

1966-67 Chevrolet Chevelle

without Factory Air Gen 5 Evaporator Kit (561273)

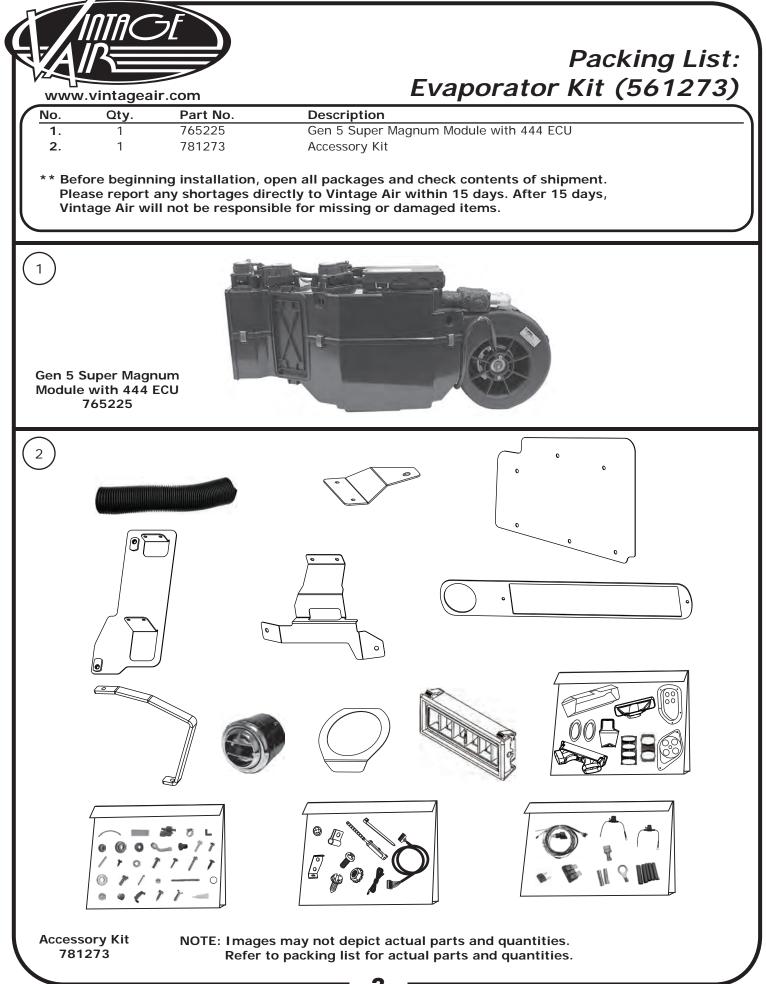


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Table of Contents

Cover	1
Table of Contents	. 2
Packing List/Parts Disclaimer	. 3
Information Page	4
Wiring Notice	5
Engine Compartment Disassembly, Condenser Assembly and Installation, Compressor and Brackets	6
Passenger Compartment Disassembly	
Firewall Modification, Firewall Cover Preparation	
Firewall Cover Installation and Insulation, Defrost Duct Prepration & Installation	
66 Chevelle Kick Panel Modification	
67 Chevelle Kick Panel Modification	
Driver and Passenger-Side Louver Installation.	
Driver Side Louver Template	
Passenger Side Louver Template	
Center Louver Installation, Alternate Mounting Procedure	
Alternate Mounting Procedure (Cont.)	
Fresh Air Cap & Kick Panel Cover Preparation	
Lubricating O-rings, Properly Seated O-ring Land	
Evaporator Module Preparation, Wiring Installation	
Wiring Installation (Cont.), Kick Panel Fresh Air Cap Installation	
Evaporator Installation, Drain Hose Installation	
Fresh Air Cap Installation, Heater Hose & Heater Control Valve Installation	
Heater Hose & Heater Control Valve Installation (Cont.), A/C Hose Installation	
A/C and Heater Hose Routing	30
Dash Support Bracket Installation, Wiring Final	31
Engine Compartment Wiring	
Final Steps: Installation Check	33
Duct Hose Routing	34
Final Steps: Completing the Install	
Quality Crimp Guideline	36
Gen 5 Wiring Diagram	37
Gen 5 Wiring Connection Instruction	38
Operation of Controls	39
Troubleshooting Guide	40
Troubleshooting Guide (Cont.), Advanced Diagnostics and Troubleshooting Guide	41
1966 Chevelle Kick Panel Modification Template	42
1967 Chevelle Kick Panel Modification Template	43
Packing List	44





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.

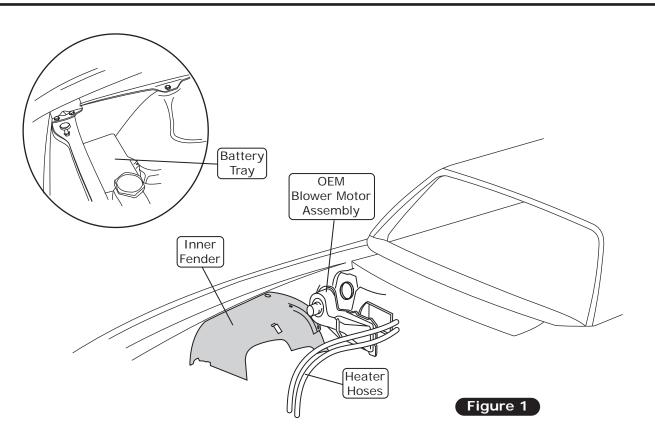


Engine Compartment Disassembly

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 the battery tray (retain).
- 3. Drain the radiator.
- 4. Remove the radiator (retain). NOTE: Removal of radiator is only needed if installing a condenser kit.
- 5. Remove the passenger-side front wheel, then remove the inner fender well (See Figure 1, below).
- 6. Remove the OEM blower assembly (discard).
- 7. Remove the OEM heater hoses (discard) (See Figure 1, below).
- 8. Remove the OEM heater wiring.



Condenser Assembly and Installation

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

Compressor and Brackets

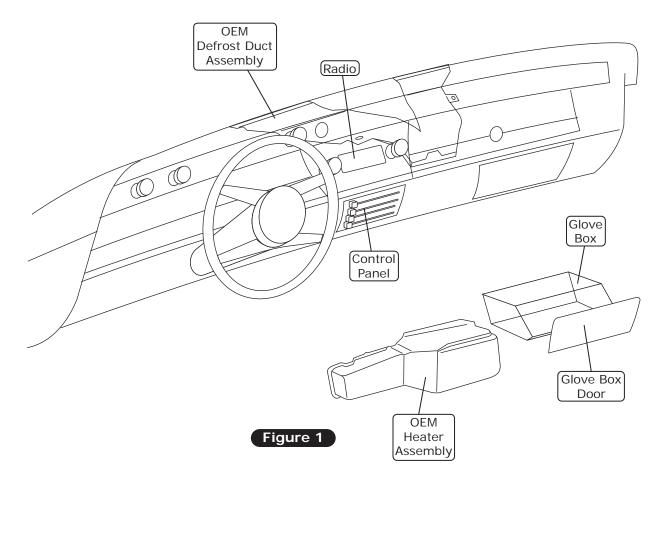
1. Refer to separate instructions included with the bracket kit to install the compressor bracket.

