

1973-79 Ford F-Series/ 1978-79 Bronco

without Factory Air Evaporator Kit (751160)





Table of Contents

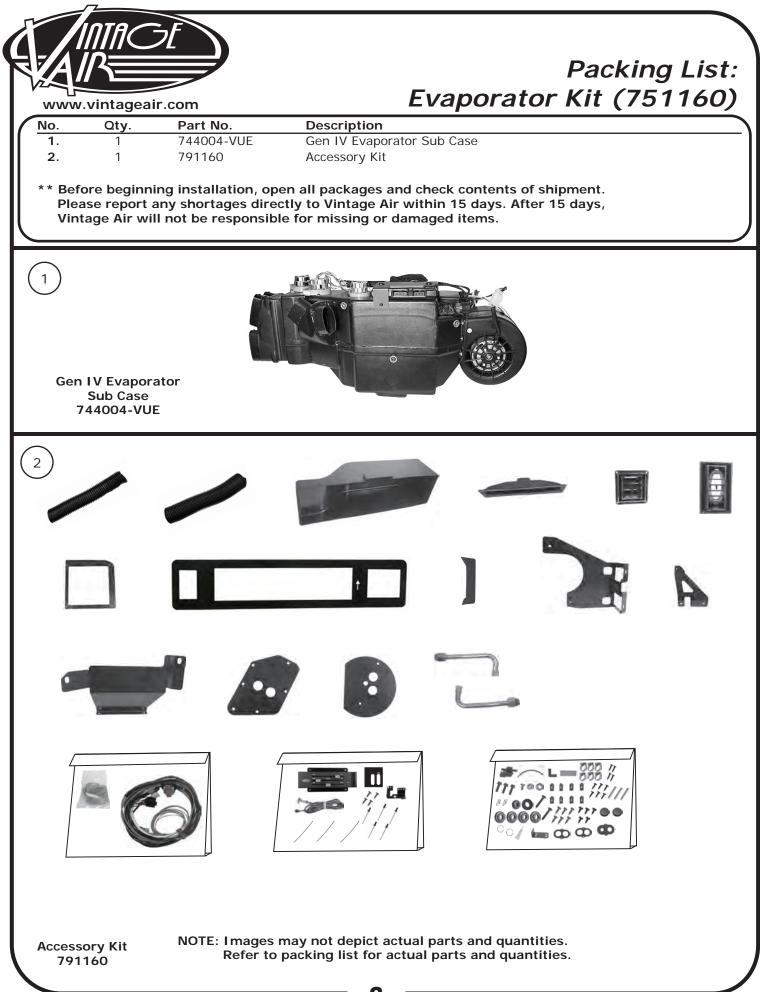
Cover
Table of Contents
Packing List/Parts Disclaimer
Information Page4
Wiring Notice
Engine Compartment Disassembly, Passenger Compartment Disassembly
Passenger Compartment Disassembly (Cont.)
Condenser Assembly & Installation, Compressor & Brackets, Passenger Side Wheel Well
Modification
Engine Compartment, Passenger Side Inner Fender Modification, Firewall Modification, Firewall
Insulation
Defrost Duct Installation, Center and Passenger Side Louver Installation
Center and Passenger Side Louver Installation (Cont.), Lubricating O-rings, Evaporator Preparation
Evaporator Preparation (Cont.), A/C Hose Routing & Kick Panel Cover Installation
A/C Hose Routing & Kick Panel Cover Installation (Cont.)
A/(Hose Routing & Kick Panel (over Installation (Final) Evanorator & Firewall (over
A/C Hose Routing & Kick Panel Cover Installation (Final), Evaporator & Firewall Cover
Installation15
Installation
Installation15Evaporator & Firewall Cover Installation (Cont.)16Evaporator Unit Leveling, Wiring Installation17
Installation15Evaporator & Firewall Cover Installation (Cont.)16Evaporator Unit Leveling, Wiring Installation17Wiring Installation (Cont.)18
Installation15Evaporator & Firewall Cover Installation (Cont.)16Evaporator Unit Leveling, Wiring Installation17Wiring Installation (Cont.)18A/C Hose Installation19
Installation15Evaporator & Firewall Cover Installation (Cont.)16Evaporator Unit Leveling, Wiring Installation17Wiring Installation (Cont.)18A/C Hose Installation19Wiring Final Steps20
Installation15Evaporator & Firewall Cover Installation (Cont.)16Evaporator Unit Leveling, Wiring Installation17Wiring Installation (Cont.)18A/C Hose Installation19Wiring Final Steps20Heater Hose & Heater Control Valve Installation21
Installation15Evaporator & Firewall Cover Installation (Cont.)16Evaporator Unit Leveling, Wiring Installation17Wiring Installation (Cont.)18A/C Hose Installation19Wiring Final Steps20Heater Hose & Heater Control Valve Installation21Drain Hose Installation, Duct Hose Installation and Routing22
Installation15Evaporator & Firewall Cover Installation (Cont.)16Evaporator Unit Leveling, Wiring Installation17Wiring Installation (Cont.)18A/C Hose Installation19Wiring Final Steps20Heater Hose & Heater Control Valve Installation21Drain Hose Installation, Duct Hose Installation and Routing22Control Panel Installation, Glove Box Installation23
Installation15Evaporator & Firewall Cover Installation (Cont.)16Evaporator Unit Leveling, Wiring Installation17Wiring Installation (Cont.)18A/C Hose Installation19Wiring Final Steps20Heater Hose & Heater Control Valve Installation21Drain Hose Installation, Duct Hose Installation and Routing22Control Panel Installation, Glove Box Installation23Final Steps24
Installation15Evaporator & Firewall Cover Installation (Cont.)16Evaporator Unit Leveling, Wiring Installation17Wiring Installation (Cont.)18A/C Hose Installation19Wiring Final Steps20Heater Hose & Heater Control Valve Installation21Drain Hose Installation, Duct Hose Installation22Control Panel Installation, Glove Box Installation23Final Steps24Wiring Diagram25
Installation.15Evaporator & Firewall Cover Installation (Cont.).16Evaporator Unit Leveling, Wiring Installation.17Wiring Installation (Cont.).18A/C Hose Installation.19Wiring Final Steps.20Heater Hose & Heater Control Valve Installation.21Drain Hose Installation, Duct Hose Installation and Routing.22Control Panel Installation, Glove Box Installation.23Final Steps.24Wiring Diagram.25Gen IV Wiring Connection Instructions.26
Installation.15Evaporator & Firewall Cover Installation (Cont.).16Evaporator Unit Leveling, Wiring Installation.17Wiring Installation (Cont.).18A/C Hose Installation.19Wiring Final Steps.20Heater Hose & Heater Control Valve Installation.21Drain Hose Installation, Duct Hose Installation and Routing.22Control Panel Installation, Glove Box Installation.23Final Steps.24Wiring Diagram.25Gen IV Wiring Connection Instructions.26Operation of Controls.27
Installation.15Evaporator & Firewall Cover Installation (Cont.).16Evaporator Unit Leveling, Wiring Installation.17Wiring Installation (Cont.).18A/C Hose Installation.19Wiring Final Steps.20Heater Hose & Heater Control Valve Installation.21Drain Hose Installation, Duct Hose Installation and Routing.22Control Panel Installation, Glove Box Installation.23Final Steps.24Wiring Diagram.25Gen IV Wiring Connection Instructions.27Troubleshooting Guide.28
Installation.15Evaporator & Firewall Cover Installation (Cont.).16Evaporator Unit Leveling, Wiring Installation.17Wiring Installation (Cont.).18A/C Hose Installation.19Wiring Final Steps.20Heater Hose & Heater Control Valve Installation.21Drain Hose Installation, Duct Hose Installation and Routing.22Control Panel Installation, Glove Box Installation.23Final Steps.24Wiring Diagram.25Gen IV Wiring Connection Instructions.26Operation of Controls.27



A detailed tech video outlining the installation process is available on Vintage Air's YouTube channel at https://bit.ly/3dBfx5X. The application will vary on without factory air evaporators kits. Viewing the tech video along with the written instructions will provide the installer the most detailed

installation procedure.

Z





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 IV 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.

