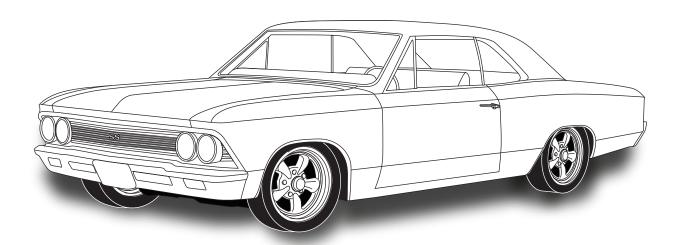


an ISO 9001: 2008 Registered Company

# 1966-67 CHEVELLE

WITH FACTORY AIR 564466



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



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### **EVAPORATOR KIT PACKING LIST**

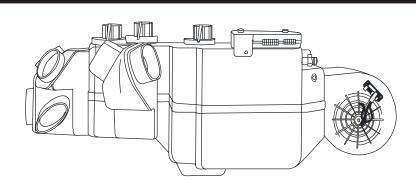
### **EVAPORATOR KIT** 564466

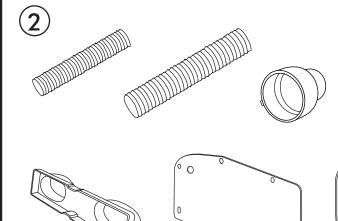
1	No.	QTY.	PART No.	DESCRIPTION
	1.	1	762169	GEN IV 4 VENT w/ 2" & 2 ½" EVAP. SUB CASE
	2.	1	784175	1966-67 CHEVELLE w AC ACC. KIT

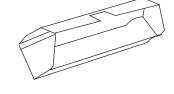
\*\* BEFORE BEGINNING INSTALLATION OPEN ALL PACKAGES AND CHECK CONTENTS OF SHIPMENT. PLEASE REPORT ANY SHORTAGES DIRECTLY TO VINTAGE AIR WITHIN 15 DAYS. AFTER 15 DAYS. VINTAGE AIR WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED ITEMS.

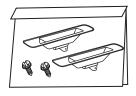


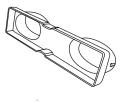
**GEN IV 4 VENT** w/ 2" & 2 1/2" EVAP **SUB CASE** 762169

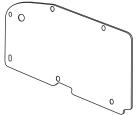


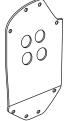


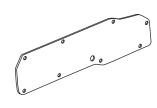




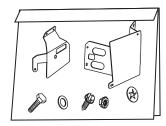


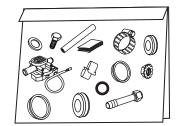


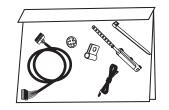


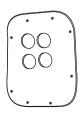












**ACCESSORY KIT** 784175

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  $85^{\circ}$  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.



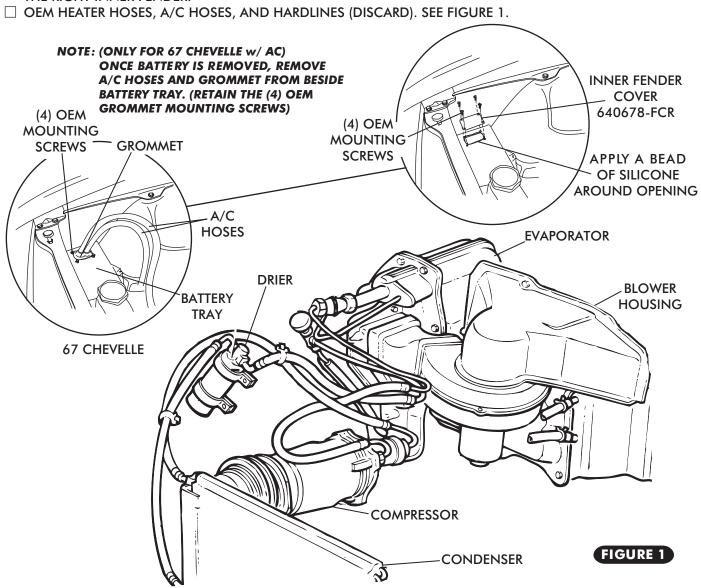
### 1966-67 CHEVELLE WITH A/C

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**

- ☐ BATTERY, BATTERY TRAY (RETAIN).
- ☐ DRAIN RADIATOR, REMOVE RADIATOR (RETAIN).
- ☐ EVACUATE THE A/C SYSTEM IF NECESSARY.
- ☐ OEM CONDENSER AND DRIER (DISCARD). SEE FIGURE 1.
- ☐ OEM A/C LINES FROM COMPRESSOR TO EVAPORATOR (DISCARD). SEE FIGURE 1.
- ☐ OEM COMPRESSOR AND BRACKET (DISCARD). SEE FIGURE 1.
- ☐ EVAPORATOR BLOWER ASSEMBLY (DISCARD).
  - TO REMOVE THE EVAPORATOR AND BLOWER ASSEMBLY (UNDER HOOD) AND THE AIR DISTRIBUTION SYSTEM (UNDER DASH), THE FACTORY MANUAL RECOMMENDS REMOVING THE RIGHT INNER FENDER.



