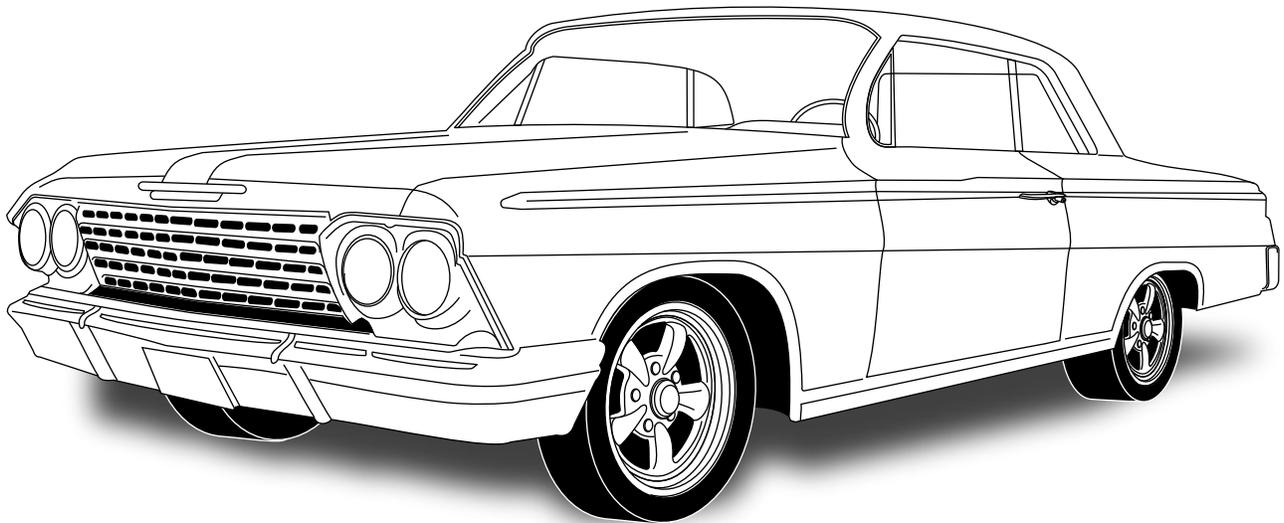




an ISO 9001:2015 Registered Company

1961-62 Chevrolet Impala

without Factory Air
Evaporator Kit
(561062)



18865 Goll St. San Antonio, TX 78266

Phone: 800-862-6658

Sales: sales@vintageair.com

Tech Support: tech@vintageair.com

www.vintageair.com



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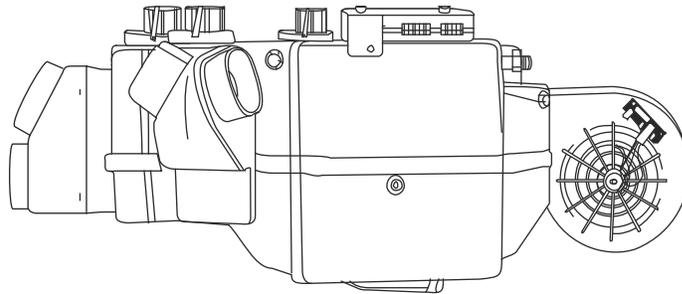
Packing List: Evaporator Kit (561062)

No.	Qty.	Part No.	Description
1.	1	744044-VUE	Gen IV Evaporator Sub Case
2.	1	784061	Accessory Kit

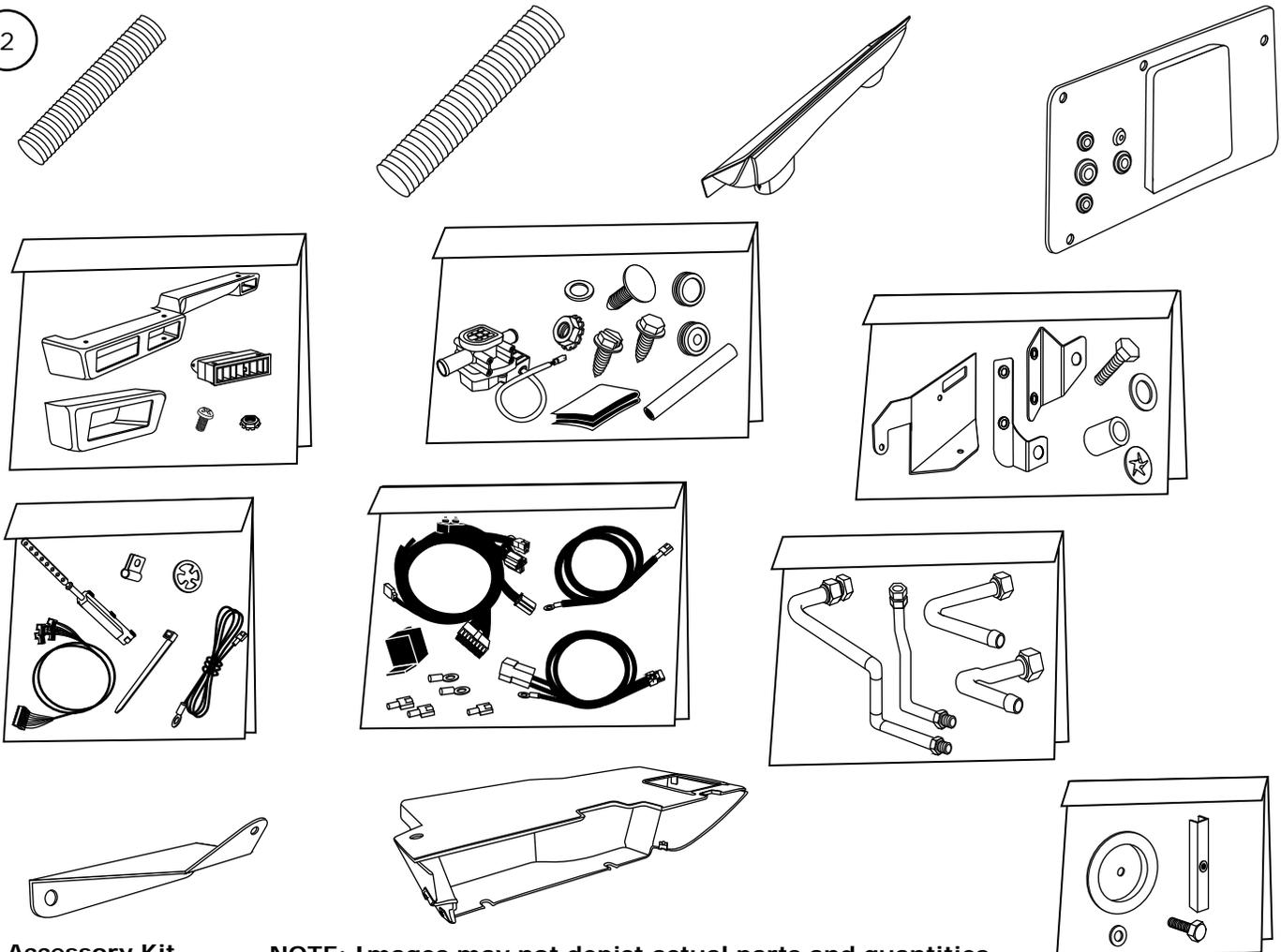
**** Before beginning installation, open all packages and check contents of shipment. Please report any shortages directly to Vintage Air within 15 days. After 15 days, Vintage Air will not be responsible for missing or damaged items.**

1

Gen IV Evaporator
Sub Case
744044-VUE



2



Accessory Kit
784061

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



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Important Notice—Please Read

For Maximum System Performance, Vintage Air Recommends the Following:

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

Refrigerant Capacities:

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

Other Systems: Consult manufacturer's guidelines.

Lubricant Capacities:

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

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

Safety Switches

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

Service Info:

Protect Your Investment: Prior to assembly, it is critical that the compressor, evaporator, A/C hoses and fittings, hardlines, condenser and receiver/drier remained 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.



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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, 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, 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, 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.



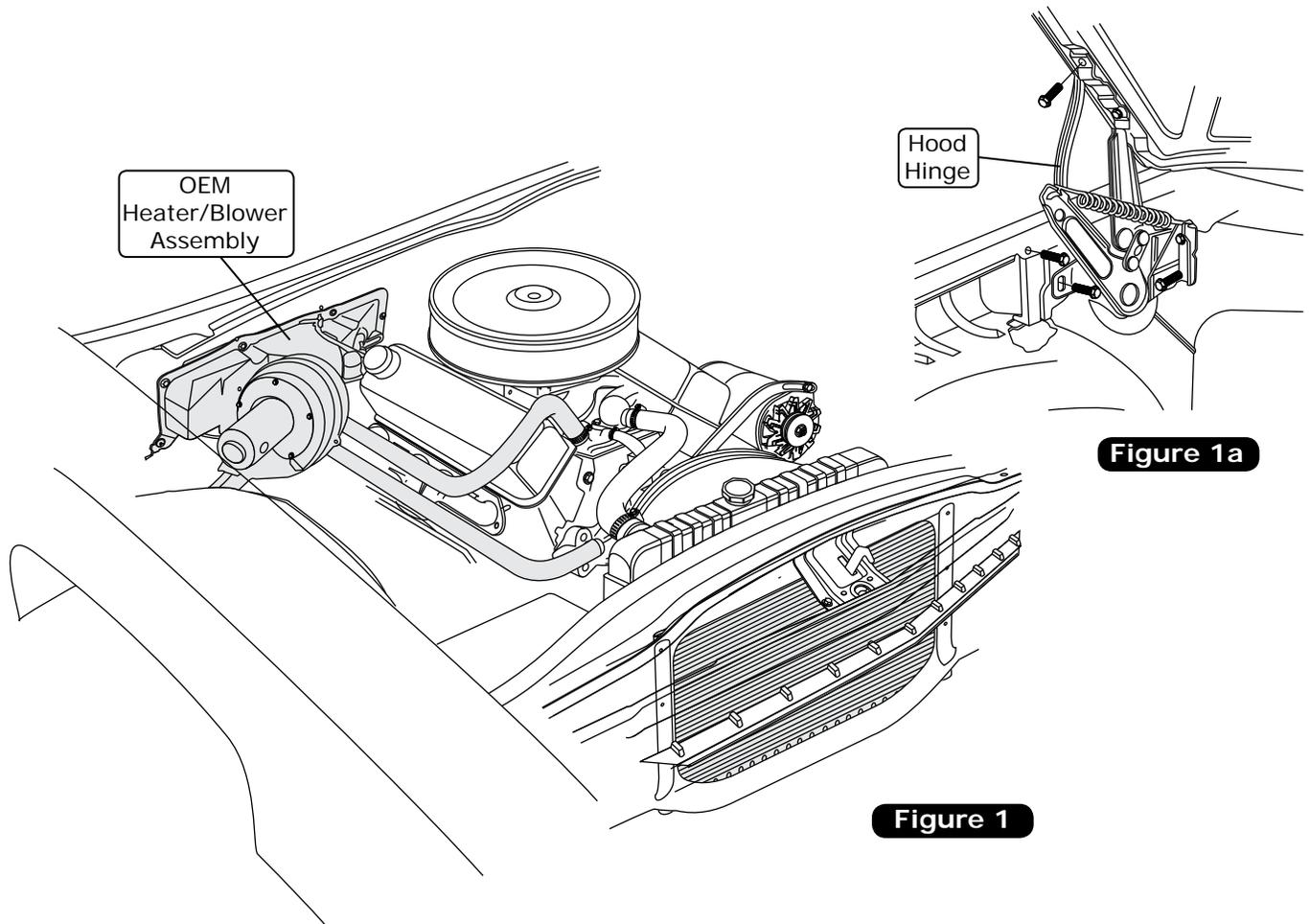
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Engine Compartment Disassembly

NOTE: Before starting the installation, check the function of the vehicle (horn, lights, etc.) for proper operation, and study the instructions, illustrations, & diagrams.

