

1966-67 Chevrolet Chevelle

with Factory Air Gen 5 Evaporator Kit (564273)

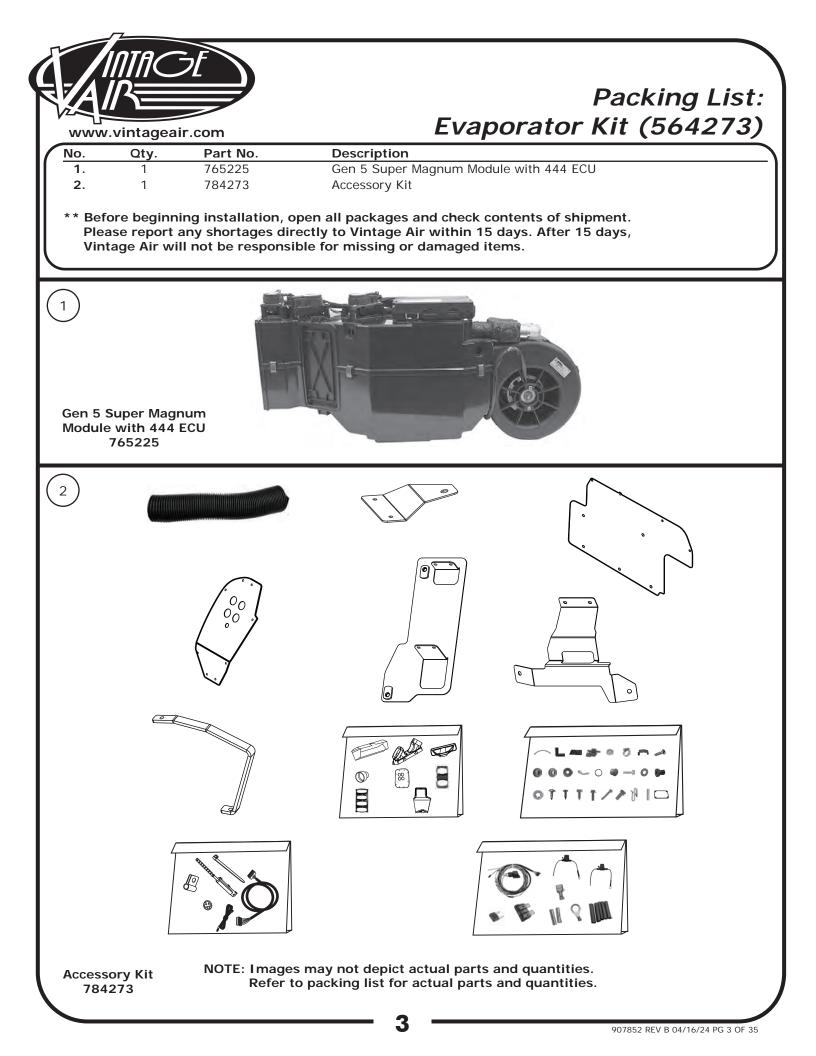


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Important Notice—Please Read

For Maximum System Performance, Vintage Air Recommends the Following:

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

Refrigerant Capacities:

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

Other Systems: Consult manufacturer's guidelines.

Lubricant Capacities:

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

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

Safety Switches

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

Service Info:

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

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

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

Bolts Passing Through Cowl and/or Firewall:

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

Heater Hose (not included with this kit):

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



Important Wiring Notice—Please Read

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

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

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

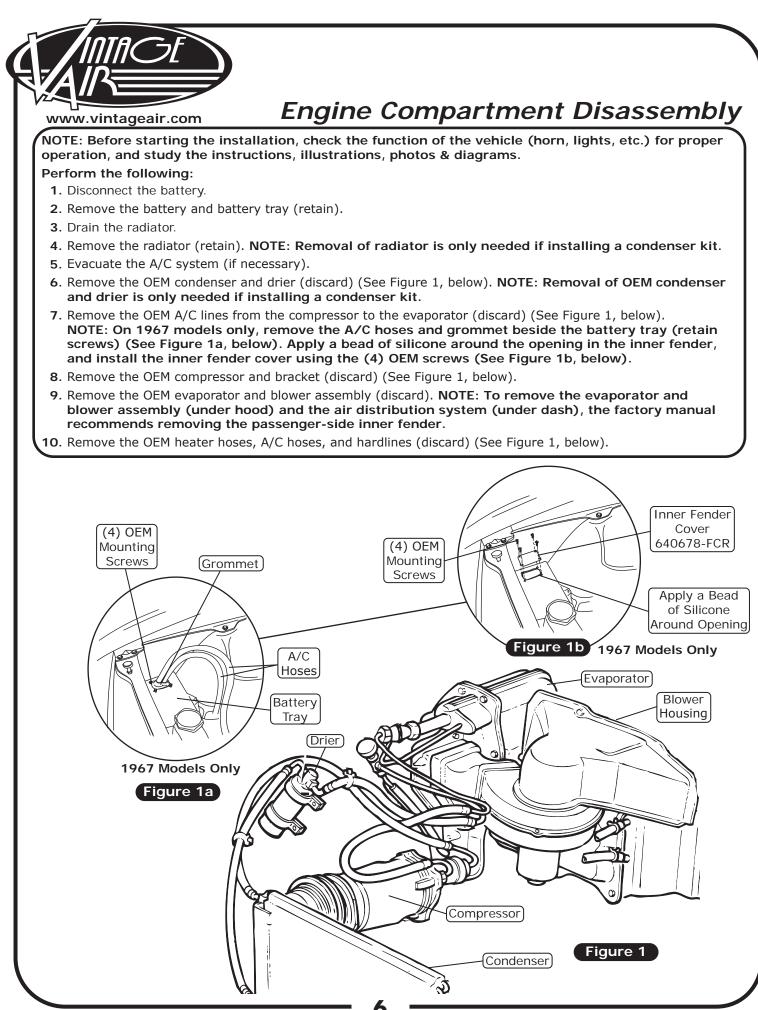
It is also important that the battery lead is in good shape and that the ground leads are not compromised. There should be a heavy ground from the battery to the engine block, and additional grounds to the body and chassis.

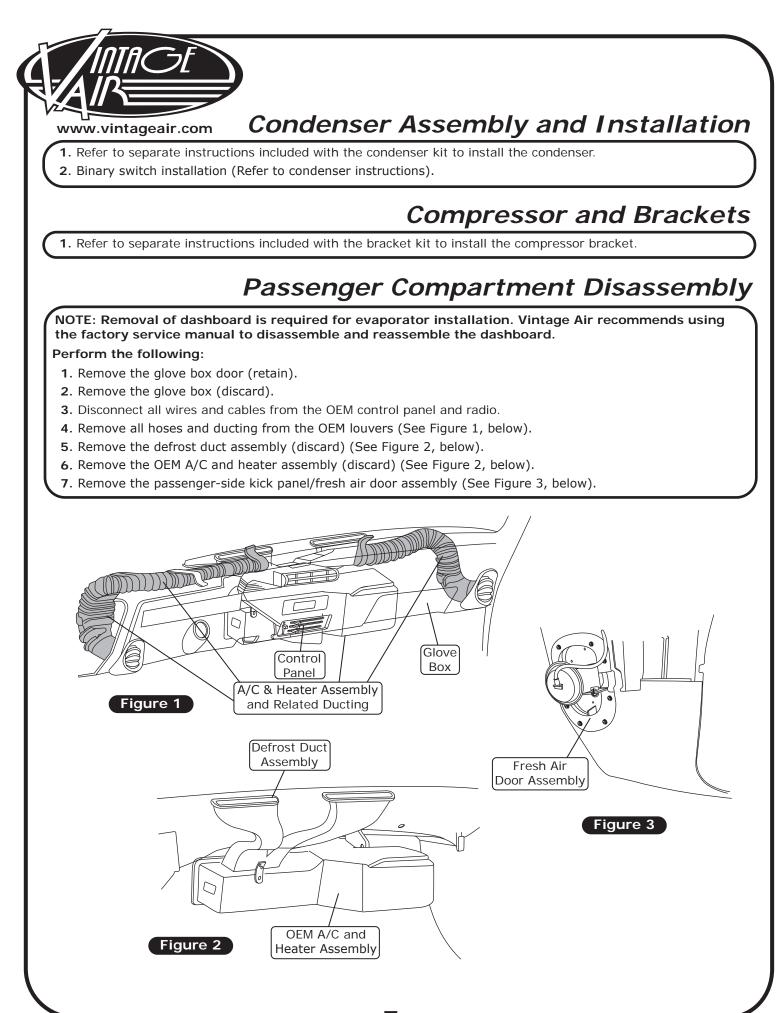
If these precautions are not observed, it is possible for voltage spikes to be present on the battery leads. These spikes come from ignition systems and charging systems, and from switching some of the vehicle's other systems on and off. Modern computer-operated equipment can be sensitive to voltage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