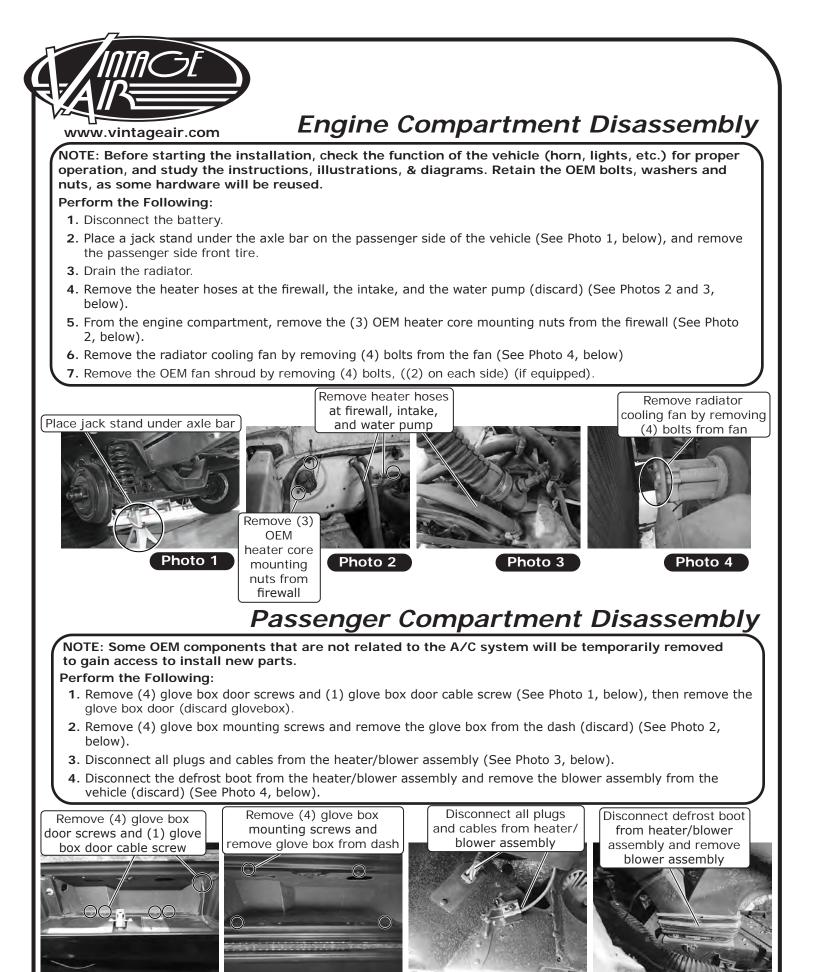


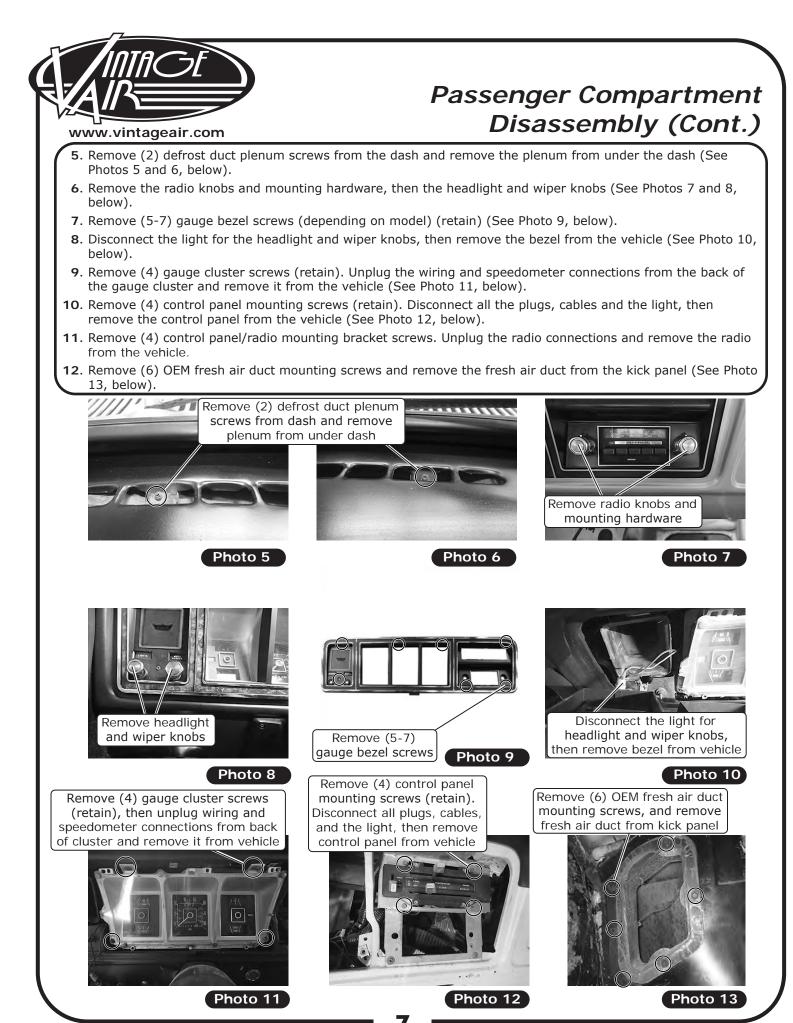
Photo 2

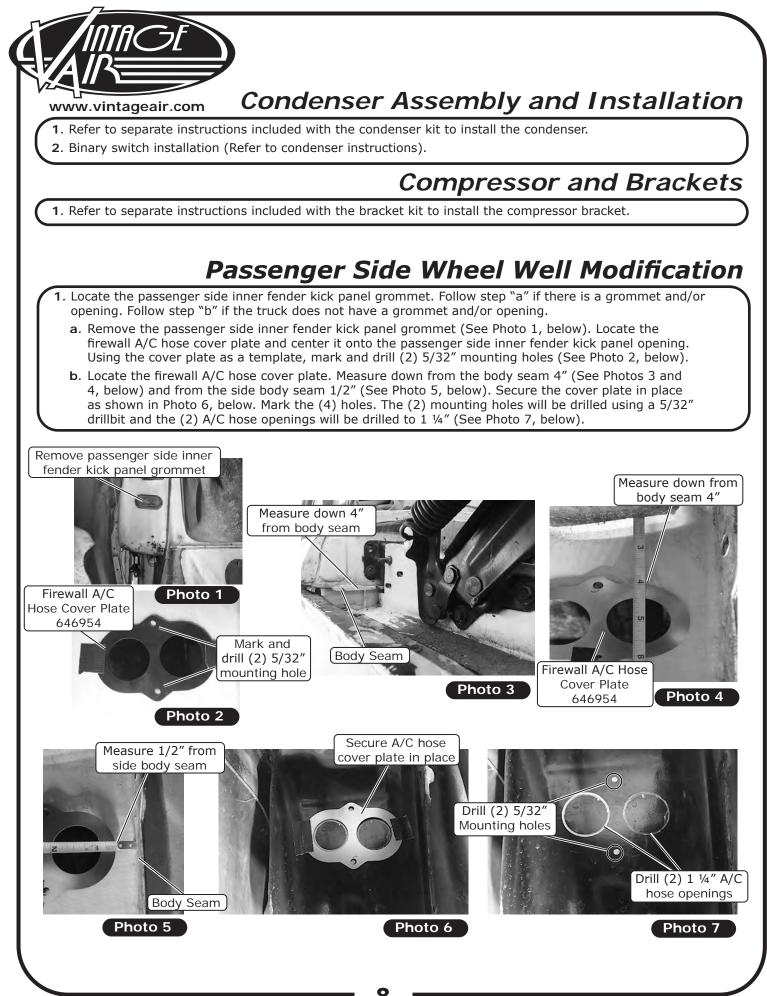
Photo 1

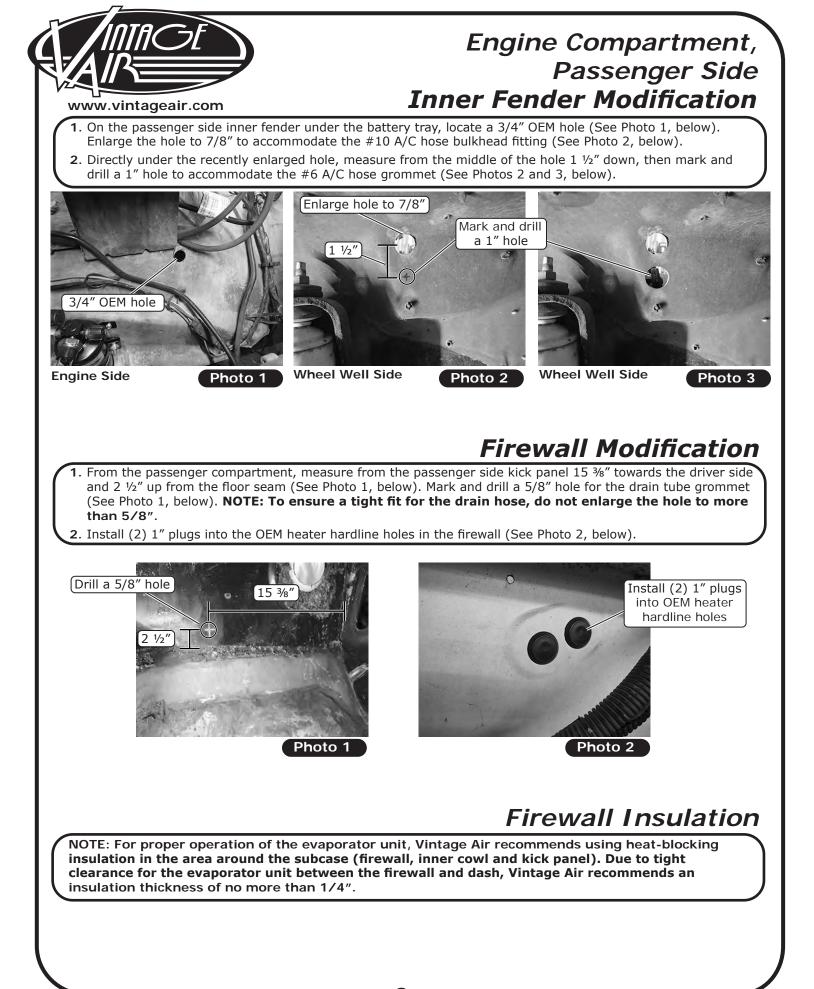
900224 REV D 06/07/22, PG 6 OF 30

hoto 4

Photo 3



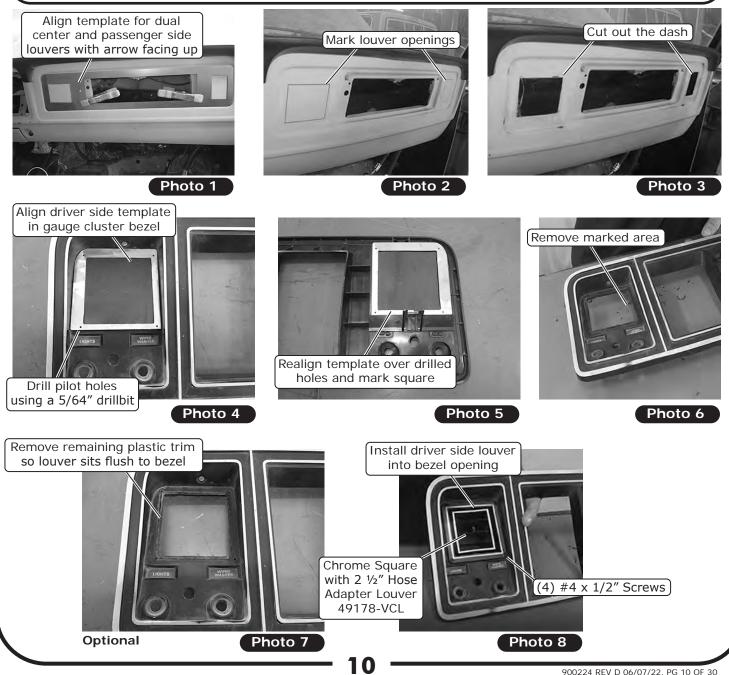


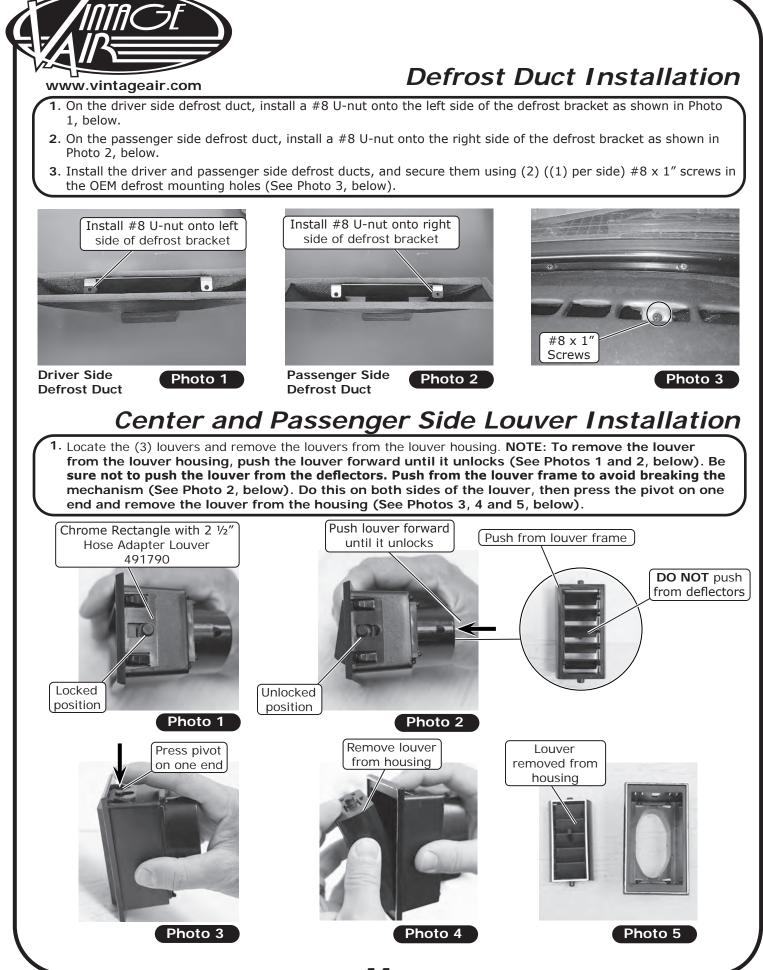


www.vintageair.com

Dash Modification

- Using the template provided in the kit, align the template for the dual center and passenger side louvers with the arrow facing up as shown in Photo 1 below.
- 2. Mark the louver openings and cut out the dash (See Photos 2 and 3, below). NOTE: Before cutting the dash, ensure the marks are the same size as the template openings.
- Align the driver side template in the gauge cluster bezel as shown in Photo 4, below. Drill the pilot holes using a 5/64" drill bit.
- Flip the bezel over and realign the template over the drilled holes, then mark the square (See Photo 5, below).
