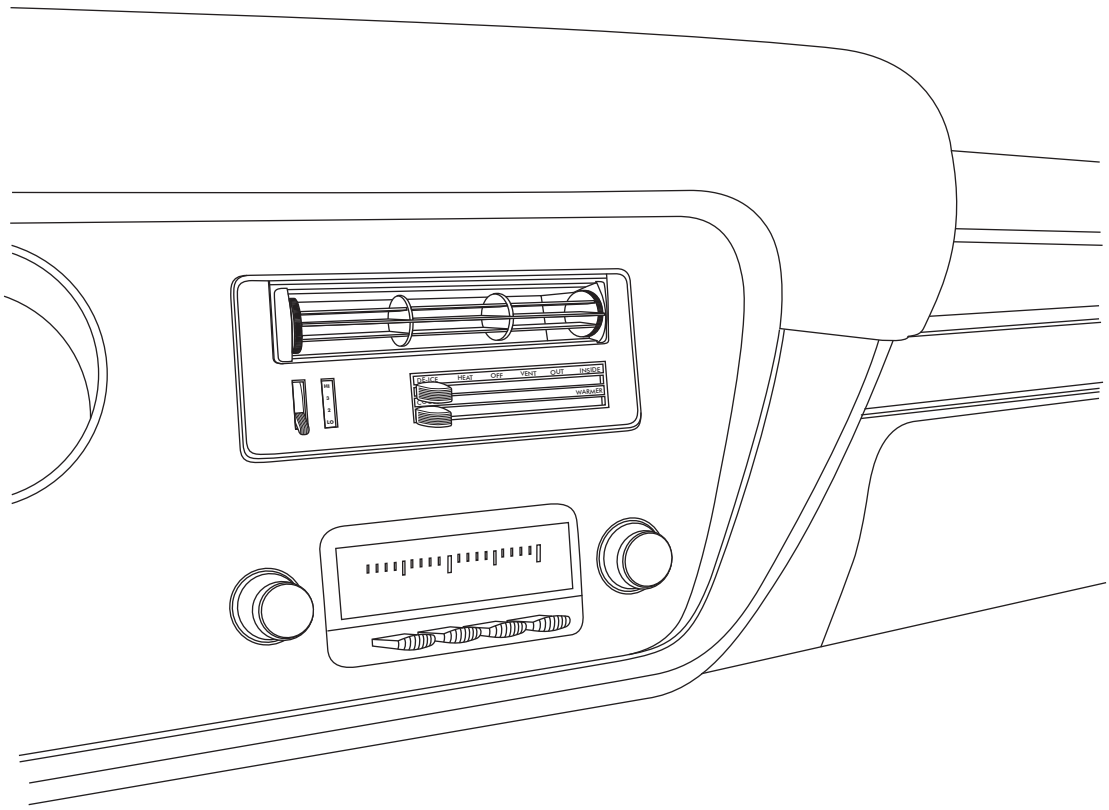
an ISO 9001: 2008 Registered Company

1964-67 GTO

WITH AC CONTROL PANEL CONVERSION KIT 473167



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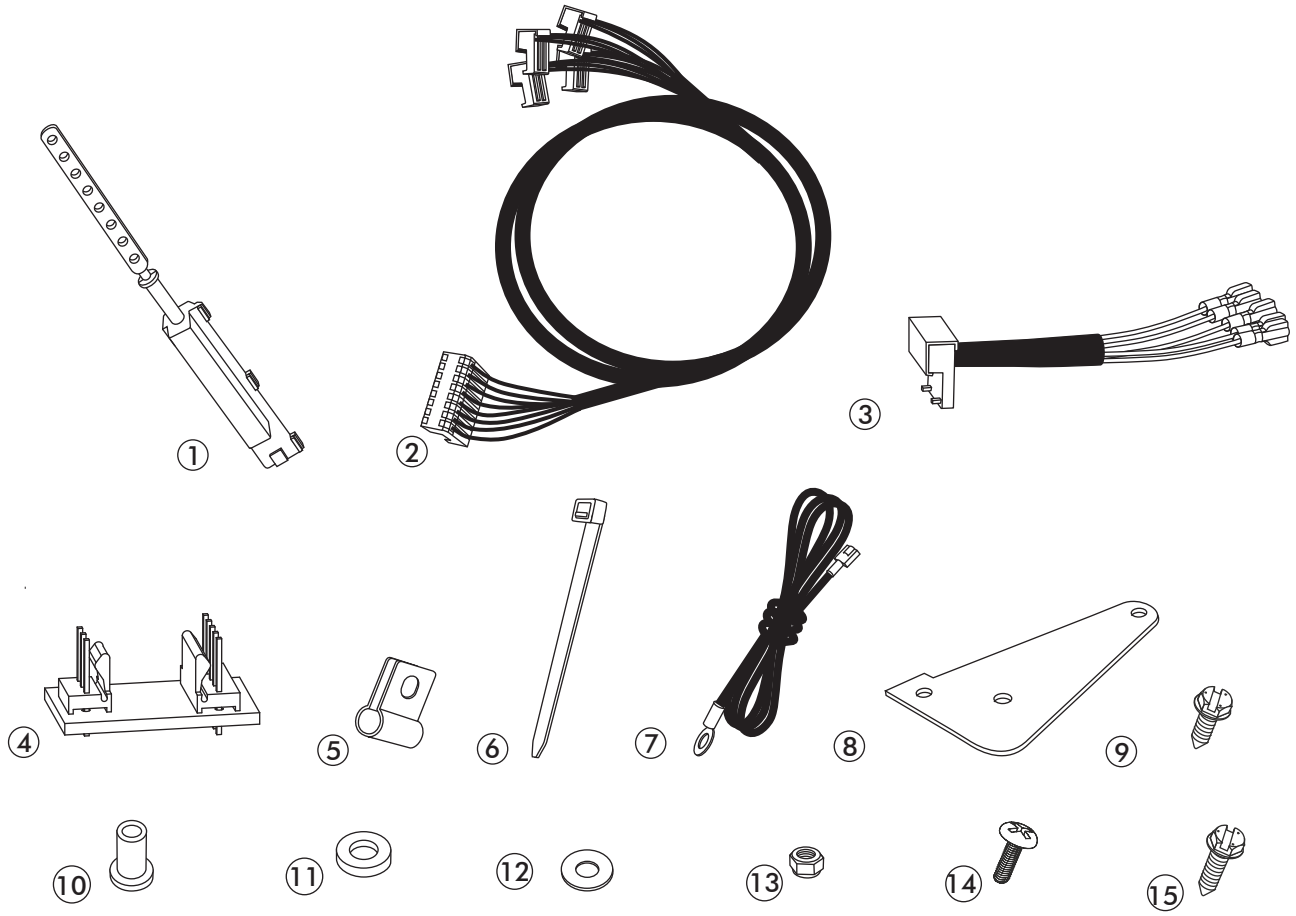
CONTROL KIT PACKING LIST

