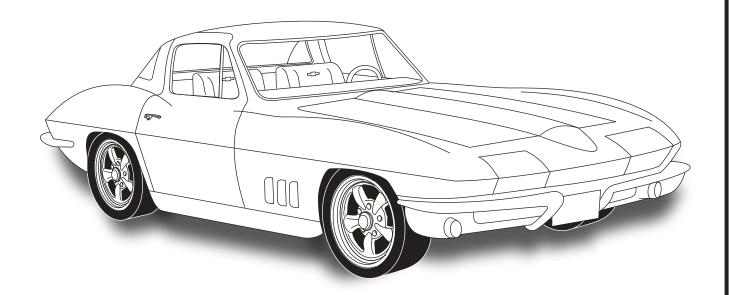


1967 CORVETTE

WITHOUT FACTORY AC w/ FRESH AIR CABLE 561165



18865 GOLL ST. - SAN ANTONIO, TX. - 78266 ph.210-654-7171 - fax 210-654-3113



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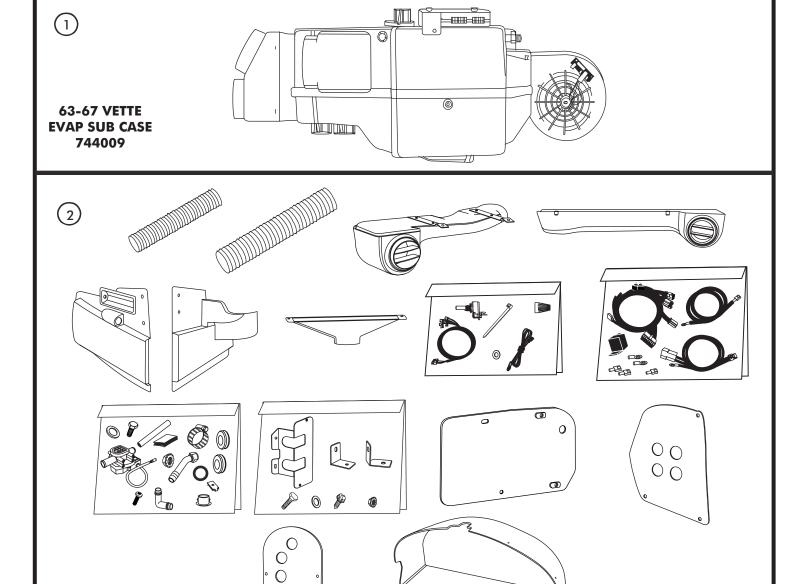


EVAPORATOR KIT PACKING LIST

EVAPORATOR KIT 561165

No.	QTY.	PART No.	DESCRIPTION
1.	1	744009	63-67 VETTE EVAP SUB CASE
2.	1	781065	ACC KIT 67 VETTE wo AC w/ FAC

** 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.



ACCESSORY KIT 781065

NOTE: IMAGES MAY NOT DEPICT ACTUAL PARTS AND QUANTITIES.
REFER TO PACKING LIST FOR ACTUAL PARTS AND QUANTITIES.



Important Notice—Please Read

For Maximum System Performance, Vintage Air Recommends the Following:

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.

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.

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:

Attention: The following system components are capped: Compressor, evaporator, condenser & drier. Caps may be <u>under pressure with dry nitrogen</u>. Be careful removing caps. Do not remove caps prior to installation. Removing caps prior to installation will cause components to collect moisture and lead to premature failure and reduced performance.

Evacuate the system for 35-45 minutes with system components (Drier, compressor, evaporator and condenser) at a temperature of at least 85° F. On a cool day, the components can be heated with a heat gun \underline{OR} by running the engine with the heater on before evacuating. Leak check and charge to specifications.

Vintage Air Systems Are Designed to Operate With R134a Refrigerant Only! Use of Any Other Refrigerants Is a Fire Hazard and Could Damage Either Your Air Conditioning System or Your Vehicle.

Use of Any Other Refrigerants Will Void All Warranties of the Air Conditioning System and Components. Use of the Proper Type and Amount of Refrigerant Is Critical to Proper System Operation. Vintage Air Recommends Our Systems Be Charged By Weight With a Quality Charging Station or Scale.

Refrigerant Capacity for Vintage Air Systems:

(For other systems, consult manufacturer's guidelines)

R134a System

Charge with 1.8 lbs. (1 lb., 12 oz.) of refrigerant.

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).



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.

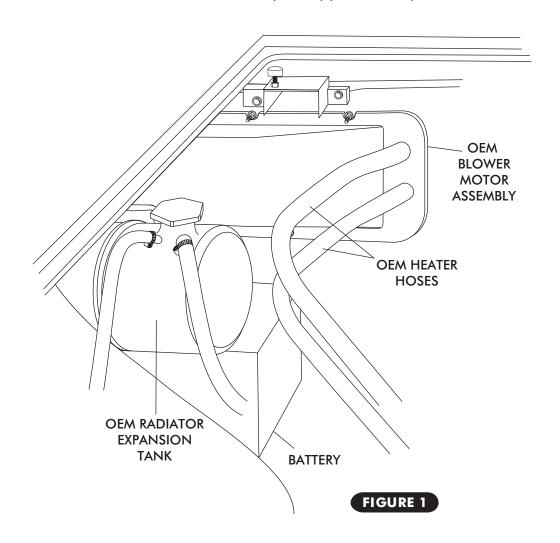
- Care must be taken, when installing the compressor lead, not to short it to ground.
 The compressor lead must not be connected to a condenser fan or to any other
 auxiliary device. Shorting to ground or connecting to a condenser fan or any other
 auxiliary device may damage wiring, the compressor relay, 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.

BEFORE STARTING THE INSTALLATION, CHECK THE FUNCTION OF THE VEHICLE (HORN, LIGHTS,ETC.) FOR PROPER OPERATIONS. STUDY THE INSTRUCTIONS, ILLUSTRATIONS, & DIAGRAMS.

