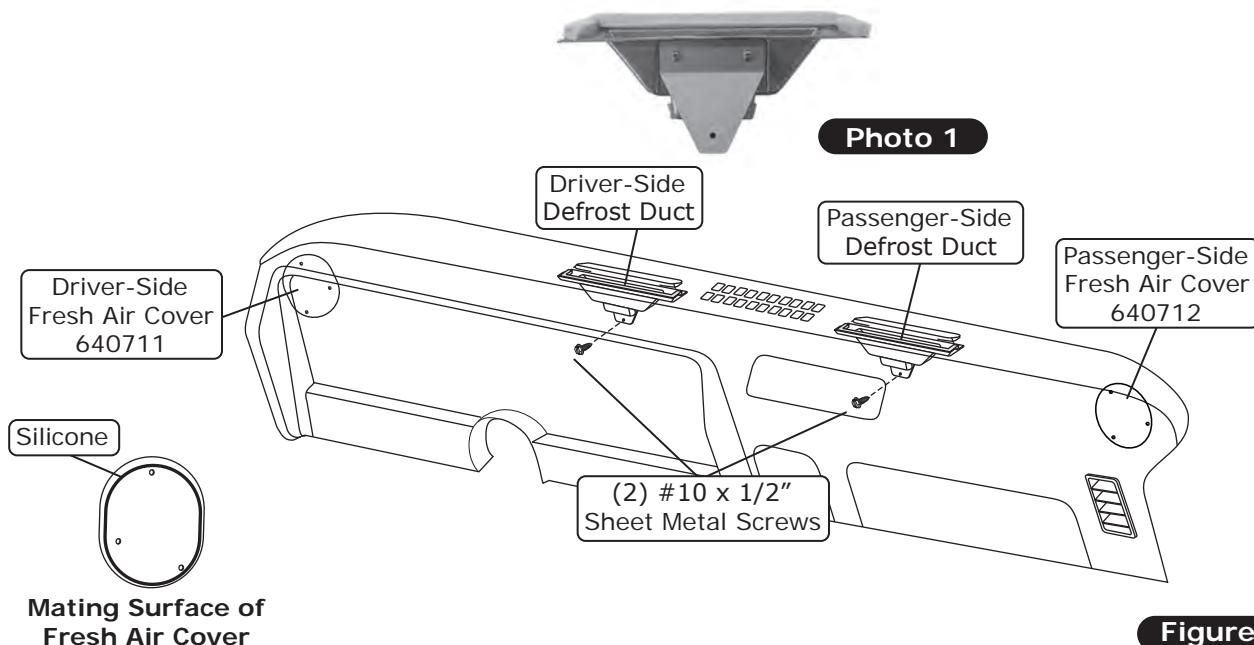
**NOTE: Firewall modification is required for firewall cover and drain hose installation.**

1. Flatten the edges of the firewall opening (See Photo 1, below).
2. Temporarily install (2) 1/4-20 x 1 1/2" studs into the evaporator firewall bracket as shown in Photo 2, below.  
**NOTE: This will align the bracket with the mounting holes in the firewall.**
3. From inside the passenger compartment, temporarily install the evaporator firewall bracket. Using the bottom hole on the evaporator firewall bracket as a reference, mark and drill a 5/8" hole for the drain hose as shown in Photo 3, below. **NOTE: To ensure a tight fit, do not enlarge the hole to more than 5/8".**
4. Remove the evaporator firewall bracket.



## Defrost Duct & Fresh Air Cover Installation

1. Locate the (2) defrost duct assemblies (See Photo 1, below)
2. Install the defrost ducts under the dash (See Figure 1, below). Align each defrost duct with the defrost opening in the dash, and hold it in place. Using the bracket as a template, drill a 7/64" hole for each duct as shown below. Secure each defrost duct using a #10 x 1/2" sheet metal screw (See Figure 1, below).
3. If the vehicle is equipped with astro ventilation, apply a 1/4" bead of silicone to the mating surface, and install the driver- and passenger-side fresh air covers, using the OEM hardware to secure (See Figure 1, below).

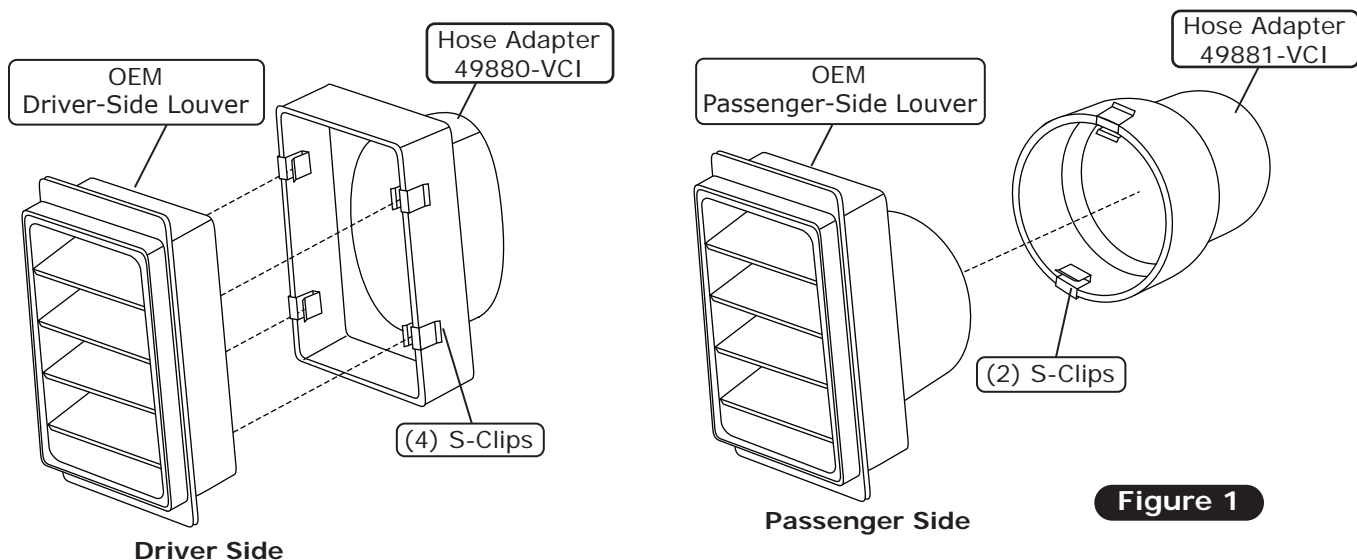




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## Hose Adapter Installation

1. Install (4) S-clips onto the driver-side hose adapter and (2) S-clips onto the passenger-side hose adapter as shown in Figure 1, below.
2. Install the driver- & passenger-side hose adapters onto the OEM louvers (See Figure 1, below).

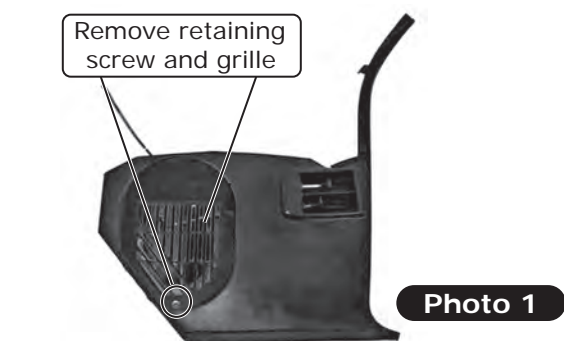


**Figure 1**

## Early-Model Kick Panel Modification

**NOTE: If the vehicle is equipped with a late-model kick panel, proceed to Page 11.**

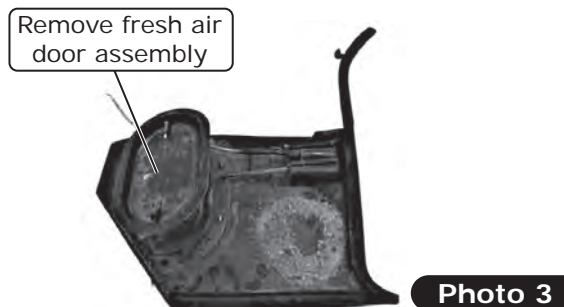
1. Remove the OEM kick panel grille retaining screw and grille (discard) (See Photo 1, below).
2. Disconnect, then remove the fresh air door cable from the OEM lever housing (discard) (See Photo 2, below).
3. Remove the fresh air door assembly from the OEM kick panel by lifting up on the door toward the spring and sliding it out of the hinge housing (See Photo 3, below).
4. Trim the fresh air door housing flush with the back of the OEM kick panel, then discard the excess material (See Photo 4, below).



**Photo 1**



**Photo 2**



**Photo 3**



**Photo 4**



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## Late-Model Kick Panel Modification

1. Remove the fresh air door assembly from the OEM kick panel by lifting up on the door toward the spring and sliding it out of the hinge housing (See Photo 1, below).
2. Disconnect, then remove the fresh air door cable from the OEM lever housing (discard) (See Photo 2, below).
3. Trim the fresh air door housing flush with the back of the OEM kick panel, then discard the excess material (See Photo 3, below).
4. Cut out the kick panel vent grille (See Photos 4 & 5, below).

Fresh Air Door Assembly

Lift door toward spring to remove

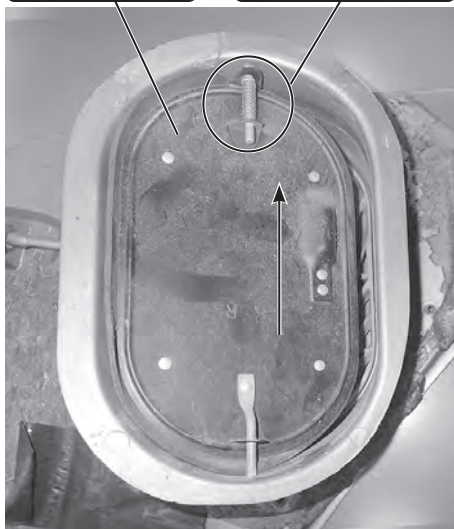


Photo 1

Disconnect fresh air door cable



Photo 2

Trim flush with kick panel housing

Fresh Air Door Housing

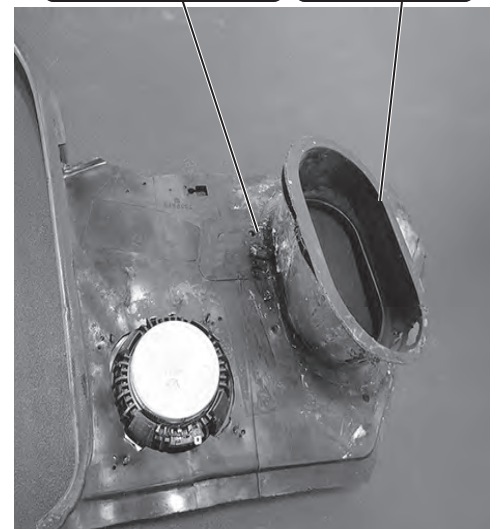


Photo 3

Cut out kick panel vent grille

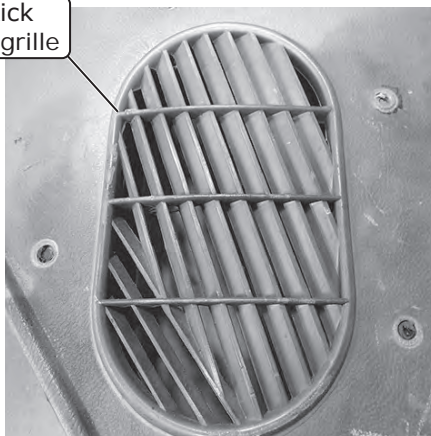


Photo 4

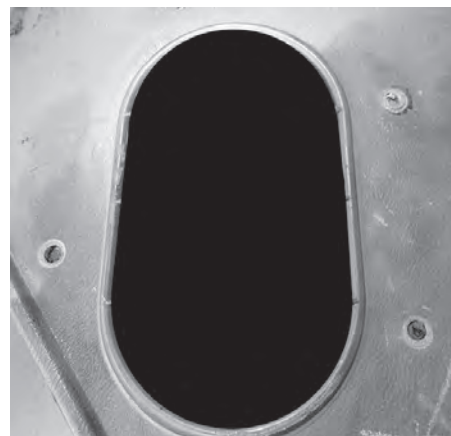


Photo 5



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## Firewall Cover Insulation

**NOTE:** For proper system operation, Vintage Air recommends using heat blocking insulation in the area around the evaporator unit (firewall, kick panel, inner cowl, firewall covers). Due to tight clearance for the evaporator unit between the firewall and dash, Vintage Air recommends an insulation thickness of no more than 1/4".

1. To apply insulation to the firewall cover, temporarily install the firewall cover onto the firewall using (2) 1/4-20 x 3/4" black serrated flange hex bolts and (2) 1/4-20 nuts with star washers (See Photo 1, below).
2. From the passenger compartment, trace the firewall opening onto the firewall cover (See Photo 2, below).
3. Remove the firewall cover, and apply insulation to the traced area (See Photo 3, below).

