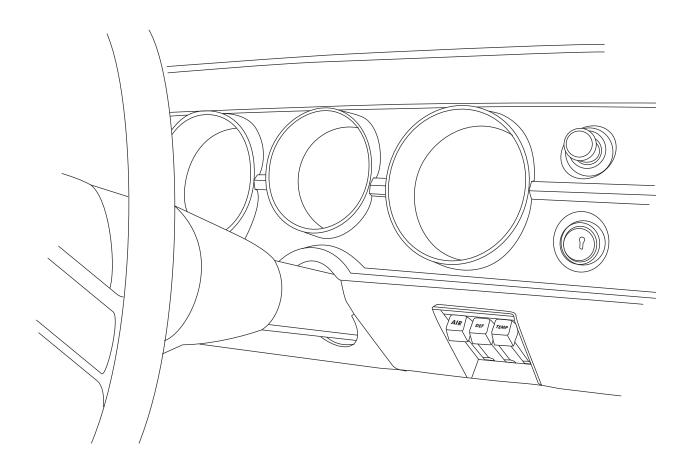


an ISO 9001: 2008 Registered Company

1964-65 CHEVELLE

WITHOUT AC CONTROL PANEL CONVERSION KIT 473064



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



Table of Contents

PAGES

- 1. COVER
- 2. TABLE OF CONTENTS
- 3. PACKING LIST/ PARTS DISCLAIMER
- 4. REMOVING OEM CONTROL PANEL

FIGURE 1

- 5. CABLE CONVERTER ASSEMBLY MODIFICATIONS & CABLE CONVERTER ASSSEMBLY MOUNTING CLAMP INSTALLATION FIGURES 2 & 3
- 6. COLD/ HOT CABLE CONVERTER ASM INSTALLATION & CONTROL HARNESS

FIGURES 4 & 5

- 7. CONTROL HARNESS CONT. & DASH/ FLR/ DEF CONVERTER ASM INSTALLATION FIGURES 6 & 7
- 8. CONTROL HARNESS & CONTROL HARNESS CONT.

FIGURES 8 & 9

- 9. OFF/ HI CABLE CONVERTER ASM INSTALLATION & CONTROL HARNESS FIGURES 10 & 11
- 10. CONTROL HARNESS CONT. & CONTROL HARNESS FINAL STEP FIGURES 12 & 13
- 11. FINAL STEP & FINAL STEPS CONT.

FIGURES 14 & 15

- 12. CONTROL PANEL CALIBRATION PROCEDURE
- 13. CONTROL PANEL CALIBRATION PROCEDURE CONT.
- 14. WIRING DIAGRAM
- 15. OPERATION OF CONTROLS
- 16. CONTROL PANEL KIT PACKING LIST

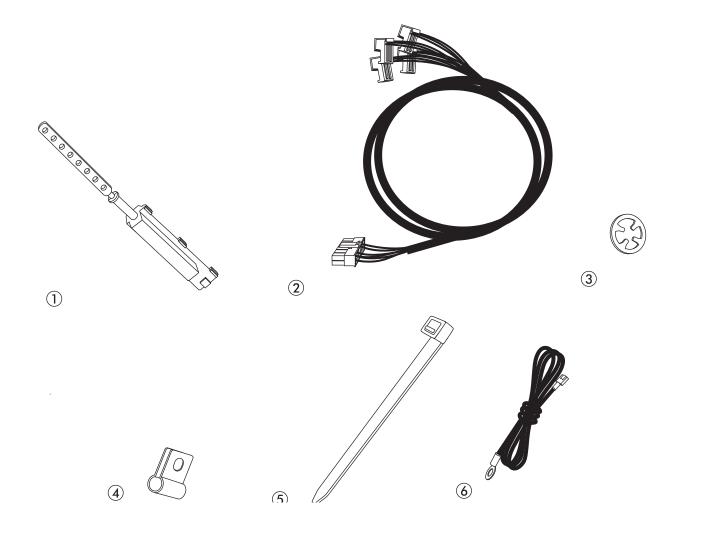


CONTROL KIT PACKING LIST

CONTROL KIT 473064

				470004
No.	QTY.	PART No.	DESCRIPTION	
1.	3	112002-SUA	SLIDE POT ASM	
2.	1	232002-VUA	GEN IV UNIVERSAL CONTROL HARNESS	
3.	3	65976-VUE	3/16" PUSH-ON RING	
4.	3	491010-VUR	SLIDE POT CLAMP	
5.	5	21301-VUP	4" TIE WRAP	
6.	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.