CONTROL KIT
473167

No	QTY	PART No.	DESCRIPTION
1.	2	112002-SUA	CABLE CONVERTER ASSEMBLY
2.	1	232002-VUA	GEN IV UNIVERSAL CONTROL HARNESS
3.	1	246019	CABLE ASSY SWITCH INTERFACE, UNIVERSAL
4.	1	246116-0	SWITCH INTERFACE, UNIVERSAL
5.	2	491010-VUR	CABLE CONVERTER CLAMP
6.	5	21301-VUP	4" TIE WRAP
7.	1	231520	GROUND WIRE
8.	1	643050	BRKT 64-67 GTO w AC DASH/ FLR/ DEF CABLE CONVERTER
9.	4	18247-VUB	#10 x 1/2 HEX SHEET METAL SCREW
10.	1	49700-VUI	1/8 ID x 11/64 OD NYLON INSERT (64 GTO ONLY)
11.	5	49705-VUI	1/8" NYLON SPACER (64 GTO ONLY)
12.	1	18122-VUB	#6 SAE FLAT WASHER (64 GTO ONLY)
13.	1	18412-VUB	4-40 NYLOK NUT (64 GTO ONLY)
14.	1	18400-VUB	4-40 x 5/8" PH MACH SCREW (64 GTO ONLY)
15.	2	18257-VUB	#10 x 3/4 HEX SHEET METAL SCREW (64 GTO ONLY)

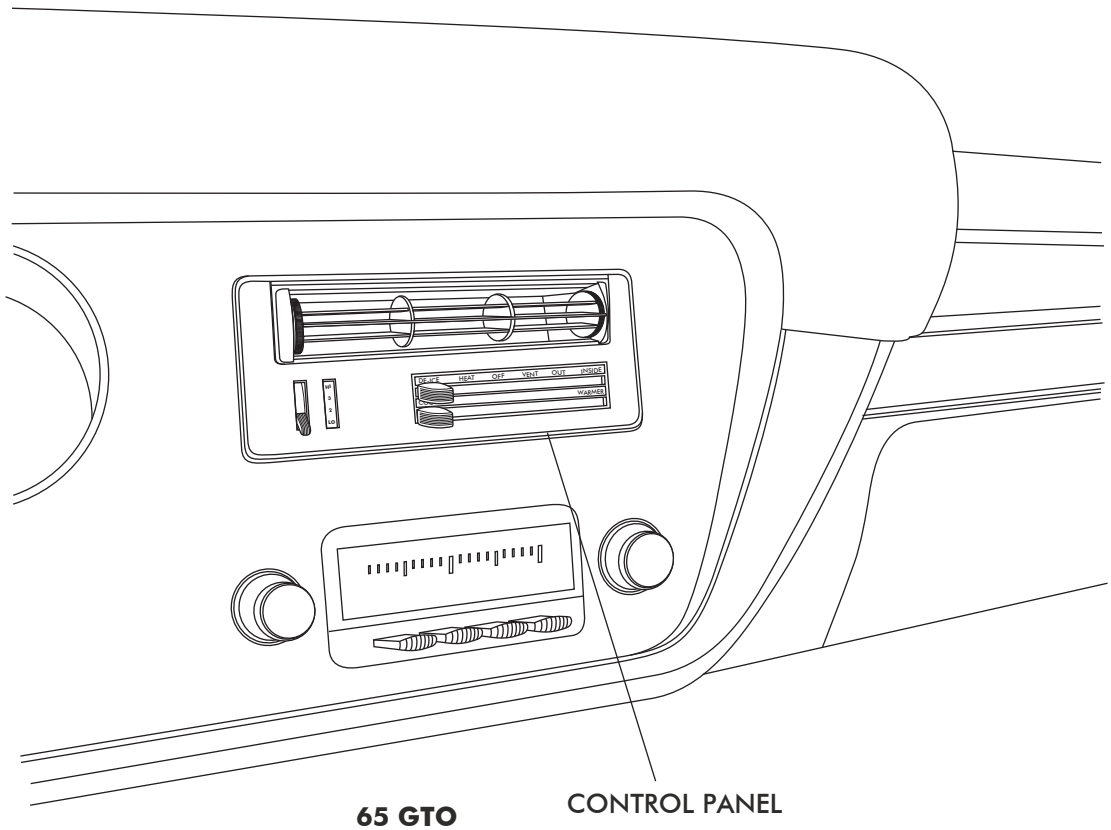
***** BEFORE BEGINNING INSTALLATION, OPEN ALL PACKAGES AND CHECK CONTENTS OF SHIPMENT. PLEASE REPORT ANY SHORTAGES DIRECTLY TO VINTAGE AIR WITHIN 15 DAYS. AFTER 15 DAYS, VINTAGE AIR WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED ITEMS.***



CONTROL PANEL CONVERSION INSTRUCTIONS FOR 1964-67 GTO w AC

REMOVING OEM CONTROL PANEL

- ☐ REMOVE THE (4) OEM MOUNTING NUTS FROM INSTRUMENT PANEL OF DASH SEE FIGURE 1 BELOW
- ☐ DISCONNECT CABLES AND WIRES FROM BACK OF CONTROL PANEL.
- ☐ REMOVE THE CONTROL PANEL FROM DASH.