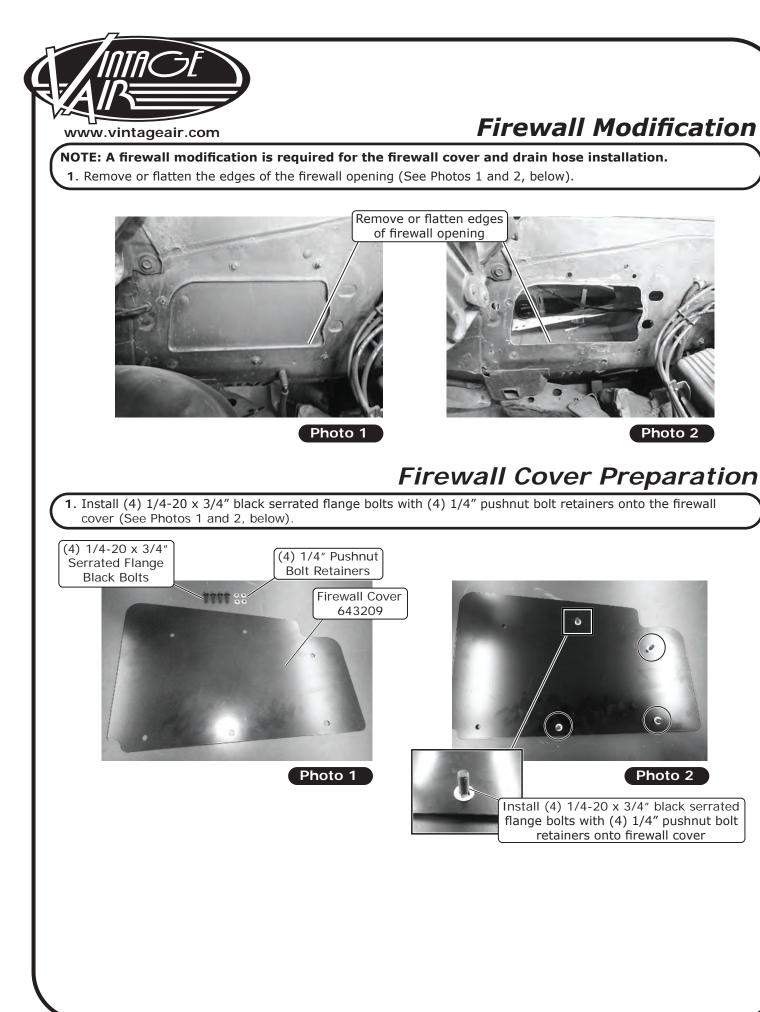


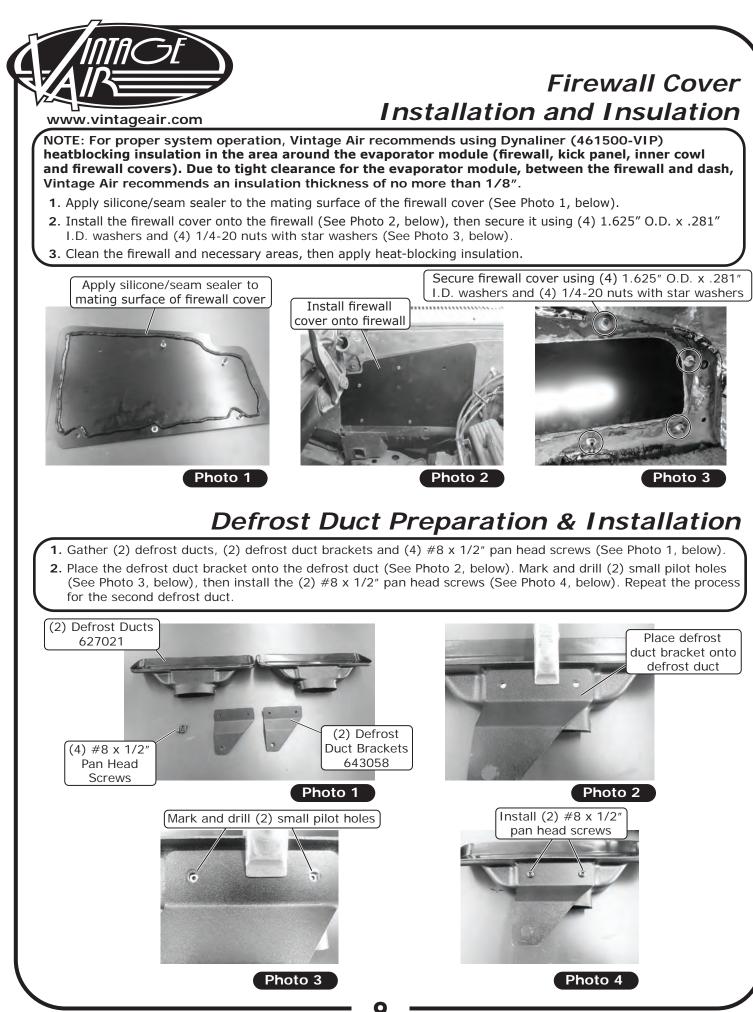
Passenger Compartment Disassembly

Perform the following:

- 1. Remove the glove box door (retain) (See Figure 1, below).
- 2. Remove the glove box (discard) (See Figure 1, below).
- 3. Disconnect all wires and cables from the OEM heater assembly (discard).
- 4. Disconnect all wires and cables from the control panel and radio.
- 5. Disconnect the light from behind the control panel. Remove the (2) mounting screws, then remove the control panel from the dash (See Figure 1, below).
- 6. Disconnect the speedometer cable and wiring to the switches.
- 7. Remove the (5) mounting bolts on the bottom of the dash.
- 8. Remove the steering column hardware, then lower the column.
- 9. Remove (9) dash mounting screws.
- 10. Remove the dashboard from the vehicle.
- 11. Remove the OEM dashboard support bracket and hardware (discard).
- 12. Remove the OEM defrost duct assembly (discard).
- 13. Remove the OEM heater assembly (discard) (See Figure 1, below).
- 14. Remove the passenger-side kick panel/fresh air door assembly.

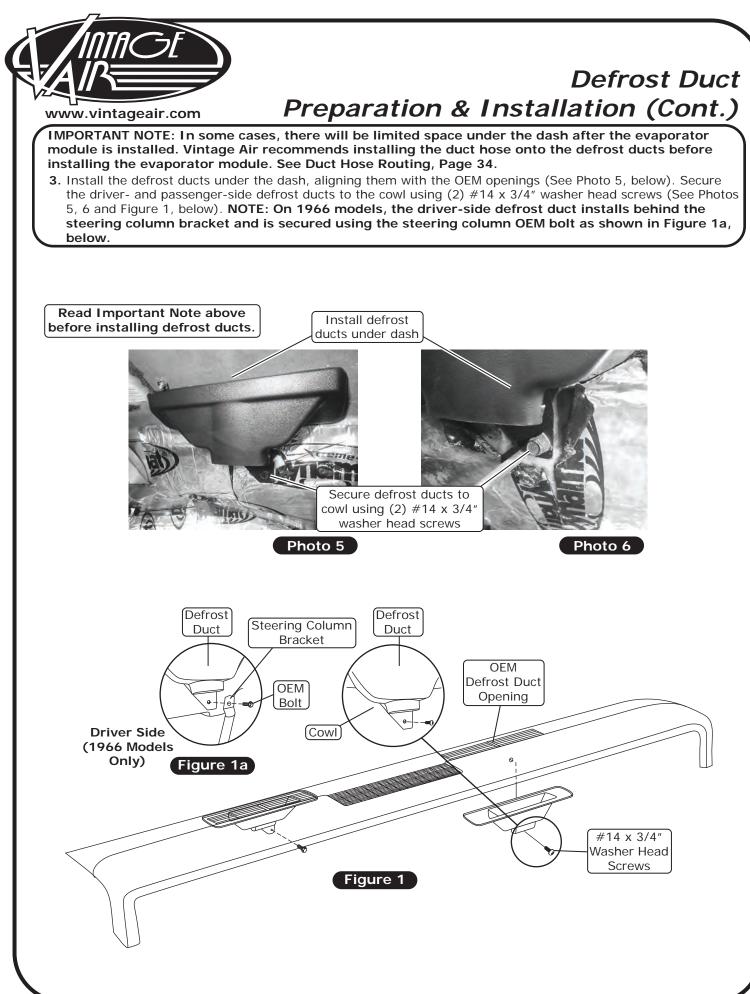






907853 REV C 04/16/24 PG 9 OF 44

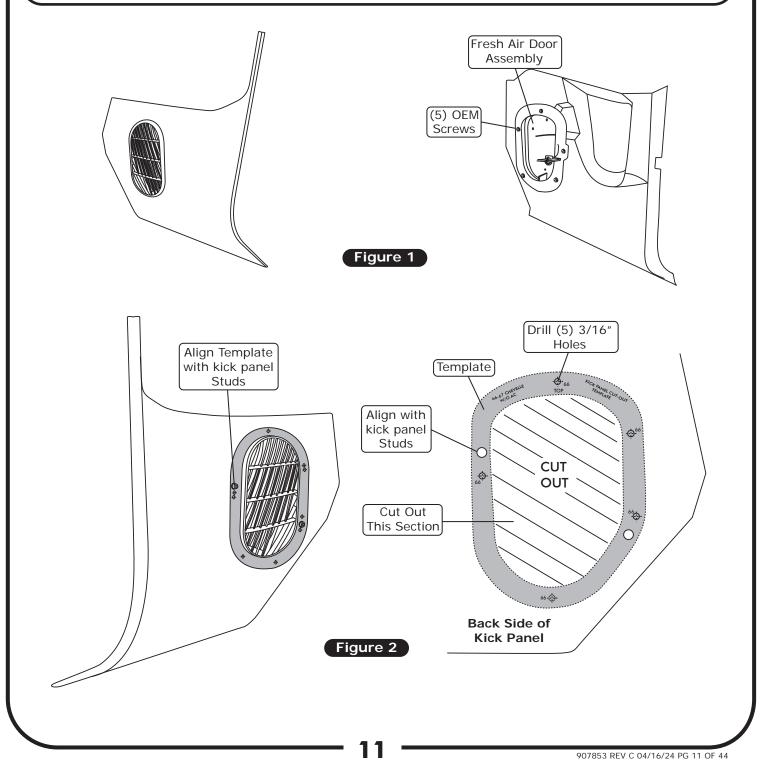
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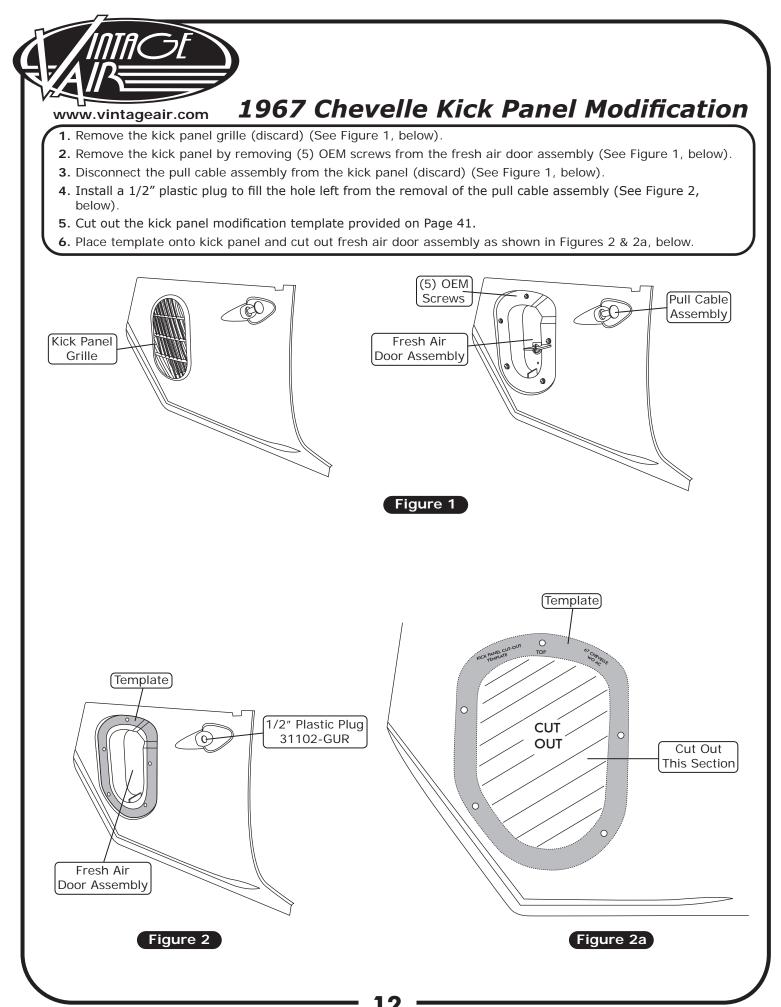


1966 Chevelle Kick Panel Modification

www.vintageair.com 1. Remove the kick panel.

- 2. Remove the kick panel fresh air door assembly by removing (5) OEM screws (See Figure 1, below).
- 3. Disconnect the pull cable assembly from under the dash (discard) (See Figure 1, below).
- 4. Cut out the kick panel modification template provided on Page 40.
- 5. Align the template onto the back side of the kick panel as shown in Figure 2, below.
- 6. Cut out the kick panel grille as shown in Figure 2, below.
- 7. Drill (5) 3/16" holes into the kick panel (See Figure 2, below).