REMOVING OEM CONTROL PANEL -

- ☐ REMOVE (4) OEM MOUNTING SCREWS FROM BOTTOM OF DASH (RETAIN SCREWS). SEE FIGURE 1 BELOW.
- ☐ DISCONNECT CABLES, WIRES FROM BACK OF CONTROL PANEL.
- ☐ REMOVE THE CONTROL PANEL.

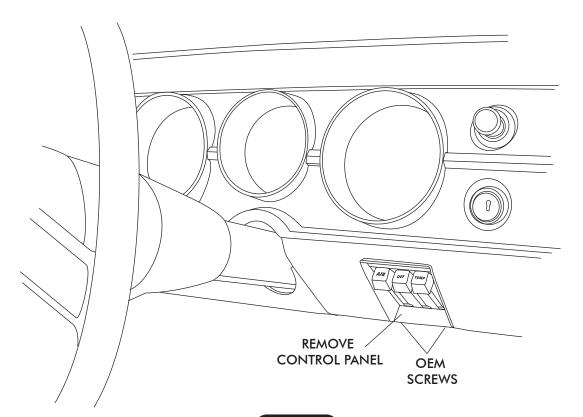
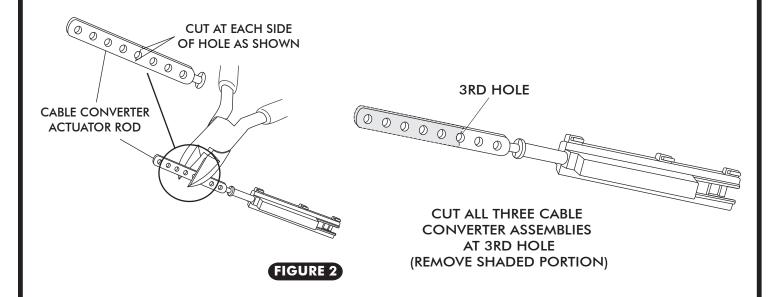


FIGURE 1



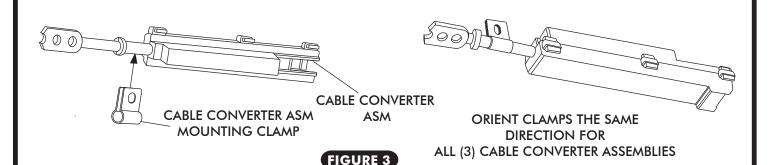
CABLE CONVERTER ASSEMBLY MODIFICATIONS —

☐ LOCATE THE (3) CABLE CONVERTER ASSEMBLIES, AND USING A PAIR OF WIRE CUTTERS, CUT CABLE CONVERTER ACTUATOR RODS AS SHOWN IN FIGURE 2 BELOW.



CABLE CONVERTER ASSEMBLY MOUNTING CLAMP INSTALLATION -

☐ INSTALL CABLE CONVERTER ASM MOUNTING CLAMPS, SEE FIGURE 3 BELOW



ORIENT SLIDE POT ASSEMBLIES AS SHOWN AND INSTALL MOUNTING CLAMPS AS SHOWN.
(NOTE: ORIENT CLAMPS IN RELATION TO THE (3) HOUSING SNAPS ON SLIDE POT ASSEMBLY)