65 GTO SHOWN

FIGURE 1

REMOVING OEM CONTROL PANEL SWITCHES

☐ REMOVE OEM AC VACUUM SELECTOR SWITCH, CLUTCH SWITCH AND MASTER SWITCH. SEE FIGURE 2 BELOW.

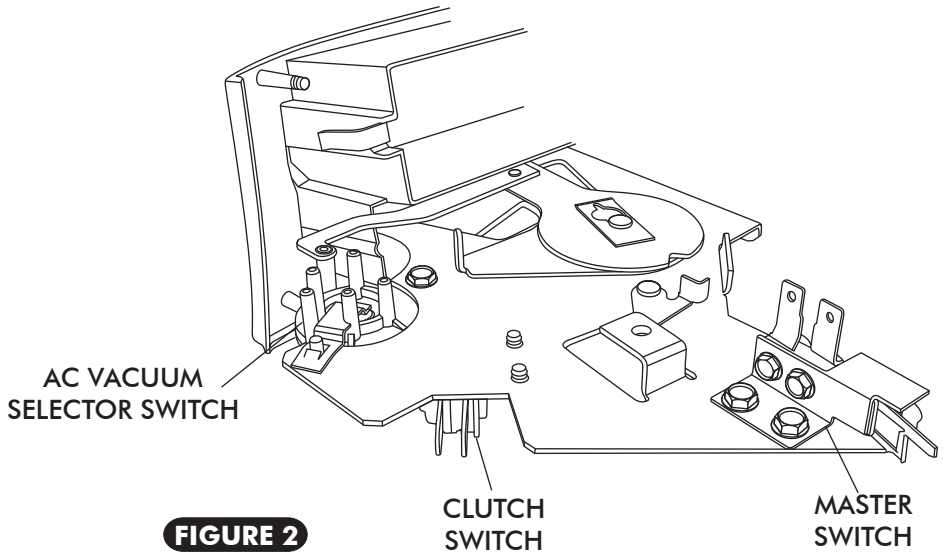


FIGURE 2

CABLE CONVERTER BRACKET INSTALLATION

☐ INSTALL DASH/ FLR/ DEF CABLE CONVERTER BRACKET TO CONTROL PANEL USING (2) #10 x 1/2 SHEET METAL SCREWS AS SHOWN IN FIGURE 3 BELOW.

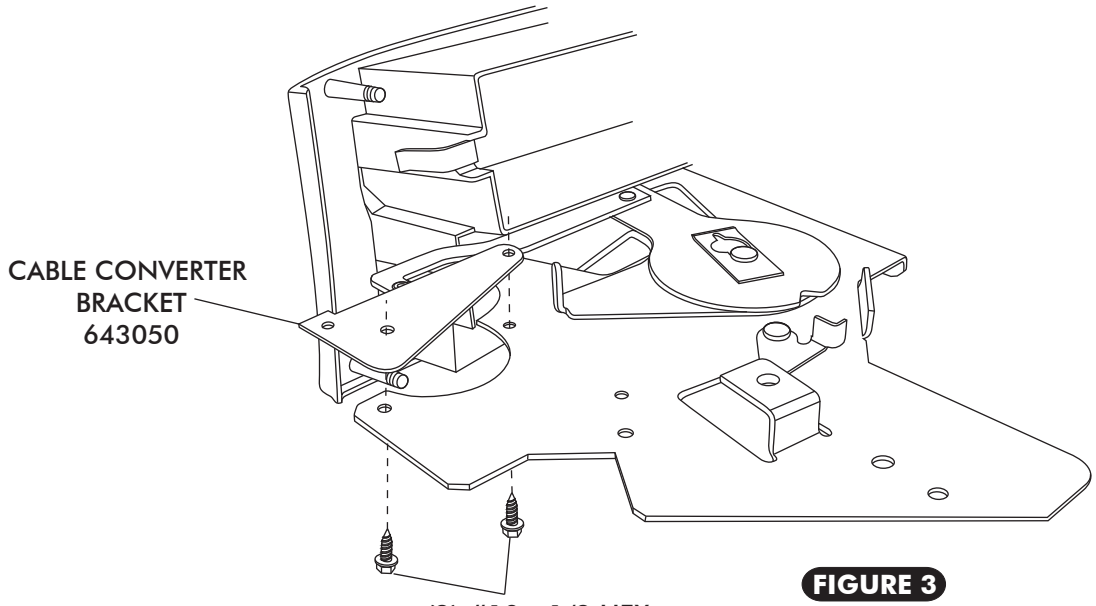
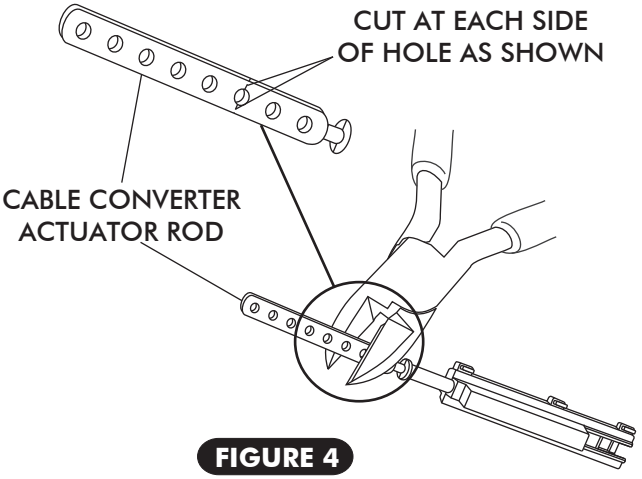
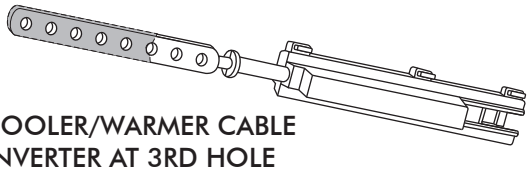