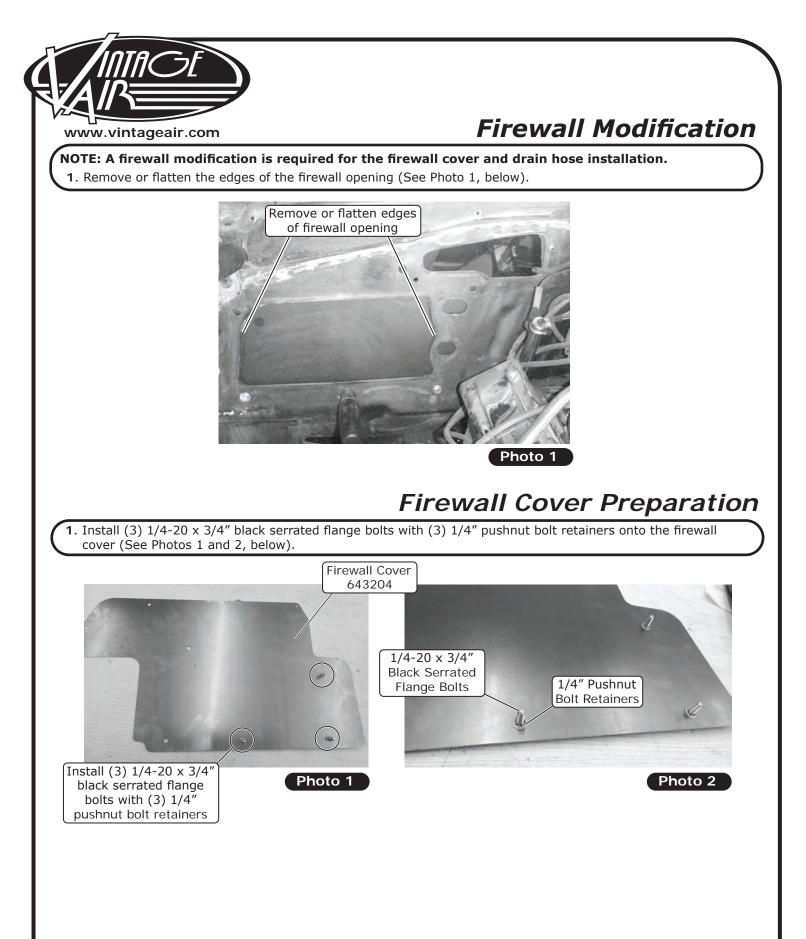
Vintage Air strives to harden our products against these types of electrical noise, but there is a point where a vehicle's electrical system can be degraded so much that nothing can help.

