1966-67 CHEVELLE
without FACTORY AIR
561066
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** 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. **

### EVAPORATOR KIT PACKING LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>QTY.</th>
<th>PART No.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1</td>
<td>762169</td>
<td>GEN IV 4-VENT with 2&quot; &amp; 2 ½&quot; EVAPORATOR SUB CASE</td>
</tr>
<tr>
<td>2.</td>
<td>1</td>
<td>784161</td>
<td>1966-67 CHEVELLE without A/C ACCESSORY KIT</td>
</tr>
</tbody>
</table>

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:

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.
ENGINE COMPARTMENT

REMOVE THE FOLLOWING:

☐ BATTERY, BATTERY TRAY (RETAIN).
☐ DRAIN RADIATOR, REMOVE RADIATOR (RETAIN).
☐ TO REMOVE THE BLOWER ASSEMBLY (UNDER HOOD) AND THE AIR DISTRIBUTION SYSTEM (UNDER DASH), THE FACTORY MANUAL INDICATES DOING THE FOLLOWING: REMOVE RIGHT INNER FENDER.
☐ OEM HEATER HOSES (DISCARD). SEE FIGURE 1.
☐ OEM HEATER WIRING (DISCARD). SEE FIGURE 1.

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

- REMOVE GLOVE BOX DOOR (RETAIN) AND GLOVE BOX (DISCARD).
- REMOVE THE CABLES/WIRING FROM THE OEM HEATER ASSEMBLY (DISCARD).
- REMOVE OEM DEFROST DUCT ASSEMBLY (DISCARD).
- REMOVE CONTROL PANEL (RETAIN).
- REMOVE RADIO (RETAIN).
- PASSENGER SIDE KICK PANEL FRESH AIR CAP DOOR ASSEMBLY AS SHOWN IN FIGURE 3, PAGE 8, AND FIGURE 5, PAGE 9.

**FIGURE 2**
66 CHEVELLE KICK PANEL MODIFICATION

- REMOVE KICK PANEL.
- REMOVE KICK PANEL FRESH AIR DOOR ASSEMBLY BY REMOVING (5) OEM SCREWS.
- DISCONNECT PULL CABLE ASSEMBLY FROM UNDER THE DASH (DISCARD). SEE FIGURE 3, BELOW.

- CUT OUT KICK PANEL MODIFICATION TEMPLATE PROVIDED ON PAGE 27.
- ALIGN TEMPLATE ON BACK OF KICK PANEL AS SHOWN IN FIGURE 4, BELOW.
- CUT OUT GRILLE AS SHOWN IN FIGURE 4, BELOW.
- DRILL 3/16” HOLES IN KICK PANEL.

FIGURE 3

FIGURE 4
67 CHEVELLE KICK PANEL MODIFICATION

- REMOVE KICK PANEL GRILLE (DISCARD). REMOVE KICK PANEL BY REMOVING (5) OEM SCREWS FROM THE FRESH AIR DOOR ASSEMBLY. DISCONNECT PULL CABLE ASSEMBLY FROM THE KICK PANEL (DISCARD). SEE FIGURE 5, BELOW.

- INSTALL 1/2" PLASTIC PLUG TO FILL THE HOLES LEFT FROM THE REMOVAL OF THE PULL CABLE ASSEMBLY. SEE FIGURE 6, BELOW.
- CUT OUT TEMPLATE PROVIDED ON PAGE 28.
- PLACE TEMPLATE ON KICK PANEL AND CUT OUT FRESH AIR DOOR ASSEMBLY AS SHOWN IN FIGURES 6 & 6a.
DEFROST DUCT INSTALLATION

- Install defrost ducts under dash and align with OEM opening. Install the driver/passenger side defrost duct to cowl using a #10 x 1/2" sheet metal screw. See Figure 7, below. **Note:** 1966 Chevelle driver side defrost duct installs behind the steering column bracket, and secures using the steering column OEM bolt as shown in Figure 7a.

