



an ISO 9001:2015 Registered Company

1965-66 Chevrolet Impala

Control Panel Kit
(473247)



18865 Goll St. San Antonio, TX 78266
Phone: 800-862-6658
Sales: sales@vintageair.com
Tech Support: tech@vintageair.com
www.vintageair.com



www.vintageair.com

Table of Contents

Cover.....	1
Table of Contents.....	2
Packing List/Parts Disclaimer.....	3
Important Notice, OEM Control Panel Removal.....	4
Control Panel Installation.....	5
Control Panel Installation (Cont.).....	6
Control Panel Calibration Procedure.....	7
Control Panel Calibration Procedure (Cont.).....	8
Wiring Diagram.....	9
Operation of Controls.....	10
Packing List.....	11



www.vintageair.com

Packing List: Control Panel Kit (473247)

No.	Qty.	Part No.	Description
1.	1	473248	Control Panel Assembly
2.	1	232007-VUR	Control Harness, Gen IV Universal
3.	1	231520	Ground Wire

**** 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



2



3



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



www.vintageair.com

Important Notice—Please Read

- This control panel kit requires the OEM heat only or A/C control chrome bezel.
- Chrome bezels are interchangeable from 65-66 B-Body A/C or non-A/C cars, and 67-72 C/K factory A/C trucks

OEM Control Panel Removal

Perform the Following:

1. Remove (2) control panel mounting screws from the lower dash (See Photo 1, below).
2. Disconnect the (2) lights, cables and vacuum lines or plugs, if equipped, from the panel and carefully remove it from the dash (See Photos 2 and 3, below)
3. Locate (6) metal tabs and bend them back to allow the chrome bezel to be removed (See Photo 4, below).
4. Remove the bezel for use on the new assembly (See Photo 5, below).

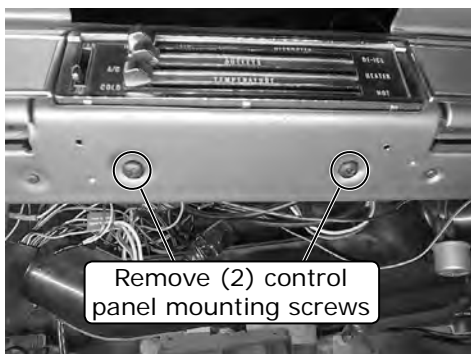


Photo 1



Photo 2



Photo 3

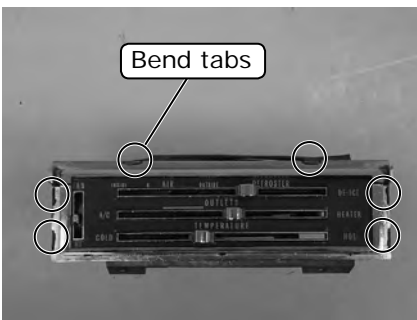


Photo 4



Photo 5



www.vintageair.com

Control Panel Installation

1. Ensure that (2) #4-40 screws are backed out of the locknuts to allow the bezel to be inserted (See Photo 1, below).
2. Slide the chrome bezel into the right side tab of the control panel assembly (See Photo 2, below).
3. Flip the assembly and fasten the panel bracket over the bezel tab. Tighten (2) #4-40 screws using a #1 Phillips screwdriver and 1/4" wrench (See Photo 3, below).
4. Bezel installed (See Photo 4, below).