ENGINE COMPARTMENT-

REMOVE THE FOLLOWING

- ☐ HOOD FOR EASE OF INSTALLATION
- ☐ DRAIN RADIATOR.
- ☐ DISCONNECT BATTERY AND REMOVE, IF MOUNTED ON PASSENGER SIDE. IF MOUNTED ON DRIVER SIDE, DISCONNECT (-) TERMINAL.
- ☐ OEM BLOWER MOTOR ASSEMBLY (UNDER HOOD) (DISCARD).
- ☐ OEM HEATER HOSES (DISCARD). SEE FIGURE 1.
- ☐ REMOVE OEM RADIATOR EXPANSION TANK (RETAIN) (IF EQUIPPED).



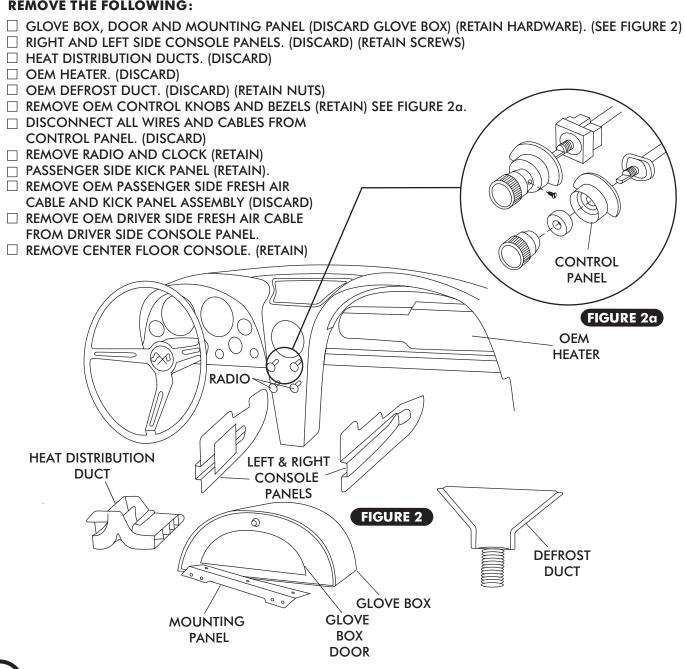


CONDENSER ASSEMBLY & INSTALLATION — REFER TO SEPARATE INSTRUCTIONS INCLUDED WITH THE CONDENSER KIT TO INSTALL THE CONDENSER. ☐ BINARY SWITCH INSTALLATION (REFER TO CONDENSER INSTRUCTIONS) COMPRESSOR & BRACKETS-☐ REFER TO SEPARATE INSTRUCTIONS INCLUDED WITH THE BRACKET KIT TO INSTALL THE COMPRESSOR

PASSENGER COMPARTMENT-

REMOVE THE FOLLOWING:

BRACKET.

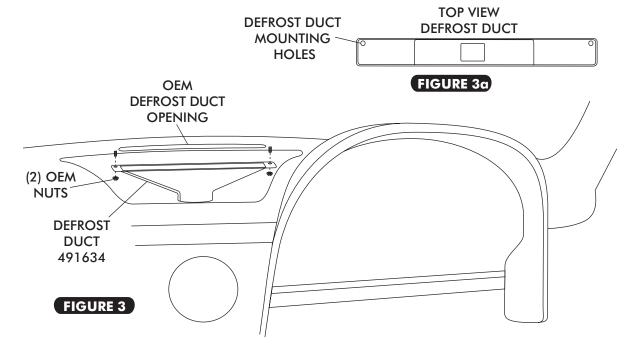




DEFROST DUCT INSTALLATION -

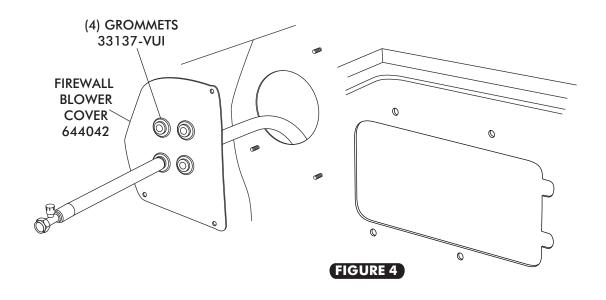
□ INSTALL DEFROST DUCT UNDER DASH AS SHOWN IN FIGURE 3 BELOW. SECURE USING OEM NUTS.

NOTE: DEFROST DUCT MOUNTING HOLES TOWARDS FIREWALL AS SHOWN BELOW IN FIGURE 3α.



FIREWALL BLOWER COVER INSTALLATION -

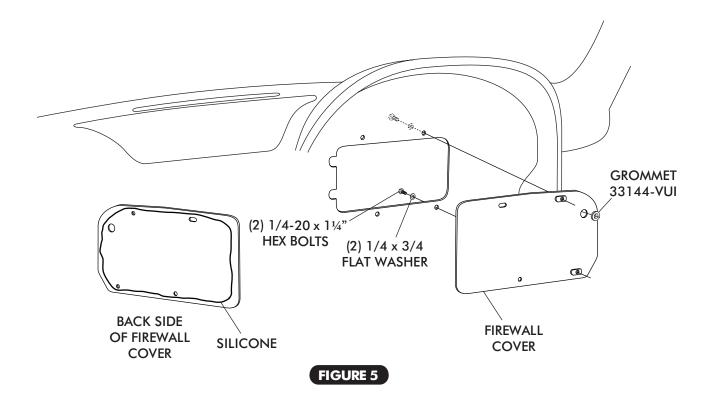
- ☐ INSTALL (4) GROMMETS IN FIREWALL BLOWER COVER. SEE FIGURE 4 BELOW
- ☐ ROUTE #10 HOSE THROUGH FIREWALL BLOWER COVER AS SHOWN BELOW.
- ☐ DO NOT ATTACH TO FIREWALL AT THIS TIME.





FIREWALL COVER INSTALLATION -

- ☐ APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF THE FIREWALL COVER AS SHOWN IN FIGURE 5, BELOW.
- ☐ FROM INSIDE THE CAR, INSTALL FIREWALL COVER ON FIREWALL USING (2) 1/4-20 x 1¹/₄" HEX BOLTS AND (2) FLAT WASHERS, SEE FIGURE 5, BELOW. (NOTE: USE SEAM SEALER TO FILL GAP BETWEEN COVER & LIP IN FIREWALL BEFORE PAINTING.)
- ☐ INSTALL 3/8 GROMMET IN FIREWALL COVER AS SHOWN BELOW.