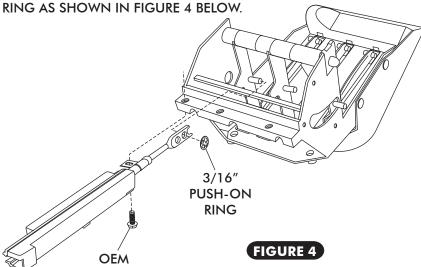


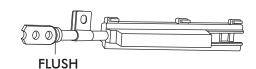
CABLE CONVERTER ASSEMBLY INSTALLATION —

COLD/HOT CABLE CONVERTER ASSEMBLY

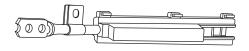
- □ INSTALL CABLE CONVERTER ASM ON THE COLD/ HOT LEVER. SEE FIGURE 4 BELOW.
- ☐ INSTALL CABLE CONVERTER LEVER PUSH ROD ONTO OEM CABLE MOUNTING STUD ON LEVER. SEE FIGURE 4, BELOW.
- ☐ SECURE THE CABLE CONVERTER ASM TO THE CONTROL PANEL USING THE OEM SCREW IN THE OEM CABLE CLAMP MOUNTING LOCATION. SEE FIGURE 4, BELOW.
- ☐ SINCE THE CABLE CONVERTER ASSEMBLY CAN SLIDE BACK AND FORTH IN CLAMP BEFORE SCREW IS TIGHTENED, POSITION CABLE CONVERTER ASSEMBLY SUCH THAT THE FLAT PART OF THE ROD IS AS CLOSE TO FLUSH AS POSSIBLE WITH THE END OF HOUSING AT THE LEVER'S INNER MOST POSITION. SEE FIGURE 4.

□ SECURE CABLE CONVERTER LEVER PUSH ROD ONTO OEM CABLE MOUNTING STUD USING 3/16" PUSH-ON





ROD SHOWN IN APPROX.
INNER MOST POSTION

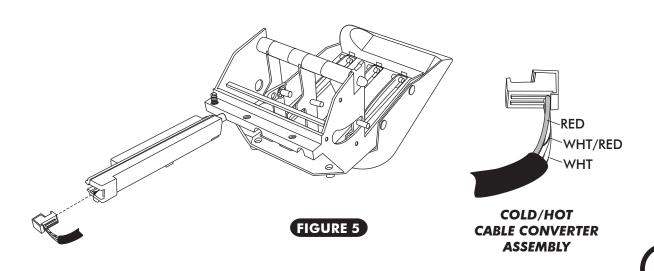


NOTE: DO NOT ALLOW ROD TO SEPARATE HOUSING WHEN ROD IS IN INNER MOST POSITION.

CONTROL HARNESS -

SCREW

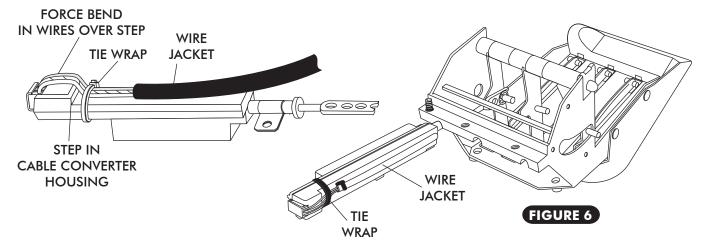
☐ LOCATE THE CONTROL PANEL WIRE HARNESS AND PLUG THE CORRESPONDING WIRES INTO THE CORRECT CABLE CONVERTER ASSEMBLY AS SHOWN IN FIGURE 5, BELOW.





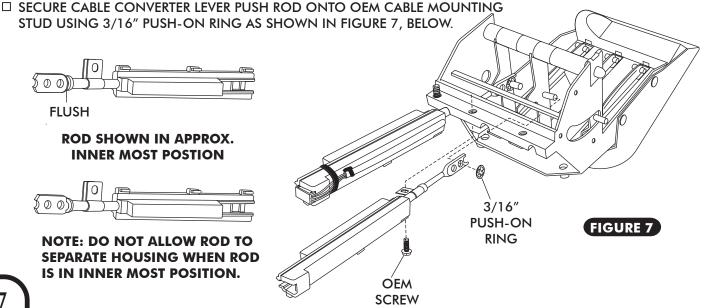
CONTROL HARNESS CONT.