Temporarily install firewall cover with (2) 1/4-20 x 3/4" black serrated flange hex bolts & (2) 1/4-20 nuts with star washers

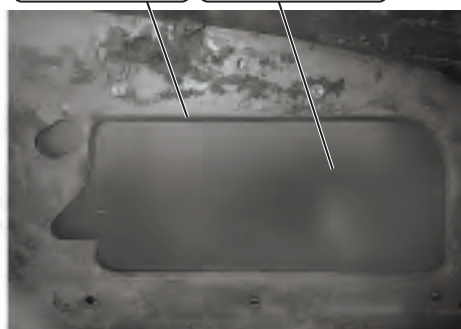


Firewall Cover  
640687

Photo 1

Trace firewall opening

Firewall Cover  
640687



Passenger  
Compartment View

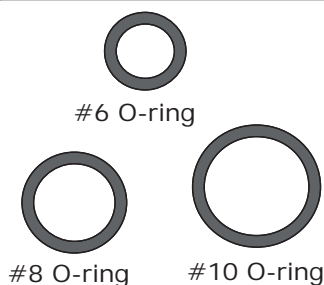
Photo 2

Apply insulation  
to traced area



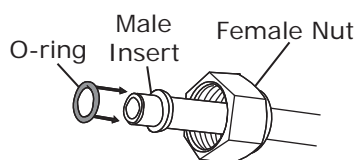
Photo 3

## Lubricating O-rings



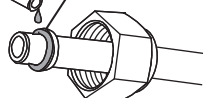
**NOTE:** Standard torque specifications:

- #6: 11 to 13 ft-lb.
- #8: 15 to 20 ft-lb.
- #10: 21 to 27 ft-lb.

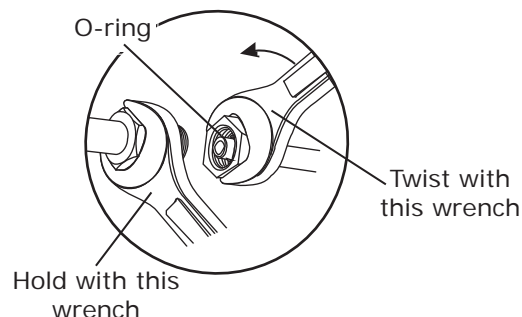


Refrigerant Oil  
for O-rings

O-ring installs  
over male insert  
to swaged lip



**For a proper seal of fittings: Install supplied O-rings as shown and lubricate with refrigerant oil.**







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## Evaporator Module Preparation

Perform the following on a workbench:

1. Install (3) 1/2" plastic plugs into the back of the evaporator module (See Photos 1, 2, 3 and 4, below).
2. Using a properly lubricated #10 O-ring (See Lubricating O-rings, Page 16), install the upper heater hardline onto the evaporator module (See Photo 5, below). **NOTE: Install the hardline facing down.**
3. Using a properly lubricated #10 O-ring (See Lubricating O-rings, Page 16, install the lower heater hardline onto the evaporator module (See Photo 6, below). **NOTE: Install the hardline facing down.**
4. Install the evaporator firewall bracket using (4) #10 x 5/8" screws (See Photos 7, 8 and 9, below).

Install 1/2" plastic plug into back of evaporator unit



Photo 1

1/2" plastic plug



Photo 2

Install (2) 1/2" plastic plugs

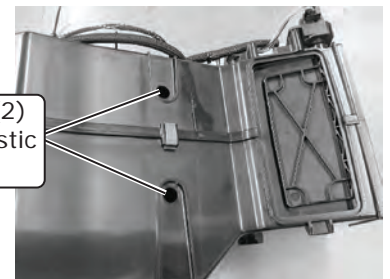


Photo 3

Install upper heater hardline onto evaporator module with properly lubricated #10 O-ring



Photo 4

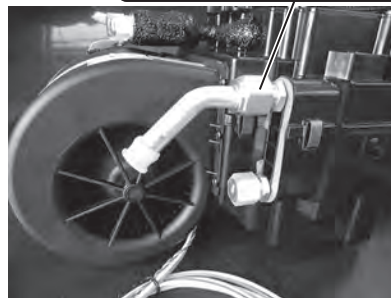


Photo 5

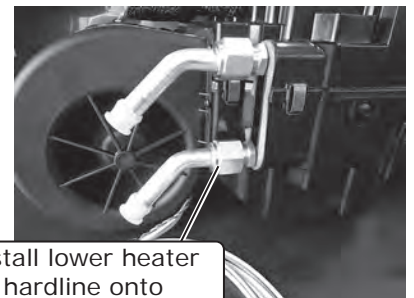


Photo 6

Install lower heater hardline onto evaporator module with properly lubricated #10 O-ring

Install evaporator firewall bracket (640717) onto evaporator module

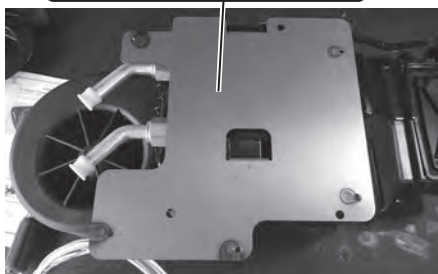


Photo 7

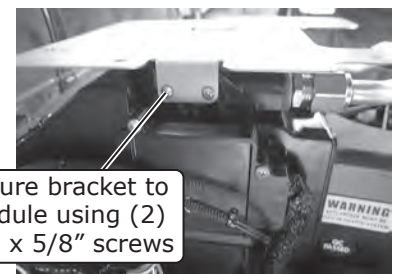
Secure bracket to module using (2) #10 x 5/8" screws



Bottom of Module View

Photo 8

Secure bracket to module using (2) #10 x 5/8" screws



Top of Module View

Photo 9





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## Evaporator Module Preparation (Cont.)

5. Install (2) 1/4-20 x 1 1/2" full-threaded studs into the (2) upper mounting holes on the evaporator firewall bracket (See Photo 10, below). **NOTE: Thread studs in a 1/4" of the way.**
6. Using (4) spring clips, install the dash plenum (See Photo 11, below).
7. Using (2) spring clips, install the floor plenum onto the back of the evaporator module (See Photo 12, below).
8. Using (2) spring clips, install the defrost plenum onto the front of the evaporator module (See Photo 13, below).

Install (2) 1/4-20 x 1 1/2"  
full-threaded studs into  
bracket a 1/4" of the way in

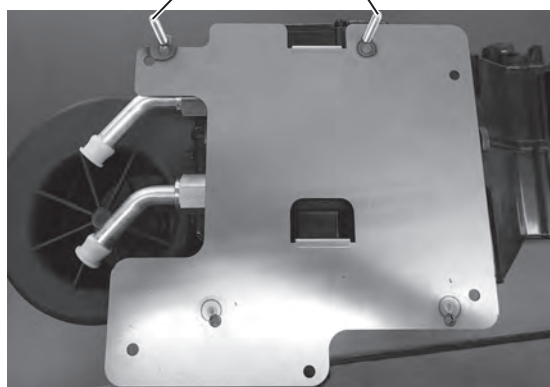
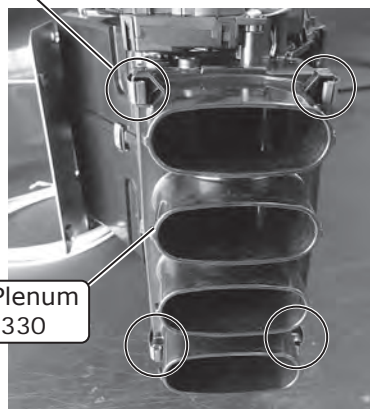


Photo 10

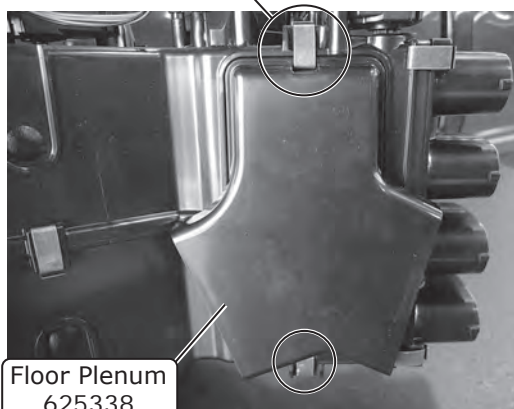
Secure dash plenum  
to module using (4)  
spring clips



Dash Plenum  
625330

Photo 11

Secure floor plenum  
to module using (2)  
spring clips



Floor Plenum  
625338

Photo 12

Secure defrost  
plenum to module  
using (2) spring clips



Defrost Plenum  
625331

Photo 13



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## Fresh Air Cap & Kick Panel Cover Preparation

1. Install (3) large, (1) 1 1/4" O.D. and (1) 7/8" O.D. grommets into the fresh air cap (See Photos 1 & 2, below).
2. Install (3) large, (1) 1 1/4" O.D. and (1) 7/8" O.D. grommets into the kick panel cover (See Photos 3 & 4, below).

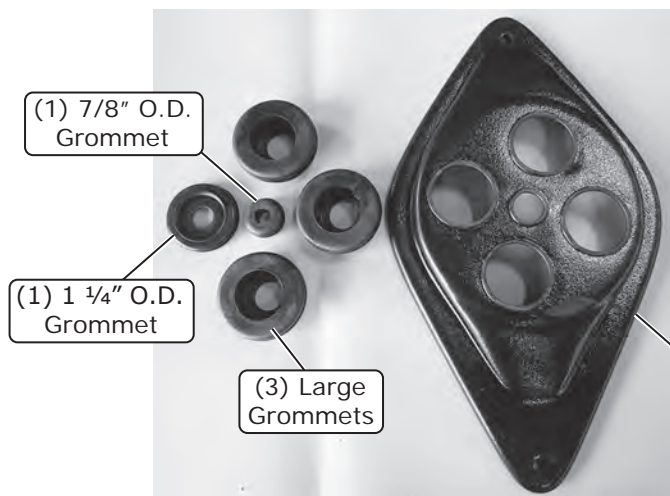


Photo 1

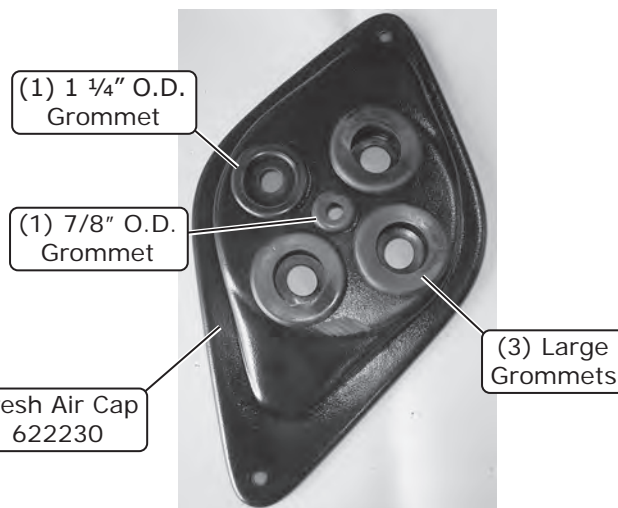


Photo 2

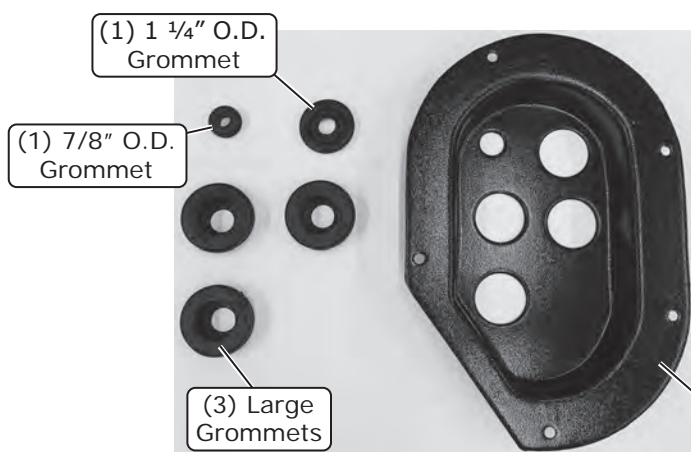


Photo 3

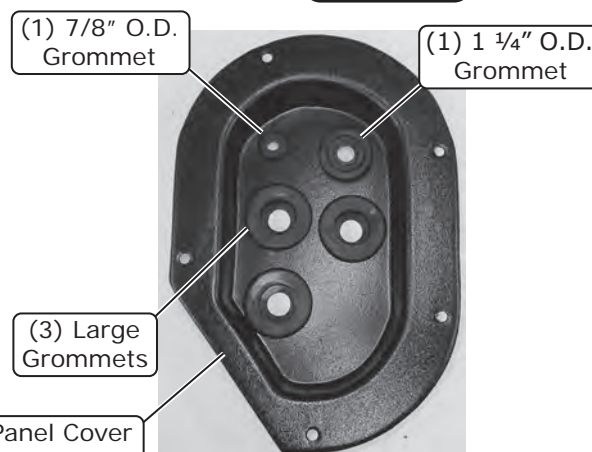
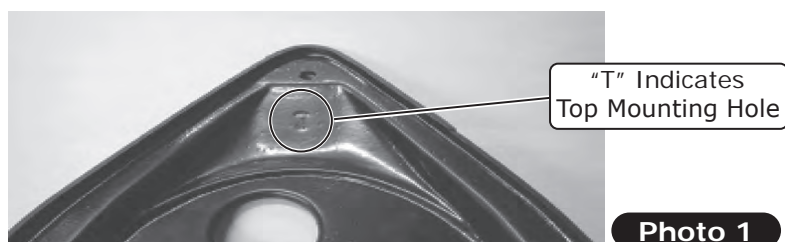


Photo 4

## Heater and A/C Hose Installation

**NOTE:** Soapy water may be used to ease insertion of A/C and heater hoses through the grommets, but be sure the hoses are capped to prevent water from getting inside.

