

1980-86 Ford F-Series/Bronco

with Factory Air Evaporator Kit (754185)



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



Table of Contents

| Cover | 1 |
|----------------------------------------------------------------------------------------|-------|
| Table of Contents | 2 |
| Packing List/Parts Disclaimer | 3 |
| Information Page | 4 |
| Wiring Notice | 5 |
| Engine Compartment Disassembly | 6-7 |
| Passenger Compartment Disassembly, Condenser Assembly & Install, Compressor & Brackets | 8-11 |
| Kick Panel Modification | 12 |
| Dash Louver Adapter Preparation | 13 |
| Control Panel Installation, Lubricating O-rings | 14 |
| Evaporator Preparation | 14-16 |
| Drain Hose Hole Modification | 17 |
| Firewall Cover and Kick Panel Installation | 18-20 |
| Wiring Installation | 21 |
| Evaporator Unit Installation | 22-23 |
| Evaporator Unit Leveling, Passenger Compartment Wiring, A/C Hose Installation | 24-25 |
| Heater Hose & Heater Control Valve Installation | 26-27 |
| Engine Compartment Wiring, Defrost Duct Installation | 28-30 |
| ECU, Control Panel & Duct Hose Routing | 31 |
| Final Steps: Installation Check | 32 |
| Final Steps, Dash Reinstallation, Glove Box Installation | 33 |
| Quality Crimp Guideline | 34 |
| Gen 5 Wiring | 35-36 |
| Operation of Controls | 37 |
| Troubleshooting Guide, Advanced Diagnostics and Troubleshooting Guide | 38-39 |
| Packing List | 40 |

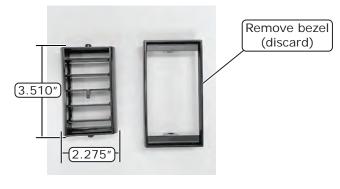
Additional Parts Available:

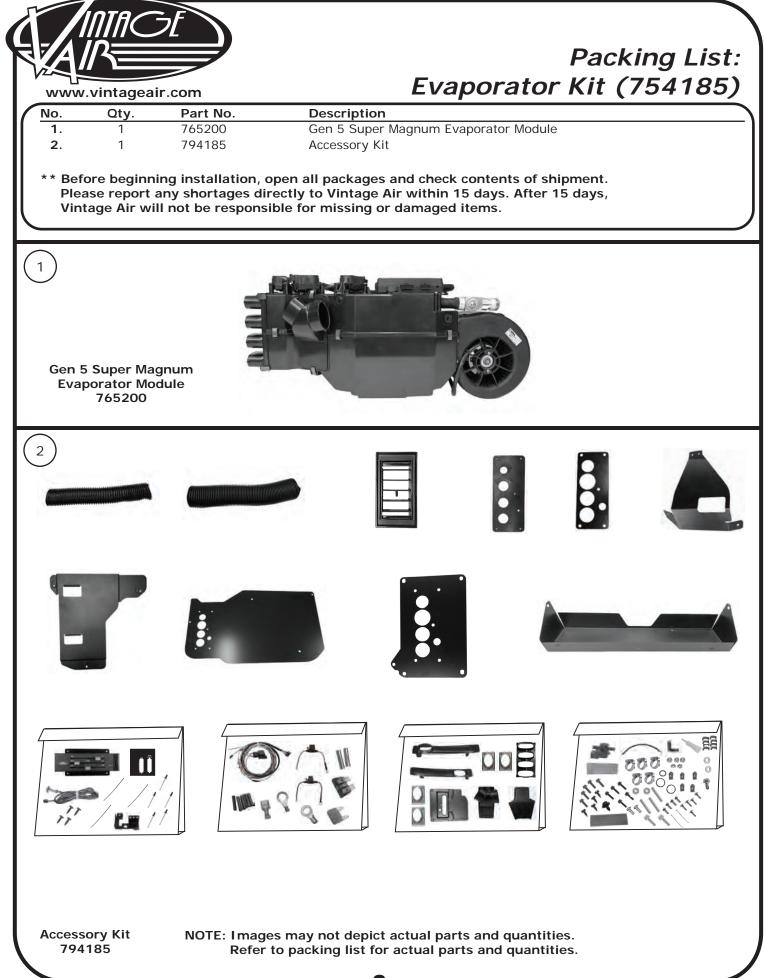
• For replacement OEM louvers, order Vintage Air part #491798. Remove the louver from the bezel, then apply foam to the top and bottom of it to reinforce the louver into the housing. **NOTE: Before ordering new louvers, confirm the louver dimensions, as some trucks may differ.**

2



491798 Louver with Bezel







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.

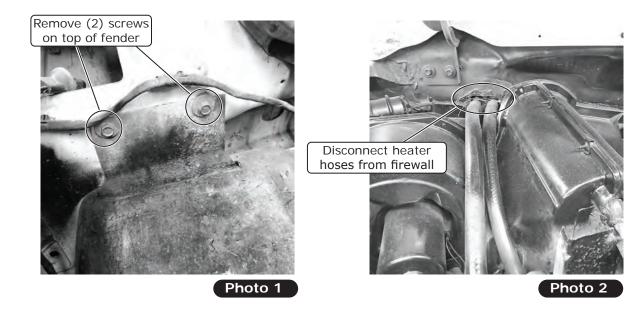


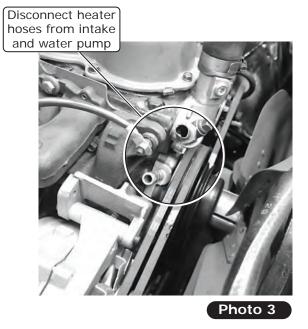
Engine Compartment Disassembly

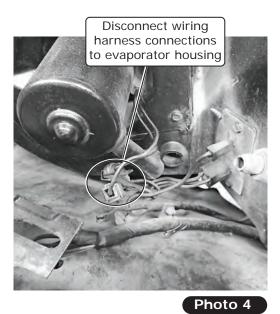
NOTE: Before starting the installation, check the function of the vehicle (horn, lights, etc.) for proper operation, and study the instructions, photos, illustrations, & diagrams. Retain OEM bolts, washers and nuts, as some hardware will be reused.

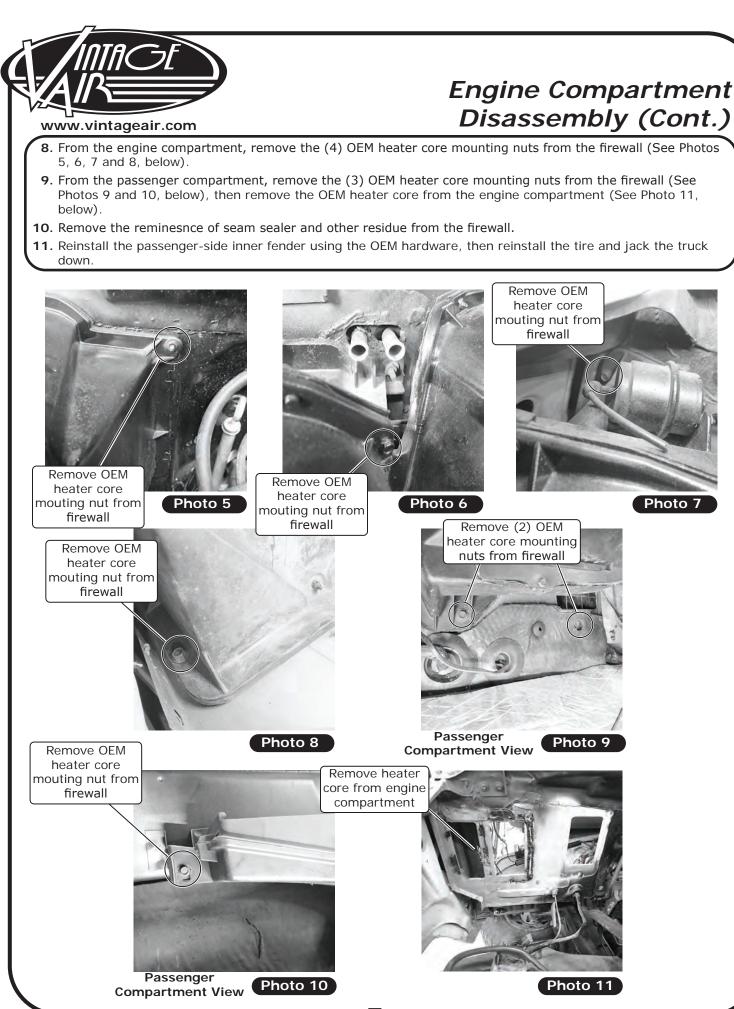
Perform the following:

- 1. Disconnect the battery.
- 2. Evacuate the A/C system (if necessary).
- 3. Drain the radiator.
- **4.** Place a jack stand under the lower arm on the passenger side of the vehicle, then remove the passenger-side front tire. **NOTE: This is necessary to gain access to the OEM heater core mounting hardware.**
- 5. Remove the screws along the inner fender and the (2) screws on the top of the fender (See Photo 1, below).
- 6. Disconnect the heater hoses from the firewall, the intake and the water pump (See Photos 2 and 3, below).
- 7. Disconnect the wiring harness connections to the evaporator housing (See Photo 4, below).