### **1966-67 CHEVELLE** WITH A/C

# **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 BRACKET. PASSENGER COMPARTMENT -NOTE: REMOVAL OF DASHBOARD REQUIRED TO INSTALL THE EVAPORATOR. VINTAGE AIR RECOMMENDS THAT YOU UTILIZE THE FACTORY SERVICE MANUAL WHEN YOU DISASSEMBLE AND REASSEMBLE THE DASHBOARD. **REMOVE THE FOLLOWING:** ☐ REMOVE GLOVE BOX DOOR (RETAIN) AND GLOVE BOX (DISCARD). ☐ DISCONNECT ALL WIRE AND CABLES FROM CONTROL PANEL AND RADIO. ☐ ALL HOSE AND DUCTING FROM OEM LOUVERS. SEE FIGURE 2 BELOW ☐ OEM DEFROST DUCT ASSEMBLY. SEE FIGURE 3 BELOW. ☐ OEM A/C AND HEATER ASSEMBLY. SEE FIGURE 3 BELOW. □ PASSENGER SIDE KICK PANEL/FRESH AIR DOOR ASM AS SHOWN IN FIGURE 2a. CONTROL **GLOVE BOX** PANEL A/C HEATER ASSEMBLY FIGURE 2 & RELATED DUCTING **DEFROST DUCT** FRESH AIR **ASM** DOOR ASM FIGURE 2a

7

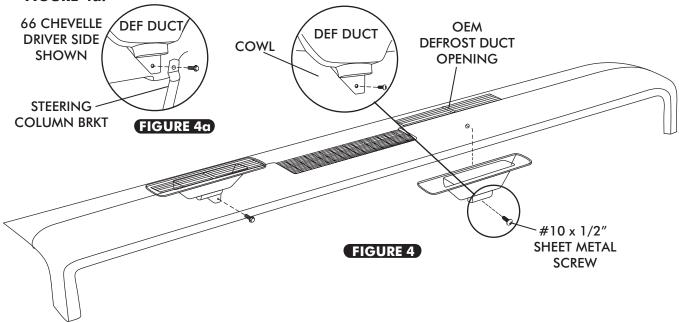
FIGURE 3

OEM A/C HEATER ASM



### **DEFROST DUCT INSTALLATION-**

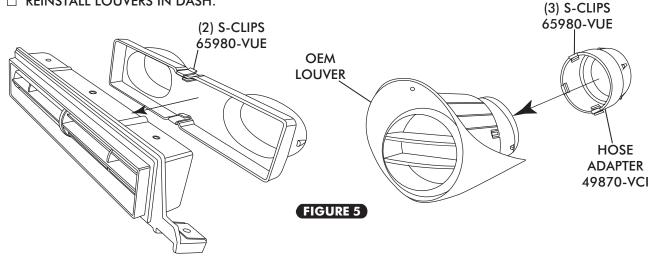
☐ INSTALL DEFROST DUCTS UNDER DASH AND ALIGN WITH OEM OPENING. INSTALL THE DRIVER/ PASSENGER SIDE DEFROST DUCT TO COWL USING #10 x 1/2" SHEET METAL SCREWS. SEE FIGURE 4 BELOW. NOTE: 66 CHEVELLE DRIVER SIDE DEFROST DUCT INSTALLS BEHIND STEERING COLUMN BRACKET AND SECURES USING STEERING COLUMN OEM BOLT AS SHOWN IN FIGURE 4a.



### **HOSE ADAPTER INSTALLATION =**

- ☐ INSTALL S-CLIPS ON HOSE ADAPTERS AS SHOWN IN FIGURE 5 BELOW.
- ☐ INSTALL CENTER LOUVER HOSE ADAPTER OUTSIDE OEM CENTER LOUVER ASSEMBLY AS SHOWN IN FIGURE 5 BELOW.
- ☐ INSTALL DRIVER & PASSENGER SIDE HOSE ADAPTERS OUTSIDE OEM LOUVERS. SEE FIGURE 5 BELOW

