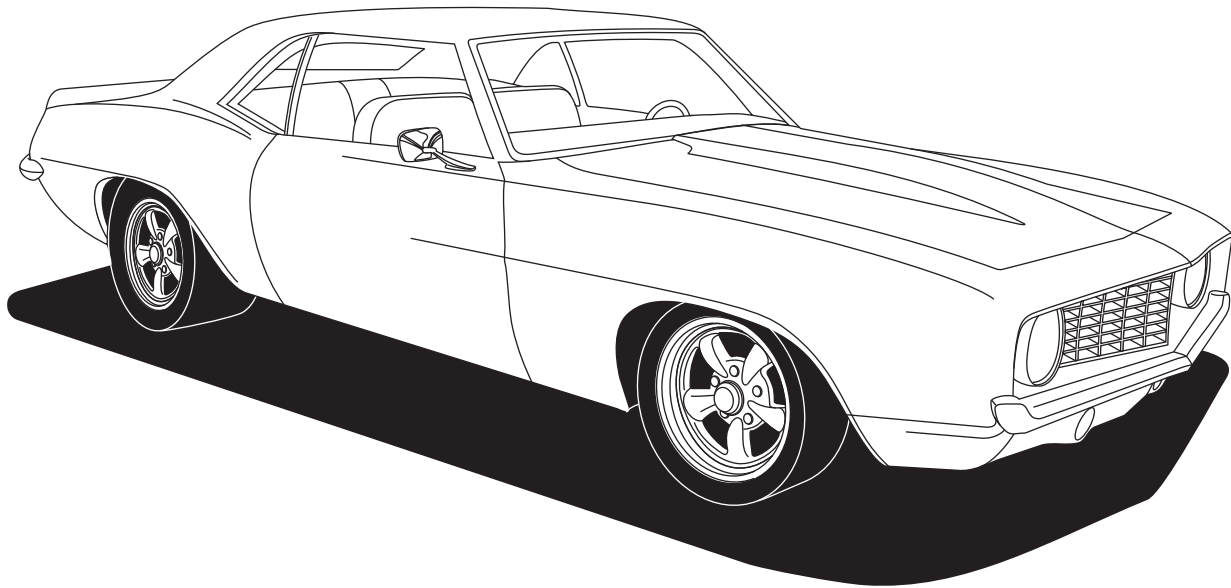




an ISO 9001:2008 Registered Company

1969 Chevrolet Camaro

without **Factory Air
Evaporator Kit
(561169)**



18865 Goll St. San Antonio, TX 78266
Phone: 210-654-7171
Fax: 210-654-3113
www.vintageair.com



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Table of Contents

Thank you for purchasing this evaporator kit from Vintage Air. When installing these components as part of a complete SureFit™ system, Vintage Air recommends working from front to back on the vehicle, installing the condenser kit, hose kit, and compressor first, followed by the wiring, evaporator, and finally the control panel.

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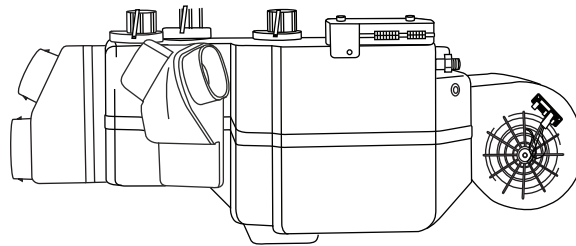
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Packing List: Evaporator Kit (561169)

No.	Qty.	Part No.	Description
1.	1	762169	Gen IV Evaporator Sub Case
2.	1	781169	Accessory Kit

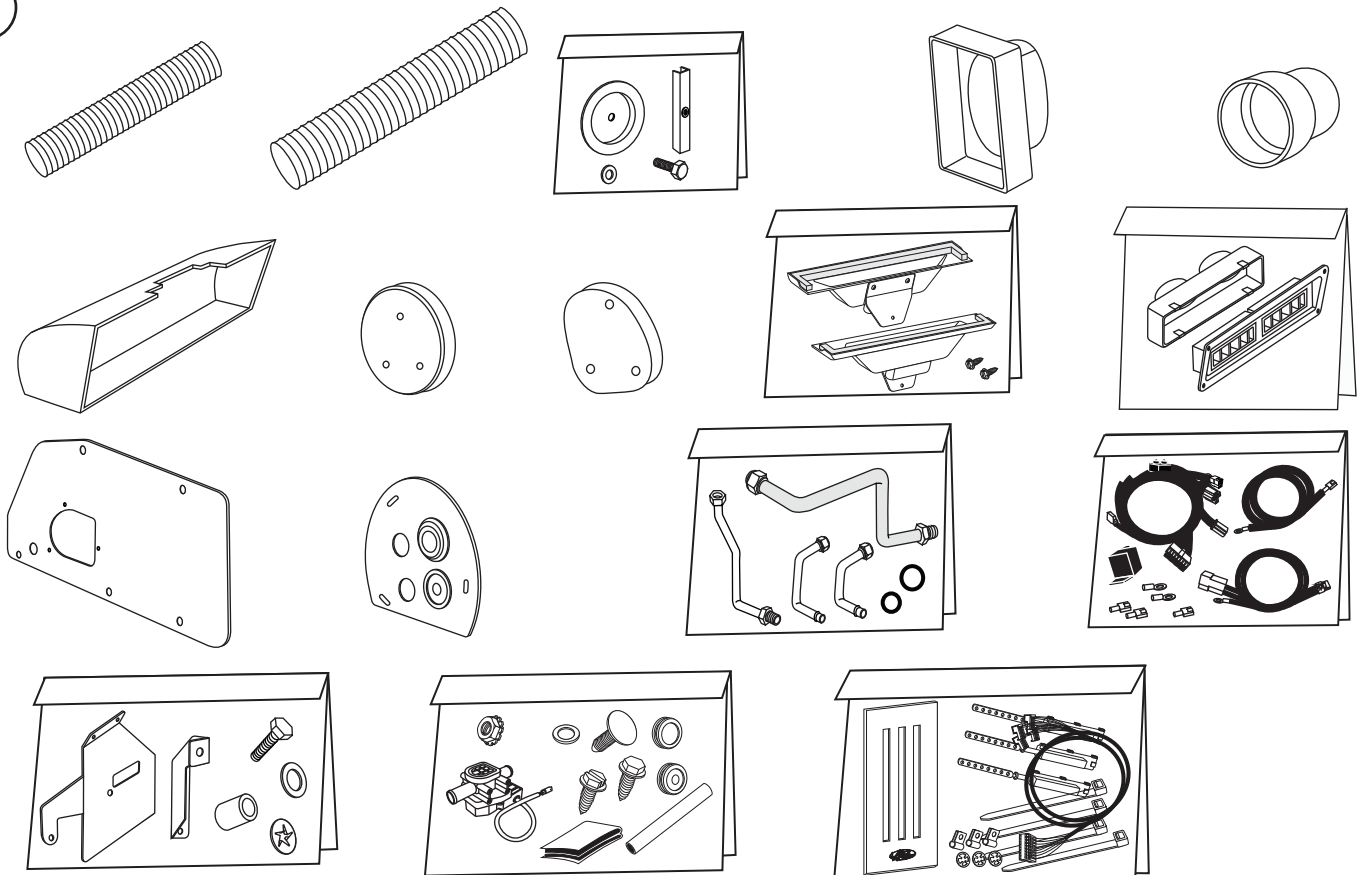
**** Before beginning installation, open all packages and check contents of shipment.
Please report any shortages directly to Vintage Air within 15 days. After 15 days,
Vintage Air will not be responsible for missing or damaged items.**

1



**Gen IV Evaporator
Sub Case
762169**

2



**Accessory Kit
781169**

**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. (1 lb., 12 oz.) 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.

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. Drain radiator.
3. Remove OEM heater hoses.
4. Remove OEM heater cover (discard) (See Figure 1, Page 7). **NOTE:** The inner fender must be loosened and lowered. Remove (4) bolts from fender at the windshield and door area, and raise the fender to remove the blower motor.

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 heater assembly (discard) (See Figure 1, below).
2. Remove the OEM defrost duct (discard) (See Figure 1, below).
3. Remove the dashboard (retain) (See Figure 1, below).
4. Remove the steering column bottom cover (retain) (See Figure 1, below).
5. Remove the driver and passenger side vent ducts (discard) (See Figure 1, below).
6. Remove the OEM duct hoses (discard) (See Figure 1, below).
7. Remove the glove box door (retain) (See Figure 1, below).
8. Remove the glove box (discard) (See Figure 1, below).
9. Remove the instrument panel (retain) (See Figure 1, below).
10. Remove the OEM control panel (retain). **NOTE: Refer to control panel instructions for installation of controls.**
11. Lower the steering column.

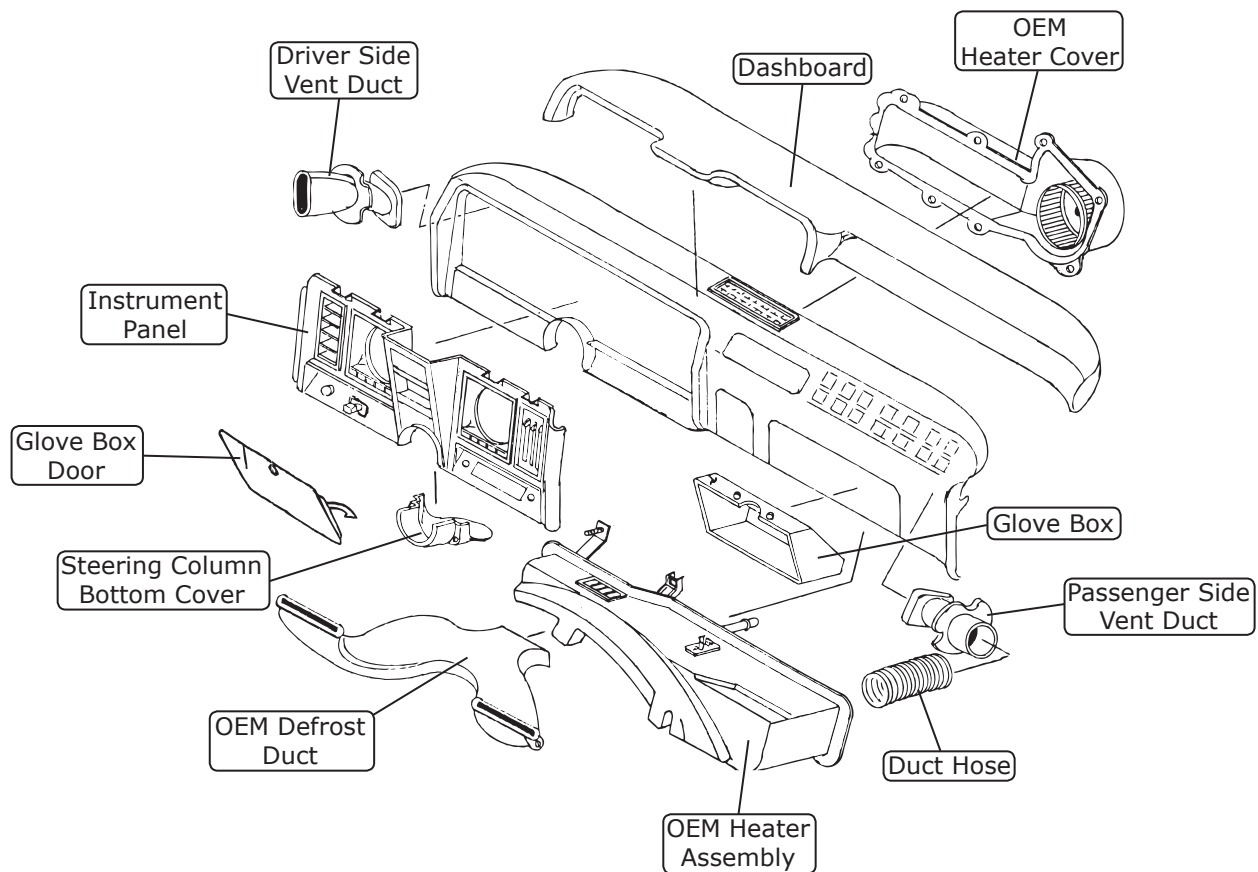


Figure 1



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Evaporator Mounting Holes

1. Cut out the evaporator bracket template on Page 26, and tape together as shown on template. Place the template onto the inner cowl under the dash by aligning the left side of the template against the speaker bracket as shown in Figure 2, below. Fold the template to follow the contour of the inner cowl. Make sure the upper left corner of the template aligns with the left side of the defrost opening in the dash as shown in Figures 2 & 2a, below.
2. Once the template is aligned correctly and taped into place, mark the mounting holes on the inner cowl. After marking the hole locations, drill (2) 3/16" holes in the inner cowl for the evaporator front mounting bracket (See Figure 2, below).