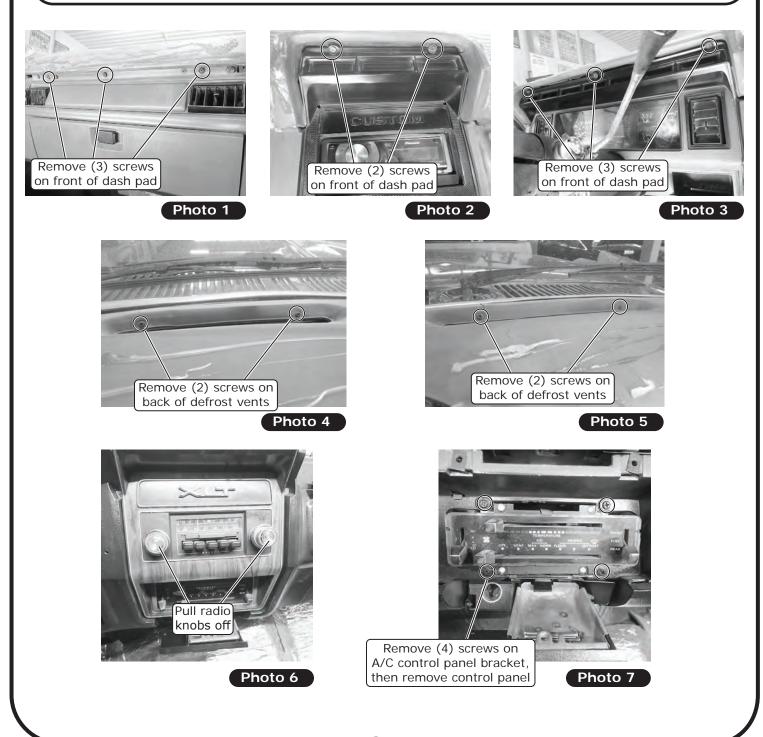
Passenger Compartment Disassembly

NOTE: The removal of the dash is required to remove the OEM duct work from the vehicle. Refer to the vehicle shop manual for more detailed information. Retain the OEM bolts, washers and nuts, as

Perform the following:

some hardware will be reused.

- **1.** Remove the (8) screws on the front of the dash pad (See Photos 1, 2 and 3, below), then remove the (4) screws on the back of the defrost vents (See Photos 4 and 5, below).
- Pull the radio knobs off (See Photo 6, below), then remove the front of the radio bezel. Remove the (4) screws on the A/C control panel bracket, then remove the control panel (See Photo 7, below).

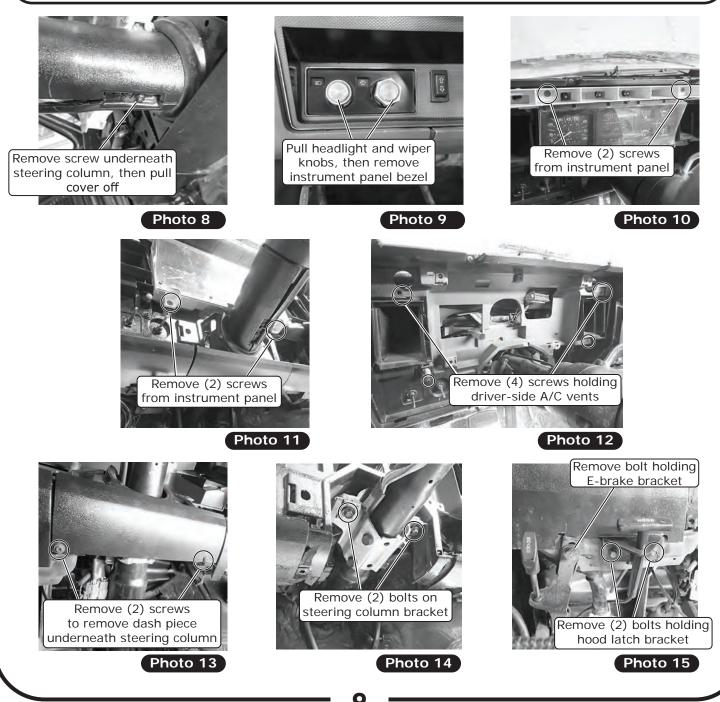


8



Passenger Compartment Disassembly (Cont.)

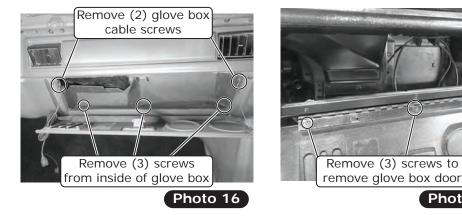
- **3.** Remove the screw underneath the steering column (See Photo 8, below), then pull the cover off. Remove the screw holding the shift cable, so the selector is just being held in the instrument cluster. Pull the headlight and wiper knobs (See Photo 9, below), then remove the instrument panel bezel. Remove the (4) screws from the instrument panel, then remove it (See Photos 10 and 11, below).
- **4.** Undo the headlight and wiper switch, then unclip the light above them. Push the light behind the dash, then remove the (4) screws holding the driver-side A/C vents (See Photo 12, below).
- 5. Remove the dash piece underneath the steering column by removing the (2) screws (See Photo 13, below). Remove the (2) bolts on the steering column bracket (See Photo 14, below), then remove the bolt directly above the steering column.
- Remove the bolt holding the emergency brake and the (2) bolts holding the hood latch bracket (See Photo 15, below).

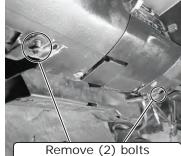




Passenger Compartment Disassembly (Cont.)

- 7. Remove the (3) screws from inside the glove box and the (2) glove box cable screws (See Photo 16, below), then the (3) screws to remove the glove box door (See Photo 17, below).
- 8. Remove the (2) bolts underneath the dash in the middle (See Photo 18, below) and the bolt holding the dash to the firewall (See Photo 19, below). Remove the (2) bolts on the top of the dash, near the windshield on the driver and passenger side (See Photos 20 and 21, below). Remove the (2) bolts in the middle, above the radio (See Photo 22, below), then remove the (2) bolts on either side, underneath the dash (See Photos 23 and 24, below).





underneath dash in middle

Photo 18

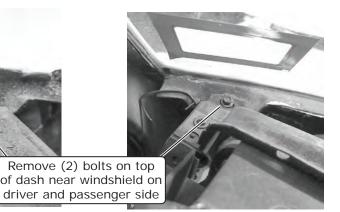




Photo 17

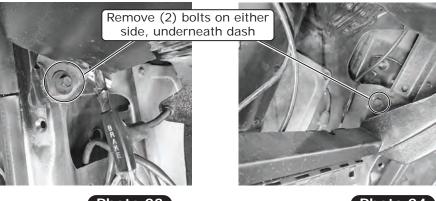




Photo 21



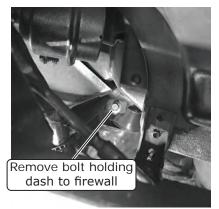


Photo 19

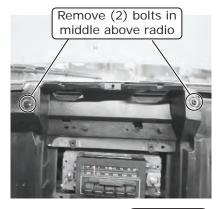
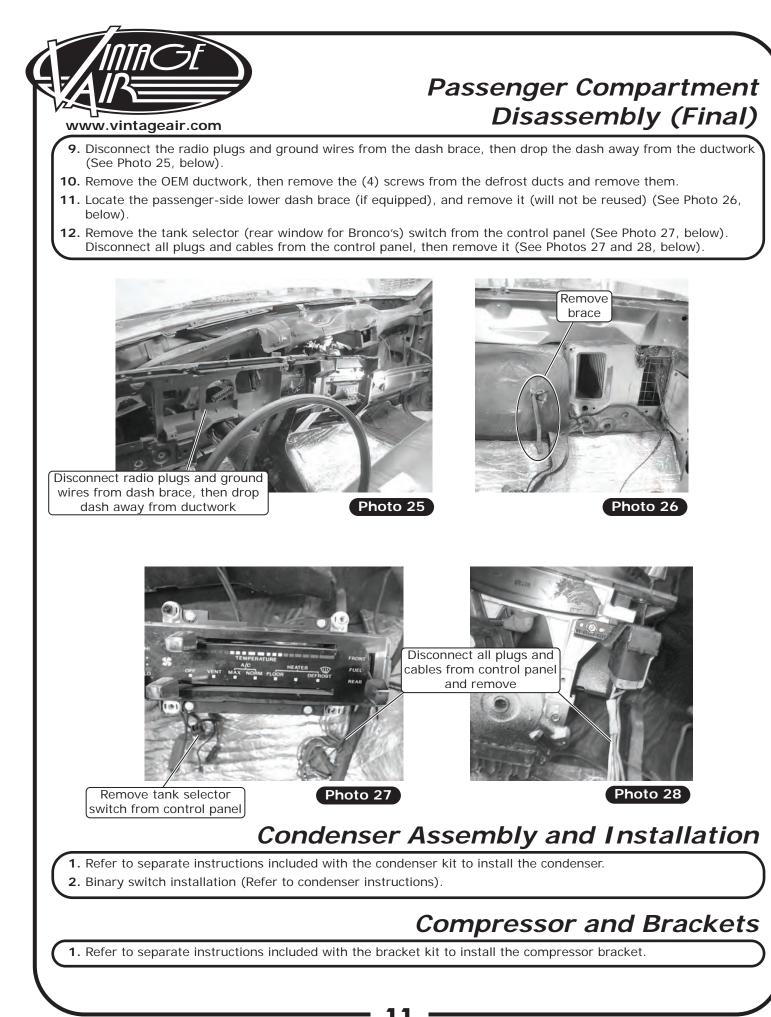