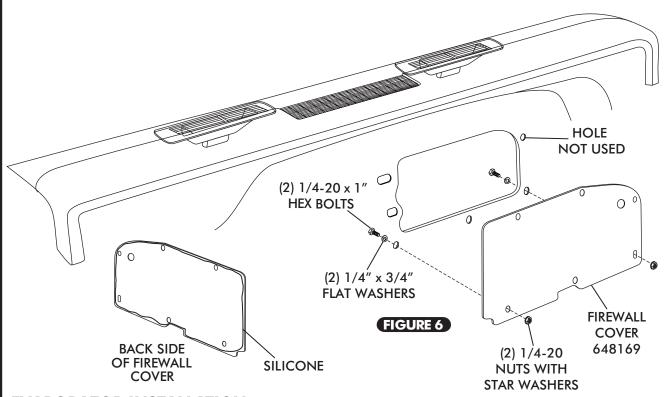






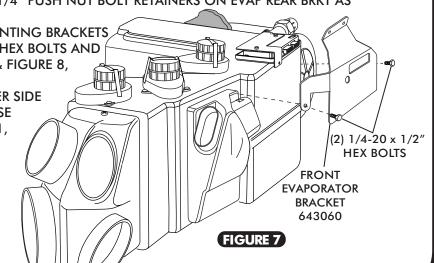
### FIREWALL COVER INSTALLATION -

- ☐ APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF THE FIREWALL COVER AS SHOWN IN FIGURE 6, BELOW.
- ☐ FROM INSIDE THE CAR, INSTALL FIREWALL COVER ON FIREWALL USING (2) 1/4-20 x 1" HEX BOLTS, FLAT WASHERS AND 1/4-20 NUTS WITH STAR WASHERS, SEE FIGURE 6, BELOW.



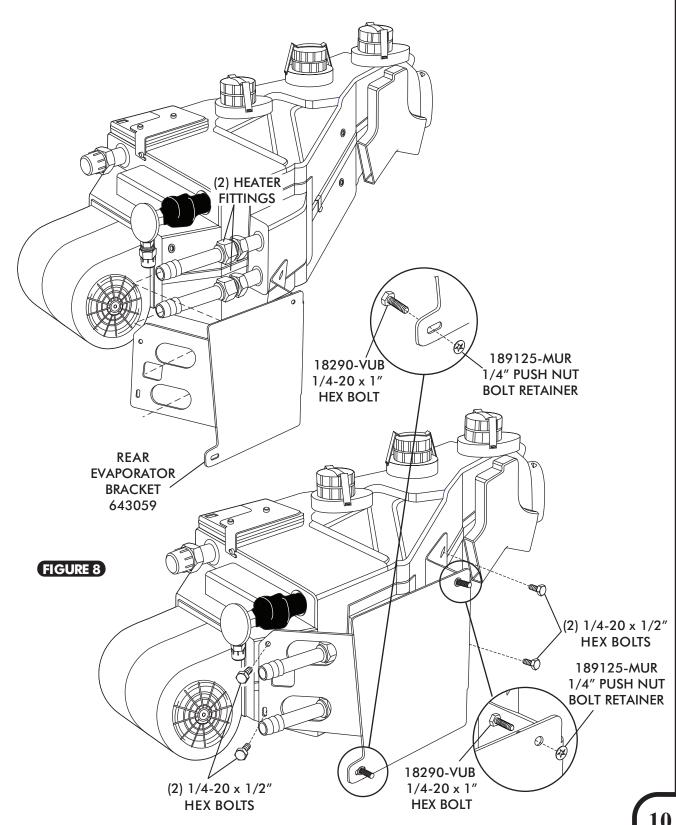
### **EVAPORATOR INSTALLATION –**

- ☐ ON A WORK BENCH INSTALL (2) HEATER FITTINGS WITH PROPERLY LUBRICATED O-RINGS. (SEE FIGURE 14, PAGE 13, AND FIGURE 8 PAGE 10.)
- ☐ INSTALL (2) 1/4-20 x 1" HEX BOLT AND (2) 1/4" PUSH NUT BOLT RETAINERS ON EVAP REAR BRKT AS SHOWN IN FIGURE 8, PAGE 10.
- □ INSTALL EVAPORATOR FRONT & REAR MOUNTING BRACKETS ON EVAPORATOR USING (6) 1/4-20 x 1/2" HEX BOLTS AND TIGHTEN AS SHOWN IN FIGURE 7 BELOW & FIGURE 8, PAGE 10.
- ☐ LAY EVAPORATOR SUB CASE ON PASSENGER SIDE FLOOR BOARD. INSTALL A/C & HEATER HOSE ON EVAPORATOR AS SHOWN IN FIGURE 11, PAGE 12 AND HOSE INSTALLATION ON PAGE 14.
- □ NOTE: WRAP THE #10 FITTING CONNECTIONS WITH PRESS TAPE. SEE FIGURE 11, PAGE 12.