Perform the Following:

1. Disconnect battery.
2. Remove battery (retain).
3. Drain radiator.
4. Remove passenger side hood hinge (retain) (See Figure 1a, below).
5. Remove OEM blower assembly (discard) (See Figure 1, below).



Condenser Assembly and Installation

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

Compressor and Brackets

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

Pulleys

1. In most instances, the belt lengths will remain the same.



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Passenger Compartment Disassembly

Perform the Following:

1. Remove the OEM control panel assembly (retain) (See Figure 2, below).
2. Remove the OEM heater assembly (discard) (See Figure 2, below).
3. Remove the glove box (discard) (See Figure 2, below).
4. Remove the radio and speaker (retain) (See Figure 2, below).
5. Remove the OEM defrost duct assembly (discard) (See Figures 2 & 3, below).
6. Remove the (3) spot welds on the defrost duct with a chisel or die grinder (See Figure 3, below).

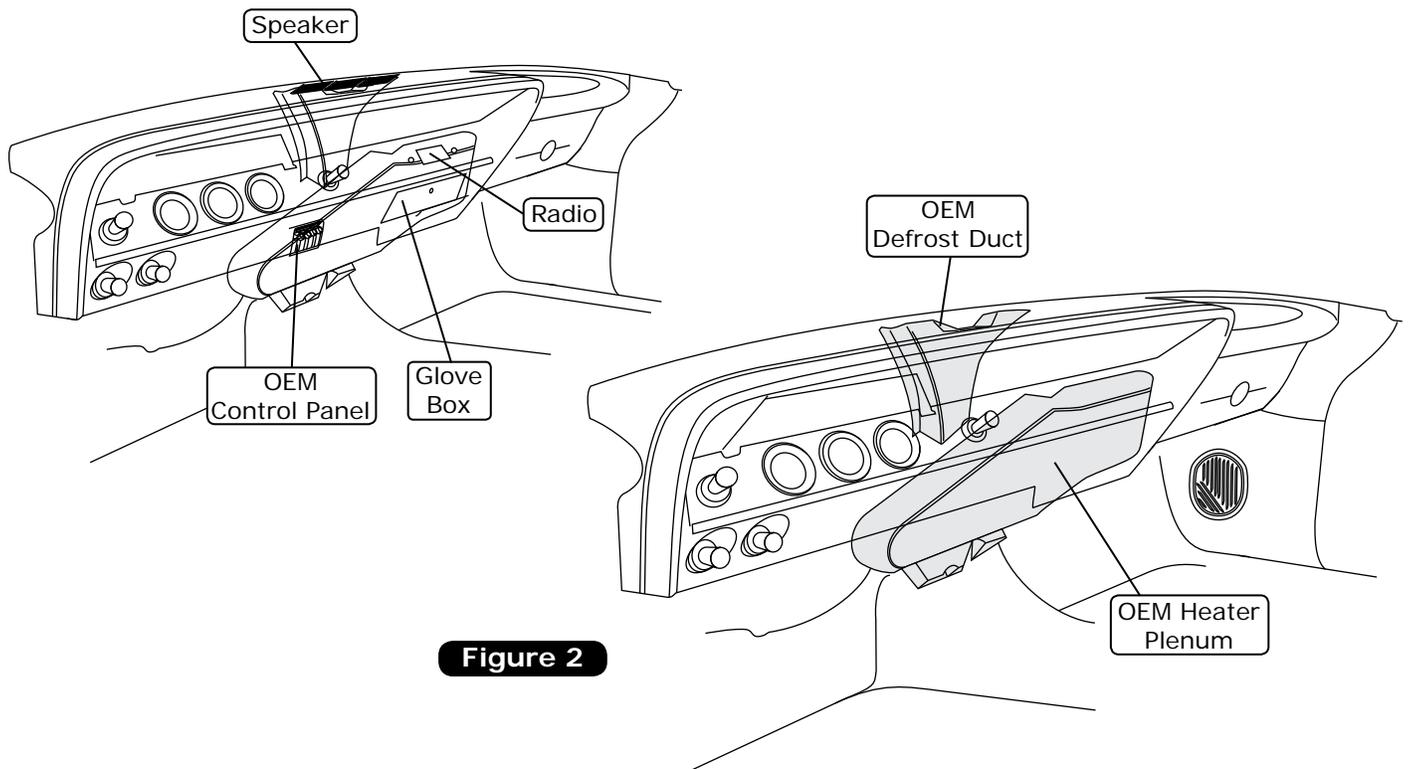


Figure 2

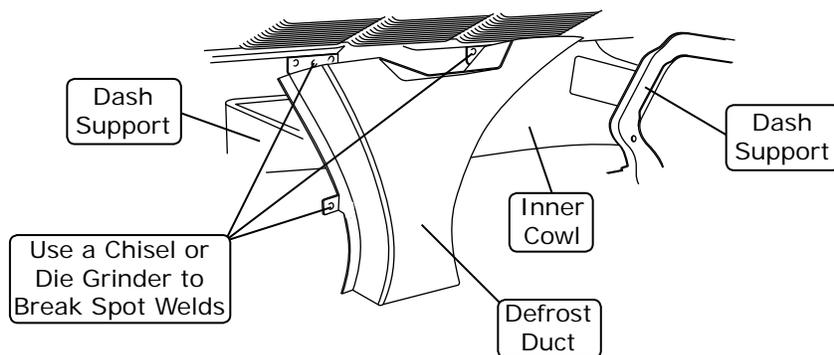


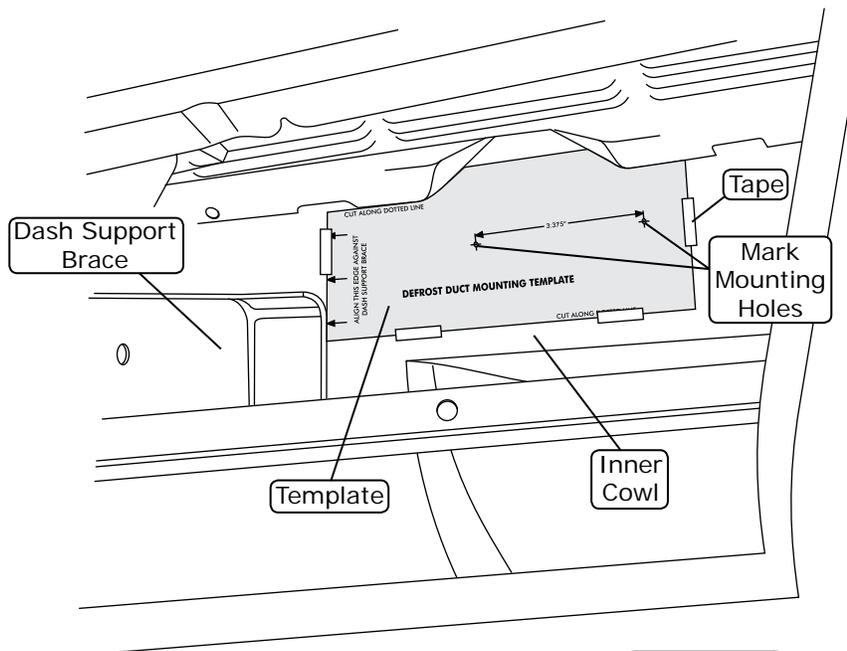
Figure 3



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Defrost Duct Installation

1. Cut out the defrost duct mounting template on Page 25.
2. Place the template onto the inner cowl. Once aligned, tape the template into place (See Figure 4, below).
3. Using a center punch or scribe, mark the (2) mounting holes on the inner cowl (See Figure 4, below).
4. Once the holes are marked, remove the template and drill (2) 1/8" holes into the inner cowl.
5. Install a J-nut onto the end of the speaker bracket as shown in Figure 4a, below.
6. Place the defrost duct under the dash, and align it with the OEM defrost opening in the dash and the mounting holes in the inner cowl.
7. Once the defrost duct and speaker bracket are aligned, secure the defrost duct and the speaker bracket to the inner cowl using (2) #10 x 1/2" sheet metal screws (See Figure 4a, below).



View Shown Through Glove Box Opening in Dash.

Figure 4

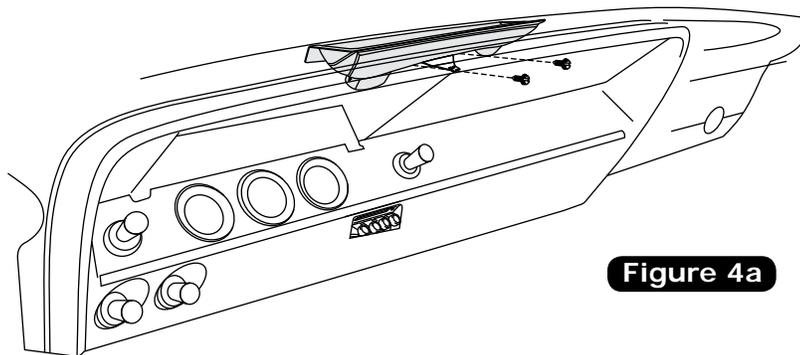
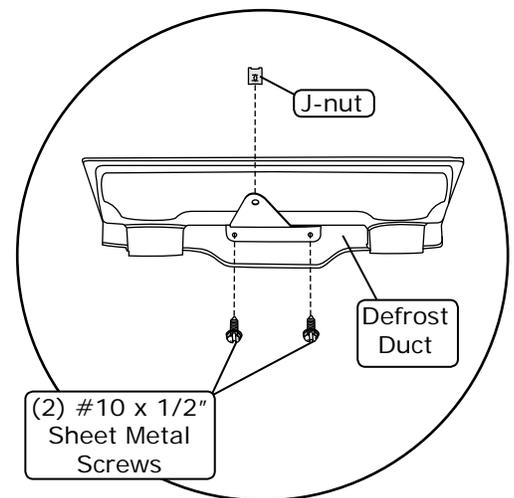


Figure 4a





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Speaker Mounting

- Using a #10 x 1/2" sheet metal screw, secure the speaker bracket to the bracket on the defrost duct (See Figure 5, below).

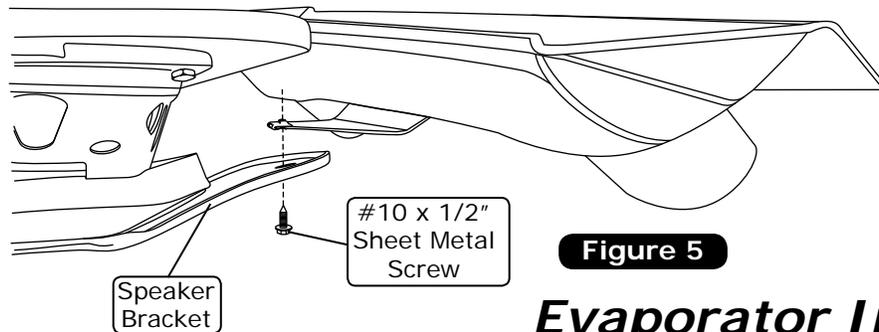


Figure 5

Evaporator Installation

- On a workbench, install the evaporator front and rear mounting brackets onto the evaporator using (6) 1/4-20 x 1/2" hex bolts, and tighten as shown in Figures 6 & 6a, below.
- Install the hardlines with properly lubricated O-rings (See Figure 15, Page 14, and Figure 21, Page 19).