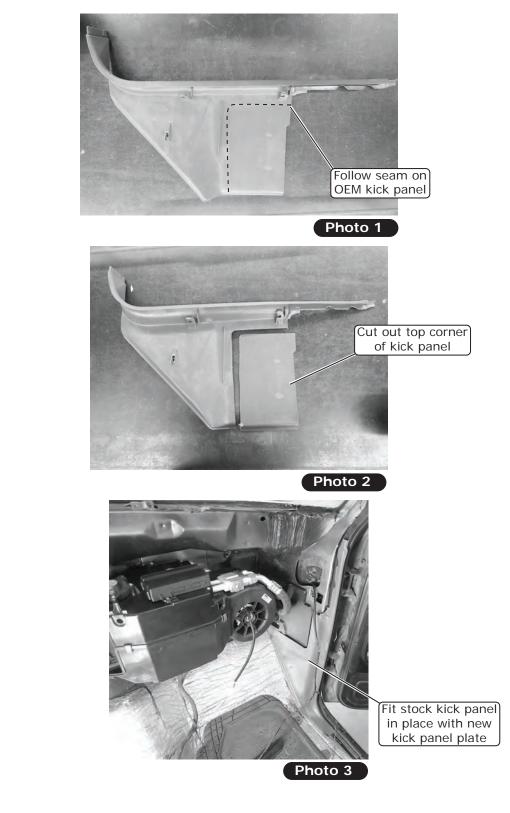
Photo 22

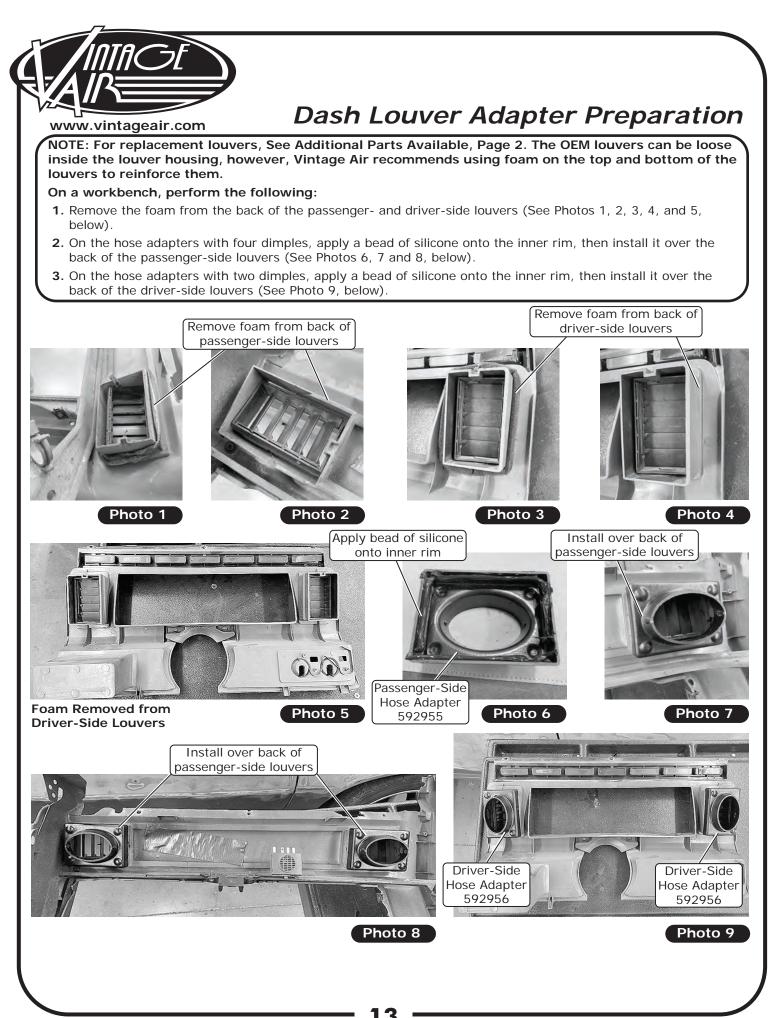


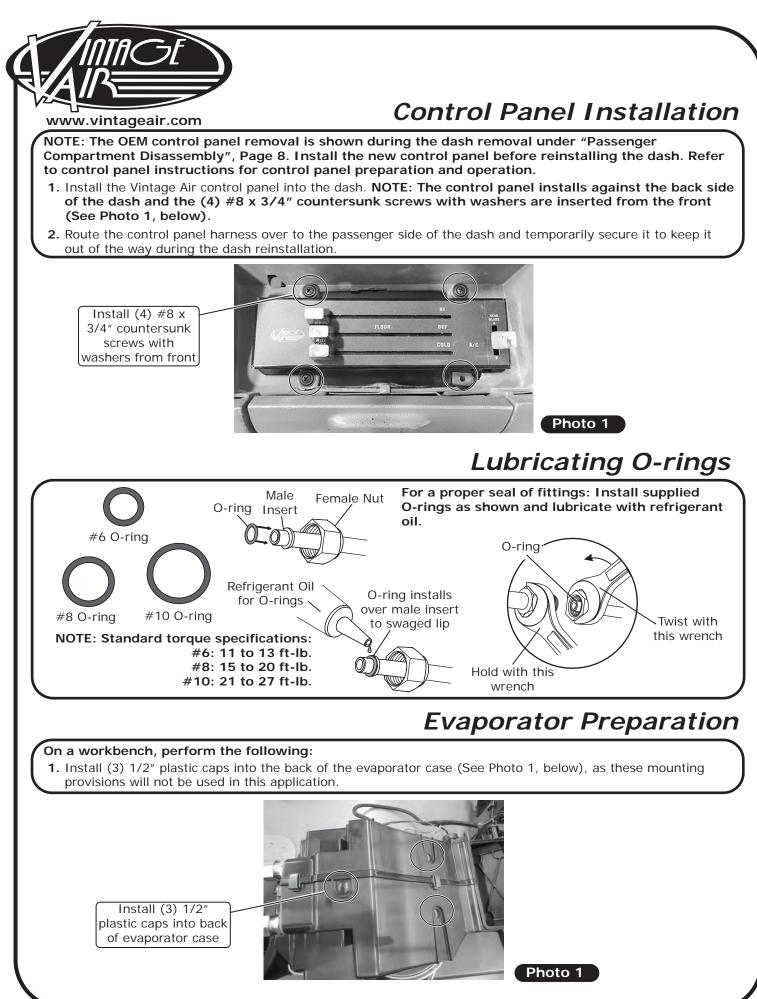


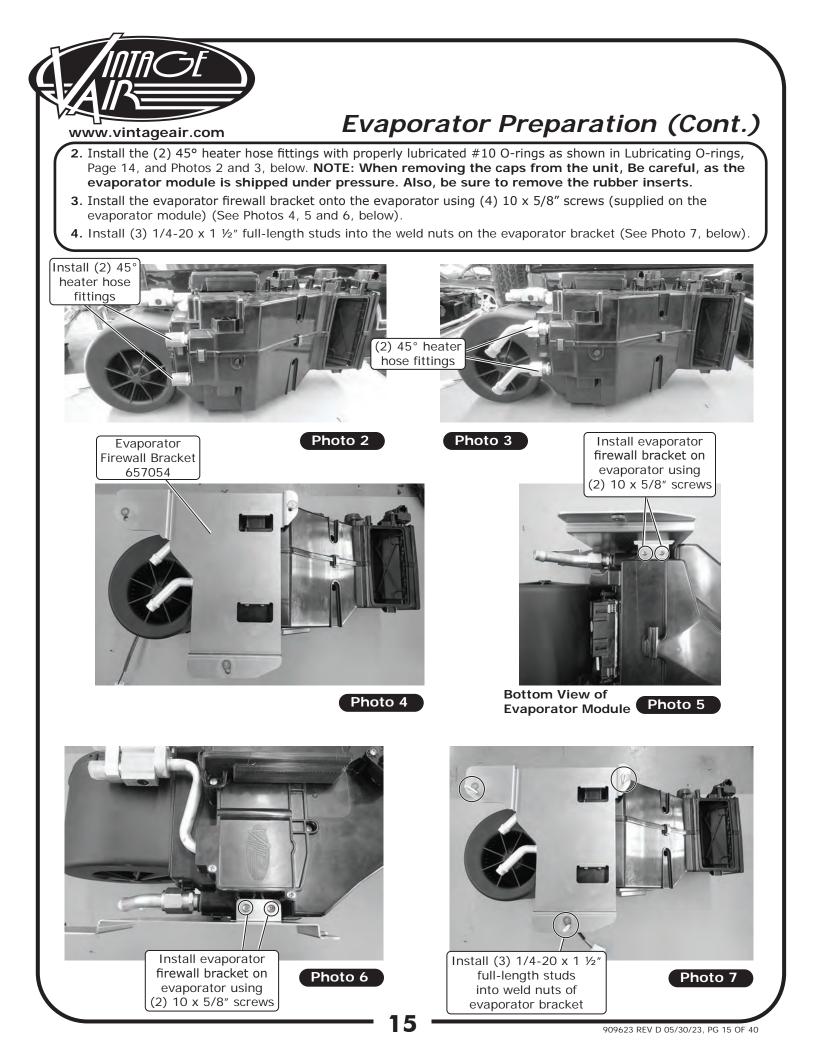
Kick Panel Modification

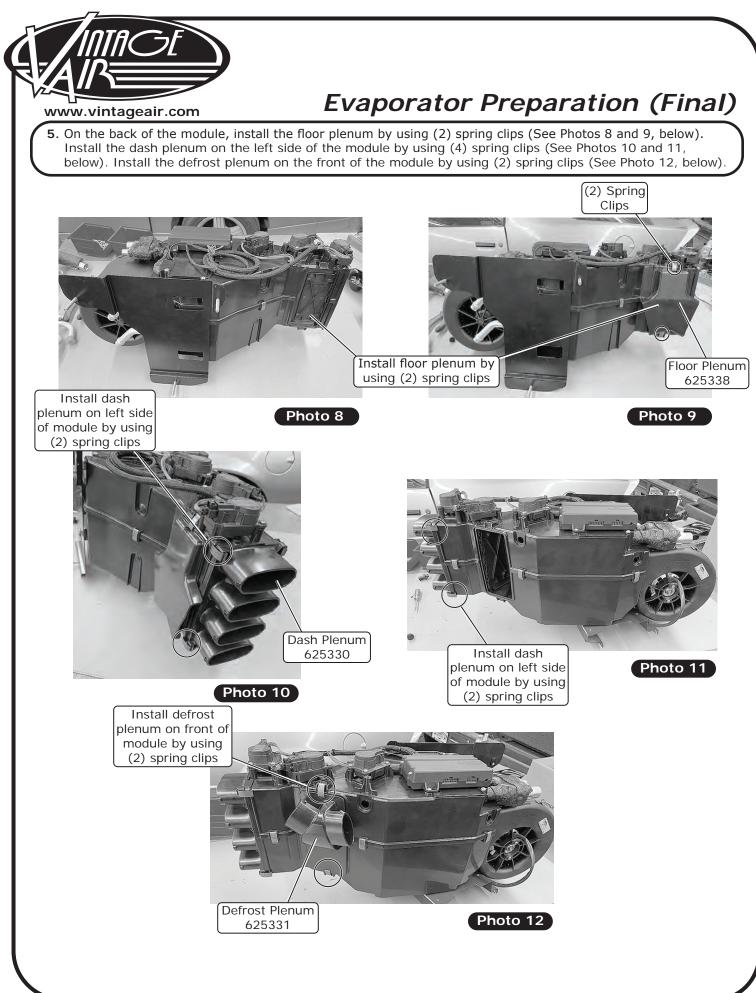
 Follow the seam on the OEM kick panel. Cut out the top corner of the kick panel to allow it to fit in place with the new kick panel plate (See Photos 1, 2 and 3, below). NOTE: Photo 3, below, shows how the new kick panel will mount back into the truck.