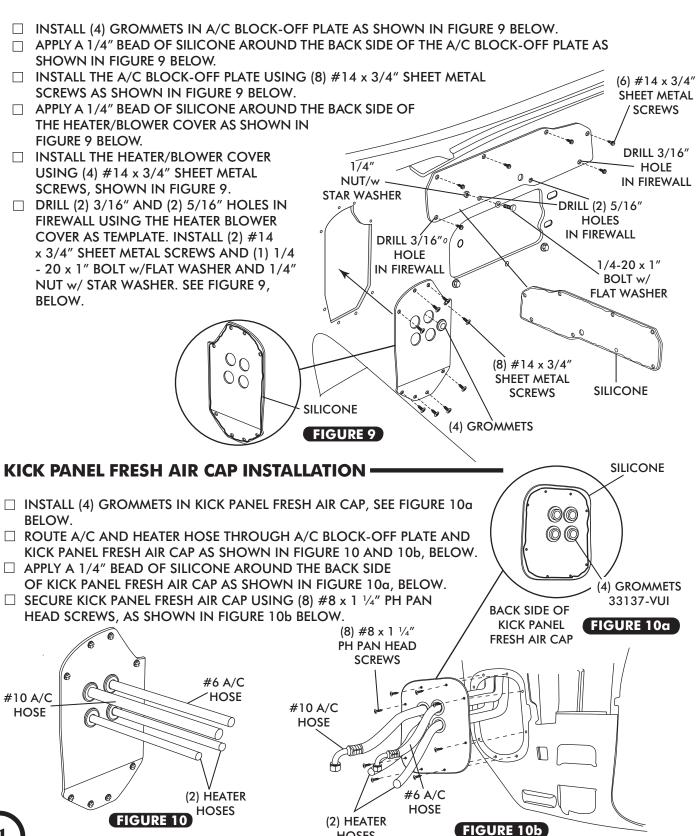


### **BRACKET INSTALLATION**





### FRESH AIR COVER INSTALLATION

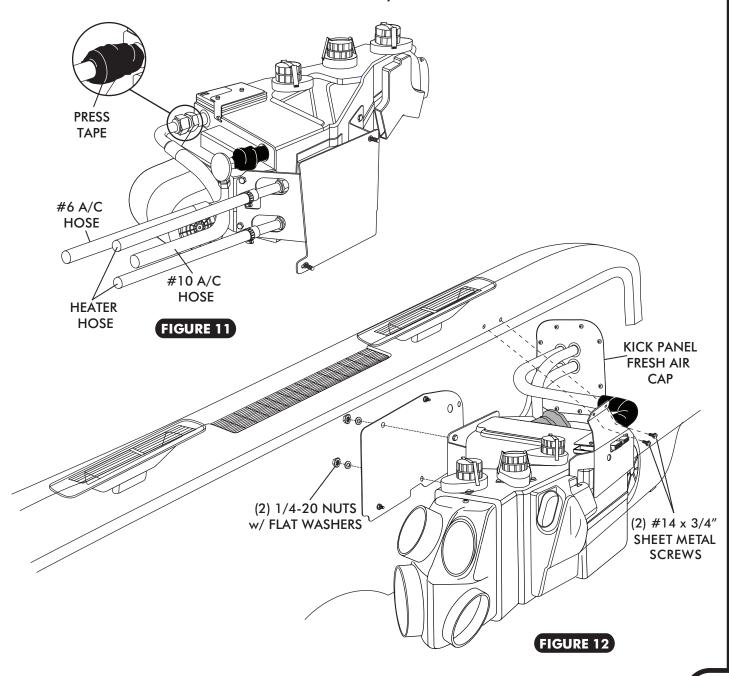


**HOSES** 



### **EVAPORATOR INSTALLATION CONT. –**

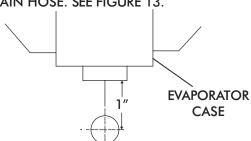
- ☐ LIFT EVAPORATOR UNIT UP UNDER THE DASHBOARD. SECURE LOOSELY TO THE FIREWALL FROM THE ENGINE COMPARTMENT SIDE USING (2) 1/4-20 NUTS AND FLAT WASHERS. SEE FIGURE 12.
- ☐ SECURE THE FRONT EVAPORATOR MOUNTING BRACKET TO COWL USING (2) #14 x 3/4" HEX SHEET METAL SCREWS. SEE FIGURE 12 BELOW.
- □ VERIFY THAT EVAPORATOR UNIT IS LEVEL AND SQUARE TO THE DASH, THEN TIGHTEN ALL MOUNTING BOLTS. NOTE: TIGHTEN THE BOLT ON FIREWALL FIRST, THEN THE FRONT MOUNTING BRACKET.

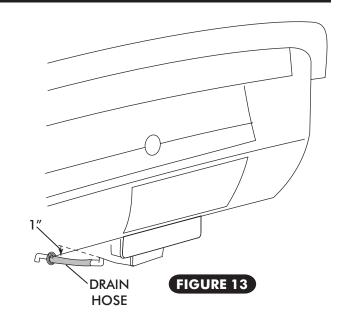




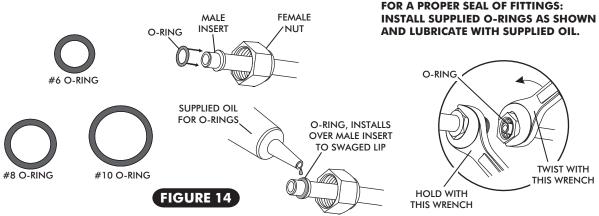
### **DRAIN HOSE INSTALLATION**

- ☐ 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 13 BELOW.
- ☐ INSTALL DRAIN HOSE TO BOTTOM OF EVAPORATOR UNIT AND ROUTE THROUGH FIREWALL. INSTALL 1/2" 90° DRAIN ELBOW ON DRAIN HOSE. SEE FIGURE 13.