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

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





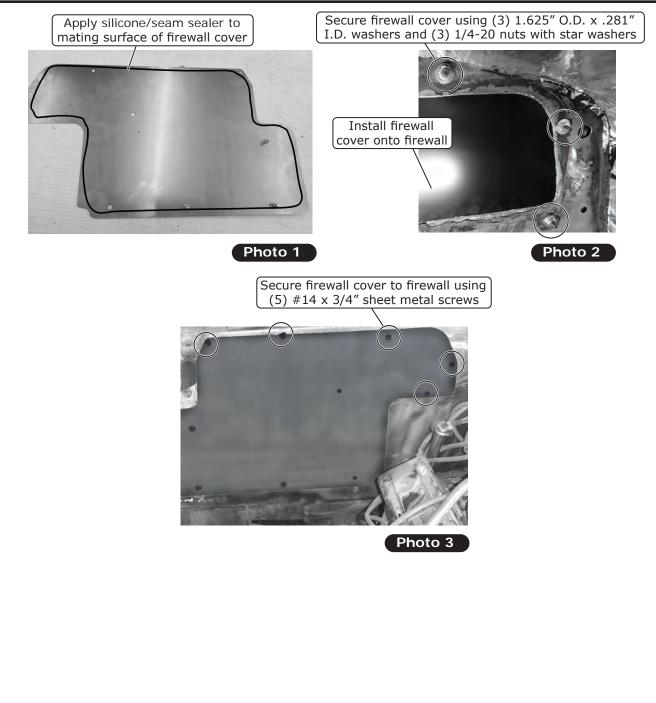


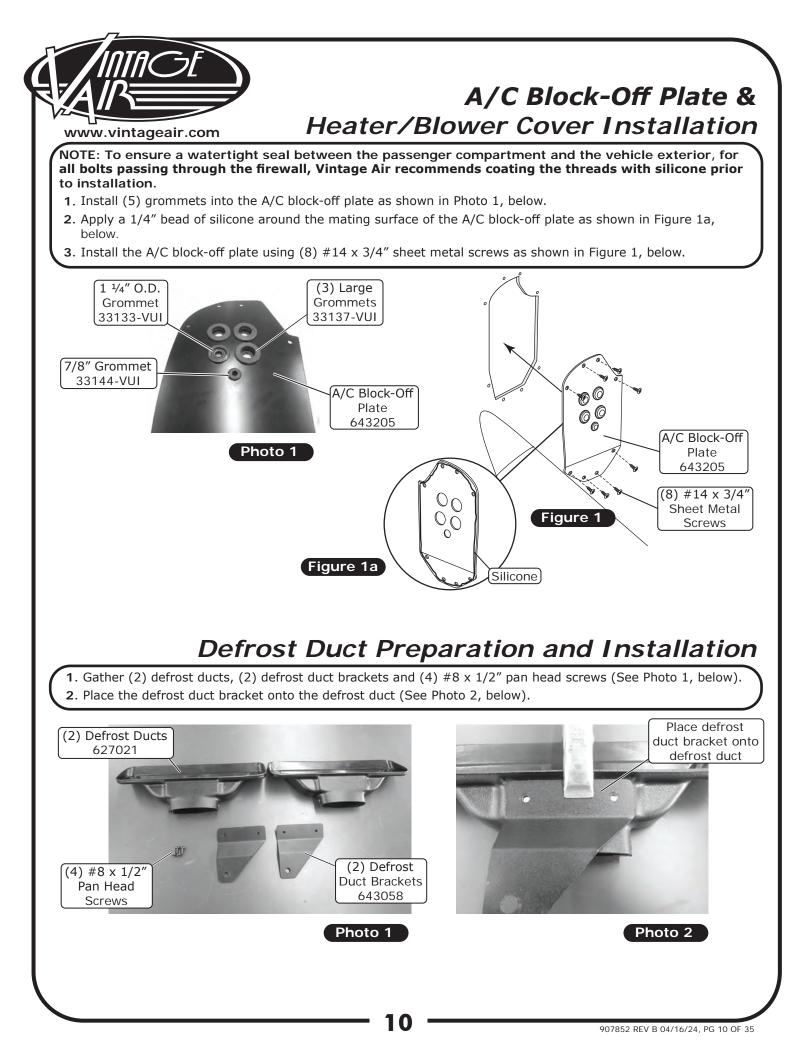


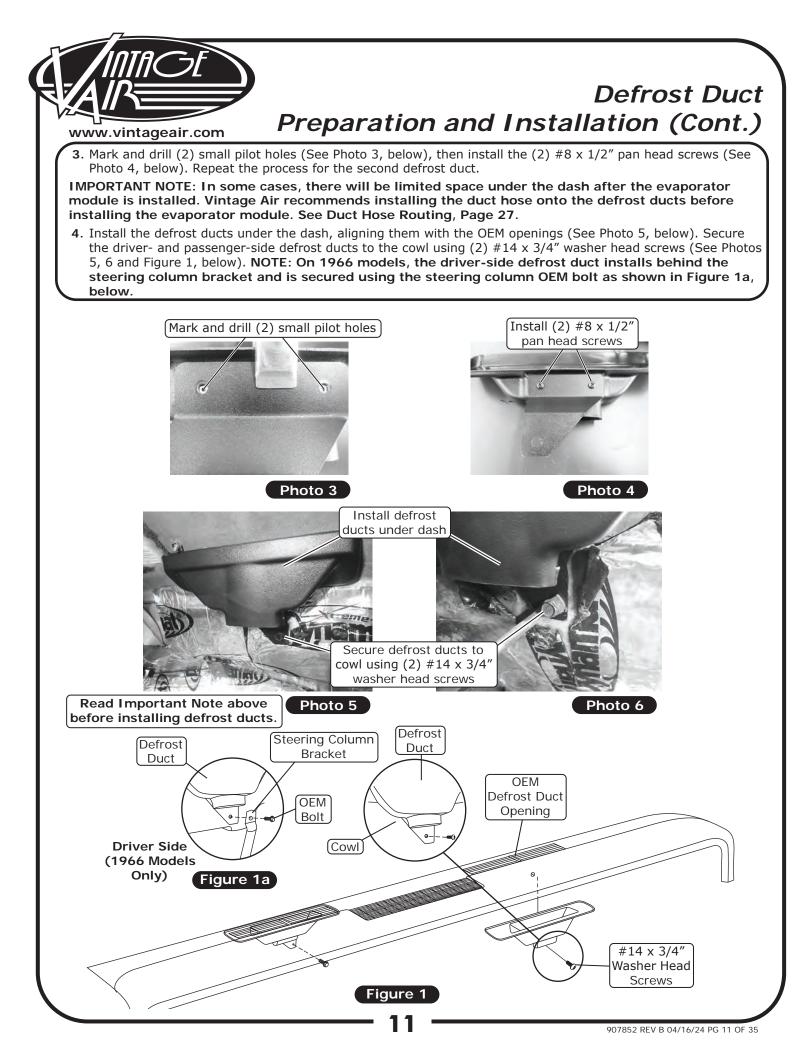
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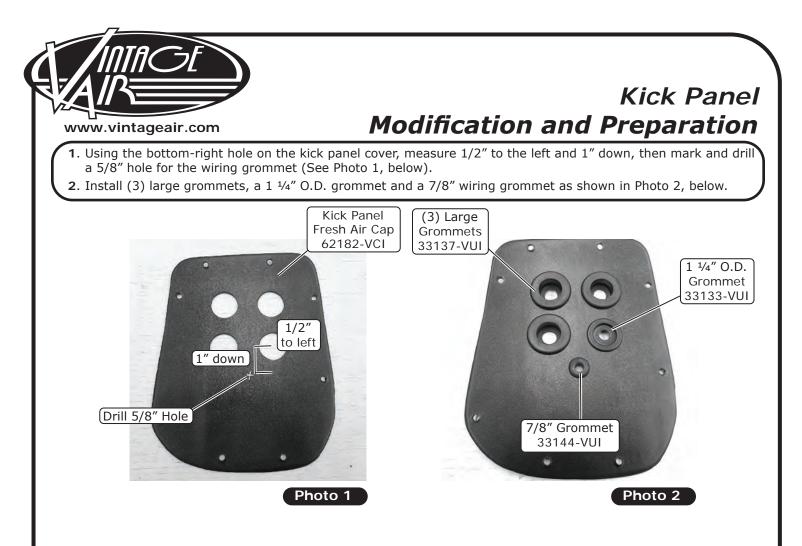
NOTE: For proper system operation, Vintage Air recommends using Dynaliner (461500-VIP) heatblocking insulation in the area around the evaporator module (firewall, kick panel, inner cowl and firewall covers). Due to tight clearance for the evaporator module, between the firewall and dash, Vintage Air recommends an insulation thickness of no more than 1/8".

- 1. Apply silicone/seam sealer to the mating surface of the firewall cover (See Photo 1, below).
- Install the firewall cover onto the firewall, then from the passenger compartment, secure it using (3) 1.625" O.D. x .281" I.D. washers and (3) 1/4-20 nuts with star washers (See Photo 2, below).
- **3.** From the engine compartment, secure the firewall cover to the firewall using (5) $#14 \times 3/4''$ sheet metal screws.



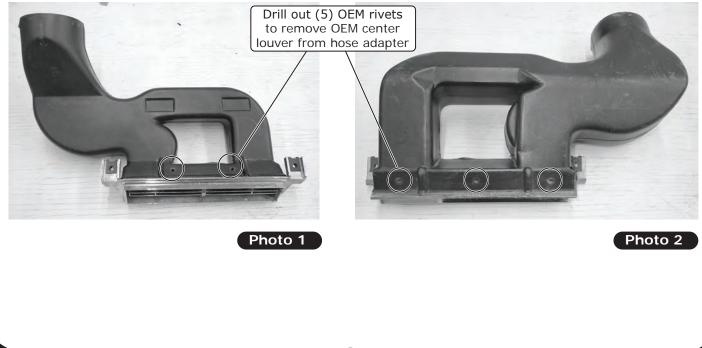


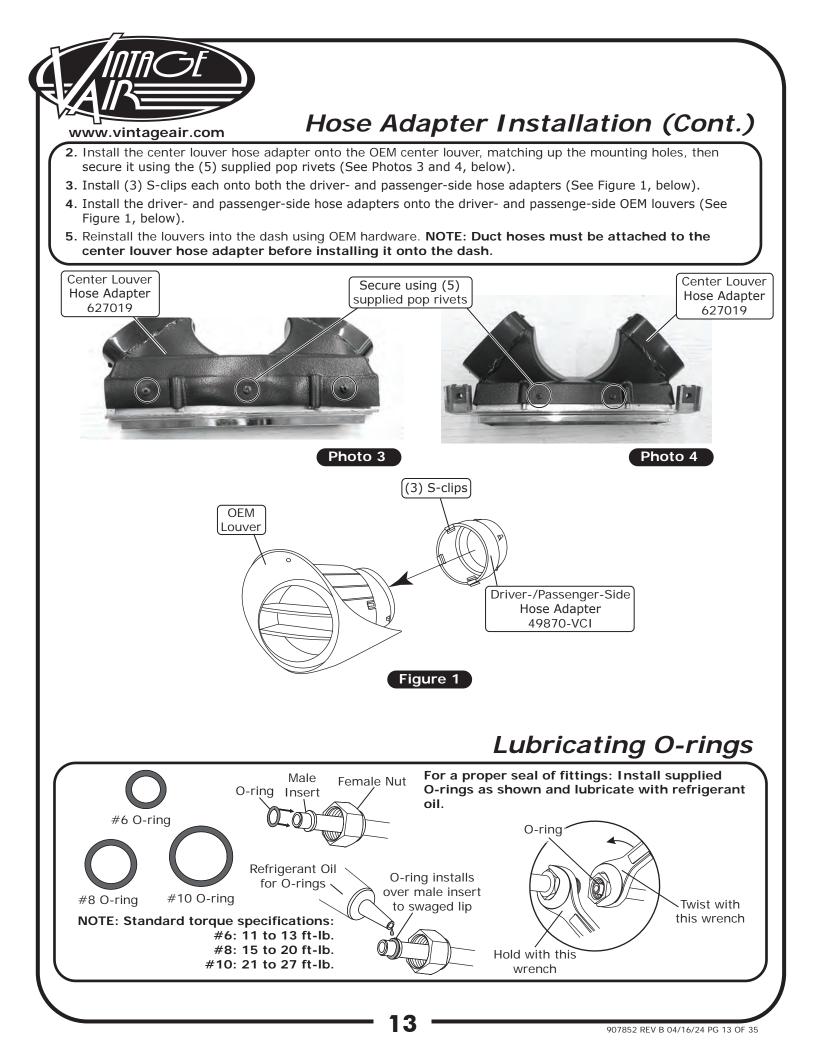




Hose Adapter Installation

 Using a #30 drill-bit, drill out the (5) OEM rivets to remove the OEM center louver from the hose adapter (See Photos 1 and 2, below).

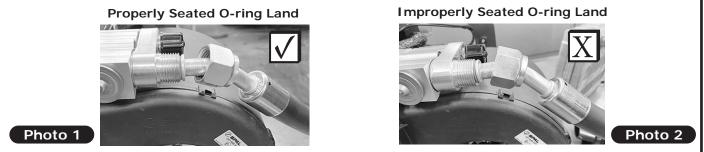






Properly Seated O-ring Land

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.