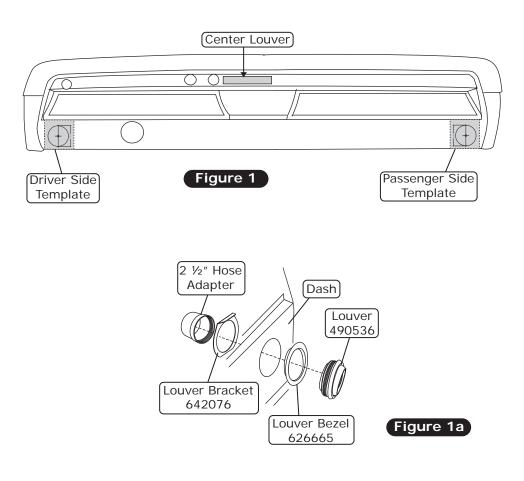


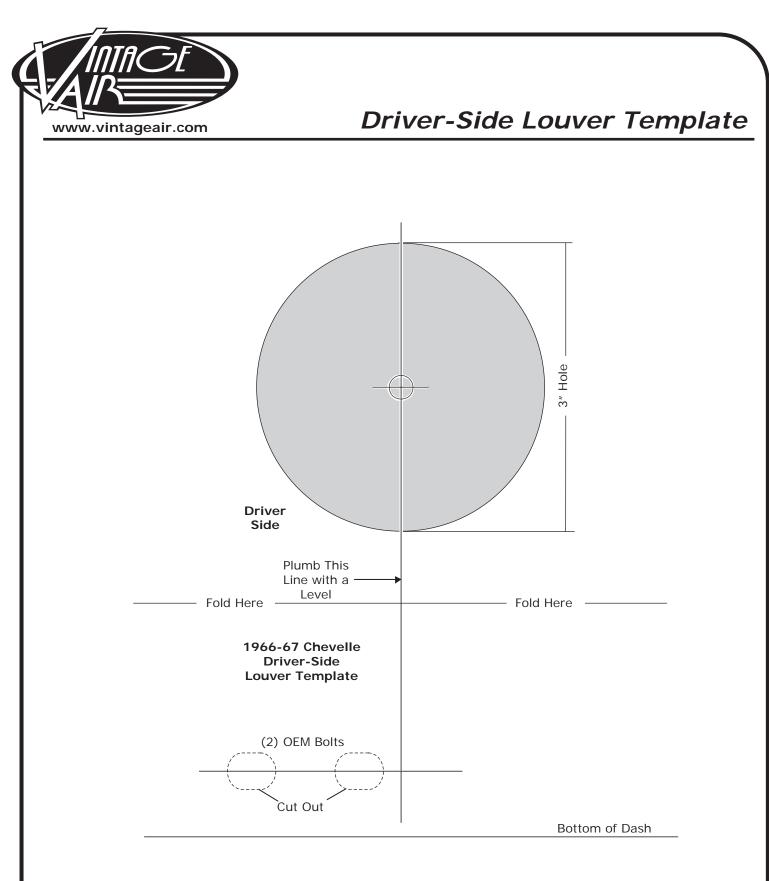


Driver- and Passenger-Side Louver Installation

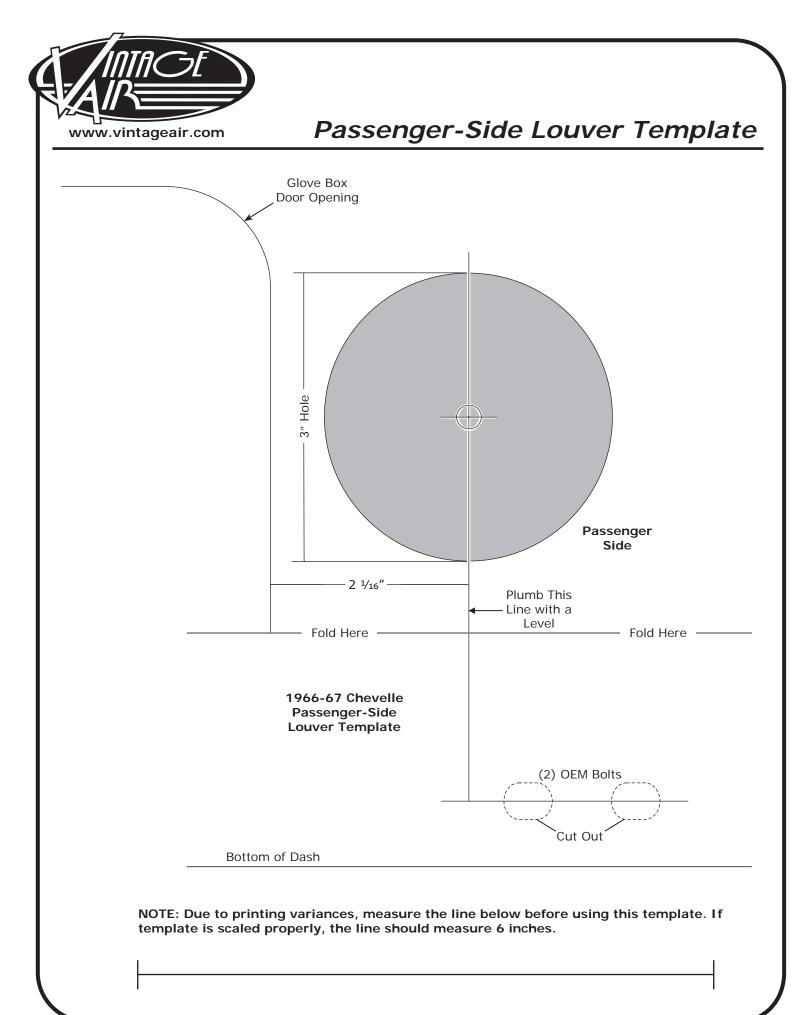
Perform the following on a workbench:

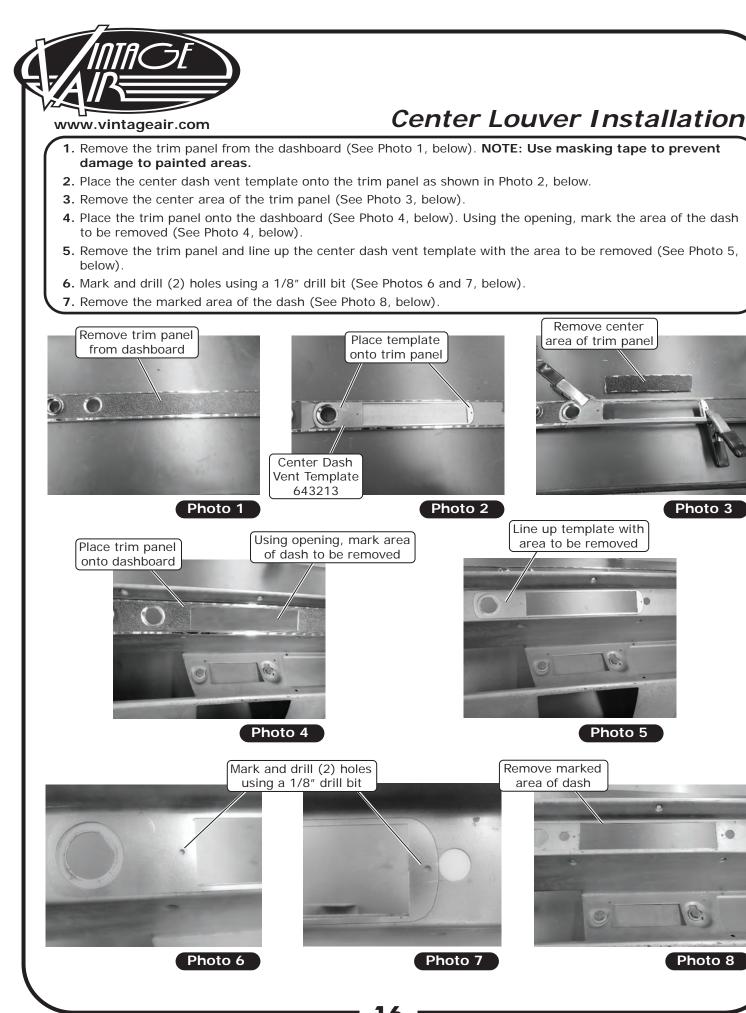
- 1. Cut out the template provided on Page 14. Place the driver-side template onto the dash, by aligning the left side of the template against the edge of the dash, then align the bottom of the template to the bottom of the dash as shown in Figure 1, below.
- **2.** Cut out the template provided on Page 15. Place the passenger-side template onto the dash, by aligning the right side of the template against the edge of the dash, then align the bottom of the template to the bottom of the dash as shown in Figure 1, below.
- **3.** Once the templates are aligned correctly, use a center punch to mark the holes on the dash. Remove the templates. Use a 3" hole saw to cut the holes in the dash (See Figure 1, below).
- 4. Install louvers into the dash as shown in Figure 1a, below.





NOTE: Due to printing variances, measure the line below before using this template. If template is scaled properly, the line should measure 6 inches.