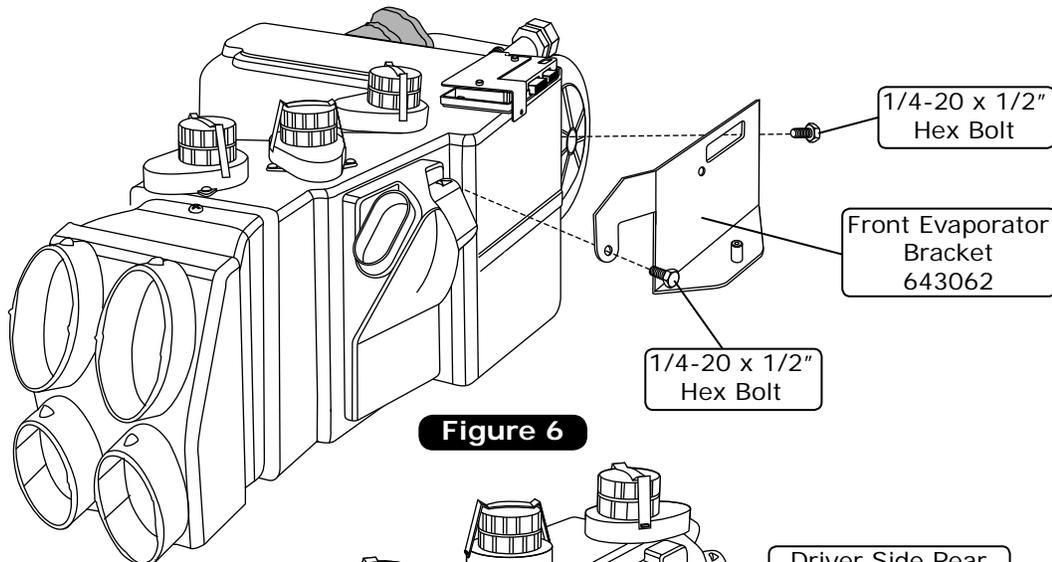


Figure 6

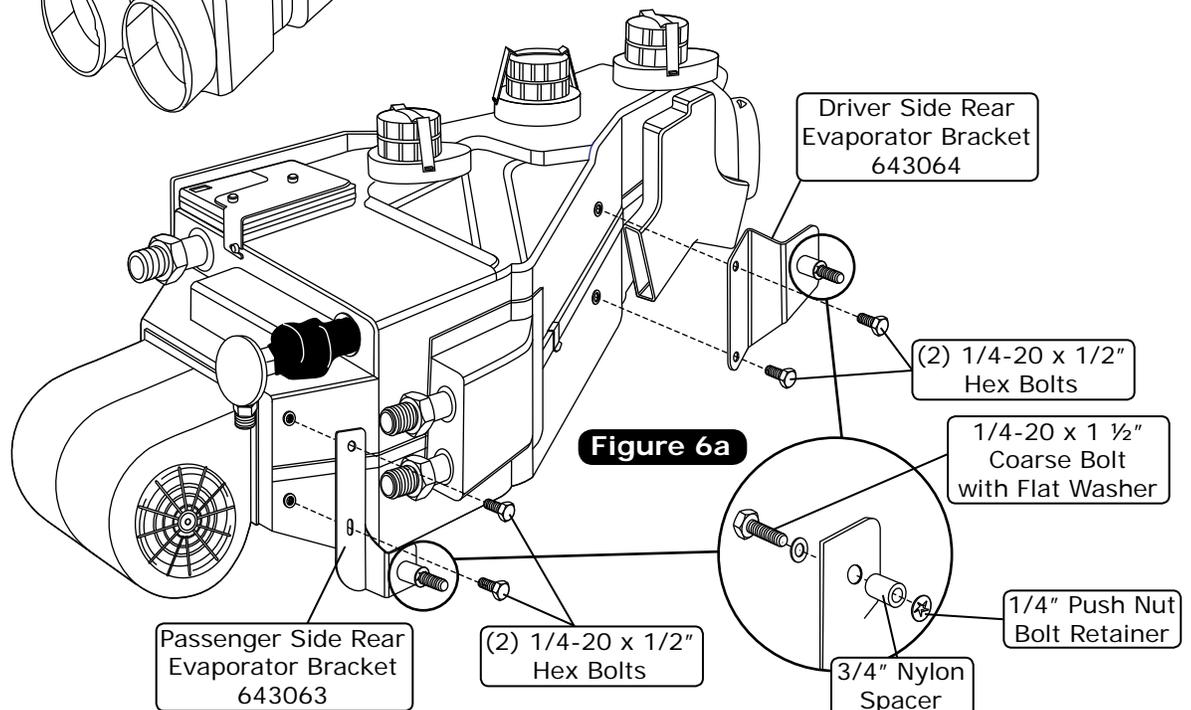


Figure 6a



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Fresh Air Cap Installation

1. Apply a 1/4" bead of silicone around the mating surface of the fresh air cap as shown in Figure 7, below.
2. Attach the fresh air cap to the firewall using a 1/4-20 x 1" bolt and washer (See Figure 7, below).

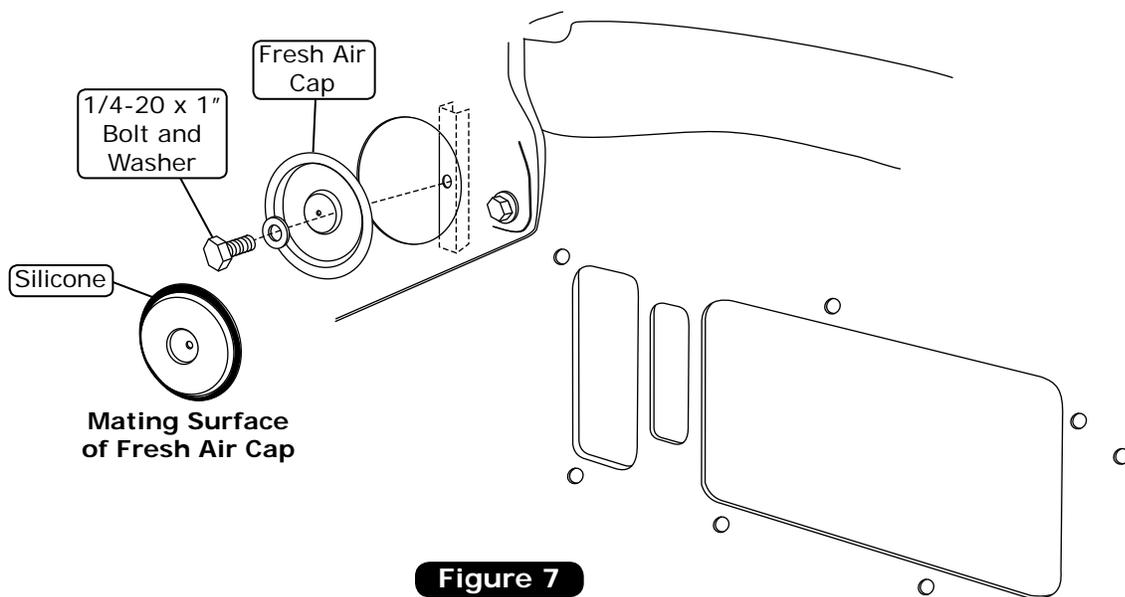


Figure 7

Firewall Cover Installation

1. Apply a 1/4" bead of silicone around the mating surface of the firewall cover, and secure it to the firewall using (5) 1/4-20 x 1/2" bolts, (10) flat washers and (5) nuts as shown in Figure 8, below.

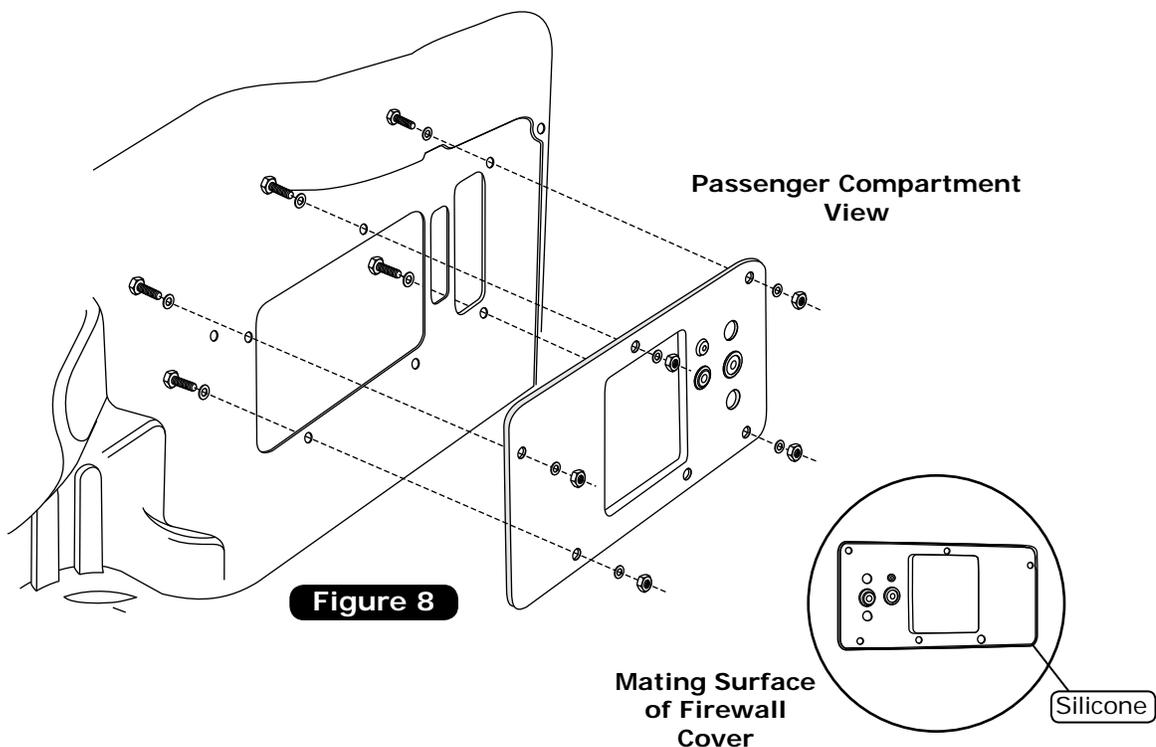


Figure 8

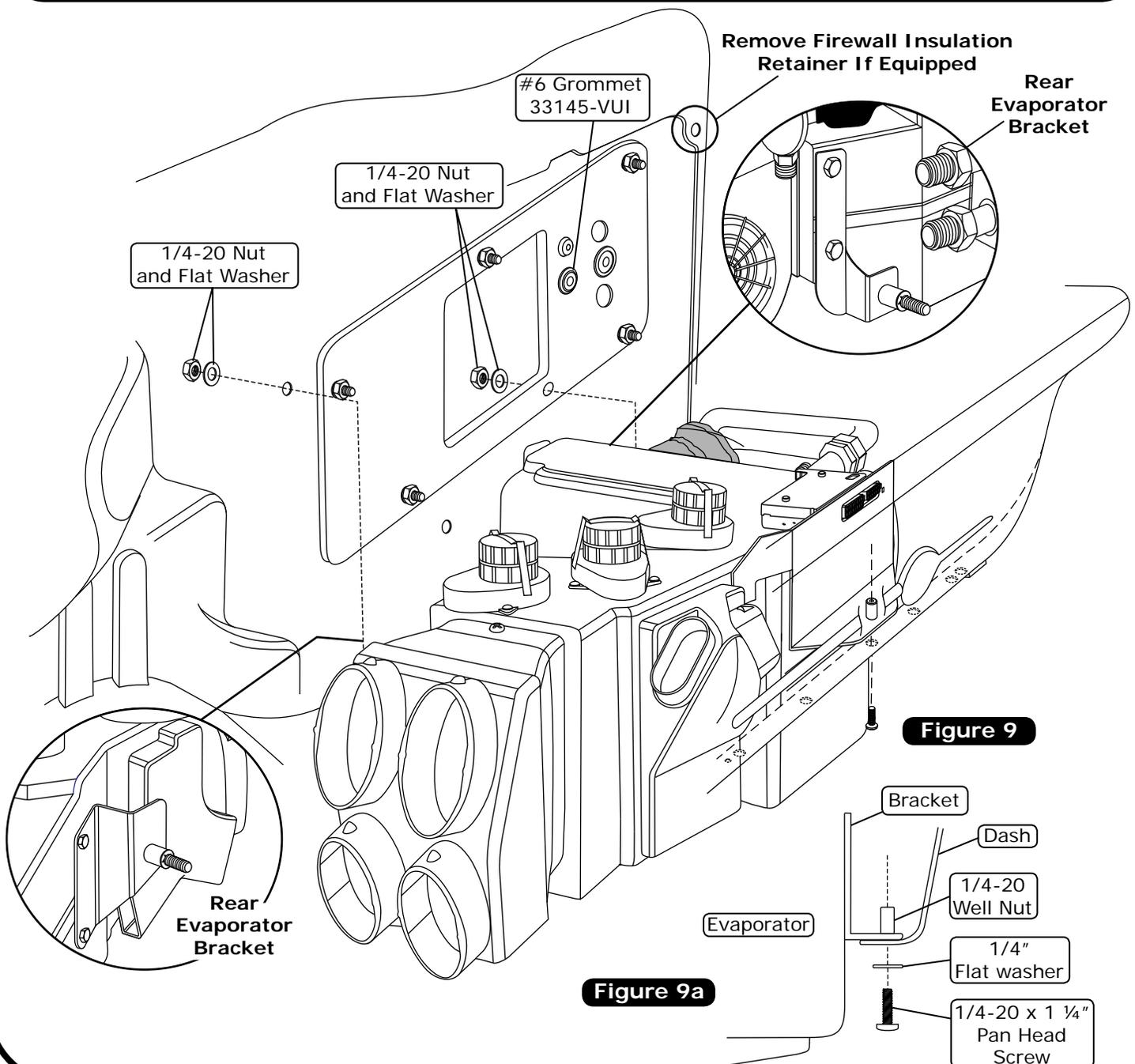


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Evaporator Installation (Cont.)