FIGURE 3

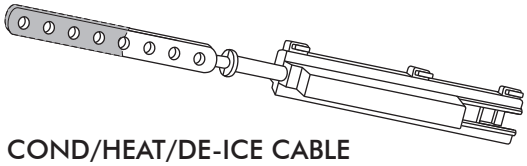
CABLE CONVERTER ASSEMBLY MODIFICATION (64 GTO)

☐ LOCATE THE (2) CABLE CONVERTER ASSEMBLIES, AND USING A PAIR OF WIRE CUTTERS, CUT CABLE CONVERTER ACTUATOR RODS AS SHOWN BELOW IN FIGURE 4.





CUT COOLER/WARMER CABLE
CONVERTER AT 3RD HOLE
(REMOVE SHADED PORTION)

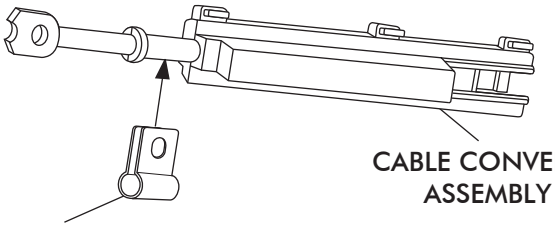


CUT AIR COND/HEAT/DE-ICE CABLE
CONVERTER AT 4TH HOLE
(REMOVE SHADED PORTION)

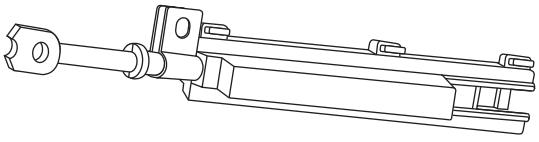
FIGURE 4

CABLE CONVERTER ASSEMBLY MOUNTING CLAMP INSTALLATION

☐ INSTALL CABLE CONVERTER ASSEMBLY MOUNTING CLAMPS. SEE FIGURE 5, BELOW

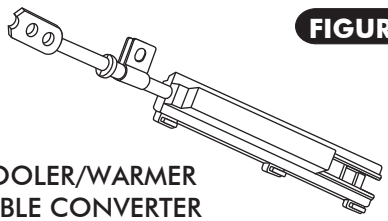


CABLE CONVERTER
ASSEMBLY

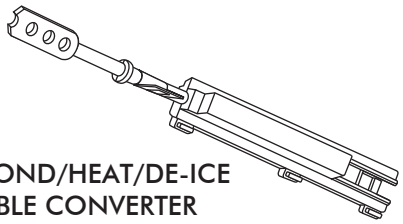


CABLE CONVERTER
ASSEMBLY MOUNTING
CLAMP

FIGURE 5



COOLER/WARMER
CABLE CONVERTER
ASSEMBLY



AIR COND/HEAT/DE-ICE
CABLE CONVERTER
ASSEMBLY

**ORIENT CABLE CONVERTER ASSEMBLIES AS SHOWN AND INSTALL MOUNTING CLAMPS AS SHOWN.
(NOTE: ORIENT CLAMPS IN RELATION TO THE TWO HOUSING SNAPS ON CABLE CONVERTER ASSEMBLY)**

CABLE CONVERTER ASSEMBLY MODIFICATIONS (65-67 GTO)

☐ LOCATE THE (2) CABLE CONVERTER ASSEMBLIES, AND USING A PAIR OF WIRE CUTTERS, CUT CABLE CONVERTER ACTUATOR RODS AS SHOWN BELOW IN FIGURE 6.