1. On the inside of the fresh air cap, the letter "T" indicates the top mounting hole for the firewall (See Photo 1, below).

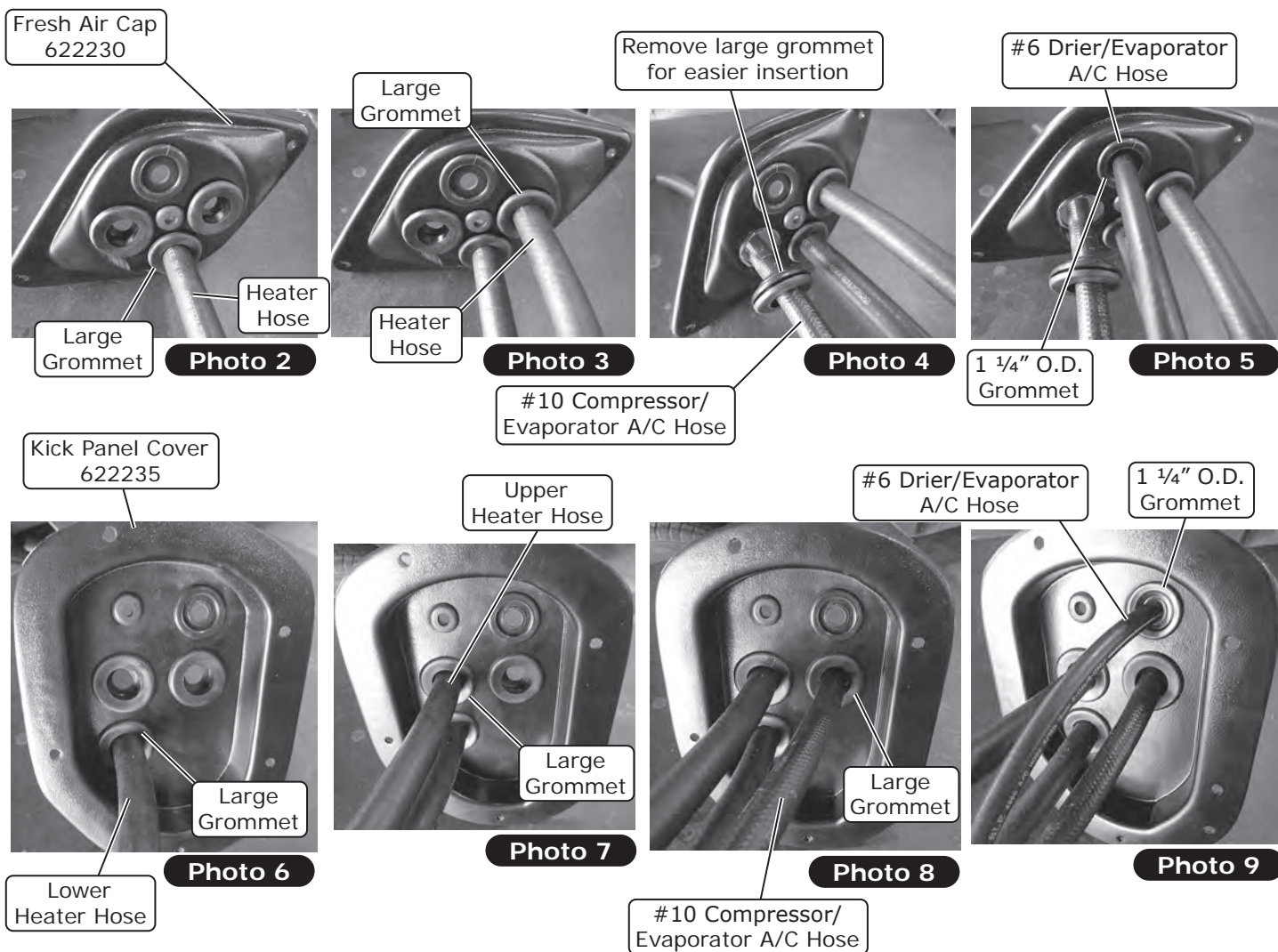




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## Heater and A/C Hose Installation (Cont.)

2. Insert a length of heater hose through the bottom-right large grommet on the fresh air cap (See Photo 2, below).
3. Insert a length of heater hose through the top-right large grommet on the fresh air cap (See Photo 3, below).
4. Insert the 45° fitting on the #10 compressor/evaporator A/C hose through the bottom-left large grommet on the fresh air cap (See Photo 4, below). **NOTE: Temporarily remove the large grommet from the fresh air cap to ease insertion of the #10 hose fitting.**
5. Insert the 45° fitting on the #6 drier/evaporator A/C hose through the top-left 1 1/4" O.D. grommet on the fresh air cap (See Photo 5, below).
6. From the passenger compartment, insert the lower heater hose through the bottom-left large grommet on the kick panel cover (See Photo 6, below).
7. Insert the upper heater hose through the top-left large grommet on the kick panel cover (See Photo 7, below).
8. Insert the #10 compressor/evaporator A/C hose through the bottom-right grommet on the kick panel cover (See Photo 8, below). **NOTE: Temporarily remove the grommet from the kick panel cover for easier insertion.**
9. Insert the #6 drier/evaporator A/C hose through the top-right large grommet on the kick panel cover (See Photo 9, below).





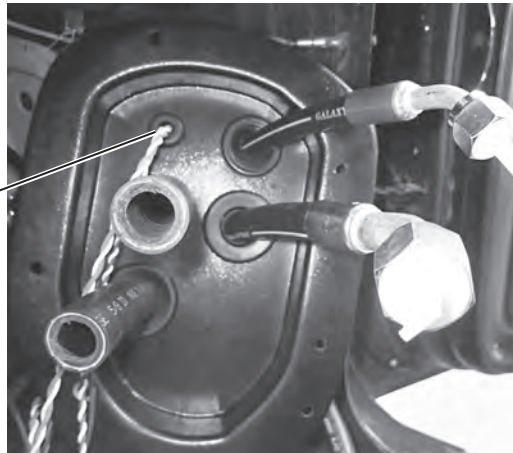


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## Wiring Installation

1. From the passenger compartment, route the heater control valve connector and wiring (white, yellow and purple), and the red, white and blue wires from the main wiring harness through the 7/8" O.D. grommet on the kick panel cover and into the 7/8" O.D. grommet on the fresh air cap (See Photo 1, below). **NOTE: Leave approximately 5" of wiring between the relay and the kick panel cover. This is to allow enough wiring to secure the relay to the mounting position.**
2. Place the evaporator module on the passenger-side floorboard and route the orange and white wires through the 7/8" O.D. grommet on the kick panel cover, then through the 7/8" O.D. grommet on the fresh air cap.

Route heater control valve connector and wiring (white, yellow and purple), and red, white and blue wires from main wiring harness through 7/8" O.D. grommet on kick panel cover and into 7/8" O.D. grommet on fresh air cap



**NOTE: Leave approximately 5" of wiring between relay and kick panel cover to allow enough wiring to secure relay to mounting position.**

Photo 1

## Kick Panel Installation

1. Apply a bead of silicone around the mating surface of the kick panel cover (See Figure 1, below).
2. Install the kick panel cover into place, lining up the mounting holes on the cover with the OEM mounting holes on the kick panel opening (See Photo 1, below).

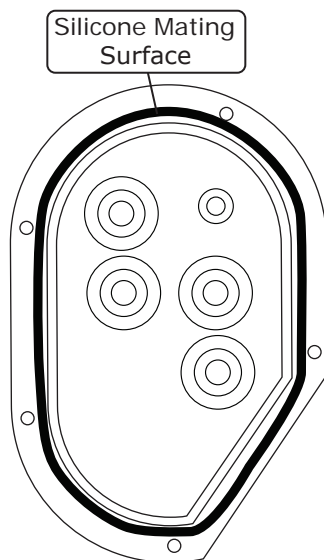


Figure 1

Install kick panel cover into place, lining up mounting holes

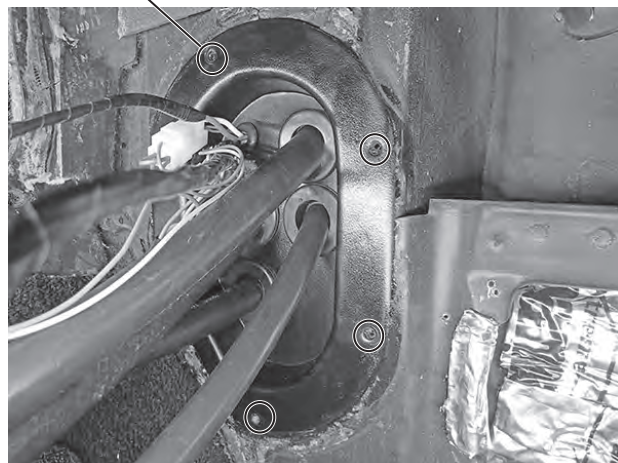


Photo 1



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## Kick Panel Installation (Cont.)

3. Install the kick panel, routing the hoses and wiring through the opening (See Photo 2, below). For an early-model kick panel, secure the panel with the trim plate using (3) #8 x 3/4" countersunk washer screws (See Photo 3, below). For a late-model kick panel, do not install the trim plate. Secure the kick panel using (3) #8 x 3/4" countersunk washer screws.
4. Secure the main wiring harness relay to the upper kick panel mounting hole using a #8 x 1 1/4" countersunk washer screw, mounting it in the hole as shown in Photo 4, below. **NOTE: If your vehicle is equipped with a kick panel vacuum vent actuator cover, it will need to be modified to fit with the installed hoses** (See Photo 5, below).

Install Kick Panel

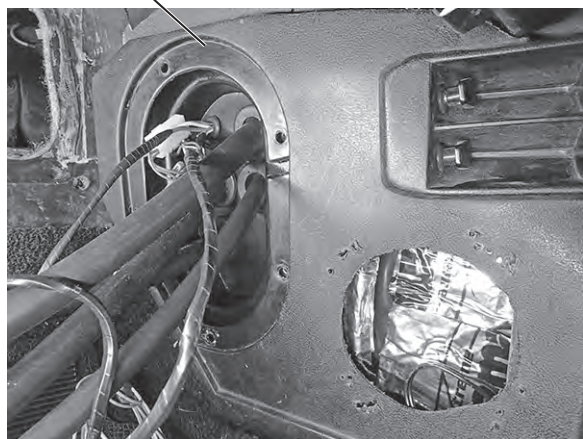


Photo 2

Kick Panel Trim Plate  
640709

(3) #8 x 3/4" Countersunk  
Washer Screws



Photo 3

Secure relay to upper  
mounting hole using #8 x 1 1/4"  
countersunk washer screw



Photo 4

Modified OEM Kick Panel  
Vacuum Vent Actuator Cover

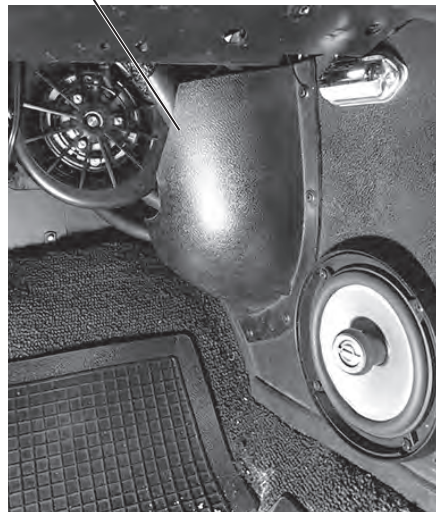


Photo 5





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## Evaporator Installation

**NOTE: A 10" block of wood may be used to support the evaporator unit while the following steps are completed. To ensure a watertight seal between the passenger compartment and the vehicle exterior, for all bolts passing through the firewall, Vintage Air recommends coating the threads with silicone prior to installation.**

1. Install the upper heater hose and a hose clamp onto the upper heater hardline on the evaporator module (See Photo 1, below).
2. Install the lower heater hose and a hose clamp onto the lower heater hardline on the evaporator module (See Photo 2, below).
3. Roll the evaporator into it's mounting position. Insert the (2) 1/4-20 x 1 1/2" full-threaded studs into the upper OEM mounting holes on the firewall (See Photo 3, below).
4. Using a properly lubricated #6 O-ring (See Lubricating O-rings, Page 12), install the 45° fitting on the #6 drier/evaporator A/C hose onto the block-valve adapter on the evaporator module (See Photo 4, below).
5. Using a properly lubricated #10 O-ring (See Lubricating O-rings, Page 12), install the 45° fitting on the #10 compressor/evaporator A/C hose onto the #10 fitting on the block-valve adapter on the evaporator module (See Photo 5, below). **NOTE: After installing the #10 compressor/evaporator A/C hose, wrap all exposed metal with the supplied press tape (See Photo 6, below).**