NOTE: Before the installation of the evaporator unit, there may be firewall insulation retainers located on the firewall that will interfere with the installation of the evaporator brackets (See Figure 7, below).

1. Remove the #6 grommet (See Figure 9, below).
2. Lift the evaporator unit up under the dashboard, and secure loosely to the firewall from the engine compartment side using (2) 1/4-20 nuts and washers (See Figure 9, below).
3. Using a 1/4-20 x 1 1/4" pan head screw with a 1/4" flat washer, secure the front evaporator mounting bracket to the dash (See Figures 9 & 9a, below).
4. Verify that the evaporator unit is level and square to the dash, and then tighten all mounting bolts. **NOTE: Tighten the bolt on the firewall first. Then tighten the front mounting bracket screws.**
5. Once the evaporator is installed, install a #6 grommet over the #6 hardline from the engine compartment.





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Drain Hose Installation

1. Locate the evaporator drain on the bottom of the evaporator case.
2. In line with the drain, lightly make a mark on firewall. Then, measure 1" down and drill a 5/8" hole through the firewall (See Figure 10, below).
3. Install the drain hose onto the evaporator drain on the bottom of the unit, and route it through the firewall.

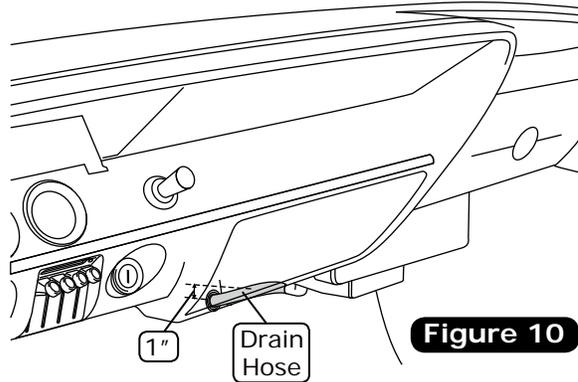


Figure 10

Driver Side Under Dash Louver Mounting Holes

1. Cut out the template provided on Page 25. Place the template under the dash on the driver side by aligning the left side of the template against the edge of the dash as shown in Figure 11, below. Make sure the OEM holes line up with the holes on the template as shown in Figure 11, below.
2. Once the template is aligned correctly and taped into place, mark the mounting holes on the dash. Once the holes are marked in the correct location, drill (2) 3/16" holes into the dash for the driver side louver bezel (See Figure 11, below).

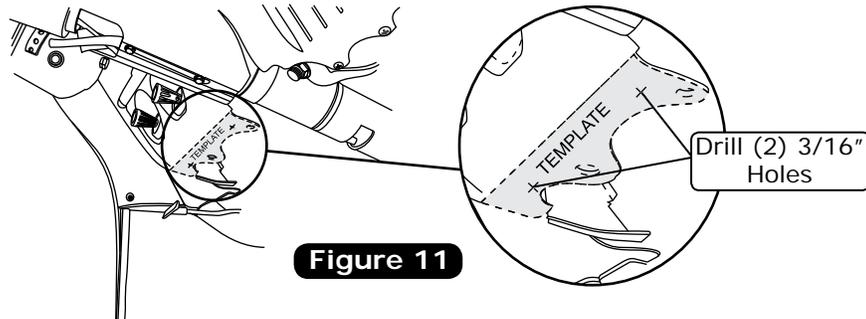


Figure 11

Passenger Side Under Dash Louver Mounting Holes

1. Using the (2) OEM dimples under the dash, drill (2) 3/16" holes in the dash as shown in Figure 12, below.

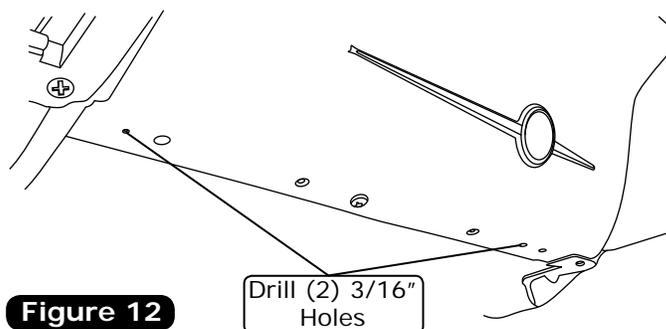


Figure 12



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Driver Side Under Dash Louver Installation

1. Place the louver bezel under the dash, and align it with the 3/16" holes in the dash.
2. Secure the louver bezel under the dash using (2) 10-24 x 3/8" pan head screws and (2) 10-24 nuts with star washers (See Figure 13, below).
3. Install the louver into the under dash bezel as shown in Figure 13a, below.

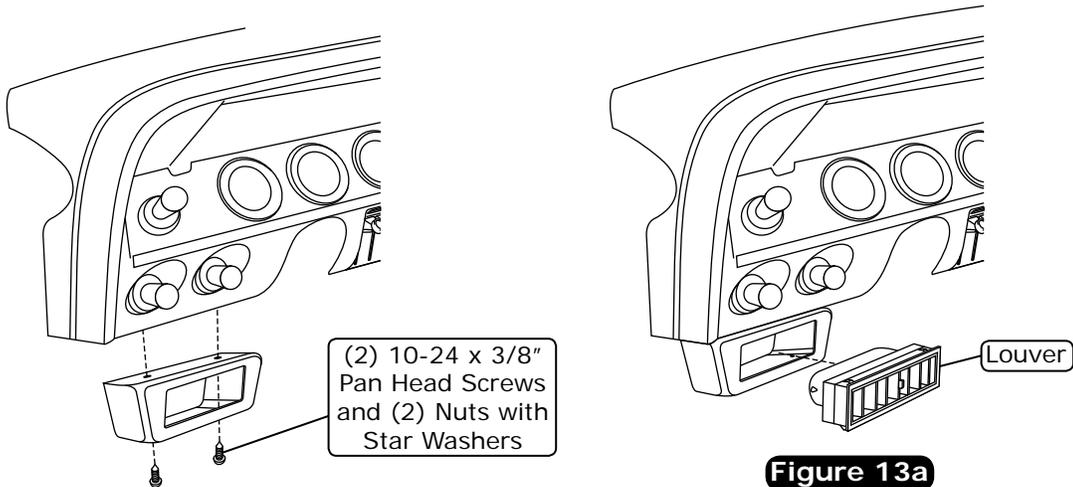


Figure 13

Center/Passenger Side Under Dash Louver Installation

1. Place the louver bezel under the dash, and align it with the OEM holes in the dash.
2. Secure the louver bezel under the dash using (3) 10-24 x 3/8" pan head screws and (3) 10-24 nuts with star washers (See Figure 14, below).
3. Install the louvers into the under dash bezel as shown in Figure 14a, below.

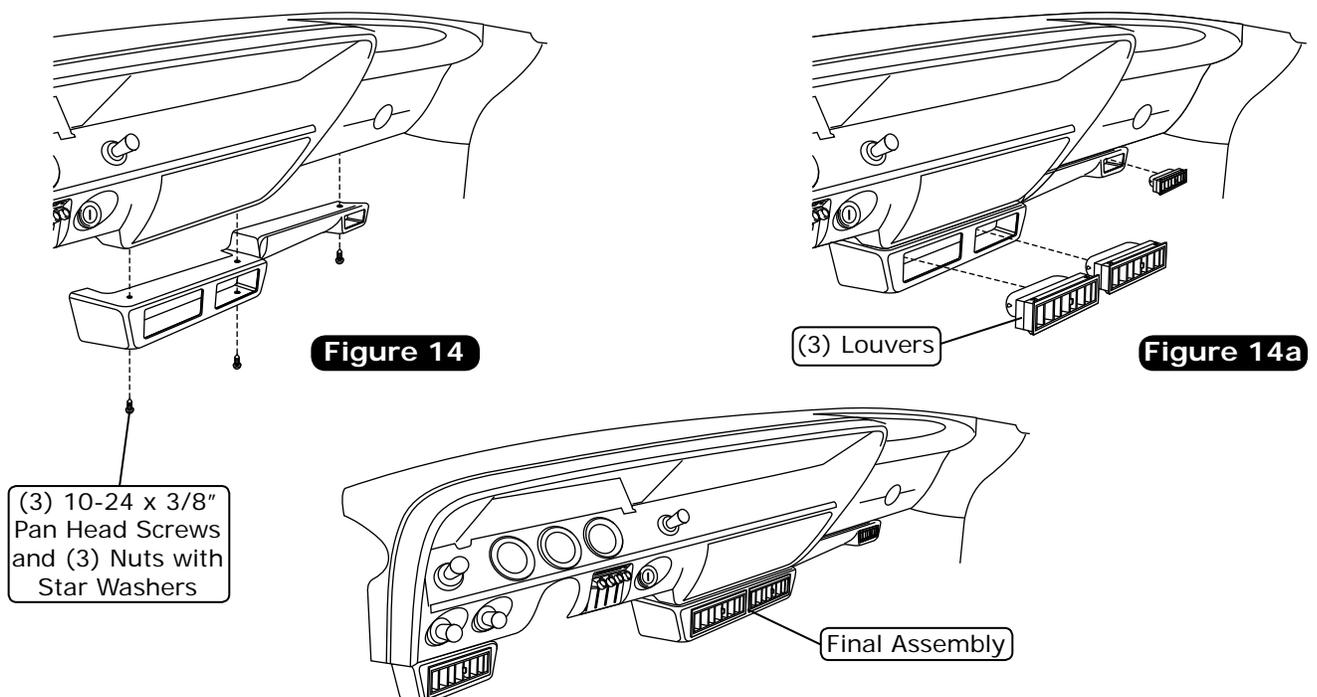


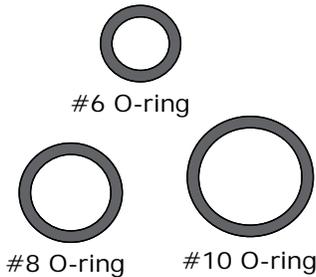
Figure 14

Figure 14a

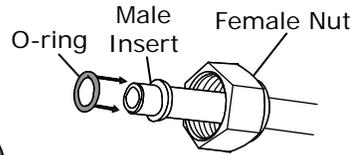


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Lubricating O-rings



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



For a proper seal of fittings: Install supplied O-rings as shown, and lubricate with supplied oil.

