



1970-81 Pontiac Firebird

without **Factory Air, with RGB Control
Gen 5 Evaporator Kit
(561418)**



**18865 Goll St. San Antonio, TX 78266
Phone: 800-862-6658
Sales: sales@vintageair.com
Tech Support: tech@vintageair.com
www.vintageair.com**



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Table of Contents

Cover.....	1
Table of Contents.....	2
Packing List/Parts Disclaimer.....	3
Information Page.....	4
Wiring Notice.....	5
Center Louver Information.....	6
Engine Compartment Disassembly.....	7
Engine Compartment Disassembly (Cont.), Condenser Assembly and Installation, Compressor and Brackets.....	8
OEM Control Panel Removal.....	9-10
Passenger Compartment Disassembly.....	11-12
Firewall Modification, Firewall Cover Installation and Insulation.....	13
Firewall Modification, Firewall Cover Installation and Insulation (Cont.), Defrost Duct and Fresh Air Cover Installation.....	14
Duct Hose Adapter Installation, Optional Factory Air-Style Center Louver Upgrade Installation.....	15
Passenger-Side Kick Panel & Fresh Air Cap Modification.....	16
Passenger-Side Kick Panel & Fresh Air Cap Modification (Cont.).....	17
Lubricating O-rings, Properly Seated O-ring Land.....	18
Evaporator Preparation.....	19-20
Wiring Installation.....	21
Kick Panel Cover Installation, Fresh Air Cap Installation.....	22
Evaporator Installation, Drain Hose Installation.....	23-24
Console Mounted Center Louver Installation (with OEM Console).....	25
Console Mounted Center Louver Installation (with OEM Console)(Cont.).....	26
Under Dash Center Louver Installation (without OEM Console).....	27
Duct Hose Routing.....	28
Heater Hose & Heater Control Valve Installation, A/C and Heater Hose Routing.....	29
Engine Compartment Wiring.....	30
Glove Box Installation, Driver-Side Under Dash Cover Installation.....	31
Final Steps: Installation Check.....	32
Final Steps: Completing the Install.....	33
Quality Crimp Guideline.....	34
Gen 5 Wiring Diagram.....	35
Gen 5 Wiring Connection Instruction.....	36
Operation of Controls.....	37
Troubleshooting Guide.....	38
Troubleshooting Guide (Cont.), Advanced Diagnostics and Troubleshooting Guide.....	39
Packing List.....	40



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Packing List: Evaporator Kit (561418)

No.	Qty.	Part No.	Description
1.	1	765200	Gen 5 Magnum Max Module with 404 ECU
2.	1	781418	Accessory Kit

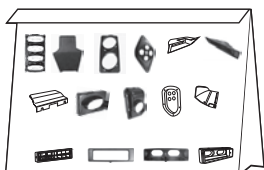
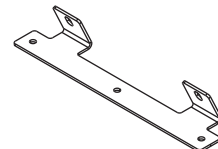
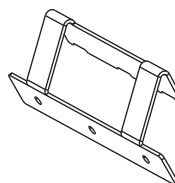
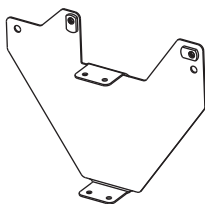
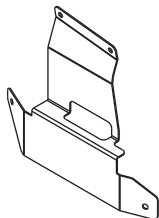
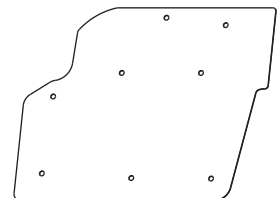
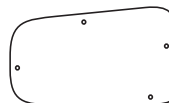
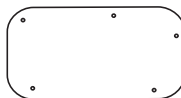
**** Before beginning installation, open all packages and check contents of shipment.
Please report any shortages directly to Vintage Air within 15 days. After 15 days,
Vintage Air will not be responsible for missing or damaged items.**

1



**Gen 5 Magnum Max
Module with 404 ECU
765200**

2



**Accessory Kit
781418**

**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.



Center Louver Information—Please Read

In their original configuration, 1970-81 Pontiac Firebirds without factory air are equipped with driver and passenger side louver vents, but no center louver vent. To ensure maximum performance, your Vintage Air SureFit™ system includes provisions for a center louver vent.

Depending on whether or not your model includes an OEM center console, the following center louver configurations are available. Because the installation procedure differs for each configuration, Vintage Air recommends making this determination before beginning the evaporator kit installation.

A. Console Mounted Center Louver (Vehicles Equipped with OEM Center Console):

This configuration features a louver vent mounted in the center console in place of the map pocket as shown below. **NOTE: Your evaporator kit includes all necessary parts. See instructions on Pages 22-24 for further information.**

B. Under Dash Center Louver (Vehicles without OEM Center Console):

This configuration features a center louver vent mounted below the dash as shown below. **NOTE: Your evaporator kit includes all necessary parts. See instructions on Page 25 for further information.**

C. OPTIONAL UPGRADE—Factory Air-Style Center Louver:

This configuration features two center louver vents mounted in the instrument panel trim plate as shown below. **NOTE: Additional purchase of Vintage Air Kit # 623241 or 623242 and dash modification are required. See <http://www.vintageair.com/GM%20SureFit%20Instructions.asp> for installation instructions and video. See Page 15 of this instruction manual for further information.**



NOTE: Additional purchase of Vintage Air Kit # 623241 or 623242 is required for factory air-style center louver upgrade.



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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 (NOTE: Retain OEM bolts, screws, washers and nuts, as some hardware will be reused):

1. Place (2) jack stands under the sway bar below the frame to keep the complete frame straight (See Photo 1, below).
2. Disconnect battery.
3. Drain radiator.
4. Remove the (2) OEM heater hoses (discard) (See Photo 2, below).
5. Remove the air cleaner (retain) (See Photo 2, below).
6. Remove the passenger side front tire (retain).
7. Remove the passenger side inner fender and radiator overflow (retain) (See Photo 4, below). To remove the inner fender, remove the passenger side lower fender bolts (See Photo 3, below). **NOTE: Protect the fender and door to avoid scratching the paint.**

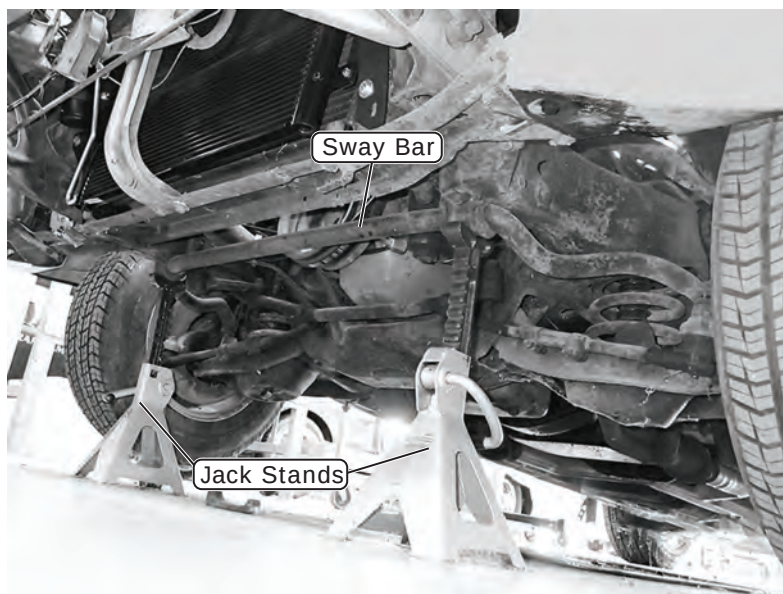


Photo 1

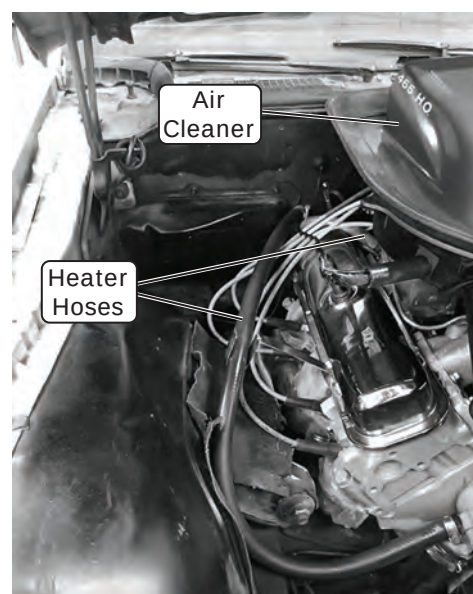


Photo 2

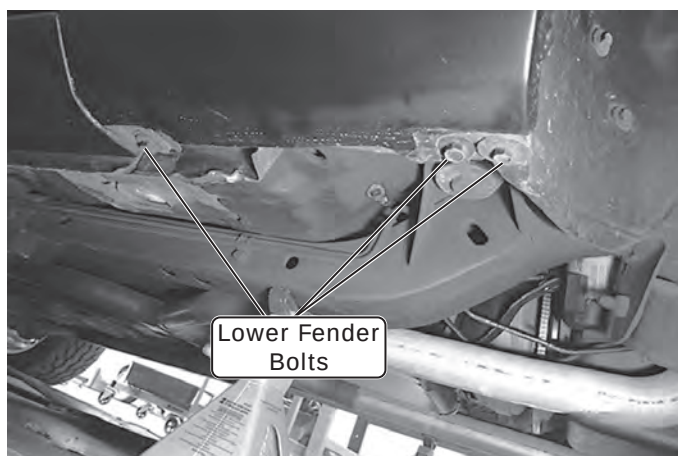


Photo 3



Photo 4



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Engine Compartment Disassembly (Cont.)

8. Remove the (5) nuts and (2) bolts from the OEM heater assembly with blower motor (discard) (See Photo 5, below).
9. Disconnect the heater blower connector (See Photo 6, below).

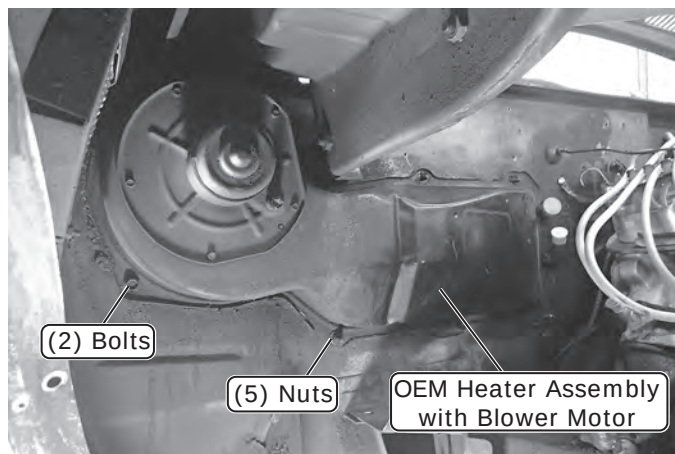


Photo 5

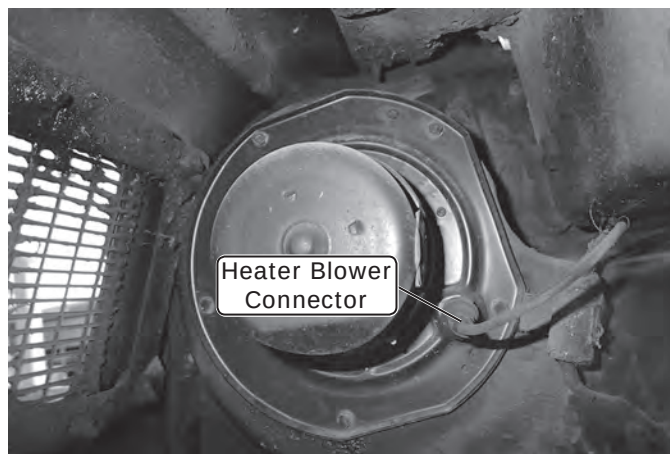


Photo 6

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.

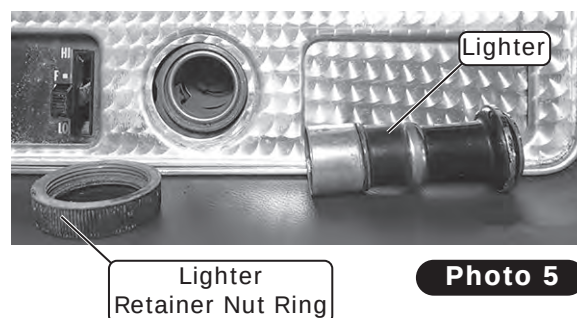
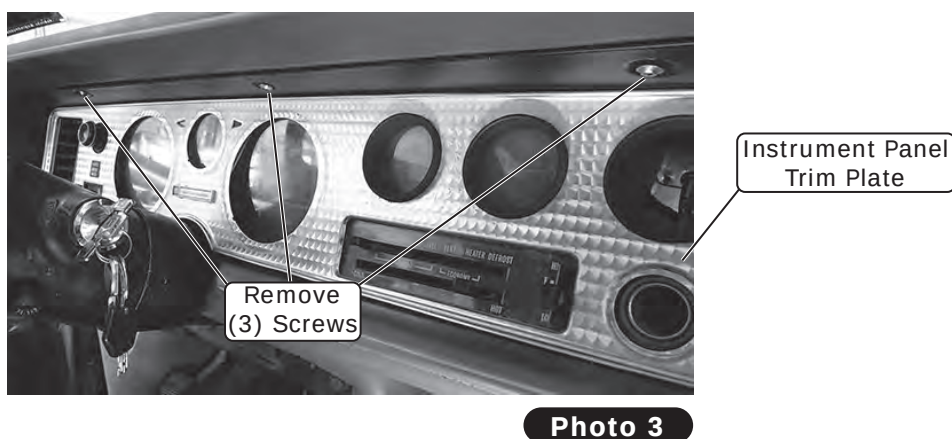
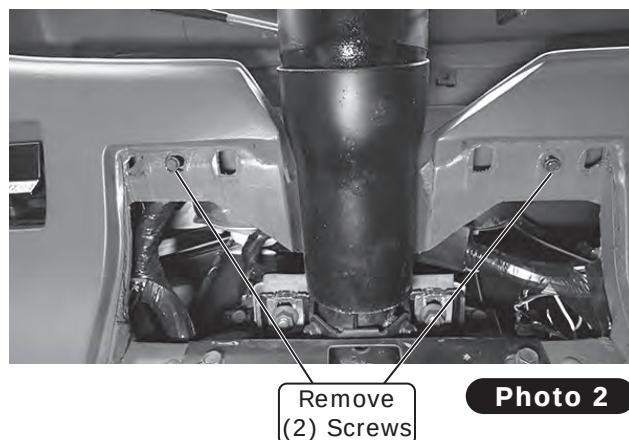
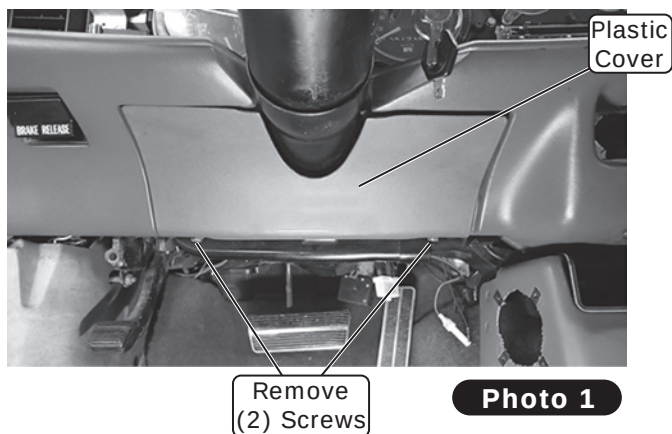


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OEM Control Panel Removal

Perform the Following:

1. Remove (2) screws retaining the plastic cover beneath the steering column as shown in Photo 1, below (retain). Remove the cover (retain).
2. Remove the instrument panel trim plate by removing (2) lower screws (See Photo 2, below), (3) upper screws (See Photo 3, below), and the lighter retainer nut ring (See Photos 4 and 5, below) (retain).