Install upper heater hose  
onto upper heater hardline



Photo 1

Install lower heater hose  
onto lower heater hardline

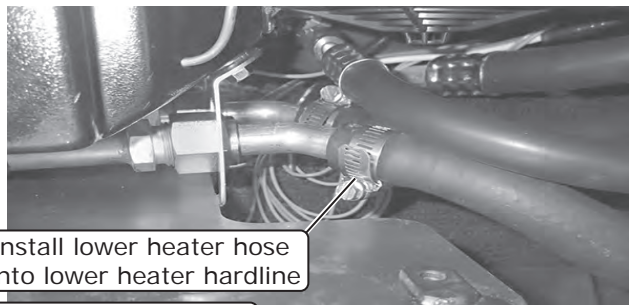


Photo 2

Install 45° fitting on #6  
drier/evaporator A/C hose  
onto block-valve adapter



Photo 4

Insert (2) 1/4-20 x 1 1/2" full-  
threaded studs into upper OEM  
mounting holes on firewall

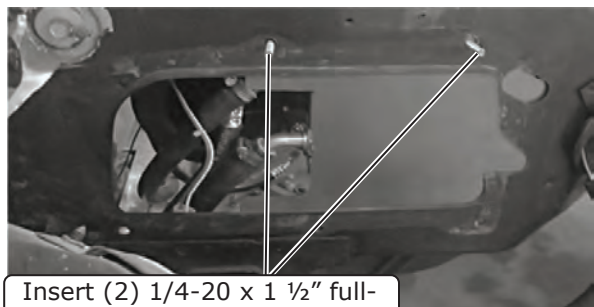


Photo 3

Install 45° fitting on #10  
compressor/evaporator  
A/C hose onto block-valve  
adapter



Photo 5

Wrap all exposed metal  
with supplied press tape

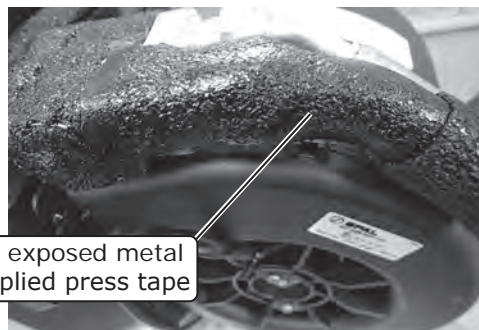


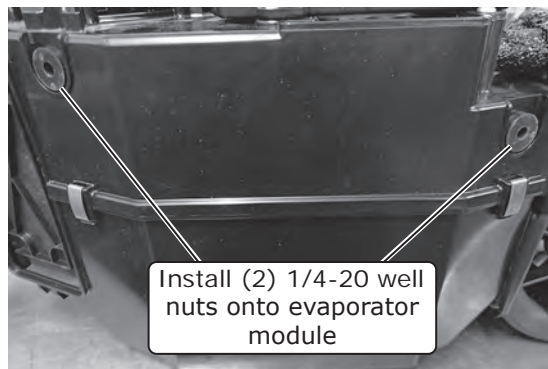
Photo 6



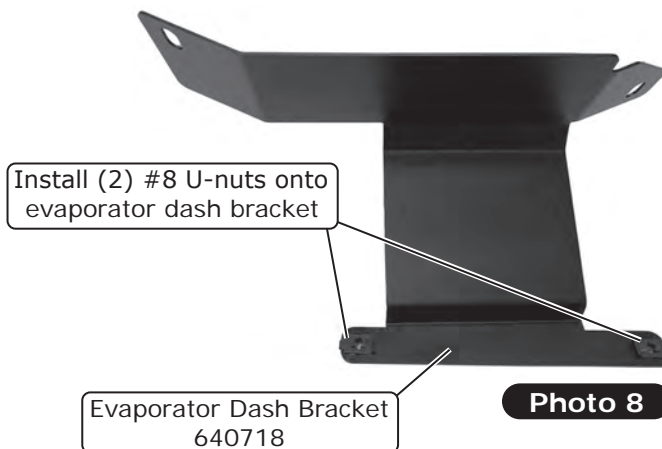
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## Evaporator Installation (Cont.)

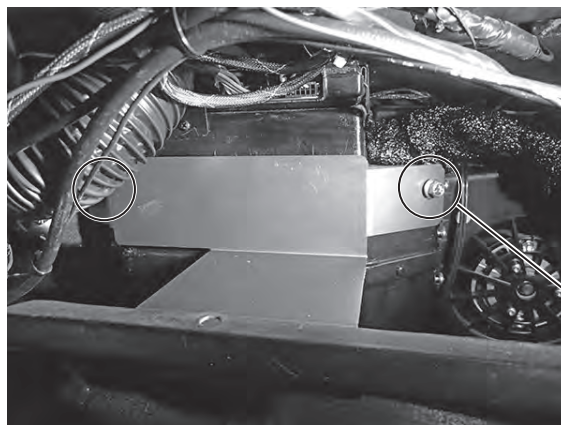
6. Install (2) 1/4-20 well nuts onto the evaporator module (See Photo 7, below).
7. Install (2) #8 U-nuts onto the evaporator dash bracket (See Photo 8, below).
8. Position the evaporator dash bracket under the glove box door mounting holes, then secure it onto the evaporator unit using (2) 1/4-20 x 1" serrated flange hex bolts (See Photo 9, below).



**Photo 7**



**Photo 8**



**Photo 9**

## Drain Hose Installation

1. Install the drain hose through the previously drilled 5/8" hole in the firewall. Attach the drain hose onto the drain outlet on the bottom of the evaporator module (See Photo 1, below).



**Photo 1**

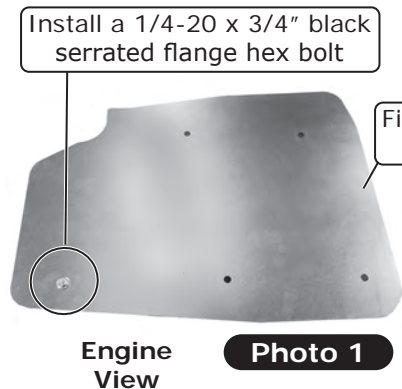


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## Firewall Cover Installation

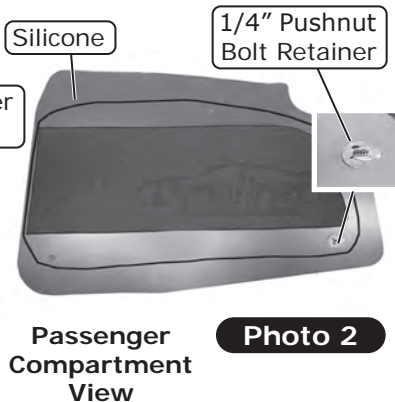
**NOTE:** To ensure a watertight seal between the passenger compartment and the exterior, for all bolts passing through the firewall, Vintage Air recommends coating the threads with silicone prior to installation.

1. Locate the bottom left mounting hole on the firewall cover, and install a 1/4-20 x 3/4" mounting bolt and a 1/4" pushnut bolt retainer (See Photos 1 & 2, below).
2. Apply a bead of silicone around the mating surface of the firewall cover (See Photo 2, below).
3. Install the firewall cover over the (2) 1/4-20 x 1 1/2" full-threaded studs, and secure it using (2) 1/4-20 nuts with star washers to keep the firewall cover and evaporator unit in place (See Photo 3, below).
4. Install (2) 1/4-20 x 3/4" black serrated flange hex bolts into the remaining open mounting holes in the firewall cover and into the evaporator firewall bracket (See Photo 4, below). **NOTE: Do not fully tighten at this time.**
5. Remove the (2) 1/4-20 nuts with star washers and (2) 1/4-20 x 1 1/2" full-threaded studs from the firewall cover, and replace them with (2) 1/4-20 x 3/4" black serrated flange hex bolts (See Photo 5, below). **NOTE: Do not fully tighten at this time.**
6. In the passenger compartment, install a 9/32" washer and a 1/4-20 nut with star washer onto the bottom-right firewall cover bolt as shown in Photo 6, below. **NOTE: Do not fully tighten at this time.**
7. Verify that the evaporator unit is level and square to the dash. **NOTE: To ensure proper drainage, it is very important that the evaporator is level, both left-right and fore-aft. Check for level on the flat portions of the case around the drain.**
8. Tighten all of the mounting bolts at this time. **NOTE: Tighten the bolts on the firewall first. Adjust the evaporator dash bracket as needed, then tighten the bolts on the evaporator unit. Silicone or seam sealer may be applied around the outer edge of the firewall cover.**



Engine View

Photo 1



Passenger Compartment View

Photo 2

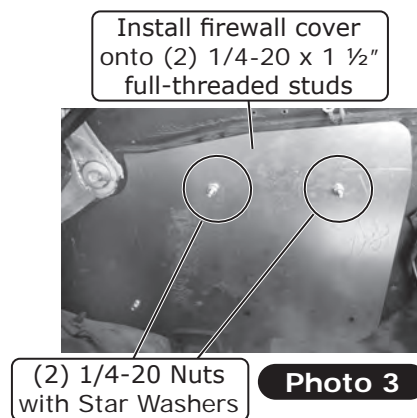


Photo 3

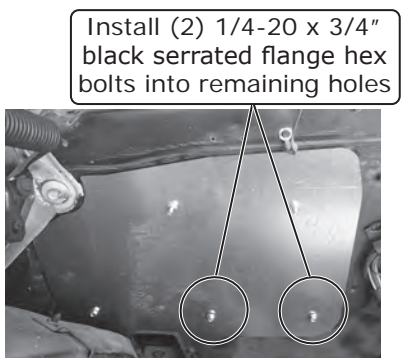


Photo 4

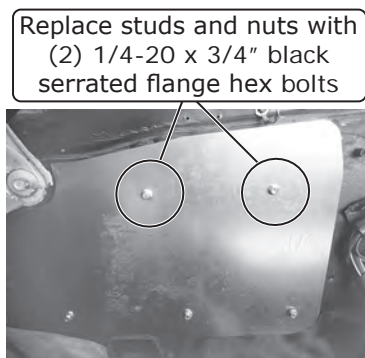
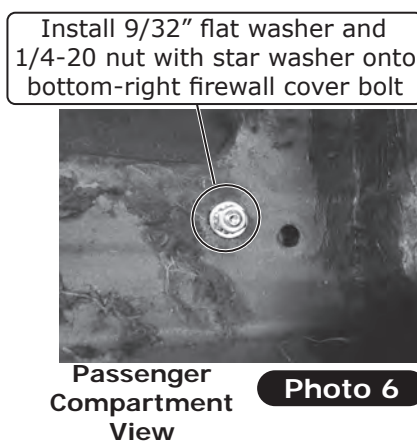


Photo 5



Passenger Compartment View

Photo 6





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## Passenger Compartment Wiring

1. Select a suitable ground location for the white ground wire eyelet from the heater control valve harness, and secure it using a #10 x 1/2" sheet metal screw.
2. Route the violet power wire to a switched 12v power source on the fuse panel (See Photo 1, below).  
**NOTE: This requires a male fuse extension (not supplied).**
3. Connect the tan wire to the factory dash lights to enable control panel backlighting (if applicable).
4. Connect the BSC wiring to the main harness (See Photo 2, below).
5. Connect the main harness to the ECU (See Photo 3, below).