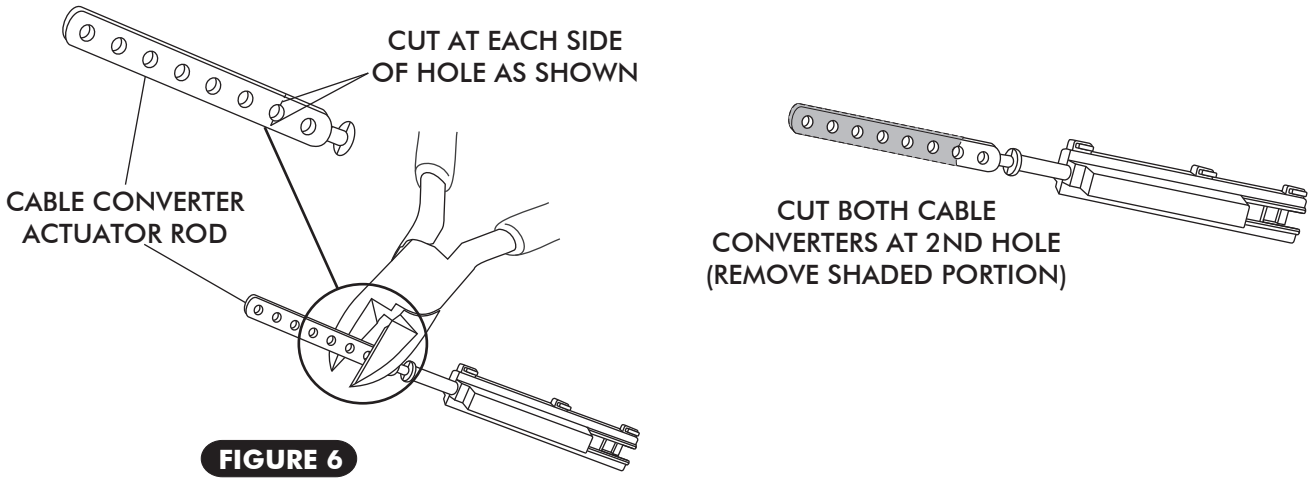


FIGURE 6

CABLE CONVERTER ASSEMBLY MOUNTING CLAMP INSTALLATION

☐ INSTALL CABLE CONVERTER ASSEMBLY MOUNTING CLAMPS. SEE FIGURE 7 BELOW

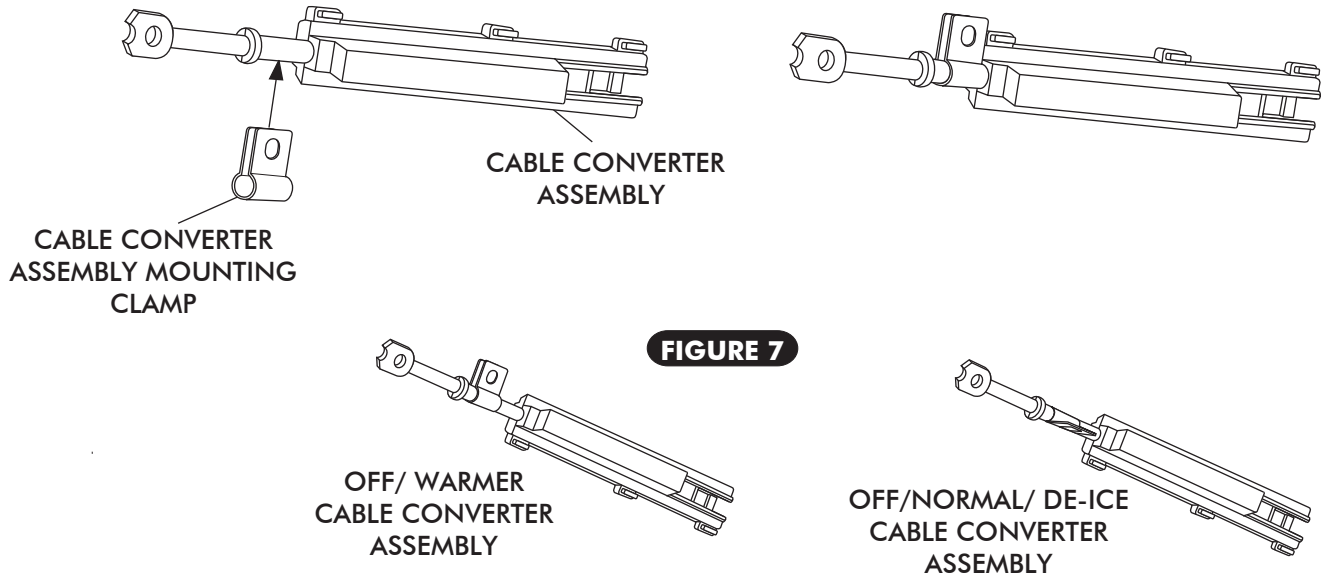


FIGURE 7

ORIENT CABLE CONVERTER ASSEMBLIES AS SHOWN AND INSTALL MOUNTING CLAMPS AS SHOWN. (NOTE: ORIENT CLAMPS IN RELATION TO THE TWO HOUSING SNAPS ON CABLE CONVERTER ASSEMBLY)

CABLE CONVERTER ASSEMBLY INSTALLATION (64 GTO ONLY)

DASH/ FLR/ DEF CABLE CONVERTER ASSEMBLY

- ☐ INSTALL CABLE CONVERTER ASSEMBLY ON THE AIR COND/ HEAT/ DE-ICE LEVER. SEE FIGURE 8 BELOW.
- ☐ INSTALL CABLE CONVERTER LEVER PUSH ROD ONTO OEM CABLE MOUNTING STUD ON LEVER USING 4-40 x 5/8 PH MACH SCREW, 1/8 ID x 11/64 OD NYLON INSERT, 1/8 NYLON SPACER, FLAT WASHER AND 4-40 NYLOK NUT AS SHOWN BELOW.
- ☐ SECURE THE CABLE CONVERTER ASSEMBLY TO THE CONTROL PANEL USING #10 x 3/4 HEX SHEET METAL SCREW AND (2) 1/8 NYLON SPACERS ON THE OEM CABLE CLAMP MOUNTING LOCATION. SEE 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 10a BELOW.