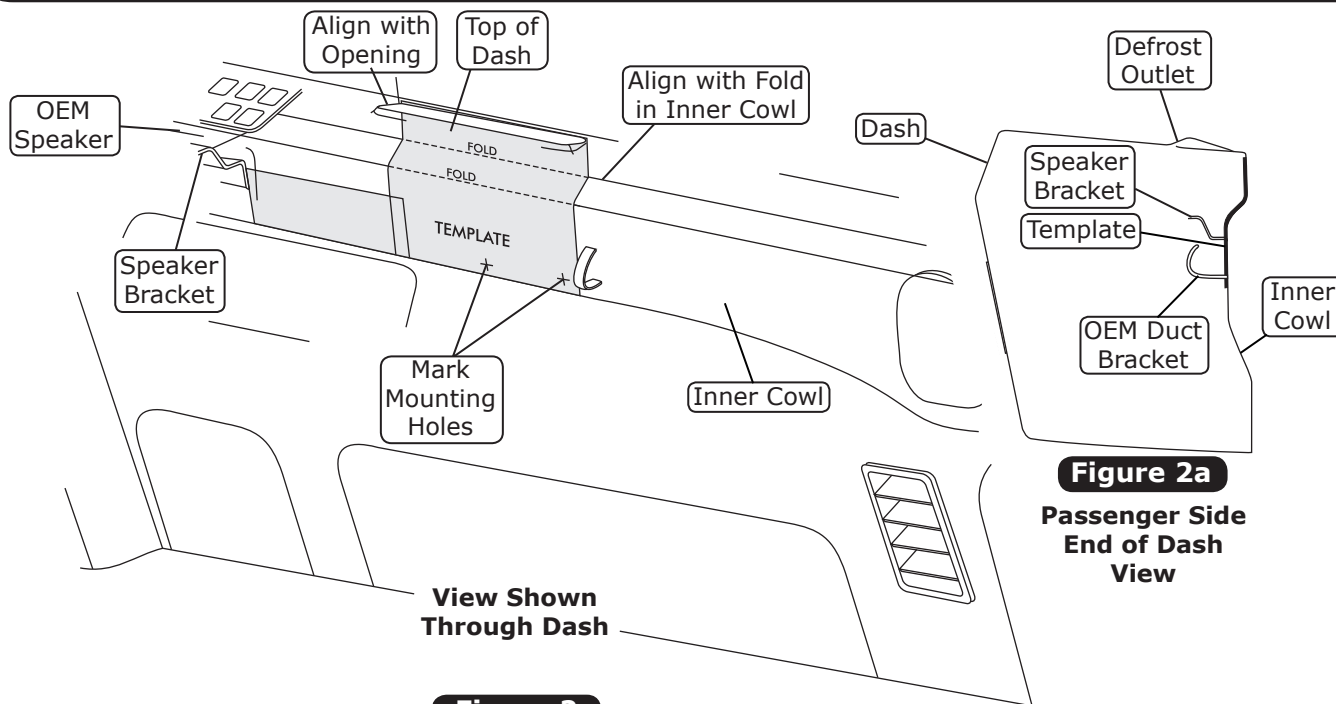


Figure 2

Figure 2a
Passenger Side
End of Dash
View

Defrost Duct & Fresh Air Cover Installation

1. Apply a 1/4" bead of silicone to mating surface of the driver and passenger side fresh air covers, and install using OEM hardware to secure (See Figure 3, below).
2. Install the defrost ducts under the dash as shown in Figure 3, below. Align each defrost duct with the defrost opening in the dash, and hold in place. Using the bracket as a template, drill a 7/64" hole. Secure each defrost duct using a #10 x 1/2" sheet metal screw as shown in Figure 3, below.

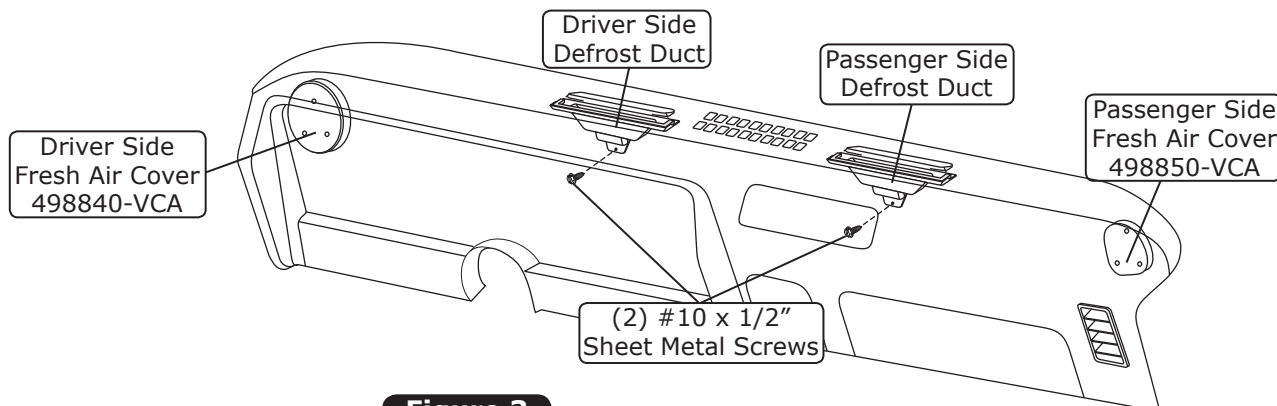


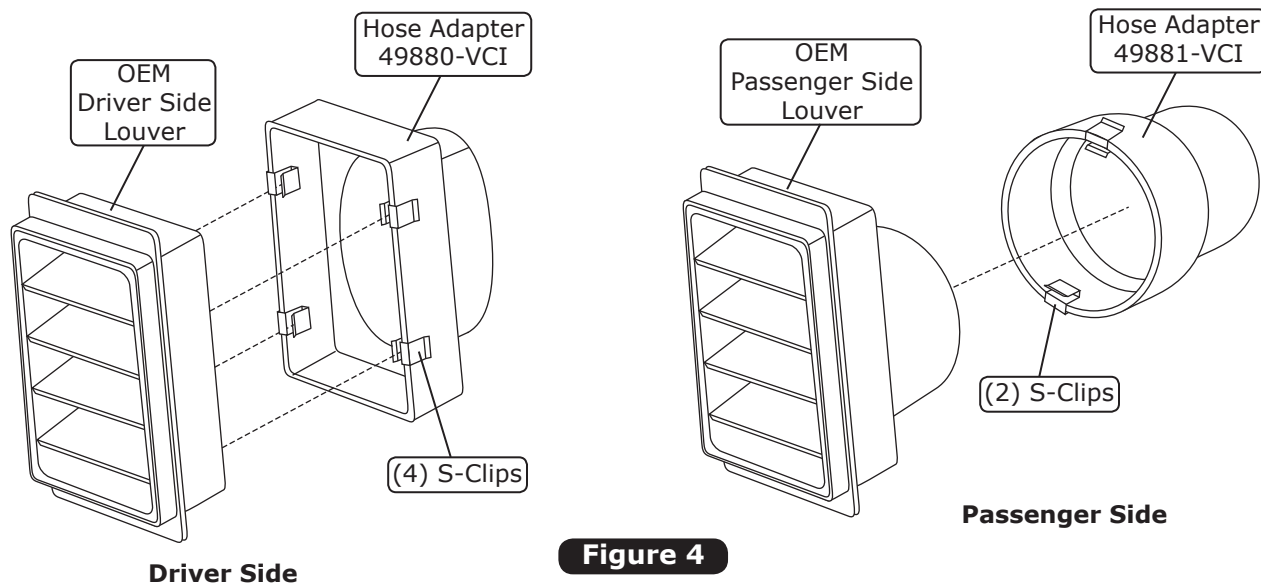
Figure 3



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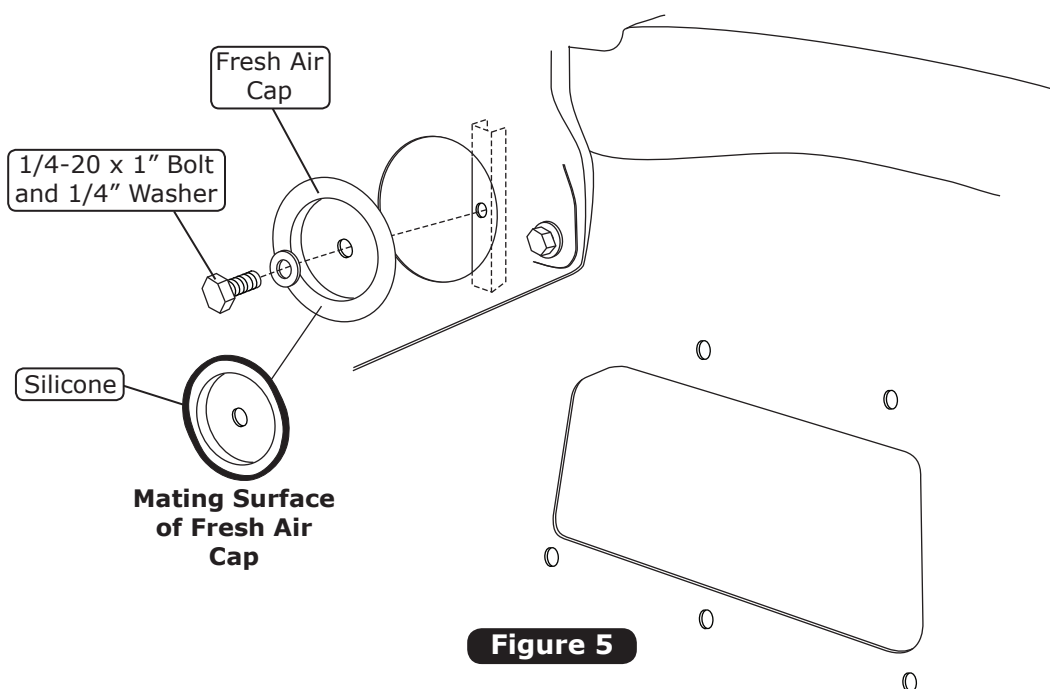
Hose Adapter Installation

1. Install (4) S-clips onto the driver side hose adapter and (2) S-clips onto the passenger side hose adapter as shown in Figure 4, below.
2. Install the driver & passenger side hose adapters onto the OEM louvers (See Figure 4, below).