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OEM Control Panel Removal (Cont.)

3. Disconnect cables and wires from the back of the control panel as shown in Photo 7, below. **NOTE: For ease of access to the control panel cables and wires, Vintage Air recommends removing the gauge cluster located directly above the control panel (See Photo 6, below).**
4. Remove the OEM control panel (discard).

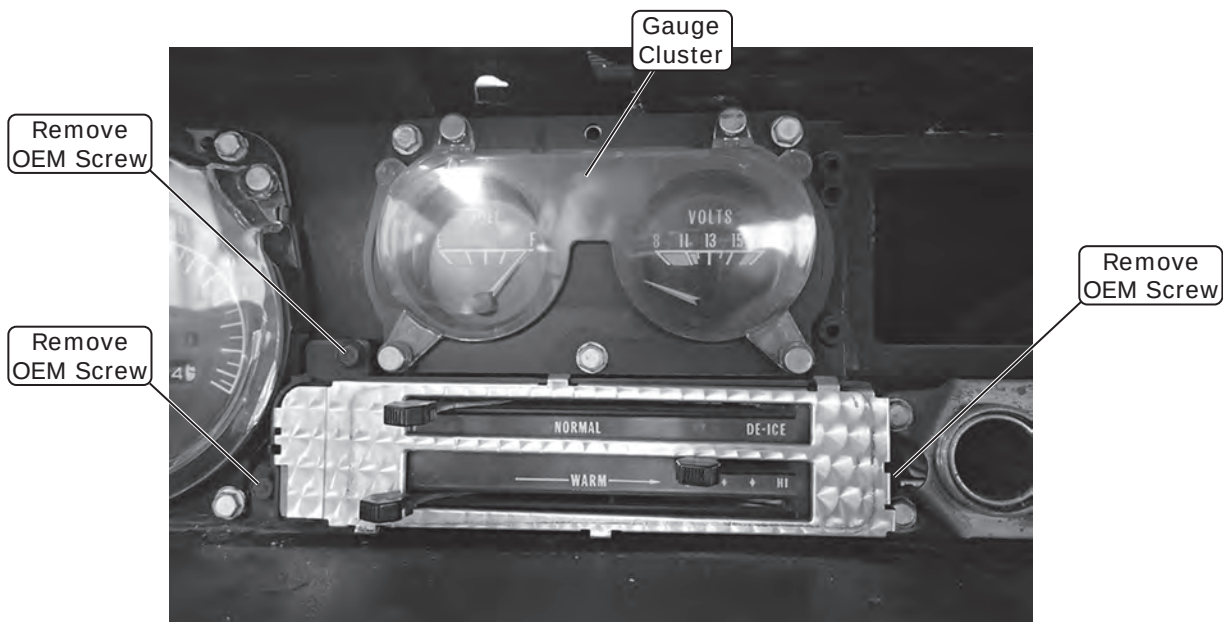


Photo 6

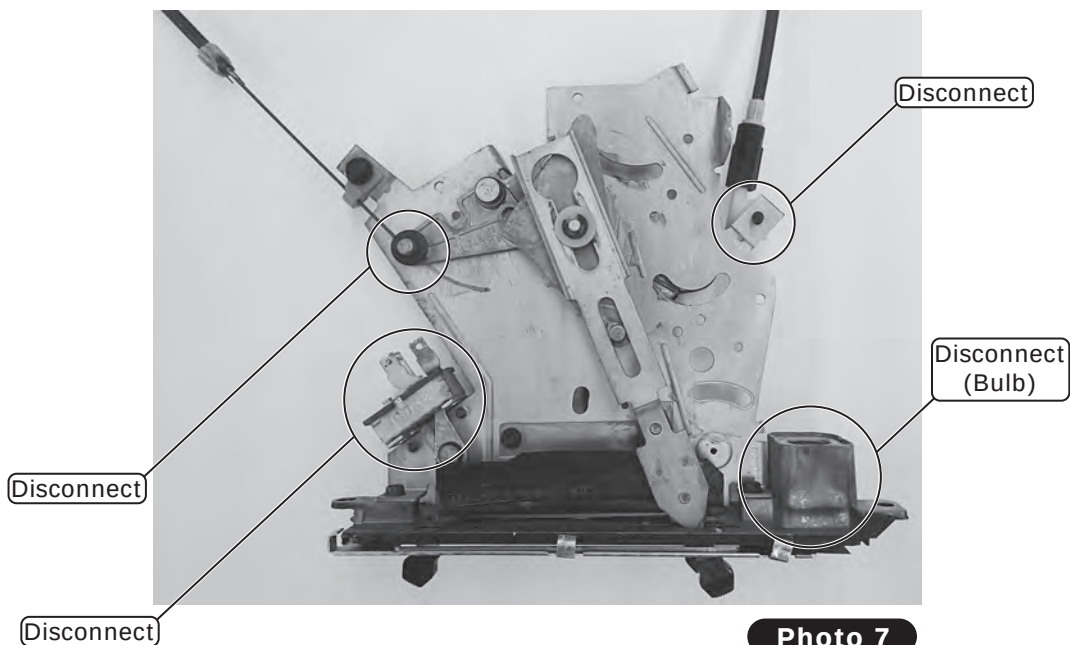


Photo 7



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Passenger Compartment Disassembly

Perform the Following (NOTE: Retain OEM bolts, screws, washers and nuts, as some hardware will be reused):

1. For ease of access in the passenger compartment, remove the passenger seat (retain).
2. Remove the glove box door (retain) (See Figure 1, below).
3. Remove the glove box (discard) (See Figure 1, below).
4. Remove the OEM heater assembly ducting and defrost ducts (discard) (See Figure 2, below).
5. Remove the OEM heater assembly (discard) (See Figure 2, below).
6. Remove the OEM blower wire and grommet from the firewall (discard) (See Photo 1, below).

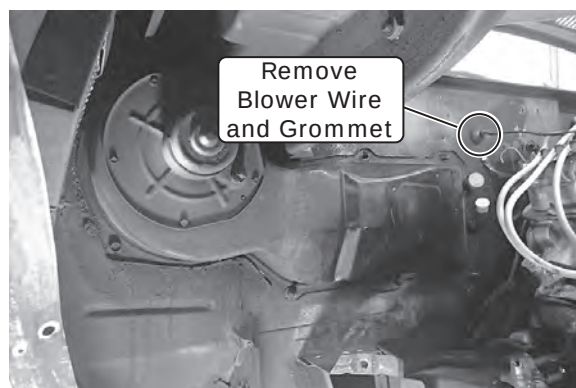
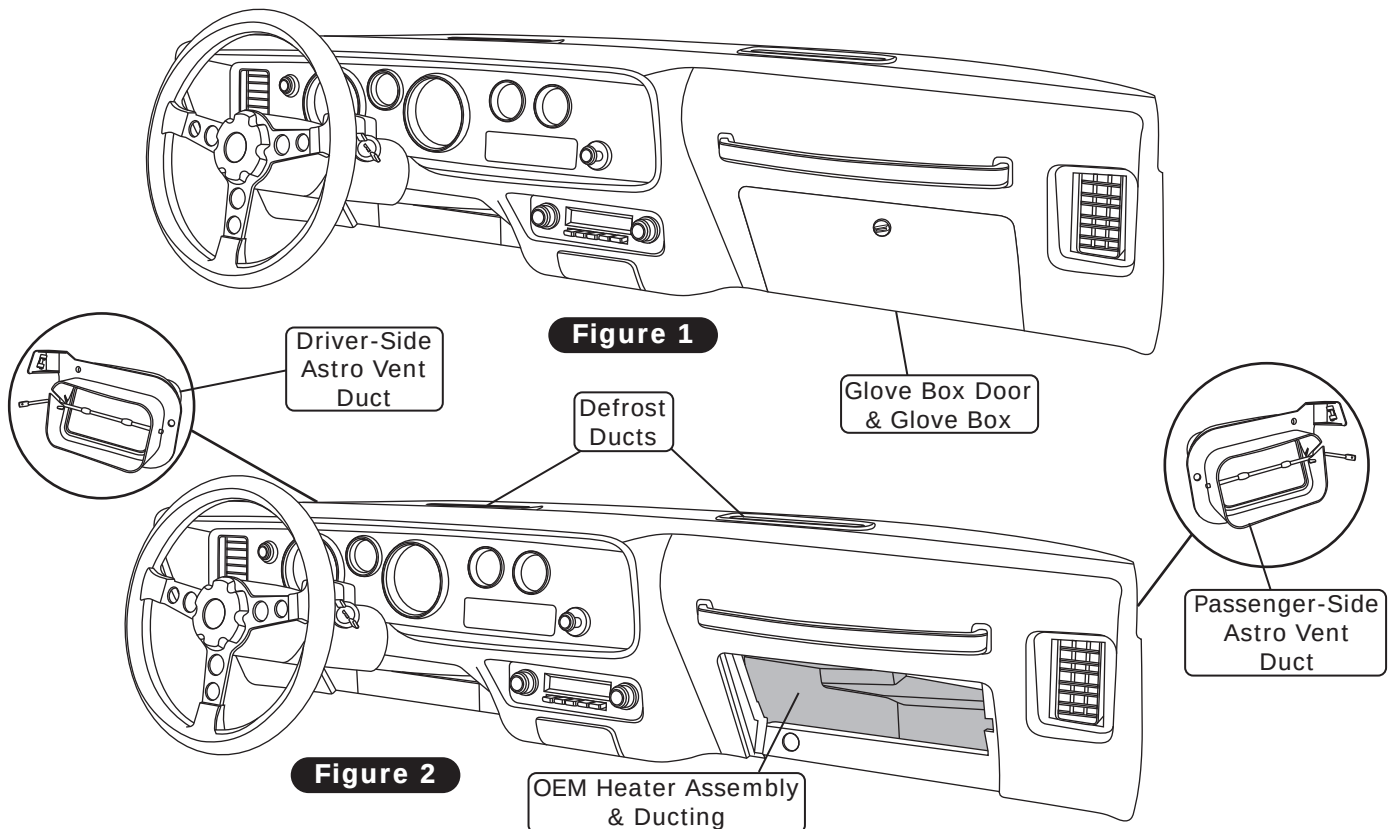


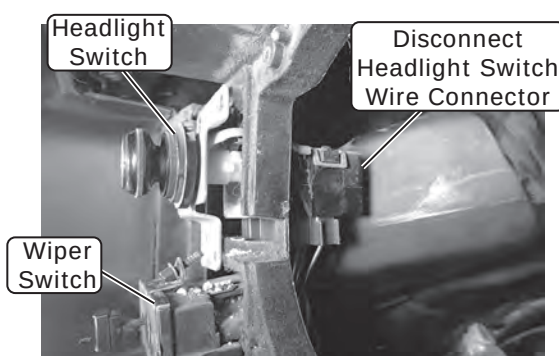
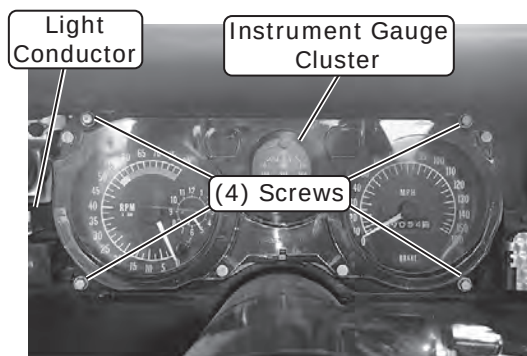
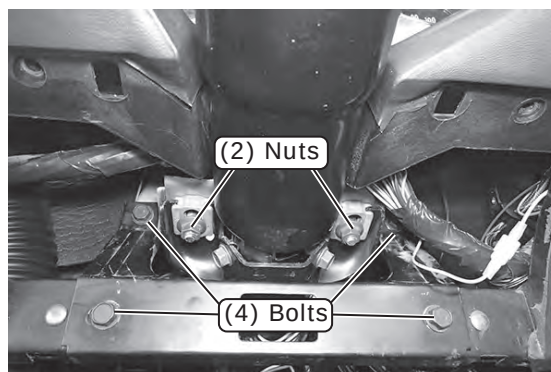
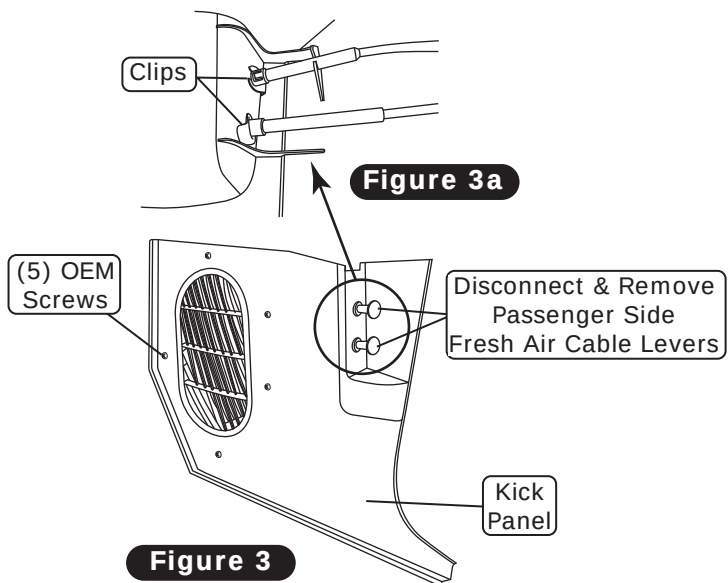
Photo 1



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Passenger Compartment Disassembly (Cont.)