![Diagram of defrost duct installation](image)

1966 Chevelle Driver Side Shown

- Center louver installation: refer to page 13

![Diagram of louver installation](image)
Driver Side Louver Template

1966-67 Chevelle
Driver Side
Louver Template

Fold Here

Plumb this line with a level

(2) OEM Bolts

Cut out

Bottom of Dash

Figure 9
1966-67 CHEVELLE
PASSENGER SIDE
LOUVER TEMPLATE

GLOVE BOX
DOOR OPENING

FOLD HERE

3"

HOLE

2 3/16"

FOLD HERE

PLUMB
THIS LINE
WITH A
LEVEL

1966-67 CHEVELLE
PASSENGER SIDE
LOUVER TEMPLATE

(2) OEM BOLTS

CUT OUT

BOTTOM OF DASH

FIGURE 10
1966-67 CHEVELLE without FACTORY AIR
CENTER VENT TEMPLATE

ALTERNATE MOUNTING HOLE
9/64" HOLE

ALTERNATE MOUNTING HOLE

REMOTE FACE PANEL FROM DASH. DRILL A 9/64" HOLE THROUGH CENTER STAND FROM BACK OF FACE PANEL. TURN PANEL OVER (FACE UP) AND CUT OUT TEMPLATE ALONG DOTTED LINE AND ALIGN THE 9/64" HOLE IN TEMPLATE WITH THE 9/64" HOLE DRILLED IN FACE PANEL.

NOTE: DO NOT EXCEED THE DIMENSIONS SHOWN ON TEMPLATE WHEN CUTTING.

NOTE: IF FACE PANEL IS NOT EQUIPPED WITH PLASTIC STANDS AND BRACKETS YOU MUST USE THE ALTERNATE MOUNTING PROCEDURE.

NOTE: REMOVE OEM SPEAKER, IF EQUIPPED, AND REINSTALL AFTER HOSE ADAPTER IS ATTACHED.

NOTE: LOOSEN OEM SCREWS AND ROTATE OEM BRACKETS 90°. TIGHTEN SCREWS WITH HOSE ADAPTER FLANGE BETWEEN BRACKET AND THE DASH. SEE FIGURE 11.
FRESH AIR COVER INSTALLATION

- INSTALL (4) GROMMETS IN FRESH AIR CAP. SEE FIGURE 12, BELOW.
- APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF THE FRESH AIR CAP AS SHOWN IN FIGURE 12, BELOW.
- ATTACH FRESH AIR CAP TO FIREWALL USING A 1/4-20 x 1 ½" BOLT AND WASHER. SEE FIGURE 12, BELOW. NOTE: FRESH AIR CAP INSTALLS ON ENGINE SIDE OF FIREWALL.

KICK PANEL FRESH AIR CAP INSTALLATION

- INSTALL (4) GROMMETS IN KICK PANEL FRESH AIR CAP. SEE FIGURE 13a, BELOW.
- ROUTE A/C AND HEATER HOSE THROUGH FRESH AIR CAP AND KICK PANEL FRESH AIR CAP AS SHOWN IN FIGURES 13 AND 13b, BELOW.
- APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF KICK PANEL FRESH AIR CAP AS SHOWN IN FIGURE 13a, BELOW.
- SECURE KICK PANEL FRESH AIR CAP USING OEM SCREWS, AS SHOWN IN FIGURE 13b, BELOW.
FIREWALL COVER INSTALLATION

- Apply a 1/4" bead of silicone around the back side of the firewall cover as shown in Figure 14, below.
- From inside the car, install firewall cover onto firewall using (4) 1/4-20 x 1" hex bolts, flat washers and 1/4-20 nuts with star washers. See Figure 14, below.

EVAPORATOR INSTALLATION

- On a workbench, install (2) heater fittings with properly lubricated O-rings. See Figure 20 page 18, and Figure 16, page 16.
- Install (2) 1/4-20 x 1" hex bolts and (2) 1/4" push nut bolt retainers on evaporator rear bracket as shown in Figure 16, page 16.
- Install evaporator front & rear mounting brackets on evaporator using (6) 1/4-20 x 1/2" hex bolts, and tighten as shown in Figure 15, below & Figure 16, page 16.
- Lay evaporator sub case on passenger side floorboard. Install A/C & heater hose onto evaporator as shown in Figure 17, page 17, and hose installation instructions on page 19.
- **Note:** Wrap the #10 fitting connections with press tape. See Figure 17, page 17.
BRACKET INSTALLATION CONT.