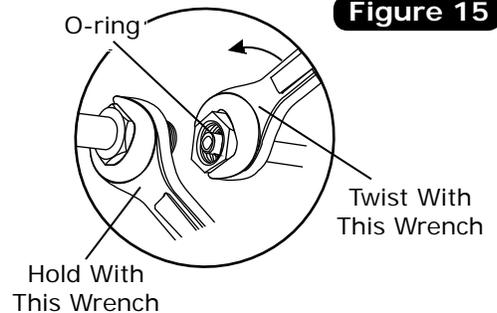
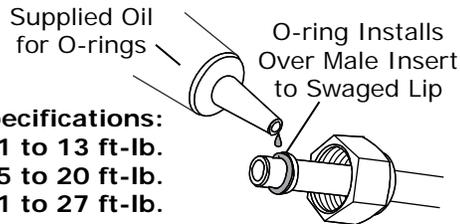


Figure 15

A/C Hose Installation

Standard Hose Kit:

1. Locate the #8 compressor A/C hose. Lubricate (2) #8 O-rings (See Figure 15, above) and connect the 135° female fitting with 134a service port to the #8 discharge port on the compressor. Then route the straight female fitting to the #8 condenser hardline coming through the core support (See Figure 17, Page 16). Tighten each fitting connection as shown in Figure 15, above.
2. Locate the #10 compressor A/C hose. Lubricate (2) #10 O-rings (See Figure 15, above) and connect the #10 135° female fitting with 134a service port to the #10 suction port on the compressor. Then route the 45° female fitting to the #10 evaporator hardline coming through the firewall (See Figure 17, Page 16). Tighten each fitting connection as shown in Figure 15, above. **NOTE: Wrap the #10 fitting connections with press tape (See Figure 16, Page 15).**
3. Locate the #6 evaporator/core hardline. Lubricate (2) #6 O-rings (See Figure 15, above) and connect the hardline to the #6 hardline coming through the core support from the drier. Then attach the other end of the hardline with lubricated O-ring to the #6 evaporator hardline coming through the firewall (See Figure 17, Page 16). Tighten each fitting connection as shown in Figure 15, above.
4. Use a #2 and a #10 Adel clamp to secure the #6 evaporator/core hardline and the 5/8" heater hose to the inner fenderwell as shown in Figure 17, Page 16. Secure the Adel clamps to the inner fender using (2) 10-32 x 1/2" pan head screws with nuts.

Modified Hose Kit:

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



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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" x 5/8" reducer fitting (not supplied) will need to be installed in the heater hose.

1. Route the heater hose from the water pump to the heater line coming through the firewall as shown in Figure 16, below. Secure using hose clamps.
2. Route the heater hose from the intake to the heater line coming through the firewall as shown in Figure 16, below. **NOTE:** Install the heater control valve in line with the intake manifold (pressure side) heater hose, and secure using hose clamps. Also note proper flow direction.

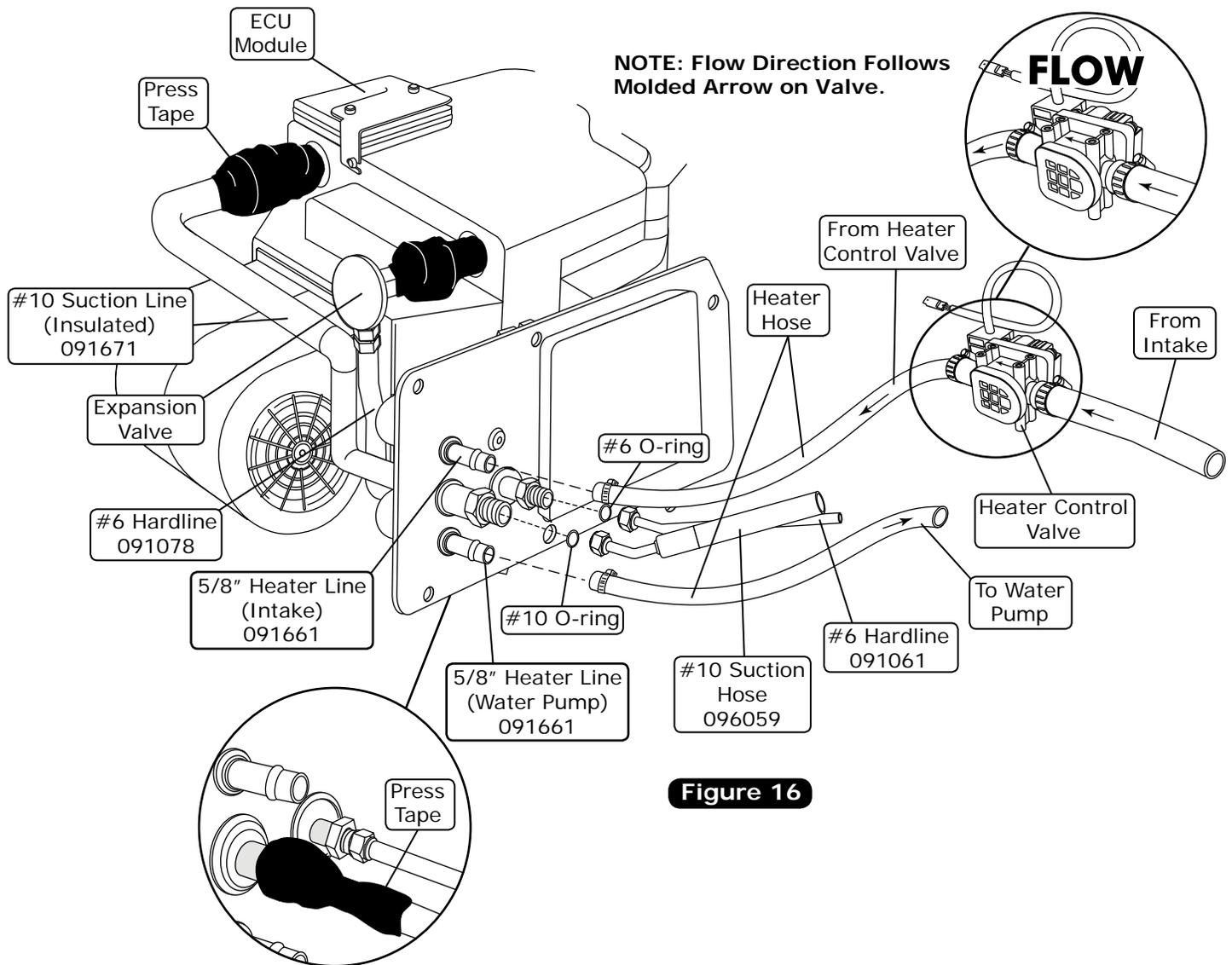


Figure 16

A/C & Heater Hose Routing

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

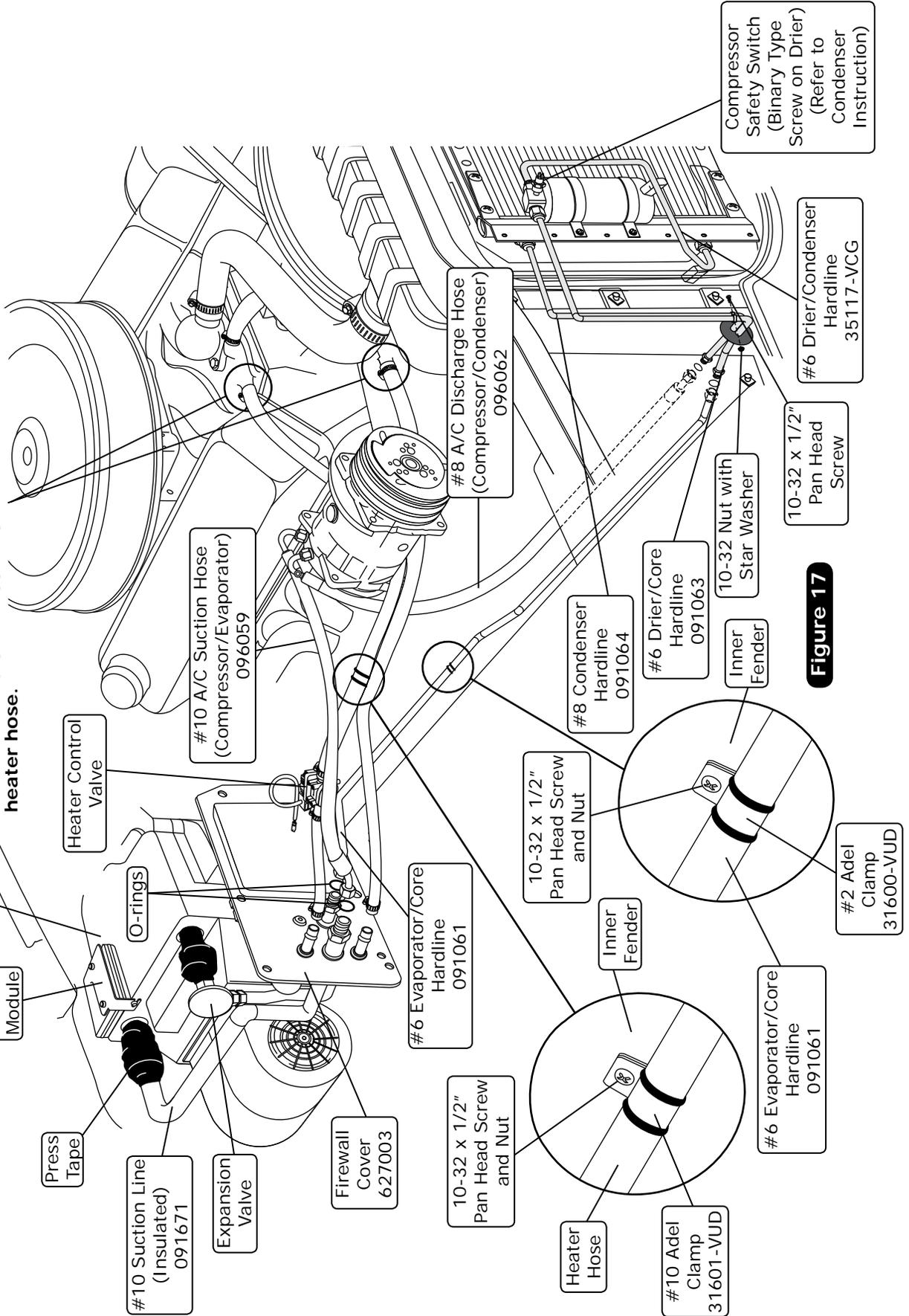


Figure 17



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Final Steps

1. Install duct hoses as shown in Figure 20, Page 18.
2. Route A/C wires (12 volt/grounds/binary switch/heater control valve) through 3/8" grommet as shown in Figure 19, below).
3. Install control panel assembly. Refer to control panel instructions.
4. Plug the wiring harnesses into the ECU module on the sub case as shown in Figure 20, Page 18. Wire according to wiring diagrams on Pages 20 & 21.
5. Install supplied glove box, and secure using (3) OEM screws through the OEM holes as shown in Figure 18, below.
6. Reinstall glove box door.
7. Reinstall all previously removed items.
8. Fill radiator with at least a 50/50 mixture of approved antifreeze and distilled water. It is the owner's responsibility to keep the freeze protection at the proper level for the climate in which the vehicle is operated. Failure to follow antifreeze recommendations will cause heater core to corrode prematurely and possibly burst in A/C mode and/or freezing weather, voiding your warranty.
9. Double check all fittings, brackets and belts for tightness.
10. Vintage Air recommends that all A/C systems be serviced by a licensed automotive A/C technician.
11. Evacuate the system for a minimum of 45 minutes prior to charging, and perform a leak check prior to servicing.
12. Charge the system to the capacities stated on Page 4 of this instruction manual.
13. See Operation of Controls procedures on Page 22.