- 5. Cut and remove the marked area (See Photo 6, below).
- 6. Optional- Flip the bezel over to the front side and remove the remaining plastic trim so the louver sits flush to the bezel (See Photo 7, below).
- **7.** Install the driver side louver into the bezel opening and secure it using (4) $#4 \times 1/2''$ screws (See Photo 8, below).



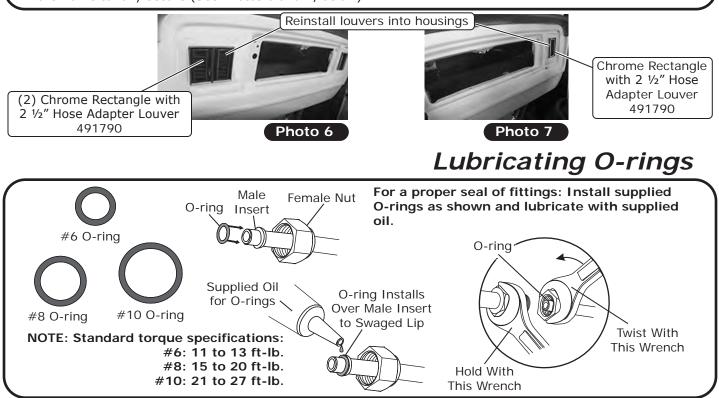


Center and Passenger Side Louver Installation (Cont.)

www.vintageair.com

2. Install the louver housings into the previously modified dash openings. NOTE: Before installing the louver housings, make sure all the housings are aligned/oriented with the larger opening for the louver pivot at the bottom of the dash. If the louver housings are loose in the dash openings, apply silicone to the mating surface of the housings, then install and let dry.