### **LUBRICATING O-RINGS**



# A/C HOSE INSTALLATION STANDARD HOSE KIT

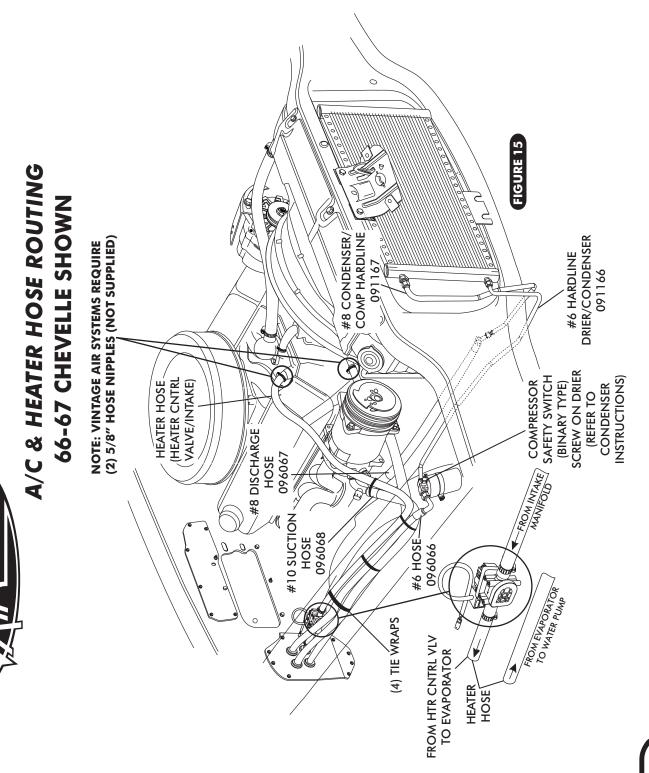
- □ LOCATE THE #8 COMPRESSOR A/C HOSE. LUBRICATE (2) #8 O-RINGS (SEE FIGURE 14, ABOVE) AND CONNECT THE 90° FEMALE FITTING TO THE #8 DISCHARGE PORT ON THE COMPRESSOR. ROUTE THE 45° FEMALE FITTING w/ 134a SERVICE PORT TO THE #8 CONDENSER HARDLINE COMING THROUGH CORE SUPPORT. SEE FIGURE 15 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 14 ABOVE.
- □ LOCATE THE #10 COMPRESSOR A/C HOSE. LUBRICATE (2) #10 O-RINGS (SEE FIGURE 14, ABOVE) AND CONNECT THE #10 45° 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 11 PAGE 12 AND FIGURE 15 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN 14 ABOVE.
- □ LOCATE THE #6 EVAPORATOR A/C HOSE. LUBRICATE (2) #6 O-RINGS (SEE FIGURE 14, ABOVE) AND CONNECT THE 90° FEMALE FITTING TO THE DRIER. ROUTE THE 90° FEMALE FITTING TO THE #6 EVAPORATOR. SEE FIGURE 11, PAGE 12 AND FIGURE 15 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 14, ABOVE.

### **MODIFIED A/C HOSE KIT-**

REFER TO SEPARATE INSTRUCTIONS INCLUDED WITH MODIFIED HOSE KIT.

### **HEATER HOSE & HEATER CONTROL VALVE INSTALLATION**

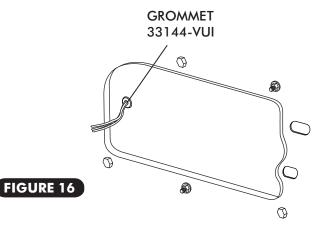
- ☐ ROUTE A PIECE OF HEATER HOSE FROM THE WATER PUMP TO THE TOP HEATER FITTING OF HEATER CORE AS SHOWN IN FIGURE 11, PAGE 12, AND FIGURE 15, BELOW. SECURE USING HOSE CLAMPS.
- □ ROUTE A PIECE OF HEATER HOSE FROM THE INTAKE TO THE BOTTOM HEATER FITTING OF HEATER CORE AS SHOWN IN FIGURE 11, PAGE 12, AND FIGURE 15, BELOW. NOTE: INSTALL HEATER CONTROL VALVE IN LINE WITH INTAKE MANIFOLD (PRESSURE SIDE) HEATER HOSE. SECURE USING HOSE CLAMPS AS SHOWN IN FIGURE 15, BELOW. NOTE PROPER FLOW DIRECTION.