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 5, below.
 2. Attach the fresh air cap to the firewall using a 1/4-20 x 1" bolt and a 1/4" washer as shown in Figure 5, below.
- NOTE: The fresh air cap installs onto the engine side of the firewall.**



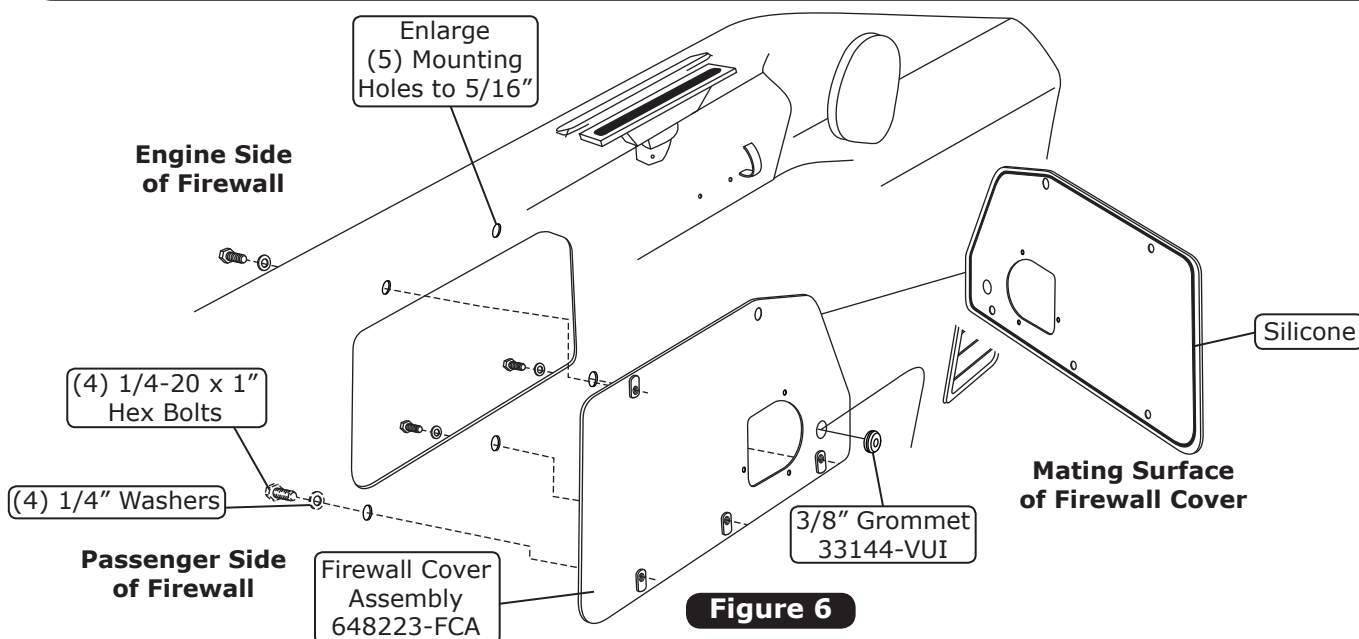


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Firewall Cover Installation

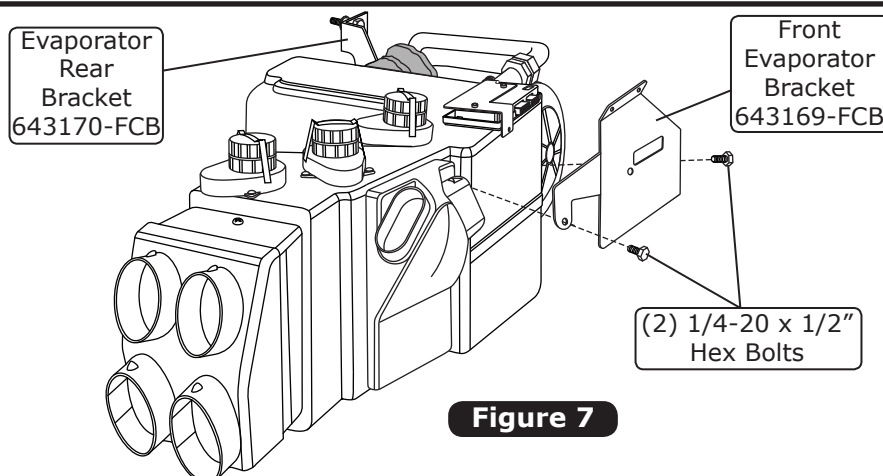
NOTE: To ensure a watertight seal between the passenger compartment and the vehicle exterior, for all bolts passing through the firewall, Vintage Air recommends coating the threads with silicone prior to installation.

1. Enlarge the (5) mounting holes on the firewall to 5/16" (See Figure 6, below).
2. Install a 3/8" grommet onto the firewall cover assembly (See Figure 6, below).
3. Apply a 1/4" bead of silicone around the mating surface of the firewall cover as shown in Figure 6, below.
4. From the passenger compartment, install the firewall cover onto the firewall. From the engine compartment, secure the firewall cover to the firewall using (4) 1/4-20 x 1" hex bolts and (4) 1/4" washers as shown in Figure 6, below.



Evaporator Bracket & Evaporator Hardline Installation

1. On a workbench, install the evaporator rear bracket using (2) 1/4-20 x 1/2" hex bolts as shown in Figure 9, Page 12.
2. Install the A/C and heater hardlines with properly lubricated O-rings (See Figure 15, Page 15, and Figure 9, Page 12).
3. Install the front mounting bracket onto the evaporator using (2) 1/4-20 x 1/2" hex bolts as shown in Figure 7, below.





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Evaporator Installation

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

1. Lift the evaporator unit up under the dashboard, and secure it loosely to the firewall from the engine compartment using a 1/4-20 nut and a 1/4" washer as shown in Figure 8, below.
2. Using (2) #14 x 3/4" sheet metal screws, secure the front evaporator mounting bracket to the inner cowl (See Figure 8, below). **NOTE: To ensure proper drainage, it is very important that the evaporator is level, both left-right and fore-aft. Check for level on the flat portions of the case around the drain.**
3. Verify that the evaporator unit is level and square to the dash; then tighten all mounting bolts. **NOTE: Tighten the bolt on the firewall first. Then tighten the front mounting bracket.**

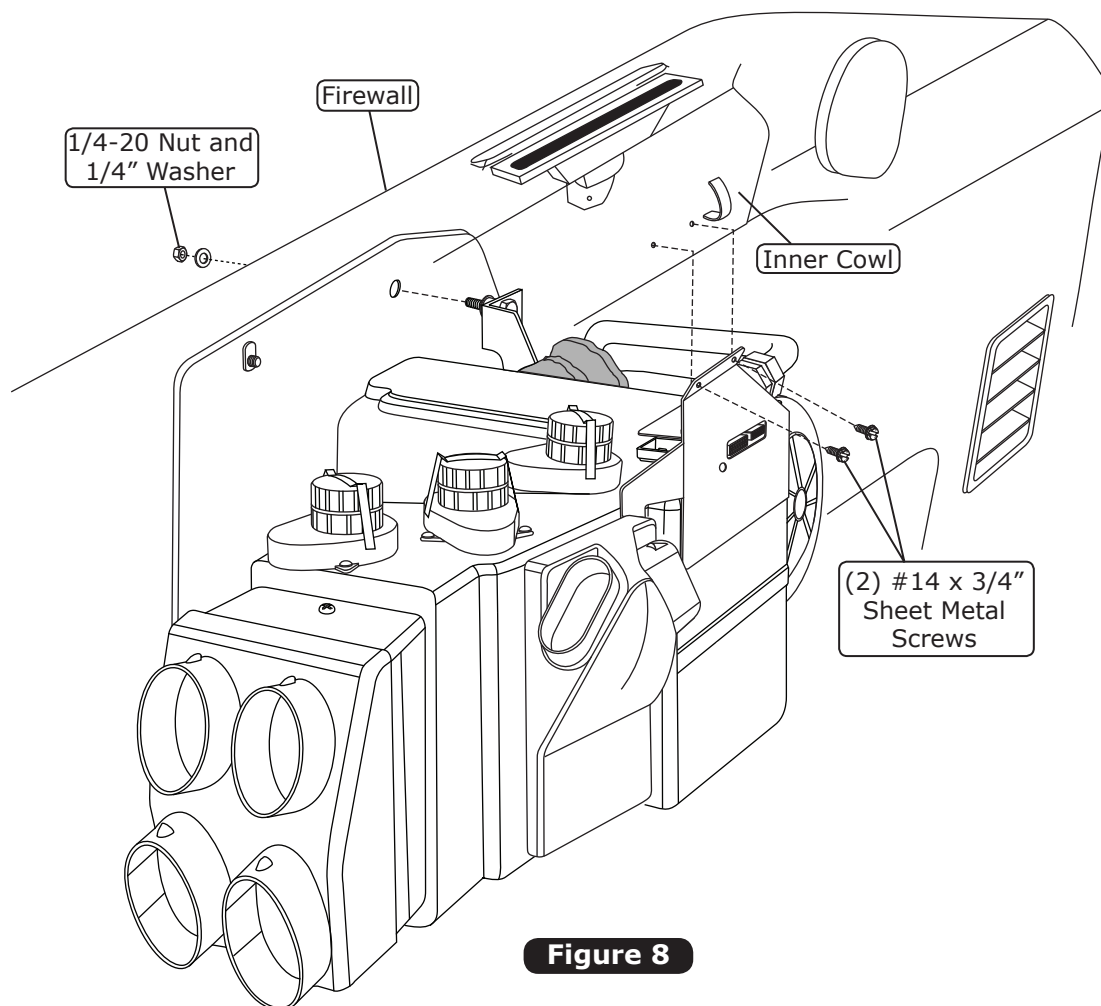


Figure 8



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Evaporator Bracket & Evaporator Hardline Installation (Cont.)

NOTE: After installing the #10 hardline, wrap all exposed metal (fittings & tube) with supplied press tape.