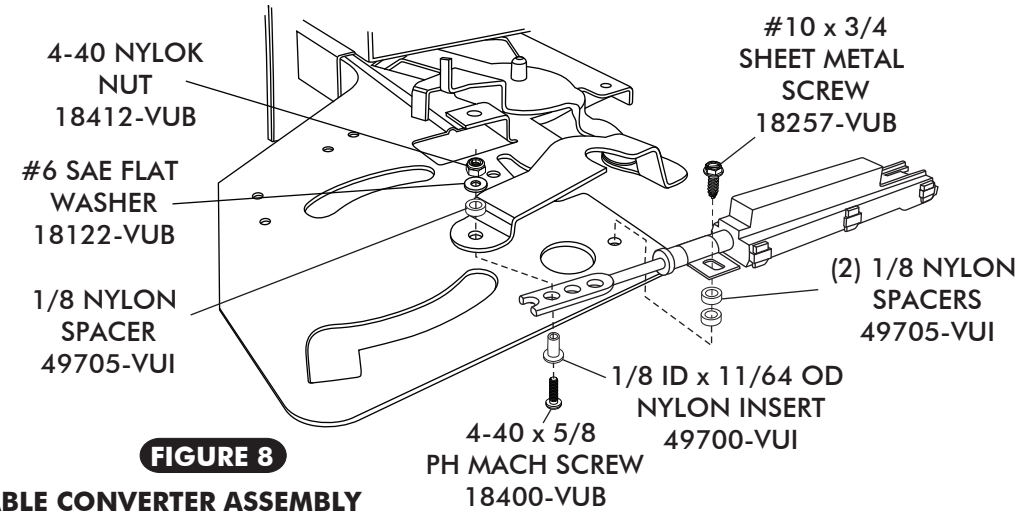


FIGURE 8

COLD/ HOT CABLE CONVERTER ASSEMBLY

- ☐ INSTALL CABLE CONVERTER ASSEMBLY ON THE COOLER/ WARMER LEVER. SEE FIGURE 9 BELOW
- ☐ INSTALL CABLE CONVERTER LEVER PUSH ROD ONTO OEM CABLE MOUNTING STUD ON LEVER. SEE BELOW.
- ☐ SECURE THE CABLE CONVERTER ASSEMBLY TO THE CONTROL PANEL USING #10 x 3/4 HEX SHEET METAL SCREW AND (2) 1/8 NYLON SPACERS ON THE OEM CABLE CLAMP MOUNTING LOCATION. SEE 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 10a BELOW.

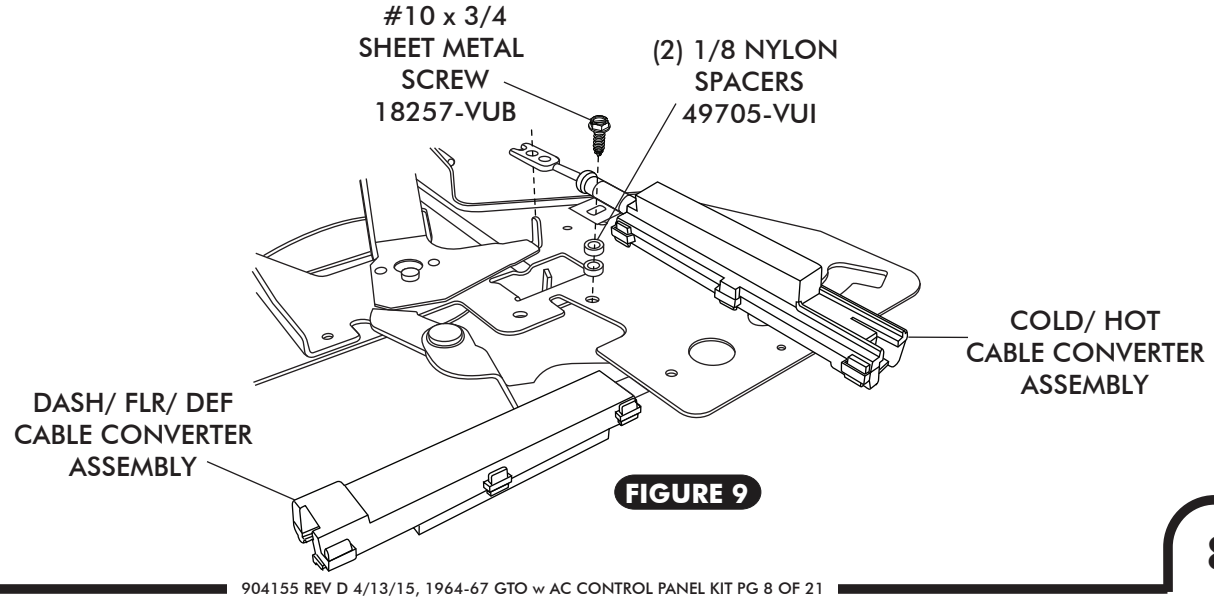


FIGURE 9

CABLE CONVERTER ASSEMBLY INSTALLATION (65-67 GTO ONLY)

DASH/ FLR/ DEF CABLE CONVERTER ASSEMBLY

- ☐ INSTALL CABLE CONVERTER ASSEMBLY ON THE DE-ICE/ HEAT/ OFF/ VENT/ OUT/ INSIDE LEVER. SEE FIGURE 10 BELOW.
- ☐ INSTALL CABLE CONVERTER PUSH ROD ONTO DE-ICE/ HEAT/ OFF/ VENT/ OUT/ INSIDE LEVER. SEE BELOW
- ☐ SECURE THE CABLE CONVERTER ASSEMBLY TO THE CONTROL PANEL BARCKET USING #10 x 1/2" HEX SHEET METAL SCREW AS SHOWN 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 10a BELOW.