7. Remove the passenger-side kick panel by removing (5) OEM screws (retain). Disconnect the passenger-side below).
8. Remove the cable from the passenger side astro vent duct, and then remove the astro vent duct by removing (5) screws (See Figure 2, Page 11).
9. Remove the cable from the driver side astro vent duct, and then detach the astro vent duct by removing (4) screws (See Figure 2, Page 11). To remove the driver side astro vent duct:
 - A. Remove (4) bolts and (2) nuts to lower the steering wheel and steering column (See Photo 2, below).
 - B. Carefully remove the light conductor by removing (1) fastener (See Photo 3, below).
 - C. Remove the instrument gauge cluster by removing (4) screws. Disconnect the wires and cables from the back side of the cluster (See Photo 3, below).
 - D. Remove the driver side louver by pushing it all the way up while at the same time pulling out the bottom of the louver.
 - E. Loosen the windshield wiper switch by removing (3) screws. **NOTE: It is not necessary to unplug the connector.**
 - F. Remove the headlight switch by removing (2) screws and disconnecting the wire connector (See Photo 4, below). **NOTE: On some cars, it may be necessary to loosen the driver side of the dashboard to remove the driver side astro vent and ducting. Refer to the OEM assembly manual as needed.**





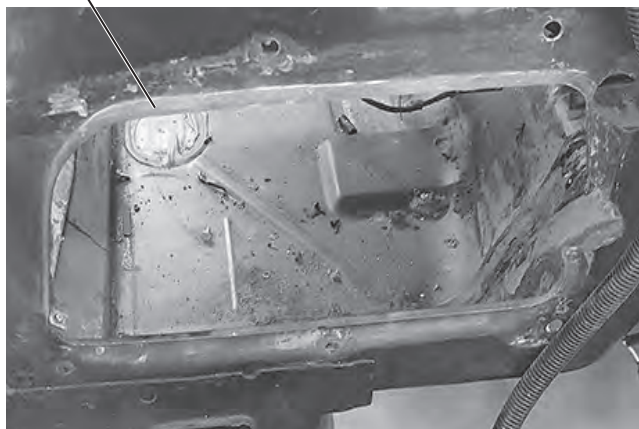
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Firewall Modification, Firewall Cover Installation and Insulation

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

1. Flatten or remove the edges of the firewall opening (See Photo 1, below). **NOTE: For proper system operation, Vintage Air recommends using Dynaliner (461500-VIP) heatblocking insulation in the area around the evaporator module (firewall, kick panel, inner cowl and firewall covers). Due to tight clearance for the evaporator module, between the firewall and dash, Vintage Air recommends an insulation thickness of no more than 1/8".**
2. Install (3) 1/4-20 x 3/4" serrated flange black bolts, a 1/4-20 x 1" serrated flange black bolt and (4) 1/4" pushnut bolt retainers onto the firewall cover as shown in Figure 1, below.
3. Temporarily install the firewall cover onto the firewall. Using the firewall as a template, drill the remaining holes using a 5/16" drill bit (See Figure 2, below). Remove the firewall cover.
4. Install a 1/4-20 x 1" and 1/4-20 x 3/4" serrated flange black bolt and (2) 1/4" pushnut bolt retainers in the firewall cover plate (See Figure 3, below).
5. Apply a 1/4" bead of silicone around the mating surface of the firewall cover.
6. Install the firewall cover onto the firewall. Secure it from the passenger compartment using (4) 1/4" USS flat washers and (4) 1/4-20 hex nuts with star washers.

Flatten Edges of Firewall Opening

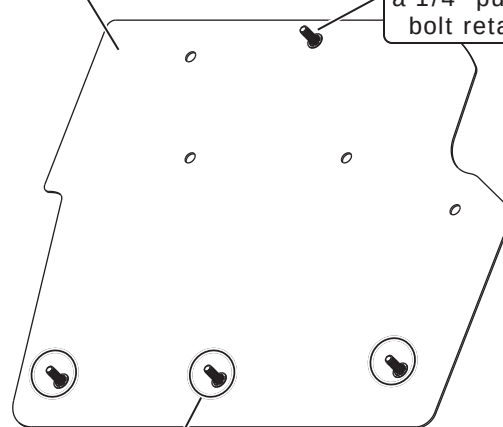


Engine Compartment Side

Photo 1

Firewall Cover 648240

1/4-20 x 1" serrated flange black bolt and a 1/4" pushnut bolt retainer



(3) 1/4-20 x 3/4" serrated flange black bolts and (3) 1/4" pushnut bolt retainer

Figure 1

Drill remaining holes using a 5/16" drill bit

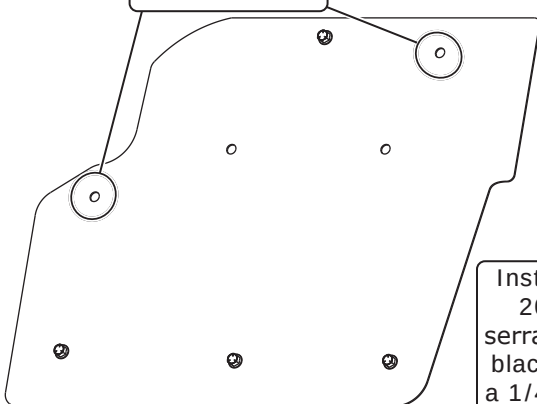
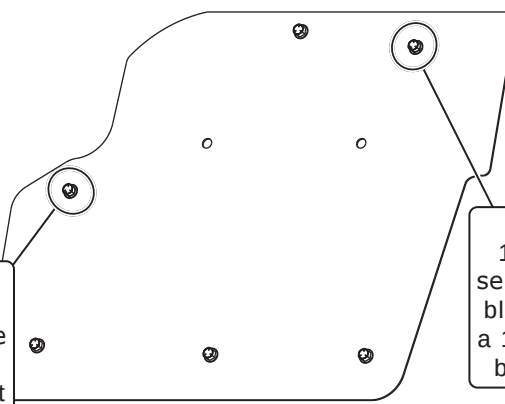


Figure 2

Install a 1/4-20 x 3/4" serrated flange black bolt and a 1/4" pushnut bolt retainer



Install a 1/4-20 x 1" serrated flange black bolt and a 1/4" pushnut bolt retainer

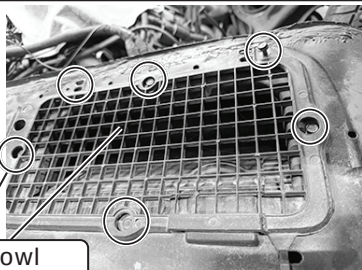
Figure 3



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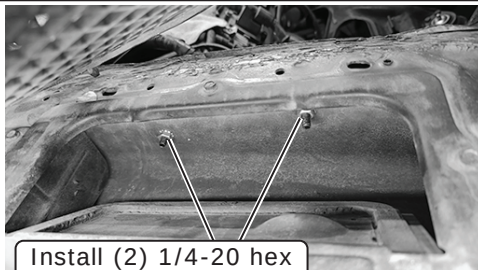
Firewall Modification, Firewall Cover Installation and Insulation (Cont.)

7. Remove the cowl screen and the mounting hardware (See Photo 2, below). Install (2) 1/4-20 hex nuts with star washers onto the firewall bolts (See Photo 3, below). Reinstall the screen.
8. Apply insulation (passenger compartment) at this time and cut out holes for the mounting hardware.



Remove cowl screen and mounting hardware

Photo 2

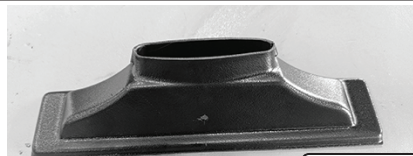


Install (2) 1/4-20 hex nuts with star washers onto firewall bolts

Photo 3

Defrost Duct and Fresh Air Cover Installation

1. Locate the driver- and passenger-side fresh air covers. Apply a 1/4" bead of silicone to the mating surface, and install using OEM screws as shown in Figure 1, below.
2. Locate the driver- and passenger-side defrost ducts. Attach a 22" length of 2" duct hose to the driver-side defrost duct. Attach a 14" length of 2" duct hose to the passenger side defrost duct (See Figure 6, below).
3. Install the (2) defrost ducts onto the OEM defrost duct mounting flanges under the dash using (2) defrost brace brackets, (2) 10-24 x 3/4" screws and (2) 10-24 nuts with star washers (See Photos 1, 2 and Figure 1, below).

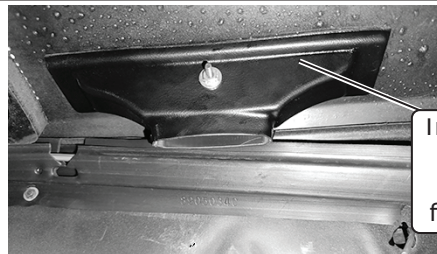


#8 Washer

10-24 Nut with Star Washer

10-24 x 3/4" Serrated Flange Screw

Photo 1



Install defrost duct on OEM defrost duct mounting flange under dash

Photo 2

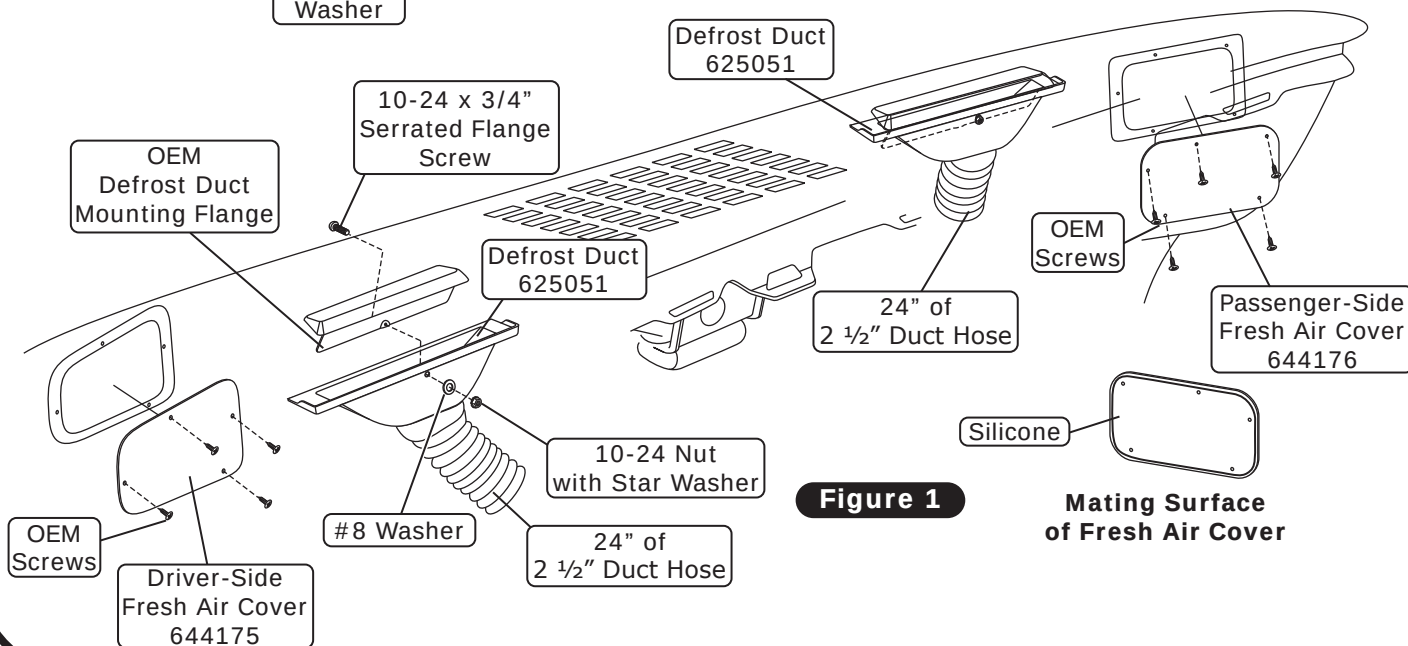


Figure 1

Mating Surface of Fresh Air Cover



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Duct Hose Adapter Installation

1. Locate the driver- and passenger-side hose adapters.
2. Install (2) S-clips ((1) on each side) onto the driver-side hose adapter as shown in Figure 1, below.
3. Secure 36" of 2 ½" duct hose onto the driver-side hose adapter as shown in Figure 1, below.
4. Install the driver-side hose adapter onto the back side of the driver-side OEM louver as shown in Figure 1, below.
5. Secure 50" of 2 ½" duct hose onto the passenger-side hose adapter as shown in Photo 1, below.
6. Using (3) OEM screws, install the passenger-side hose adapter onto the back side of the passenger-side louver as shown in Photo 1, below.

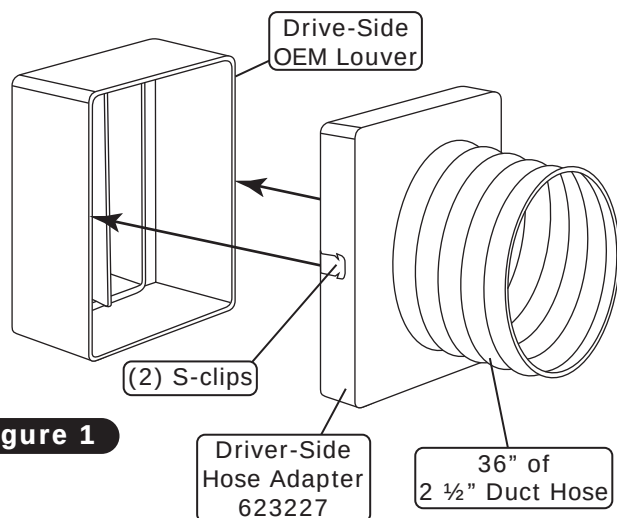


Figure 1

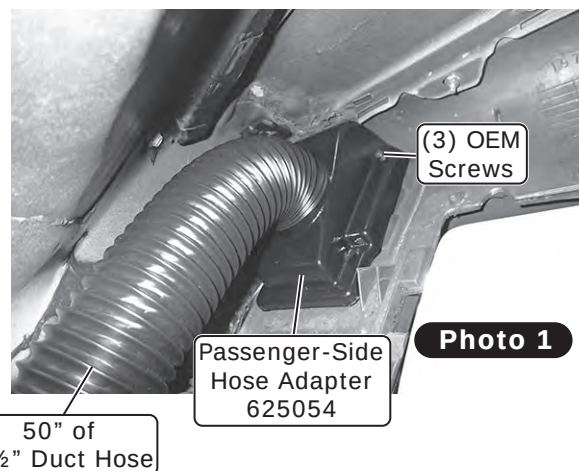


Photo 1

Optional Factory Air-Style Center Louver Upgrade Installation

1. Refer to separate instructions included with the optional factory air-style center louver upgrade kit.



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Passenger-Side Kick Panel & Fresh Air Cap Modification

1. Install (3) large grommets, a 1 1/4" O.D. x 1" with 1/2" hole grommet and a 7/8" O.D. x 3/8" I.D. grommet into the fresh air cap (See Photos 1 & 2, below).
2. On the inside of the fresh air cap, the letter "T" indicates the top mounting hole for the firewall (See Photo 3, below).
3. From the center of the bottom-left hole on the kick panel, measure 1 1/2" down. Mark and drill a 5/8" hole for the 7/8" grommet (See Photos 4 and 5, below).