FIGURE 16

(2) HEATER FITTINGS

REAR EVAPORATOR BRACKET 643059

18290-VUB
1/4-20 x 1” HEX BOLT

189125-MUR
1/4” PUSH NUT BOLT RETAINER

(2) 1/4-20 x 1/2” HEX BOLTS

18290-VUB
1/4-20 x 1” HEX BOLT

189125-MUR
1/4” PUSH NUT BOLT RETAINER

(2) 1/4-20 x 1/2” HEX BOLTS
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 18.
- Secure the front evaporator mounting bracket to cowl using (2) #14 x 3/4” hex sheet metal screws. See Figure 18, below.
- Verify that the evaporator unit is level and square to the dash. Then tighten all mounting bolts. **Note: Tighten the bolt on firewall first. Then tighten the front mounting bracket.**
LOCATE THE #8 COMPRESSOR A/C HOSE. LUBRICATE (2) #8 O-RINGS (SEE FIGURE 20, 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 21, PAGE 19. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 20, ABOVE.

LOCATE THE #10 COMPRESSOR A/C HOSE. LUBRICATE (2) #10 O-RINGS (SEE FIGURE 20, 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 17, PAGE 17, AND FIGURE 21, PAGE 19. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 20, ABOVE.

LOCATE THE #6 EVAPORATOR A/C HOSE. LUBRICATE (2) #6 O-RINGS (SEE FIGURE 20, ABOVE) AND CONNECT THE 90° FEMALE FITTING TO THE DRIER. ROUTE THE 90° FEMALE FITTING TO THE #6 EVAPORATOR. SEE FIGURE 17, PAGE 17, AND FIGURE 21, PAGE 19. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 20, ABOVE.

REFER TO SEPARATE INSTRUCTIONS INCLUDED WITH MODIFIED HOSE KIT.
A/C & HEATER HOSE ROUTING
1966-67 CHEVELLE SHOWN

NOTE: VINTAGE AIR SYSTEMS REQUIRE (2) 5/8” HOSE NIPPLES (NOT SUPPLIED).

#8 DISCHARGE HOSE 096067

FROM EVAPORATOR TO WATER PUMP

#8 COMPRESSOR HARDLINE COMPRESSION ADAPTER 091167

NOTE: FLOW DIRECTION FOLLOWS MOLDED ARROW ON VALVE.

#6 HOSE FROM HEATER CONTROL VALVE TO EVAPORATOR 096066

#6 HARDLINE DRIER/CONDENSER 091166

NOTE: FLOW DIRECTION FOLLOWS MOLDED ARROW ON VALVE.

#6 CONDENSER/HARDLINE 091167

NOTE: INSTALL HEATER CONTROL VALVE IN LINE WITH INTAKE MANIFOLD (PRESSURE SIDE) HEATER HOSE. SECURE USING HOSE CLAMPS AS SHOWN IN FIGURE 21, BELOW. NOTE PROPER FLOW DIRECTION.

ROUTE A PIECE OF HEATER HOSE FROM THE WATER PUMP TO THE TOP HEATER FITTING OF HEATER CORE AS SHOWN IN FIGURE 17, PAGE 17, AND FIGURE 21, 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 17, PAGE 17, AND FIGURE 21, BELOW. SECURE USING HOSE CLAMPS AS SHOWN IN FIGURE 21, BELOW. NOTE PROPER FLOW DIRECTION.

FIGURE 21
FINAL STEPS

- Install duct hoses as shown in Figure 24, Page 21.
- Route A/C wires through 3/8" grommet as shown in Figure 22 (12 volt/ground/binary switch/heater valve).
- Install control panel assembly.
- Plug the wiring harnesses into the ECU module on the sub case as shown in Figure 24, Page 21 (wire according to wiring diagrams on Pages 22 and 23).
- Install new glove box using (4) #8 x 1/2" ph pan head screws. See Figure 23.
- 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 24.
CONTROL PANEL & DUCT HOSE ROUTING

CONTROL PANEL HARNESS FROM ECU 232002-VUA

DEFROST DUCT DR. SIDE 2” x 30”

DEFROST DUCT PASS. SIDE 2” x 12”

CENTER LOUVER 2” x 15”

PLUG FROM WIRING HARNESS 232001-VUR

PASS. SIDE LOUVER 2 ½” x 48”

DRIVER SIDE LOUVER 2 1/8” x 36”

FIGURE 24
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.
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.

**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).
On Gen IV systems with three lever/knob controls, the temperature control toggles between heat and A/C operations. To activate A/C, move the temperature lever/knob all the way to cold and then back it off to the desired vent temperature. For heat operation, move the temperature lever/knob all the way to hot and then adjust to the desired vent temperature. The blower will momentarily change speed, each time you toggle between operations, to indicate the change. NOTE: For proper control panel function, refer to control panel instructions for calibration procedure.