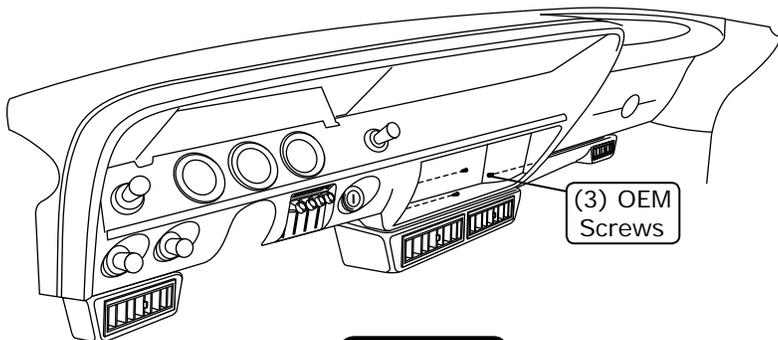


Figure 18

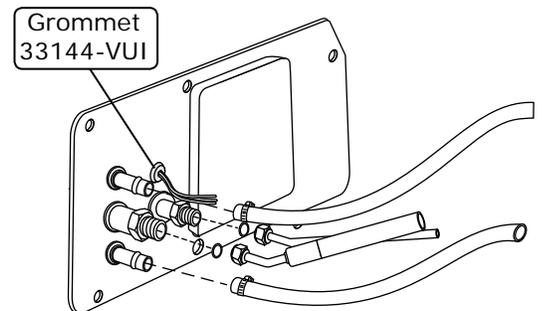


Figure 19



Control Panel & Duct Hose Routing

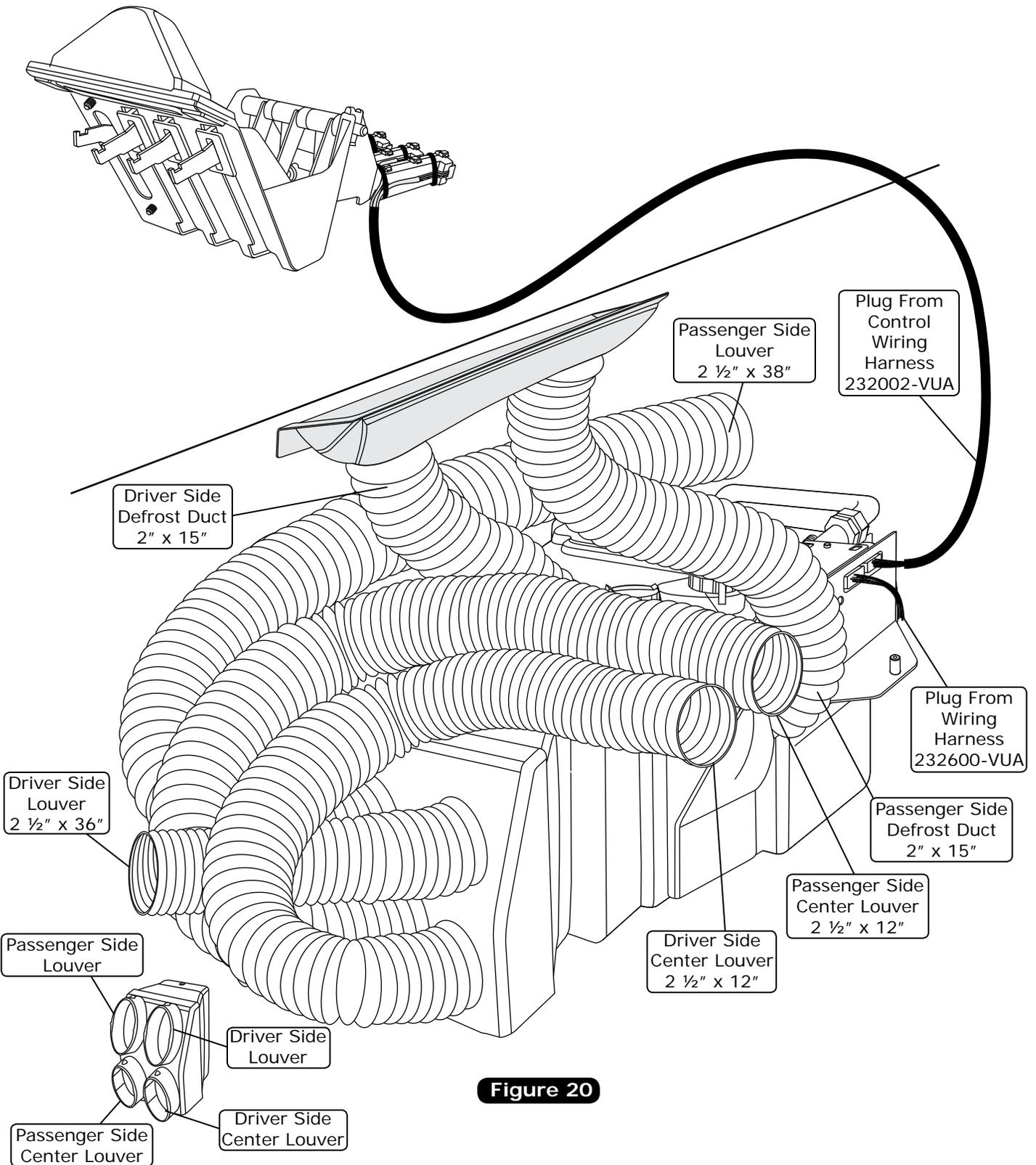


Figure 20



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Evaporator Hardline Installation

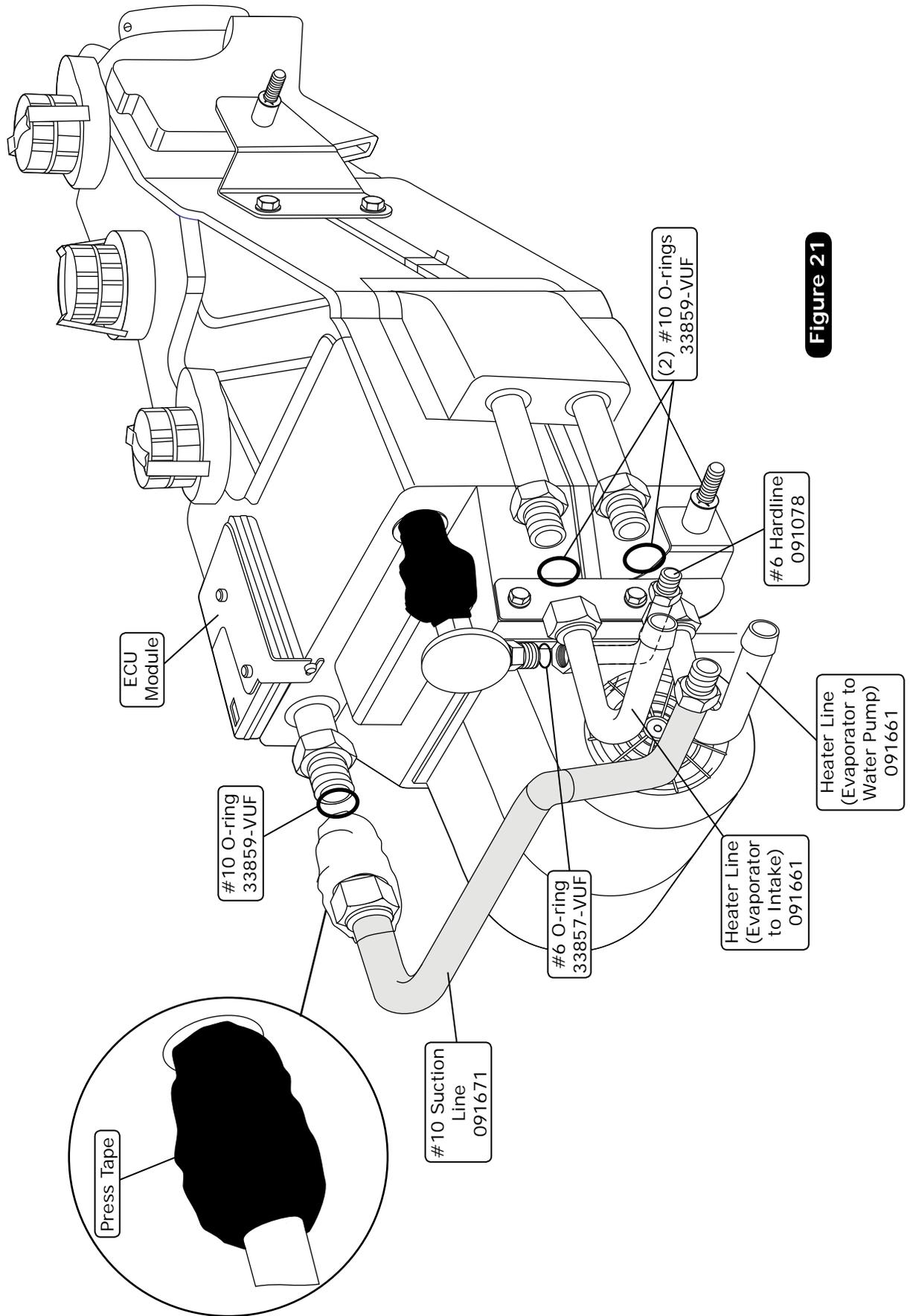


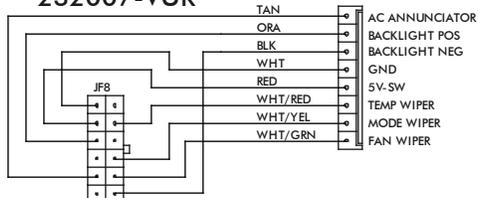
Figure 21



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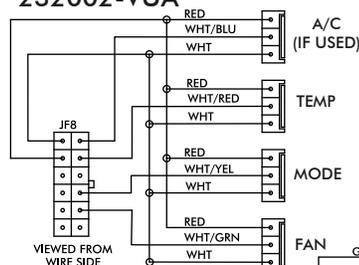
Wiring Diagram

232007-VUR



VIEWED FROM WIRE SIDE

232002-VUA



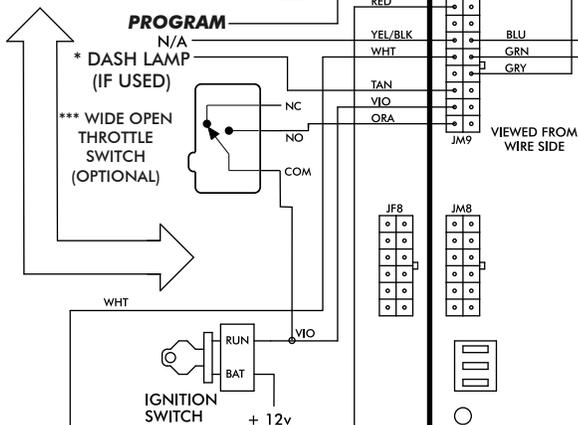
VIEWED FROM WIRE SIDE

PROGRAM

N/A

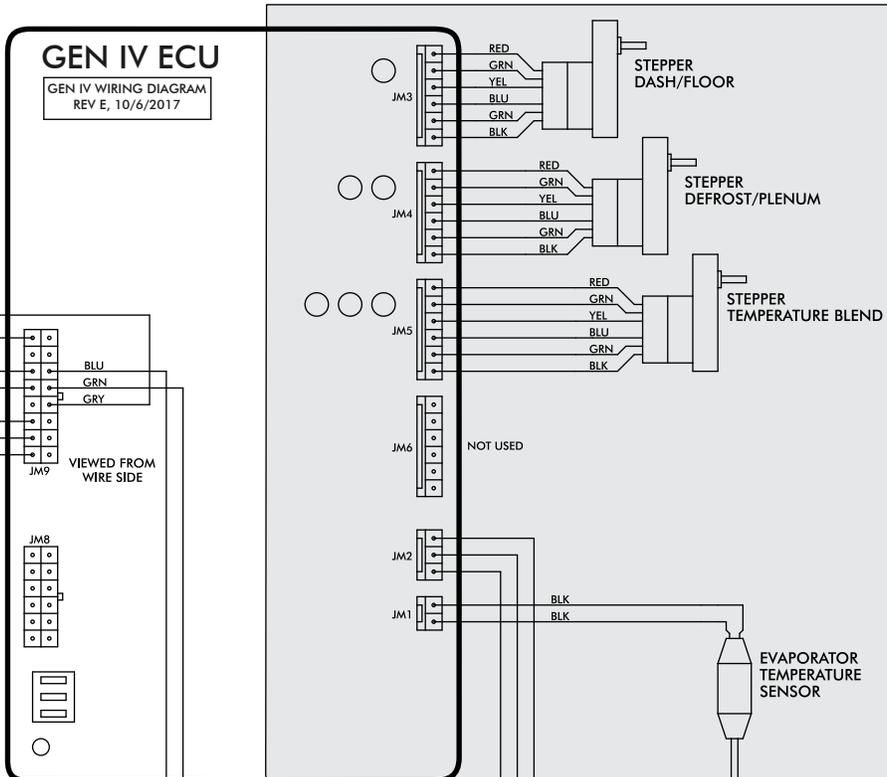
* DASH LAMP (IF USED)