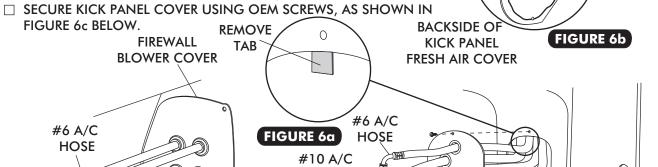




KICK PANEL COVER INSTALLATION -



- ☐ REMOVE TAB FROM KICK PANEL AS SHOWN IN FIGURE 6a.
- ☐ ROUTE A/C AND HEATER HOSE THROUGH FIREWALL BLOWER COVER AND KICK PANEL COVER AS SHOWN IN FIGURE 6 AND 6c, BELOW.
- ☐ APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF KICK PANEL COVER AS SHOWN IN FIGURE 6b, BELOW.



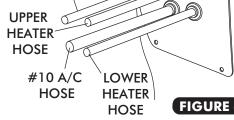
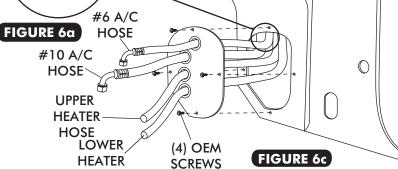


FIGURE 6

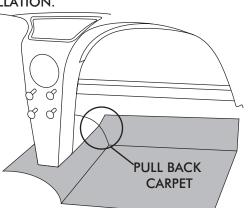


EVAPORATOR INSTALLATION -

ON A WORK BENCH INSTALL (2) HEATER FITTINGS WITH PROPERLY LUBRICATED O-RINGS. (SEE FIGURE 12, PAGE 13, AND FIGURE 8, PAGE 11.) FOR HEATER HOSE ROUTING SEE PAGE 12, 14 AND PAGE 15. **PS FRONT**

HOSE

- ☐ INSTALL EVAPORATOR REAR MOUNTING BRACKET ON EVAPORATOR USING (2)1/4-20 x 1/2 HEX BOLTS AS SHOWN IN FIGURE 8, PAGE 11.
- □ LAY EVAPORATOR SUBCASE ON PASSENGER SIDE FLOOR BOARD. INSTALL #6 AC HOSE & HEATER HOSE ON EVAPORATOR AS SHOWN IN FIGURE 9, PAGE 12.
- ☐ FOR EVAPORATOR INSTALLATION IT MAY BE NECESSARY TO PULL BACK CARPET FROM FIREWALL AS SHOWN BELOW. AFTER EVAPORATOR IS INSTALLED PUSH CARPET BACK IN PLACE.
- ☐ THIS WILL BE A VERY CLOSE FIT. TAKE CARE NOT TO DAMAGE STEPPER MOTORS DURING INSTALLATION.



(2)1/4-20 x 1/2" **HEX BOLT**

EVAPORATOR

BRACKET

644045

DR FRONT **EVAPORATOR BRACKET** 644044

SILICONE

(4) GROMMETS

33137-VUI

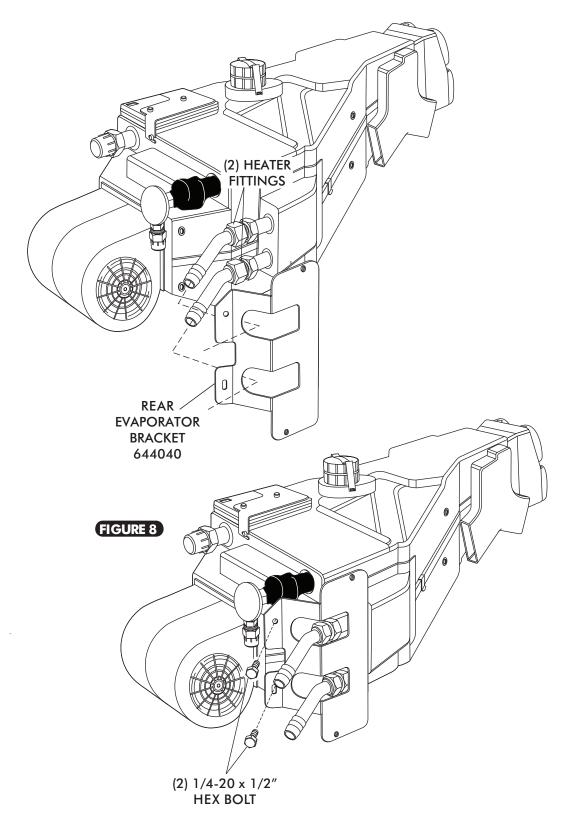
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FIGURE 7