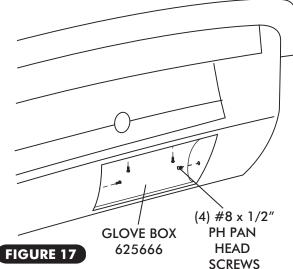




### **FINAL STEPS**

- ☐ INSTALL DUCT HOSES AS SHOWN IN FIGURE 19, PAGE 16.
- ☐ ROUTE A/C WIRES THROUGH 3/8" GROMMET AS SHOWN IN FIGURE 16 (12 VOLT/ GROUND/ BINARY SWITCH/ HEATER VALVE).
- ☐ INSTALL CONTROL PANEL ASM.
- □ PLUG THE WIRING HARNESS IN THE ECU MODULE ON SUB CASE AS SHOWN IN FIGURE 19, PAGE 16 (WIRE ACCORDING TO WIRING DIAGRAM ON PAGE 17 AND 18).
- ☐ INSTALL NEW GLOVE BOX USING (4) #8 x 1/2" PH PAN HEAD SCREWS, SEE FIGURE 17.
- MODIFY PASSENGER SIDE KICK PANEL AS SHOWN IN FIGURE 18 BELOW.
- REINSTALL ALL PREVIOUSLY REMOVED ITEMS (BATTERY TRAY, BATTERY & INNER FENDER).
- ☐ 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.
- ☐ DOUBLE CHECK ALL FITTINGS, BRACKETS AND BELTS FOR TIGHTNESS.
- ☐ VINTAGE AIR RECOMMENDS THAT ALL A/C 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, PAGE 19.





CUT & REMOVE

2 3/4"

PASSENGER

SIDE

KICK PANEL



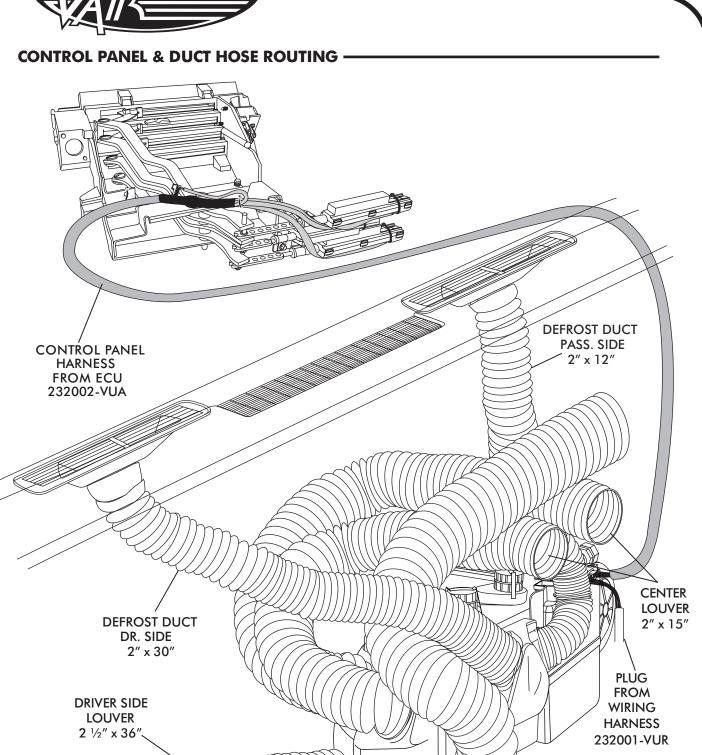


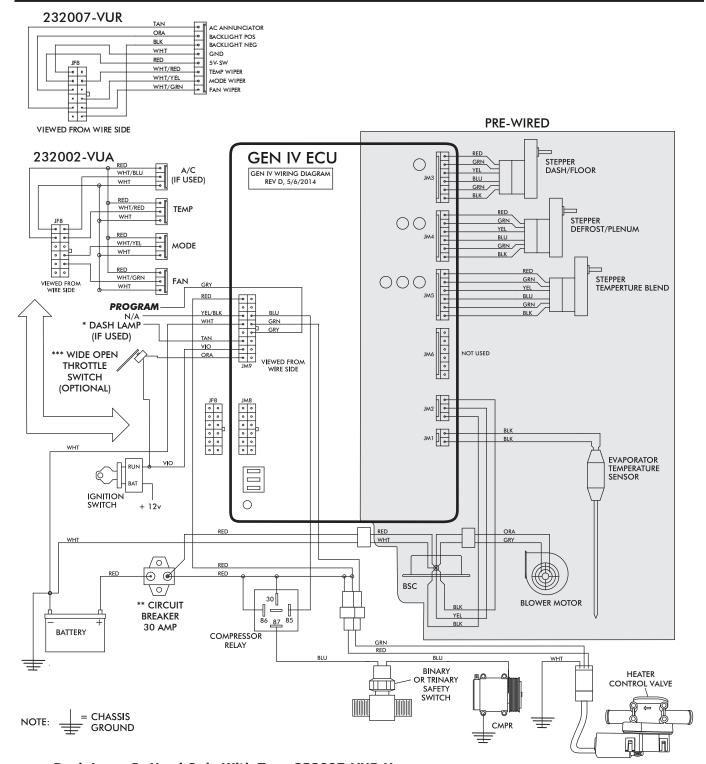
FIGURE 19

PASS. SIDE LOUVER

2 1/2" x 48"