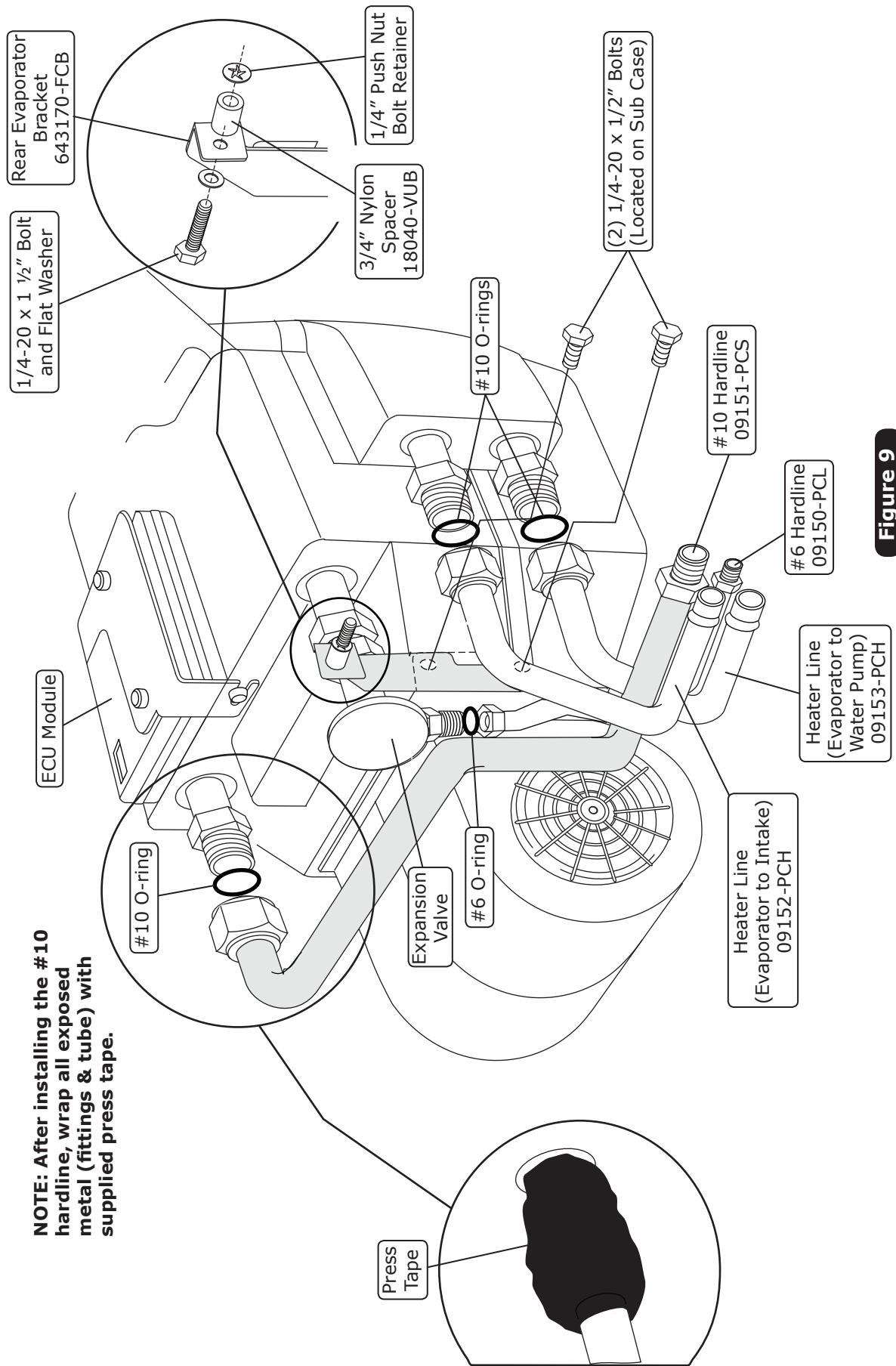


Figure 9



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Center Louver Installation

1. Cut out the center louver template on Page 25. Mark the dash as shown in Figure 10, below, and align the left side of the template with the mark. Align the bottom of the template with the bottom of the dash as shown in Figure 10a, below.
2. Mark around the edge of the template, and remove the template.
3. Cut an opening into the dash as shown in Figure 10b, below.
4. Install the center louver duct hose adapter onto the center louver bezel using (2) S-clips as shown in Figure 11, below.
5. Reinstall the dash.

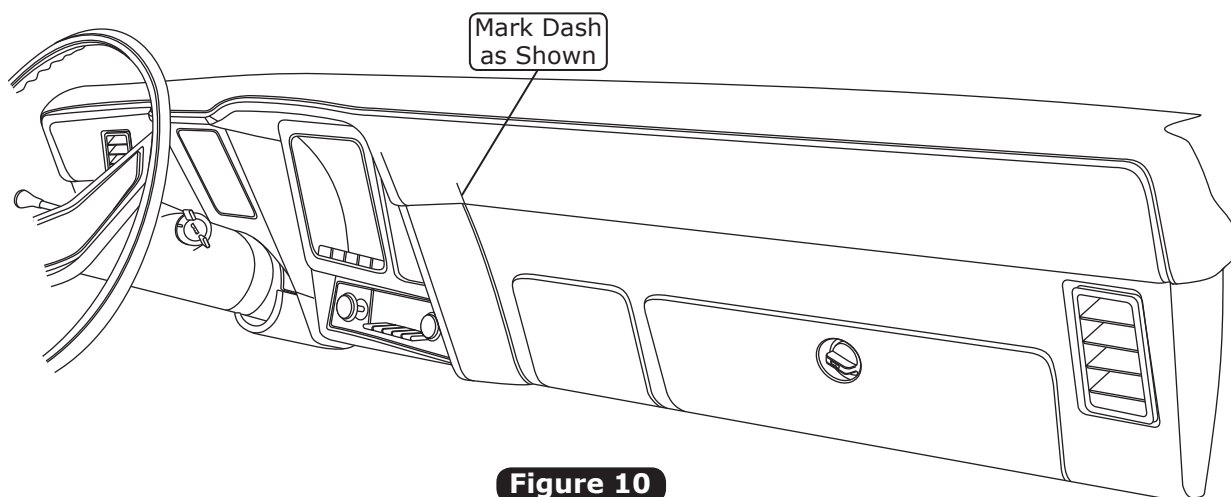


Figure 10

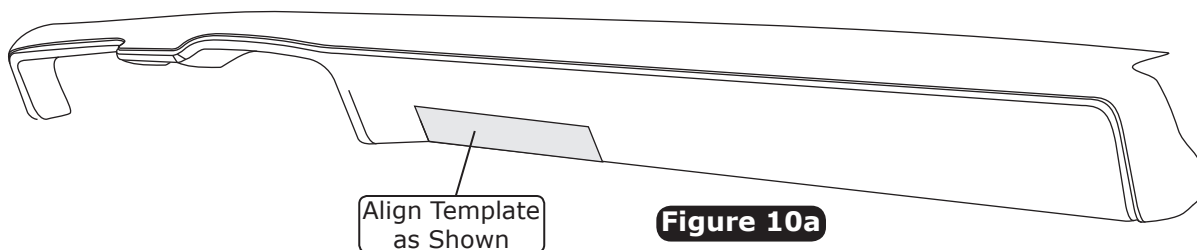


Figure 10a

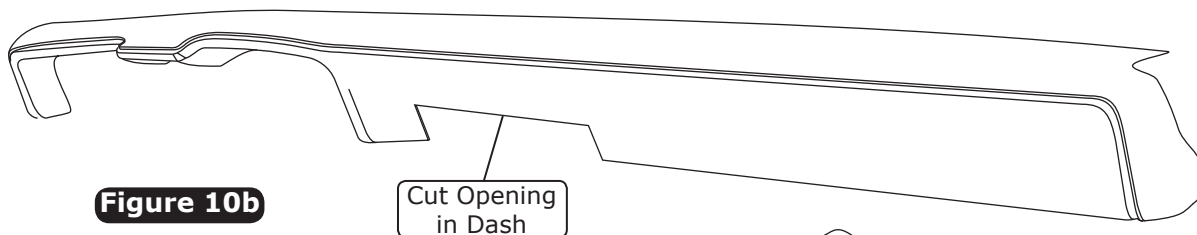


Figure 10b

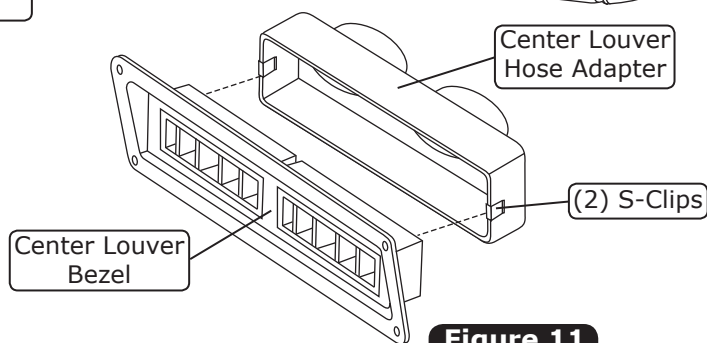


Figure 11



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Center Louver Installation (Cont.)

1. Attach (2) 25" lengths of 2" duct hose to the center louver as shown in Figure 12, below.
2. Using (4) #4 x 3/4" countersunk screws, secure the center louver assembly to the dash as shown in Figure 12a, below.

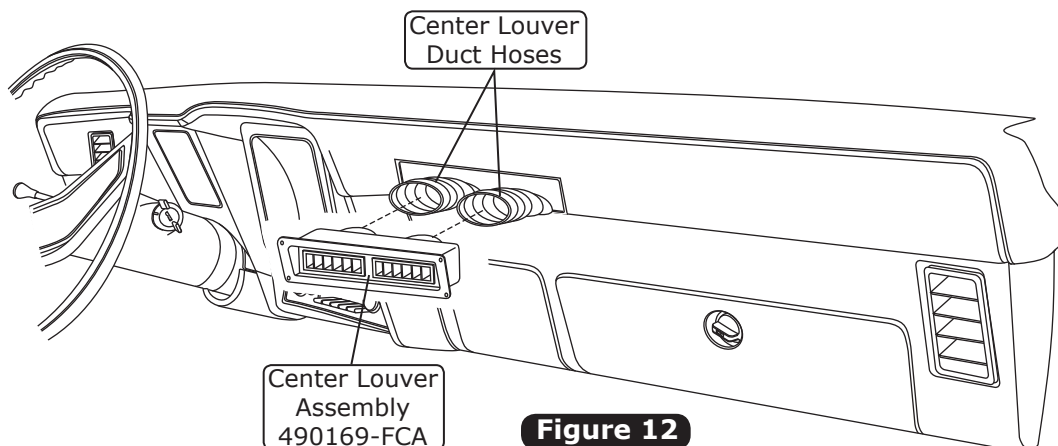


Figure 12

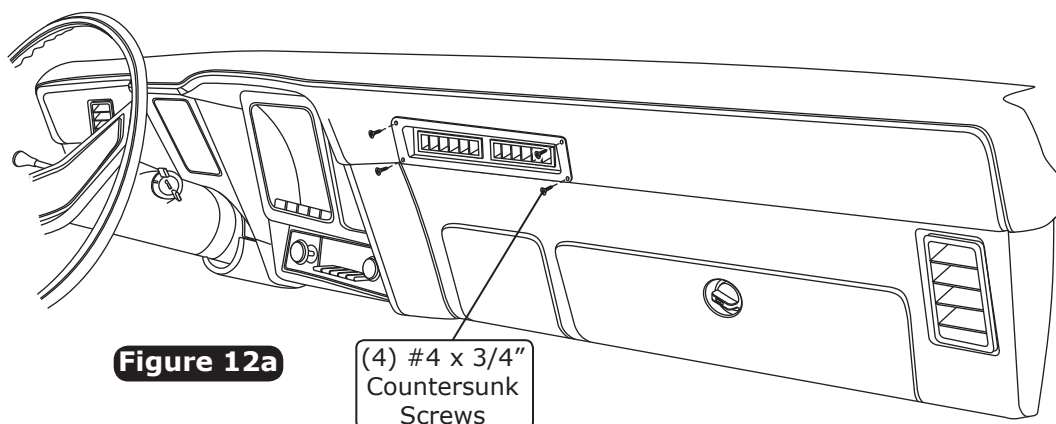


Figure 12a

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 the firewall. Measure 1" down and drill a 5/8" hole through the firewall (See Figure 13, below).
3. Install the drain hose onto the outlet on the bottom of the evaporator unit, and route it through the firewall (See Figure 13, below).