BRACKET INSTALLATION-





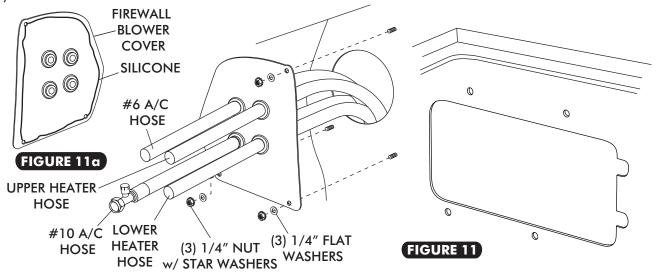
EVAPORATOR INSTALLATION CONT.-

☐ LIFT EVAPORATOR UNIT UP UNDER THE DASHBOARD. SECURE TO THE FIREWALL FROM THE ENGINE COMPARTMENT SIDE USING (2) 1/4-20 x 11/4" BOLTS AND (2) 1/4" FLAT WASHERS, SEE FIGURE 10 BELOW. ☐ INSTALL EVAPORATOR DRIVER/ PASSENGER FRONT MOUNTING BRACKETS ON EVAPORATOR USING (2) 1/4-20 x 1/2" HEX BOLTS AS SHOWN IN FIGURE 7, PAGE 10. ☐ SECURE PASSENGER SIDE FRONT MOUNTING BRACKET TO PASSENGER SIDE DASH BRACE USING #14 x 3/4" HEX SHEET METAL SCREW IN OEM HOLE. **NOTE:** IN SOME MODELS IT MAY REQUIRE TO DRILL 3/16" HOLE, USE DIMENSION BELOW. (SEE FIGURE 10 BELOW.) ☐ DRILL 3/16" HOLE IN PASSENGER SIDE DASH BRACE USING DRIVER SIDE FRONT MOUNTING BRACKET AS TEMPLATE. (SEE FIGURE 10 BELOW). ☐ SECURE DRIVER SIDE FRONT MOUNTING BRACKET TO PASSENGER SIDE DASH BRACE USING #14 x 3/4" HEX SHEET METAL SCREW. (SEE FIGURE 10 BELOW.) ☐ VERIFY THAT EVAPORATOR UNIT IS LEVEL AND SQUARE TO THE DASH, THEN TIGHTEN ALL MOUNTING BOLTS. (NOTE: TIGHTEN THE BOLTS ON FIREWALL FIRST, THEN THE FRONT MOUNTING BRACKETS.) ☐ CONNECT #10 AC HOSE TO EVAPORATOR AS SHOWN IN FIGURE 10. ☐ (NOTE: WRAP THE #10 FITTING CONNECTION **NOTE:** HEATER HOSE MODIFICATION WITH PRESS TAPE. SEE FIGURE 10.) **REFER TO FIGURE 9** - 45"-3/4" THIS END TO THIS END TO **RADIATOR EVAPORATOR EXPANSION TANK TOP FITTING** (IF EQUIPPED) OR #6 A/C WATER PUMP OPTION 1 **HOSE GATES 18084** 3/4" TO 5/8" x 60" HEATER HOSE **NOTE:** CUT TO LENGTH **OPTION 2 NOTE: THIS HEATER** 3/4" x 5/8" REDUCER FITTING KICK PANEL **HOSE TO RADIATOR** REQUIRED **COVER EXPANSION TANK** (NOT SUPPLIED) FIGURE 9 (IF EQUIPPED) OR WATER PUMP **HEATER HOSE** #10 A/C HOSE **PRESS TAPE** (2) 1/4-20 x 1¹/₄" PASSENGER SIDE BOLT' DASH BRACE (2) 1/4" FLAT **WASHERS** OEM HOLE (2) #14 x 3/4 DRILL SHEET METAL 3/16" **SCREWS** HOLE FIGURE 10

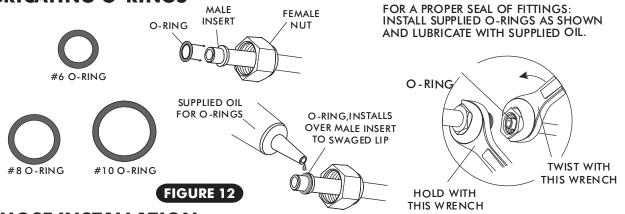


FIREWALL BLOWER COVER INSTALLATION CONT. -

- ☐ APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF THE FIREWALL BLOWER COVER AS SHOWN IN FIGURE 11a BELOW.
- ☐ ATTACH FIREWALL BLOWER COVER TO FIREWALL USING (3) 1/4" NUT w/ STAR WASHERS AND (3) FLAT WASHERS. SEE FIGURE 11 BELOW.



LUBRICATING O-RINGS -



A/C HOSE INSTALLATION

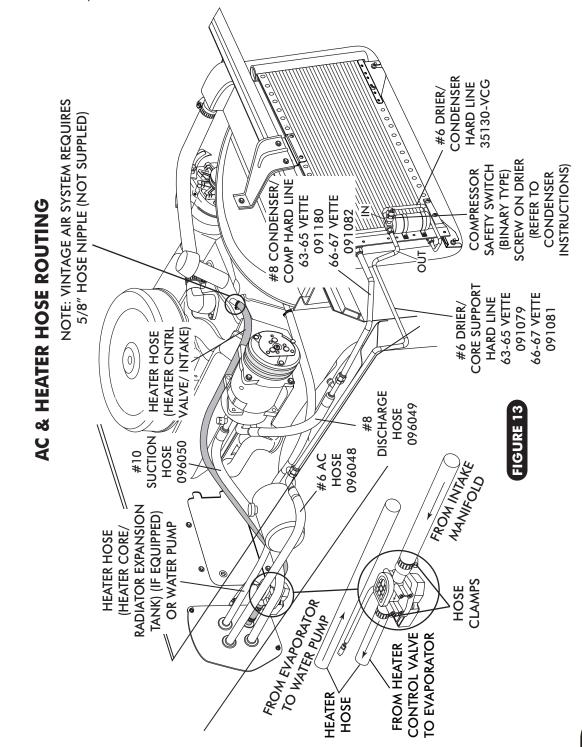
STANDARD HOSE KIT

- □ LOCATE THE #8 COMPRESSOR A/C HOSE. LUBRICATE (2) #8 O-RINGS (SEE FIGURE 12, ABOVE) AND CONNECT THE 135° FEMALE FITTING TO THE #8 DISCHARGE PORT ON THE COMPRESSOR. ROUTE THE STRAIGHT FEMALE FITTING w/ 134α SERVICE PORT TO THE #8 CONDENSER HARDLINE COMING THROUGH CORE SUPPORT. SEE FIGURE 13 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 12 ABOVE.
- □ LOCATE THE #10 COMPRESSOR A/C HOSE. LUBRICATE (2) #10 O-RINGS (SEE FIGURE 12, ABOVE) AND CONNECT THE #10 STRAIGHT FEMALE FITTING w/134a SERVICE PORT TO THE #10 SUCTION PORT ON THE COMPRESSOR. ROUTE THE 90° FEMALE FITTING TO THE #10 EVAPORATOR. SEE FIGURE 10, PAGE 12 AND FIGURE 13, PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN 12 ABOVE.
- ☐ LOCATE THE #6 EVAPORATOR A/C HOSE. LUBRICATE (2) #6 O-RINGS (SEE FIGURE 12, ABOVE) AND CONNECT THE 90° FEMALE FITTING TO THE DRIER HARDLINE. ROUTE THE 90° FEMALE FITTING TO THE #6 EVAPORATOR. SEE FIGURE 9, PAGE 12 AND FIGURE 13, PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 12, ABOVE.