## Wiring Diagram

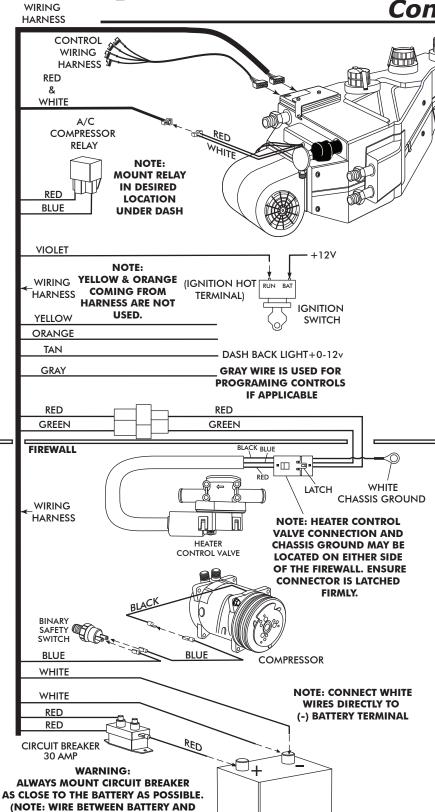


- Dash Lamp Is Used Only With Type 232007-VUR Harness.
- Warning: Always Mount Circuit Breaker As Close to the Battery As Possible. (NOTE: Wire Between Battery and Circuit Breaker Is Unprotected and Should Be Carefully Routed to Avoid a Short Circuit).
- Wide Open Throttle Switch Contacts Close Only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



### 1966-67 CHEVELLE WITH A/C

# Gen IV Wiring Connection Instruction



CIRCUIT BREAKER IS UNPROTECTED AND SHOULD BE CAREFULLY ROUTED TO AVOID A SHORT CIRCUIT).

### **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.

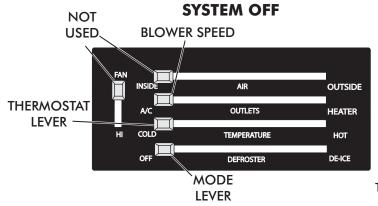
**BATTERY** 



### **OPERATION OF CONTROLS**

THE COLD LEVER TOGGLES BETWEEN COLD AND HOT MODES. FOR A/C MODE SLIDE THE COLD LEVER ALL THE WAY TO THE LEFT TO ENGAGE THE COMPRESSOR. SLIDE THE COLD LEVER TO THE RIGHT TO SELECT DESIRED TEMPERATURE. FOR HEAT MODE SLIDE THE COLD LEVER ALL THE WAY TO THE RIGHT TO DISENGAGE THE COMPRESSOR. SLIDE THE COLD LEVER TO THE LEFT TO SELECT DESIRED TEMPERATURE.

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



### **BLOWER SPEED**

THIS LEVER CONTROLS THE BLOWER SPEED, FROM OFF TO HI

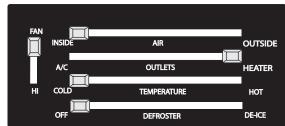
### **MODE LEVER**

SLIDE THE LEVER TO THE "DASH" POSITION

### THERMOSTAT LEVER

IN A/C MODE SLIDE
THE THERMOSTAT LEVER
ALL THEWAY LEFT TO THE
COLD POSITION, FOR MAXIMUM
COOLING (SLIDE LEVER LEFT
OR RIGHT TO ADJUST
DESIRED TEMPERATURE)

### A/C MODE



### **BLOWER SPEED**

SLIDE LEVER RIGHT TO DESIRED BLOWER SPEED, FROM OFF TO HI

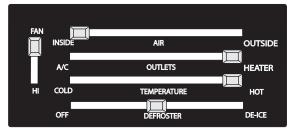
### THERMOSTAT LEVER

IN A/C MODE SLIDE
, THE THERMOSTAT LEVER
ALL THE WAY LEFT TO THE
COLD POSITION TO
ENGAGE COMPRESSOR,
FOR MAXIMUM COOLING
(SLIDE LEVER LEFT OR RIGHT TO
ADJUST DESIRED TEMPERATURE)

### **MODE LEVER**

SLIDE THE LEVER TO THE LEFT FOR "DASH" POSITION

### **HEAT MODE**



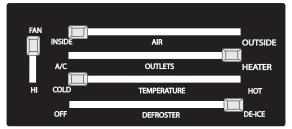
### **BLOWER SPEED**

SLIDE LEVER RIGHT TO DESIRED BLOWER SPEED, FROM OFF TO HI

### THERMOSTAT LEVER

IN HEAT MODE SLIDE THE
THERMOSTAT LEVER ALL THE
WAY RIGHT TO THE HOT POSITION,
FOR MAXIMUM HEATING
(SLIDE LEVER LEFT OR RIGHT TO
ADJUST DESIRED TEMPERATURE)