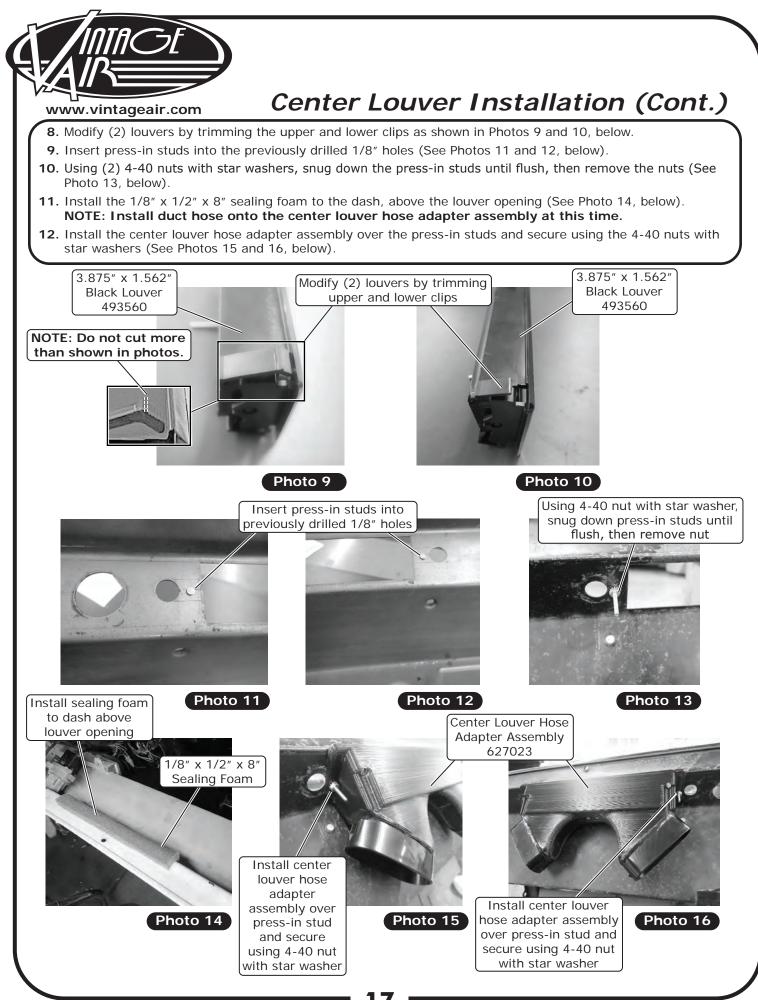


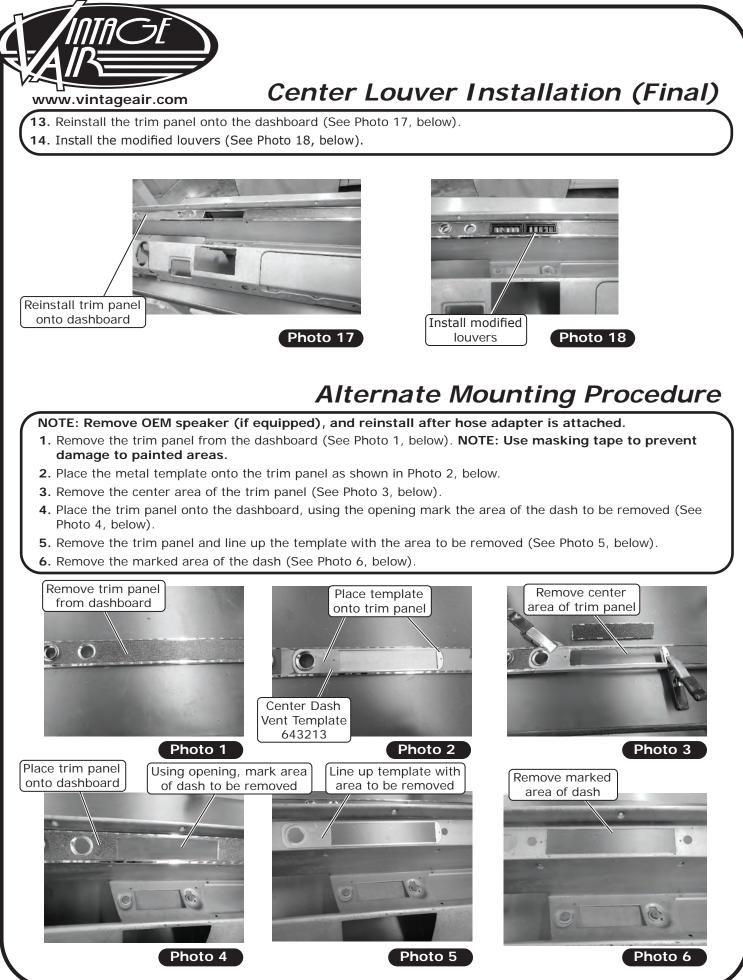


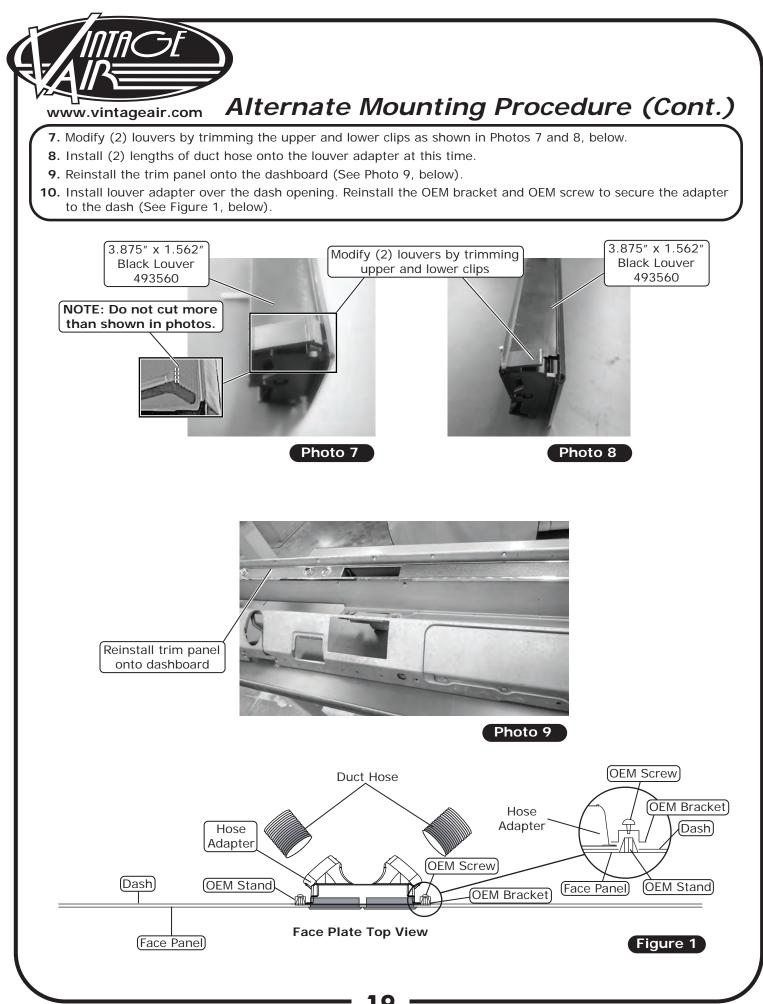
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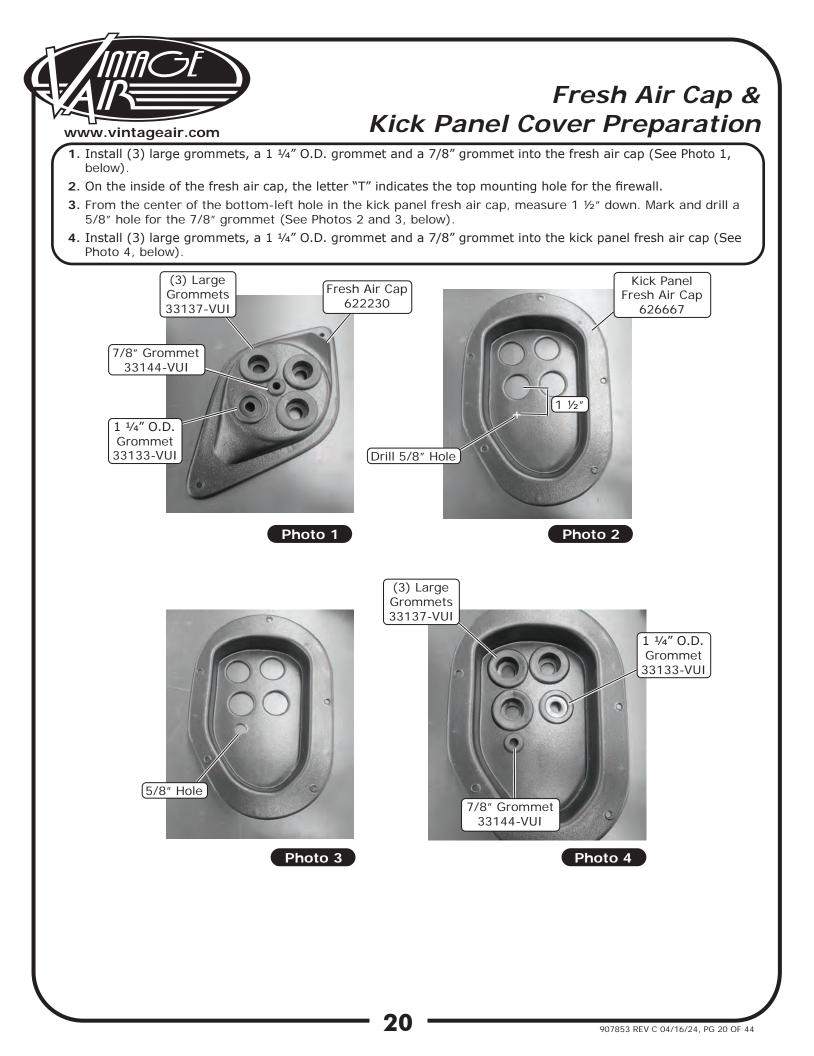
Photo 8