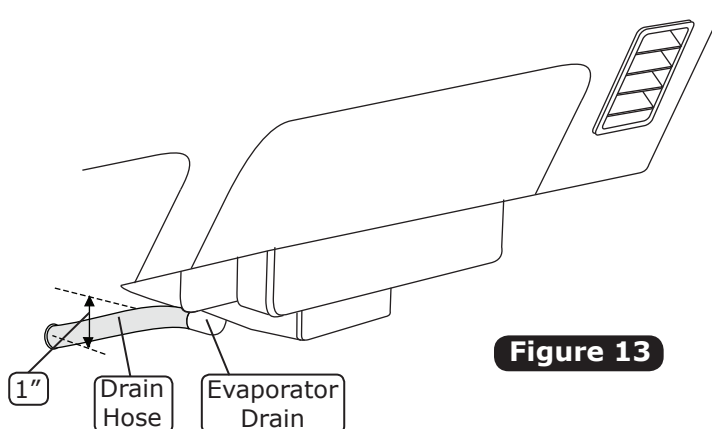


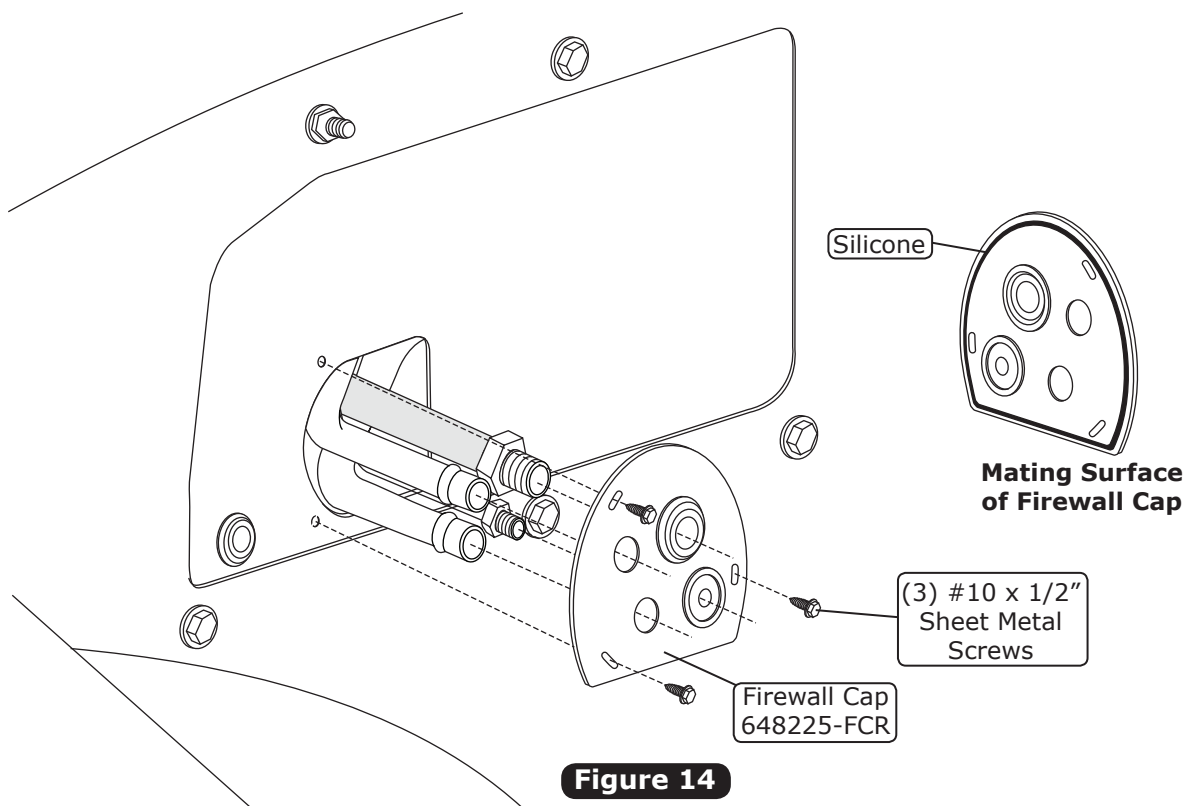
Figure 13



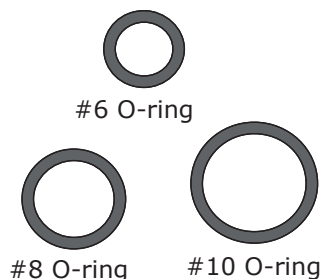
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Firewall Cap Installation

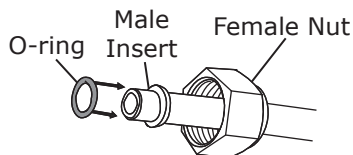
1. Apply a 1/4" bead of silicone around the mating surface of the firewall cap as shown in Figure 14, below.
2. Pass the lines through the firewall cap and secure the firewall cap to the firewall using (3) #10 x 1/2" sheet metal screws as shown in Figure 14, below.



Lubricating O-rings

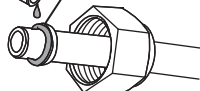


NOTE: Standard torque specifications:
#6: 11 to 13 ft-lb.
#8: 15 to 20 ft-lb.
#10: 21 to 27 ft-lb.



Supplied Oil
for O-rings

O-ring Installs
Over Male Insert
to Swaged Lip



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

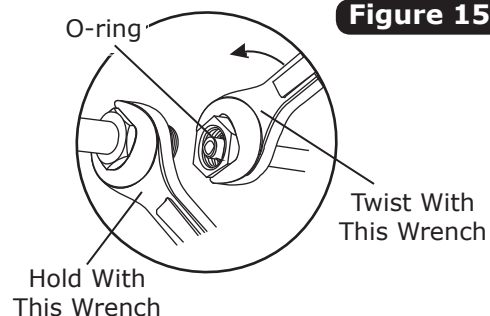


Figure 15



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A/C Hose Installation

Standard Hose Kit:

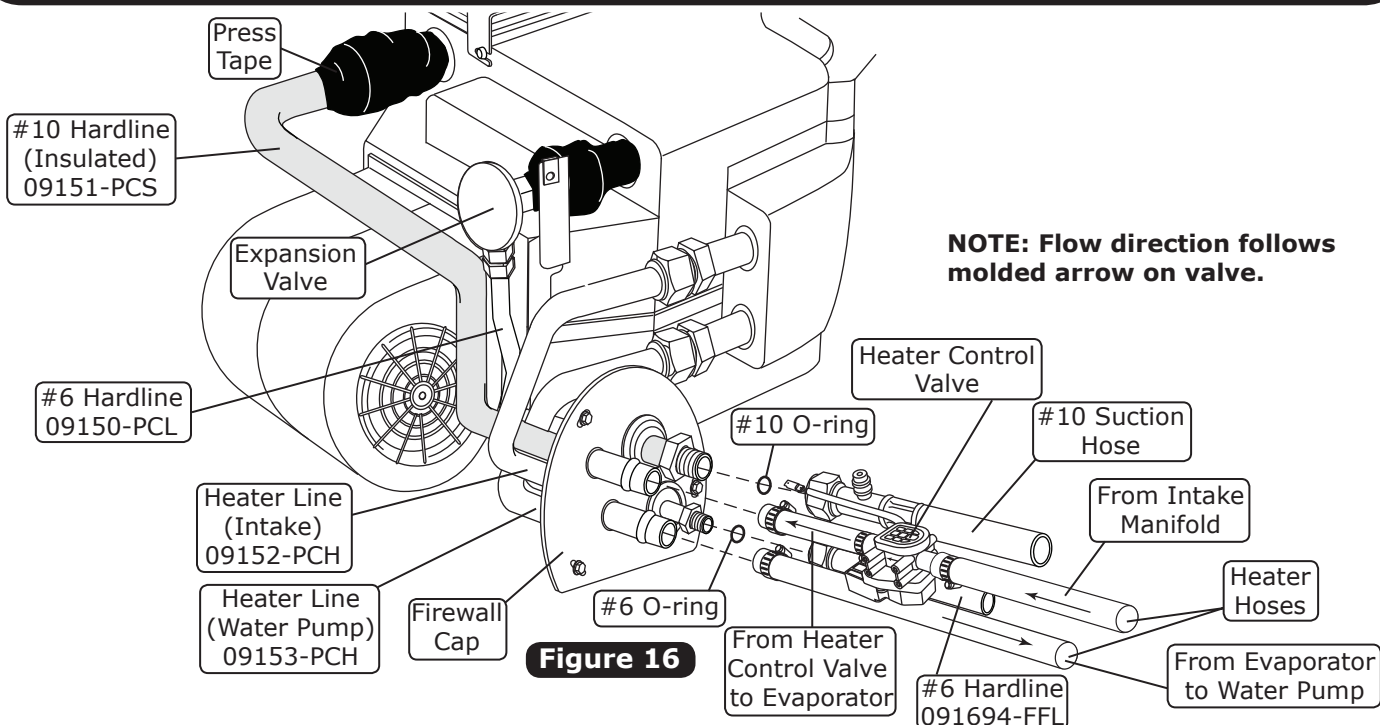
1. Locate the #8 compressor A/C hose. Lubricate (2) #8 O-rings (See Figure 15, Page 15) and connect the #8 135° fitting with service port to the #8 discharge port on the compressor (See Figure 17, Page 17). Then route the straight fitting to the #8 condenser hardline coming from under the radiator core support (See Figure 17, Page 17). Tighten each fitting connection as shown in Figure 15, Page 15.
2. Locate the #10 compressor A/C hose. Lubricate (2) #10 O-rings (See Figure 15, Page 15) and connect the #10 135° fitting to the #10 suction port on the compressor (See Figure 17, Page 17). Then route the straight fitting with service port to the #10 evaporator hardline coming through the firewall (See Figure 16, below). Tighten each fitting connection as shown in Figure 15, Page 15.
3. Locate the #6 evaporator hardline. Lubricate (2) #6 O-rings (See Figure 15, Page 15) and connect the hardline to the #6 hardline on the fenderwell coming under the radiator core support from the drier (See Figure 17, Page 17). Then route the other end of the hardline with lubricated O-ring to the #6 evaporator hardline coming through the firewall (See Figure 16, below). Tighten each fitting connection as shown in Figure 15, Page 15.
4. Use a #2 Adel clamp to secure the #6 evaporator hardline to the inner fender as shown in Figure 17b, Page 17. Secure the Adel clamp to the inner fender using a 10-32 x 1/2" pan head screw and a 10-32 nut.

Modified Hose Kit:

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

Heater Hose & Heater Control Valve Installation

1. Route a piece of heater hose from the lower heater core fitting to the water pump (See Figure 16, below, & Figure 17, Page 17). Secure using hose clamps.
2. Route a piece of heater hose from the intake to the heater control valve, and from the heater control valve to the upper heater core fitting (See Figure 16, below, & Figure 17, Page 17). **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.**
3. Use #2 and #10 Adel clamps to secure the #6 evaporator hardline and the #10 suction hose as shown in Figure 17a, Page 17. Secure the Adel clamps to the inner fender using a 10-32 x 1/2" pan head screw and a 10-32 nut (See Figure 17a, Page 17).