Attach Violet Wire to  
Switched Power Source



Photo 1

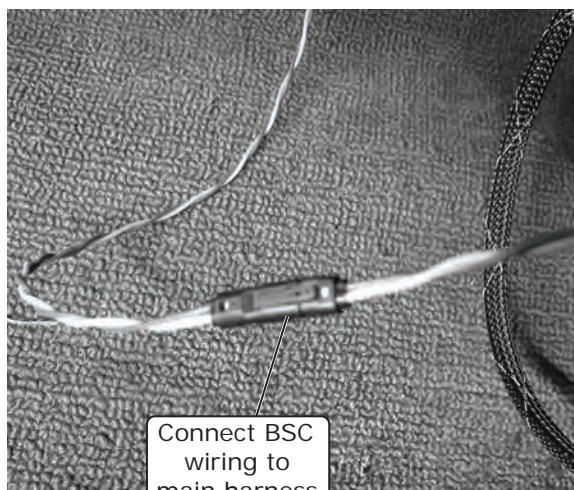


Photo 2

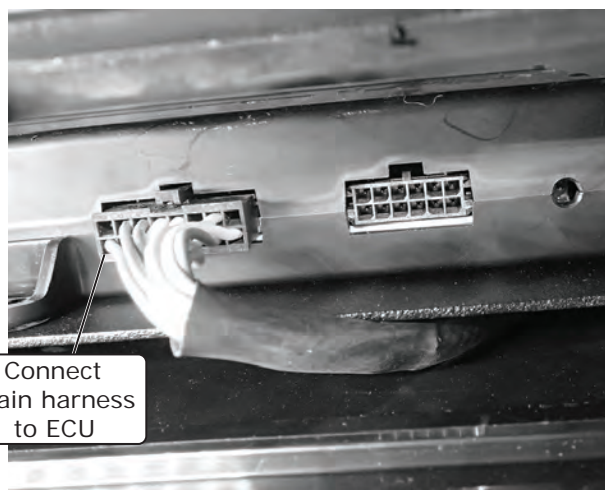


Photo 3



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## ECU, Control Panel & Duct Hose Routing

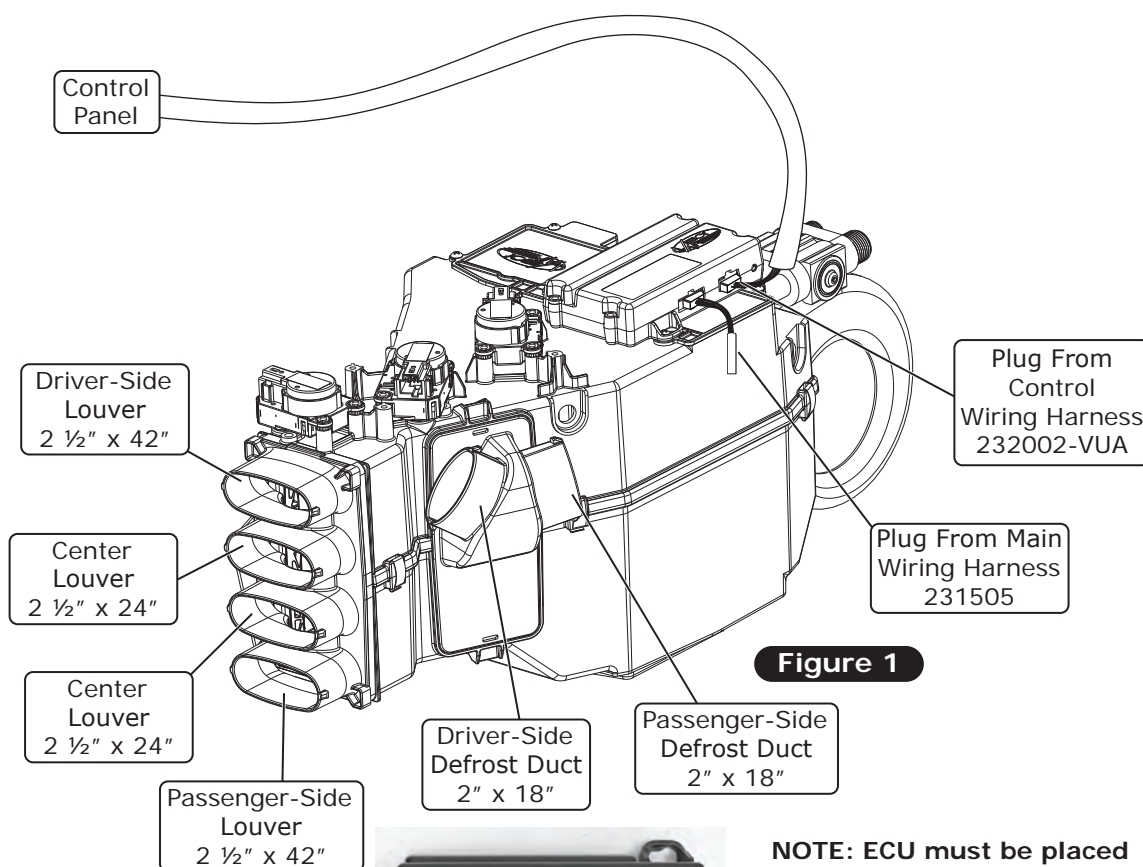
**NOTE:** For the system to function optimally, the duct hoses must be routed as directly as possible, taking care to avoid kinks, sharp bends and unnecessary length. Vintage Air supplies duct hoses in continuous lengths that will need to be cut to size depending on application. Before cutting, familiarize yourself with the installation instructions and verify the routing will work with your application. For custom hose routing, additional hose may be needed and can be purchased from Vintage Air.

1. Stretch the duct hose until there is no slack, measure, mark and cut hose to size (See Photo 1, below).

Stretch, measure,  
mark and cut  
hose to size



**Photo 1**



**Figure 1**



**NOTE:** ECU must be placed away from water and humidity, and also be accessible for servicing. If relocating, connectors must be positioned towards the bottom.

Position connectors  
towards bottom





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## Fresh Air Cap Installation

1. Gently pull the slack from the hoses in the passenger compartment, making sure the hoses are not kinked.
2. Slide the fresh air cap into position, and secure it to the firewall using (2) #14 x 3/4" sheet metal screws (See Photo 1, below).
3. Apply silicone around the outer edge of the fresh air cap (See Photo 1, below).

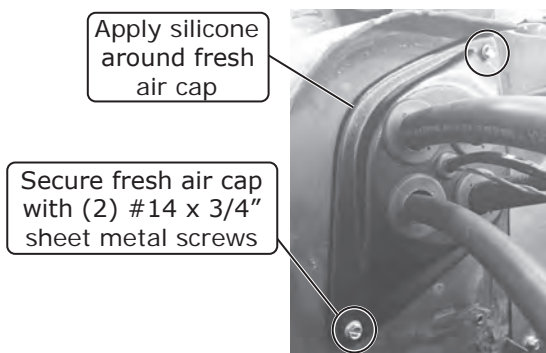


Photo 1

## A/C Hose Installation

### Standard Hose Kit:

1. Locate the #8 condenser/compressor A/C hose. Lubricate (2) #8 O-rings (See Lubricating O-rings, Page 12), and connect the #8 90° fitting with service port to the #8 discharge port on the compressor (See Photo 2, below). Then route the 45° fitting to the #8 condenser/core hardline coming from the condenser (See Photo 3, below). Tighten each fitting connection (See Lubricating O-rings, Page 12).
2. Locate the #10 compressor/evaporator A/C hose. Lubricate a #10 O-ring (See Lubricating O-rings, Page 12), and connect the #10 135° fitting with service port to the #10 suction port on the compressor (See Photo 2, below). Tighten the fitting connection (See Lubricating O-rings, Page 12).
3. Locate the #6 drier/evaporator hose. Lubricate a #6 O-ring (See Lubricating O-rings, Page 12), and connect it to the #6 drier/fenderwell hardline coming from the condenser (See Photo 3, below). Tighten the fitting connection (See Lubricating O-rings, Page 12).

### Modified Hose Kit:

1. Refer to separate instructions included with modified hose kit.



Photo 1

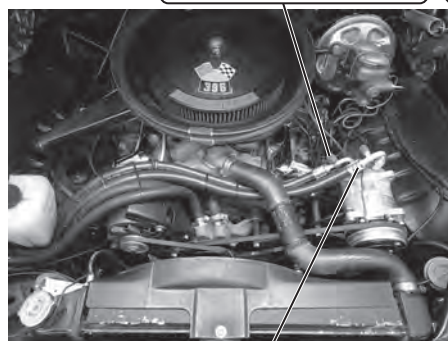


Photo 2

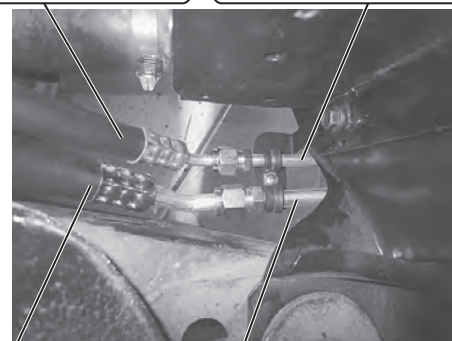


Photo 3

#8 Compressor/  
Evaporator A/C Hose  
090175

#6 Drier/Evaporator  
A/C Hose  
090174

#6 Drier/Fenderwell  
Hardline  
090173

#10 Compressor/  
Evaporator A/C Hose  
090176

#8 Compressor/  
Evaporator A/C Hose  
090175

#8 Condenser/  
Core Hardline  
35367-VCG



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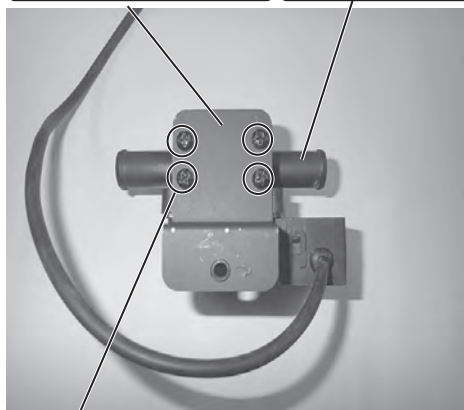
## Heater Control Valve Installation

**NOTE:** Vintage Air Systems use 5/8" heater connections. On engines equipped with 3/4" hose nipples, these will need to be removed and replaced with 5/8" nipples (not supplied). For water pumps with a cast-in 3/4" heater outlet, a 3/4" x 5/8" reducer fitting in the heater hose (not supplied) or molded hose (Vintage Air Part #099010) will need to be installed.

1. Install the heater control valve support bracket onto the heater control valve using (4) #8 x 1/2" screws (See Photo 1, below). **NOTE:** Before mounting the heater control valve in the vehicle, ensure that the wiring from the main harness and heater control valve can be connected easily without tension or strain on the connection, or excessive pressure on the metal surfaces.
2. Route a piece of heater hose (not provided) from the lower heater core fitting to the water pump. Secure using hose clamps. (See Photo 2, below).
3. Route a piece of heater hose (not provided) from the intake manifold to the heater control valve. Connect the heater hose from the upper heater core fitting to the heater control valve. Secure using hose clamps (See Figure 1 and Photo 3, below). **NOTE:** Ensure proper flow direction through the heater control valve (the flow direction follows the molded arrow on the valve).
4. Plug the heater control valve connector into the connector on the main wiring harness (See Photo 4, below).
5. Install a 3/4" I.D. Adel clamp to secure the #8 A/C hose, then secure the heater hoses using tie wraps (See Photo 5, below). **NOTE:** Use an OEM hole to mount the Adel clamp. If an OEM hole is not available, a new hole will need to be drilled. Be sure all hoses are routed away from the fan, belts and pulleys.

Heater Control Valve  
Support Bracket  
648284

Heater Control  
Valve  
461171



(4) #8 x 1/2"  
Screws

Photo 1

Route hose from lower heater  
core fitting to water pump

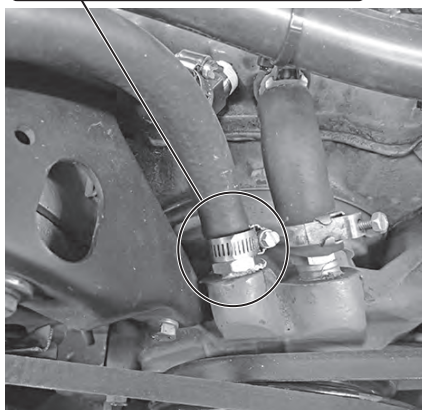


Photo 2

Intake manifold  
connection

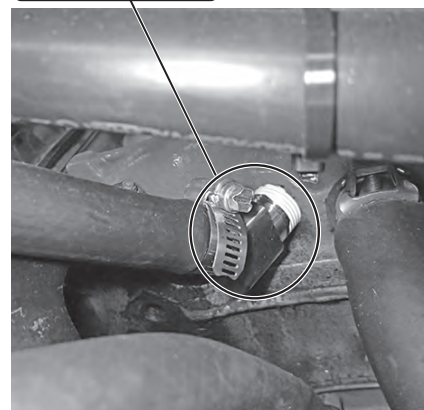
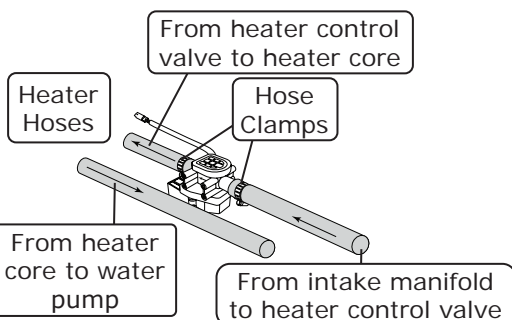


Photo 3



**NOTE:** Flow Direction Follows Molded Arrow on Valve.

Figure 1

Heater Control  
Harness Connector

Heater Control  
Valve Connector

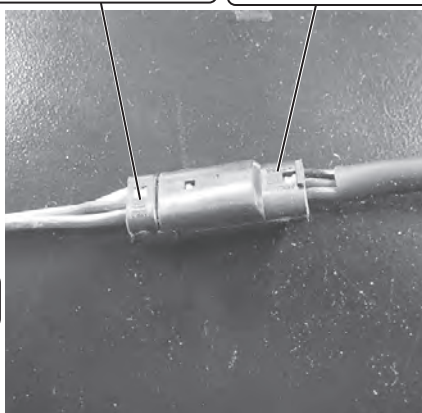


Photo 4

Install a 3/4" I.D.  
Adel Clamp

Secure hoses  
with tie wraps

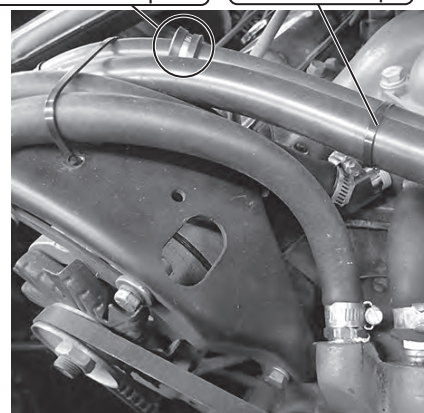


Photo 5



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## Quality Crimp Guideline

Acceptable strip length  
(Some copper visible)