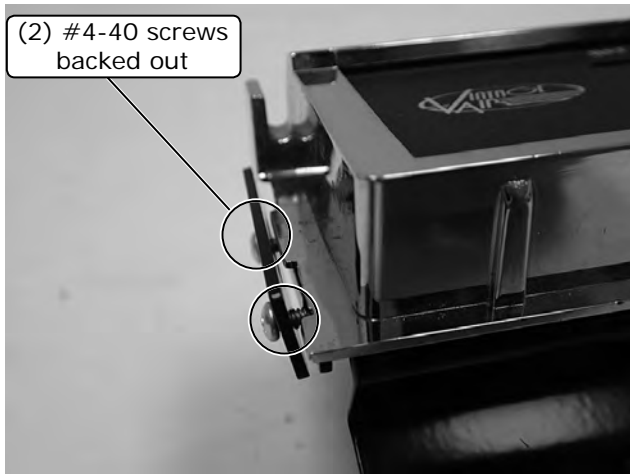


Photo 1

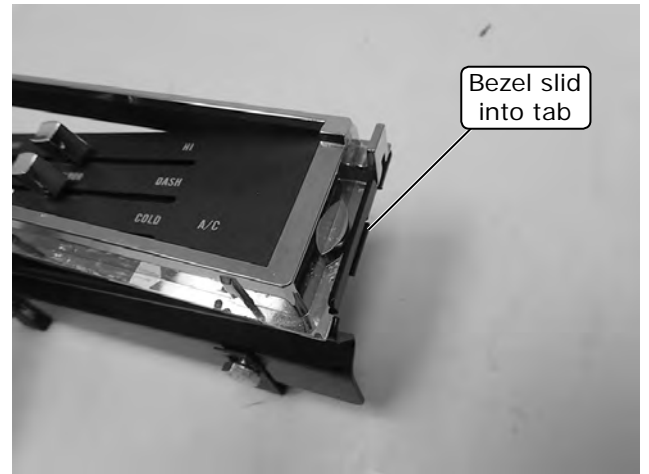
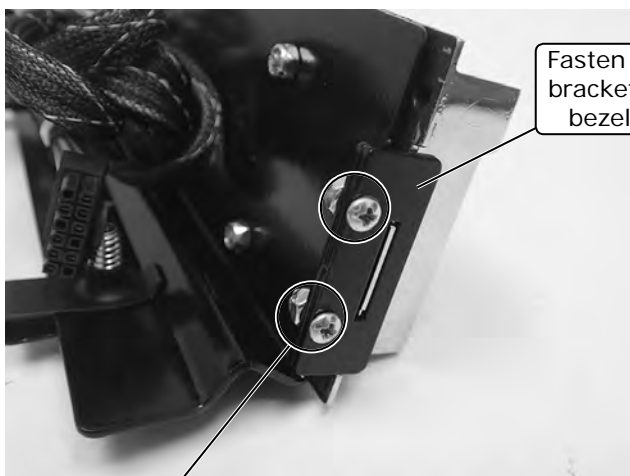


Photo 2



Tighten (2) #4-40 screws

Photo 3

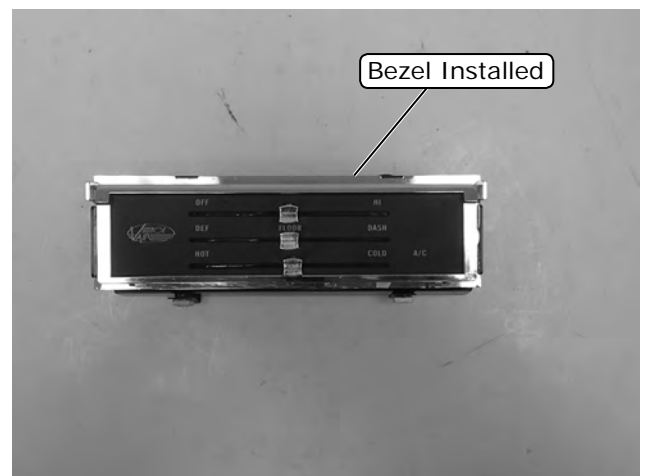


Photo 4



www.vintageair.com

Control Panel Installation (Cont.)

5. Remove (2) 1/4-20 x 3/4" hex bolts from the U-nuts on the bottom of the assembly to prepare for installation (See Photo 5, below).
6. Install the control panel into the dash from the rear using (2) 1/4-20 x 3/4" bolts through the bottom of dash and into the control panel assembly. Tighten the bolts using a 7/16" nut-driver or socket (See Photo 6, below). **NOTE: If installing non-factory A/C, these two bolt holes will be used to secure the under-dash assembly; do not tighten fully.**
7. Plug the control panel harness connector into the ECU (See Photo 7, below). **NOTE: The ECU module is located on the evaporator sub case. When using a Vintage Air-supplied control panel, connect the tan wire from the GEN IV evaporator wiring harness to the factory dash lights to enable panel backlighting.**
8. Control panel installed (See Photo 8, below) **NOTE: This control panel requires calibration. Please continue to the next section for calibration process.**