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A/C and 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.

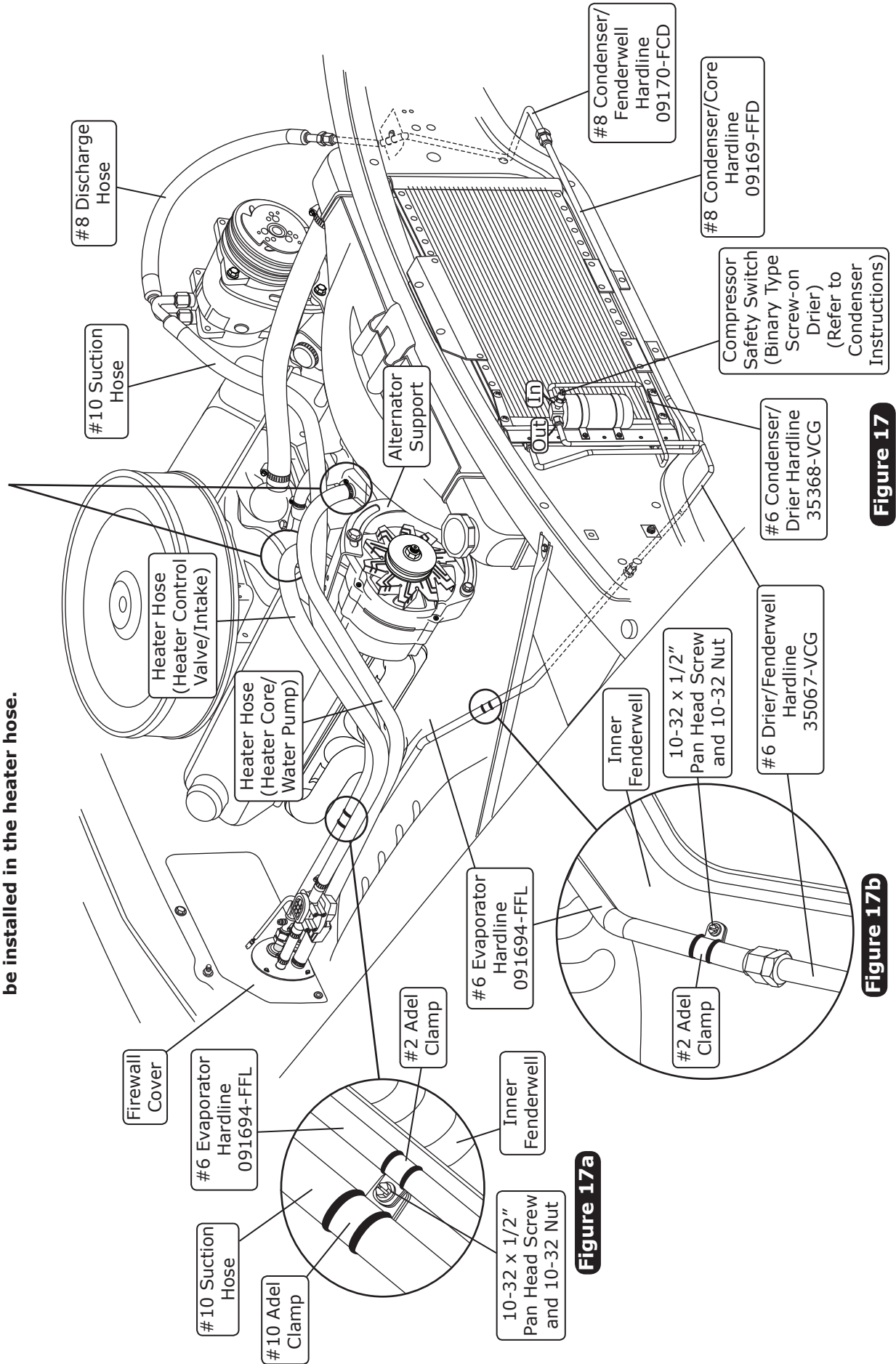


Figure 17a

Figure 17

Figure 17b



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Final Steps

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

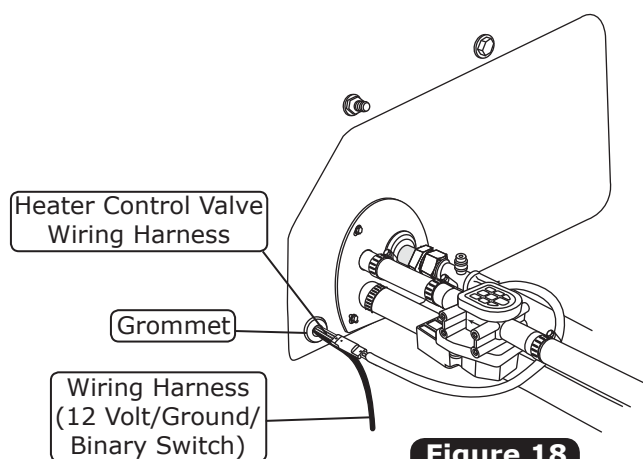


Figure 18

Glove Box Installation

1. Install the new glove box into the glove box opening, and secure it using #8 x 1/2" pan head screws through the OEM holes (See Figure 19, below).
2. Reinstall the glove box door using OEM hardware.

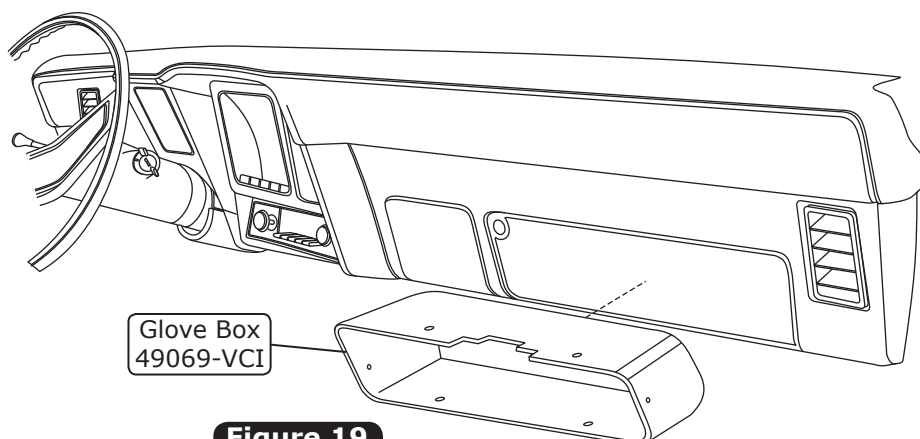


Figure 19



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Control Panel & Duct Hose Routing

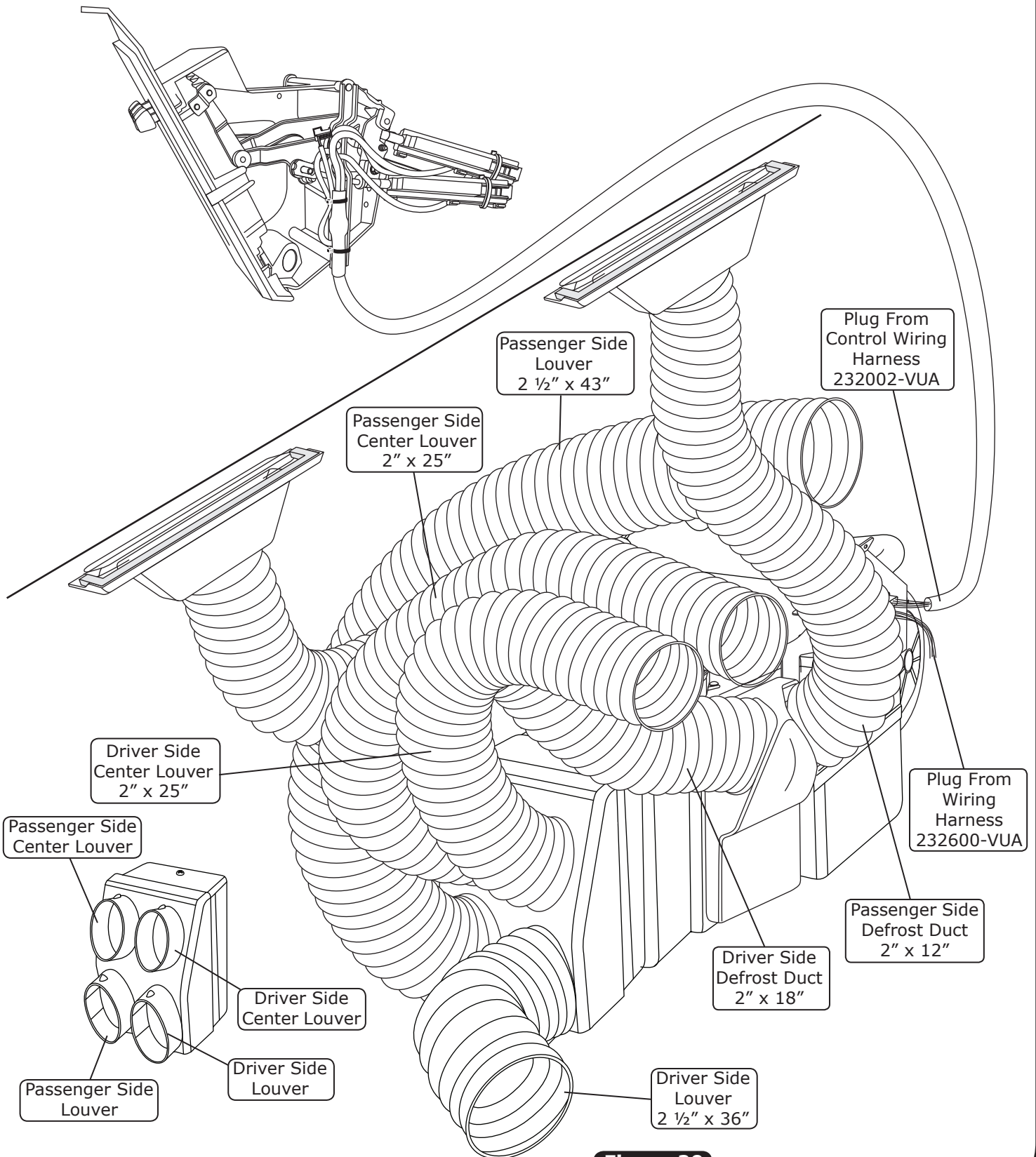
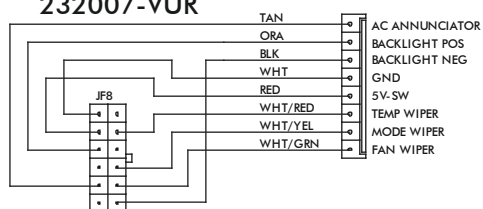