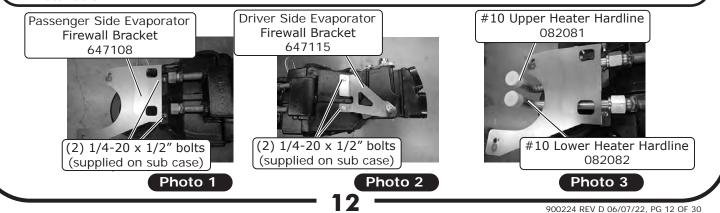
3. Reinstall the louvers into the housings by pressing on the pivots, then push the louver into the housing from the frame to fully secure (See Photos 6 and 7, below).

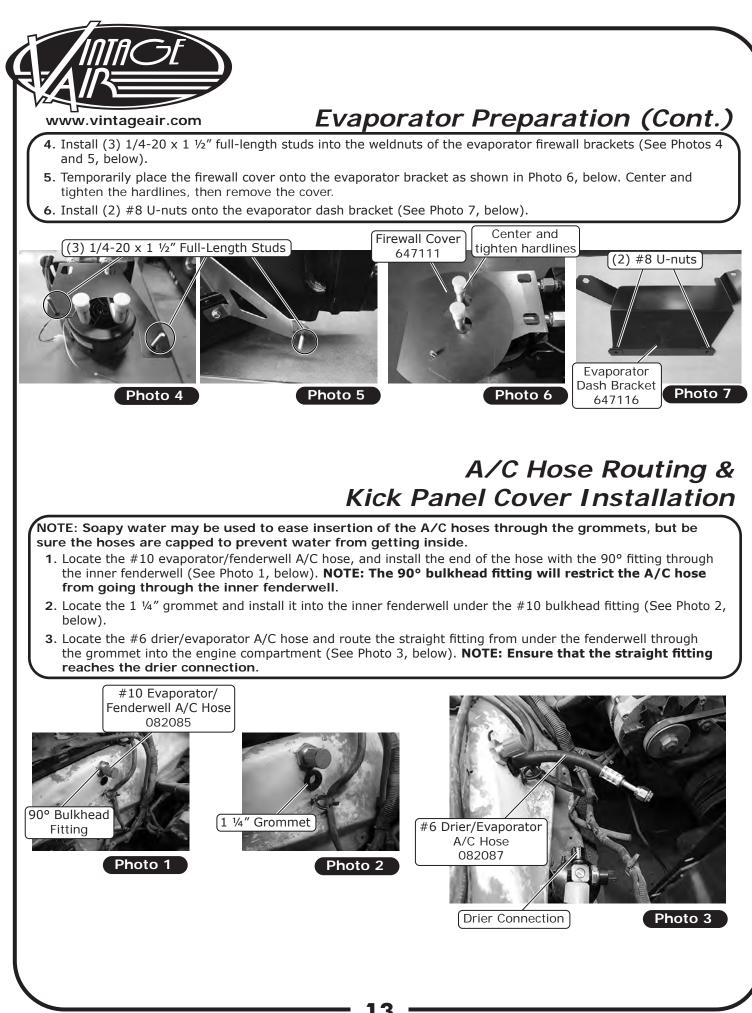


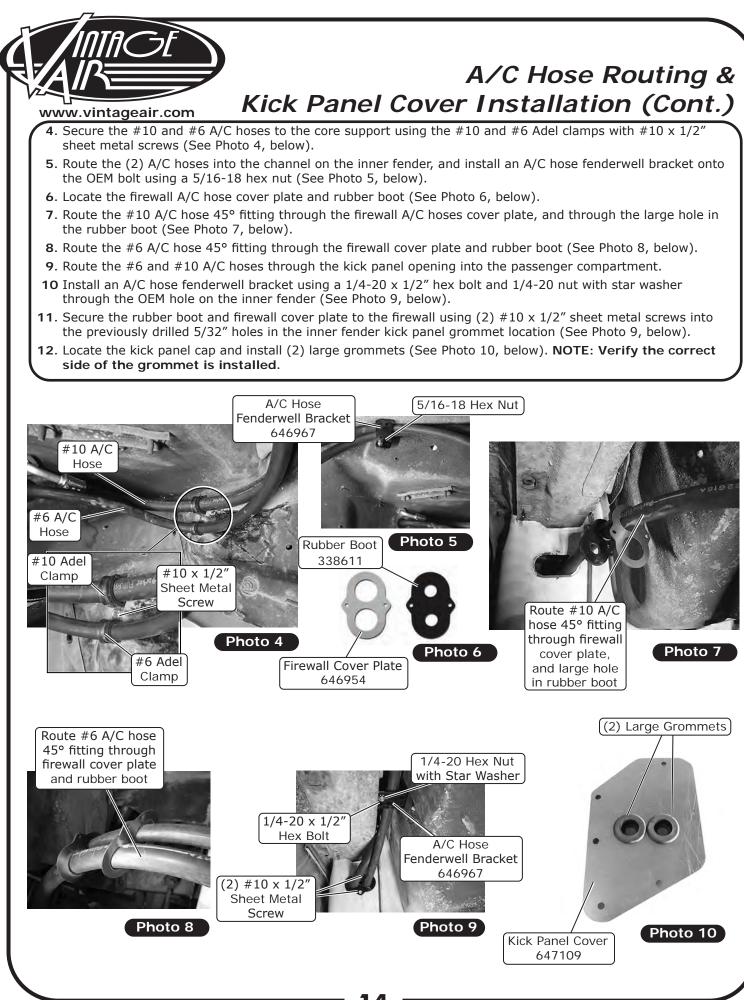
Evaporator Preparation

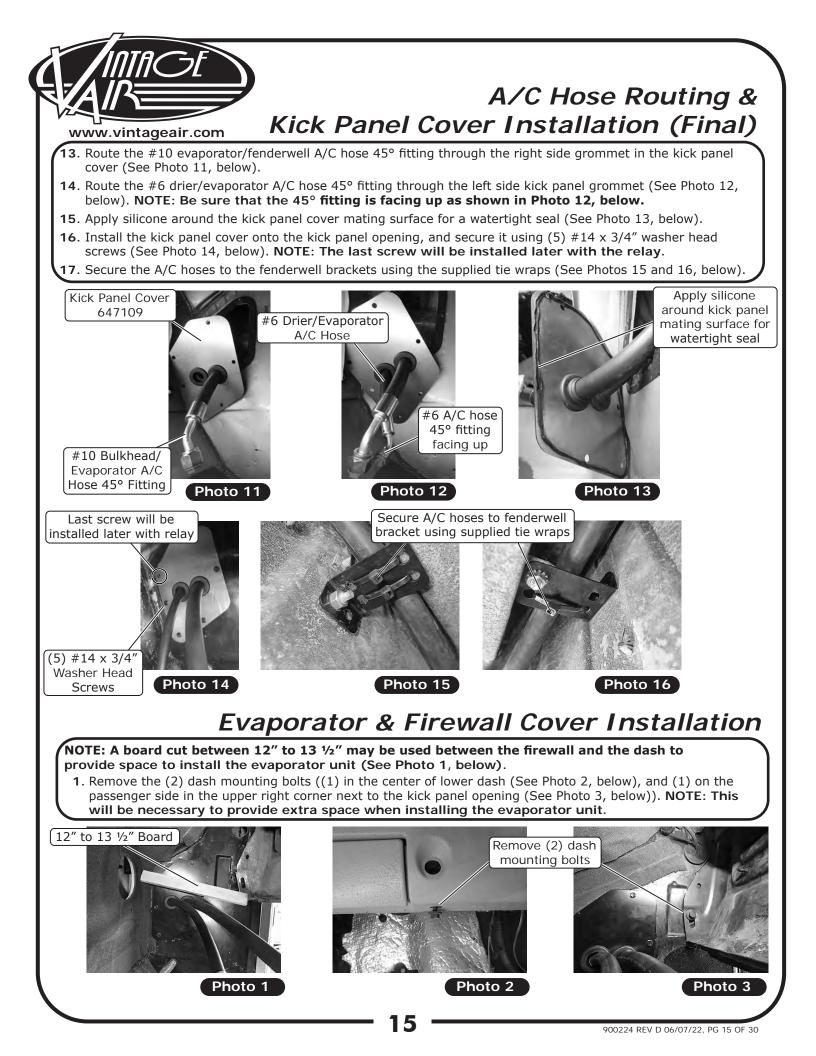
On a workbench, perform the following:

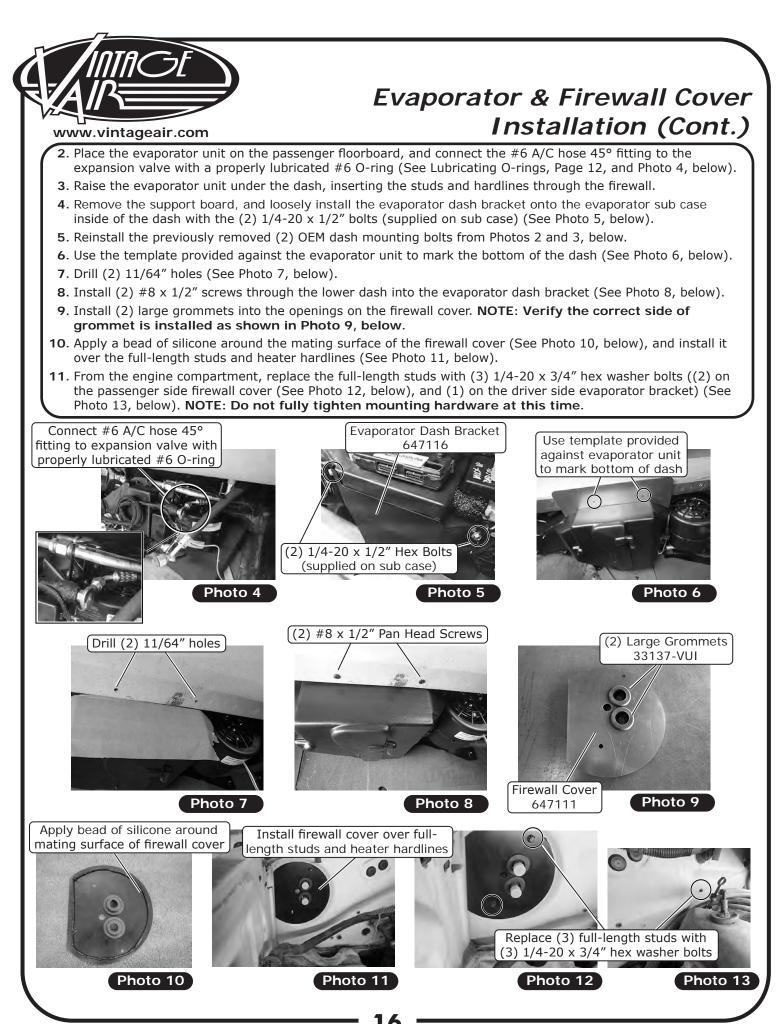
- **1**. Install the passenger side evaporator firewall bracket onto the evaporator using (2) $1/4-20 \times 1/2''$ bolts (supplied on the evaporator sub case) (See Photo 1, below).
- Install the driver side evaporator firewall bracket using (2) 1/4-20 x 1/2" bolts (supplied on the evaporator sub case) (See Photo 2, below).
- 3. Install the #10 upper and lower heater hardlines onto the evaporator unit with properly lubricated #10 O-rings (See Lubricating O-rings, above, and Photo 3, below). NOTE: The sub case is shipped under pressure. When removing the caps from the sub case, be careful and ensure the rubber inserts are removed! Do not fully tighten the hardlines until all lines are in the proper position for installation.













Evaporator Unit Leveling

NOTE: To ensure proper drainage, it is very important the evaporator is level, both fore-aft and left-right. Before leveling the evaporator, ensure the vehicle is level (See Photos 1 and 2, below).
1. Once the unit has been leveled, tighten all mounting hardware ((3) firewall mounting bolts and (2) dash bracket mounting bolts).





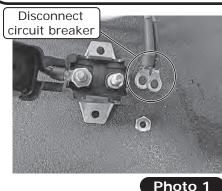
Photo 2

Route heater control valve plug

through 7/8" OD x 3/8" ID grommet

Wiring Installation

- **1**. Disconnect the circuit breaker from the main wiring harness (See Photo 1, below).
- Enlarge the hole on the relay mounting tab to accommodate the #14 x 3/4" washer head screw installed on the kick panel cover (See Photo 2, below).
- **3**. Route the heater control valve plug through the 7/8'' OD x 3/8'' ID grommet (See Photo 3, below).
- 4. Install the 7/8" OD x 3/8" ID grommet into the 5/8" hole in the firewall cover (See Photo 4, below).
- **5.** Route the red, white and blue wires from the main wiring harness through the 7/8" OD x 3/8" ID grommet into the engine compartment and along the top of the inner fender toward the battery in the engine compartment (See Photo 5, below).
- 6. Attach the white ground wire eyelet from the heater control valve to a suitable ground (See Photo 6, below).



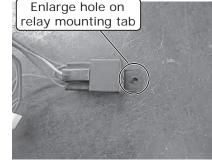
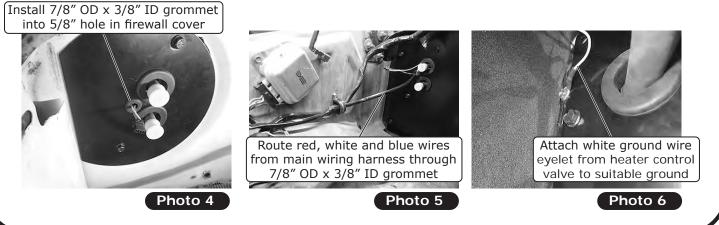