**Blower Speed**
- This lever/knob controls blower speed, from **OFF** to **HI**.

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

**Temperature Control**
- This lever/knob controls the temperature, from **HOT** to **COLD**.

### A/C Operation

- **Blower Speed**: Adjust to desired speed.
- **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.
- **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).
### Troubleshooting Guide

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Condition</th>
<th>Checks</th>
<th>Actions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blower stays on high speed when ignition is on.</td>
<td>No other functions work.</td>
<td>Check for damaged pins or wires in control head plug.</td>
<td>Verify that all pins are inserted into plug. Ensure that no pins are bent or damaged in ECU.</td>
<td>Loss of ground on this wire renders control head inoperable.</td>
</tr>
<tr>
<td></td>
<td>All other functions work.</td>
<td>Check for damaged ground wire (white) in control head harness.</td>
<td>Verify continuity to chassis ground with white control head wire at various points.</td>
<td></td>
</tr>
<tr>
<td>Blower stays on high speed when ignition is on or off.</td>
<td>Unplug 3-wire BSC control connector from ECU. If blower shuts off, ECU is either improperly wired or damaged.</td>
<td>Unplug 3-wire BSC control connector from ECU. If blower stays running, BSC is either improperly wired or damaged.</td>
<td>Be sure the small, 20 GA white ground wire is connected to the battery ground post. If it is, replace the ECU.</td>
<td>No other part replacements should be necessary.</td>
</tr>
<tr>
<td></td>
<td>System is not charged.</td>
<td>Check for faulty A/C potentiometer or associated wiring (Not applicable to 3-pot controls).</td>
<td>Check continuity to ground on white control head wire.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>System is charged.</td>
<td>Check for disconnected or faulty thermistor.</td>
<td>Check 2-pin connector at ECU housing.</td>
<td></td>
</tr>
<tr>
<td>Compressor will not turn off (All other functions work).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>System is not charged.</td>
<td>Check for faulty A/C potentiometer or associated wiring.</td>
<td>Check continuity to ground on white control head wire.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>System is charged.</td>
<td>Check for disconnected or faulty thermistor.</td>
<td>Check 2-pin connector at ECU housing.</td>
<td></td>
</tr>
<tr>
<td>Compressor will not turn off (All other functions work).</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tbody>
</table>

**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.

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.
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Condition</th>
<th>Checks</th>
<th>Actions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>System will not turn on, or runs intermittently.</td>
<td>Works when engine is not running; shuts off when engine is started (Typically early Gen IV, but possible on all versions).</td>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Noise interference from either ignition or alternator.</td>
<td>Verify connections on power lead, ignition lead, and both white ground wires.</td>
<td>Verify proper meter function by checking the condition of a known good battery.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Will not turn on under any conditions.</td>
<td>Verify battery voltage is greater than 10 volts and less than 16.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Loss of mode door function.</td>
<td>No mode change at all.</td>
<td>Check for damaged mode switch or potentiometer and associated wiring.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Partial function of mode doors.</td>
<td>Check for obstructed or binding mode doors.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Battery voltage is at least 12V.</td>
<td>Battery voltage is less than 12V.</td>
<td>Ensure all system grounds and power connections are clean and tight.</td>
<td>System shuts off blower at 10V. Poor connections or weak battery can cause shutdown at up to 11V.</td>
</tr>
<tr>
<td></td>
<td>Blower turns on and off rapidly.</td>
<td>Check for at least 12V at circuit breaker.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Erratic functions of blower, mode, temp, etc.</td>
<td>Check for faulty battery or alternator.</td>
<td>Charge battery.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Repair or replace.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>When ignition is turned on, blower momentarily comes on, then shuts off. This occurs with the blower switch in the OFF position.</td>
<td>Check for damaged switch or pot and associated wiring.</td>
<td>Run red power wire directly to battery.</td>
<td></td>
</tr>
</tbody>
</table>
CUT ALONG DOTTED LINE

67 CHEVELLE KICK PANEL MODIFICATION TEMPLATE

CUT ALONG DOTTED LINE

CUT THIS AREA
** 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.**

### EVAPORATOR KIT PACKING LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>QTY.</th>
<th>PART No.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1</td>
<td>762169</td>
<td>GEN IV 4-VENT with 2” &amp; 2 1/2” EVAPORATOR SUB CASE</td>
</tr>
<tr>
<td>2.</td>
<td>1</td>
<td>784161</td>
<td>1966-67 CHEVELLE without A/C ACCESSORY KIT</td>
</tr>
</tbody>
</table>

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