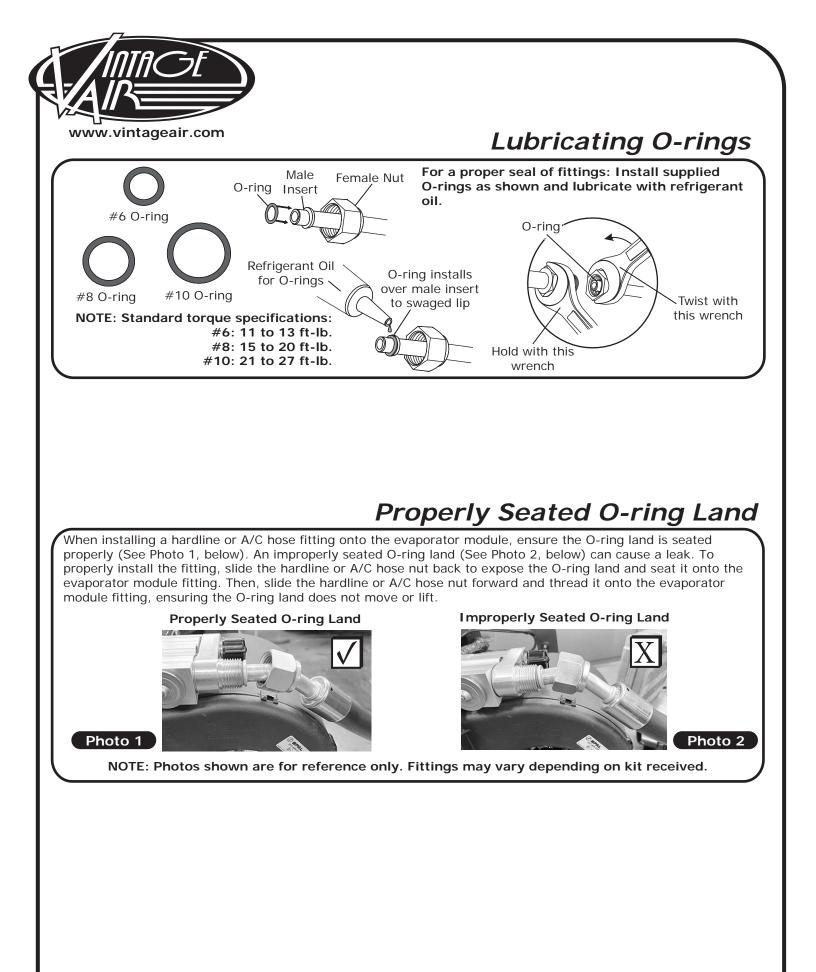
Photo 3









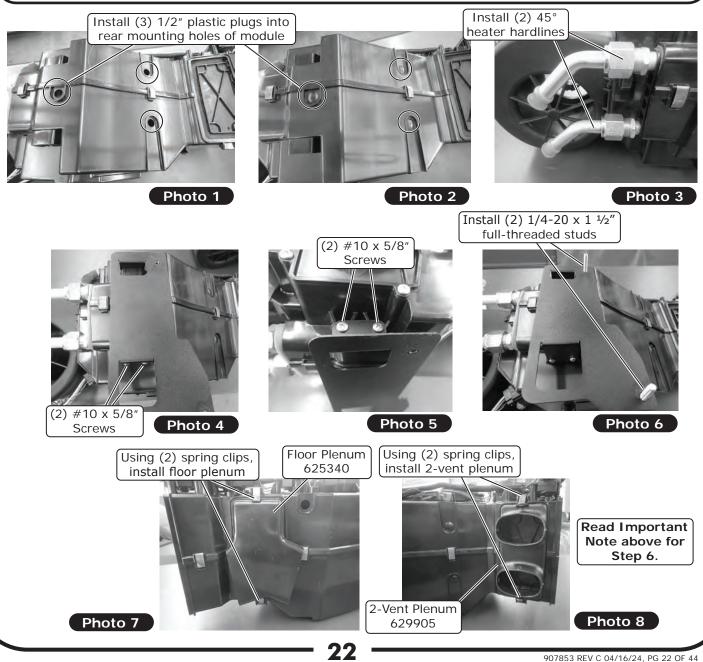


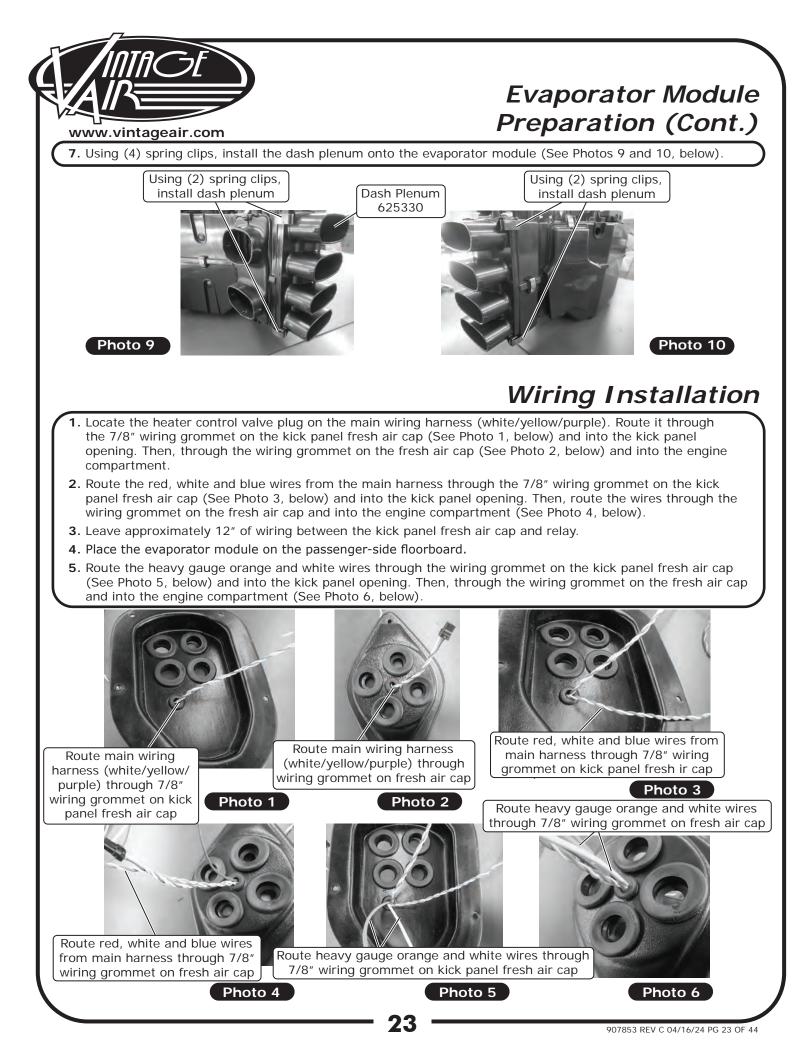


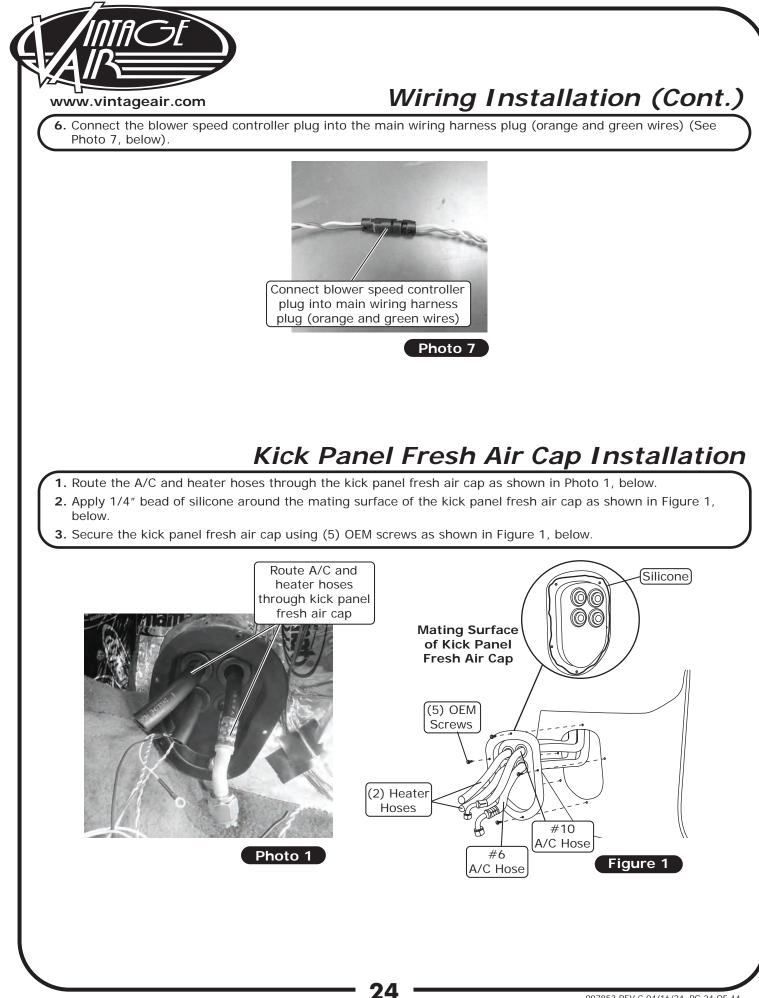
Perform the following on a workbench:

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- **1.** Install (3) 1/2" plastic plugs into the rear mounting holes of the module (See Photos 1 and 2, below). **NOTE: These mounting positions will not be used in this application.**
- Remove the caps and rubber inserts from the heater fittings. With (2) properly lubricated #10 O-rings (See Lubricating O-rings, Page 21), install the (2) 45° heater hardlines (See Photo 3, below).
- Using (4) #10 x 5/8" screws, install the firewall assembly bracket onto the evaporator module (See Photos 4 and 5, below.
- 4. Install (2) 1/4-20 x 1 1/2" full-threaded studs into the evaporator bracket (See Photo 6, below).
- 5. Using (2) spring clips, install the floor plenum onto the front of the evaporator module (See Photo 7, below).
- 6. Using (2) spring clips, install the 2-vent plenum onto the rear of the evaporator module (See Photo 8, below). IMPORTANT NOTE: There will be a tight clearance between the firewall and the 2-vent plenum on the rear of the evaporator module. If the installer is having trouble installing the duct hose onto the plenum once the evaporator module is mounted under the dash, remove the plenum and install the duct hose onto it. Then, reinstall the plenum onto the evaporator module using the spring clips.





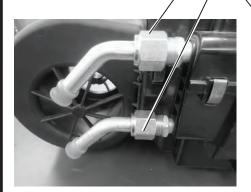


Evaporator Installation

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).
- Using a properly lubricated #6 O-ring (See Lubricating O-rings, Page 21), install the 45° fitting on the #6 drier/evaporator A/C hose onto the block valve adapter on the evaporator module (See Photo 3, below).
 NOTE: Provide enough A/C hose when connecting the 90° fitting to the module. Once the connection is made, pull excess hose into the engine compartment, being sure not to kink it.
- 3. Using a properly lubricated #10 O-ring (See Lubricating O-rings, Page 21), 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 4, below). NOTE: After installing the #10 compressor/evaporator A/C hose, wrap all exposed metal with the supplied press tape (See Photo 5, below).
- **4.** Roll the evaporator module into its mounting position and insert the (2) $1/4-20 \times 1 \frac{1}{2^{"}}$ full-threaded studs into the upper and lower OEM mounting holes on the firewall.