Photo 2



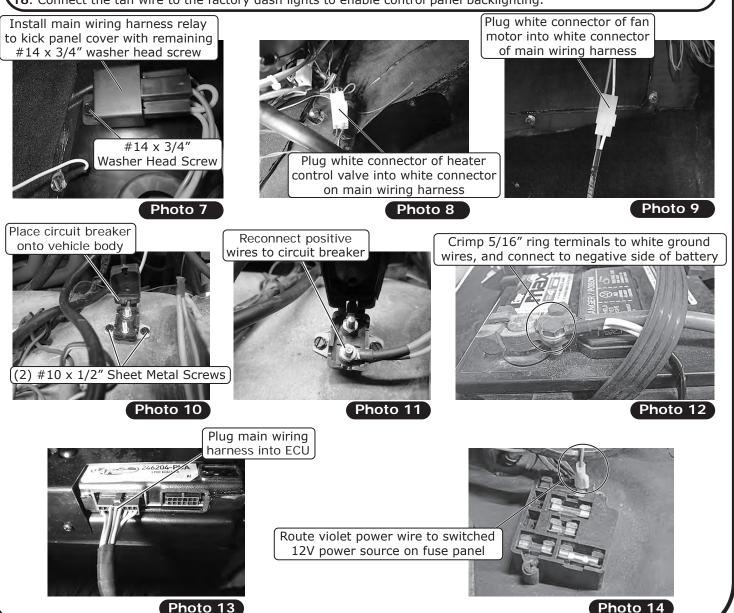
900224 REV D 06/07/22, PG 17 OF 30

Photo 3



www.vintageair.com

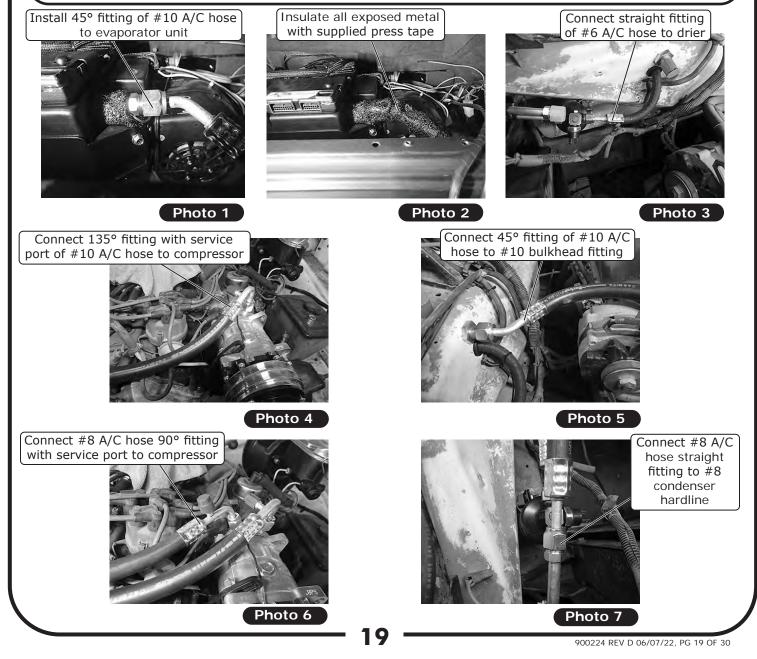
- **7.** Install the main wiring harness relay onto the kick panel cover with the remaining #14 x 3/4" washer head screw (See Photo 7, below).
- **8.** Plug the white connector of the heater control valve into the white connector on the main wiring harness (See Photo 8, below).
- 9. Plug the white connector of the fan motor into the white connector of the main harness (See Photo 9, below).
- **10.** Place the circuit breaker onto the vehicle body and secure it using (2) #10 x 1/2" sheet metal screws (See Photo 10, below). **NOTE: Mount the circuit breaker as close to the battery as possible**.
- 11. Reconnect the positive wires to the circuit breaker (See Photo 11, below).
- Crimp the supplied 5/16" ring terminals to the white ground wires and connect them to the negative side of the battery (See Photo 12, below).
- **13**. Crimp the supplied 5/16" ring terminal to the red positive wire. **NOTE: Do not connect to the positive side of the battery until the installation is complete**.
- 14. Plug the main wiring harness into the ECU (See Photo 13, below).
- 15. Route the violet power wire to a switched 12v power source on the fuse panel (See Photo 14, below).
- **16**. Connect the tan wire to the factory dash lights to enable control panel backlighting.





A/C Hose Installation

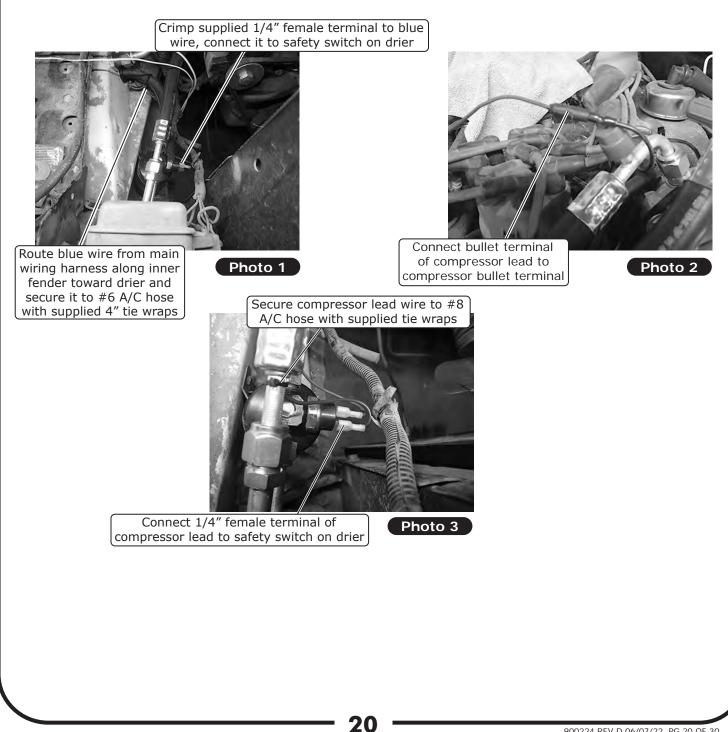
- 1. Install the 45° fitting of the #10 evaporator/fenderwell A/C hose to the evaporator unit #10 fitting with a properly lubricated #10 O-ring (See Lubricating O-rings, Page 12, and Photo 1, below).
- 2. Insulate the #10 evaporator fitting and all exposed metal with the supplied press tape (See Photo 2, below).
- **3.** Using a properly lubricated #6 O-ring (See Lubricating O-rings, Page 12), connect the straight fitting of the #6 drier/evaporator A/C hose to the drier (See Photo 3, below).
- **4**. Using a properly lubricated #10 O-ring (See Lubricating O-rings, Page 12), connect the 135° fitting with service port of the #10 fenderwell/compressor A/C hose to the #10 suction port on the compressor (See Photo 4, below).
- **5.** Using a properly lubricated #10 O-ring (See Lubricating O-rings, Page 12), connect the 45° fitting of the #10 fenderwell/compressor A/C hose to the #10 bulkhead fitting (See Photo 5, below).
- 6. Using a properly lubricated #8 O-ring (See Lubricating O-rings, Page 12), connect the #8 condenser/ compressor A/C hose 90° fitting with service port to the #8 discharge port on the compressor (See Photo 6, below).
- **7.** Using a properly lubricated #8 O-ring (See Lubricating O-rings, Page 12), connect the #8 A/C hose straight fitting to the #8 condenser hardline (See Photo 7, below).





Wiring Final Steps

- 1. Route the blue wire from the main wiring harness along the inner fender toward the drier, and secure it to the #6 A/C hose with the supplied tie wraps. Crimp the supplied 1/4'' female terminal to the blue wire, and connect it to the safety switch on the drier (See Photo 1, below).
- 2. Connect the bullet terminal of the compressor lead to the compressor bullet terminal (See Photo 2, below).
- 3. Route the compressor lead wire along the #8 A/C hose. Secure the compressor lead wire to the #8 A/C hose with the supplied tie wraps. Connect the 1/4'' female terminal of the compressor lead to the safety switch on the drier (See Photo 3, below).

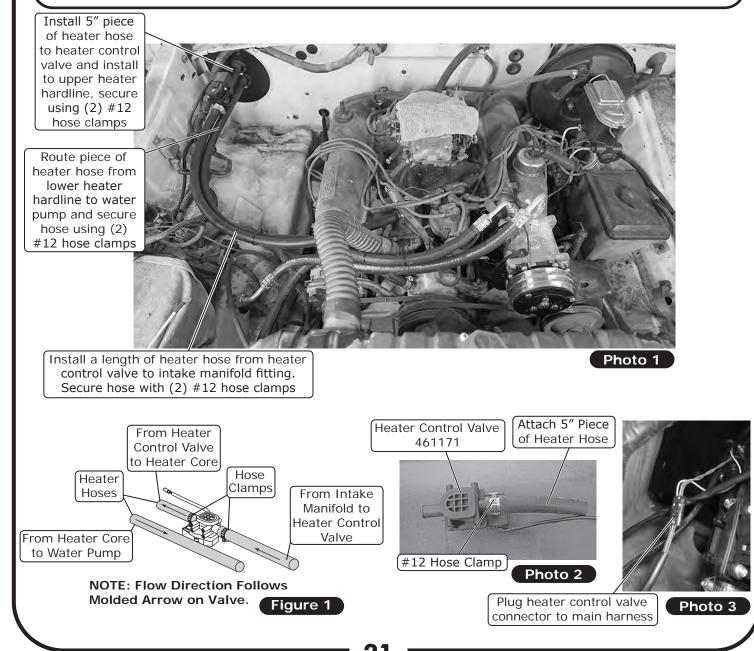




Heater Hose & Heater Control Valve Installation

NOTE: Vintage Air systems use 5/8" 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 cast-in 3/4" heater outlet, a $3/4" \times 5/8"$ reducer fitting (not supplied) or molded hose (Vintage Air part #099010) will need to be installed in the heater hose.