Drain Hose Hole Modification

- 1. Pull back the carpet to gain access to where the firewall meets the floorboard.
- 2. Measure over 1" from the factory wiring grommet. Mark an area on the firewall insulation 1" wide and $1 \frac{1}{2}$ " up from the intersection for the floorboard and the firewall. Cut out and remove the insulation in this area.
- **3.** Centered in the cutout section of the insulation, mark a spot on the horizontal portion of the floorboard, halfway between the firewall and the bend down of the floorboard. Drill a 5/8" hole for the drain hose (See Photo 1, below). **NOTE: To ensure a tight fit for the drain tube, do not enlarge the drain hole larger than 5/8"**.

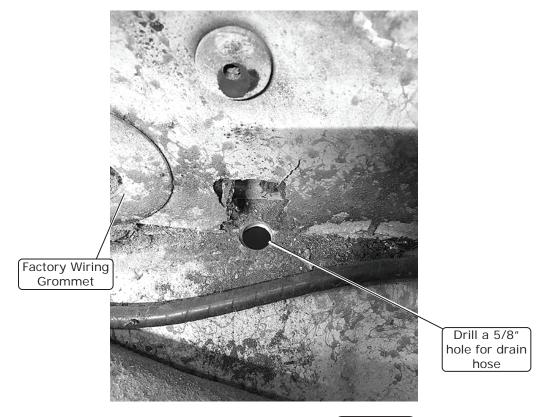


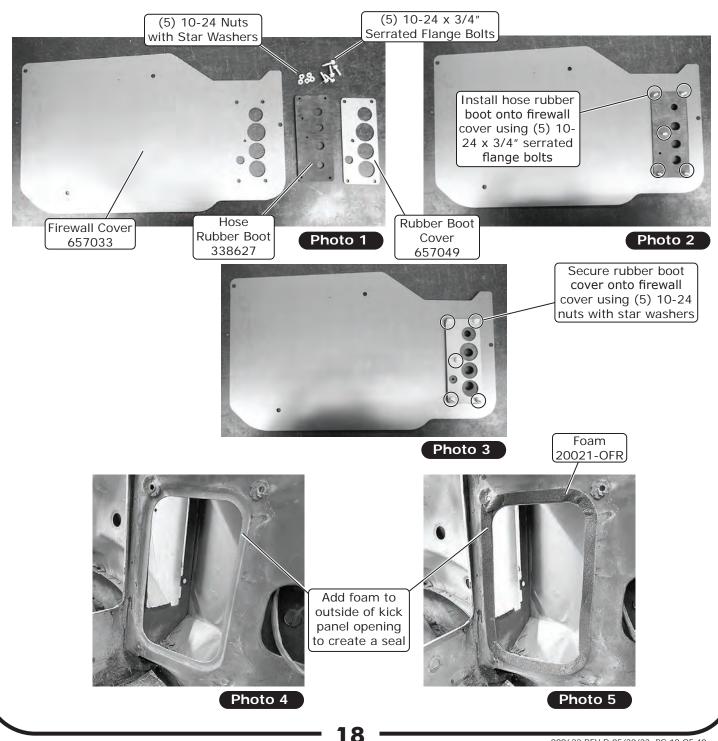
Photo 1

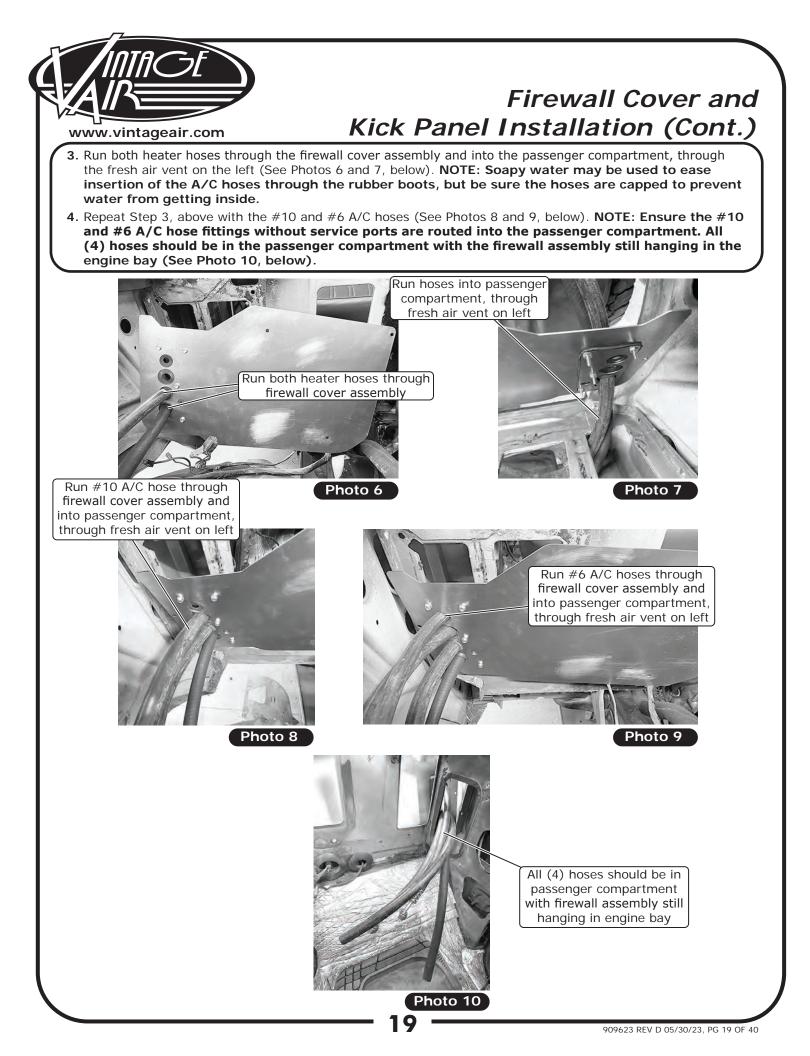


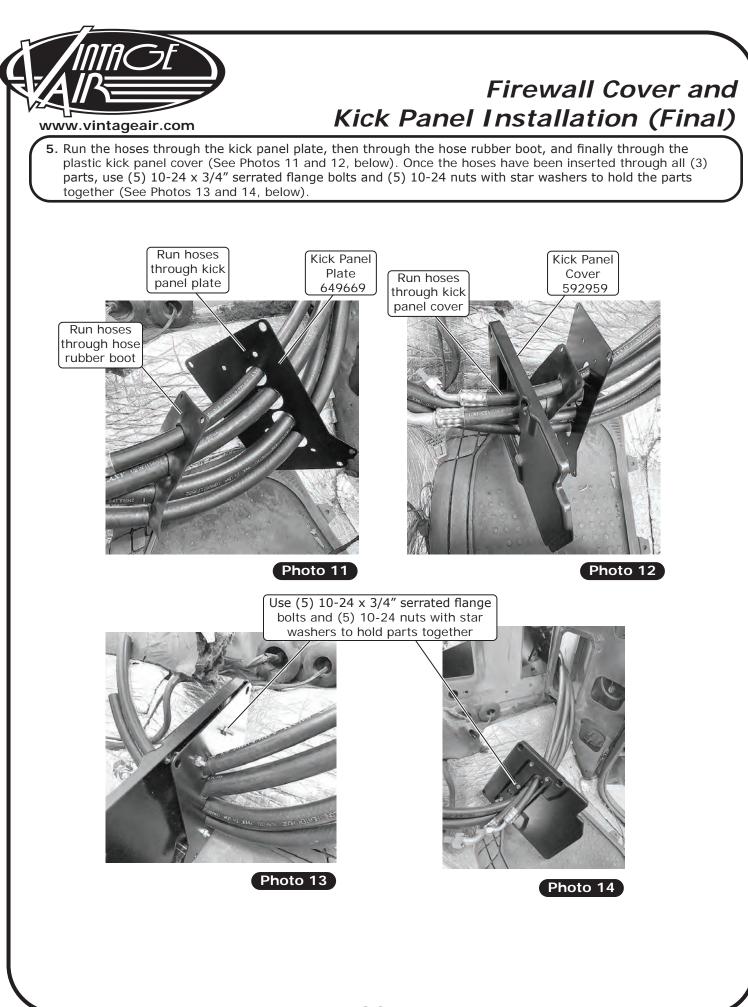
NOTE: To ensure a watertight seal between the passenger compartment and the vehicle exterior, for all bolts passing through the firewall, Vintage Air recommends coating the threads with silicone prior to installation.