☐ ONCE WIRES ARE CORRECTLY PLUGGED INTO CABLE CONVERTER ASSEMBLY, SECURE WIRES TO THE CABLE CONVERTER ASSEMBLY USING TIE WRAPS (SUPPLIED). SEE FIGURE 6 BELOW. THE TIE WRAP MUST BE LOCATED BETWEEN THE END OF THE WIRE JACKET AND THE STEP IN THE CABLE CONVERTER HOUSING FORCING A BEND IN EACH WIRE AS THEY PASS OVER THE STEP IN THE CABLE CONVERTER HOUSING. HEAD OF TIE WRAP MUST FALL ON EDGE OF HOUSING AS SHOWN TO REMAIN TIGHT. ENSURE THAT THE TIE WRAPS ARE SNUG ENOUGH THAT THE WIRES CANNOT MOVE. SEE FIGURE 6.



DASH/FLR/DEF CABLE CONVERTER ASSEMBLY-

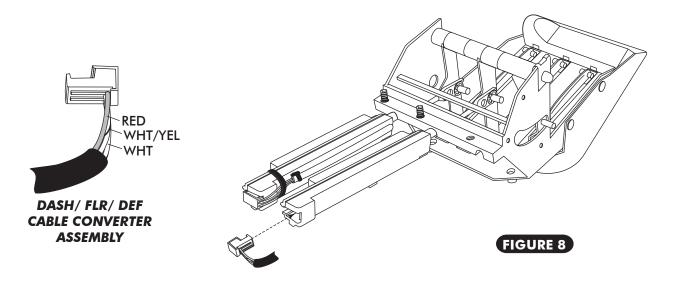
- ☐ INSTALL CABLE CONVERTER ASM ON THE DASH/ FLR/ DEF LEVER. SEE FIGURE 7, BELOW.
- ☐ INSTALL CABLE CONVERTER LEVER PUSH ROD ONTO OEM CABLE MOUNTING STUD ON LEVER. SEE FIGURE 7, BELOW.
- ☐ SECURE THE CABLE CONVERTER ASM TO THE CONTROL PANEL USING OEM SCREW IN THE OEM CABLE CLAMP. MOUNTING LOCATION, SEE FIGURE 7, BELOW.
- ☐ SINCE THE CABLE CONVERTER ASSEMBLY CAN SLIDE BACK AND FORTH IN CLAMP BEFORE SCREW IS TIGHTENED, POSITION CABLE CONVERTER ASSEMBLY SUCH THAT THE FLAT PART OF THE ROD IS AS CLOSE TO FLUSH AS POSSIBLE WITH THE END OF HOUSING AT THE LEVER'S INNER MOST POSITION. SEE FIGURE 7.





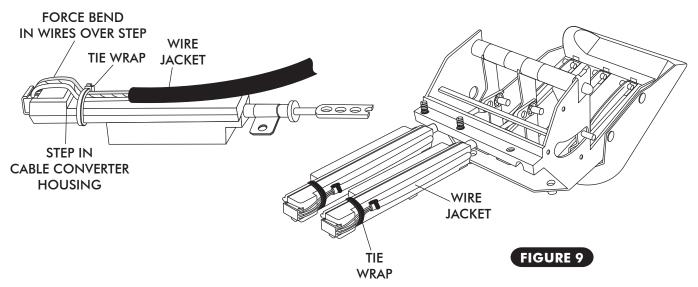
CONTROL HARNESS -

□ LOCATE THE CONTROL PANEL WIRE HARNESS AND PLUG THE CORRESPONDING WIRES INTO THE CORRECT CABLE CONVERTER ASSEMBLY AS SHOWN IN FIGURE 8, BELOW.



CONTROL HARNESS CONT. –

ONCE WIRES ARE CORRECTLY PLUGGED INTO CABLE CONVERTER ASSEMBLY, SECURE WIRES TO THE CABLE CONVERTER ASSEMBLY USING TIE WRAPS (SUPPLIED). SEE FIGURE 9, BELOW. THE TIE WRAP MUST BE LOCATED BETWEEN THE END OF THE WIRE JACKET AND THE STEP IN THE CABLE CONVERTER HOUSING FORCING A BEND IN EACH WIRE AS THEY PASS OVER THE STEP IN THE SLDE POT HOUSING. HEAD OF TIE WRAP MUST FALL ON EDGE OF HOUSING AS SHOWN TO REAMIN TIGHT. ENSURE THAT THE TIE WRAPS ARE SNUG ENOUGH THAT THE WIRES CANNOT MOVE. SEE FIGURE 9.