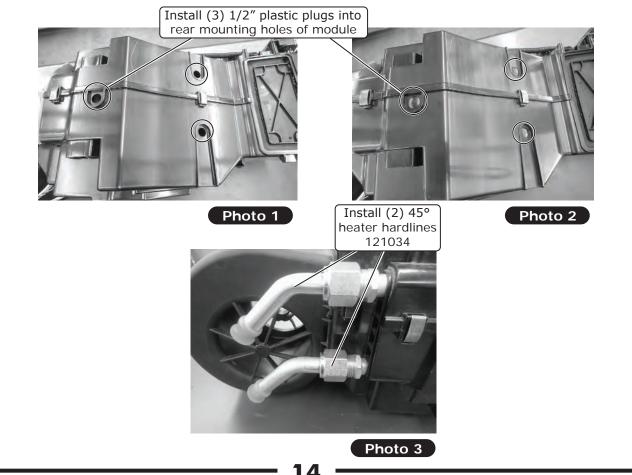


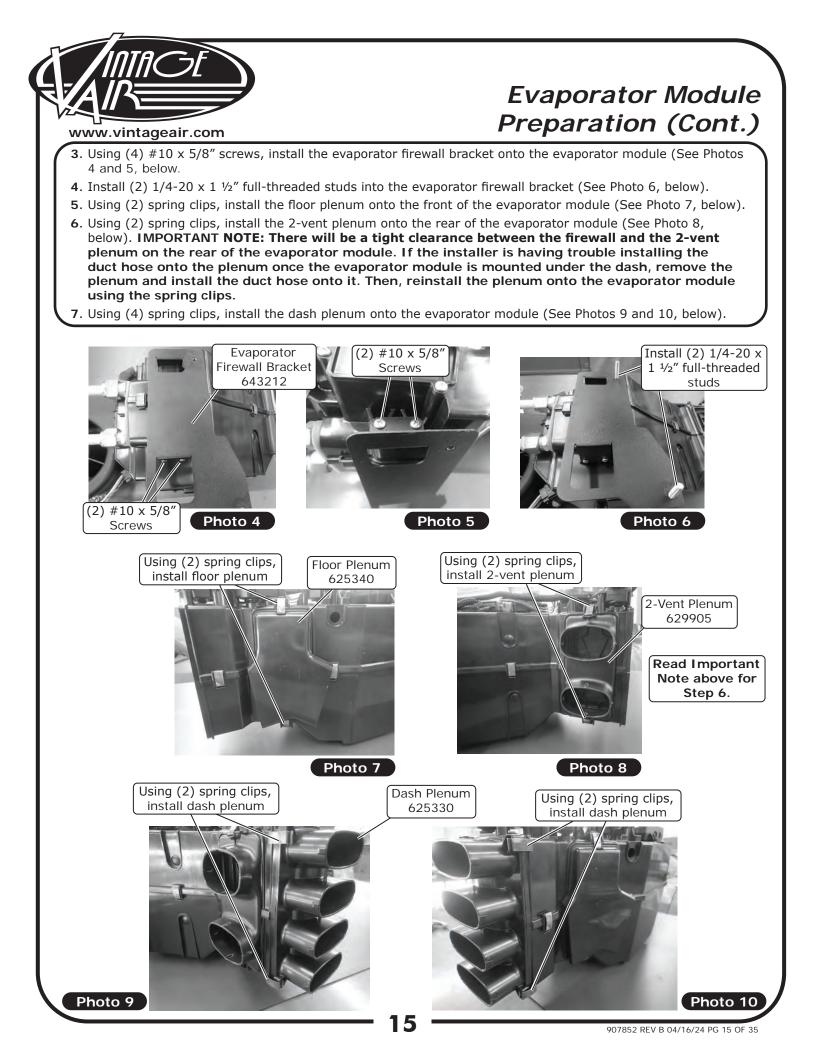
NOTE: Photos shown are for reference only. Fittings may vary depending on kit received.

Evaporator Module Preparation

Perform the following on a workbench:

- 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 13), install the (2) 45° heater hardlines (See Photo 3, below).

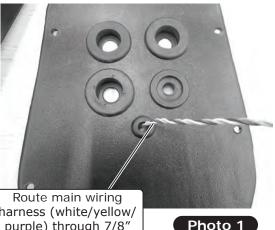




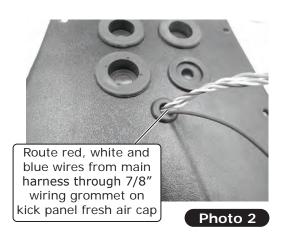


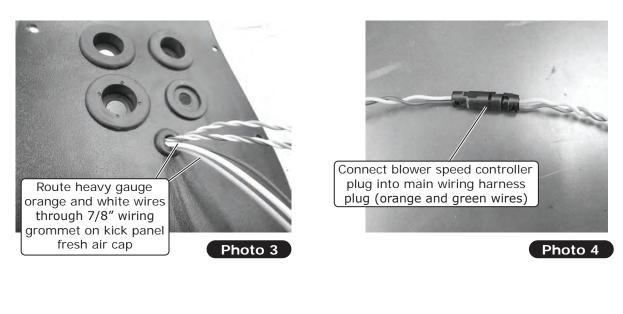
Wiring Installation

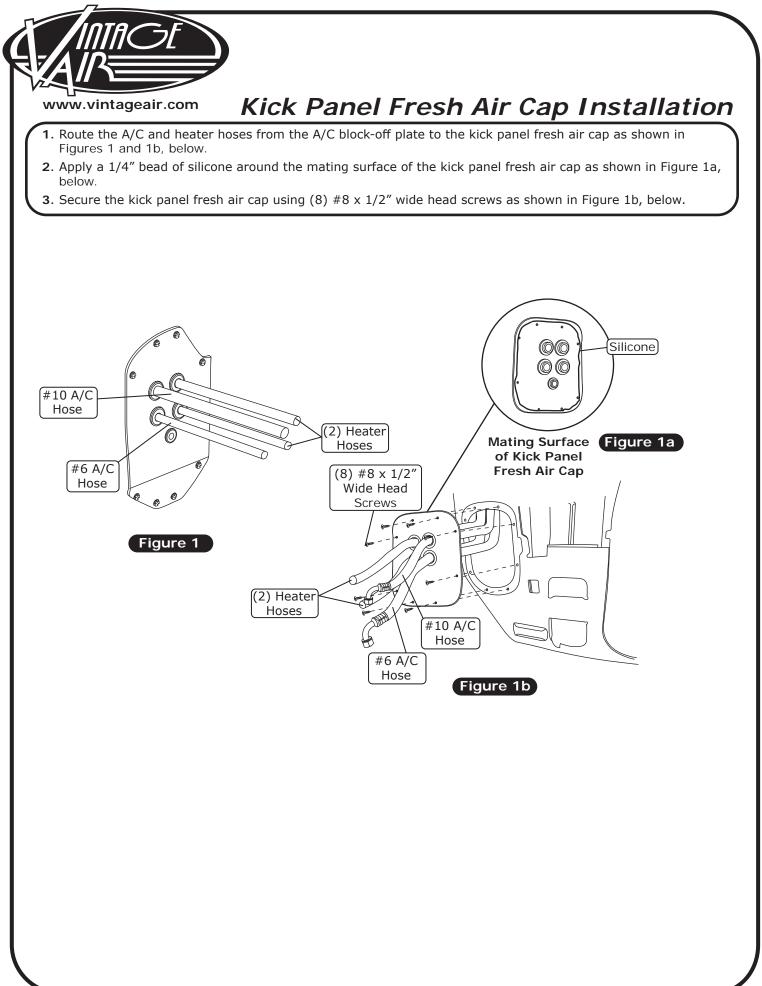
- Locate the heater control valve plug on the main wiring harness (white/yellow/purple). Route it through the 7/8" wiring grommet on the kick panel fresh air cap (See Photo 1, below) and into the kick panel opening. Then, through the wiring grommet on the A/C block off plate and into the engine compartment.
- 2. Route the red, white and blue wires from the main harness through the 7/8" wiring grommet on the kick panel fresh air cap (See Photo 2, below) and into the kick panel opening. Then, route the wires through the wiring grommet on the A/C block-off plate and into the engine compartment.
- 3. Leave approximately 12" of wiring between the kick panel cover 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 on the kick panel fresh air cap (See Photo 3, below) and into the kick panel opening. Then, through the wiring grommet on the A/C block-off plate and into the engine compartment.
- **6**. Connect the blower speed controller plug into the main wiring harness plug (orange and green wires) (See Photo 4, below).



harness (white/yellow/ purple) through 7/8" wiring grommet on kick panel fresh air cap







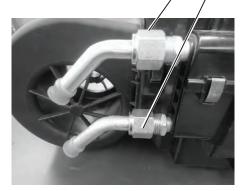


Evaporator Installation

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. Using a properly lubricated #6 O-ring (See Lubricating O-rings, Page 13), 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 13), 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





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



Photo 1



Photo 3

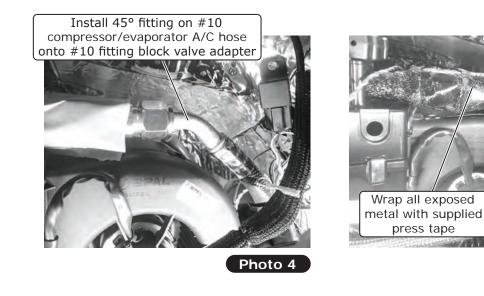


Photo 5



Evaporator Installation (Cont.)