Crimped area is centered  
on each side of splice

Bad strip length  
(Too much copper visible)  
Visible copper should be  
just enough to ensure  
clearance between splice  
area and wire insulation

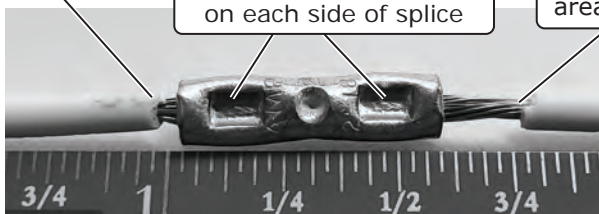


Photo 1

A good crimp requires  
seam of butt splice to be  
opposite of crimp die tooth

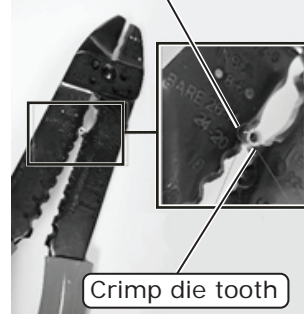


Photo 2

### Good Ring Terminal Crimp Bad Ring Terminal Crimp

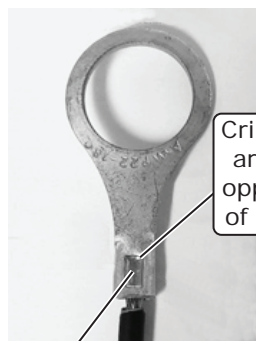


Photo 3

Crimp  
area is  
centered  
on barrel

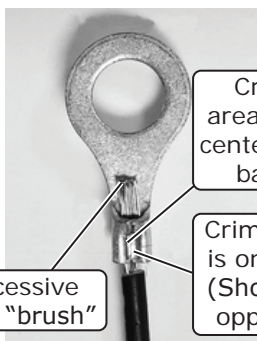


Photo 4

Excessive  
wire "brush"

Crimp  
area is not  
centered on  
barrel  
  
Crimp area  
is on seam  
(Should be  
opposite)

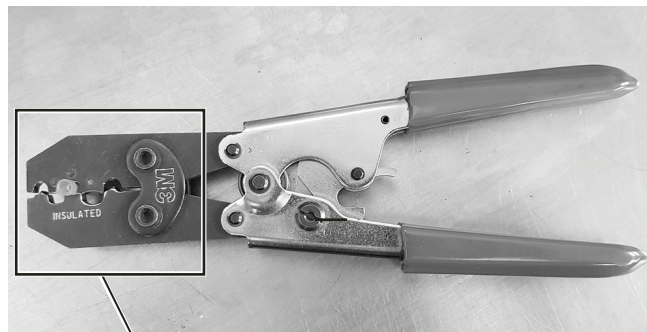


Photo 5

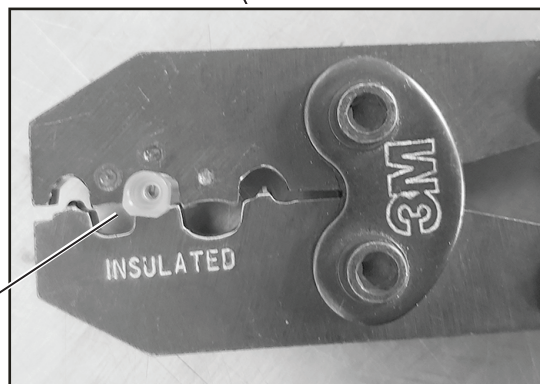


Photo 5a

Use a ratcheting crimp tool  
for insulated barrel terminals  
when crimping the provided  
female insulated terminal.  
Ensure terminal is inserted in  
appropriate position before  
crimping.





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## Engine Compartment Wiring

1. Route the blue lead from the main wiring harness to the safety switch (See Photo 1, below).
2. Connect the compressor lead wire to the safety switch (See Photo 1, below).
3. Wrap the safety switch wiring with flexo sleeve, and secure it with the supplied tie wraps (See Photo 2, below).
4. Route power and ground wires toward the battery.
5. Install the supplied heat shrink over the 12 AWG orange fuse holder assembly wire, and crimp it to the 12 AWG orange wire from the main wiring harness (See Photo 3, below and Quality Crimp Guidelines, Page 26).
6. Install the supplied heat shrink over the 16 AWG black fuse holder assembly wire, and crimp it to the 16 AWG red wire from the main wiring harness (See Photo 4, below and Quality Crimp Guidelines, Page 26).

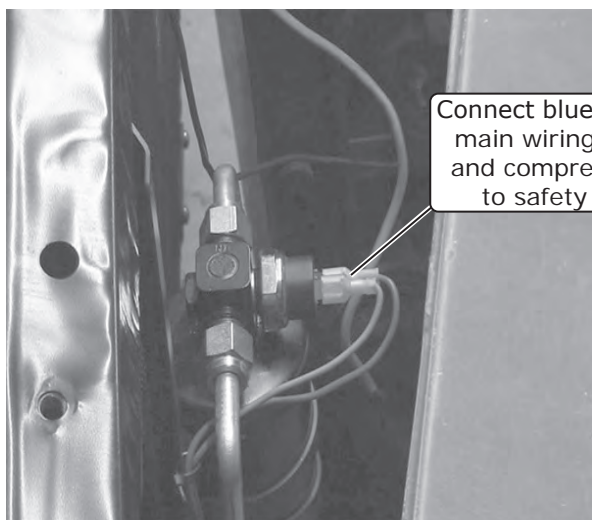


Photo 1

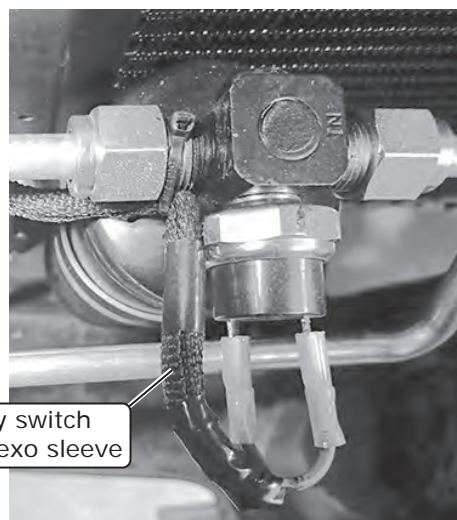


Photo 2

Install supplied heat shrink over 12 AWG orange fuse holder assembly and crimp to 12 AWG orange wire from main wiring harness

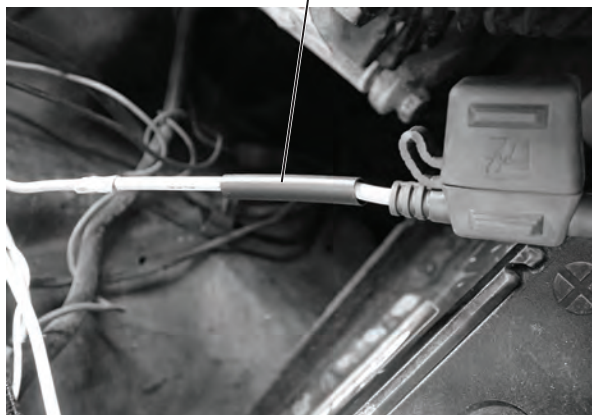


Photo 3

Install supplied heat shrink over 16 AWG black fuse holder assembly wire and crimp to 16 AWG red wire from main wiring harness

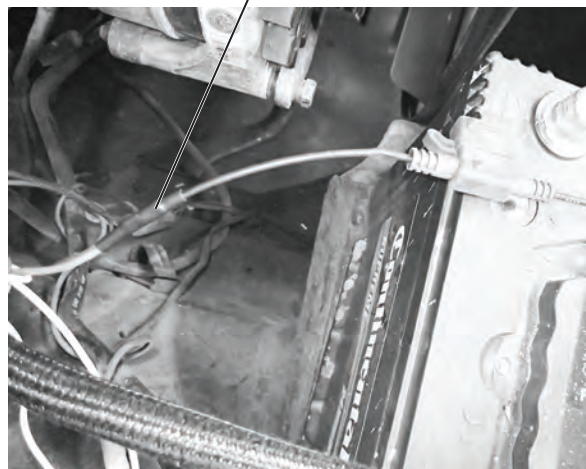


Photo 4



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## Engine Compartment Wiring (Cont.)

7. Install fuses into the holders (See Photo 5, below).
  8. Install the supplied heat shrink over the white ground wires, then crimp on the supplied eyelets (See Photos 6 and 7, below and Quality Crimp Guidelines, Page 26)
  9. Connect the ground wiring eyelets to the negative battery terminal connector (See Photo 8, below).
  10. Connect the positive wiring eyelets to the positive battery terminal connector (See Photo 9, below).
- NOTE: Do not connect power until installation is completed.**

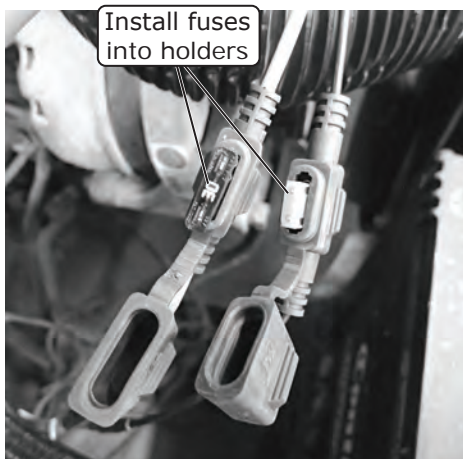


Photo 5

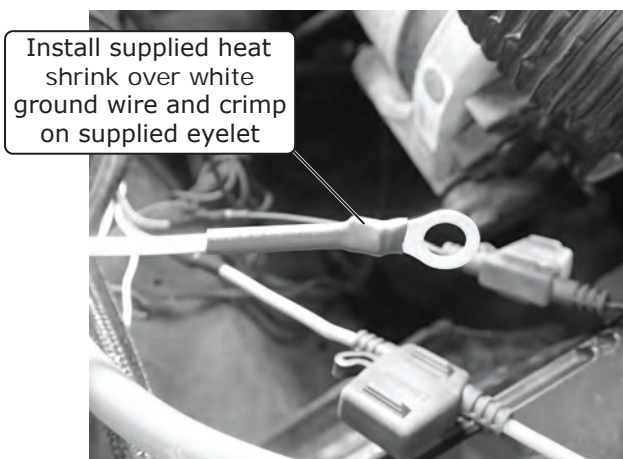


Photo 6

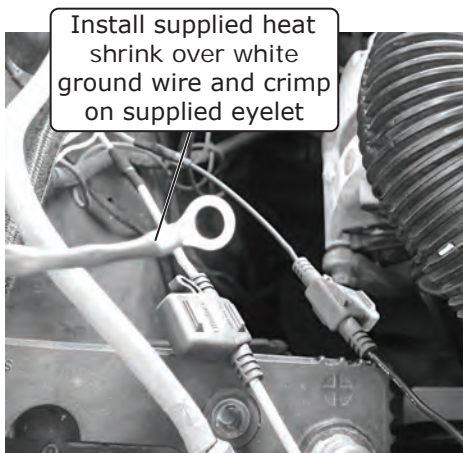


Photo 7

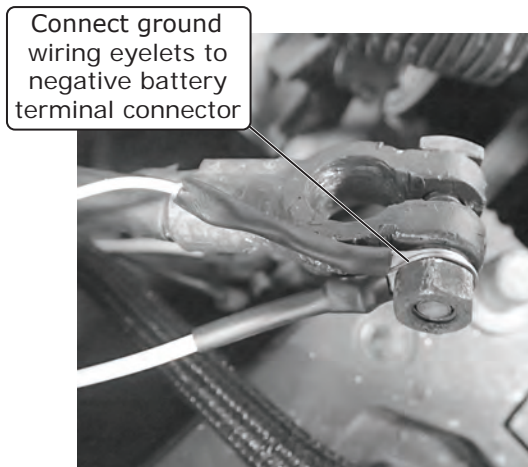


Photo 8

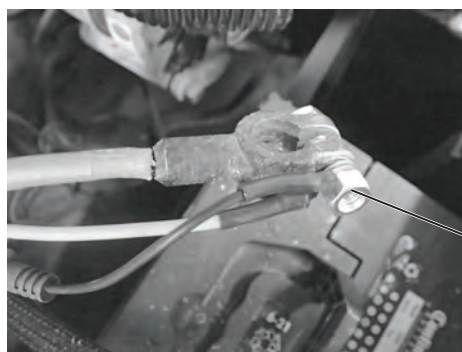


Photo 9

**NOTE: Do not connect power until installation is completed.**

Connect positive wiring eyelets to positive battery terminal connector





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## Center Louver Installation

1. Install the center louver duct hose adapter onto the center louver bezel using (2) S-clips as shown in Figure 1, below.
2. Attach (2) 25" lengths of 2 1/2" duct hose to the center louver as shown in Figure 2, below.
3. Using (4) #8 x 3/4" countersunk screws, secure the center louver assembly to the dash as shown in Figure 3 and Photo 1, below. **NOTE: Vintage Air recommends using a bead of silicone around the mating surface of the center louver bezel before installing it into the dash (See Figure 4, below).**

