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

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Packing List: Control Panel Kit (473059) 1955-56 Chevrolet Full-Size

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No.	Qty.	Part No.	Description	
1.	3	112002-SUA	Cable Converter Assembly	
2.	1	232002-VUA	Control Harness, Gen IV Universal	
3.	4	65976-VUE	Push-on Ring, 3/16"	
4.	3	491010-VUR	Cable Converter Clamp	
5.	1	647055	Lever, Blower Switch	
6.	1	647056	Bracket, Blower Switch Adapter	
7.	2	188569	Clevis Pin, 3/16" x 5/8"	
8.	4	21301-VUP	Tie Wrap, 4″	
9.	1	231520	Ground Wire	
10.	1	180007-SSR	Spacer, Nylon Shoulder	
11.	1	180006-SSR	Spacer, Nylon	
12.	1	18105-VUB	Screw, 8-32 x 3/8", Pan Head	
13.	1	18310-VUB	Bolt, 5/16-18 x 1 1⁄2", Hex	
14.	1	18151-VUB	Locknut, 5/16-18	
15.	3	18125-VUB	Washer, .312 ID x .750 OD, Flat	
16.	1	48401-PCR	Placard, Control Panel	
17.	1	180911	Washer, .009, Wave	
18.	3	18107-VUB	Locknut, 6-32	
19.	2	18122-VUB	Washer, #6	
20.	3	18237-VUB	Screw, 6-32 x 3/8", Pan Head	
21.	1	18602-NSR	Locknut, 8-32	
22.	1	182534	Spacer, 1/4", Nylon	
23.	1	182535	Spacer, 5/16", Nylon	
24.	1	18258-VUB	Screw, 10-32 x 3/4", Pan Head	
25.	1	18251-VUB	Nut with Star Washer, 10-32	

** 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.





Control Panel Disassembly

Perform the Following:

- 1. Remove the OEM control knobs (retain).
- 2. Remove the OEM blower switch (discard).
- 3. Remove the control panel bezel (retain).
- 4. Remove the OEM placard (discard).
- 5. Remove the inside/outside air lever retaining clip and stud (discard).





Cold/Hot Cable Control Modification

- 1. Measure and note the spacing between the cold and hot levers (See Figure 2, below).
- **2**. Install a tight fitting pin or screw through the center of both temperature levers (See Figure 2, below).
- 3. Using the reference shown in Figure 3, below, mark the area of the levers to be drilled.
- 4. Secure the lever assembly by placing the correct nylon spacer between the levers (See Figure 3, below). NOTE: The measurement taken in Step 1, above, will determine which nylon spacer (1/4" or 5/16") will be used. With the correct spacer in place, the levers should remain parallel to one another.
- **5.** With the lever assembly secure, drill a 13/64" hole through both levers at the location marked in Step 3, above. After drilling, remove the nylon spacer from between the levers.

























OEM Control Panel Reinstallation

1. Remove the (2) U-nuts from the bottom of the control panel opening in the dash (See Photo 1, below).

2. Insert the control panel wiring harness through the dash opening (See Photo 2, below).

3. Insert the blower speed and mode cable converters through the dash opening as shown in Photo 3, below.



Photo 1



Photo 2





OEM Control Panel Reinstallation (Cont.)

- **1.** Push the temperature cable converter upward, and carefully insert the control panel into the dash. **NOTES:**
 - A. When inserting the control panel into the dash, some bending of the cable converter arms will be necessary in order to obtain clearance. This is to be expected, and it will not damage the cable converter assemblies (See Photos 4 & 5, below).
 - B. The temperature knobs on the control panel may be moved up or down as needed to help provide control panel installation clearance (See Photo 6, below).
 - C. When the control panel has been inserted, but before it is fully seated against the dash, reinstall the (2) U-nuts removed in Step 1, Page 16.
- 2. Secure the control panel by reinstalling the OEM screws (See Photo 7, below).



Photo 4



Photo 5



Photo 6



Photo 7



Final Steps

- A. Calibrating the control panel will set the range of travel for the cable converters connected to the OEM control panel levers. Performing this procedure will set the limits of the cable converters at their highest
- B. Locate the gray wire with an unused connector in the wiring harness near the cable harness relay. This
- C. It will be necessary to ground the gray wire for approximately five seconds while moving the controls, so it is sometimes helpful to attach one end of the white jumper to the vehicle's ground (for example, the chassis) and have the other end ready to connect to the gray PROGRAM wire when the procedure requires it.
- D. To calibrate the control panel, follow the calibration procedures on Pages 19 & 20.





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.

White Jumper Cable Gray Program Wire



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over program wire connector with electrical tape to prevent accidental contact with chassis ground.



- ** 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

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Operation of Controls

On Gen IV systems with three lever/knob controls, the temperature control toggles between heat and A/C operations. To activate A/C, move the temperature lever/knob all the way to cold and then back it off to the desired vent temperature. For heat operation, move the temperature lever/knob all the way to hot and then adjust to the desired vent temperature. The blower will momentarily change speed, each time you toggle between operations, to indicate the change. **NOTE: For proper control panel function, refer to Pages 19 & 20 for calibration procedure.**





Packing List: Control Panel Kit (473059) 1955-56 Chevrolet Full-Size

No.	Qty.	Part No.		Descriptio	n						
1.	3	112002-9	SUA	Cable Conv	erter Assem	nbly					
2.	1	232002-\	VUA	Control Har	ness, Gen I	V Universal					
3.	4	65976-VI	UE	Push-on Rir	ng, 3/16″						
4.	3	491010-\	VUR	Cable Conv	erter Clamp	1					
5.	1	647055		Lever, Fan S	Switch						
6.	1	647056		Bracket, Fa	n Switch, Po	ot Adapter					
7.	2	188569		Clevis Pin, 3	3/16″ x 5/8′	"					
8.	4	21301-V	UP	Tie Wrap, 4	"						
9.	1	231520		Ground Wir	е						
10.	1	180007-9	SSR	Spacer, Nyl	on Shoulder	-					
11.	1	180006-9	SSR	Spacer, Nyl	on						
12.	1	18105-V	UB	Screw, 8-32	2 x 3/8", Pai	n Head					
13.	1	18310-V	UB	Bolt, 5/16-	18 x 1 ½″, ⊦	lex					
14.	1	18151-V	UB	Locknut, 5/16-18							
15.	3	18125-V	UB	Washer, 312 ID x 750 OD Flat							
16.	1	48401-P	CR	Placard, Co	ntrol Panel						
17.	1	180911		Washer, .00	9, Wave						
18.	3	18107-V	UB	Locknut 6-32							
19.	2	18122-V	UB	Washer, #6							
20.	3	18237-VI	UB	Screw, 6-32	2 x 3/8″, Pai	n Head					
21.	1	18602-N	SR	Locknut, 8-	32						
22.	1	182534		Spacer, 1/4". Nylon							
23.	1	182535		Spacer, 5/16". Nylon							
24.	1	18258-VI	UB	Screw, 10-3	., 32 x 3/4", Pa	an Head					
25.	1	18251-V	UB	Nut with St	ar Washer,	10-32					
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