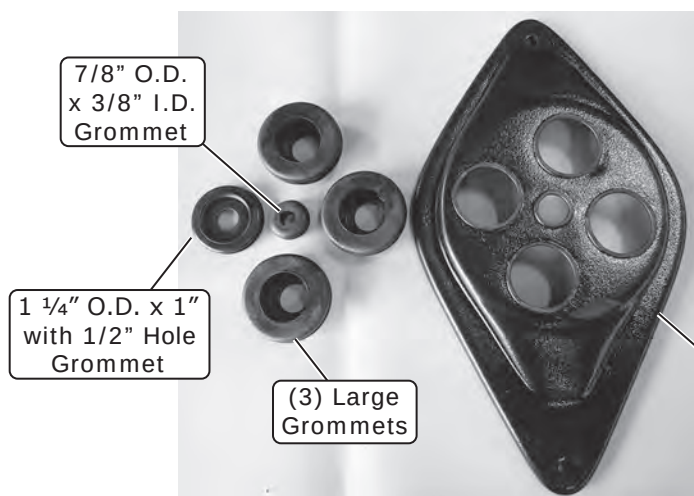


Photo 1

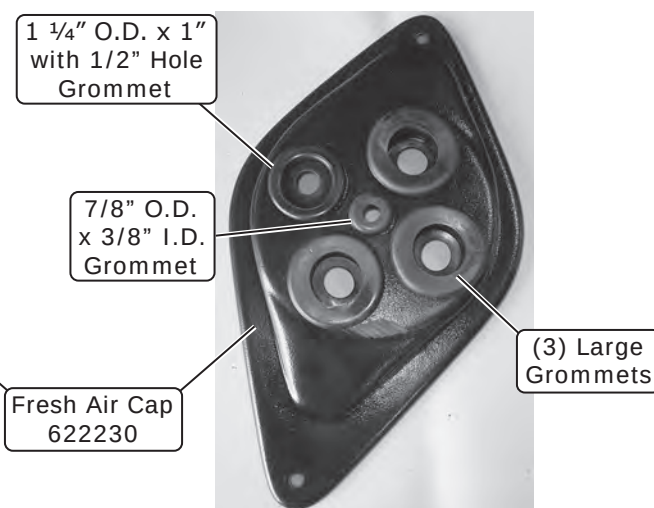


Photo 2

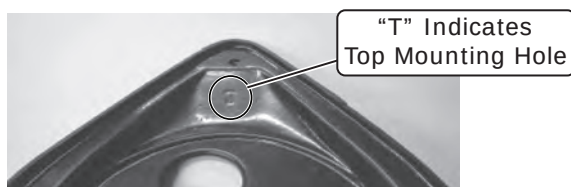


Photo 3

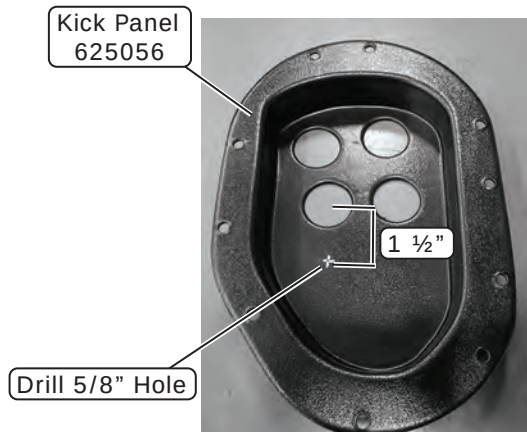


Photo 4

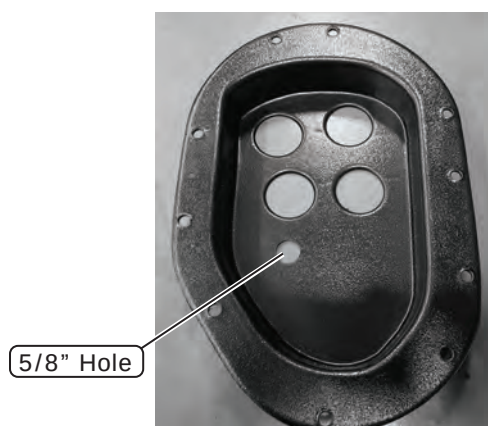


Photo 5



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Passenger-Side Kick Panel & Fresh Air Cap Modification (Cont.)

4. Install (3) large grommets, a 1 1/4" O.D. x 1" with 1/2" hole grommet and a 7/8" O.D. x 3/8" I.D. grommet into the kick panel (See Photos 6 and 7, below).
5. Locate the OEM passenger-side kick panel.
6. Remove the kick panel grille by cutting the kick panel along the outer edge of the grille (See Figure 1, below).
7. Enlarge the OEM lever housing holes to 1/2".
8. Install (2) 1/2" plastic plugs in the OEM lever housing holes (See Figure 1, below).
9. Reinstall your vehicle's OEM passenger kick panel trim.

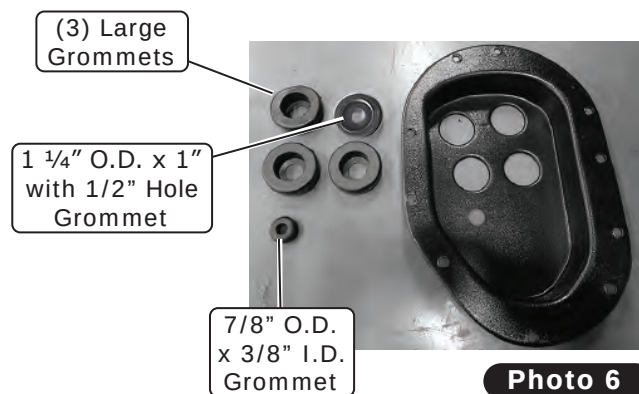


Photo 6



Grommets Installed

Photo 7

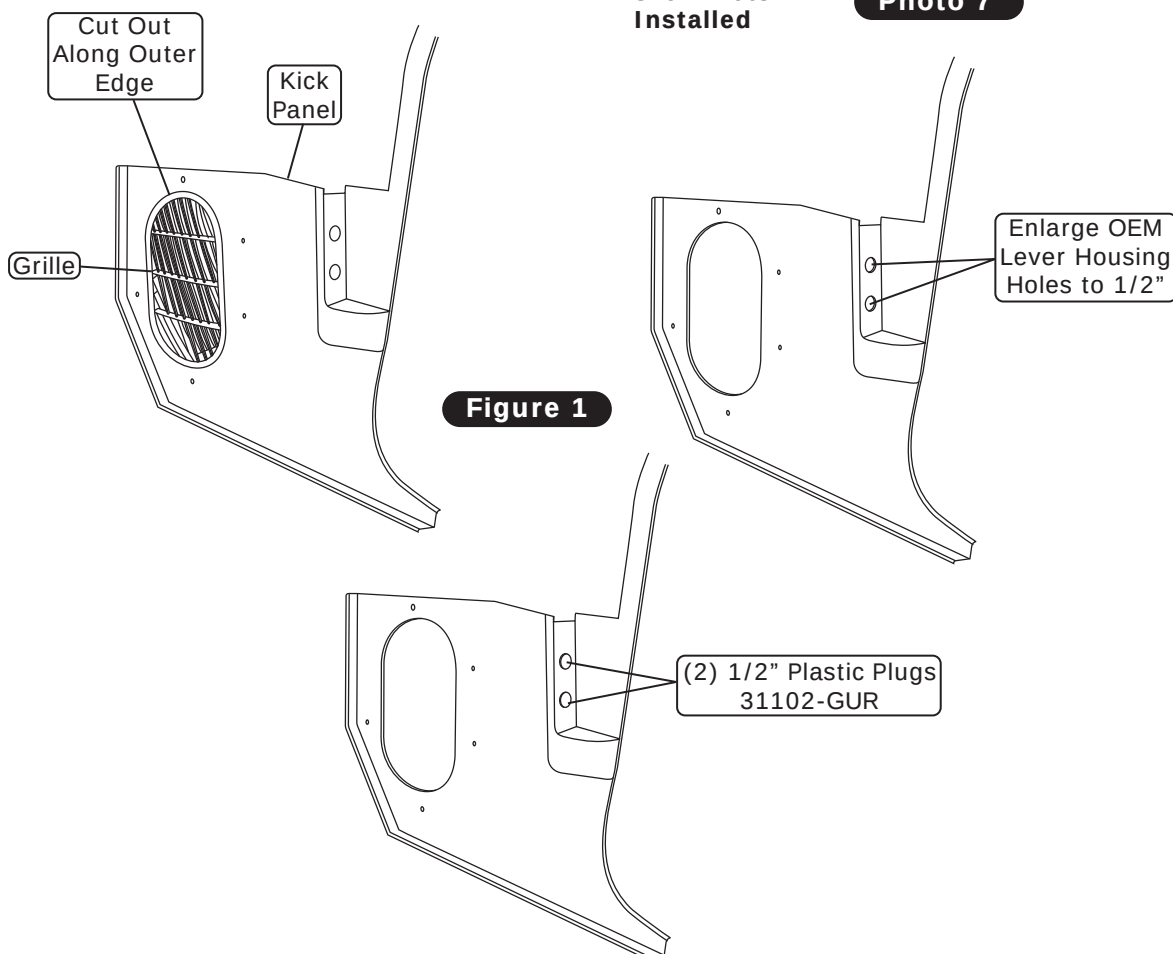
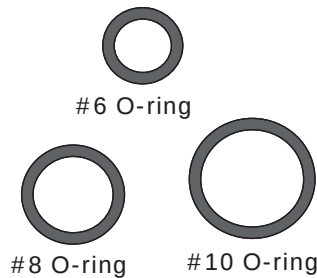


Figure 1

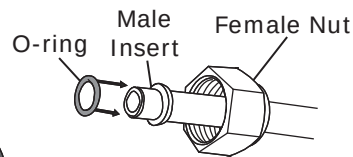


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Lubricating O-rings & Fitting Torque Specs

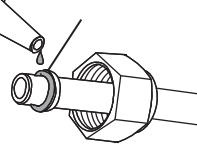


NOTE: Standard torque specifications:
 #6: 11 to 13 ft-lb.
 #8: 15 to 20 ft-lb.
 #10: 21 to 27 ft-lb.



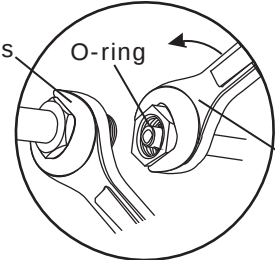
Refrigerant Oil
for O-rings

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.

Hold with this
wrench



Twist with
this wrench

The use of a backup wrench is recommended to reduce the chance of damaging the fittings/hardline.

Properly Seated O-ring Land

When installing a hardline or A/C hose fitting onto the evaporator module, ensure the O-ring land is seated properly (See Photo 1, below). An improperly seated O-ring land (See Photo 2, below) can cause a leak. To properly install the fitting, slide the hardline or A/C hose nut back to expose the O-ring land and seat it onto the evaporator module fitting. Then, slide the hardline or A/C hose nut forward and thread it onto the evaporator module fitting, ensuring the O-ring land does not move or lift.

Properly Seated O-ring Land



Photo 1

Improperly Seated O-ring Land

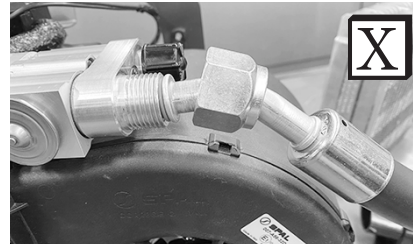


Photo 2

NOTE: Photos shown are for reference only. Fittings may vary depending on kit received.



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Evaporator Preparation

Perform the following on a workbench:

1. Remove the plastic caps and rubber inserts from the heater connections (See Photos 1 and 2, below).
2. Install the upper and lower heater hardlines onto the evaporator module using (2) properly lubricated #10 O-rings (See Lubricating O-rings, Page 18, and Photo 3, below).
3. Install (3) 1/2" plastic plugs, into the back of the evaporator module (See Photos 4 and 5, below).
NOTE: These mounting positions will not be used for this application.
4. Install the evaporator firewall bracket onto the module and secure it using (4) #10 x 5/8" screws (See Photos 6 and 7, below).
5. Install (2) 1/4-20 full-threaded studs halfway into the mounting holes on the evaporator firewall bracket (See Photo 8, below).

Remove plastic caps
and rubber inserts

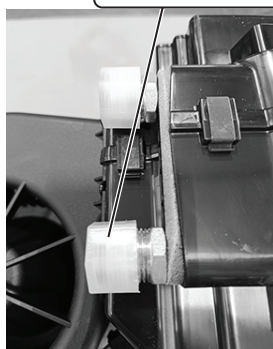
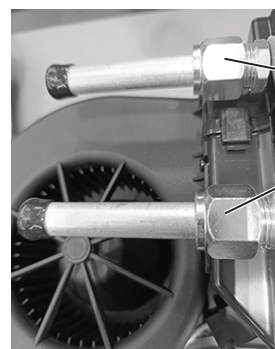


Photo 1



Photo 2



Install upper
and lower
heater hardlines

Photo 3

Install (3) 1/2"
plastic plugs
into back of
evaporator
module



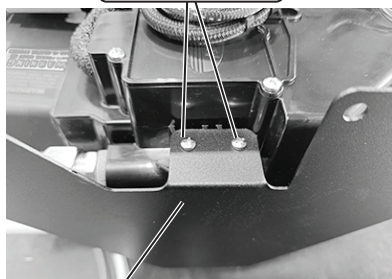
Photo 4



(3) 1/2"
Plastic Plugs

Photo 5

(2) #10 x 5/8
Screws



Evaporator
Firewall Bracket
648244

Photo 6

(2) #10 x 5/8
Screws

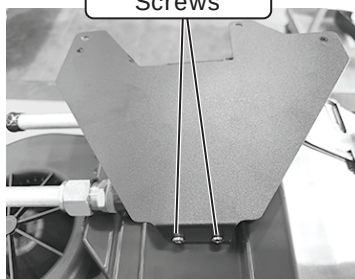


Photo 7

Install (2) 1/4-20
full-threaded studs



Photo 8



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Evaporator Preparation (Cont.)

6. Install (2) 1/4-20 well nuts into the front mounting provisions (See Photos 9 and 10, below).
7. Secure the evaporator cowl bracket using (2) 1/4-20 x 1" serrated flange bolts (See Photo 11, below).
8. Using (4) spring clips, install the dash plenum onto the evaporator module (See Photos 12 and 13, below).
9. Using (2) spring clips, install the floor plenum onto the back of the evaporator module (See Photo 14, below).
10. Using (2) spring clips, install the 2-vent plenum onto the front of the evaporator module (See Photo 15, below).