- **1.** Remove the caps from the heater hardlines.
- Route a piece of heater hose (not supplied) from the lower heater hardline to the water pump and secure the hose using (2) #12 hose clamps (See Photo 1, below).
- Install a 5" piece of heater hose (not supplied) to the heater control valve and install it to the upper heater hardline, then secure it using (2) #12 hose clamps (See Photo 1, below). NOTE: Ensure proper flow direction through the heater control valve (the flow direction follows the molded arrow on the valve) (See Figure 1 and Photo 2, below).
- Install a length of heater hose (not supplied) from the heater control valve to the intake manifold fitting. Secure the hose with (2) #12 hose clamps (See Photo 1, below).
- 5. Plug the heater control valve connector to the main harness (See Photo 3, below).

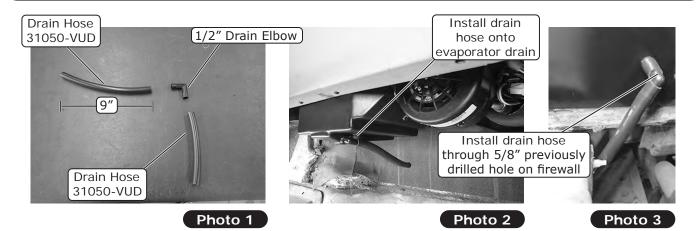




www.vintageair.com

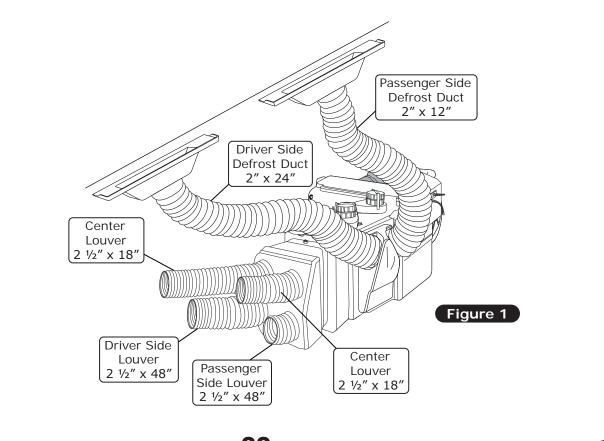
Drain Hose Installation

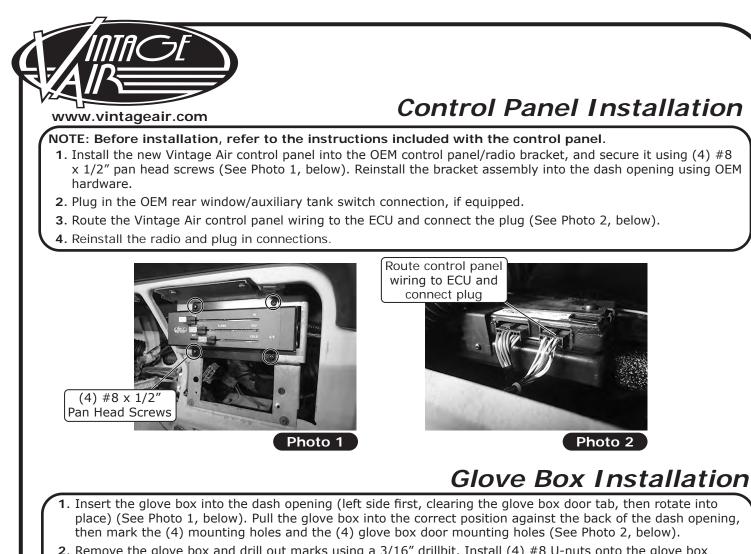
- Cut the supplied drain hose to 9" long, and install the 1/2" drain elbow, then attach the remainder of the drain hose to the other end as shown in Photo 1, below.
- 2. Install the drain hose through the previously drilled 5/8" hole on the firewall, then onto the evaporator drain (See Photos 2 and 3, below). NOTE: The 9" piece of hose attaches to the drain on the evaporator.



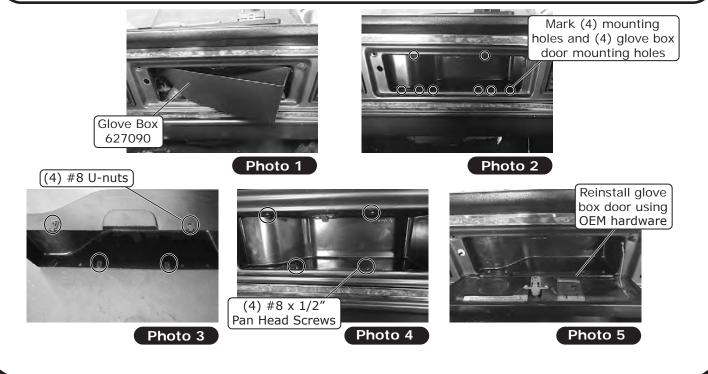
Duct Hose Installation and Routing

NOTE: During the installation of the duct hoses, ensure there is enough clearance around the passenger side windshield wiper assembly for the wiper arm to move freely.





- Remove the glove box and drill out marks using a 3/16" drillbit. Install (4) #8 U-nuts onto the glove box mounting holes as shown in photo Photo 3, below.
- Reinstall the glove box into the dash opening and secure it using (4) #8 x 1/2" pan head screws (See Photo 4, below).
- 4. Reinstall the glove box door using the OEM hardware (See Photo 5, below).



AR

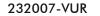
Final Steps

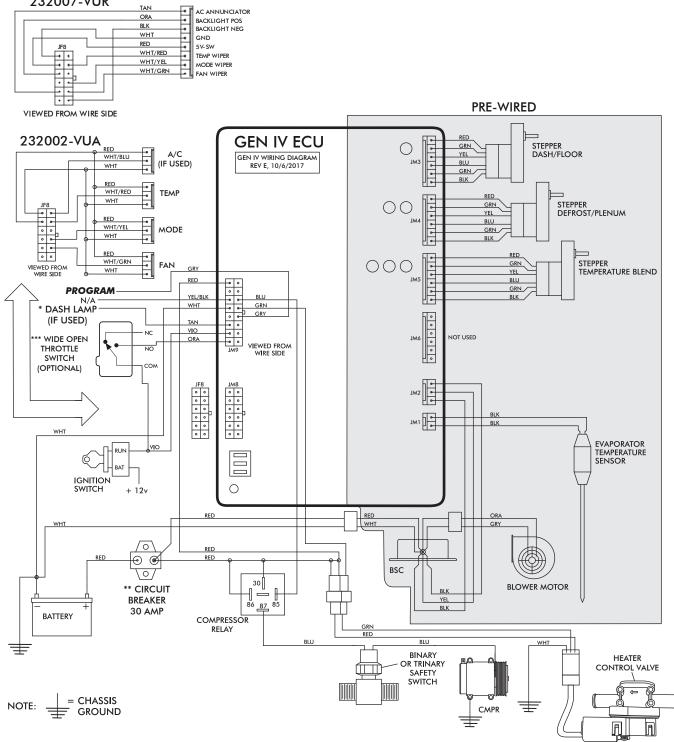
www.vintageair.com

- 1. Connect the speedometer cable and connection plug to the gauge cluster and reinstall it into the dash using the OEM hardware.
- 2. Reinstall the gauge bezel connecting the driver side duct hose to the louver.
- 3. Reinstall any other previously removed items.
- 4. 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.
- 5. Double check all fittings, brackets and belts for tightness.
- 6. Vintage Air recommends that all A/C systems be serviced by a licensed automotive technician.
- **7.** Evacuate the system for a minimum of 45 minutes prior to charging, and perform a leak check prior to servicing.
- 8. Charge the system to the capacities stated on Page 4 of this manual.
- 9. See the operation of controls procedures on Page 27 of this manual.