*** WIDE OPEN THROTTLE SWITCH (OPTIONAL)

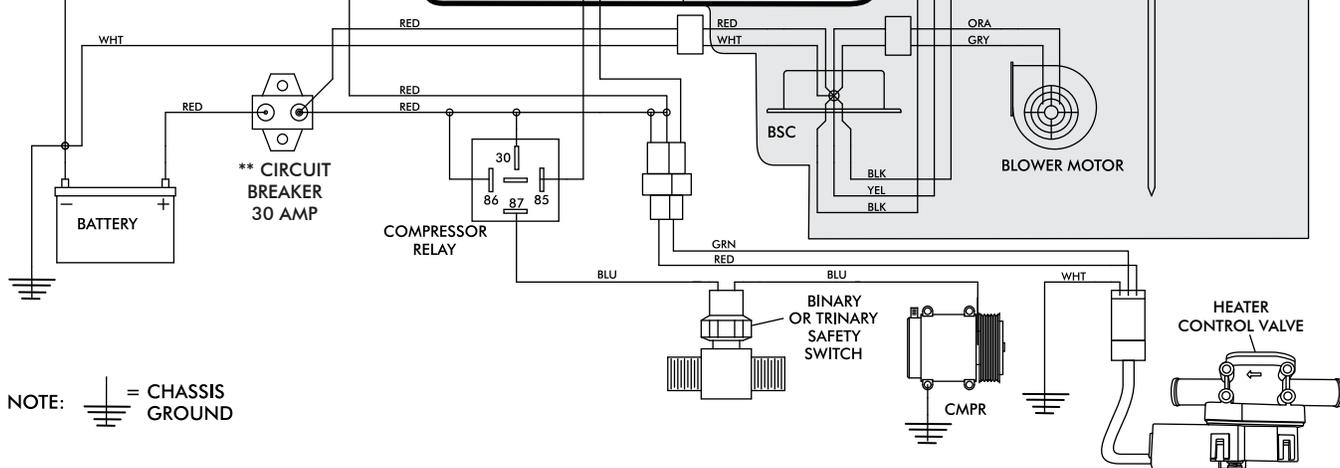


GEN IV ECU

GEN IV WIRING DIAGRAM
REV E, 10/6/2017



PRE-WIRED



NOTE: = CHASSIS GROUND

* 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).

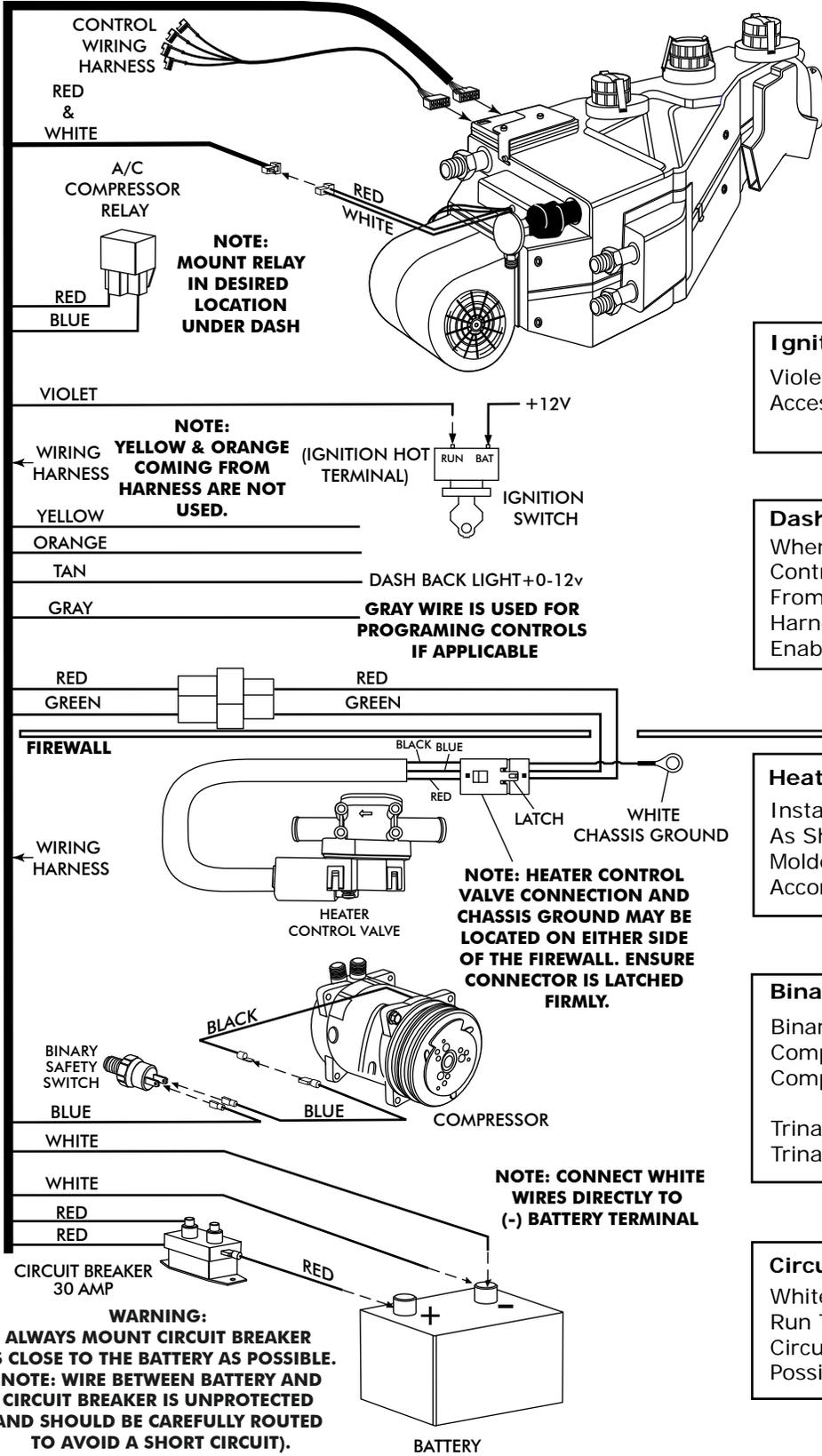
*** Wide Open Throttle Switch Contacts Close Only at Full Throttle, Which Disables A/C Compressor.



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Gen IV Wiring Connection Instruction

WIRING HARNESS



Ignition Switch:
Violet 12V Ign Switch Source (Key On Accessory) Position Must Be Switched.

Dash Light:
When Using A Vintage Air Supplied Control Panel, Connect The Tan Wire From The Gen IV Evaporator Wiring Harness To The Factory Dash Lights To Enable Panel Backlighting.

Heater Control Valve:
Install With Servo Motor Facing Down, As Shown. Note Flow Direction Arrow Molded Into Valve Body, And Install Accordingly.

Binary/Trinary & Compressor:
Binary: Connect As Shown (Typical Compressor Wiring). Be Sure Compressor Body Is Grounded.
Trinary Switch: Connect According To Trinary Switch Wiring Diagram.

Circuit Breaker/Battery:
White **Must** Run To (-) Battery. Red May Run To (+) Battery Or Starter. Mount Circuit Breaker As Close to Battery As Possible.



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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. **NOTE: For proper control panel function, refer to control panel instructions for calibration procedure.**

Blower Speed

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

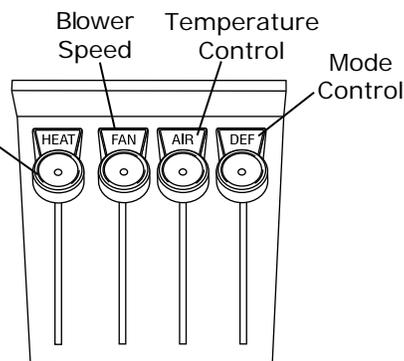
Mode Control

This lever/knob controls the mode positions, from DASH to FLOOR to DEFROST, with a blend in between.

Temperature Control

This lever/knob controls the temperature, from HOT to COLD.

NOTE: Original blower switch will not be used.



A/C Operation

Blower Speed

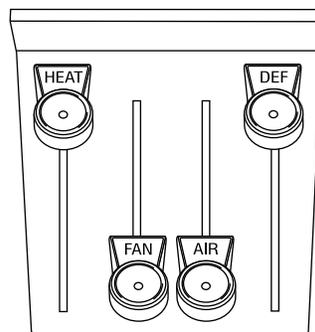
Adjust to desired speed.

Mode Control

Adjust to desired mode position (DASH position recommended).

Temperature Control

For A/C operation, adjust to coldest position to engage compressor (Adjust between HOT and COLD to reach desired temperature).



Heat Operation

Blower Speed

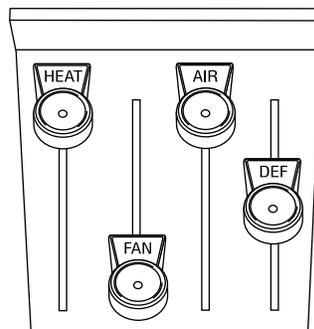
Adjust to desired speed.

Mode Control

Adjust to desired mode position (FLOOR position recommended).

Temperature Control

For maximum heating, adjust to hottest position (Adjust between HOT and COLD to reach desired temperature).



Defrost/De-fog Operation

Blower Speed

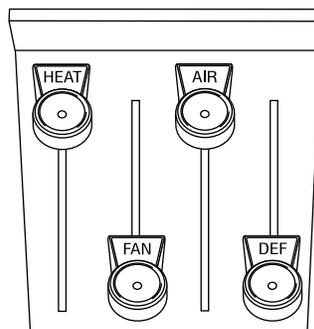
Adjust to desired speed.

Temperature Control

Adjust to desired temperature.

Mode Control

Adjust to DEFROST position for maximum defrost, or between FLOOR and DEFROST positions for a bi-level blend (Compressor is automatically engaged).





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Troubleshooting Guide

Symptom	Condition	Checks	Actions	Notes
1a. Blower stays on high speed when ignition is on.	No other functions work.	Check for damaged pins or wires in control head plug.	Verify that all pins are inserted into plug. Ensure that no pins are bent or damaged in ECU.	Loss of ground on this wire renders control head inoperable.
	All other functions work.	Check for damaged ground wire (white) in control head harness.	Verify continuity to chassis ground with white control head wire at various points.	See blower switch check procedure.
		Check for damaged blower switch or potentiometer and associated wiring.		
1b. Blower stays on high speed when ignition is on or off.		Unplug 3-wire BSC control connector from ECU. If blower shuts off, ECU is either improperly wired or damaged.	Be sure the small, 20 GA white ground wire is connected to the battery ground post. If it is, replace the ECU.	No other part replacements should be necessary.
		Unplug 3-wire BSC control connector from ECU. If blower stays running, BSC is either improperly wired or damaged.	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 "ground" side of the blower is shorted to chassis ground, the blower will run on HI.	
			Replace BSC (This will require removal of evaporator from vehicle).	
2. Compressor will not turn on (All other functions work).		System must be charged for compressor to engage.	Charge system or bypass pressure switch.	Danger: Never bypass safety switch with engine running. Serious injury can result. To check for proper pot function, check voltage at white/blue wire. Voltage should be between 0V and 5V, and will vary with pot lever position.
		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.	
		Check for disconnected or faulty thermistor.	Check 2-pin connector at ECU housing.	
3. Compressor will not turn off (All other functions work).		Check for faulty A/C potentiometer or associated wiring.	Repair or replace pot/control wiring.	Disconnected or faulty thermistor will cause compressor to be disabled. Red wire at A/C pot should have approximately 5V with ignition on. White wire will have continuity to chassis ground. White/Blue wire should vary between 0V and 5V when lever is moved up or down.
		Check for faulty A/C relay.	Replace relay.	