Install (2) 1/4-20
well nuts into front
mounting provisions

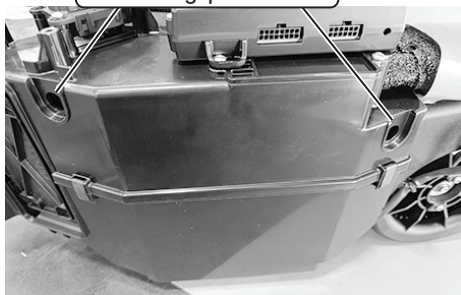


Photo 9

(2) 1/4-20
Well Nuts

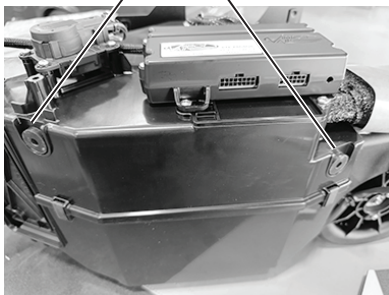


Photo 10

Install (2) 1/4-20 x
1" serrated flange
bolts into well nuts



Evaporator
Cowl Bracket
648242

Photo 11

Dash Plenum
625330



Photo 12

Using (4)
spring clips,
install dash
plenum

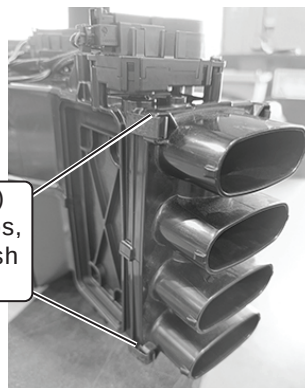


Photo 13

Floor Plenum
625338

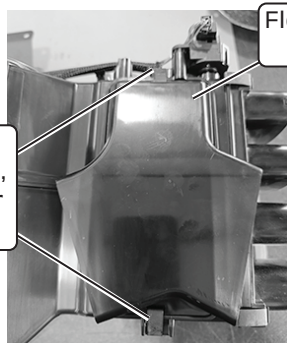


Photo 14

Using (2)
spring clips,
install floor
plenum

2-Vent Plenum
629905

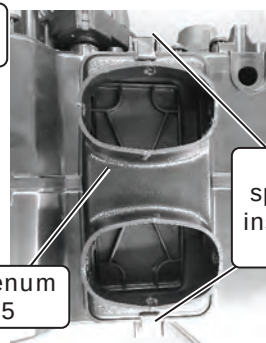


Photo 15

Using (2)
spring clips,
install 2-vent
plenum



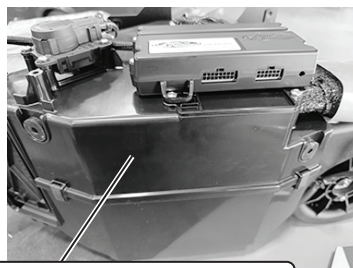
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Wiring Installation

1. Locate the heater control valve plug on the main wiring harness (white/yellow/purple). Route it through the 7/8" wiring grommet on the kick panel (See Photo 1, below) and into the kick panel opening. Then, through the wiring grommet on the fresh air cap (See Photo 2, below) and into the engine compartment.
2. Route the red, white and blue wires from the main harness through the 7/8" wiring grommet on the kick panel cover (See Photo 3, below) and into the kick panel opening. Then, through the wiring grommet on the fresh air cap and into the engine compartment (See Photo 4, below).
3. Leave approximately 16" of wiring between the kick panel and relay.
4. Place the evaporator module on the passenger-side floorboard.
5. Route the heavy gauge orange and white wires through the wiring grommet in the kick panel (See Photo 5, below) and into the kick panel opening. Then, through the wiring grommet on the fresh air cap and into the engine compartment (See Photo 6, below).



Route main wiring harness (white/yellow/purple) through 7/8" wiring grommet on kick panel



Route main wiring harness (white/yellow/purple) through wiring grommet on fresh air cap



Route red, white and blue wires from main harness through 7/8" wiring grommet on kick panel

Photo 3

Photo 1

Photo 2



Route red, white and blue wires from main harness through 7/8" wiring grommet on fresh air cap



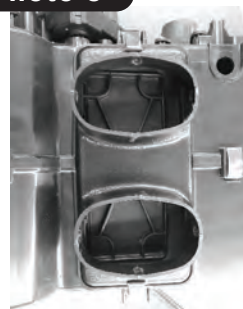
Route heavy gauge orange and white wires through 7/8" wiring grommet on fresh air cap

Route heavy gauge orange and white wires through 7/8" wiring grommet on kick panel

Photo 4

Photo 5

Photo 6





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Kick Panel Cover Installation

1. Route the 45° fittings of the #6 and #10 A/C hoses and the heater hoses through the fresh air cap into the passenger compartment (See Photo 1, below).
2. Route the A/C and heater hoses through the kick panel (See Figure 1, below).
3. Apply 1/4" bead of silicone around the mating surface of the kick panel.
4. Secure the kick panel using (5) #8 x 1 1/4" countersunk screws with washers (See Figure 1, below).

Route 45° fittings of #6 and #10 A/C hoses and heater hoses through fresh air cap into passenger compartment

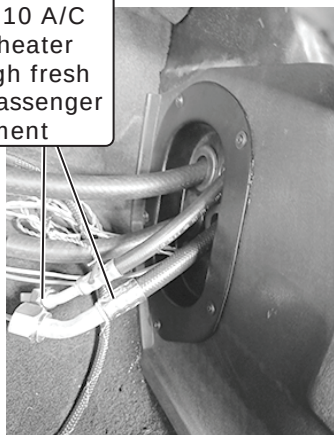


Photo 1

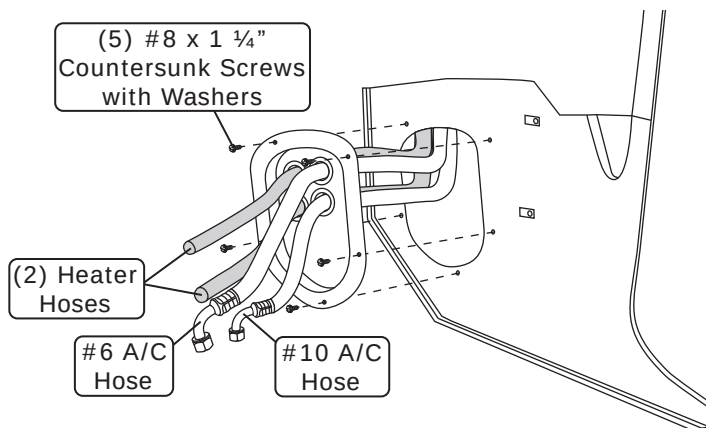


Figure 1

Fresh Air Cap Installation

NOTE: The fresh air cap installs on the engine side of the firewall.

1. Slide the fresh air cap into position and secure it to the firewall using (2) #14 x 3/4" washer head screws (See Photo 1, below).
2. Apply silicone around the outer edge of the fresh air cap.

Apply silicone around outer edge of fresh air cap

Secure fresh air cap with (2) #14 x 3/4" washer head screws



Photo 1



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Evaporator Installation

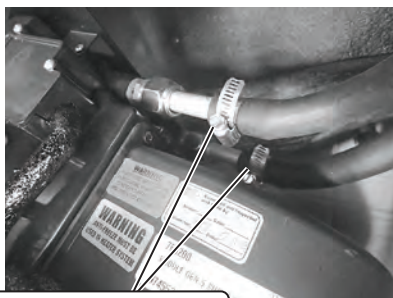
NOTE: To ensure a watertight seal between the passenger compartment and the vehicle exterior, for all bolts passing through the firewall, Vintage Air recommends coating the threads with silicone prior to installation.

1. With the evaporator module on the passenger-side floorboard, install the upper and lower heater hoses and hose clamps onto the upper and lower heater hardlines on the evaporator module (See Photos 1 and 2, below).
2. Lift the evaporator module up under the dashboard. Using the full-length studs, locate the upper mounting holes in the firewall (See Photo 3, below). **NOTE: When lifting up the evaporator module, be careful to prevent damage to the drain outlet located at the bottom of the evaporator module. Feed the hoses into or out of the kick panel fresh air cap as needed while lifting the evaporator module into position.**
3. Level the evaporator module front to back and left to right, then secure the cowl bracket to the cowl using (2) #14 x 3/4" washer head screws (See Photo 4, below).
4. Using a properly lubricated #6 O-ring (See Lubricating O-rings, Page 18), connect the #6 45° fitting to the block fitting adapter (See Photo 5, below).
5. Using a properly lubricated #10 O-ring (See Lubricating O-rings, Page 18), connect the #10 45° fitting to the block fitting adapter. Install press tape all around the #10 A/C hose fitting as shown in Photo 6, below.



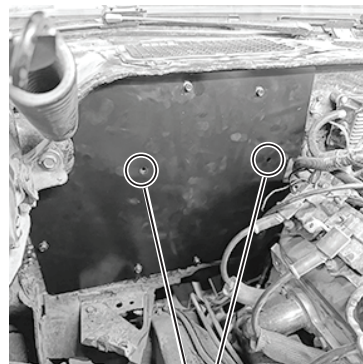
Upper and lower heater hardlines

Photo 1



Install upper and lower heater hoses and hose clamps onto upper and lower heater hardlines

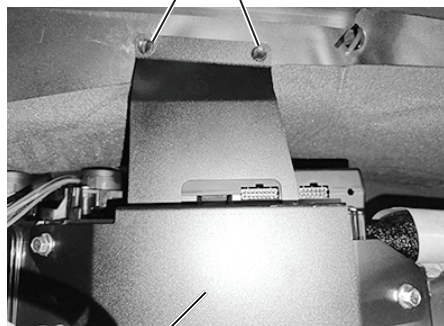
Photo 2



Using full-length studs locate upper mounting holes in firewall

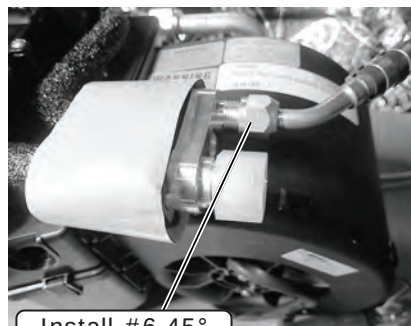
Photo 3

(2) #14 x 3/4"
Washer Head Screws



Evaporator
Cowl Bracket
648242

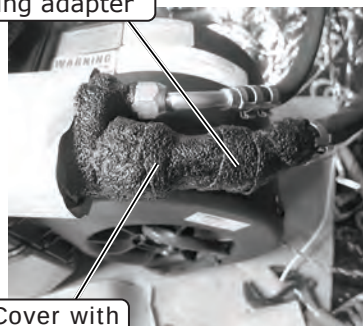
Photo 4



Install #6 45°
fitting onto block
fitting adapter

Photo 5

Install #10 45°
fitting onto block
fitting adapter



Cover with
supplied
press tape

Photo 6



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Evaporator Installation (Cont.)

6. From the engine compartment, replace the full-length studs with (2) 1/4-20 x 3/4" serrated flange black bolts (See Photo 7, below).
7. Connect the blower speed controller plug into the main wiring harness plug (orange and green wires) (See Photo 8, below).

(2) 1/4-20 x 3/4"
Serrated Flange Black Bolts

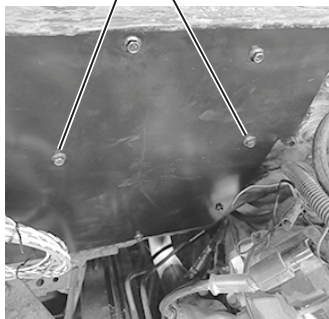
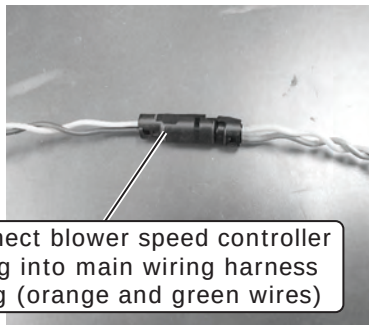


Photo 7



Connect blower speed controller
plug into main wiring harness
plug (orange and green wires)

Photo 8

Drain Hose Installation

1. Locate the evaporator drain on the bottom of the evaporator case.
2. In line with the drain, lightly make a mark on firewall. Then, measure 1" down and drill a 5/8" hole through the firewall (See Figure 1, below).
3. Install the drain hose onto the evaporator drain on the bottom of the unit, and route through the firewall.

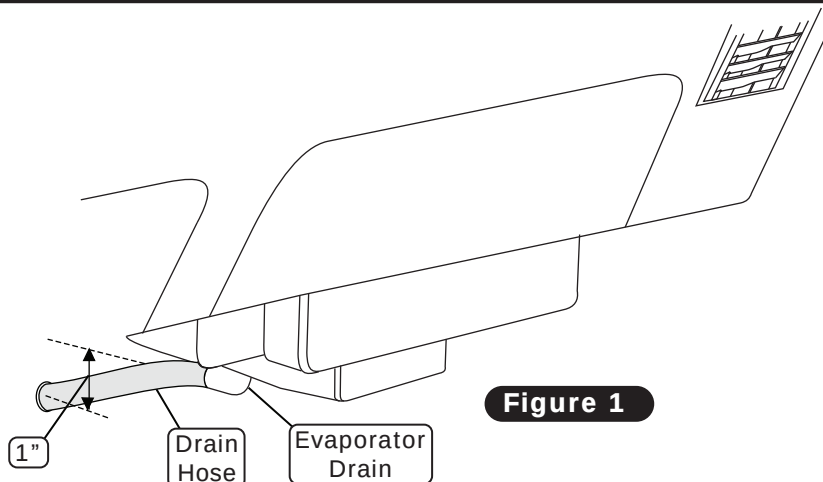


Figure 1



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Console Mounted Center Louver Installation (with OEM Console)

1. Remove the center console assembly:

- A. Open the center console glove box and remove the console glove box by removing the (2) OEM screws (retain) (See Photo 1, below).
- B. Remove the (4) OEM screws from the bracket located under the console glove box (See Photo 2, below).
- C. Remove the shifter knob by removing the center button, and then the snap ring beneath it (See Photo 3, below).
- D. Remove the shifter escutcheon by removing (4) OEM screws (See Photo 3, below).
- E. Disconnect the light bulb from the back side of the shifter escutcheon (retain) (See Photo 4, below).
- F. Remove the (2) OEM screws from the center console support bracket located on the front side of the center console assembly (retain) (See Photos 5 & 6, below).