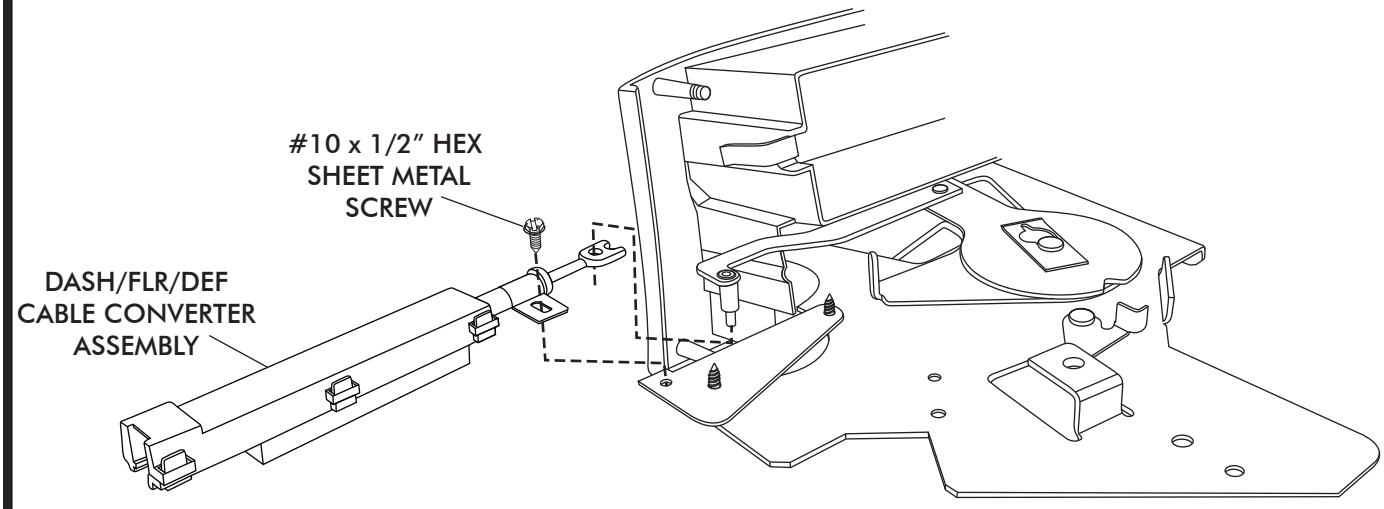
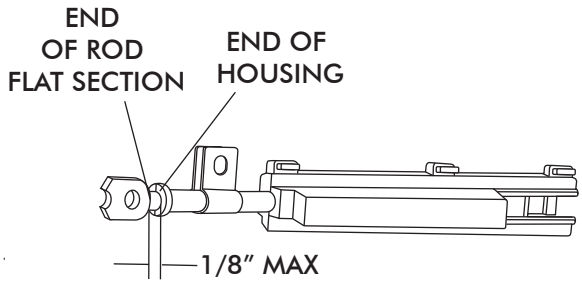
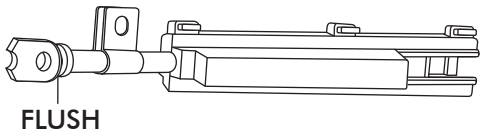


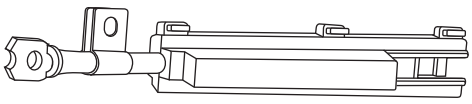
FIGURE 10





ROD SHOWN IN APPROX. INNER MOST POSITION

FIGURE 10a

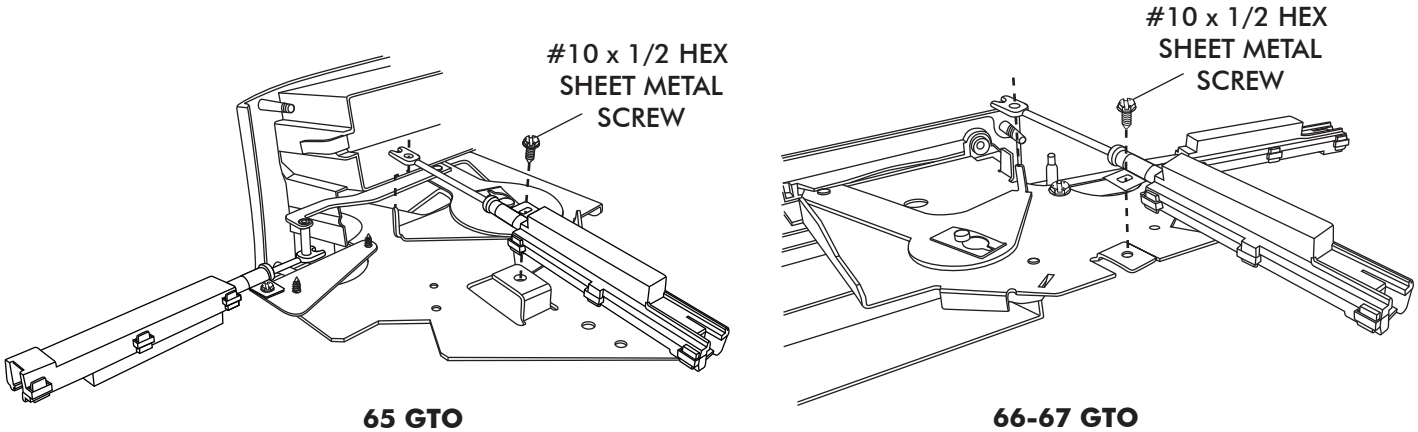


NOTE: DO NOT ALLOW ROD TO SEPARATE HOUSING WHEN ROD IS IN INNER MOST POSITION.

CABLE CONVERTER ASSEMBLY INSTALLATION (65-67 GTO ONLY)

COLD/ HOT CABLE CONVERTER ASSEMBLY

- ☐ INSTALL CABLE CONVERTER ASSEMBLY ON THE COOLER/ WARMER LEVER. SEE FIGURE 11 BELOW.
- ☐ INSTALL CABLE CONVERTER LEVER PUSH ROD ONTO OEM CABLE MOUNTING STUD ON LEVER. SEE BELOW.
- ☐ SECURE THE CABLE CONVERTER ASSEMBLY TO THE CONTROL PANEL USING #10 x 1/2 HEX SHEET METAL SCREW IN THE OEM CABLE CLAMP MOUNTING LOCATION. SEE 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 BELOW.