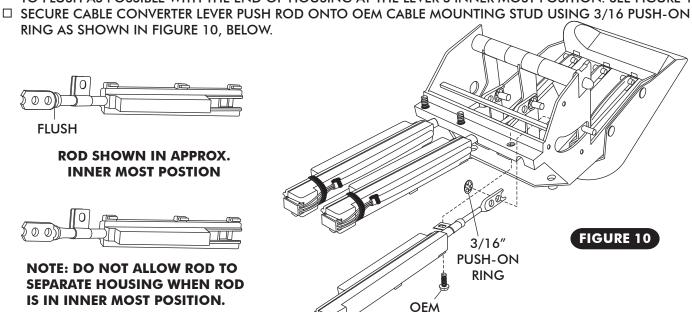




CABLE CONVERTER ASSEMBLY INSTALLATION -

OFF/HI CABLE CONVERTER ASSEMBLY

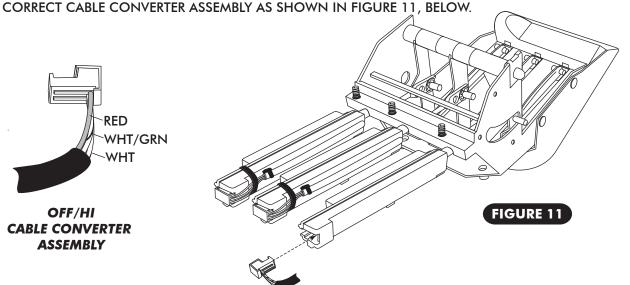
- ☐ INSTALL CABLE CONVERTER ASM ON THE OFF/ HI LEVER. SEE FIGURE 10, BELOW
- ☐ INSTALL CABLE CONVERTER LEVER PUSH ROD ONTO OEM CABLE MOUNTING STUD ON LEVER. SEE FIGURE 10, BELOW.
- □ SECURE THE CABLE CONVERTER ASM TO THE CONTROL PANEL USING THE OEM SCREW IN THE OEM CABLE CLAMP MOUNTING LOCATION. SEE FIGURE 10, BELOW.
- ☐ SINCE THE CABLE CONVERTER ASSEMBLY CAN SLIDE BACK AND FORTH IN CLAMP BEFORE SCREW IS TIGHTENED, POSITION CABLE CONVERTER ASSEMBLY SUCH THAT THE FLAT PART OF THE ROD IS AS CLOSE TO FLUSH AS POSSIBLE WITH THE END OF HOUSING AT THE LEVER'S INNER MOST POSITION. SEE FIGURE 10.