Center Console
Glove Box

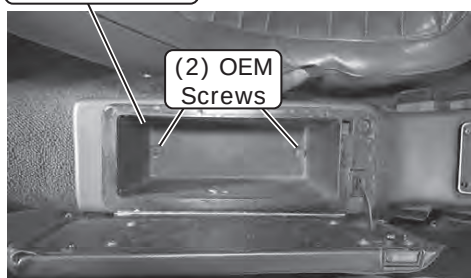


Photo 1

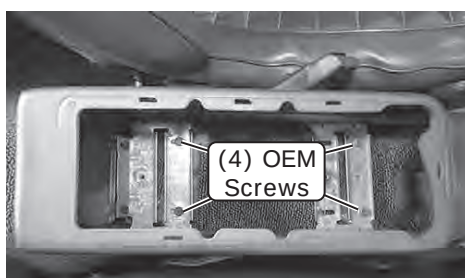


Photo 2

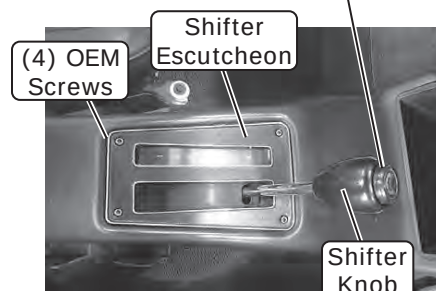


Photo 3

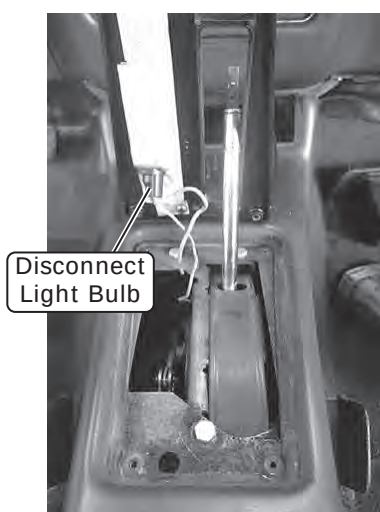


Photo 4

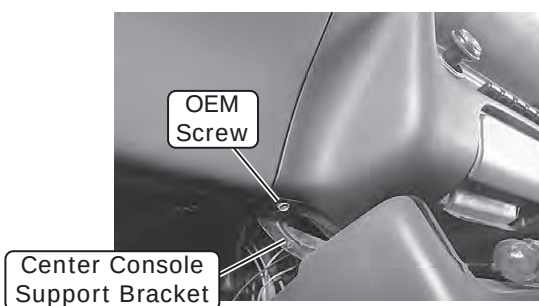


Photo 5

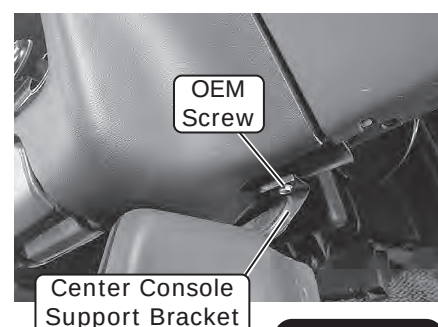


Photo 6



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Console Mounted Center Louver Installation (w/OEM Console)(Cont.)

2. Remove the console map pocket by removing (4) screws (See Photos 7 and 8, below).
3. Enlarge the (2) holes on the console bracket to 11/64" (See Photo 8, below).
4. Locate the console mounted center louver housing, the bezel and the louver deflector (See Photo 9, below). On this style louver housing, the deflector needs (1) nylon washer and (1) rubber washer on each end (See Photo 9, below). Once confirmed, proceed to install the deflector from the back side of the bezel **NOTE: Confirm the deflector does not feel loose when rotating. Now, install the housing onto the back of the louver bezel, aligning the center tab. Silicone all around the back to secure the housing (See Photos 10 & 11 below).**
5. Insert the center louver assembly into the console. **NOTE: The notch at the back of the center louver assembly indicates the bottom side of the console (See Photo 12, below).**
6. Turn the console upside down, being careful to avoid moving the center louver assembly, and install the console mounted center louver bracket using (2) 8-32 x 3/8" bolts, washers and locknuts (See Photo 13, below).
7. Once the bracket has been installed, mark and drill (3) 5/64" holes onto the center louver assembly, using the bracket as a template, and secure using (3) #6 x 3/8" pan head screws (See Photo 13, below).
8. Secure (2) 20" lengths of 2 1/2" duct hose onto the back side of the center louver assembly while reinstalling the center console.

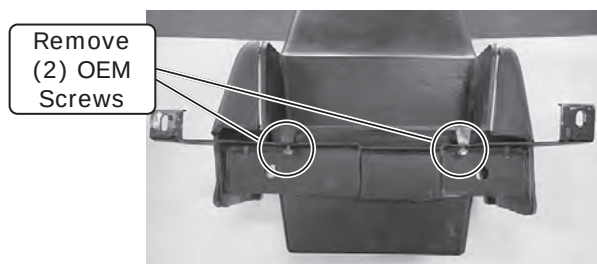


Photo 7

Top View of Center Console

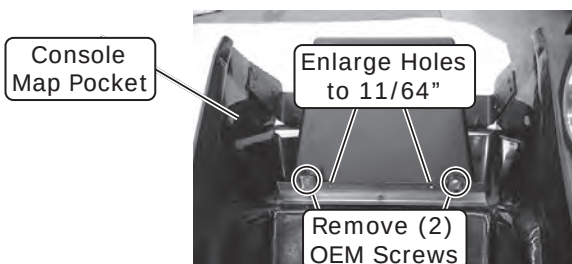


Photo 8

Bottom View of Center Console

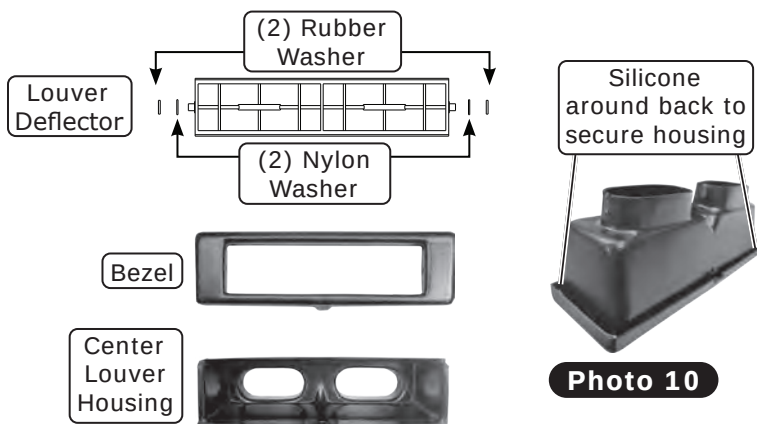


Photo 9

Photo 10

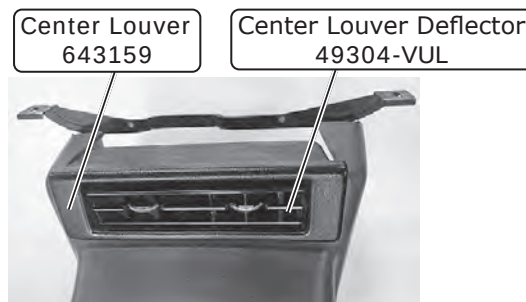


Photo 11

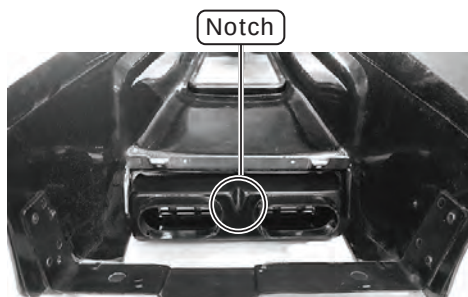


Photo 12

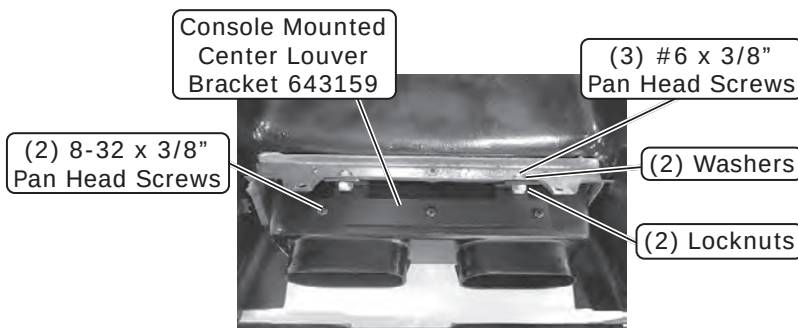


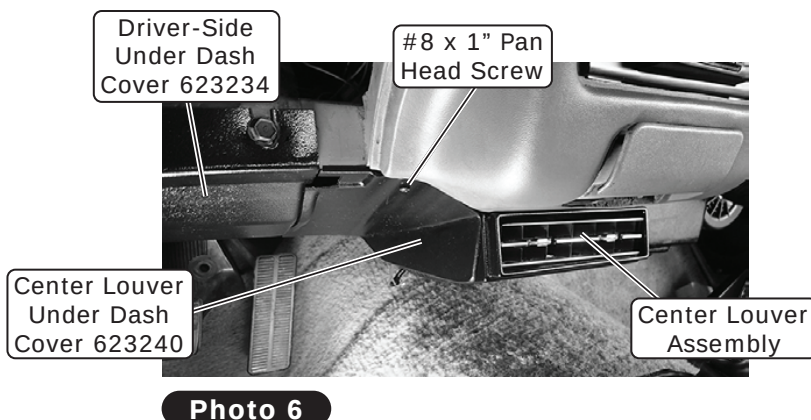
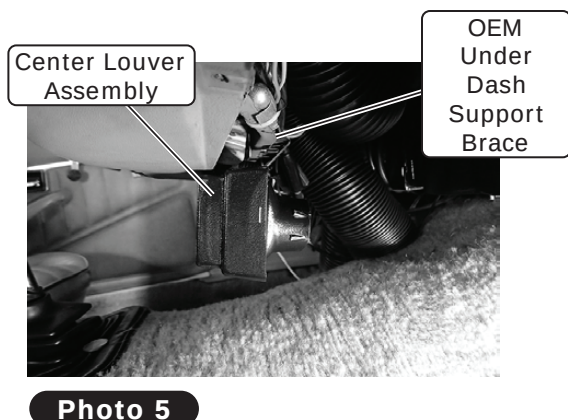
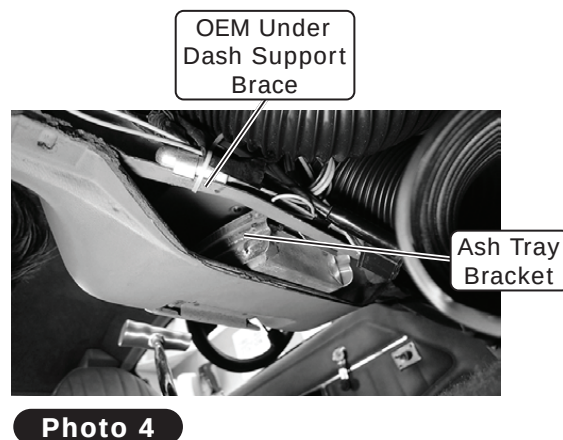
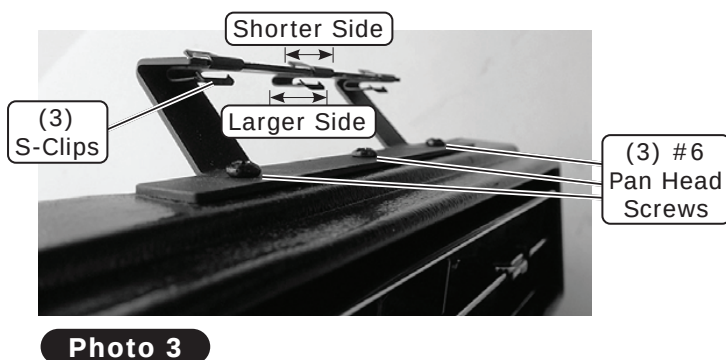
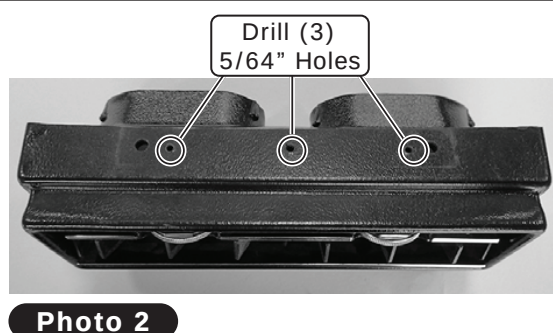
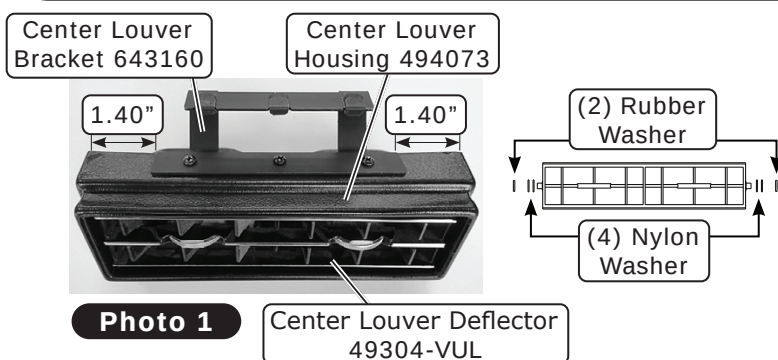
Photo 13



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Under Dash Center Louver Installation (without OEM Console)

1. Locate the center louver deflector and the under dash center louver housing. Install the louver deflector into the housing. On this style louver, the housing deflector needs (2) nylon washers and (1) rubber washer on each end (See Photo 1, below).
2. Locate the under dash center louver bracket and insert (3) S-clips into the notches (See Photos 1 & 3, below). **NOTE: The shorter side of the S-clip installs onto the center bracket, and the longer side installs onto the dash brace.**
3. Place the center louver bracket on top of the center louver assembly as shown in Photo 1, below. Using the bracket as a guide, match drill (3) 5/64" holes into the center louver assembly, and install (3) #6 pan head screws (See Photos 1, 2 & 3 below). **NOTE: The top side is the side with (2) holes.**
4. Install the center louver assembly onto the OEM under dash support brace located behind the ash tray bracket (See Photos 4, 5 and 6 below). **NOTE: Be sure to center the louver assembly before installing it.**
5. Secure (2) 10" lengths of 2 1/2" duct hose on the back side of the center louver assembly.





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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

Disclaimer: Before cutting duct hose to length, verify the routing will work for your application.