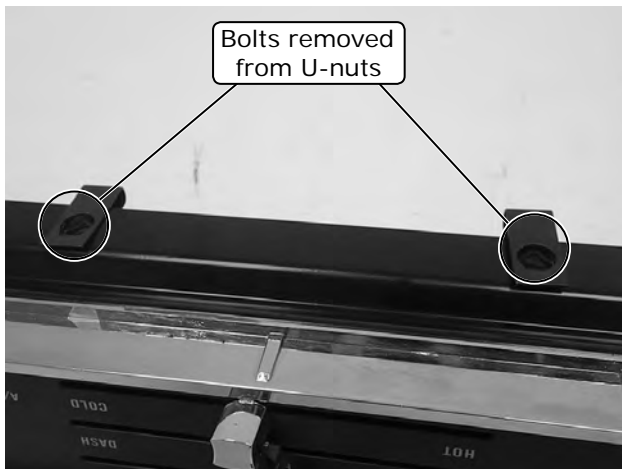


Photo 5

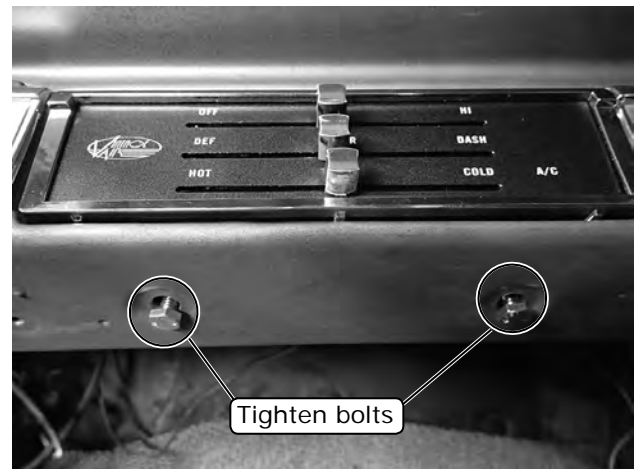


Photo 6

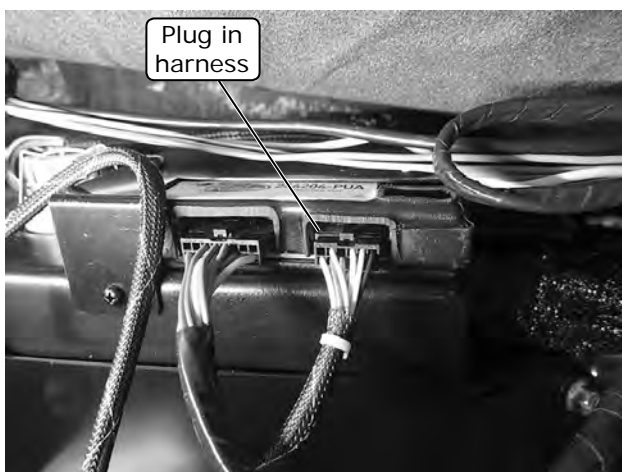


Photo 7



Photo 8

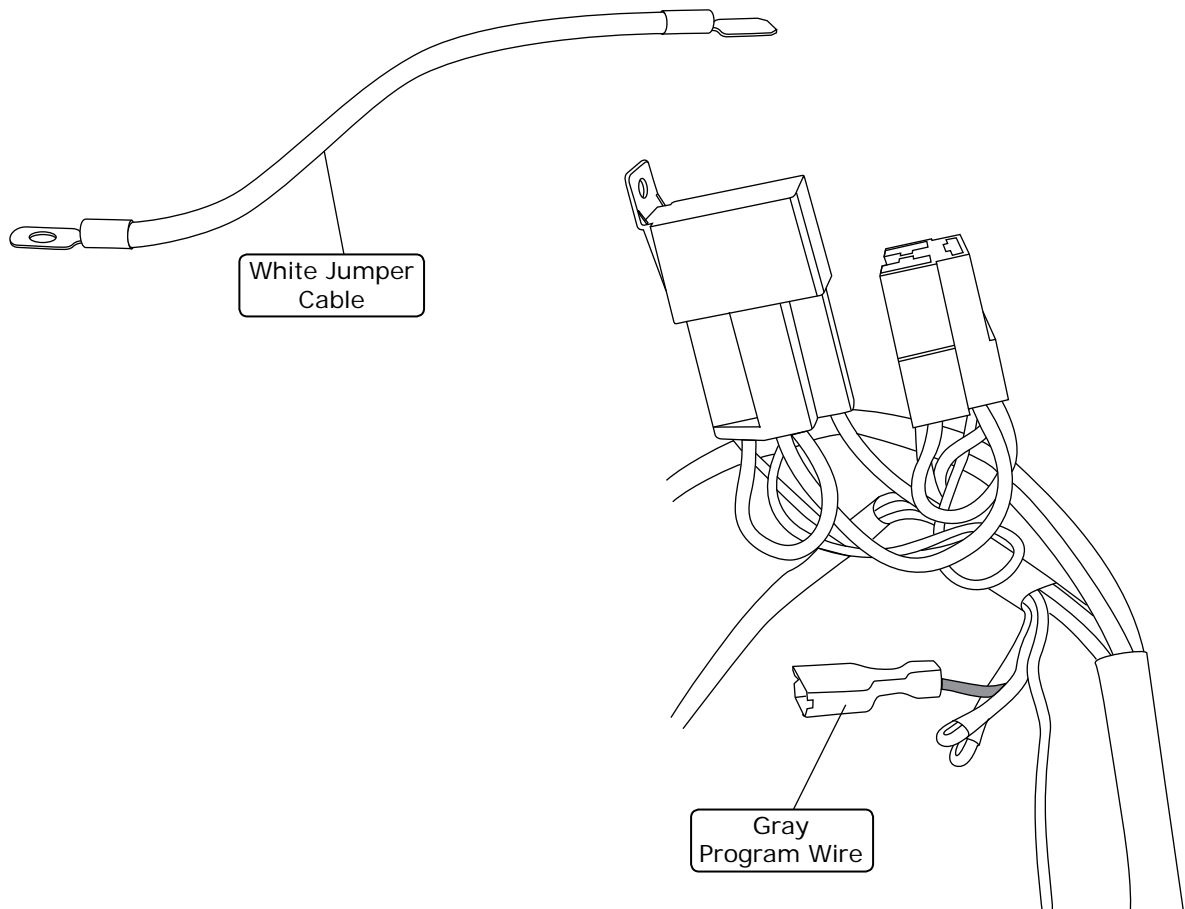


www.vintageair.com

Control Panel Calibration Procedure

On Vintage Air Gen IV systems using cable converters or replacement electronic controls, it is necessary to calibrate the system to your specific control panel. This procedure ensures that the stroke of your control panel levers or knobs is translated into precise control of the fan speed, temperature blend and mode door position. Please carefully read and understand these procedures before beginning. The procedure may be repeated as many times as necessary to get it right.

In preparation for calibration, you will need to attach the supplied white ground jumper wire to a suitable chassis ground. This jumper wire must be easily connected to the gray programming wire located in the main Gen IV wiring harness next to the compressor relay. During the calibration procedure, you will connect the white jumper to the gray program wire, which will "teach" the Gen IV ECU the upper limits of the control levers or knobs. The blower will momentarily change speeds, signaling that the upper limits have been "learned". You will move the levers or knobs to opposite extreme positions of their travel and then disconnect the white jumper. The blower will again change speeds, signaling that the lower limits have been learned and that the calibration procedure is complete.



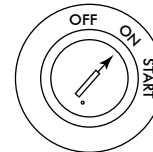


www.vintageair.com

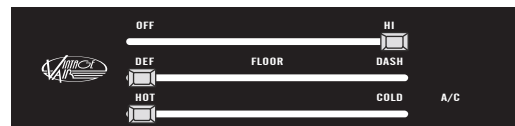
Control Panel Calibration Procedure (Cont.)

For proper operation of your system when installing this control panel, you must calibrate the system. Please follow the procedure below.