5. Install (2) 1/4-20 well nuts into the front mounting holes on the evaporator module (See Photo 6, below).

- 6. Using (2) 1/4-20 x 1" serrated flange bolts, install the evaporator cowl bracket onto the evaporator module (See Photo 7, below). NOTE: To ensure proper drainage, it is very important that the evaporator module is level, both left-right and fore-aft. Check for level on the flat portions of the case around the drain.
- 7. Once the module is in position and level, use the bracket as a template to mark and drill (2) pilot holes. Secure the evaporator cowl bracket to the cowl using (2) $#14 \times 3/4"$ washer head screws (See Photos 8 and 9, below).





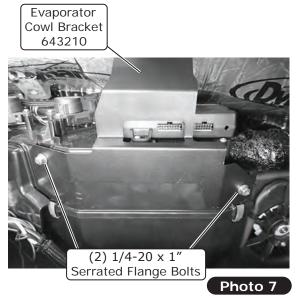
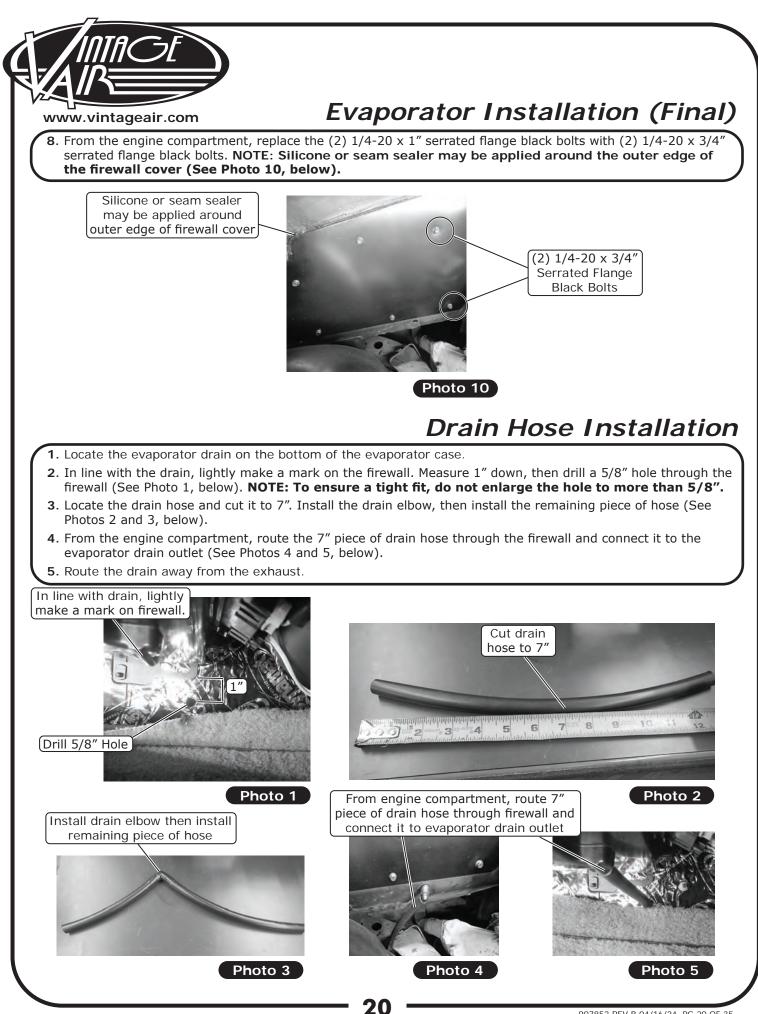




Photo 9



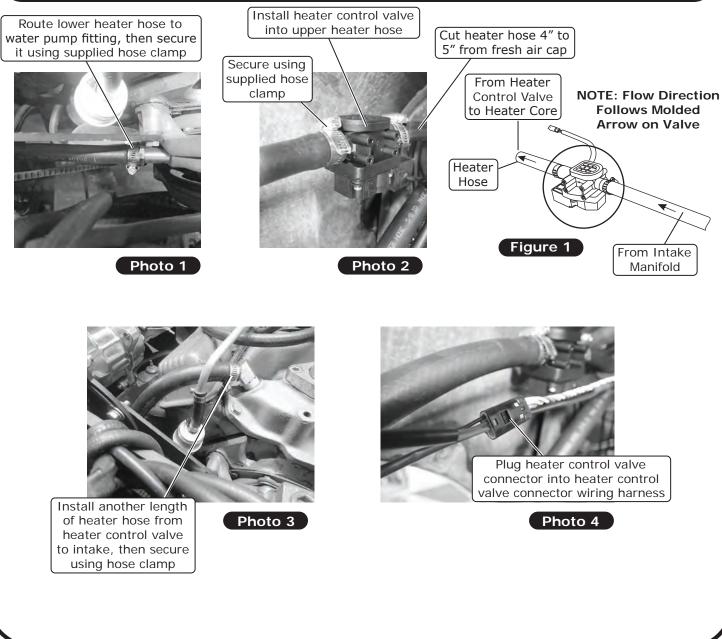
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Heater Hose & Heater Control Valve Installation

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).
- 2. 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).
- **3.** Install another length of heater hose from the heater control valve to the intake, then secure it using the supplied hose clamp (See Photo 3, below).
- **4**. Plug the heater control valve connector into the heater control valve connector wiring harness (See Photo 4, below).





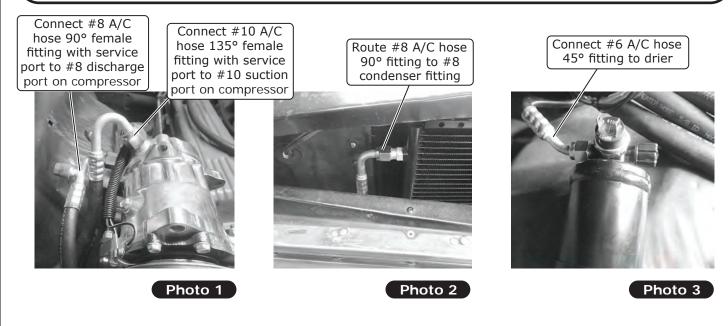
A/C Hose Installation

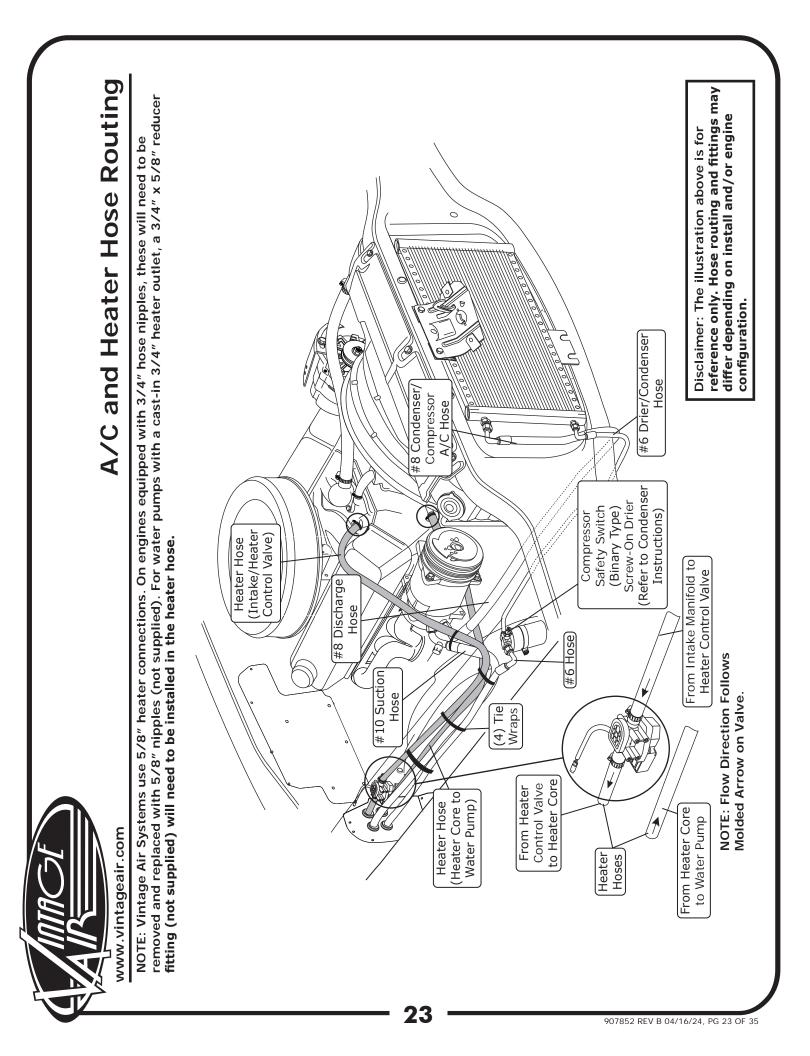
Standard Hose Kit:

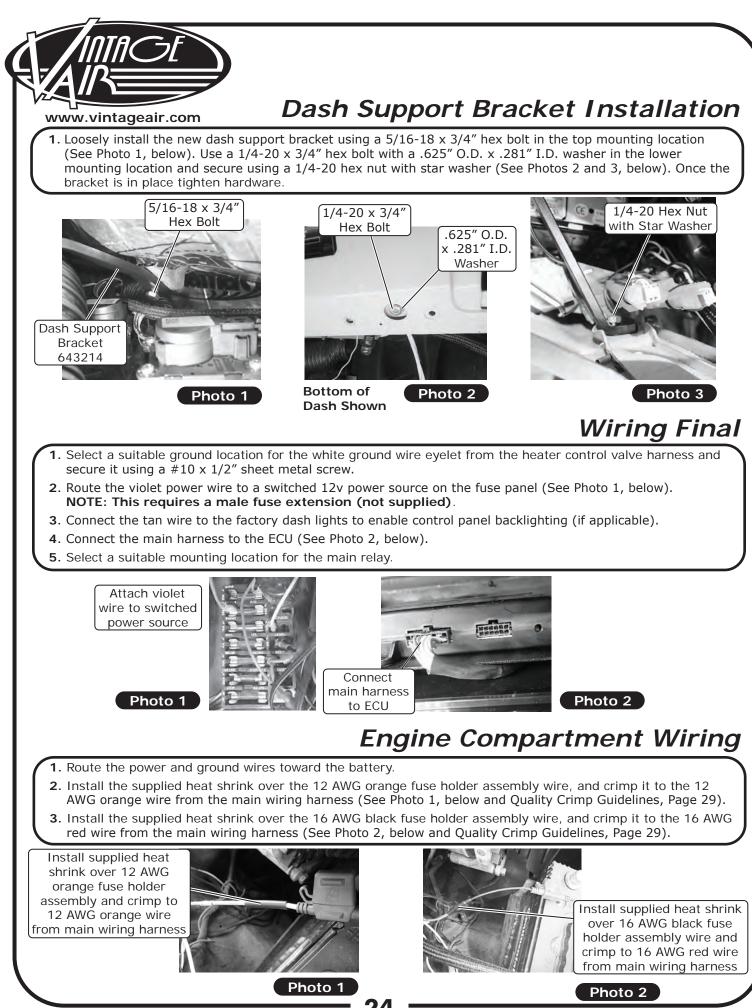
- Locate the #8 compressor A/C hose. Lubricate (2) #8 O-rings (See Lubricating O-rings, Page 13), and connect the 90° female fitting with service port to the #8 discharge port on the compressor (See Photo 1, below). Then, route the 90° fitting to the #8 condenser fitting (See Photo 2, below). Tighten each fitting connection.
- 2. With a properly lubricated #10 O-ring (See Lubricating O-rings, Page 13), 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 13), connect the #6 45° fitting to the drier (See Photo 3, below).

Modified Hose Kit:

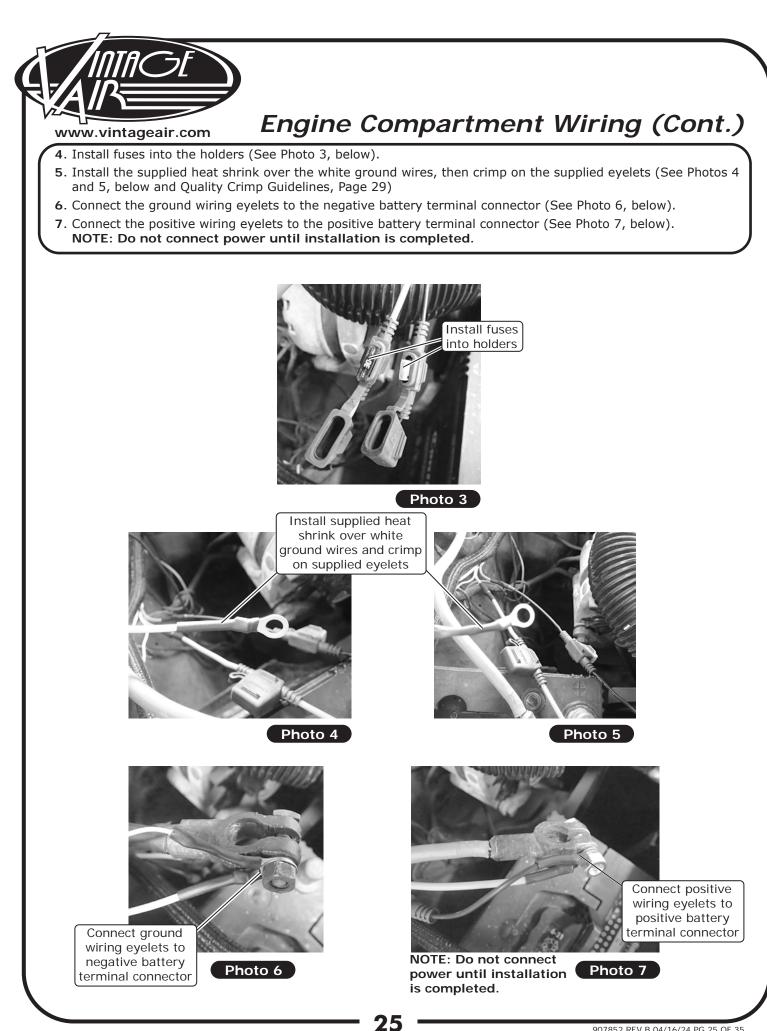
1. Refer to separate instructions included with modified hose kit.







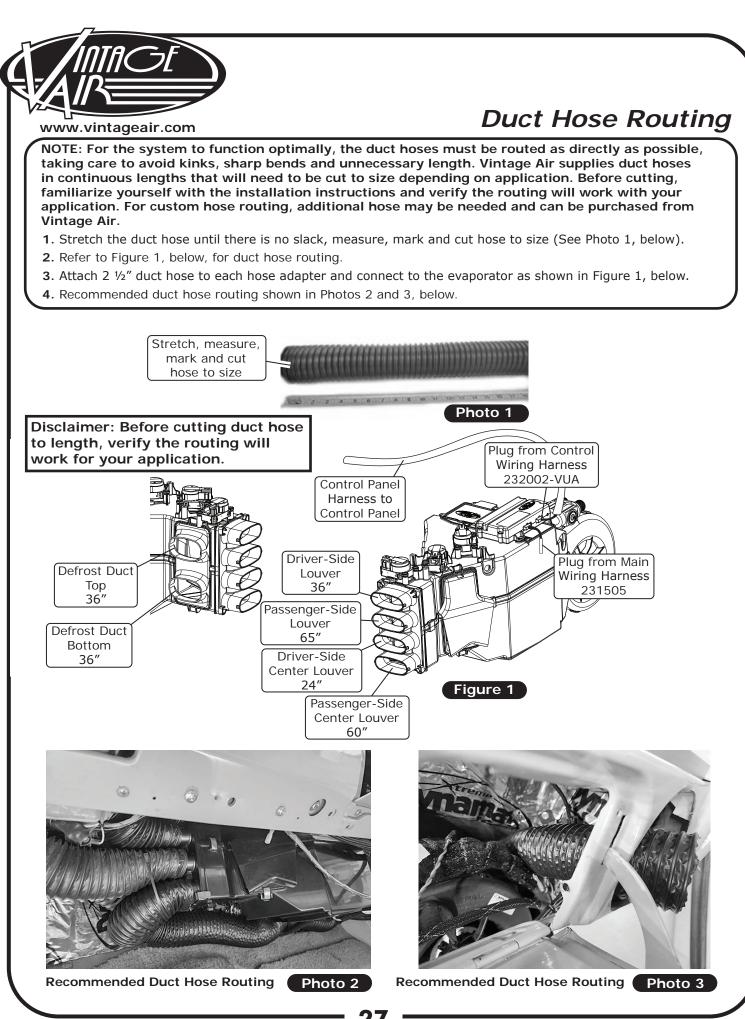
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Final Steps: Installation Check

		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. <i>At each setting confirm that the blower</i> <i>speed increases</i> , 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>
	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:
		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.