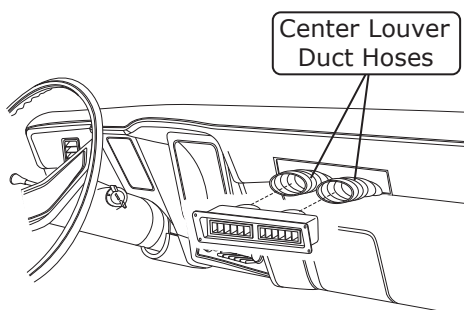
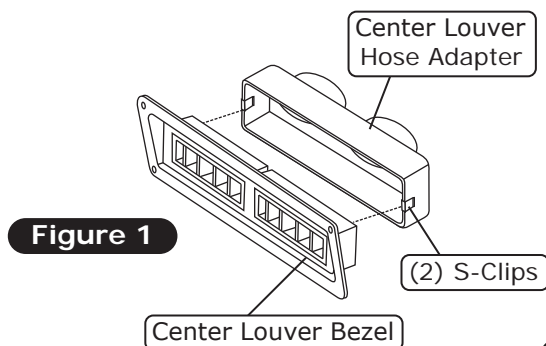


Figure 2

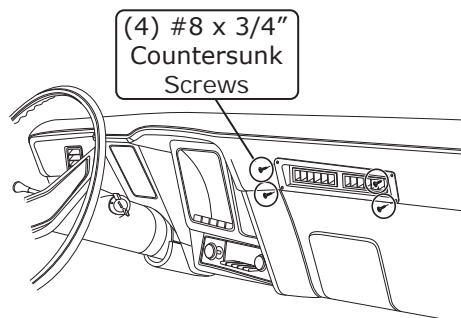


Figure 3

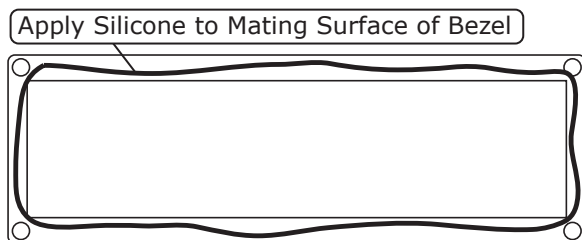


Figure 4

Install Center Louver Assembly into Dash



Photo 1



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## Final Steps: Installation Check

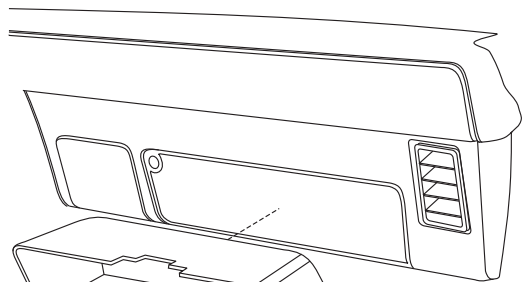
Installation Check	
ITEM TO CHECK	Procedure
<input type="checkbox"/> ECU	<p>If no blinking is observed after 1 minute of turning the ignition on, go to the next check.</p> <p>If repetitive blinking is observed, go to the <b>Advanced Diagnostics</b> Section to diagnose.</p>
<input type="checkbox"/> Blower speed control	<p>Set the blower speed control to <b>OFF</b>, <u>confirm that the blower is off</u>.</p> <p>Position the blower speed control to <b>LOW</b> then <b>MEDIUM</b> and then <b>HIGH</b>. <u>At each setting confirm that the blower speed increases</u>, do this by feeling for the amount of air coming from the unit and hearing the blower speed increase.</p>
<input type="checkbox"/> Mode control	<p>Set the <b>MODE</b> control to the <b>DASH</b> position. <u>Confirm that air is being blown at the dash vents.</u></p> <p>Set the <b>MODE</b> control to the <b>FLOOR</b> position. <u>Confirm that air is being blown at the floor vents.</u></p> <p>Set the <b>MODE</b> control to the <b>DEFROST</b> position. <u>Confirm that all air is being blown from the defrost vents</u></p> <p><b>If heater lines are installed:</b></p> <p>Set the <b>MODE</b> control to the <b>DASH</b> position. Set the <b>TEMP</b> control to the <b>MAX HEAT</b> position. <u>Confirm that HOT air is coming from the dash vents.</u></p>
<input type="checkbox"/> Temperature control	<p><b>If system is charged:</b></p> <p>Set the <b>TEMP</b> control to the <b>MAX COOL</b> position. <u>Confirm that COLD air is coming from the dash vents.</u></p> <p>Also <u>confirm that the compressor "clicks" on</u> when adjusting the <b>TEMP</b> control from the <b>MAX HEAT</b> position to the <b>MAX COOL</b> position.</p>
<input type="checkbox"/> AC Indicator (If applicable)	<p>While the <b>MODE</b> control is set to the <b>DASH</b> position, and the <b>TEMP</b> control is set to the <b>MAX COOL/MIN HEAT</b> position, <u>confirm that the blue AC Indicator light is on</u>.</p>
<input type="checkbox"/> Backlight (If applicable)	<p>If your control panel has backlight capabilities and has been wired, turn the dash lamp on and <u>confirm that the AC panel's legend is lit</u>.</p>
<input type="checkbox"/> Fittings	<p>Verify AC and Heater fittings are all tight.</p>



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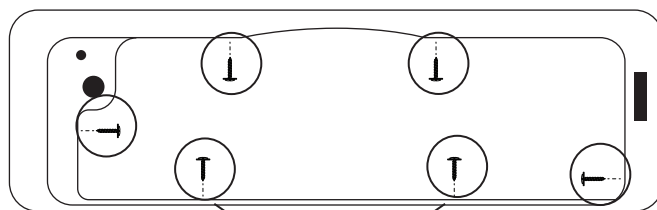
## Glove Box Installation

1. Place the glove box into the glove box opening in the dash (See Figure 1, below).
2. Using the glove box as a template, mark and drill (6) 1/16" holes into the dash.
3. Secure the glove box using (6) #8 x 1/2" wide head screws (See Figure 2, below).



Place glove box into  
glove box opening

**Figure 1**



(6) #8 x 1/2"  
Wide Head Screws

**Figure 2**

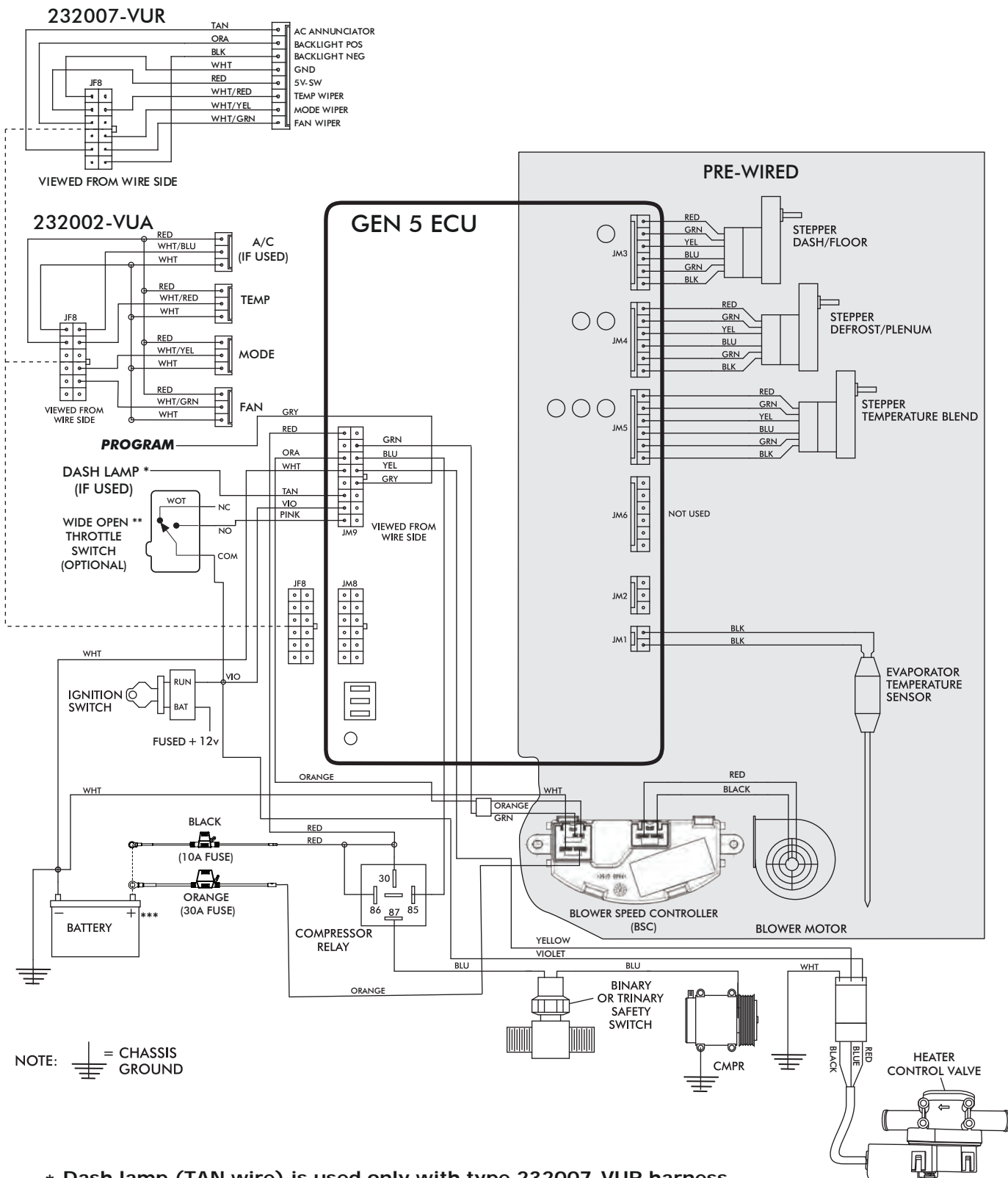
## Final Steps: Completing the Install

1. Reinstall all previously removed items.
2. Fill radiator with at least a 50/50 mixture of approved antifreeze and distilled water. It is the owner's responsibility to keep the freeze protection at the proper level for the climate in which the vehicle is operated. Failure to follow antifreeze recommendations will cause heater core to corrode prematurely and possibly burst in A/C mode and/or freezing weather, voiding your warranty.
3. Double check all fittings, brackets and belts for tightness.
4. Vintage Air recommends that all A/C systems be serviced by a licensed automotive A/C technician.
5. Evacuate the system for a minimum of 45 minutes prior to charging, and perform a leak check prior to servicing.
6. Charge the system to the capacities stated on Page 4 of this instruction manual.
7. See Operation of Controls procedures on Page 34.



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# Gen 5 Wiring Diagram



\* Dash lamp (TAN wire) is used only with type 232007-VUR harness.

\*\* Wide open throttle switch contacts close only at full throttle, which disables A/C compressor.

\*\*\* Install fuse assemblies at or as near to the battery as possible.

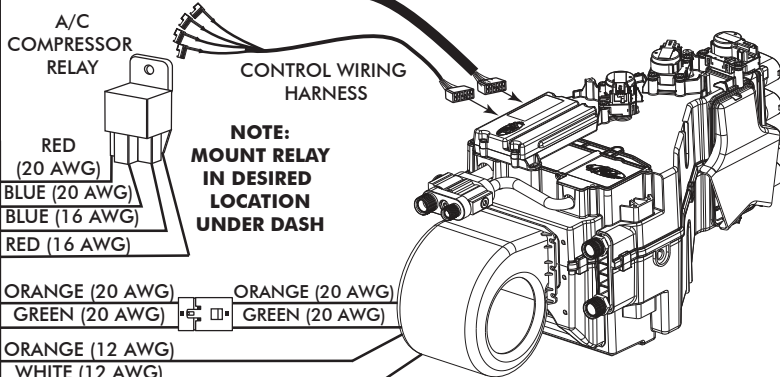




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## Gen 5 Wiring Instructions

WIRING HARNESS (231505) ↓



### Ignition Switch:

Using provided butt splice (PN 226004), connect the 20 AWG violet wire to a 5A fused and switched 12V source such as Key On.

### Wide Open Throttle Switch (Optional):

If a wide open throttle switch is required, connect the 20 AWG pink wire to a normally open switch that, when closed, connects a fused and switched 12V source to the pink wire. See Gen 5 wiring diagram for an example.

### Dash Light (Optional):

If using a Vintage Air control panel with back light, connect the 20 AWG tan wire to the vehicle's dash back light 0-12V using provided butt splice (PN 226004).

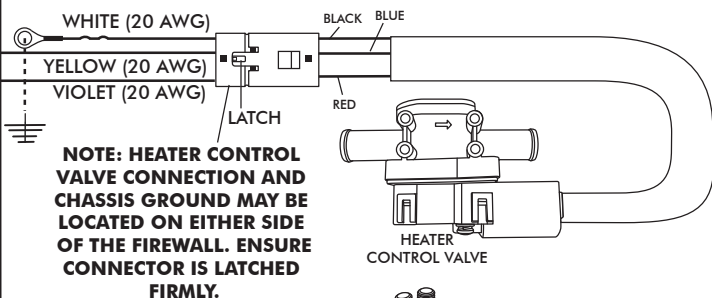
WIRING HARNESS (232020) →



FIREWALL

IF APPLICABLE

FIREWALL



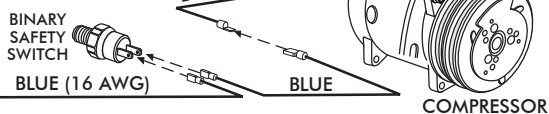
### Heater Control Valve:

Connect the Violet/Yellow/White twisted branch with 3 position connector into the heater control valve connector. Ensure that the mating latch is fully seated.