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



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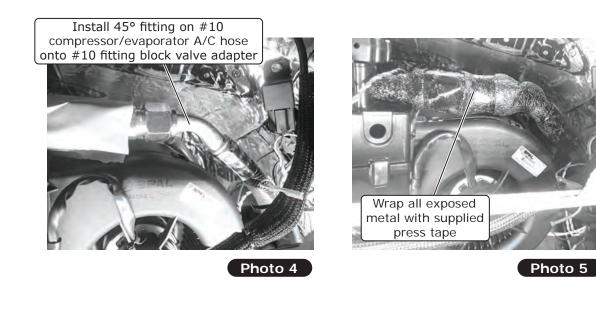
Install 45° fitting on #6 drier/evaporator A/C hose onto block valve adapter



Photo 1

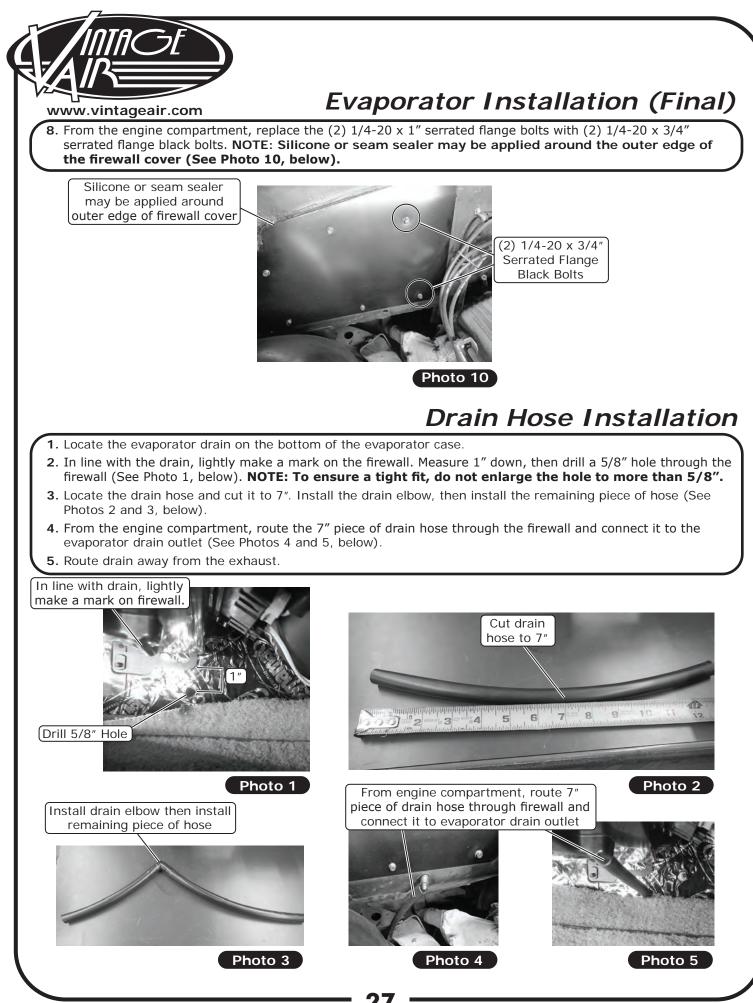


Photo 3



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907853 REV C 04/16/24 PG 27 OF 44

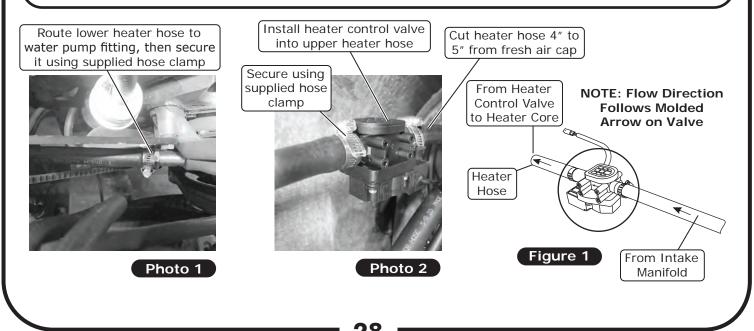
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Fresh Air Cap Installation www.vintageair.com NOTE: Use soapy water on hoses to help ease installation. 1. With wiring and hoses routed into the engine compartment through the fresh air cap grommets, slide the fresh air cap to the firewall and secure it using (2) #14 x 3/4" washer head screws in the OEM screw locations (See Photo 1, below). Apply silicone to the mating area at the firewall. Apply silicone to mating area Upper Heater Hose Secure fresh air cap using (2) #14 x 3/4" washer head screws Lower Heater Hose #10 A/C Hose #6 A/C Hose Photo 1

Heater Hose & 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" \times 5/8" reducer fitting (not supplied) or molded hose will need to be installed in the heater hose.**

- 1. Route the lower heater hose to the water pump fitting, then secure it using the supplied hose clamp (See Photo 1, below).
- Cut the upper heater hose 4 to 5 inches from the fresh air cap and install the heater control valve into the upper heater hose. Secure the heater control valve using the supplied hose clamp (See Photo 2, below).
 NOTE: Ensure proper flow direction through the heater control valve. The flow direction follows the molded arrow on the valve (See Figure 1, below).



WWW.vintageair.com Heater Hose & Heater Control Valve function (Control Valve function) Install another length of heater hose from the heater control valve to the intake and secure it using the supplied hose clamp (See Photo 3, below). Plug the heater control valve connector into the heater control valve connector wiring harness (See Photo 4, below).



Photo 3

Install another length of heater hose from heater control valve to intake and secure using hose clamp





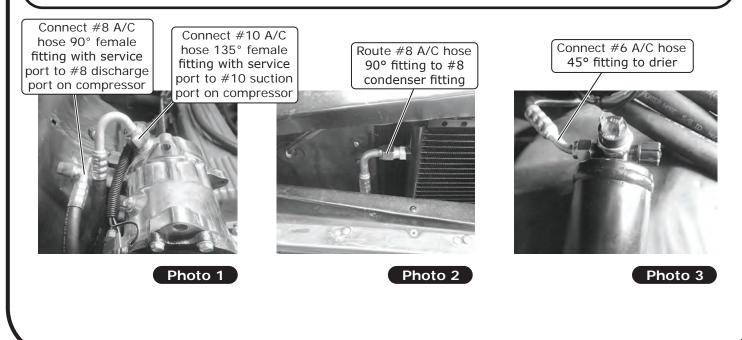
A/C Hose Installation

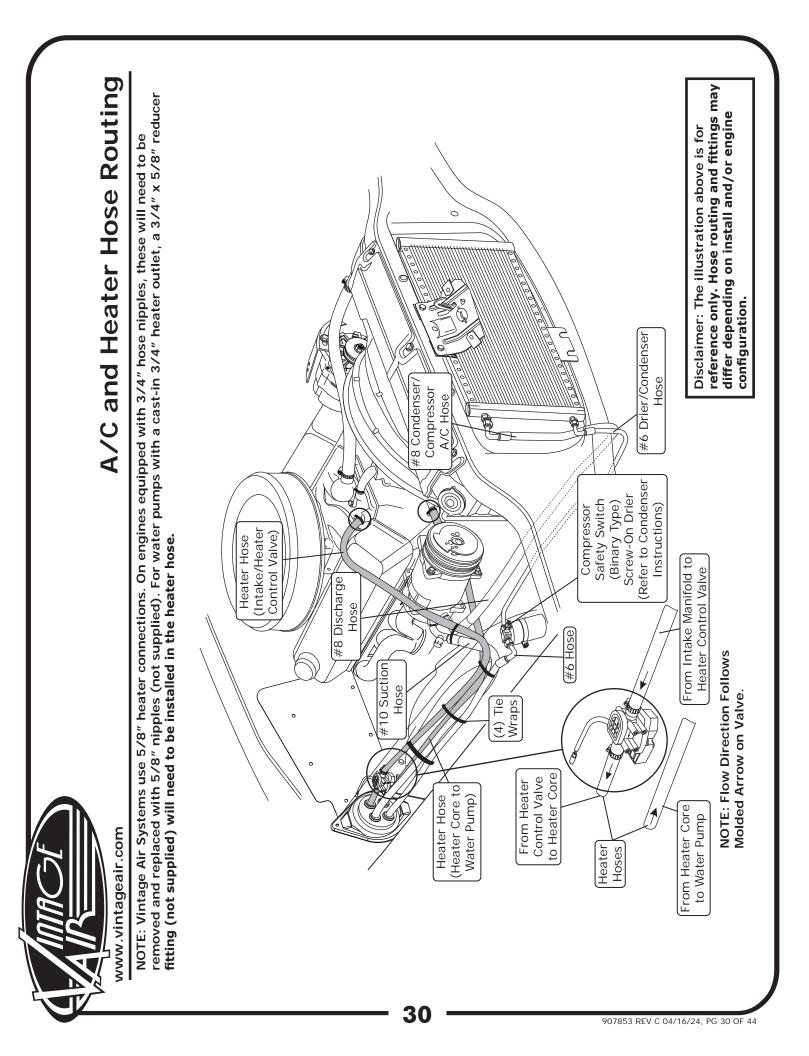
Standard Hose Kit:

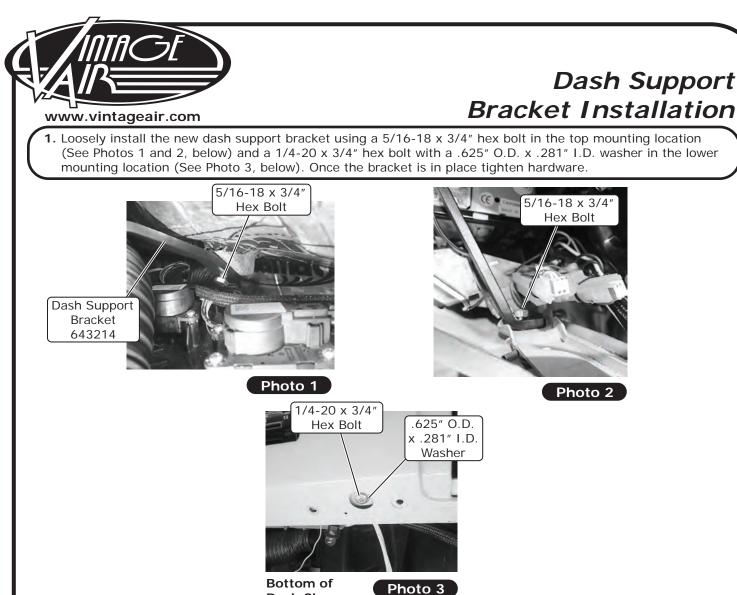
- Locate the #8 compressor A/C hose. Lubricate (2) #8 O-rings (See Lubricating O-rings, Page 21), and connect the 90° female fitting with service port to the #8 discharge port on the compressor (See Photo 1, below). Then, route the 90° fitting to the #8 condenser fitting (See Photo 2, below). Tighten each fitting connection.
- 2. With a properly lubricated #10 O-ring (See Lubricating O-rings, Page 21), connect the #10 135° female fitting with service port to the #10 suction port on the compressor (See Photo 1, below).
- **3.** With a properly lubricated #6 O-ring (See Lubricating O-rings, Page 21), connect the #6 45° fitting to the drier (See Photo 3, below).