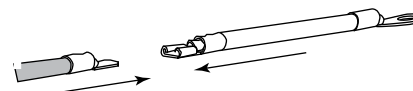
- 1. Turn on the ignition switch (Do not start the engine).



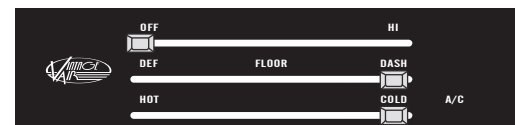
- 2. Move the control levers/knobs to the positions shown.



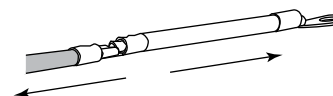
- 3. Connect the white jumper wire to the gray program wire. Wait for the blower speed to change (approximately 5 seconds).



- 4. Move the control levers/knobs to the positions shown.



- 5. Disconnect the white jumper wire from the gray program wire. The blower speed will change, indicating completion of the calibration procedure.



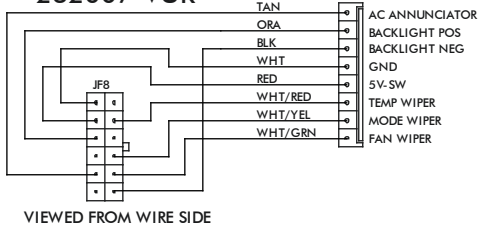
- 6. Confirm proper operation of controls. Repeat procedure if necessary. When finished, tape over program wire connector with electrical tape to prevent accidental contact with chassis ground.



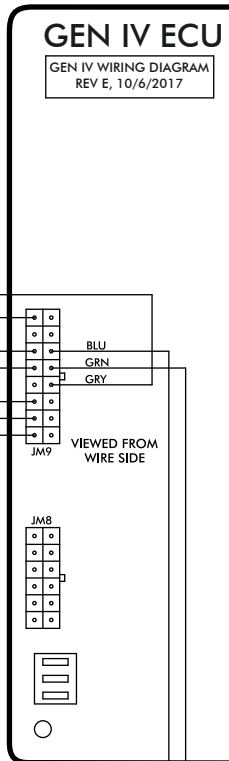
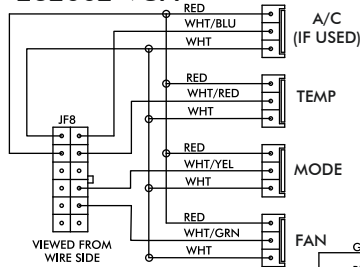
www.vintageair.com