MODIFIED A/C HOSE KIT-

HEATER HOSE & HEATER CONTROL VALVE INSTALLATION

- □ ROUTE A PIECE OF HEATER HOSE FROM THE RADIATOR EXPANSION TANK (IF EQUIPPED) OR WATER PUMP TO THE TOP HEATER FITTING OF HEATER CORE AS SHOWN IN FIGURE 9, PAGE 12 AND FIGURE 13 BELOW. SECURE USING HOSE CLAMPS. NOTE: OEM RADIATOR EXPANSION TANK OUTLET IS 3/4". (OPTION 1) USE GATES HEATER HOSE PART # 18084 3/4" x 5/8" x 60" (REFER TO PAGE 12) FOR HEATER HOSE MODIFICATION. (OPTION 2) 3/4 x 5/8 REDUCER FITTING IS REQUIRED (NOT SUPPLIED)
- □ ROUTE A PIECE OF HEATER HOSE FROM THE INTAKE TO THE BOTTOM HEATER FITTING OF HEATER CORE AS SHOWN IN FIGURE 9, PAGE 12 AND FIGURE 13, BELOW. INSTALL HEATER CONTROL VALVE IN-LINE WITH INTAKE MANIFOLD (PRESSURE SIDE) HEATER HOSE, SECURE USING HOSE CLAMPS AS SHOWN IN FIGURE 13, BELOW. NOTE PROPER FLOW DIRECTION.

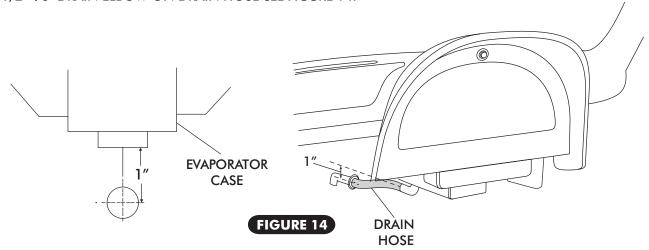






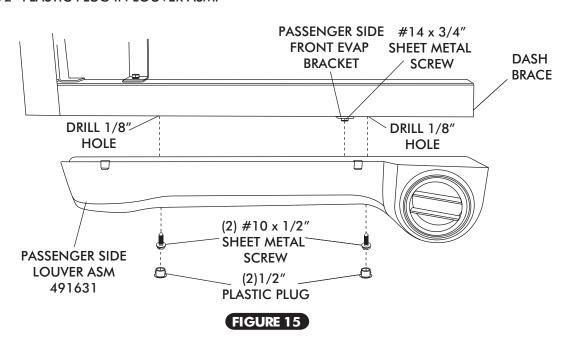
DRAIN HOSE INSTALLATION -

- ☐ LOCATE EVAPORATOR DRAIN ON BOTTOM OF EVAPORATOR CASE.
- ☐ IN-LINE WITH DRAIN, LIGHTLY MAKE A MARK ON THE FIREWALL MEASURE 1" DOWN AND DRILL A 5/8" HOLE THROUGH THE FIREWALL. SEE FIGURE 14 BELOW.
- ☐ INSTALL DRAIN HOSE TO BOTTOM OF EVAPORATOR UNIT AND ROUTE THROUGH FIREWALL. INSTALL 1/2" 90° DRAIN ELBOW ON DRAIN HOSE SEE FIGURE 14.



PASSENGER SIDE UNDER DASH LOUVER INSTALLATION -

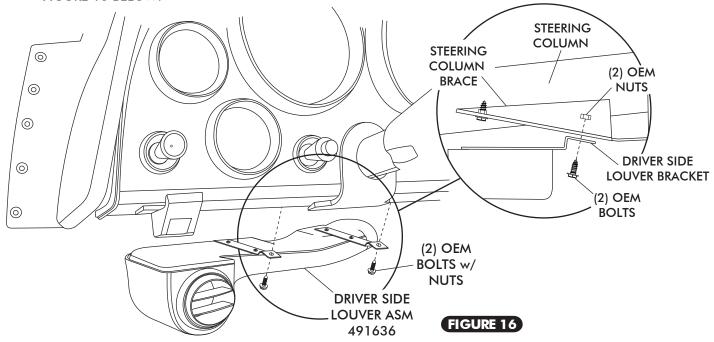
- □ ALIGN PASSENGER SIDE UNDER DASH LOUVER TO DASH BRACE USING PASSENGER SIDE FRONT EVAP BRACKET AND #14 x 3/4" SHEET METAL SCREW, DRILL (2) 1/8" HOLES IN DASH BRACE AND SECURE USING (2) #10 x 1/2" SHEET METAL SCREW AS SHOWN BELOW IN FIGURE 15.
- ☐ INSTALL 1/2" PLASTIC PLUG IN LOUVER ASM.





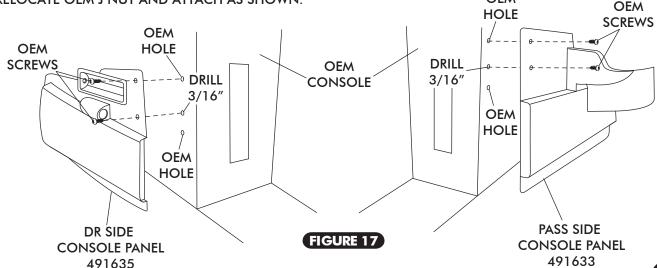
DRIVER SIDE UNDER DASH LOUVER INSTALLATION -

☐ REMOVE THE (2) BOLTS AND NUTS FROM STEERING COLUMN BRACE AND SECURE LOUVER HOUSING TO UNDER DASH STEERING COLUMN BRACE USING THE (2) OEM BOLTS AND NUTS AS SHOWN IN FIGURE 16 BELOW.