Modified Hose Kit:

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



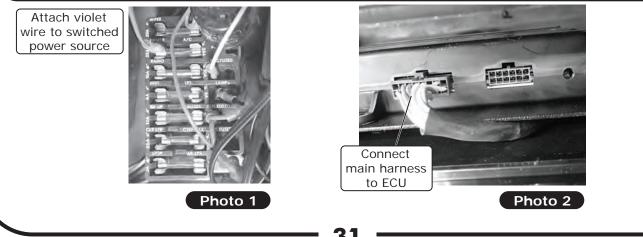




Dash Shown

Wiring Final

- 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 main harness to the ECU (See Photo 2, below).
- 5. Select a suitable mounting location for the main relay.

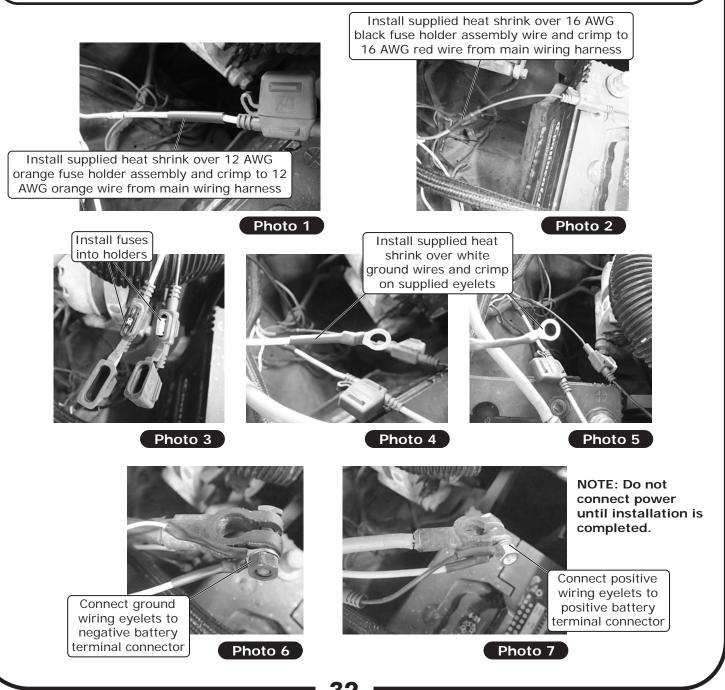


Engine Compartment Wiring

1. Route the power and ground wires toward the battery.

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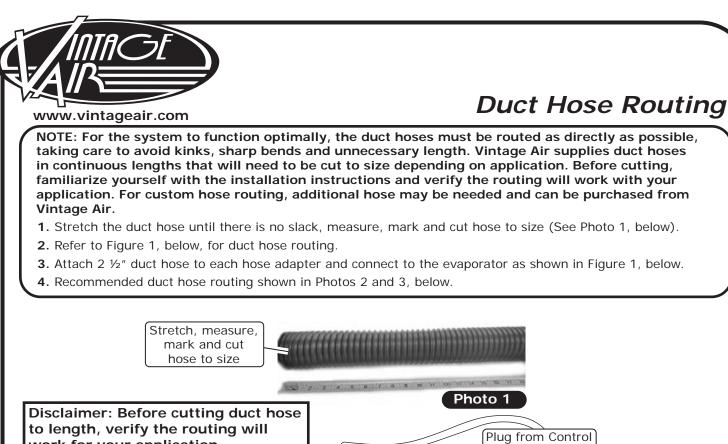
- 2. Install the supplied heat shrink over the 12 AWG orange fuse holder assembly wire, and crimp it to the 12 AWG orange wire from the main wiring harness (See Photo 1, below and Quality Crimp Guidelines, Page 36).
- **3.** Install the supplied heat shrink over the 16 AWG black fuse holder assembly wire, and crimp it to the 16 AWG red wire from the main wiring harness (See Photo 2, below and Quality Crimp Guidelines, Page 36).
- 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 36)
- 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.

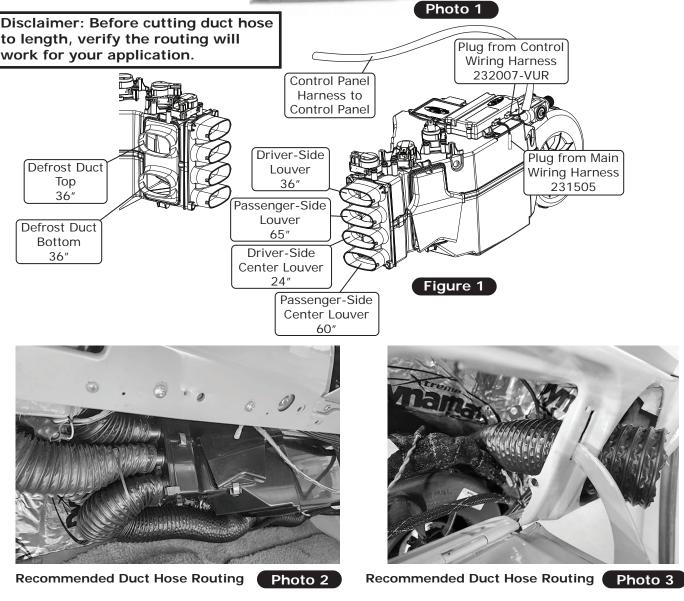




Final Steps: Installation Check

		Installation Check
ITE	ITEM TO CHECK	Procedure
	ECU	If no blinking is observed after 1 minute of turning the ignition on, go to the next check. If repetetive blinking is observed, go to the <u>Advanced Diagnostics</u> Section to diagnose.
	Blower speed control	Set the blower speed control to OFF , <i>confirm that the blower is off</i> . Blower speed control 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. <i>Confirm that air is being blown at the dash vents.</i> Set the MODE control to the FLOOR position. <i>Confirm that air is being blown at the floor vents.</i> Set the MODE control to the DEFROST position. <i>Confirm that all air is being blown from the defrost vents</i>
	Temperature control	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</u> air is coming from the dash vents. If system is charged: Set the TEMP control to the MAX COOL position. Confirm that COLD air is coming from the dash vents.
		Also confirm that the compressor "clicks" on 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, <i>confirm that the blue AC Indicator light is on</i> .
	Backlight (If applicable)	lf your control panel has backlight capabilities and has been wired, turn the dash lamp on and <u>confirm that the AC</u> panel's legend is lit .
	Fittings	Verify AC and Heater fittings are all tight.