### **DEFROST/DE-FOG MODE**



### BLOWER SPEED

SLIDE LEVER RIGHT TO DESIRED BLOWER SPEED, FROM OFF TO HI

### **THERMOSTAT LEVER**

IN DEF MODE SLIDE
D, THE THERMOSTAT LEVER
ALL THE WAY LEFT TO THE
COLD POSITION TO
ENGAGE COMPRESSOR,
FOR MAXIMUM COOLING
(SLIDE LEVER LEFT OR RIGHT TO
ADJUST DESIRED TEMPERATURE)

### **MODE LEVER**

SLIDE THE LEVER TO THE RIGHT FOR "DEF" POSITION

### **MODE LEVER**

SLIDE THE LEVER TO THE CENTER FOR "FLR" POSITION



# Troubleshooting Guide

Symptom	Condition	Checks	Actions	Notes
fa. Blower stays on high speed when ignition is on.	No other functions work.	Check for damaged pins or wires in control head plug. Check for damaged ground harness. Check for damaged blower switch or potentiometer and associated wiring.	Verify that all pins are inserted into plug. Ensure that no plus are bent or damaged in ECU.  Verify continuity to chassis ground with white control head wire at various points.	Loss of ground on this wire renders control head inoperable.  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.  Unplug 3-wire BSC control connector from ECU. If blower stays running, BSC 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.  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 (ADI).  Work).	System is not charged.	System must be charged for compressor to engage.  Check for faulty A/C potentiometer or associated wiring (Not applicable to 3-potentions).	ch.	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.
		faulty thermistor.	► Check 2-pin connector at ECU housing.	➤ Disconnected or faulty thermistor will cause compressor to be disabled.
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.	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
20		Check for faulty A/C relay.	➤ Replace relay.	between UV and 5V when lever is moved up or down.



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# Troubleshooting Guide (Cont.)

Symptom	Condition	Checks	Actions	Notes
System will not turn on, or runs intermittently.	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.  Verify connections on power lead, ignition lead, and both white ground wires.	Install capacitors on ignition coil and alternator. Ensure good ground at all points. Relocate coil and associated wiring away from ECU and ECU wiring. Check for burned or loose plug wires.  Check for positive power at heater valve green wire and blower red wire. Check for ground on control head white wire.	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 coil (See radio capacitor installation bulletin). A faulty afternator or worn
C 02/19/14 1999-92 EH function.	ode change at all.	greater than 10 volts and less than 16.  Check for damaged mode associated wiring.  Check for obstructed or binding mode doors.	a known good battery.	out battery can also result in this condition.  Typically caused by evaporator housing installed in a bind in the yehicle. Be sure all mounting locations line up
	doors.	Check for damaged stepper motor or wiring.		and don't have to be forced into position.
Blower turns on and off rapidly.	Battery voltage is at least 12V.  Battery voltage is less than 12V.	Check for at least 12V at circuit breaker.  Check for faulty battery or alternator.	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.
Erratic functions of blower, mode, temp, etc.		Check for damaged switch or pot and associated wiring.	→ Repair or replace.	
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.	



### 1966-67 CHEVELLE WITH AC

# EVAPORATOR KIT 564466

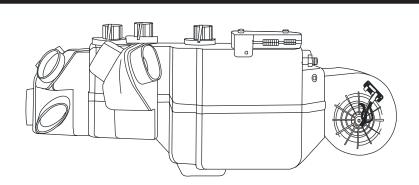
### **EVAPORATOR KIT PACKING LIST**

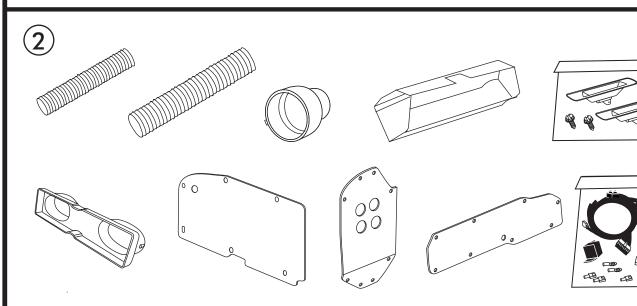
No.	QTY.	PART No.	DESCRIPTION
1.	1	762169	GEN IV 4 VENT w/ 2" & 2 ½" EVAP. SUB CASE
2.	1	784175	1966-67 CHEVELLE w AC ACC. KIT

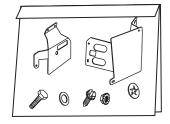
\*\* BEFORE BEGINNING INSTALLATION OPEN ALL PACKAGES AND CHECK CONTENTS OF SHIPMENT. PLEASE REPORT ANY SHORTAGES DIRECTLY TO VINTAGE AIR WITHIN 15 DAYS. AFTER 15 DAYS, VINTAGE AIR WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED ITEMS.



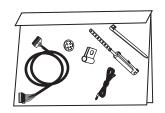
GEN IV 4 VENT w/ 2" & 2 ½" EVAP SUB CASE 762169

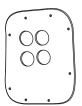












ACCESSORY KIT 784175

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