### Binary/Trinary & Compressor:

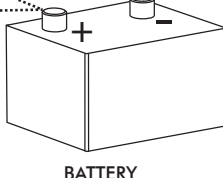
**Binary Switch:** Terminate provided insulated female terminal (PN 23172-VUW) to the blue 16 AWG wire. Connect as shown.

**Trinary Switch:** Connect according to trinary switch wiring diagram.



WHITE (12 AWG)  
WHITE (20 AWG)  
ORANGE (12 AWG)  
RED (16 AWG)

NOTE: CONNECT WHITE WIRES DIRECTLY TO (-) BATTERY TERMINAL



### Battery Connections:

**ECU Ground:** Terminate provided ring terminal (PN 226110) to 20 AWG white wire from the 231505 wire assembly and install at battery.

**ECU PWR:** Terminate provided fuse assembly with black leads (PN 233012) to the 20 AWG red wire from the 231505 wire assembly. Install provided 10A Red Mini Fuse (PN 226118). Install at battery.

**Blower Speed Controller (BSC) Ground:** Terminate provided ring terminal (PN 226111) to 12 AWG white wire from the 232020 wire assembly and install at battery.

**Blower Speed Controller (BSC) PWR:** Terminate provided fuse assembly with orange leads (PN 233008) to the 12 AWG orange wire from the 232020 wire assembly. Install provided 30A Green ATO/ATC Fuse (PN 226125). Install at battery.



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## Operation of Controls

On Gen IV or Gen 5 systems with three lever/knob controls, the temperature control toggles between heat and A/C operations. To activate A/C, move the temperature lever/knob all the way to cold and then back it off to the desired vent temperature. For heat operation, move the temperature lever/knob all the way to hot and then adjust to the desired vent temperature. The blower will momentarily change speed, each time you toggle in and out of heat and A/C operations, to indicate the change. **NOTE: For proper control panel function, refer to the control panel instructions for the calibration procedure.**

### Blower Speed

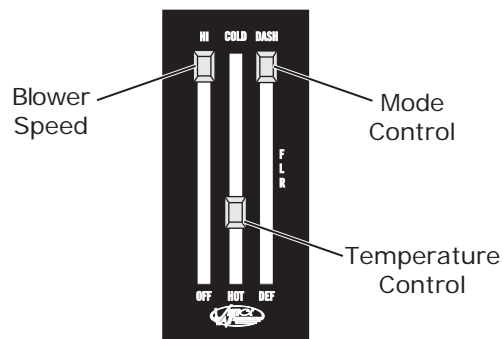
This lever/knob controls blower speed, from OFF to HI.

### Mode Control

This lever/knob controls the mode positions, from DASH to FLOOR to DEFROST, with a blend in between.

### Temperature Control

This lever/knob controls the temperature, from HOT to COLD.



## A/C Operation

### Blower Speed

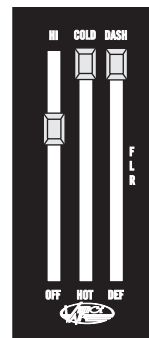
Adjust to desired speed.

### Mode Control

Adjust to desired mode position (DASH position recommended).

### Temperature Control

For A/C operation, adjust to coldest position to engage compressor (adjust between HOT and COLD to reach desired temperature).



## Heat Operation

### Blower Speed

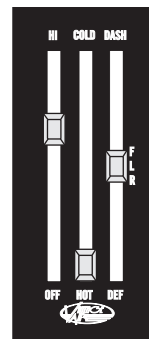
Adjust to desired speed.

### Mode Control

Adjust to desired mode position (FLOOR position recommended).

### Temperature Control

For maximum heating, adjust to hottest position (adjust between HOT and COLD to reach desired temperature).



## Defrost/De-fog Operation

### Blower Speed

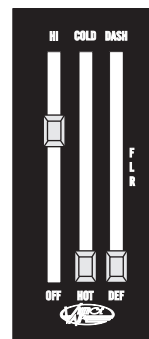
Adjust to desired speed.

### Temperature Control

Adjust to desired temperature.

### Mode Control

Adjust to DEFROST position for maximum defrost, or between FLOOR and DEFROST positions for a bi-level blend (Compressor is automatically engaged).





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# Troubleshooting Guide

This printed troubleshooting guide is our basic guide that covers common installation problems. To see our advanced diagnostics and troubleshooting guide, please refer to the following page for instructions on how to download the complete guide.

**WARNING: While troubleshooting the system, never probe connector terminals from the front mating side, only back probe.**

**WARNING: While troubleshooting the system, never use automotive check lights.**

Symptom	Condition	Checks	Actions	Notes
1. Blower stays on high speed with ignition on.	No other functions work. All other functions work.	Check for damaged pins or wires in the control panel wire assembly and mating header at ECU. Check for a bad ECU GND. Check for damaged pins or wires in the control panel wire assembly and mating header at ECU. Check if Blower power fuse is blown. Check for a bad ECU GND.	If found damaged, replace wire assembly or ECU. If found damaged, replace wire assembly or ECU. Replace fuse. Repair connection.	If fuse continues to blow, there is a serious problem in the wiring. Check all wiring and ensure the wire is not damaged and shorting out along its route.
2. Compressor will not turn on (All other functions work).	System is not charged. System is charged.	System must be charged for compressor to engage. Check for faulty A/C potentiometer or associated wiring (not applicable to 3-pot controls). Check for disconnected or faulty thermistor.	Charge system. Check continuity to ground on white control head wire. Check for 5V on red control head wire. Check 2-pin connector at ECU housing.	<b>Danger: Never bypass safety switch with engine running. Serious injury can result.</b> To check for proper pot function, check voltage at white/red wire. Voltage should be between 0V and 5V, and will vary with pot lever position. Disconnected or faulty thermistor will cause compressor to be disabled.
3. Compressor will not turn off (All other functions work).		Check for faulty A/C potentiometer or associated wiring. Check for faulty A/C relay.	Repair or replace pot/control wiring. Replace relay.	Red wire at A/C pot should have approximately 5V with ignition on. White wire will have continuity to chassis ground. White/Red wire should vary between 0V and 5V when lever is moved up or down.



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## Troubleshooting Guide (Cont.)

Symptom	Condition	Checks	Actions	Notes
4. System will not turn on, or runs intermittently.	Works when engine is not running; shuts off when engine is started	Noise interference from either ignition or alternator.	Install capacitors on ignition coil and alternator. Ensure good ground at all points. Relocate coil and associated wiring away from ECU and ECU wiring. Check for burned or loose plug wires.	Ignition noise (radiated or conducted) will cause the system to shut down due to high voltage spikes. If this is suspected, check with a quality oscilloscope. Spikes greater than 16V will shut down the ECU. Install a radio capacitor at the positive post of the ignition coil (see radio capacitor installation bulletin). A faulty alternator or worn out battery can also result in this condition.
	Will not turn on under any conditions.	Verify connections on power lead, ignition lead, and both white ground wires.	Check for power at ECU, and confirm ignition is being applied to ECU properly.	
		Verify battery voltage is greater than 10 volts and less than 16 while engine is running.	Verify proper meter function by checking the condition of a known good battery.	
5. Loss of mode door function.	No mode change at all.	Check for damaged mode switch or potentiometer and associated wiring.		System shuts off blower at 10V. Poor connections or weak battery can cause shutdown at up to 11V.
6. Blower turns on and off rapidly.	Battery voltage is at least 12V.	Check for at least 12V at circuit breaker.	Ensure all system grounds and power connections are clean and tight.	
	Battery voltage is less than 12V.	Check for faulty battery or alternator.	Charge battery.	
7. Erratic functions of blower, mode, temp., etc.		Check for damaged switch or pot and associated wiring.	Repair or replace.	

## Advanced Diagnostics and Troubleshooting Guide

If after referencing the Troubleshooting Guide, the issue is not resolved, move to The Advanced Diagnostics and Troubleshooting Guide that covers the following:

- ECU Diagnostics Codes
  1. ECU Blink Sequence
  2. Firmware Version Number
  3. ECU Model Number
  4. ECU Start-Up Blink Sequence
  5. Diagnostic Codes
- Complete Advanced Troubleshooting Guidelines

Access the latest version of the Advanced Diagnostics and Troubleshooting Guide by scanning the following QR code on your mobile device:



You can also access the guide by typing the following address into your web browser:

[https://www.vintageair.com/instructions\\_pdf/905000.pdf](https://www.vintageair.com/instructions_pdf/905000.pdf)







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## Packing List: Evaporator Kit (561245)

No.	Qty.	Part No.	Description
1.	1	765200	Gen 5 Super Magnum Module
2.	1	781245	Accessory Kit

Checked By: \_\_\_\_\_

Packed By: \_\_\_\_\_

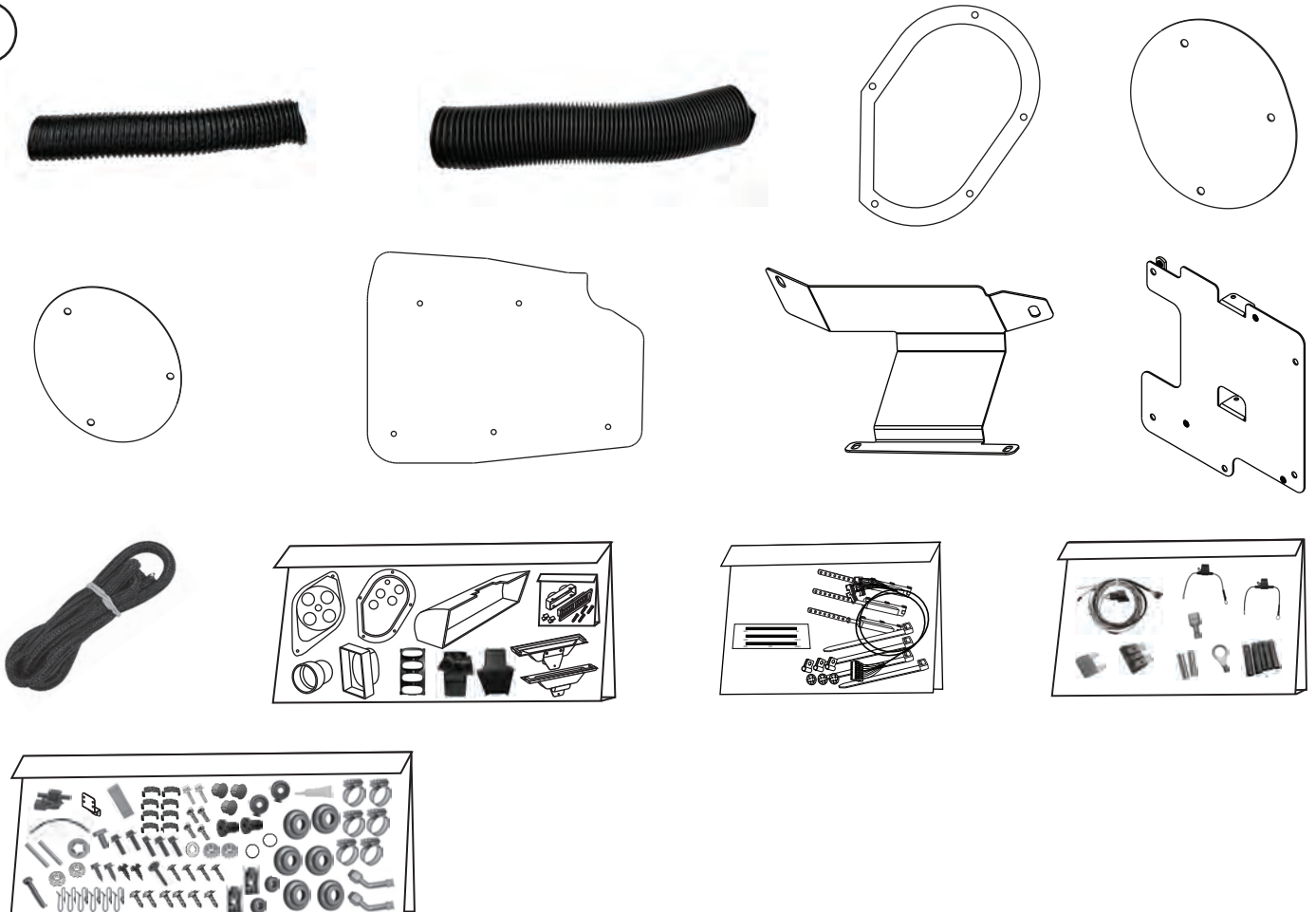
Date: \_\_\_\_\_

1

Gen 5 Super Magnum  
Module  
765200



2



Accessory Kit  
781245

**NOTE:** Images may not depict actual parts and quantities.  
Refer to packing list for actual parts and quantities.