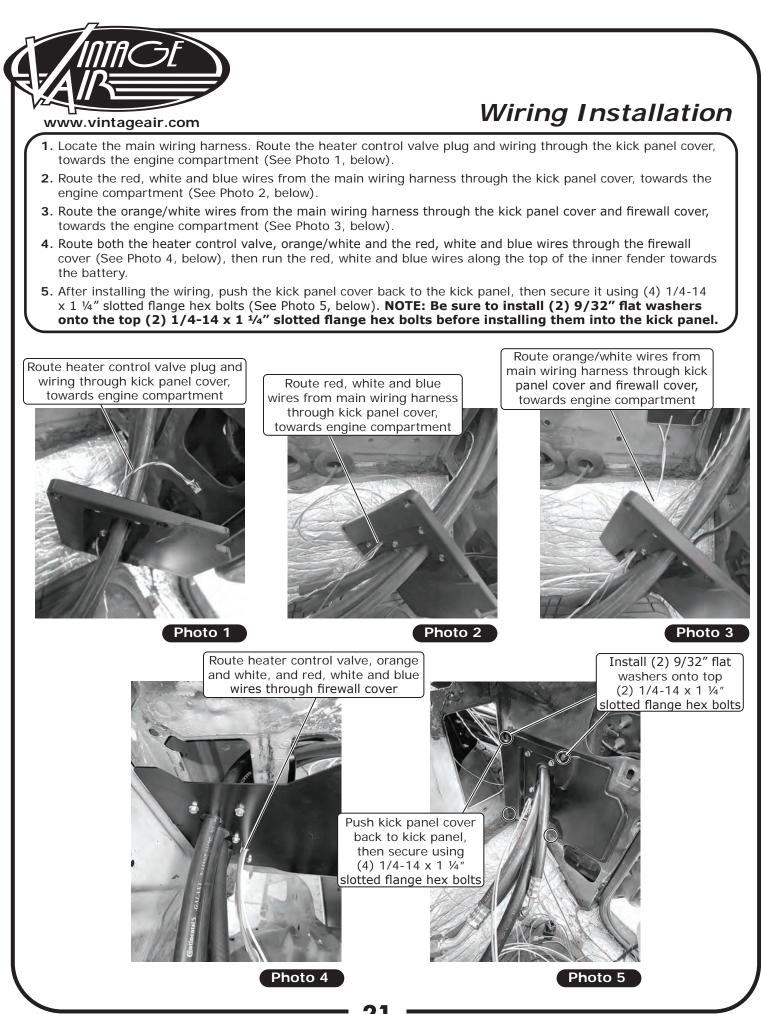
- Install the hose rubber boot and the rubber boot cover onto the firewall cover using (5) 10-24 nuts with star washers and (5) 10-24 x 3/4" serrated flange bolts (See Photos 1, 2 and 3, below). NOTE: Ensure the hose rubber boot and rubber boot cover are installed on the correct side of the firewall cover as shown in Photo 2, below.
- 2. Add foam to the outside of the kick panel opening to create a seal (See Photos 4 and 5, below).

www.vintageair.com







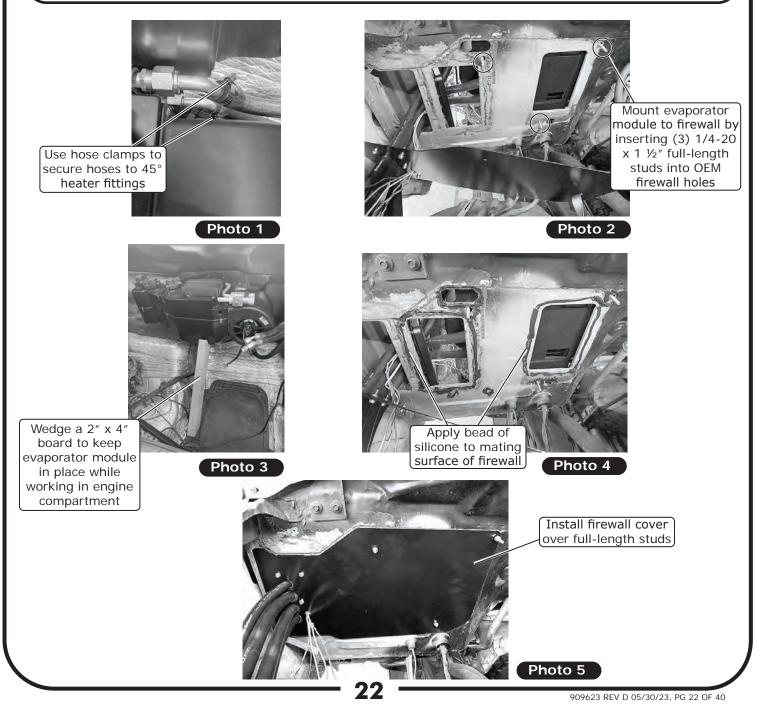




Evaporator Unit Installation

NOTE: The holes in the firewall may need to be drilled out to 5/16'' to ease the installation of the evaporator module. A 2'' x 4'' board cut to approximately 16 $\frac{1}{2}''$ to 17'' may be used between the firewall and the dash to provide space to install the evaporator module.

- With the unit on the floorboard, attach the heater hoses to the 45° heater fittings on the back of the evaporator module. Run the hose coming out of the bottom of the kick panel to the bottom fitting and the one above it to the top fitting. Use hose clamps to secure the hoses to the fittings (See Photo 1, below).
- 2. Mount the evaporator module to the firewall by inserting the (3) 1/4-20 x 1 ½" full-length studs into the OEM firewall holes (See Photo 2, below). Wedge a 2" x 4" board to keep the evaporator module in place while working in the engine compartment (See Photo 3, below). NOTE: When wedging the board into place, be sure not the hit and damage the evaporator drain located underneath the unit.
- **3.** Apply a bead of silicone onto the mating surface of the firewall, then install the firewall cover over the full-length studs (See Photos 4 and 5, below).





Attach #6 and #10 A/C hoses with properly lubricated O-rings onto expansion valve on top of evaporator module



Photo 10

A/C Hoses Installed

Second install #10 A/C hose Photo 11 Wrap #10 A/C hose fitting separately with Photo 12

press tape

Photo 9

toward firewall

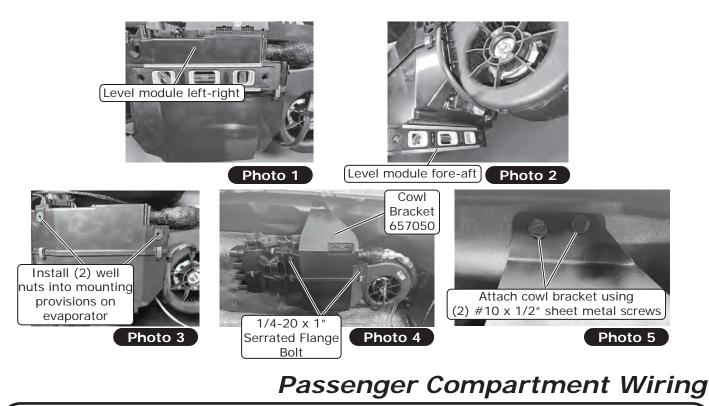
First install

#6 A/C hose

Evaporator Unit Leveling

NOTE: To ensure proper drainage, it is very important the evaporator is level, both fore-aft and leftright. Before leveling the evaporator, ensure the vehicle is level. Check for level on the flat portions of the case around the drain (See Photos 1 and 2, below).

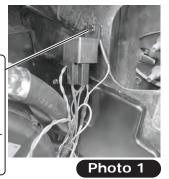
- 1. Once the unit has been leveled, install (2) well nuts into the mounting provisions on the evaporator module (See Photo 3, below).
- Install the cowl bracket using (2) 1/4-20 x 1" serrated flange bolts on the front of the evaporator module and (2) #10 x 1/2" sheet metal screws on top of the cowl (See Photos 4 and 5, below). NOTE: Drill 11/64" pilot holes for the sheet metal screws.
- 3. Tighten all mounting hardware at this time ((3) firewall mounting bolts and (2) dash bracket mounting bolts).



- **1.** Install the main wiring harness relay and white ground wire eyelet from the heater control valve harness above the kick panel cover using a #10 x 1/2" sheet metal screw (See Photo 1, below).
- 2. Route the violet power wire to a switched 12v power source on the fuse panel. NOTE: This requires a male fuse extension (not supplied).
- 3. Connet the tan wire to the factory dash lights to enable control panel backlighting.
- 4. Connect the BSC (Blower Speed Control) wiring to the main harness (See Photo 2, below).

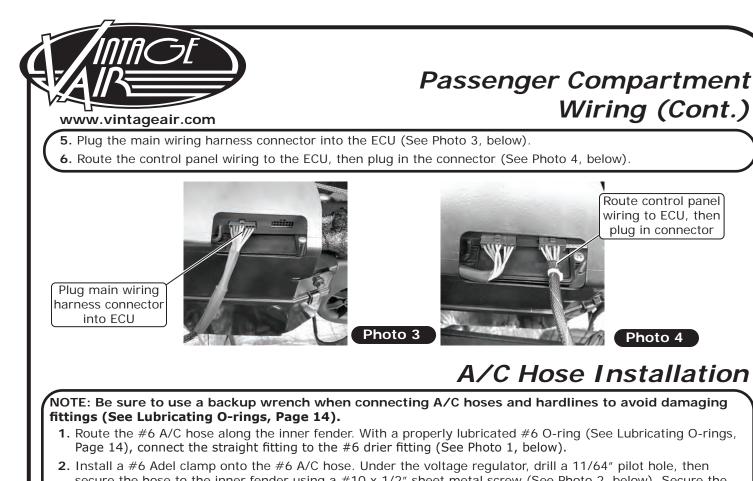
Install main wiring harness relay and white ground wire eyelet from heater control valve harness above kick panel cover using a #10 x 1/2" sheet metal screw

www.vintageair.com

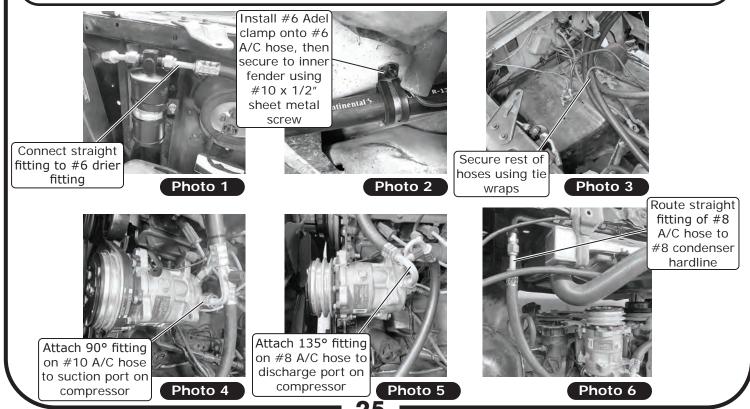




Connect BSC wiring to main harness



- secure the hose to the inner fender using a #10 x 1/2" sheet metal screw (See Photo 2, below). Secure the rest of the hoses using tie wraps (See Photo 3, below).
- With a properly lubricated #10 O-ring (See Lubricating O-rings, Page 14), attach the 90° fitting on the #10 A/C hose to the suction port on the compressor (See Photo 4, below).
- 4. With a properly lubricated #8 O-ring (See Lubricating O-rings, Page 14), attach the 135° fitting on the #8 A/C hose to the discharge port on the compressor (See Photo 5, below).
- **5.** Route the straight fitting of the #8 A/C hose to the condenser. With a properly lubricated #8 O-ring (See Lubricating O-rings, Page 14), attach the fitting to the #8 condenser hardline (See Photo 6, below).