CONTROL HARNESS —

☐ LOCATE THE CONTROL PANEL WIRE HARNESS AND PLUG THE CORRESPONDING WIRES INTO THE

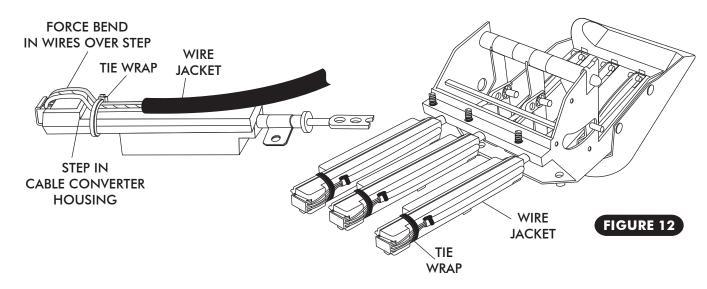
SCREW





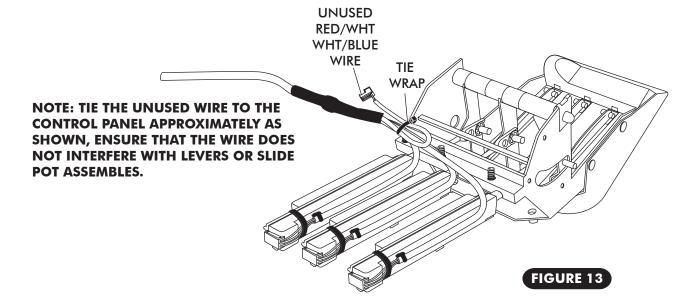
CONTROL HARNESS CONT. -

ONCE WIRES ARE CORRECTLY PLUGGED INTO CABLE CONVERTER ASSEMBLY, SECURE WIRES TO THE CABLE CONVERTER ASSEMBLY USING TIE WRAPS (SUPPLIED). SEE FIGURE 12 BELOW. THE TIE WRAP MUST BE LOCATED BETWEEN THE END OF THE WIRE JACKET AND THE STEP IN THE CABLE CONVERTER HOUSING FORCING A BEND IN EACH WIRE AS THEY PASS OVER THE STEP IN THE SLDE POT HOUSING. HEAD OF TIE WRAP MUST FALL ON EDGE OF HOUSING AS SHOWN TO REMAIN TIGHT. ENSURE THAT THE TIE WRAPS ARE SNUG ENOUGH THAT THE WIRES CANNOT MOVE. SEE FIGURE 12.



CONTROL HARNESS FINAL STEP-

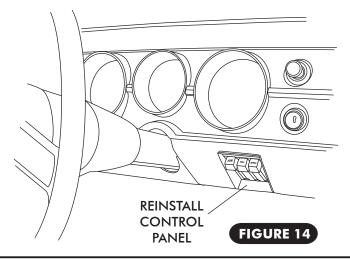
☐ USING THE SUPPLED TIE WRAPS, TIE THE WIRES TO THE CONTROL PANEL AS SHOWN IN FIGURE 13, BELOW. CONFIRM THAT WIRES ARE SECURED AND DO NOT INTERFERE WITH LEVER OPERATION OR CABLE CONVERTER ASSEMBLY.





FINAL STEPS

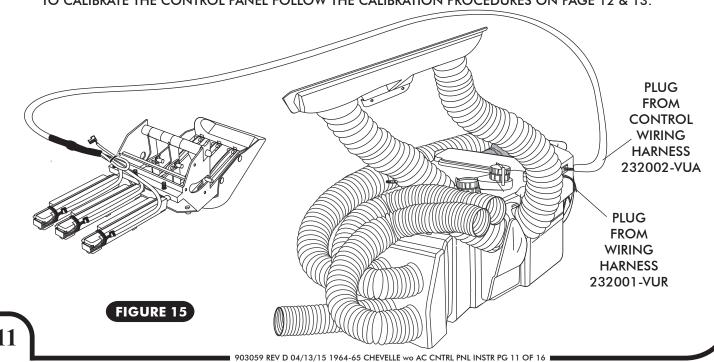
☐ REINSTALL CONTROL PANEL IN DASH USING THE (4) OEM SCREWS.



FINAL STEPS CONT.-

- ☐ PLUG THE WIRING HARNESS INTO THE ECU MODULE ON SUB CASE. SEE FIGURE 15, BELOW.
- ☐ WIRE ACCORDING TO WIRING DIAGRAM ON PAGE 14.
- ☐ CONTROL PANEL CALIBRATION PROCEDURE AND OPERATION INSTRUCTIONS:
 - 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 AND LOWEST POINTS.
 - LOCATE THE GRAY WIRE WITH AN UNUSED CONNECTOR IN THE WIRING HARNESS NEAR THE TWO CABLE HARNESS RELAYS. THE WIRE IS LABELED PRGM ON THE WIRING DIAGRAM ON PAGE 14.
 - 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 WIRE TO THE VEHICLE'S GROUND (FOR EXAMPLE THE CHASSIS) AND HAVE THE OTHER END READY TO CONNECT TO THE GRAY PRGM WIRE WHEN THE PROCEDURE REQUIRES IT.