Wiring Diagram

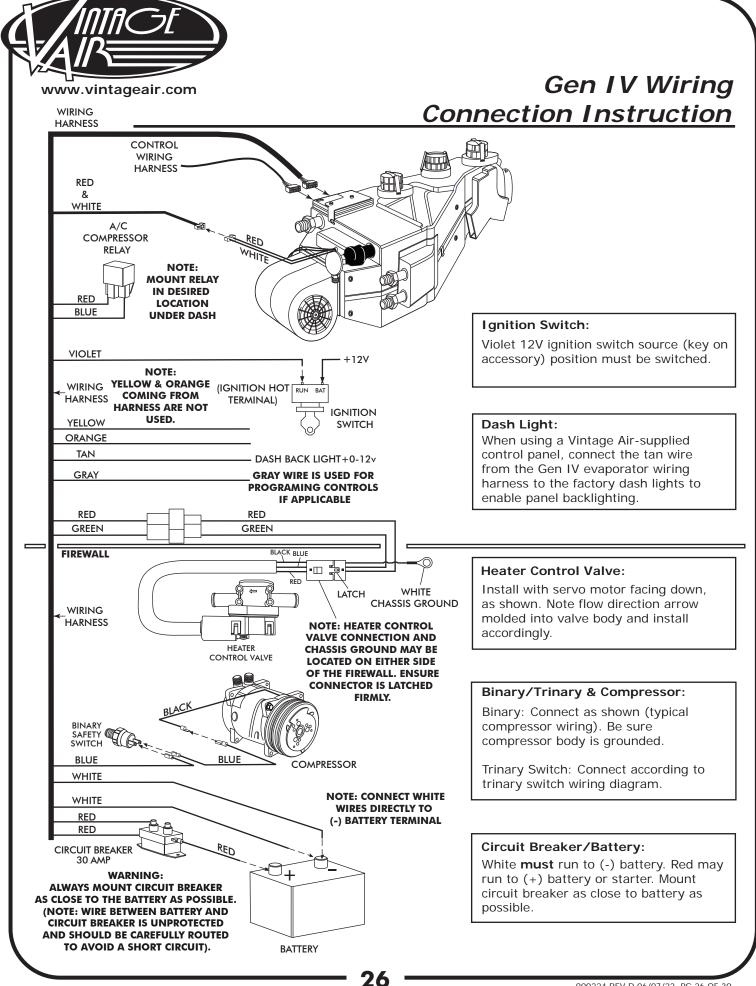




- * Dash lamp is used only with type 232007-VUR harness.
- ** Warning: Always mount circuit breaker as close to the battery as possible. (NOTE: Wire between battery and circuit breaker is unprotected and should be carefully routed to avoid a short circuit).

25

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

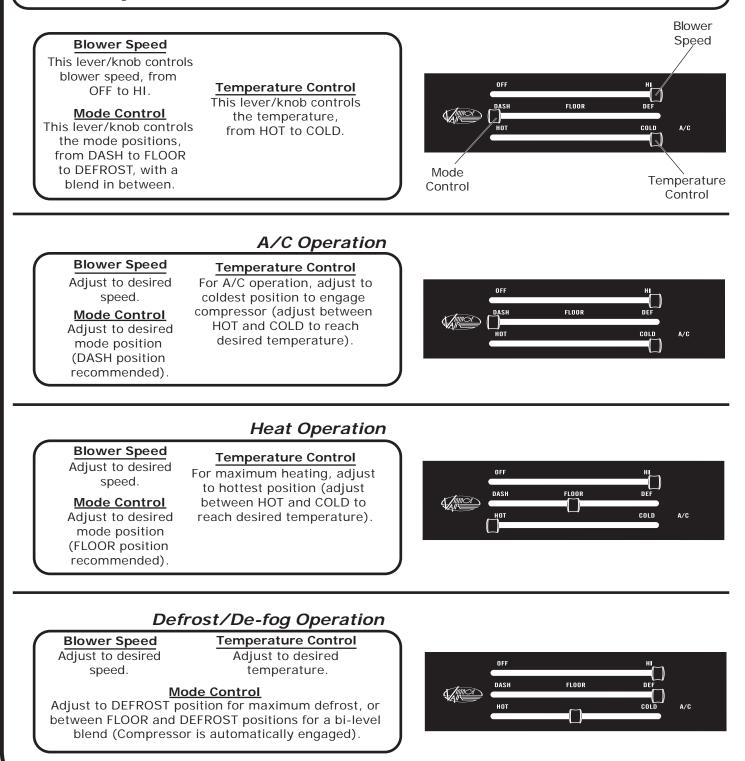


⁹⁰⁰²²⁴ REV D 06/07/22, PG 26 OF 30



Operation of Controls

On Gen IV 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.



Troubleshooting Guide	Actions Notes	 Verify that all pins are inserted into plug. Ensure that no pins are bent or damaged in ECU. Verify continuity to chassis ground with white control head inoperable. Verify wire at various points. See blower switch check procedure. 	 Be sure the small, 20 GA white ground wire is connected to the battery ground post. If it is, replace the ECU. Check to ensure that no BSC wiring is damaged or shorted to vehicle ground. The BSC operates the blower by ground side pulse width modulation switching. The positive wire to the blower will always be hot. If the positive wire to the blower is shorted to chassis ground, the blower will run on HI. Replace BSC (This will require removal of evaporator from vehicle). 	 Charge system or bypass pressure switch. Charge system or bypass pressure switch. Check continuity to ground on white control head wire. Check for 5V on red control head wire. Check for 5V on red control head wire. Check 2-pin connector at ECU housing. Check 2-pin connector at ECU housing. 	 ▶ Repair or replace pot/control wiring. ▶ Repair or replace pot/control wiring. ▶ With ignition on. White wire will have continuity to chasis ground. White/ Blue wire should vary
	Checks	Check for damaged pins or Verify that a wires in control head plug. Pins are ber wire (white) in control head wire a switch or potentiometer and associated wiring.	Unplug 3-wire BSC control connector from ECU. If blower shuts off, ECU is either improperly wired or damaged. Check to ensi shorted to ve by ground sic positive wire Unplug 3-wire BSC control the blower wi stays running, BSC is either improperly wired or damaged. Replace BSC	System must be charged for Charge syst compressor to engage. Charge syst Check for faulty A/C potentiometer or associated wiring (not applicable to 3-pot wiring (not applicable to 3-pot controls). Check for 5V Check for disconnected or Check 2-pin faulty thermistor.	Check for faulty A/C potentiometer or associated wiring.
www.vintageair.com	Symptom Condition	1a. Blower stays on high speed when ignition is on.	1b. Blower stays on high speed when ignition is on or off.	ompressor will of turn on and the functions of the functions ork).	3. Compressor will not turn off (All other functions work).

	<u> </u>			
www.vintageair.com	aair.com		Troubleshooting Guide (Cont.)	ide (Cont.)
Symptom	Condition	Checks	Actions	Notes
4.	Works when engine is not running: shuts off when engine is started (typically early Gen IV, but possible on all	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.	versions).	Verify connections on power lead, ignition lead, and both white ground wires.	Check for positive power at heater valve green wire and blower red wire. Check for ground on control head white wire.	greater than 16V will shut down the ECU. Install a radio capacitor at the positive post of the ignition
	Will not turn on under any conditions.	Verify battery voltage is greater than 10 volts and less than 16.	Verify proper meter function by checking the condition of a known good battery.	coll (see radio capacitor installation bulletin). A faulty alternator or worn out battery can also result in this condition.
5. 	No mode change at all.	Check for damaged mode switch or potentiometer and associated wirthor		Typically caused by evaporator housing
function.	Partial function of mode doors.	Check for obstructed or binding mode doors.		Installed in a bind in the vehicle. Be sure all mounting locations line up and don't have to be forced
		motor or wiring.		into position.
6. Blower turns on	Battery voltage is at least	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
and off rapidly.	Battery voltage is less than 12V.	Check for faulty battery or alternator.	→Charge battery.	weak battery can cause Shutdown at up to 11V.
7. Erratic functions of blower, mode, temp, etc.		Check for damaged switch or pot and associated wiring.	▲Repair or replace.	
8. When ignition is turned on, blower momentarily comes on, then shufs off This		This is an indicator that the system has been reset. Be sure the red power wire is on the battery post, and not on a switched source. Also, if the	Run red power wire directly to battery.	
occurs with the blower switch in the OFF position.		system is pulled below 7V for even a split second, the system will reset.		

29