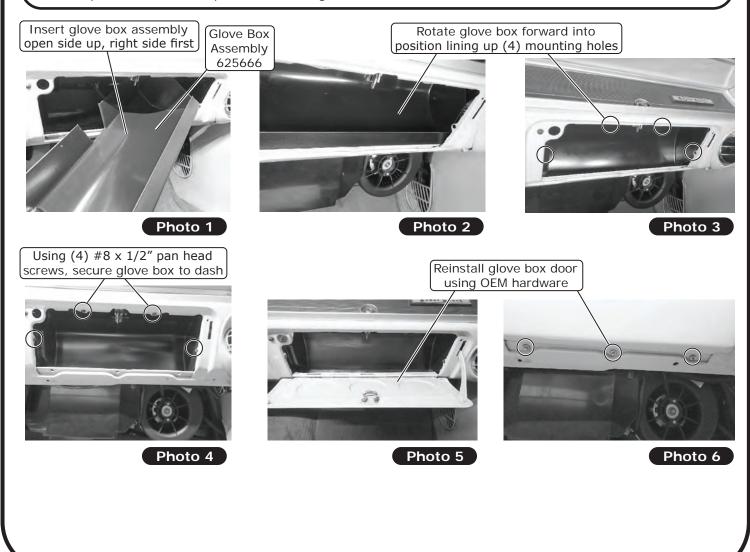
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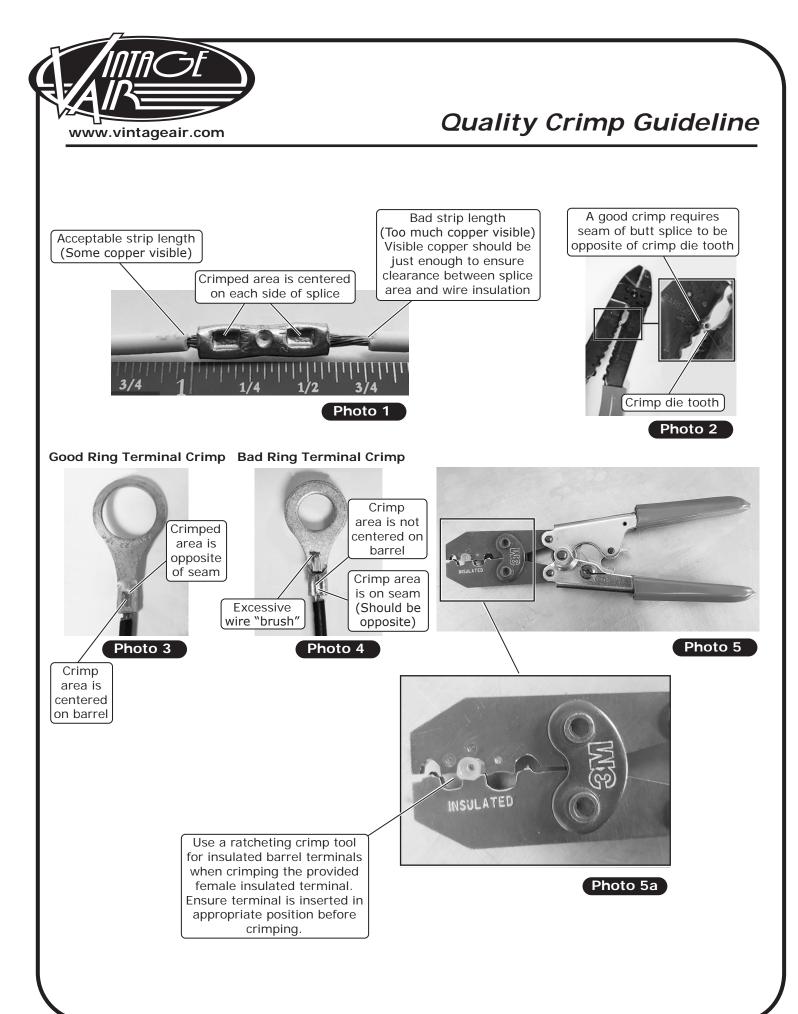
Final Steps: Completing the Install

1. Install duct hoses as shown in Figure 1, Page 27.

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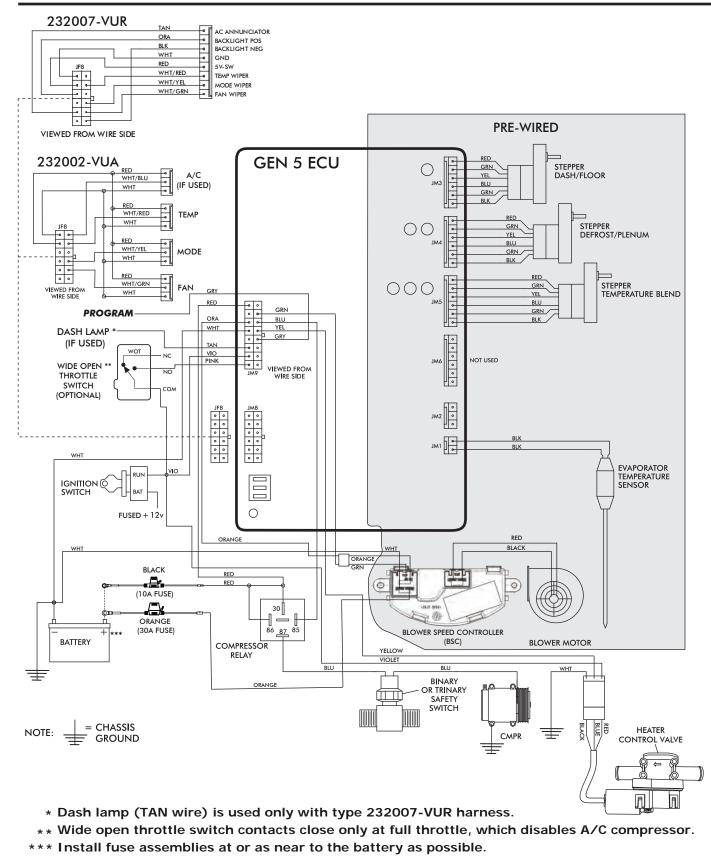
- 2. Install the control panel assembly. Refer to the control panel instructions.
- **3.** Insert the new glove box assembly open side up, right side first (See Photo 1, below). Rotate the glove box assembly forward into position, lining up the (4) mounting holes (See Photos 2 and 3, below).
- 4. Using (4) #8 x 1/2" pan head screws, secure the glove box to the dash (See Photo 4, below).
- 5. Reinstall the glove box door using the OEM hardware (See Photos 5 and 6, below).
- 6. Reinstall all previously removed items (battery tray, battery, and inner fender). Modify passenger-side kick panel as needed.
- 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 32.