TO CALIBRATE THE CONTROL PANEL FOLLOW THE CALIBRATION PROCEDURES ON PAGE 12 & 13.

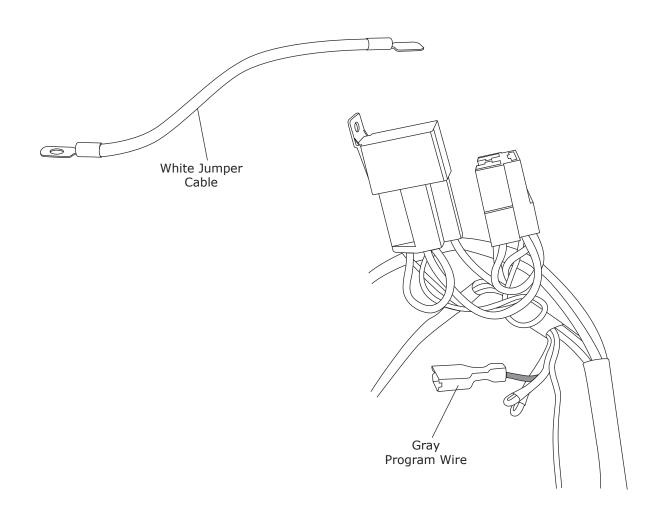




Control Panel Calibration Procedure

On Vintage Air Gen IV systems using factory 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.

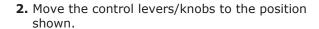
In preparation for calibration, you will need to attach the supplied white ground jumper wire to a suitable chassis ground. This jumper wire must be easily connected to the gray programming wire located in the main Gen IV wiring harness next to the relays. During the calibration procedure, you will connect 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.

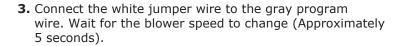


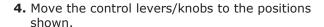


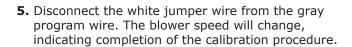
Control Panel Calibration Procedure (Cont.)

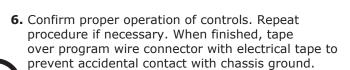
1. Turn on the ignition switch (Do not start the engine).

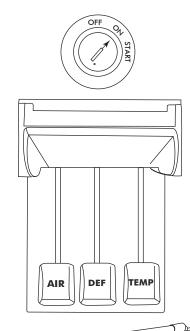


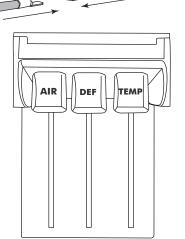


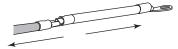






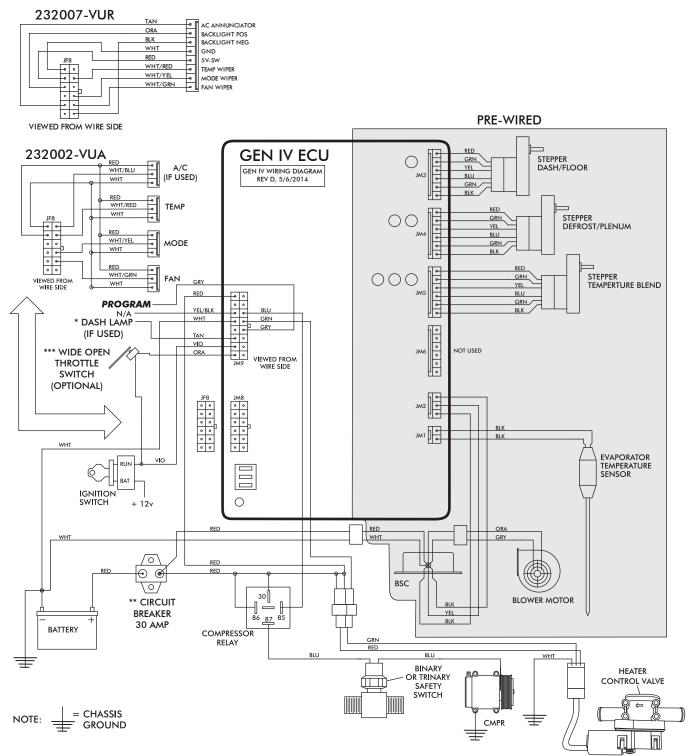








Wiring Diagram



- 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.