DRIVER & PASSENGER SIDE CONSOLE PANEL INSTALLATION -

- ☐ INSTALL CONTROL SWITCHES AND WIRING. (SEE CONTROL PANEL INSTRUCTIONS)
- ☐ INSTALL DUCT HOSE AS SHOWN IN FIGURE 19, PAGE 18.
- ☐ INSTALL DRIVER SIDE FRESH AIR CABLE ASSEMBLY IN NEW DRIVER SIDE CONSOLE PANEL.
- ☐ INSTALL DRIVER AND PASSENGER SIDE CONSOLE PANELS USING OEM SCREWS AS SHOWN BELOW IN FIGURE 17. **NOTE:** LOWER MOUNTING HOLE MUST BE DRILLED IN OEM CONSOLE TO MOUNT NEW CONSOLE. USE DRIVER/ PASSENGER CONSOLE PANEL AS GUIDE TO DRILL 3/16" HOLE IN CONSOLE. RELOCATE OEM J NUT AND ATTACH AS SHOWN.



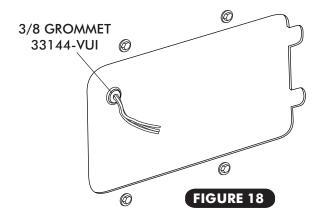


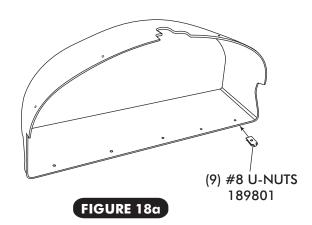
FINAL STEPS

- INSTALL DUCT HOSES AS SHOWN IN FIGURE 19, PAGE 18.
- ROUTE A/C WIRES THROUGH 3/8 GROMMET AS SHOWN IN FIGURE 18 BELOW.

(12 VOLT/ GROUND/ BINARY SWITCH/ HEATER VALVE).

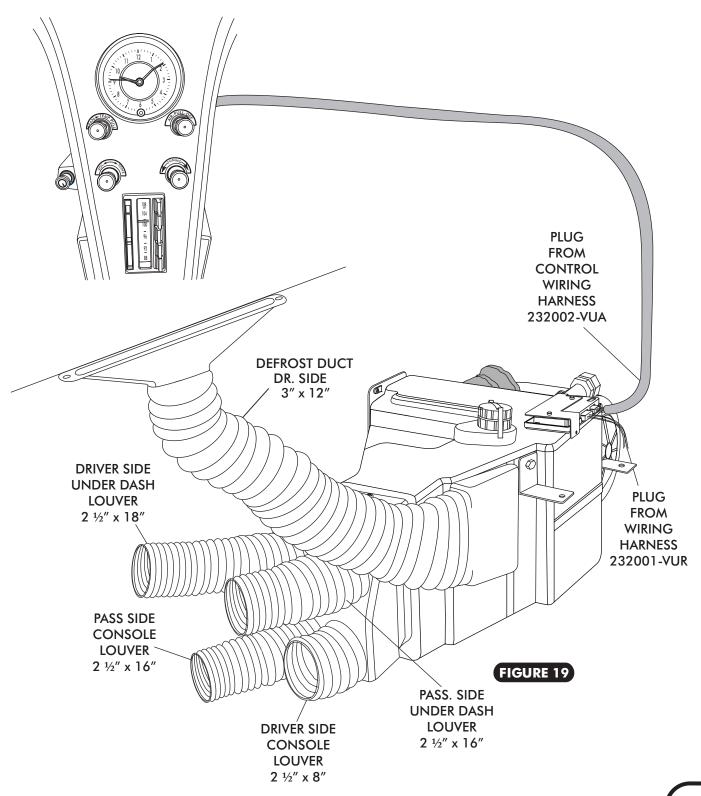
- PLUG THE WIRING HARNESS IN THE ECU MODULE ON SUB CASE AS SHOWN IN FIGURE 19, PAGE 18 (WIRE ACCORDING TO WIRING DIAGRAM ON PAGE 19 AND 20.)
- ☐ INSTALL (9) #8 U-NUTS IN GLOVE BOX AS SHOWN IN FIGURE 18a.
- ☐ INSTALL NEW GLOVE BOX USING OEM SCREWS.
- REINSTALL CENTER FLOOR CONSOLE
- ☐ REINSTALL KICK PANEL.
- ☐ REINSTALL ALL PREVIOUSLY REMOVED ITEMS.
- ☐ 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 AC MODE AND/OR FREEZING WEATHER, VOIDING YOUR WARRANTY.
- ☐ DOUBLE CHECK ALL FITTINGS, BRACKETS AND BELTS FOR TIGHTNESS.
- ☐ VINTAGE AIR RECOMMENDS THAT ALL AC SYSTEMS BE SERVICED BY A CERTIFIED AUTOMOTIVE AIR CONDITIONING TECHNICIAN.
- EVACUATE THE SYSTEM FOR A MINIMUM OF 45 MINUTES PRIOR TO CHARGING AND LEAK CHECK PRIOR TO SERVICING.
- ☐ CHARGE THE SYSTEM TO THE CAPACITIES STATED ON THE INFORMATION PAGE (PAGE 4) OF THIS INSTRUCTION MANUAL.
- ☐ SEE OPERATION OF CONTROLS PROCEDURES ON PAGE 21.