Figure 20

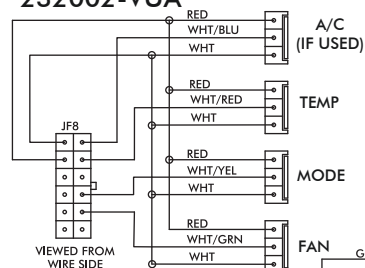


232007-VUR



VIEWED FROM WIRE SIDE

232002-VUA

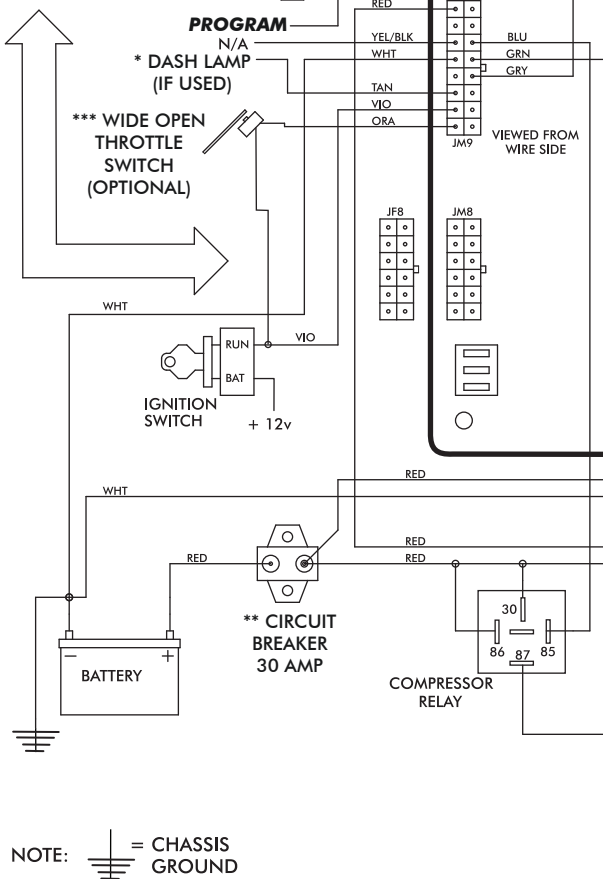



VIEWED FROM

PROGRAM

* DASH LAM
(IF USED)

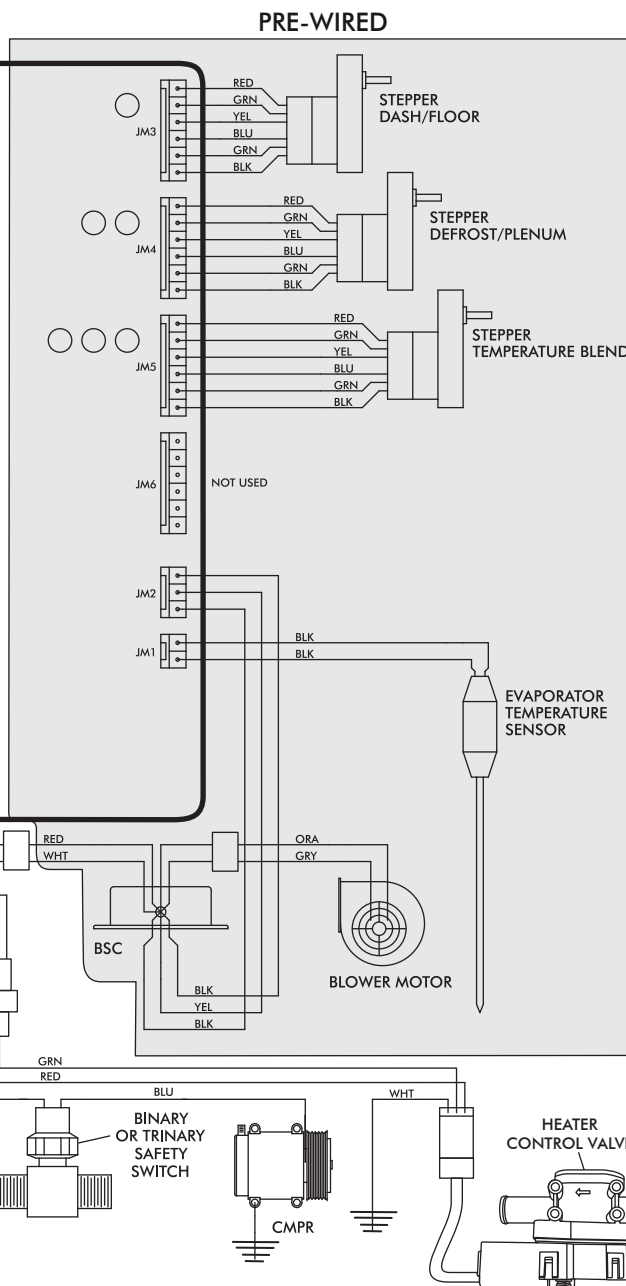
*** WIDE OPEN
THROTTLE
SWITCH
(OPTIONAL)



NOTE:  = CHASSIS GROUND

GEN IV ECU

GEN IV WIRING DIAGRAM
REV D, 5/6/2014



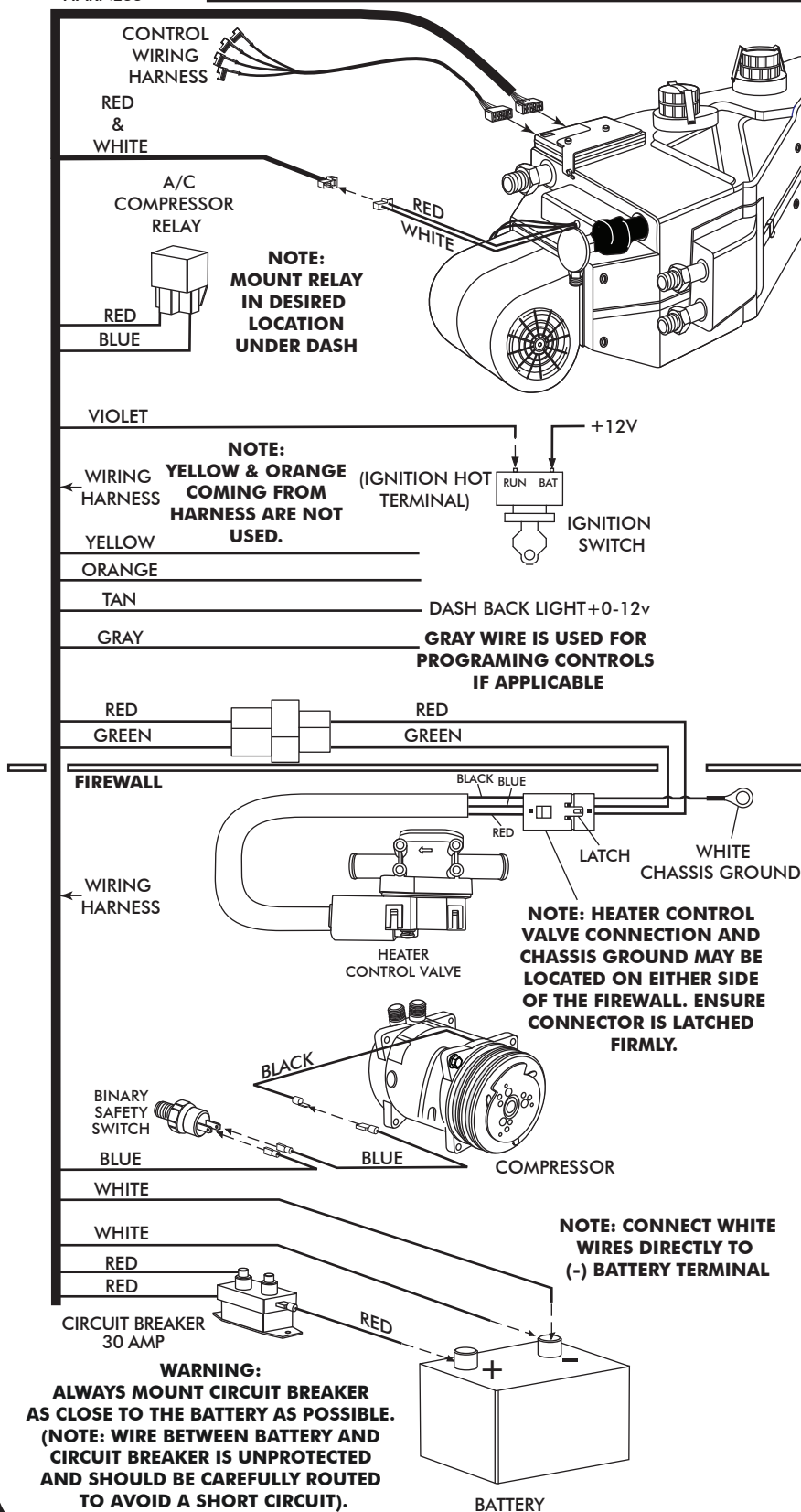
- **Dash Lamp Is Used Only With Type 232007-VUR Harness.**
- **Warning: Always Mount Circuit Breaker As Close to the Battery As Possible. (NOTE: Wire Between Battery and Circuit Breaker Is Unprotected and Should Be Carefully Routed to Avoid a Short Circuit).**
- **Wide Open Throttle Switch Contacts Close Only at Full Throttle, Which Disables A/C Compressor.**



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WIRING
HARNESS

Gen IV Wiring Connection Instruction



Ignition Switch:

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

Dash Light:

Tan Wire Used Only With Vintage Air Supplied Control Panel With LED Back Light.

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

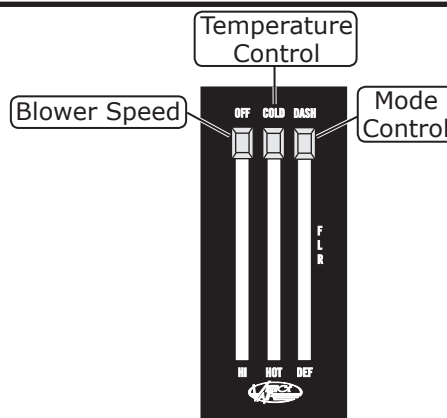
This lever controls blower speed, from OFF to HI.

Mode Control

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

Temperature Control

This lever controls the temperature, from HOT to COLD.



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.	
		Check for damaged ground wire (white) in control head harness.	Verify continuity to chassis ground with white control head wire at various points.	Loss of ground on this wire renders control head inoperable.
	All other functions work.	Check for damaged blower switch or potentiometer and associated wiring.		See blower switch check procedure.
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.	
		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).	No other part replacements should be necessary.
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.
		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/blue wire. Voltage should be between 0V and 5V, and will vary with pot lever position.
		Check for disconnected or faulty thermistor.	Check 2-pin connector at ECU housing.	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.
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.	
		Check for faulty A/C relay.	Replace relay.	