909623 REV D 05/30/23, PG 25 OF 40



www.vintageair.com

Heater Hose <u>& Heater Control Valve Installation</u>

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

- 1. Cut the upper heater hose approximately 4" or 5" from the firewall cover and install the heater control valve. Secure it with the supplied hose clamp. NOTE: Ensure proper flow direction through the heater control valve. The flow direction follows the molded arrow on the valve. The arrow should be pointing towards the firewall.
- 2. Install another length of heater hose from the heater control valve to the intake manifold, then secure it with hose clamps (See Photos 1 and 2, below).
- **3.** Plug the heater control valve connector into the heater control valve connector wiring harness (See Photo 3, below).

Install another length of heater hose from heater control valve to intake manifiold, then secure with hose clamps

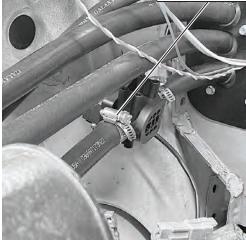


Photo 1

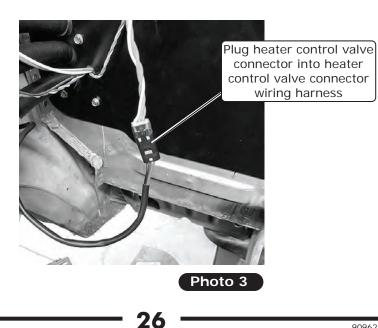
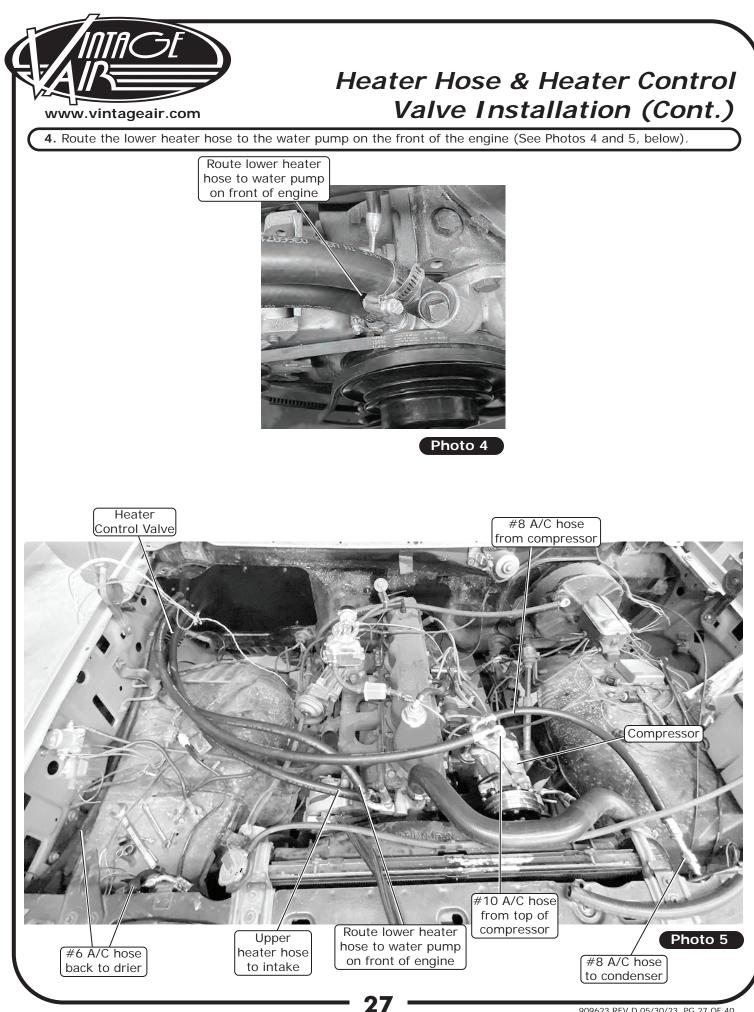