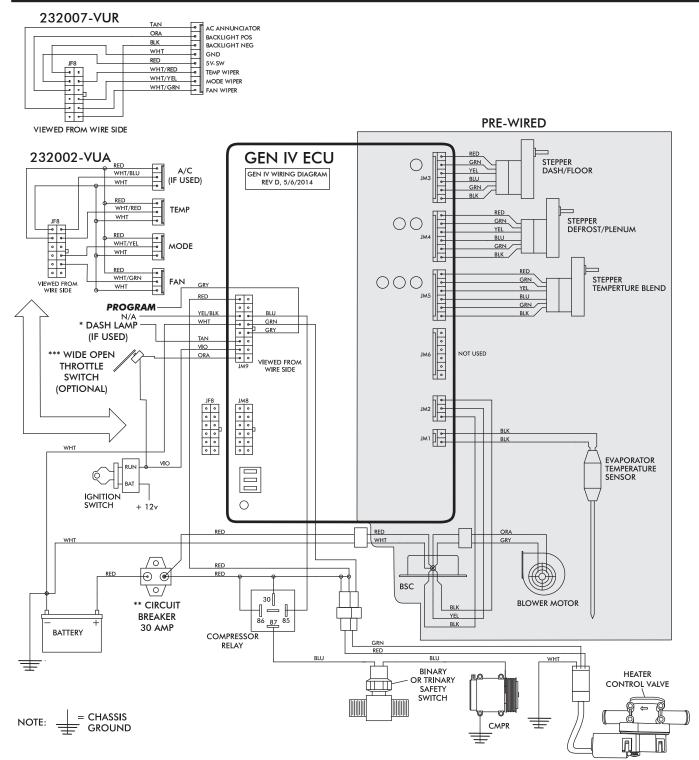


CONTROL PANEL & DUCT HOSE ROUTING-





Wiring Diagram



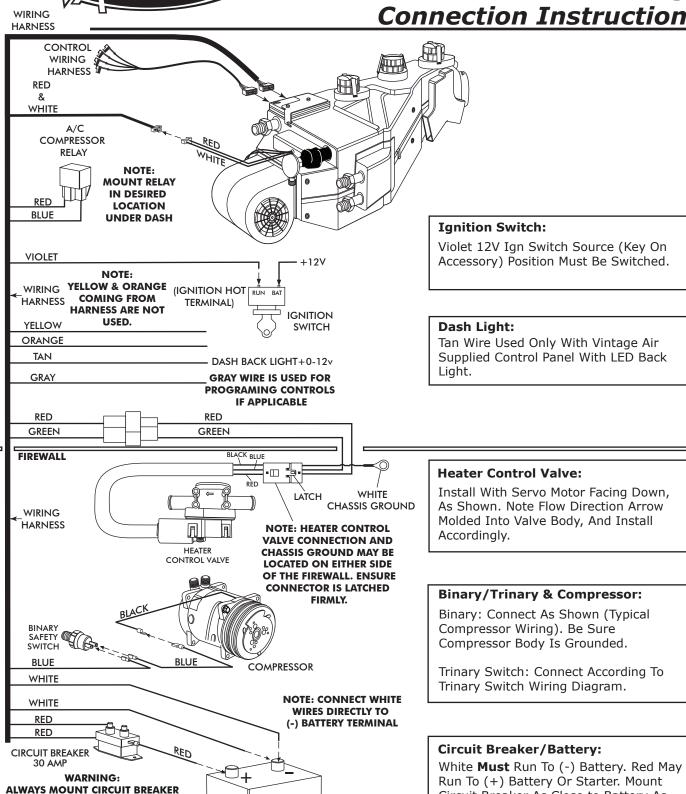
- Dash Lamp Is Used Only With Type 232007-VUR Harness.
- Warning: Always Mount Circuit Breaker As Close to the Battery As Possible. (NOTE: Wire Between Battery and Circuit Breaker Is Unprotected and Should Be Carefully Routed to Avoid a Short Circuit).
- Wide Open Throttle Switch Contacts Close Only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



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).

Gen IV Wiring **Connection Instruction**



Circuit Breaker As Close to Battery As

Possible.

BATTERY



OPERATION OF CONTROLS

THE TEMPERATURE KNOB TOGGLES BETWEEN A/C AND HEAT MODES. FOR A/C MODE ROTATE THE TEMPERATURE KNOB ALL THE WAY LEFT, FOR HEAT MODE ROTATE THE KNOB ALL THE WAY TO THE RIGHT TO DISENGAGE THE COMPRESSOR, THEN MOVE THE KNOB TO SELECT DESIRED TEMPERATURE.

NOTE: EACH TIME THE SYSTEM TOGGLES BETWEEN MODES, THE BLOWER WILL MOMENTARILY CHANGE SPEEDS.

ALL SWITCHES ARE VARIABLE BETWEEN POSITIONS, SYSTEM WILL PERFORM A BLEND BETWEEN THE FUNCTIONS.

BLOWER SPEED

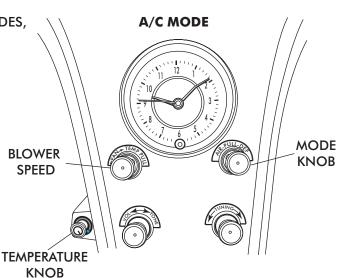
THIS KNOB CONTROLS THE BLOWER SPEED, FROM OFF TO HI

MODE KNOB

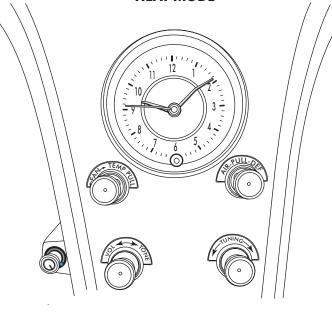
ROTATE THE KNOB TO THE LEFT TO DIRECT AIR FLOW TO THE DASH VENTS

TEMPERATURE KNOB

ROTATE THE TEMPERATURE KNOB ALL THE WAY RIGHT TO THE COLD POSITION TO ENGAGE COMPRESSOR. (ROTATE KNOB LEFT OR RIGHT TO ADJUST **DESIRED TEMPERATURE)**



HEAT MODE



BLOWER SPEED

ROTATE KNOB RIGHT TO DESIRED BLOWER

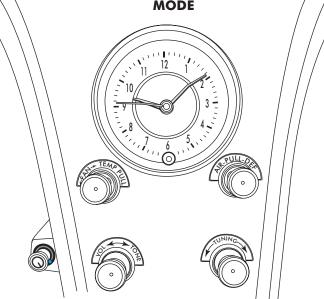
MODE KNOB

ROTATE THE KNOB TO THE CENTER TO **DIRECT AIR FLOW TO** THE FLOOR.

TEMPERATURE KNOB

ROTATE THE TEMPERATURE KNOB ALL THE WAY LEFT SPEED FROM OFF TO HI. TO THE HOT POSITION. (ROTATE KNOB LEFT OR RIGHT TO ADJUST **DESIRED TEMPERATURE)**

DEFROST/ DE-FOG MODE



BLOWER SPEED

ROTATE KNOB RIGHT TO DESIRED BLOWER SPEED FROM OFF TO HI.