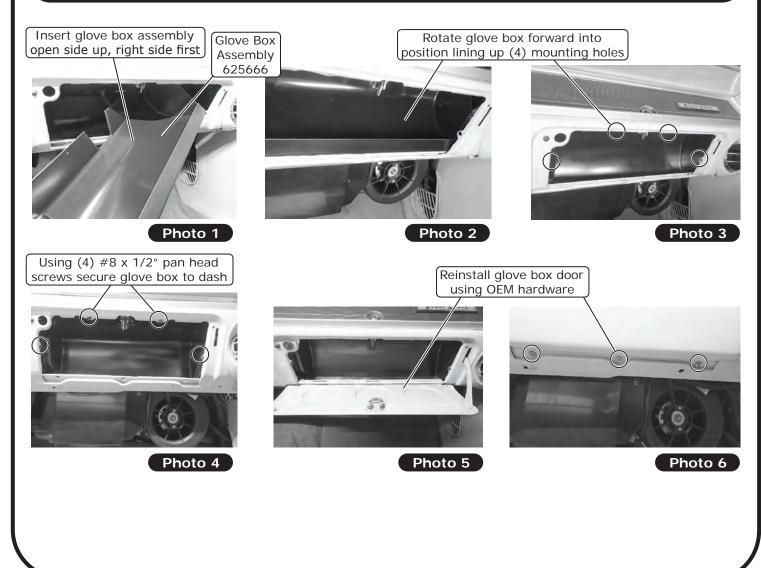


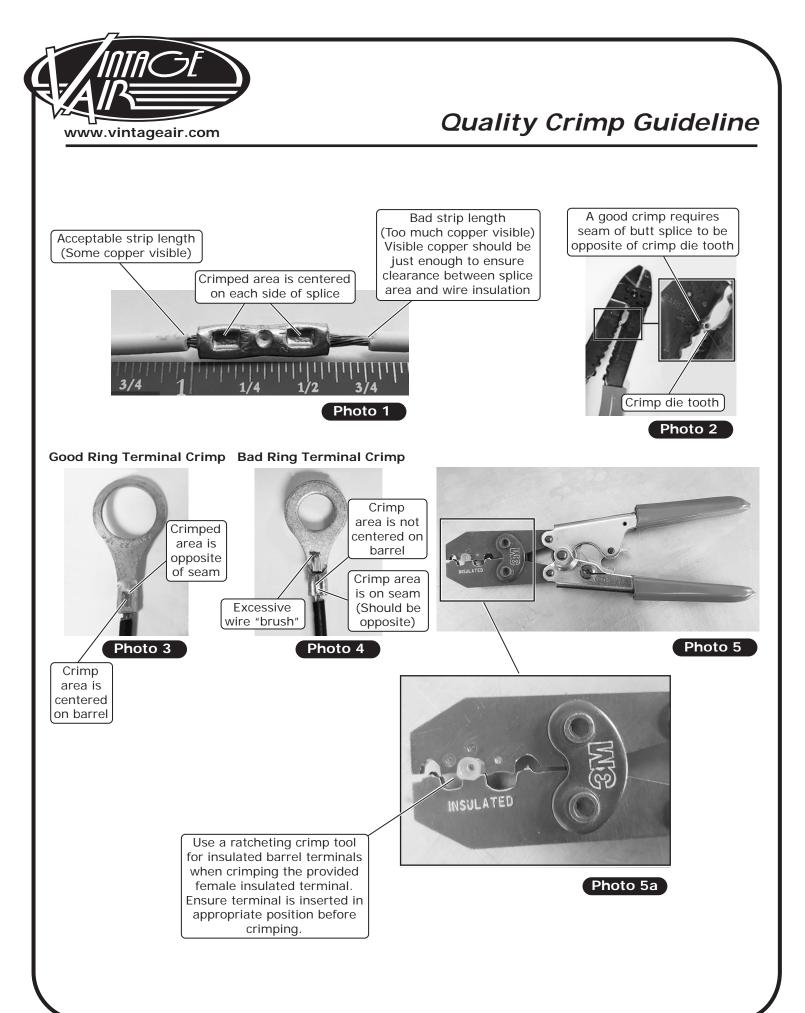




Final Steps: Completing the Install

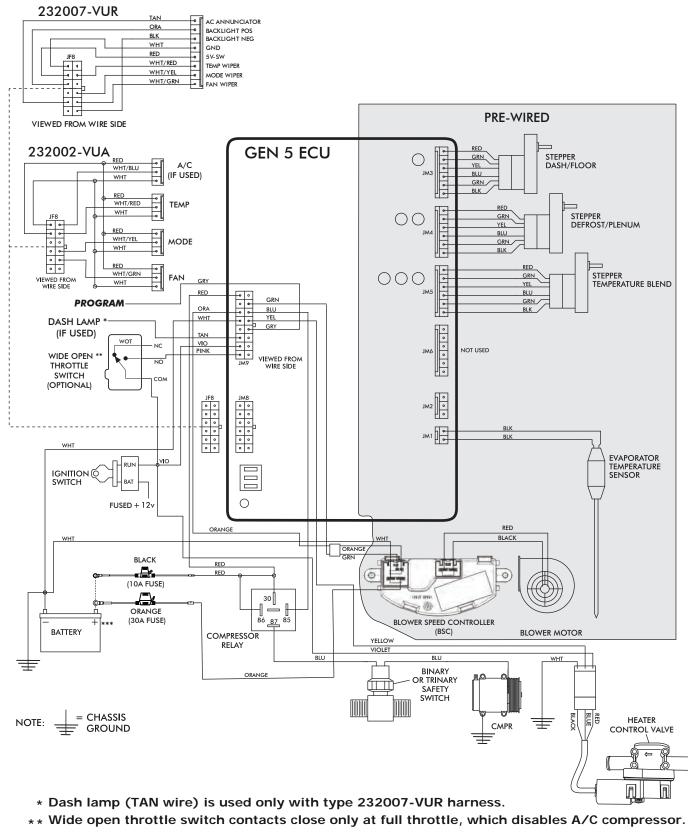
- **1.** Install duct hoses as shown in Figure 1, Page 34.
- 2. Install the control panel assembly. Refer to the control panel instructions.
- **3.** Insert new glove box assembly open side up, right side first (See Photo 1, below). Rotate the glove box assembly forward into position lining up the (4) mounting holes (See Photos 2 and 3, below).
- 4. Using (4) #8 x 1/2" pan head screws, secure the glove box to the dash (See Photo 4, below).
- 5. Reinstall glove box door using OEM hardware (See Photos 5 and 6, below).
- 6. Reinstall all previously removed items (battery tray, battery, and inner fender).
- 7. 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.
- 8. Double check all fittings, brackets and belts for tightness.
- 9. Vintage Air recommends that all A/C systems be serviced by a licensed automotive A/C technician.
- **10.** Evacuate the system for a minimum of 45 minutes prior to charging, and perform a leak check prior to servicing.
- **11.** Charge the system to the capacities stated on Page 4 of this instruction manual.
- 12. See Operation of Controls procedures on Page 39.



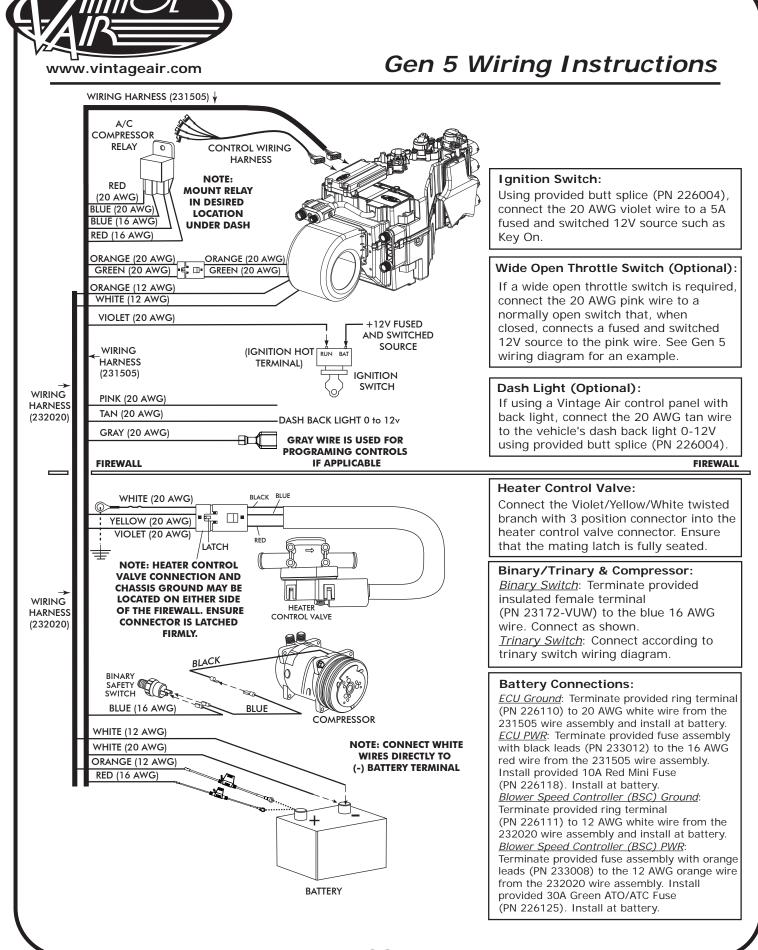




Gen 5 Wiring Diagram



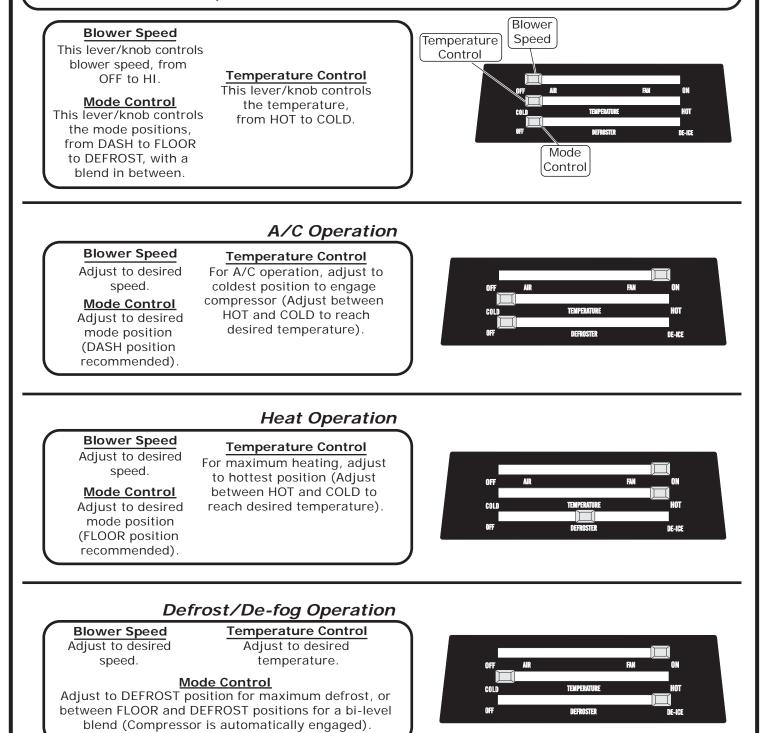
*** Install fuse assemblies at or as near to the battery as possible.





Operation of Controls

On 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 control panel instructions for calibration procedure.**



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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.

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

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Symptom	Condition	Checks	Actions	Notes
4	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
System will not turn on, or runs intermittently.		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.	greater than 16V will shut down the ECU. Install a radio capacitor at the positive post of the ignition
	any conditions.	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.	installation bulletin). A faulty alternator or worn out battery can also result in this condition.
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. Battery voltage is less than 12V.	Check for at least 12V at circuit breaker.	 Ensure all system grounds and power connections are clean and tight. Charge battery. 	System shuts off blower at 10V. Poor connections or weak battery can cause → shutdown at up to 11V.
7. Erratic functions of blower, mode, temp, etc.	s of	Check for damaged switch or pot and associated wiring.	Repair or replace.	
	A	Advanced Diag	Diagnostics and Troubleshooting Guide	ting Guide
If after refere resolved, mo Guide that co	If after referencing the Troubleshooting Guide, the issue is not resolved, move to The Advanced Diagnostics and Troubleshoot Guide that covers the following:	If after referencing the Troubleshooting Guide, the issue is not resolved, move to The Advanced Diagnostics and Troubleshooting Guide that covers the following:	Access the latest version of the Advanced Diagnostics and Troubleshooting Guide by scanning the following QR code on your mobile device:	nostics and ig QR code on your
ECU Diagent Control 1. ECU Black 1. ECU Black 2. Firmww 3. ECU Mu 4. ECU Start 1. EU Start 2. EU	ECU Diagnostics Codes 1. ECU Blink Sequence 2. Firmware Version Number 3. ECU Model Number 4. ECU Start-Up Blink Sequence			
Complet	or bragnostic codes Complete Advanced Troubleshooting Guideli	oting Guidelines	You can also access the guide by typing the following address into your web browser: https://www.vintageair.com/instructions_pdf/905000.pdf	owing address into 05000.ndf

41