Photo 2

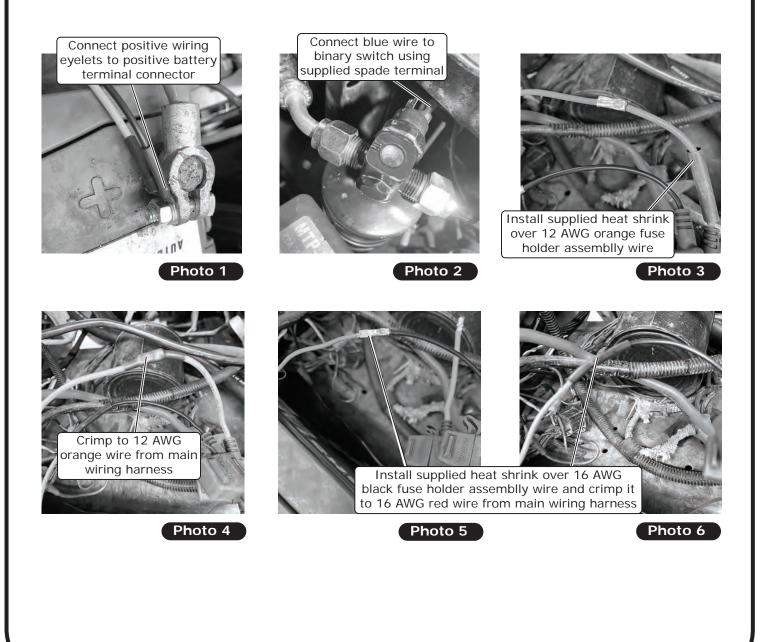


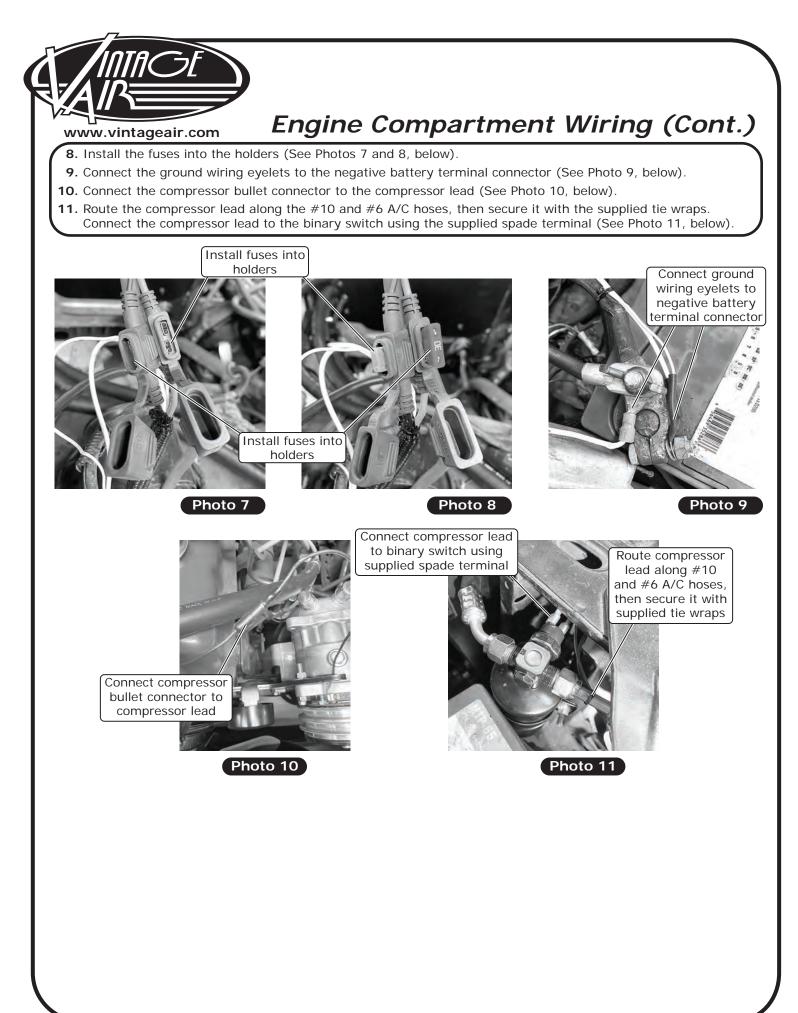


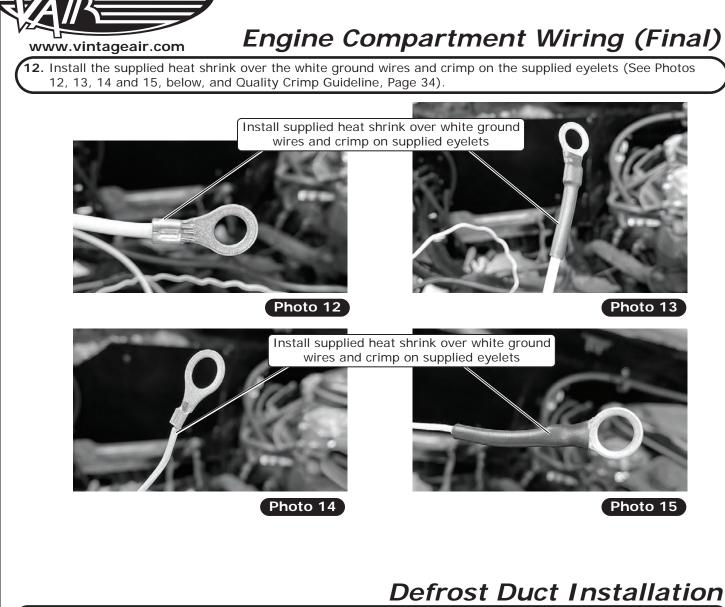
Engine Compartment Wiring

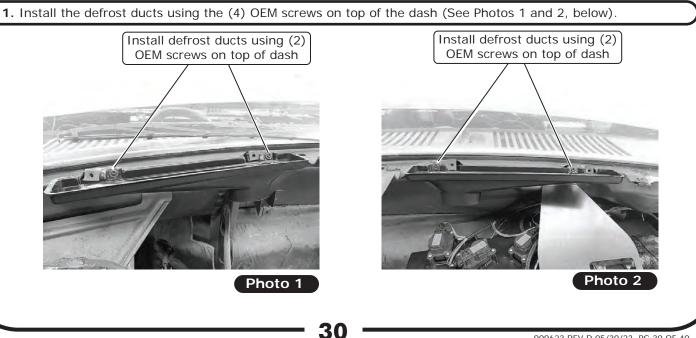
NOTE: Cut wires to lengths as necessary. Do not connect the power until the installation is complete.

- 1. Reinstall the battery.
- **2**. Starting at the firewall, run the flexo sleeve over the wires.
- **3.** Route the power and ground wires along the #6 A/C hose, toward the battery.
- 4. Connect the positive wiring eyelets to the positive battery terminal connector (See Photo 1, below).
- 5. Connect the blue wire to the binary switch using the supplied spade terminal (See Photo 2, below).
- **6.** 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 Photos 3 and 4, below, and Quality Crimp Guideline, Page 34).
- **7.** 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 Photos 5 and 6, below), and Quality Crimp Guideline, Page 34).







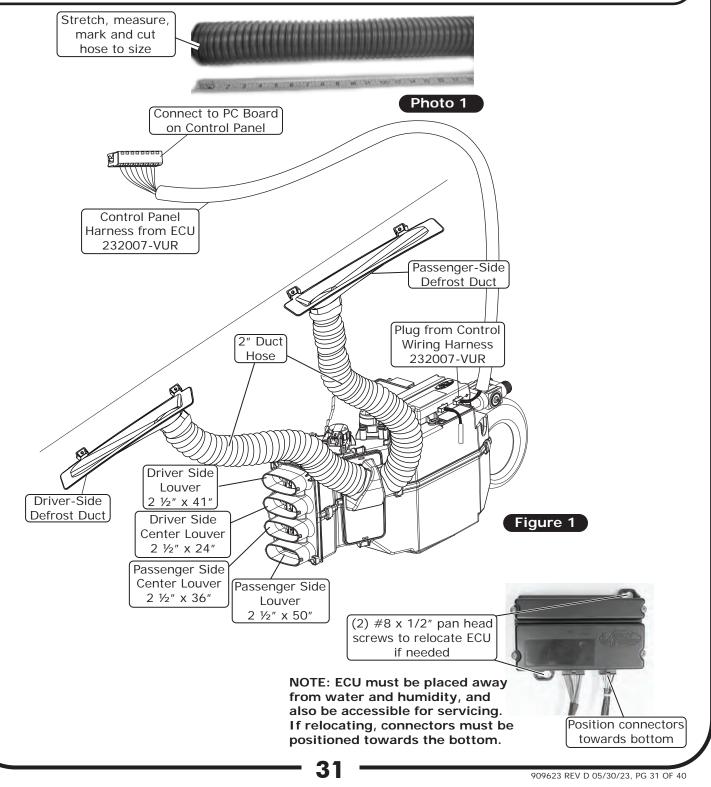




ECU, Control Panel & Duct Hose Routing

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

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





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. |
| | | Set the blower speed control to OFF , confirm that the blower is off. |
| | Blower speed control | Blower speed control Position the blower speed control to LOW then MEDIUM and then HIGH. <i>At each setting confirm that the blower</i> <u>speed increases</u> , do this by feeling for the amount of air coming from the unit and hearing the blower speed increase. |
| | Mode control | Set the MODE control to the DASH position. <u>Confirm that air is being blown at the dash vents.</u> Set the MODE control to the FLOOR position. <u>Confirm that air is being blown at the floor vents.</u> Set the MODE control to the DEFROST position. <u>Confirm that all air is being blown from the defrost vents</u> |
| | | If heater lines are installed: Set the MODE control to the DASH position. Set the TEMP control to the MAX HEAT position. <i>Confirm that HOT</i> <i>air is coming from the dash vents.</i> |
| | Temperature control If sy Set t | If system is charged: Set the TEMP control to the MAX COOL position. <i>Confirm that <u>COLD</u> air is coming from the dash vents.</i> |
| | | Also <i>confirm that the compressor "clicks" on</i> 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>co<i>nfirm that the AC</i> panel's legend is lit</u> . |
| | Fittings | Verify AC and Heater fittings are all tight. |
| | | |



www.vintageair.com

1. Reinstall all previously removed items.

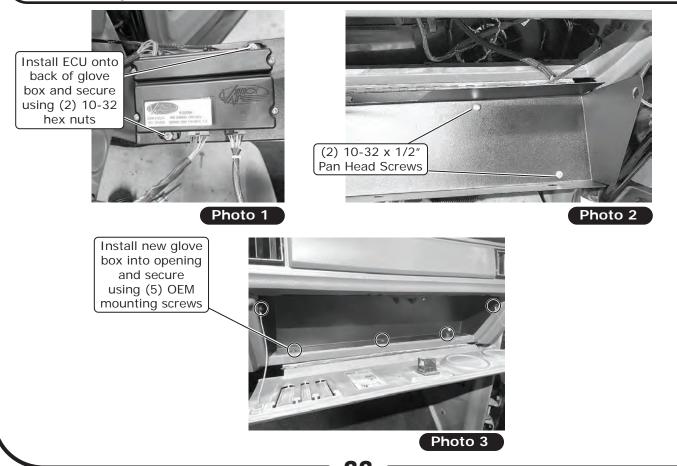
- 2. Fill radiator with at least a 50/50 mixture of approved antifreeze and distilled water. It is the owner's responsibility to keep the freeze protection at the proper level for the climate in which the vehicle is operated. Failure to follow antifreeze recommendations will cause heater core to corrode prematurely and possibly burst in A/C mode and/or freezing weather, voiding your warranty.
- **3**. Double check all fittings, brackets and belts for tightness.
- 4. Vintage Air recommends that all A/C systems be serviced by a licensed automotive A/C technician.
- **5.** Evacuate the system for a minimum of 45 minutes prior to charging, and perform a leak check prior to servicing.
- 6. Charge the system to the capacities stated on Page 4 of this instruction manual.
- 7. See Operation of Controls procedures on Page 37.

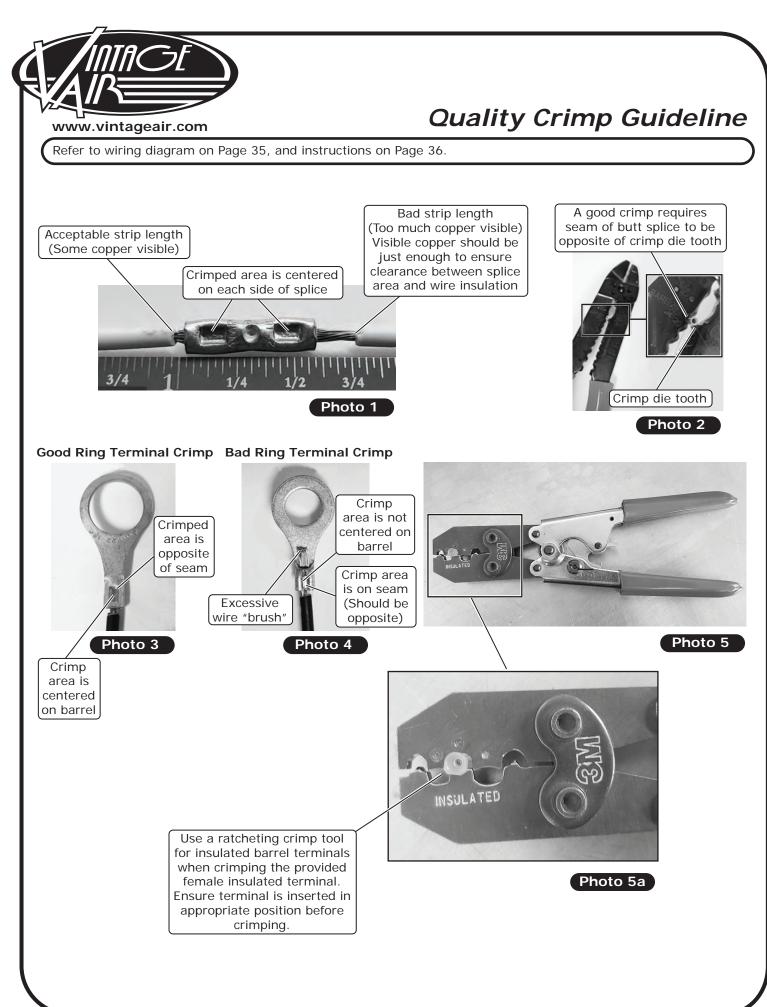
Dash Reinstallation

 Reinstall the dash, connecting the (2) passenger-side duct hoses to the hose adapters. Guide the (2) driverside duct hoses to the holes for the hose adapters. Next, reinstall the instrument cluster and the instrument cluster bezel. When installing the bezel, connect the hoses to the hose adapters that were previously glued on.