MODE KNOB

ROTATE THE KNOB TO THE RIGHT TO DIRECT AIR FLOW TO THE **DEFROST VENTS.**

TEMPERATURE KNOB

ROTATE KNOB LEFT OR RIGHT TO ADJUST DESIRED TEMPERATURE. (COMPRESSOR IS **AUTOMATICALLY** ENGAGED)

No other part replacements Troubleshooting Guide Loss of ground on this wire Red wire at A/C pot should wire will have continuity to engine running. Serious should be between 0V and function, check voltage at 5V, and will vary with pot See blower switch check procedure. Danger: Never bypass white/blue wire. Voltage have approximately 5V with ignition on. White To check for proper pot chassis ground. White/ Disconnected or faulty Blue wire should vary renders control head thermistor will cause should be necessary. safety switch with injury can result. compressor to be disabled. lever position. inoperable. Be sure the small, 20 GA white ground wire is connected to the battery ground post. If it is, replace the ECU. "ground" side of the blower is shorted to chassis ground, the blower will run on HI. Verify that all pins are inserted into plug. Ensure that no shorted to vehicle ground. The BSC operates the blower Check continuity to ground on white control head wire. Check for 5V on red control head wire. by ground side pulse width modulation switching. The positive wire to the blower will always be hot. If the Verify continuity to chassis ground with white control head wire at various points. Replace BSC (This will require removal of evaporator from vehicle). Check to ensure that no BSC wiring is damaged or → Charge system or bypass pressure switch. → Check 2-pin connector at ECU housing. → Repair or replace pot/control wiring. pins are bent or damaged in ECU Actions wiring (Not applicable to 3-pot connector from ECU. If blower connector from ECU. If blower improperly wired or damaged. improperly wired or damaged. System must be charged for compressor to engage. potentiometer or associated potentiometer or associated switch or potentiometer and stays running, BSC is either wire (white) in control head Check for damaged ground Check for damaged pins or Unplug 3-wire BSC control Check for damaged blower Unplug 3-wire BSC control Check for disconnected or wires in control head plug. shuts off, ECU is either Check for faulty A/C Check for faulty A/C Checks associated wiring. faulty thermistor. controls). harness. wiring All other functions work. No other functions work. System is not charged. System is charged. Condition ignition is on or off. (All other functions (All other functions high speed when high speed when Blower stays on Blower stays on Compressor will Compressor will Symptom ignition is on. not turn on not turn off work). work) 1b. 901141 REV B 7/8/14, INST 67 CORVETTE EVAP wo AC w/ FRESH AIR CABLE PG 22 OF 24

Notes

lever is moved up or down.

→ Replace relay.

Check for faulty A/C relay.

between 0V and 5V when



Troubleshooting Guide (Cont.)

Symptom	Condition	Checks	Actions	Notes
4.	-		Install capacitors on ignition coil and alternator. Ensure	Ignition noise (radiated or
	Works when engine is not running; shuts off when engine is started	Noise interference from either ignition or alternator.	yood ground at all points. Relocate coil and associated ▶ wiring away from ECU and ECU wiring. Check for burned or loose plug wires.	system to shut down due to high voltage spikes. If this
	(Typically early Gen IV, but possible on all			is suspected, check with a quality oscilloscope. Spikes greater than 16V will chut
System will not turn on, or runs intermittently.	varversions).	Verify connections on power lead, ignition lead, and both	Check for positive power at heater valve green wire and blower red wire. Check for ground on control head white wire.	down the ECU. Install a radio capacitor at the positive post of the ignition
	Will not turn on under any conditions.		Verify proper meter function by checking the condition of a known good battery.	coil (See radio capacitor installation bulletin). A faulty alternator or worn out battery can also result in this condition.
5.	No mode change at all.	Check for damaged mode ➤ switch or potentiometer and		Typically caused by
Loss of mode door function.		associated wiring.		installed in a bind in the
	Partial function of mode	binding mode doors.		mounting locations line up
		Check for damaged stepper motor or wiring.		into position.
9	Battery voltage is at least	Check for at least 12V at circuit breaker.	Ensure all system grounds and power connections are clean and tight.	System shuts off blower at 10V. Poor connections or
Blower turns on and off rapidly.	ery voltage is less 12V.	Check for faulty battery or alternator.		weak battery can cause → shutdown at up to 11V.
7.				
Erratic functions of		Check for damaged switch or		
blower, mode, temp, etc.		pot and associated wiring.	→ Kepair or replace.	
8.				
When ignition is		This is an indicator that the		
turned on, blower		system has been reset. Be		
comes on, then		the battery post, and not on a	Our rough with directly to heaten.	
shuts off. This		switched source. Also, if the	A rull led power wire directly to battery.	
occurs with the		system is pulled below 7V for even a culit second the		
the OFF position.		system will reset.		



EVAPORATOR KIT PACKING LIST

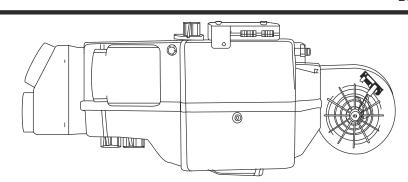
EVAPORATOR KIT 561165

No.	QTY.	PART No.	DESCRIPTION	
1. 2.	1	744009 781065	63-67 VETTE EVAP SUB CASE ACC KIT 67 VETTE wo AC w/ FAC	

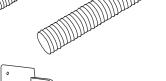
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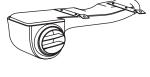
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63-67 VETTE EVAP SUB CASE 744009





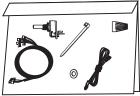


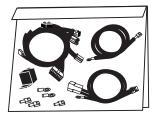


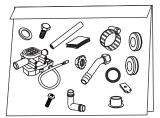


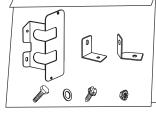


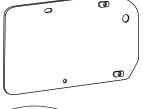


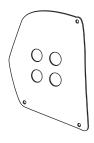




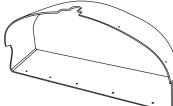












ACCESSORY KIT
781065 NOTE: IMAGES MAY NOT DEPICT ACTUAL PARTS AND QUANTITIES.
REFER TO PACKING LIST FOR ACTUAL PARTS AND QUANTITIES.