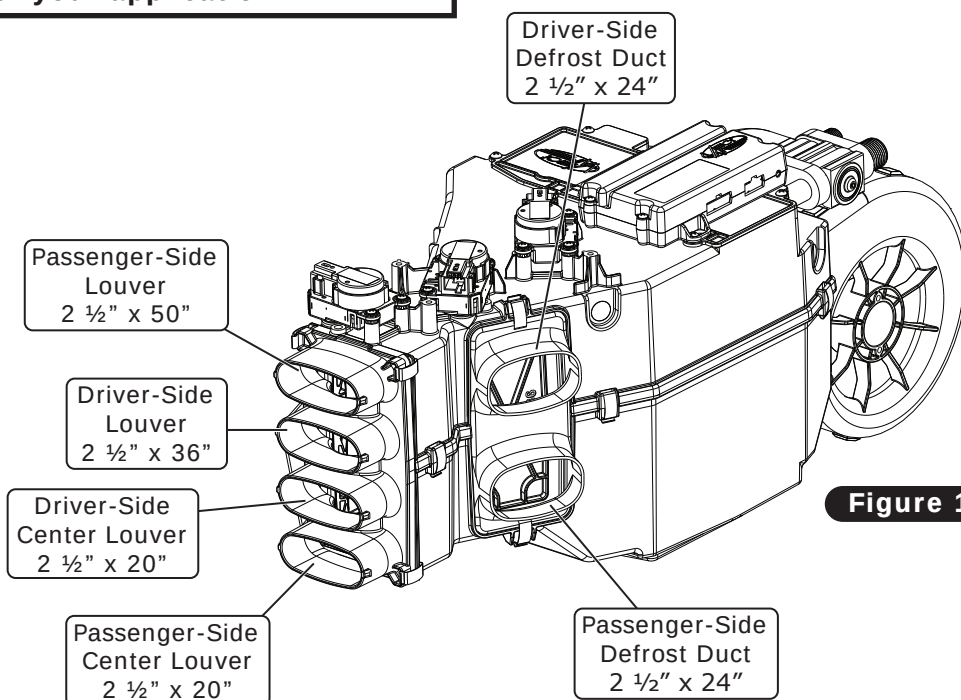


Figure 1



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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Heater Hose & Heater Control Valve Installation

1. Route a piece of heater hose from the water pump to the upper heater core fitting (See Photo 1, below). Secure using hose clamps.
2. Route a piece of heater hose from the intake to the heater control valve, and from the heater control valve to the lower heater core fitting (See Photo 1 and Figure 1, below). **NOTE: Install the heater control valve in line with the intake manifold (pressure side) heater hose, and secure using hose clamps. Also note proper flow direction.**

A/C and Heater Hose Routing

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 (not supplied) will need to be installed in the heater hose.

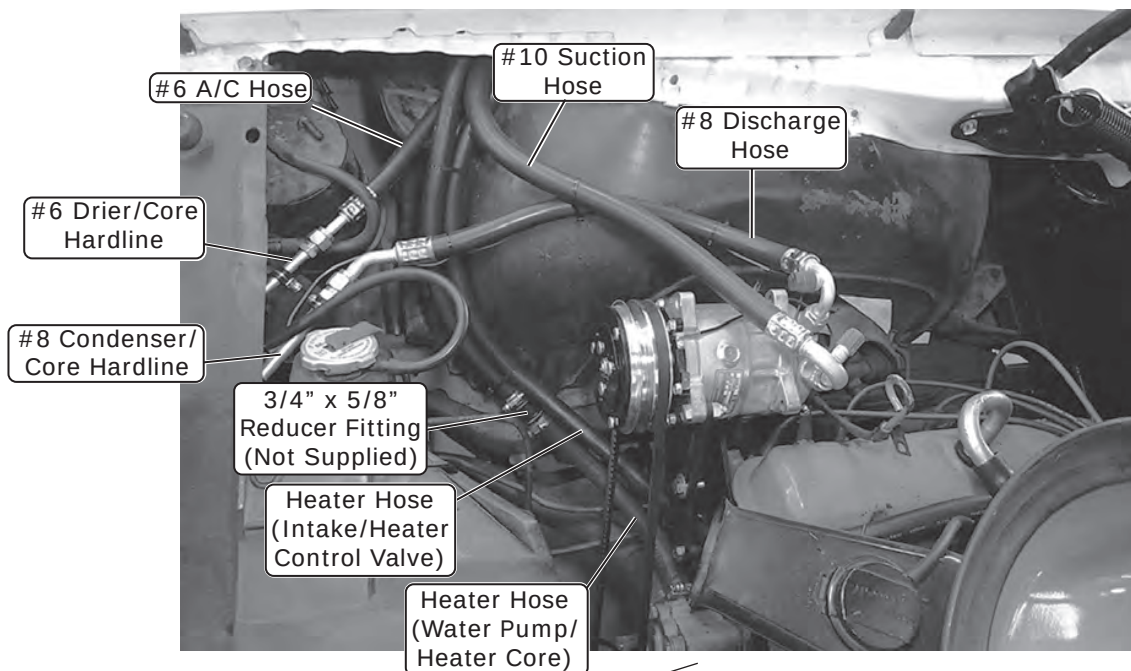


Photo 1

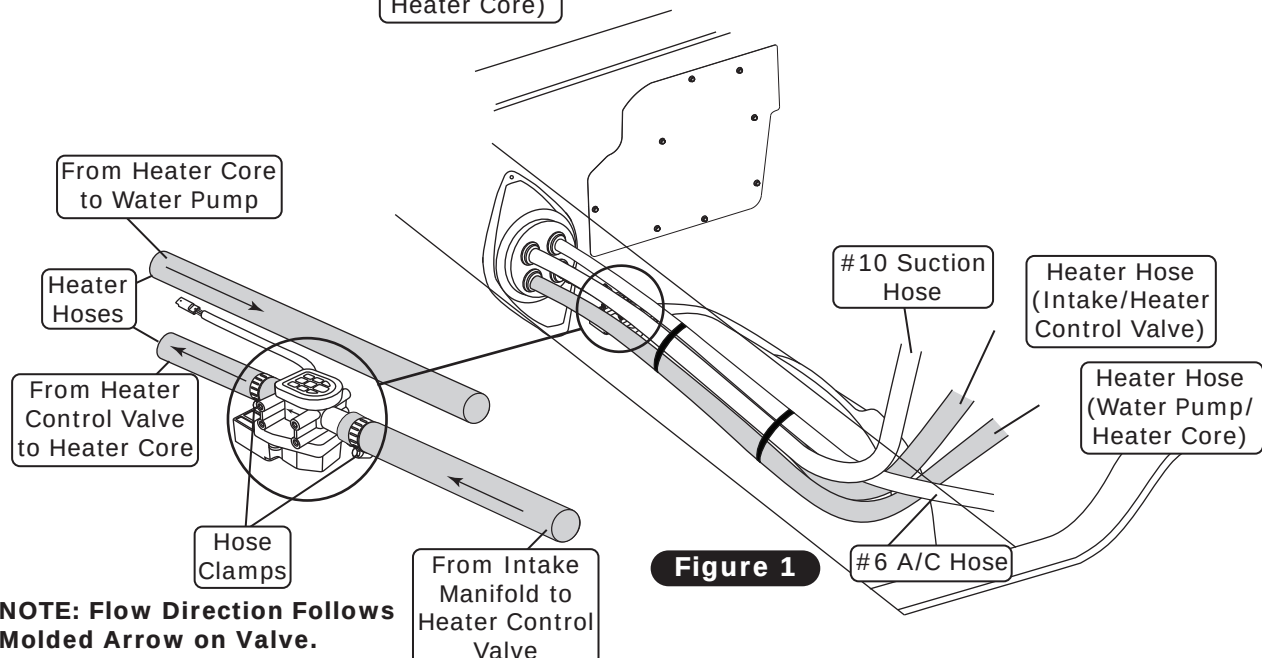


Figure 1

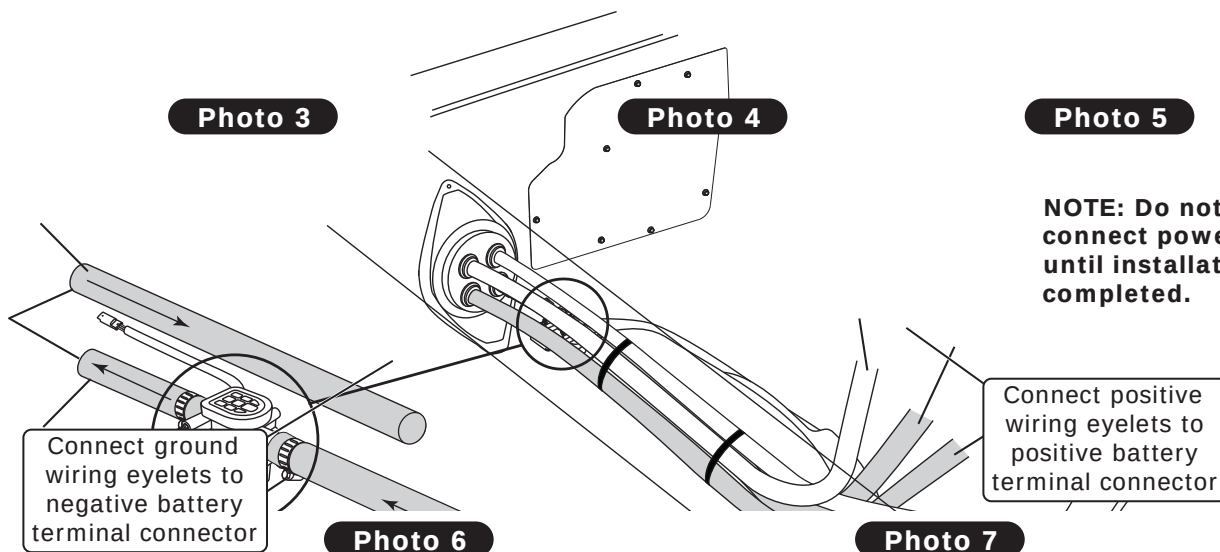
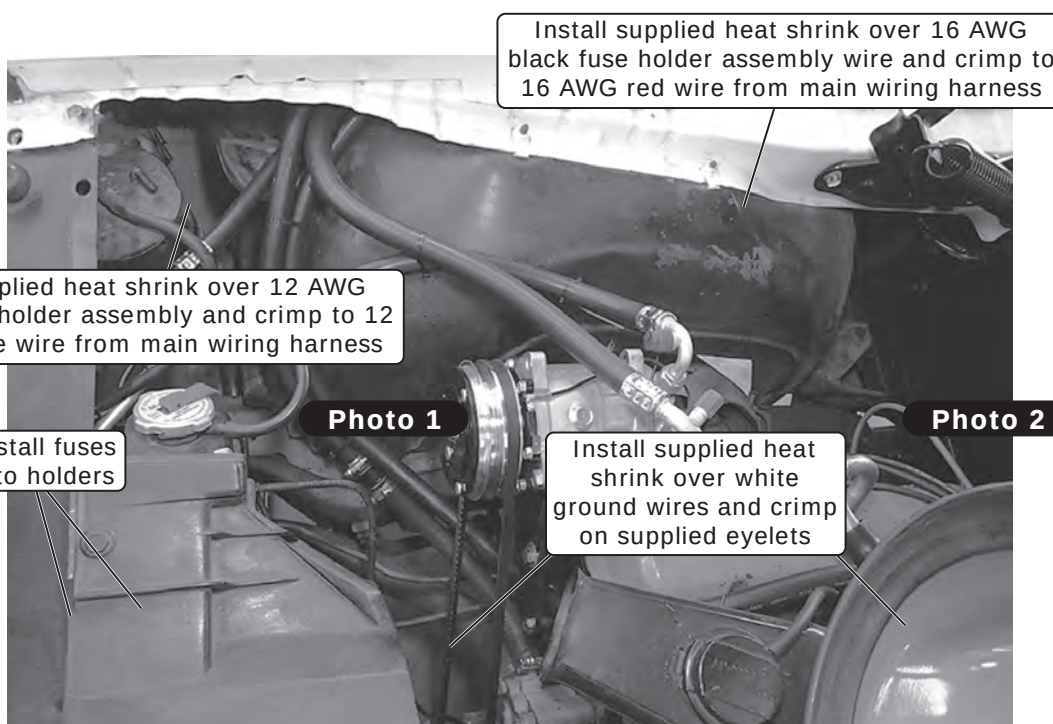


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Engine Compartment Wiring

1. Route power and ground wires toward the battery.
2. 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 1, below and Quality Crimp Guidelines, Page 34).
3. 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 2, below and Quality Crimp Guidelines, Page 34).
4. Install fuses into the holders (See Photo 3, below).
5. Install the supplied heat shrink over the white ground wires, then crimp on the supplied eyelets (See Photos 4 and 5, below and Quality Crimp Guidelines, Page 34).
6. Connect the ground wiring eyelets to the negative battery terminal connector (See Photo 6, below).
7. Connect the positive wiring eyelets to the positive battery terminal connector (See Photo 7, below).

NOTE: Do not connect power until installation is completed.



NOTE: Do not connect power until installation is completed.



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Glove Box Installation

1. Install the new glove box provided with the kit, and secure using OEM screws as shown in Photo 1, below.
2. Reinstall the glove box door.



Photo 1

Driver-Side Under Dash Cover Installation

1. Loosen (2) bolts on the dash support brace under the steering column (See Photo 1, below).
2. Install the driver-side under dash cover and tighten the screws (See Photo 1, below).
3. If using the under dash center louver, install the center louver under dash cover between the driver-side under dash cover and the center louver assembly using a #8 x 1" pan head screw (See Photo 6, Page 26).
NOTE: Skip this step for all other center louver options.
4. Reinstall the OEM plastic steering column cover.

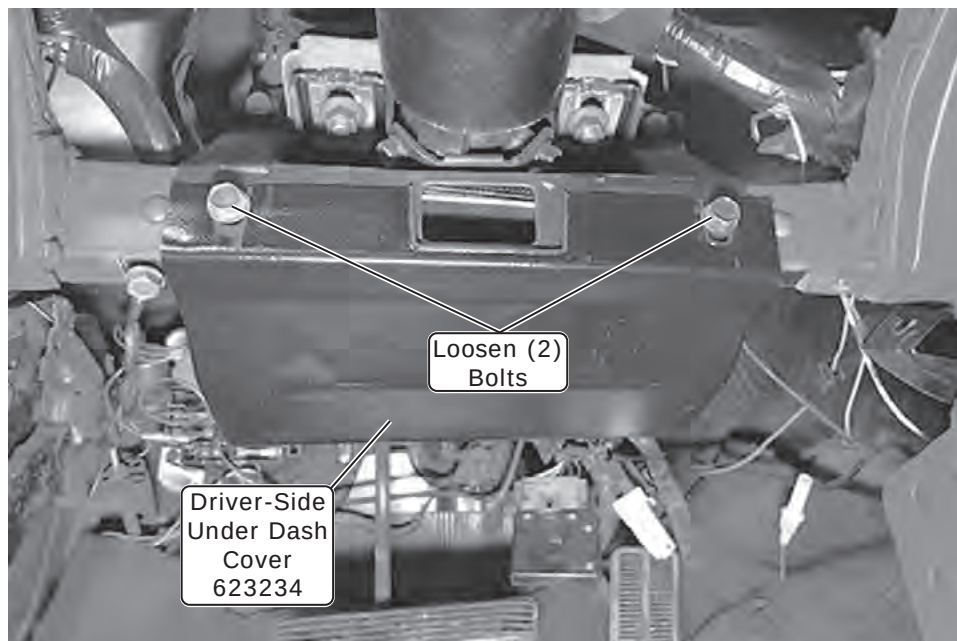


Photo 1



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Final Steps: Installation Check

Installation Check	
ITEM TO CHECK	Procedure
☐ ECU	If no blinking is observed after 1 minute of turning the ignition on, go to the next check. If repetitive blinking is observed, go to the Advanced Diagnostics Section to diagnose.
☐ Blower speed control	Set the blower speed control to OFF, <u>confirm that the blower is off</u>. Position the blower speed control to LOW then MEDIUM and then HIGH. <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.
☐ Mode control	Set the MODE control to the DASH position. <u>Confirm that air is being blown at the dash vents.</u> Set the MODE control to the FLOOR position. <u>Confirm that air is being blown at the floor vents.</u> Set the MODE control to the DEFROST position. <u>Confirm that all air is being blown from the defrost vents</u> If heater lines are installed: Set the MODE control to the DASH position. Set the TEMP control to the MAX HEAT position. <u>Confirm that HOT air is coming from the dash vents.</u>
☐ Temperature control	If system is charged: Set the TEMP control to the MAX COOL position. <u>Confirm that COLD air is coming from the dash vents.</u> Also <u>confirm that the compressor "clicks" on</u> when adjusting the TEMP control from the MAX HEAT position to the MAX COOL position.
☐ AC Indicator (If applicable)	While the MODE control is set to the DASH position, and the TEMP control is set to the MAX COOL/MIN HEAT position, <u>confirm that the blue AC Indicator light is on</u>.
☐ Backlight (If applicable)	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>.
☐ Fittings	Verify AC and Heater fittings are all tight.