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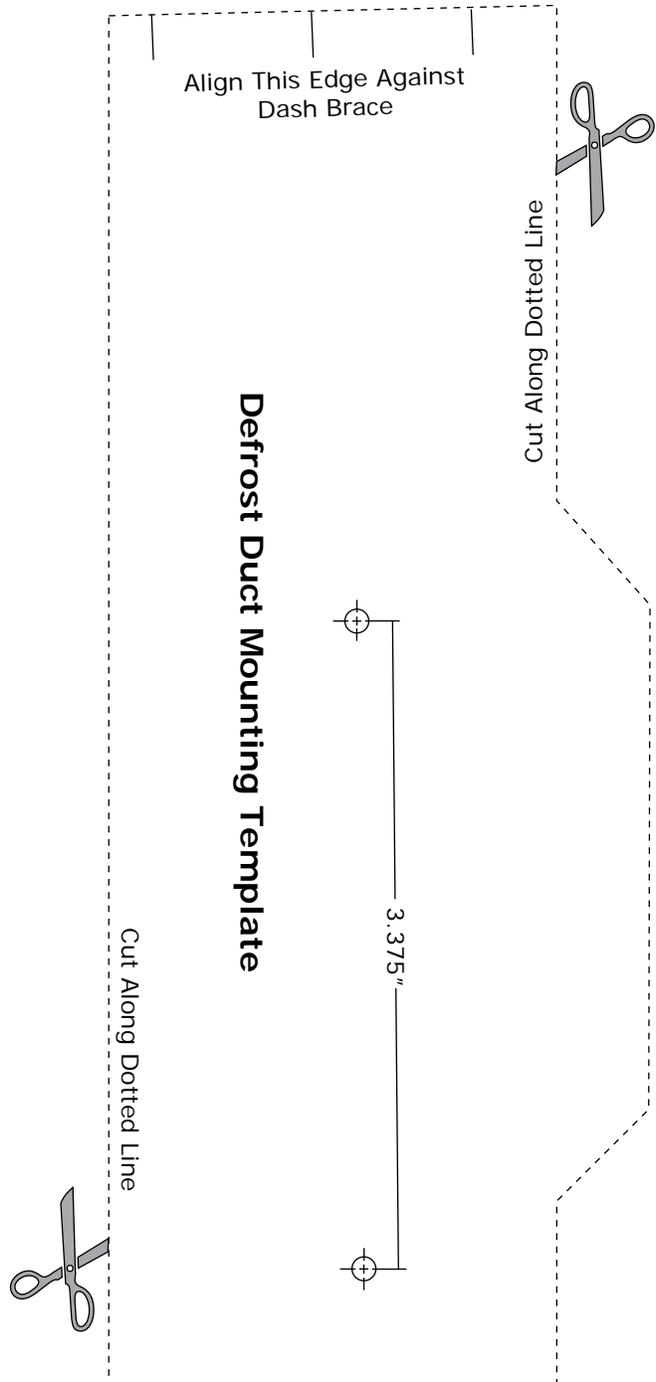
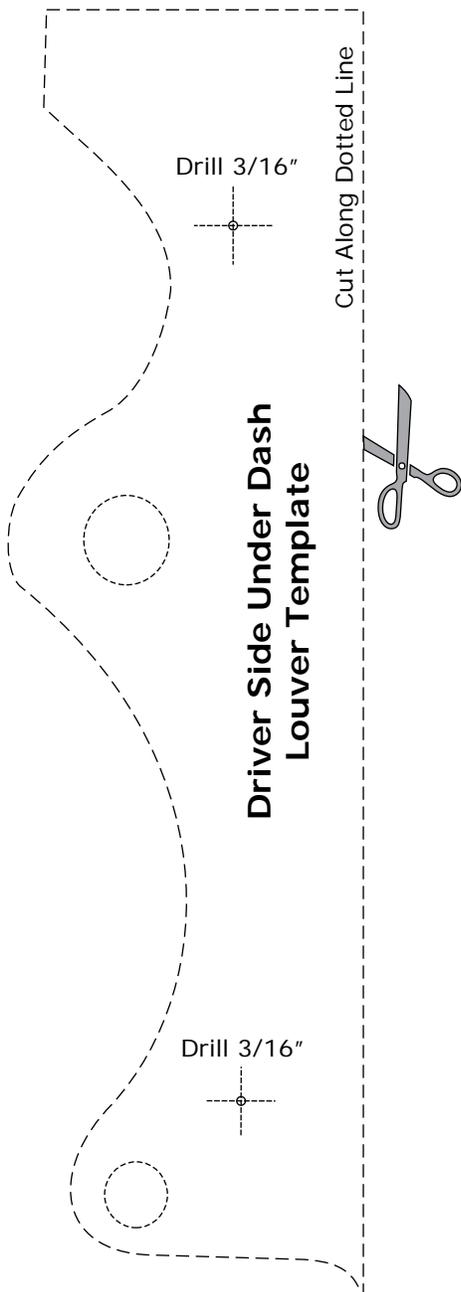
Troubleshooting Guide (Cont.)

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 versions).	Noise interference from either ignition or alternator.	Install capacitors on ignition coil and alternator. Ensure good ground at all points. Relocate coil and associated wiring away from ECU and ECU wiring. Check for burned or loose plug wires.	Ignition noise (radiated or conducted) will cause the system to shut down due to high voltage spikes. If this is suspected, check with a quality oscilloscope. Spikes greater than 16V will shut down the ECU. Install a radio capacitor at the positive post of the ignition coil (See radio capacitor installation bulletin). A faulty alternator or worn out battery can also result in this condition.
	System will not turn on, or runs intermittently.	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.	
	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.	
5.	Loss of mode door function.	Check for damaged mode switch or potentiometer and associated wiring.		Typically caused by evaporator housing installed in a bind in the vehicle. Be sure all mounting locations line up and don't have to be forced into position.
		Check for obstructed or binding mode doors.		
		Check for damaged stepper motor or wiring.		
6.	Blower turns on and off rapidly.	Battery voltage is at least 12V at circuit breaker.	Ensure all system grounds and power connections are clean and tight.	System shuts off blower at 10V. Poor connections or weak battery can cause shutdown at up to 11V.
		Battery voltage is less than 12V.	Charge battery.	
7.	Erratic functions of blower, mode, temp, etc.	Check for faulty battery or alternator.		
		Check for damaged switch or pot and associated wiring.	Repair or replace.	
8.	When ignition is turned on, blower momentarily comes on, then shuts off. This occurs with the blower switch in the OFF position.	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 system is pulled below 7V for even a split second, the system will reset.	Run red power wire directly to battery.	



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Templates: Driver Side Under Dash Louver Bezel & Defrost Duct Mounting





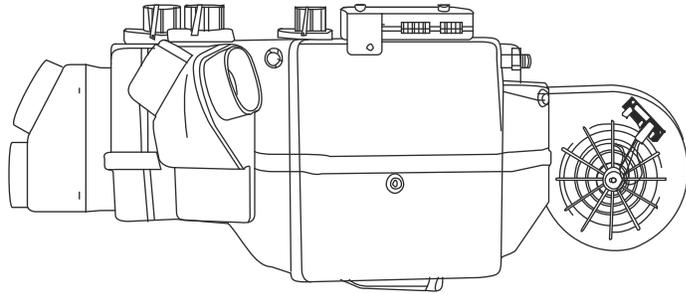
Packing List: Evaporator Kit (561062)

No.	Qty.	Part No.	Description
1.	1	744004-VUE	Gen IV Evaporator Sub Case
2.	1	784061	Accessory Kit

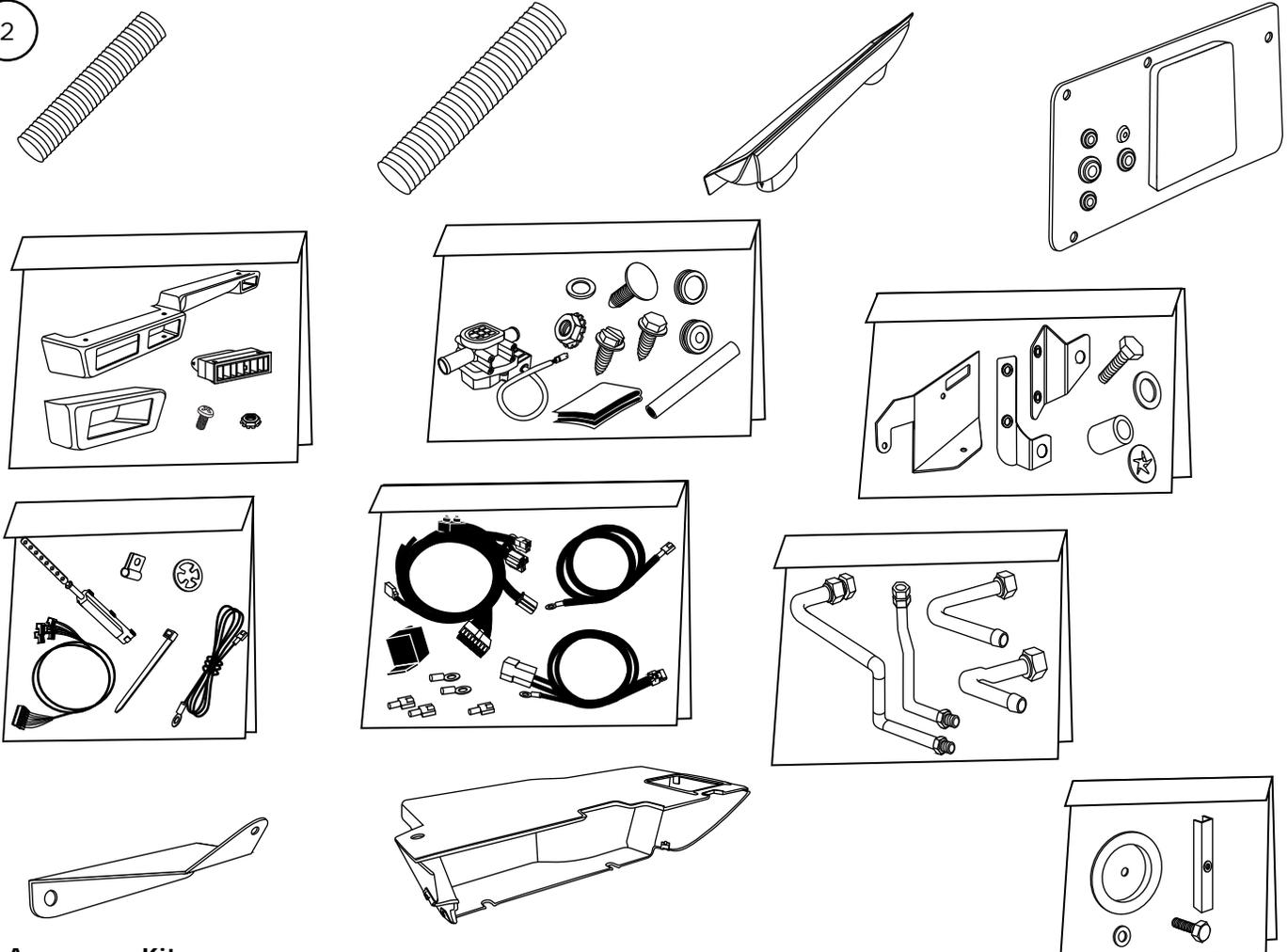
Checked By: _____
 Packed By: _____
 Date: _____

1

Gen IV Evaporator
Sub Case
744004-VUE



2



Accessory Kit
784061

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