Wiring Diagram

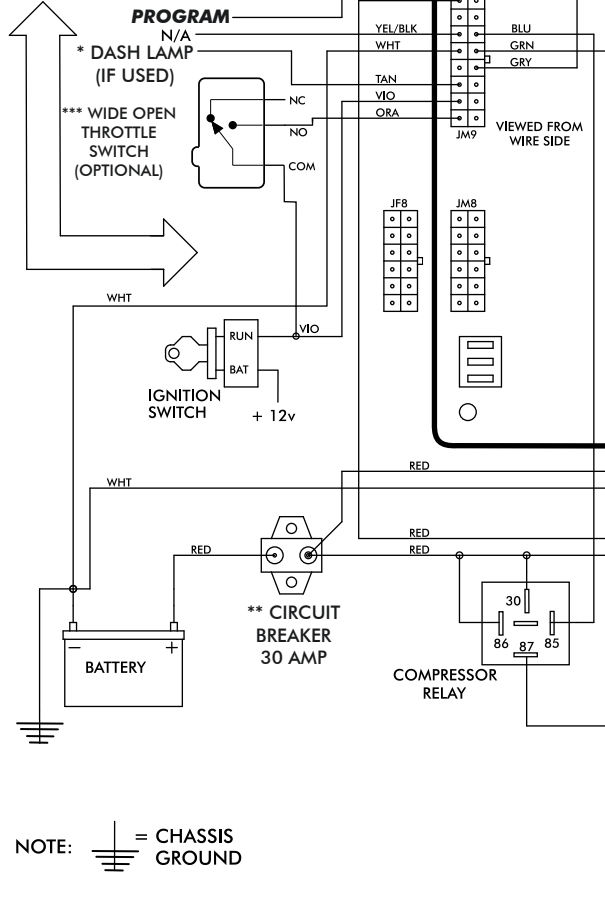
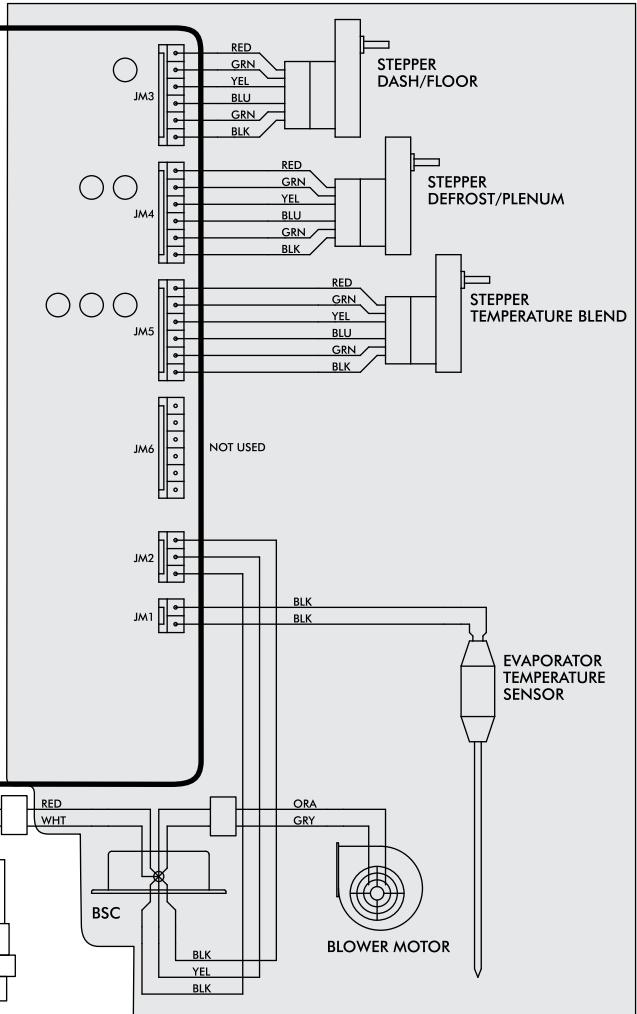
232007-VUR



232002-VUA



PRE-WIRED



NOTE: = CHASSIS GROUND

- * Dash lamp is used only with type 232007-VUR harness.
- ** Warning: Always mount circuit breaker as close to the battery as possible. (NOTE: Wire between battery and circuit breaker is unprotected and should be carefully routed to avoid a short circuit).
- *** Wide open throttle switch contacts close only at full throttle, which disables A/C compressor.



www.vintageair.com

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.

Blower Speed

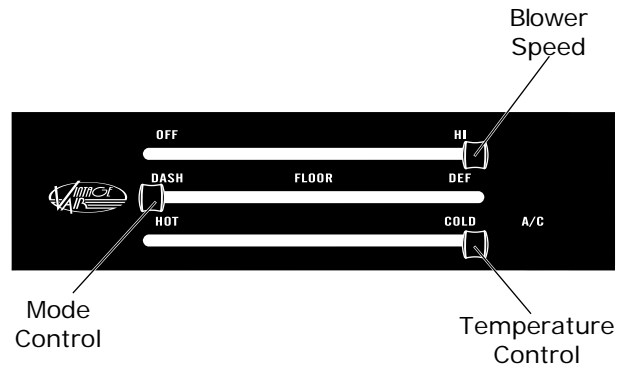
This lever/knob controls blower speed, from OFF to HI.

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.

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.

Mode Control

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

Temperature Control

Adjust to desired temperature.





www.vintageair.com

Packing List: Control Panel Kit (473247)

No.	Qty.	Part No.	Description
1.	1	473248	Control Panel Assembly
2.	1	232007-VUR	Control Harness, Gen IV Universal
3.	1	231520	Ground Wire

Checked By: _____
 Packed By: _____
 Date: _____

1



2



3



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