Glove Box Installation

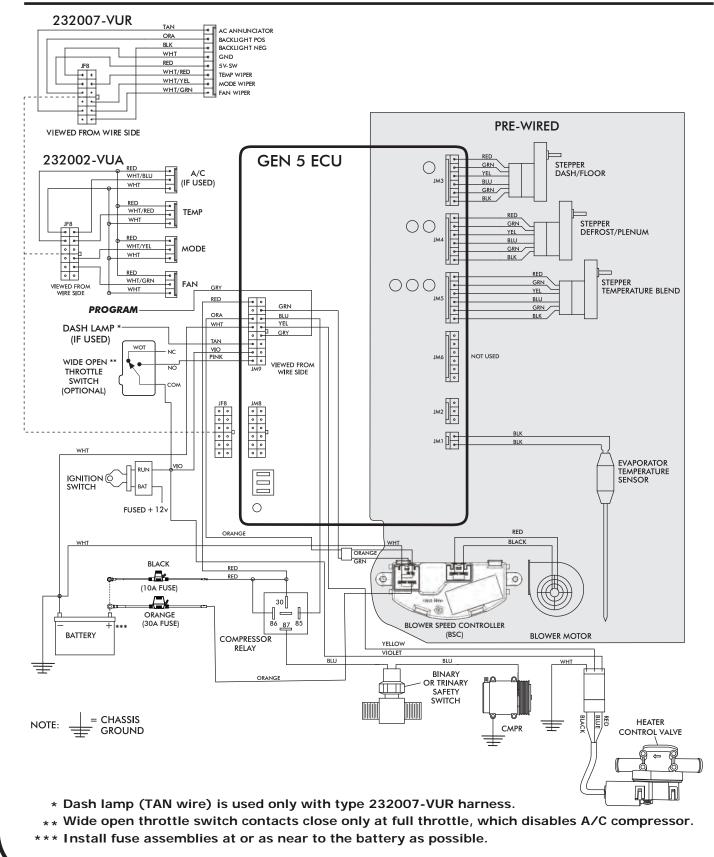
- Install the ECU onto the back of the glove box, with the connectors facing down, and secure it using (2) 10-32 x 1/2" pan head screws and (2) 10-32 hex nuts (See Photos 1 and 2, below).
- 2. Install the new glove box into the opening and secure it using the (5) OEM mounting screws (See Photo 3, below).
- 3. Reinstall the glove box door.



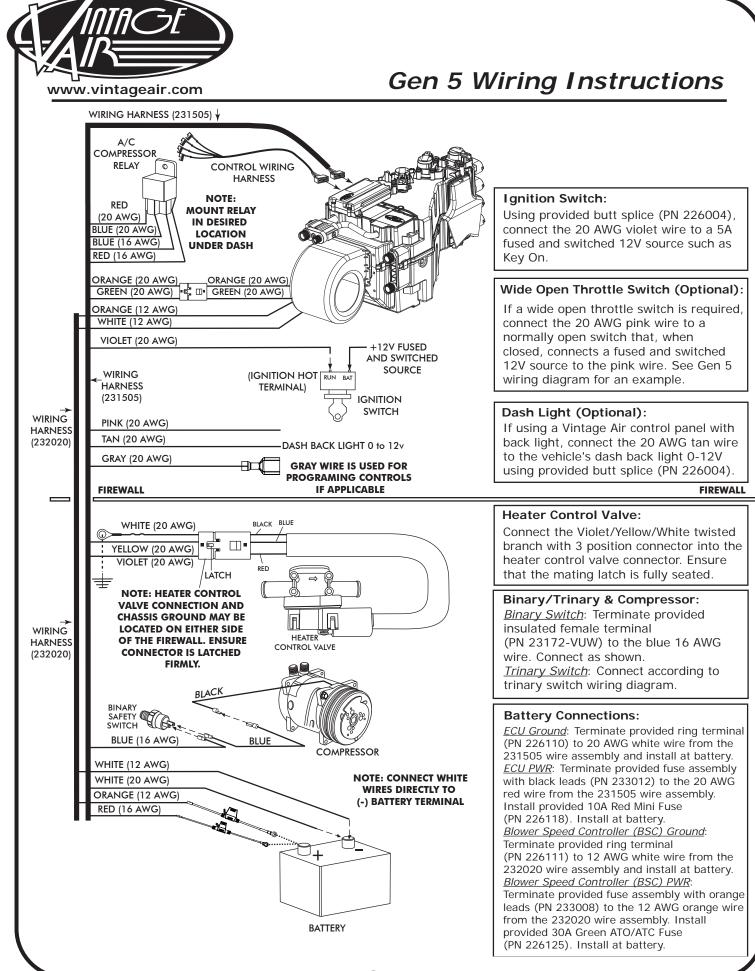




Gen 5 Wiring Diagram



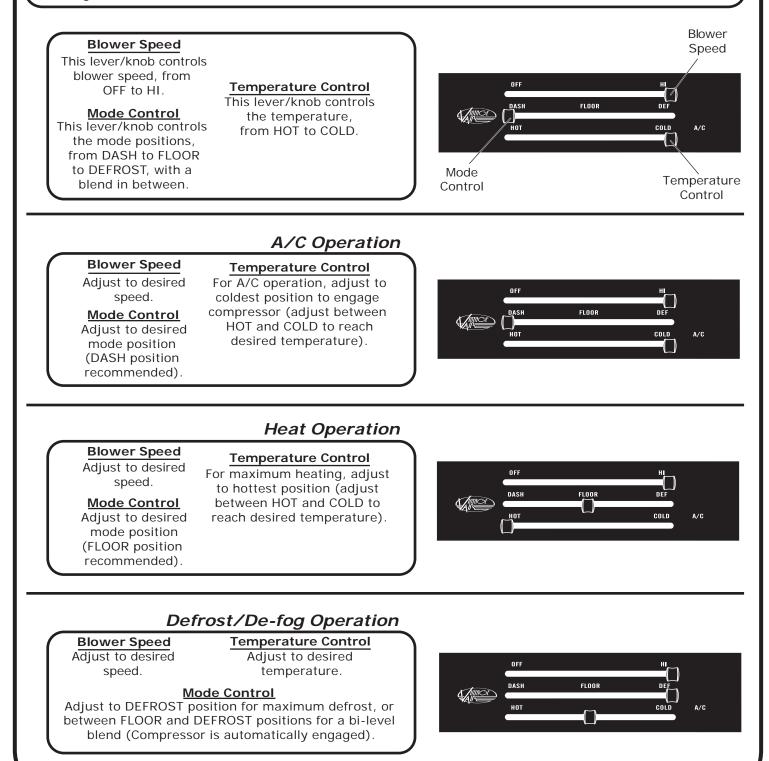
35





Operation of Controls

On 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.



www.vintageair.com

Troubleshooting Guide

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

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

| Symptom | Condition | Checks | Actions | Notes |
|------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Riower stave on | 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. | |
| high speed with ignition on. | | Check for a bad ECU GND. Check for damaged pins or | If found damaged. replace wire assembly or ECU. | |
| | All other functions work. | wires in the control panel wire assembly and mating header at 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. | 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 lever is moved up or down. |

| (too) onido | | NOTES | | | cking the condition of out battery can also result in this condition. | | ver connections are 10V. Poor connections or weak battery can cause shutdown at up to 11V. | | Diagnostics and Troubleshooting Guide | Access the latest version of the Advanced Diagnostics and Troubleshooting Guide by scanning the following OR code on your mobile device: | | You can also access the guide by typing the following address into your web browser: https://www.vintageair.com/instructions_pdf/905000_pdf |
|--------------|--------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Troibleb | | Actions | 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. | Check for power at ECU, and confirm ignition is being applied to ECU properly. | Verify proper meter function by checking the condition of a known good battery. | p | Ensure all system grounds and power connections are clean and tight. | ch or →Repair or replace. | gnostics and Tro | Access the latest version Troubleshooting Guide by mobile device: | | You can also access the gr your web browser: https://www.vintageair.co |
| | | Cnecks | Noise interference from either ignition or alternator. | Verify connections on power lead, ignition lead, and both white ground wires. | Verify battery voltage is areater than 10 volts and less than 16 while engine is running. | Check for damaged mode switch or potentiometer and associated wiring. | Check for at least 12V at circuit breaker. Check for faulty battery or alternator. | Check for damaged switch or pot and associated wiring. | Advanced Dia | If after referencing the Troubleshooting Guide, the issue is not resolved, move to The Advanced Diagnostics and Troubleshooting Guide that covers the following: • ECU Diagnostics Codes | ¢) | ooting Guidelines |
| 5 | jeair.com | Condition | Works when engine is not running: shuts off when engine is started | | will not turn on under any conditions. | or →No mode change at all. | Battery voltage is at least 12V. Battery voltage is less than 12V. | ions of e | A | If after referencing the Troubleshooting Guide, the issue is not resolved, move to The Advanced Diagnostics and Troubleshoot Guide that covers the following: • ECU Diagnostics Codes | ECU Blink Sequence Firmware Version Number ECU Model Number ECU Start-Up Blink Sequence Diagnostic Codes | complete Advanced Troubleshooting Guideli |
| | www.vintageair.com | symptom | 4. Svetom will not | intermittently. | | 5. Loss of mode door function. | 6 . Blower turns on and off rapidly. | Erratic functions of blower, mode, temp, etc. | | If after refures of the test of te | 1. ECU 2. Firm 3. ECU 4. ECU 5. Diag | • Compl |

39