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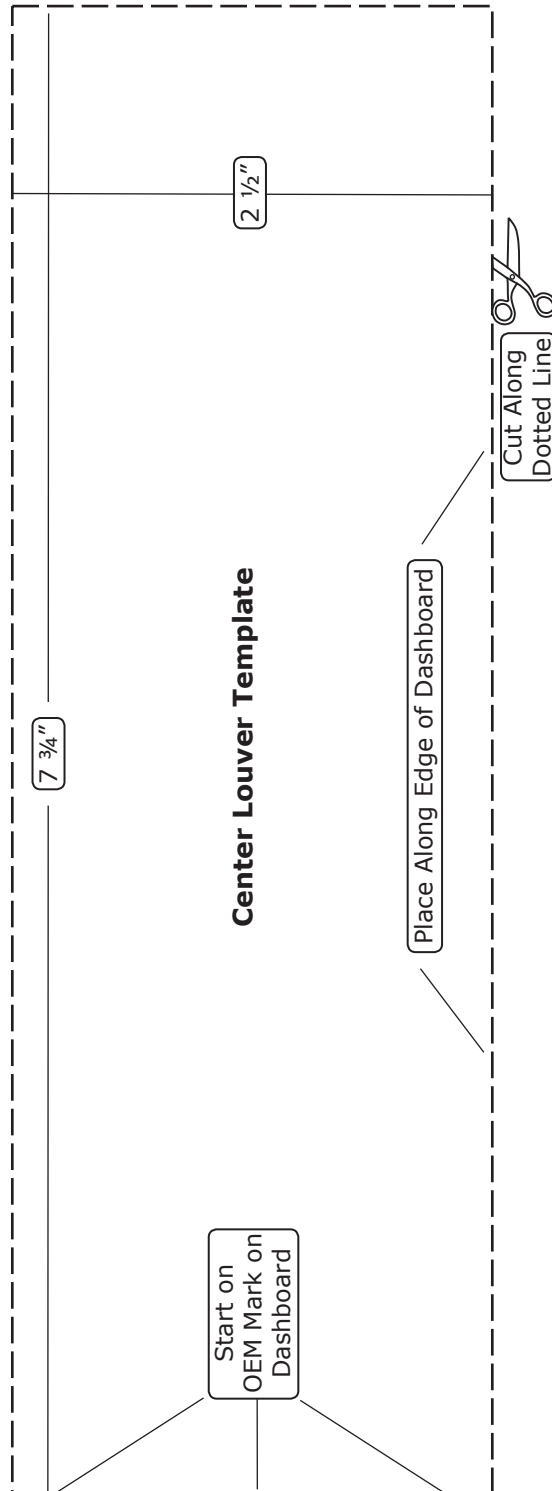
Troubleshooting Guide (Cont.)

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.	Will not turn on under any conditions.	Check for positive power at heater valve green wire and blower red wire. Check for ground on control head white wire.	
		Verify connections on power lead, ignition lead, and both white ground wires.		
		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.	No mode change at all.	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.
		Partial function of mode doors.	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.	Check for at least 12V at circuit breaker.	System shuts off blower at 10V. Poor connections or weak battery can cause shutdown at up to 11V.
		Battery voltage is less than 12V.	Check for faulty battery or alternator.	
			Ensure all system grounds and power connections are clean and tight.	
7.	Erratic functions of blower, mode, temp, etc.		Charge battery.	
			Check for damaged switch or pot and associated wiring.	
8.	When ignition is turned on, blower momentarily comes on, then shuts off. This occurs with the blower switch in the OFF position.		Run red power wire directly to battery.	

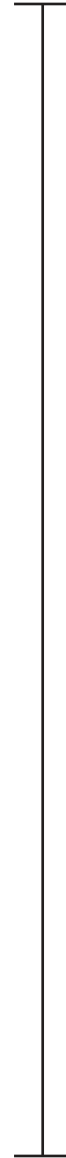


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Center Louver Template



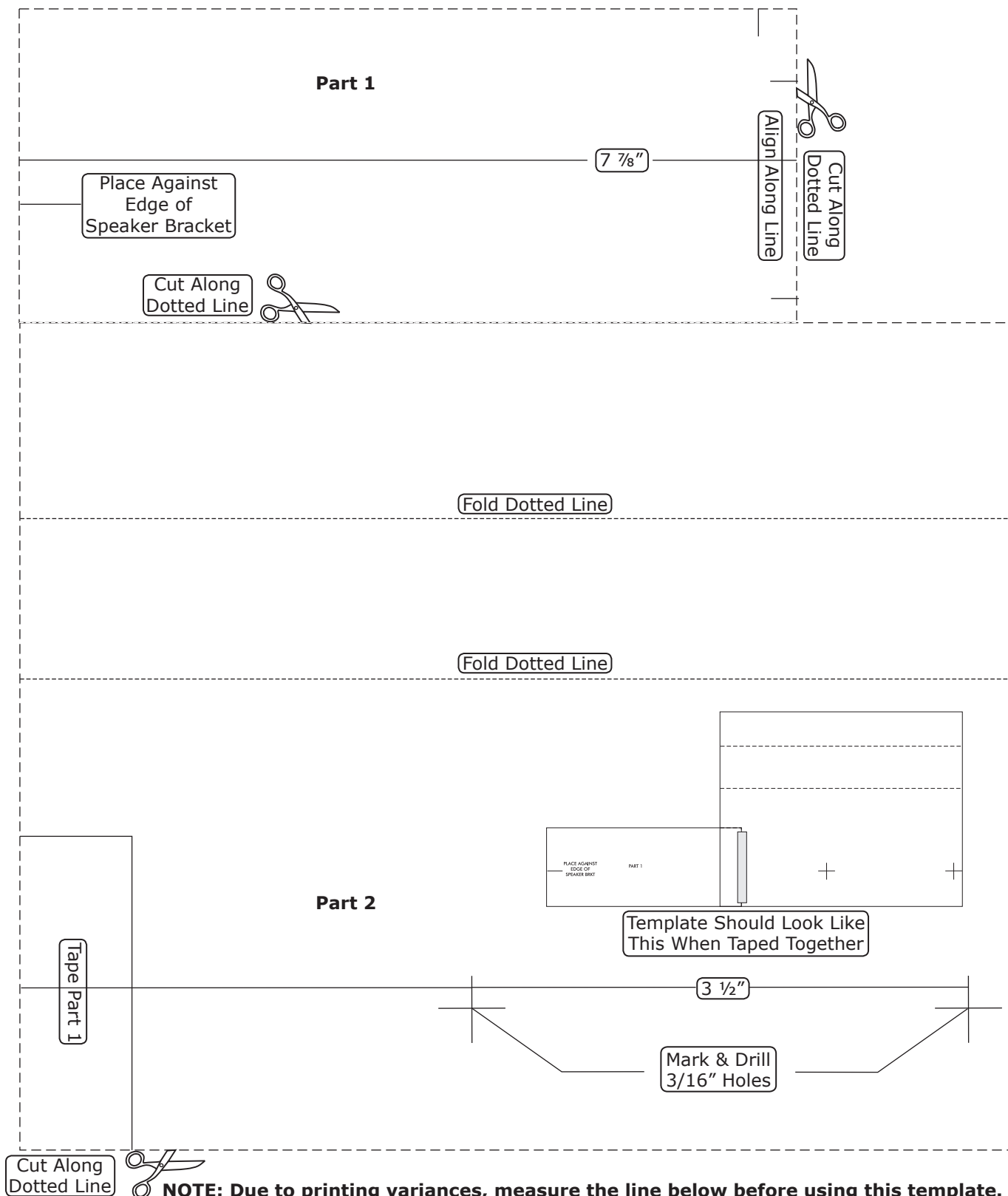
NOTE: Due to printing variances, measure the line below before using this template. If template is scaled properly, the line should measure 6 inches.





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Evaporator Bracket Template





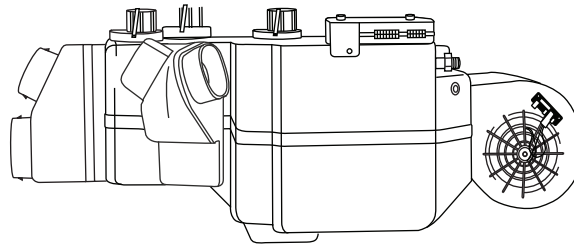
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Packing List: Evaporator Kit (561169)

No.	Qty.	Part No.	Description
1.	1	762169	Gen IV Evaporator Sub Case
2.	1	781169	Accessory Kit

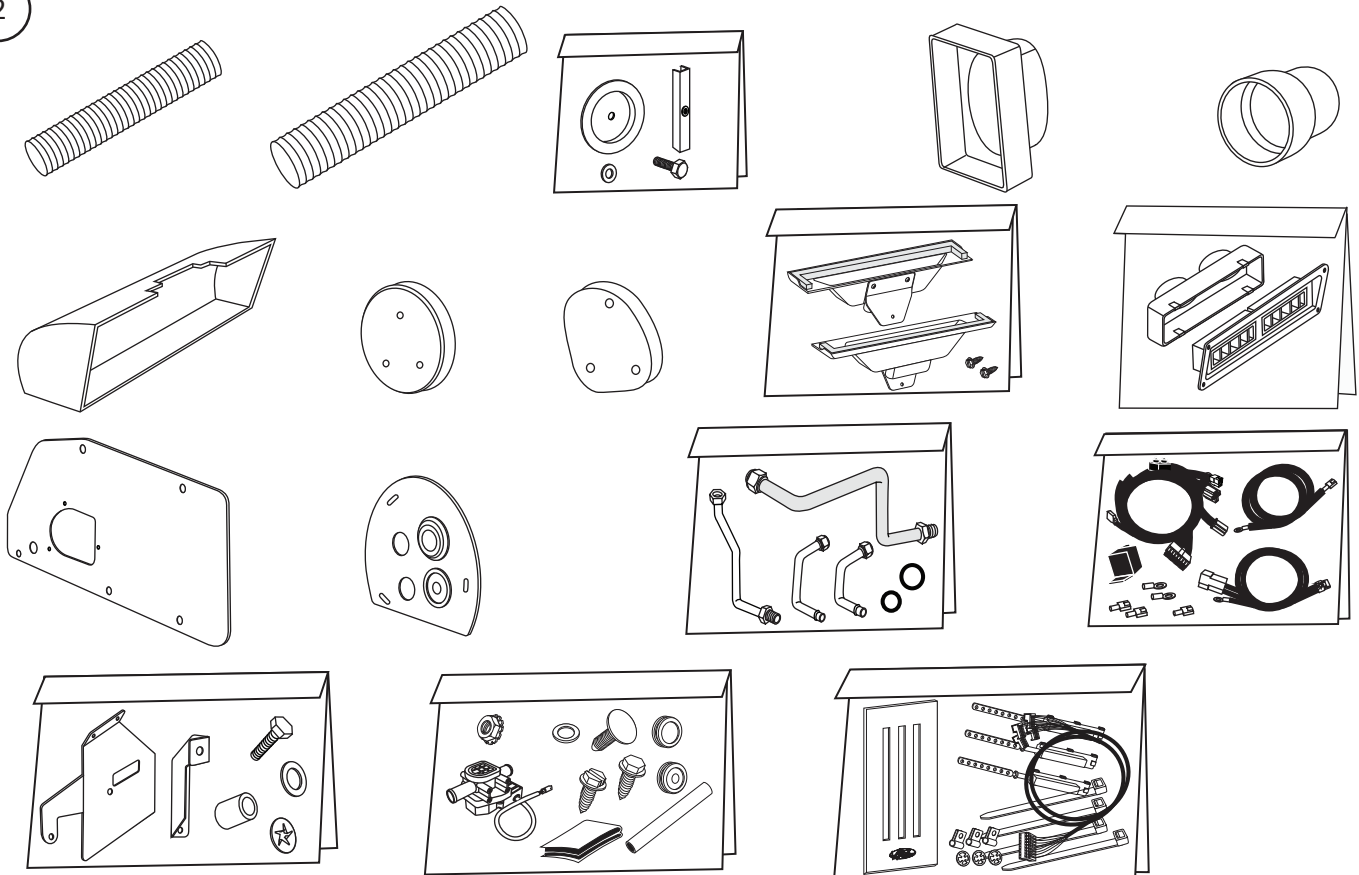
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Packed By: _____
Date: _____

1



**Gen IV Evaporator
Sub Case
762169**

2



**Accessory Kit
781169**

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