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Final Steps: Completing the Install

1. Install the duct hoses as shown in Duct Hose Routing, Page 28.
2. Install the control panel assembly. Refer to control panel instructions.
3. Plug the wiring harnesses into the ECU module on the sub case. Wire according to the wiring diagrams on Pages 35 and 36.
4. Refer to the instructions on Pages 25-26, and install the center louver assembly.
5. Refer to the instruction on Page 31, and install the glove box.
6. Refer to the instruction on Page 31, and install the driver-side under dash cover.
7. Reinstall all previously removed items.
8. 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.
9. Double check all fittings, brackets and belts for tightness.
10. Vintage Air recommends that all A/C systems be serviced by a licensed automotive A/C technician.
11. Evacuate the system for a minimum of 45 minutes prior to charging, and perform a leak check prior to servicing.
12. Charge the system to the capacities stated on Page 4 of this instruction manual.
13. See Operation of Controls procedures on Page 37.



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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

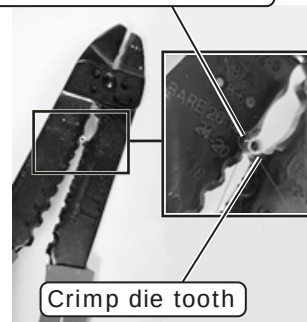


Photo 2

Good Ring Terminal Crimp Bad Ring Terminal Crimp

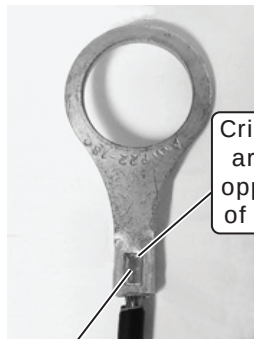


Photo 3

Crimp
area is
centered
on barrel

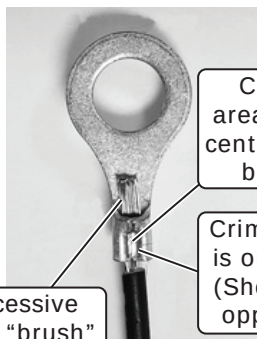


Photo 4

Excessive
wire "brush"

Crimp
area is not
centered on
barrel

Crimp area
is on seam
(Should be
opposite)

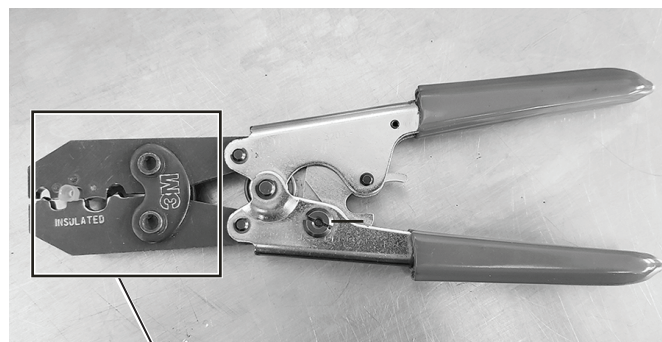


Photo 5

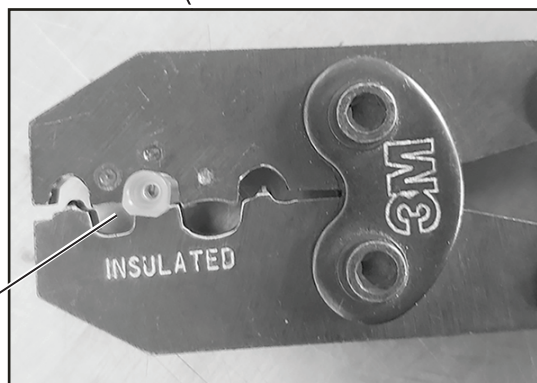


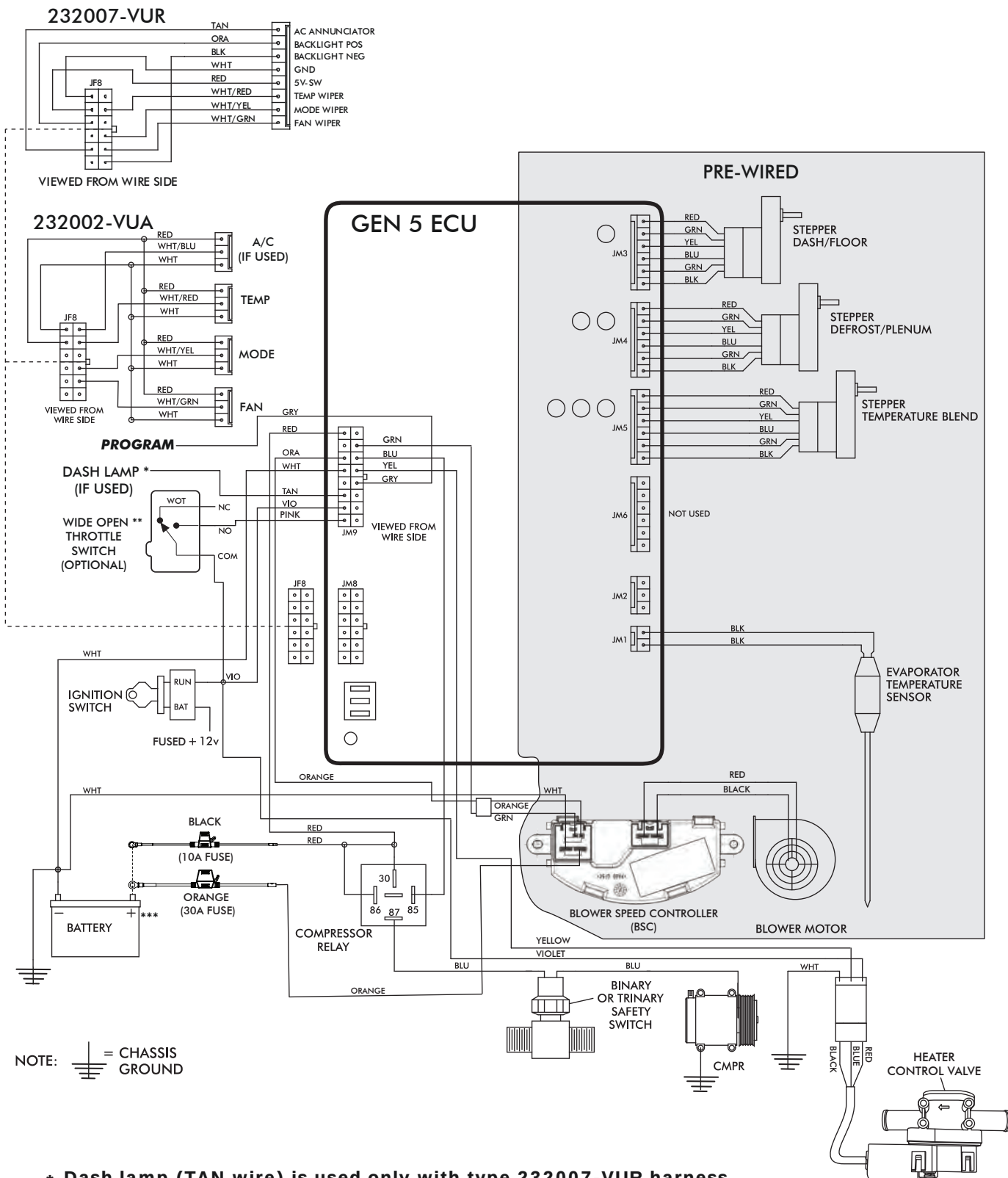
Photo 5a

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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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.

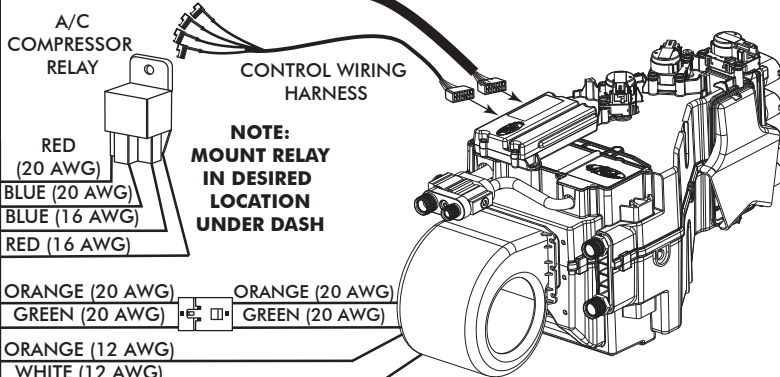
*** Install fuse assemblies at or as near to the battery as possible.



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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.

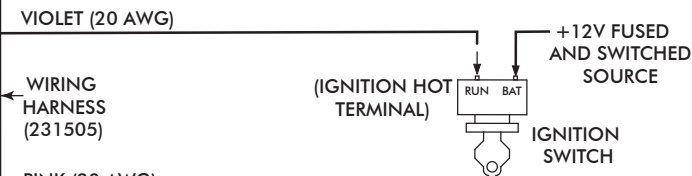
Wide Open Throttle Switch (Optional):

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):

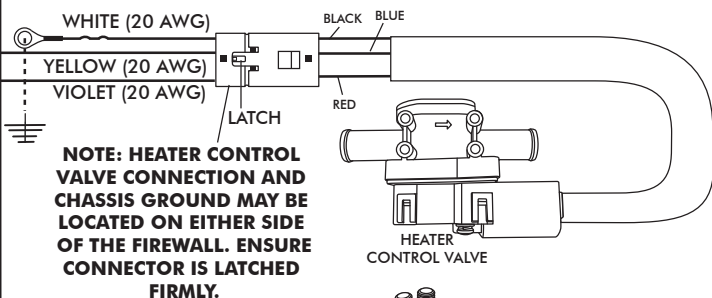
If using a Vintage Air control panel with back light, connect the 20 AWG tan wire to the vehicle's dash back light 0-12V using provided butt splice (PN 226004).

WIRING HARNESS (232020)



FIREWALL

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.

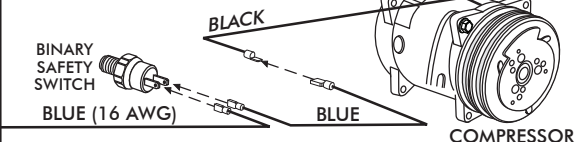
Battery Connections:

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 16 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.



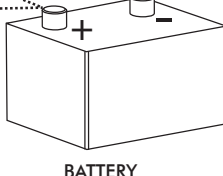
WHITE (12 AWG)

WHITE (20 AWG)

ORANGE (12 AWG)

RED (16 AWG)

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



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 between operations, to indicate the change.

Blower Speed

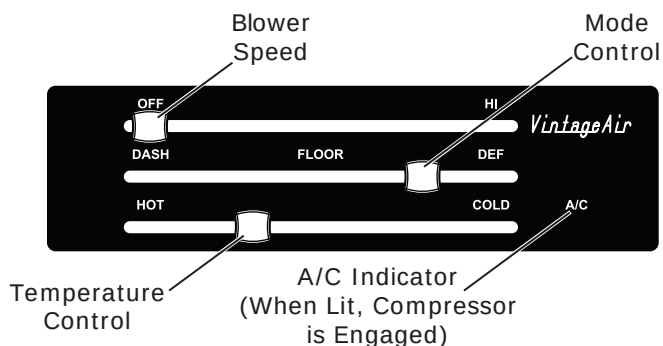
This lever/knob controls blower speed, from OFF to HI.

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

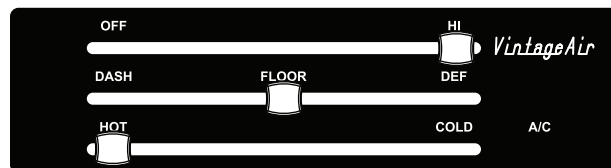
Adjust to desired speed.

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.	Danger: Never bypass safety switch with engine running. Serious injury can result. 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.		
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.	System shuts off blower at 10V. Poor connections or weak battery can cause shutdown at up to 11V.
	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



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Packing List: Evaporator Kit (561418)

No.	Qty.	Part No.	Description
1.	1	765200	Gen 5 Magnum Max Module with 404 ECU
2.	1	781418	Accessory Kit

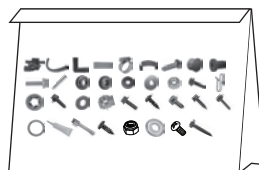
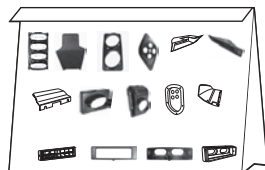
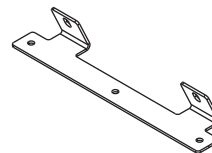
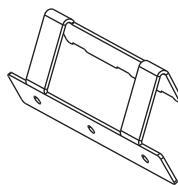
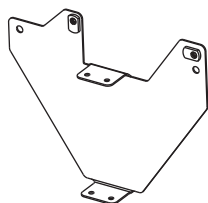
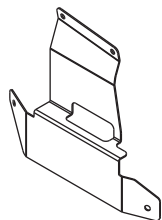
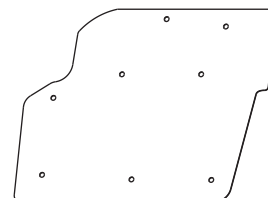
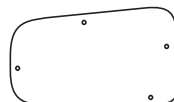
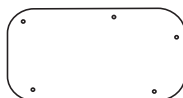
Checked By: _____
Packed By: _____
Date: _____

1



**Gen 5 Magnum Max
Module with 404 ECU
765200**

2



**Accessory Kit
781418**

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