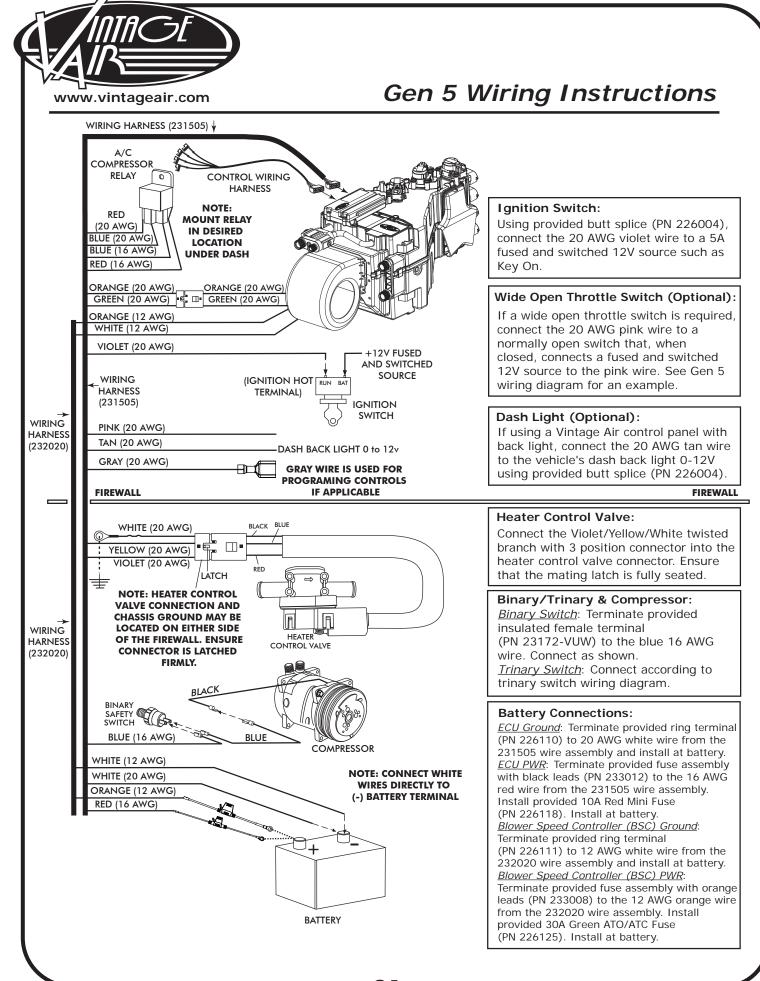




Gen 5 Wiring Diagram



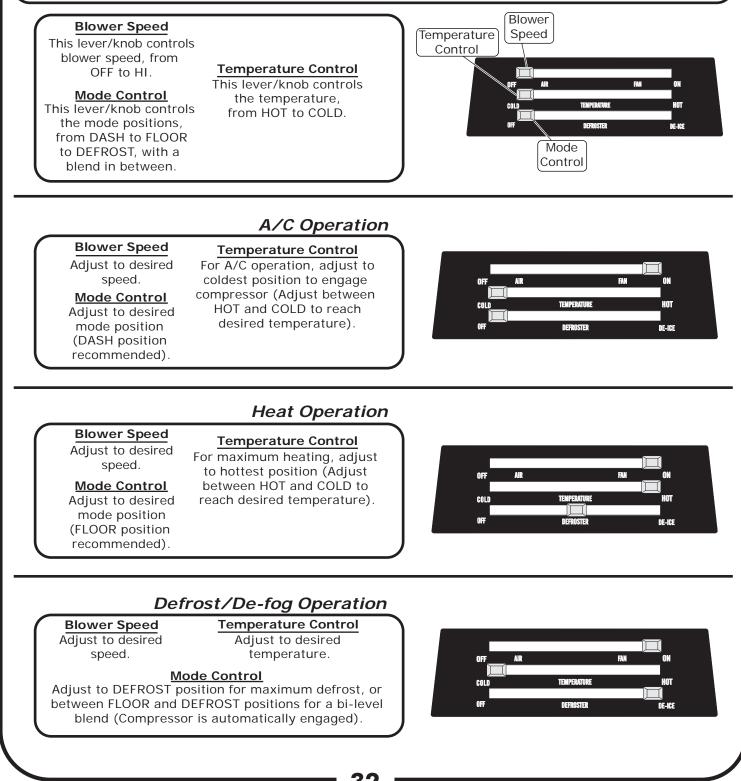
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Operation of Controls

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.				
	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
	*	for a bad ECU GND.	→Repair connection.	along its route.
6	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 5V, and will vary with pot
	System is charged.	Check for disconnected or faulty thermistor.	→ Check 2-pin connector at ECU housing.	lever position. → Disconnected or faulty thermistor will cause compressor to be disabled.
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.	between OV and 5V when betweer is moved up or down

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Werks when engine is not interact. Werks when engine is not interact. Trestal capacitors on ground stand associated in the engine is not interact. Werks when engine is started Battery voltage interference from ether interact. Desk for power at ECU and ECU wing, Check for power at ECU, and confirm ignition is being associated in the interact. Will for the interference from ether interval. Werkly proper meter function by thecking the condition of interact. Will for the interval. Werkly proper meter function by thecking the condition of interact. Will for the interval. Werkly proper meter function by thecking the condition of interval. Will for the interval. Werkly proper meter function by thecking the condition of interval. Will for the interval. Merkly proper meter function by thecking the condition of interval. Battery voltage is at task. Otheck for a test 12V at the interval. Battery voltage is at task. Otheck for a test 12V at the interval. Battery voltage is at task. Otheck for a test 12V at the interval. Battery voltage is at task. Other for the interval. Battery voltage is at task. Other for the interval. Battery voltage is at task. Other for the interval. Battery voltage is at task. Other for the interval. Battery voltage is task. Other for the interval. <th> I</th> <th>Condition</th> <th>Checks</th> <th>Actions</th> <th>Notes</th>	I	Condition	Checks	Actions	Notes
Mill not turn on under any condition. Verify connections on power will not turn on under verify sprear than 10 will end both will not turn on under any condition. Verify connections and both verify proper meter function by checking the condition of applied to ECU property. Or Verify proper meter function by checking the condition of than 16 while engine is any conditions. Verify proper meter function by checking the condition of applied to a voltage is than 16 while engine is than 10 while engine is than 10 while engine is than 10 while engine is than 12 will applied to a the sast 12 will be an and ight. Or be for all than than 12 will applied to the issue than 12 will applied to the issue is not to the Advanced Diagnostics and Troubleshooting to the Advanced Name to the Advanced Diagnostics and Troubleshooting to the Advanced Diagnostics and Troubleshooting to the Advanced Name to the Advanced Signet to the issue to the Advanced Signet to the issue to the Advanced Signet to the issue to the Advanced Signet to the issue is not to the Advanced Namoret (to the Advanced Diagnostics and Troubl	4.	Works when engine is not running; shuts off when engine is started		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
Will not turn on under any conditions. Verify battery voltage is greater than 10 volts and less preater than 10 volts and less frunning. Verify proper meter function by checking the condition of than 10 volts and less prode door mode door voltage is at least mode. Verify proper meter function by checking the condition of than 10 volts and mode change at all. Verify proper meter function by checking the condition of mode. Verify proper meter function by checking the condition of mode. Verify proper meter function by checking the condition of mode. Verify proper meter function by checking the condition of mode. Verify proper meter function by checking the condition of mode. Verify proper meter function by checking the condition of mode. Verify proper meter function by checking the condition of mode. Verify proper meter function by checking the condition of mode. mode.	System will not turn on, or runs intermittently.				quality oscilloscope. Spikes greater than 16V will shut down the ECU. Install a radio capacitor at the positive post of the ignition
node door -/loo mode change at all. Check for damaged mode associated wintion associated wintion associated wintion. Image: Sociated wintion of the set of set		Will not turn on under any conditions.	attery :han 1 while	Verify proper meter function by checking the condition of a known good battery.	coil (see radio capacitor installation bulletin). A faulty alternator or worn out battery can also result in this condition.
Battery voltage is at least 12V Check for at least 12V at 12V Ensure all system grounds and power connections are clean and tight. Battery voltage is less Check for faulty battery or lean and tight. Ensure all system grounds and power connections are clean and tight. Iman 12V Battery voltage is less Check for damaged switch or lean and tight. Charge battery Iman 12V Iman 12V Check for damaged switch or pot and associated wing. Repair or replace. Iman 12V Dot and associated wing. Repair or replace. Iman 12V Iman 12V Dot and associated wing. Repair or replace. Iman 12V Iman 12V Dot and associated wing. Repair or replace. Iman 12V Iman 12V Dot and associated wing. Repair or replace. Iman 12V Iman 12V Dot and associated wing. Iman 12V Iman 12V Iman 12V Dot and associated wing. Iman 12V Iman 12V Iman 12V Dot and associated wing. Iman 12V Iman 12V Iman 12V Dot and associated wing. Iman 12V Iman 12V Iman 12V Dot and associated wing. Iman 12V Iman 12V Iman 12V Dot and 12V Dot and 1	5. Loss of mode door function.	No mode change at all.	Check for damaged mode switch or potentiometer and associated wiring.		
Check for damaged switch or pot and associated wing. Repair or repport or repport or repport or repport or an associated wing. Advanced Diagnostics and Troubleshooting Guide, the issue is not to The Advanced Diagnostics and Troubleshooting set the following: Access the following for the issue is not to The Advanced Diagnostics and Troubleshooting the Troubleshooting and Troubleshooting for the Advanced Diagnostics and Troubleshooting for the Advanced Troubleshooting Guidelines	6. Blower turns on and off rapidly.	Battery voltage is at least 12V. Battery voltage is less than 12V.	Check for at least 12V a circuit breaker. Check for faulty battery alternator.	m grounds and power connections are	System shuts off blower at 10V. Poor connections or weak battery can cause shutdown at up to 11V.
gnostics th Troubles mobile d You can a your web	7. Erratic functions blower, mode, temp, etc.	of	Check for damaged switch c pot and associated wiring.		
		A		nostics and Troubleshoo	ting Guide
ice shooting Guidelines	If after refere resolved, mov Guide that cov	ncing the Troubleshooting /e to The Advanced Diagr /ers the following:	g Guide, the issue is not nostics and Troubleshooting	Access the latest version of the Advanced Diag Troubleshooting Guide by scanning the followin mobile device:	nostics and ig QR code on your
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sau	3. ECU Mc 4. ECU Sta	odel Number art-Up Blink Sequence			
	Complete	e Advanced Troublesho	oting Guidelines	You can also access the guide by typing the foll your web browser: https://www.vintageair.com/instructions_pdf/90	owing address into <u>35000.pdf</u>

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