OPERATION OF CONTROLS

NOTE: CONTROLS MUST BE CALIBRATED PRIOR TO FIRST OPERATION- REFER TO CONTROL PANEL INSTRUCTIONS

BLOWER SPEED

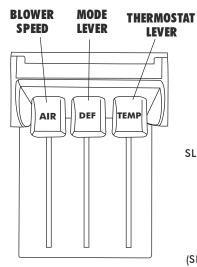
THIS LEVER CONTROLS THE BLOWER SPEED, FROM OFF TO HI

MODE LEVER

THIS LEVER CONTROLS
THE MODE POSITIONS
FROM DASH TO FLOOR
TO DEFROST

THERMOSTAT LEVER

THIS LEVER CONTROLS
THE TEMPERATURE
FROM HOT TO COLD



SYSTEM OFF

BLOWER SPEED

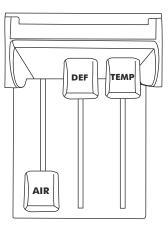
SLIDE THE FAN LEVER
UP OR DOWN
TO SELECT DESIRE
FAN SPEED
(SLIDE LEVER ALL THE WAY
DOWN FOR MAXIMUM
FAN SPEED)

MODE LEVER

SLIDE THE MODE LEVER ALL THE WAY UP FOR DASH MODE

THERMOSTAT LEVER

IN A/C MODE SLIDE THE TEMP LEVER ALL THE WAY UP TO ENGAGE COMPRESSOR FOR MAXIMUM COOLING. (SLIDE LEVER UP OR DOWN TO ADJUST DESIRED TEMPERATURE)



A/C MODE

BLOWER SPEED

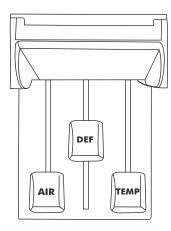
SLIDE THE FAN LEVER UP OR DOWN TO SELECT DESIRE FAN SPEED (SLIDE LEVER ALL THE WAY DOWN FOR MAXIMUM FAN SPEED)

MODE LEVER

SLIDE THE MODE LEVER
TO THE CENTER FOR
FLOOR MODE
(SLIDE LEVER UP OR DOWN
TO BLEND BETWEEN DESIRED
MODE POSITIONS)

THERMOSTAT LEVER

IN HEAT MODE SLIDE THE TEMP LEVER ALL THE WAY DOWN FOR MAXIMUM HEATING. (SLIDE LEVER UP OR DOWN TO ADJUST DESIRED TEMPERATURE)



HEAT MODE

BLOWER SPEED

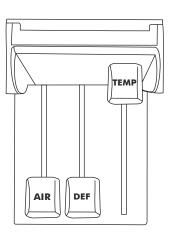
SLIDE THE FAN LEVER UP OR DOWN TO SELECT DESIRE FAN SPEED (SLIDE LEVER ALL THE WAY DOWN FOR MAXIMUM FAN SPEED)

MODE LEVER

SLIDE THE MODE LEVER
ALL THE WAY DOWN
FOR DEFROST MODE
(SLIDE LEVER UP OR DOWN
TO BLEND BETWEEN DESIRED
MODE POSITIONS)

THERMOSTAT LEVER
IN DEF MODE SLIDE THE

TEMP LEVER ALL THE WAY
UP TO ENGAGE COMPRESSOR
FOR MAXIMUM COOLING.
(SLIDE LEVER UP OR DOWN TO
ADJUST DESIRED TEMPERATURE)



DEFROST MODE



CONTROL KIT PACKING LIST

CONTROL KIT

473064

No.	QTY.	PART No.	DESCRIPTION	
1.	3	112002-SUA 232002-VUA	SLIDE POT ASM GEN IV UNIVERSAL CONTROL HARNESS	
3.	3	65976-VUE	3/16" PUSH-ON RING	
4. 5.	3 5	491010-VUR 21301-VUP	SLIDE POT CLAMP 4" TIE WRAP	
6.	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.