65 GTO SHOWN

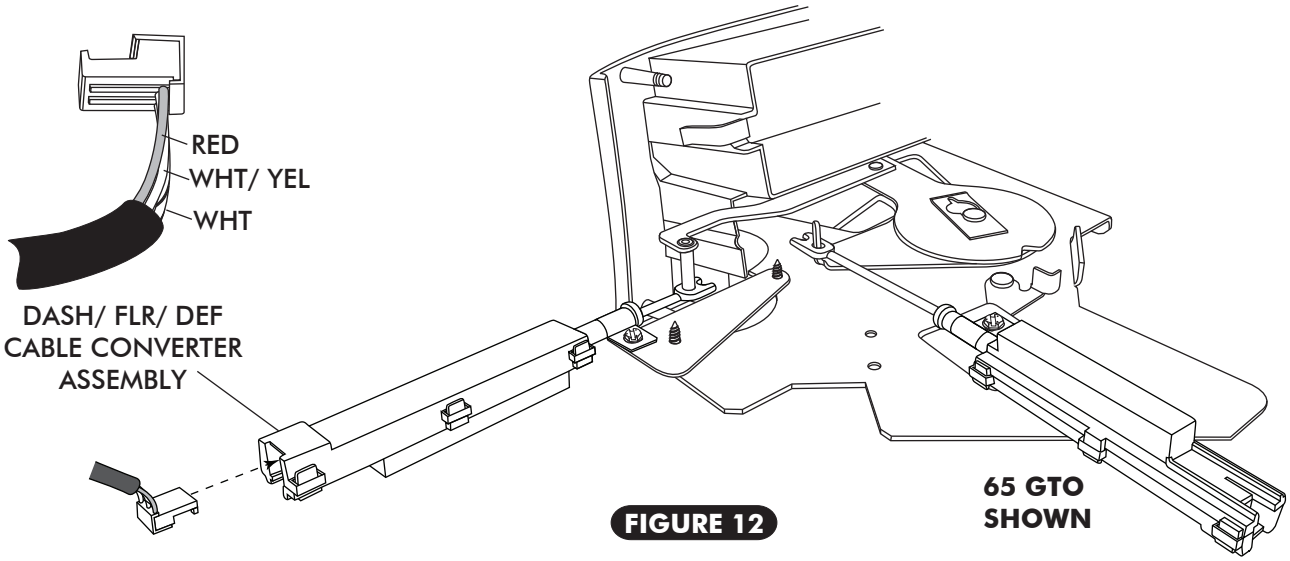
66-67 GTO SHOWN

FIGURE 11

CONTROL HARNESS (64-67 GTO)

DASH/ FLR/ DEF CABLE CONVERTER ASSEMBLY WIRING

- ☐ LOCATE THE CONTROL PANEL WIRE HARNESS AND PLUG THE CORRESPONDING WIRES INTO THE CORRECT CABLE CONVERTER ASSEMBLY AS SHOWN IN FIGURE 12 BELOW.



65 GTO SHOWN

FIGURE 12

CONTROL HARNESS CONT. (64-67 GTO)

☐ ONCE WIRES ARE CORRECTLY PLUGGED INTO CABLE CONVERTER ASSEMBLY, SECURE WIRES TO THE CABLE CONVERTER ASSEMBLY USING TIE WRAPS (SUPPLIED). SEE FIGURE 13 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 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 BELOW

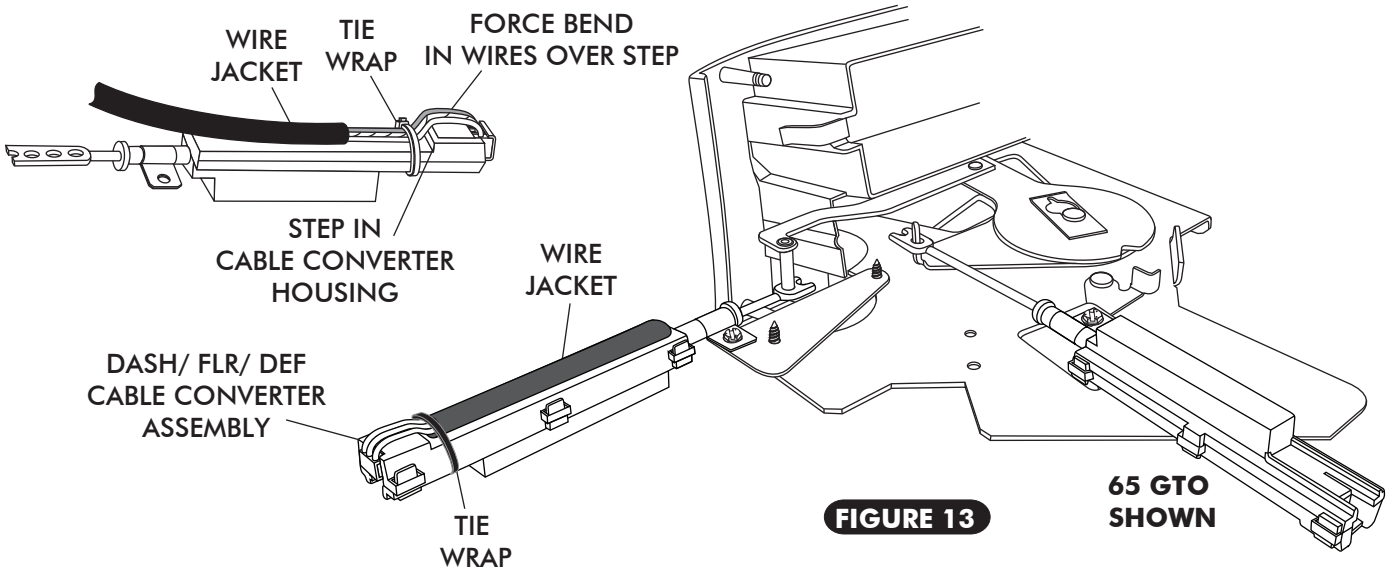


FIGURE 13

CONTROL HARNESS (64-67 GTO)

COLD/ HOT CABLE CONVERTER ASSEMBLY WIRING

☐ LOCATE THE CONTROL PANEL WIRE HARNESS, PLUG THE CORRESPONDING WIRES INTO THE CORRECT CABLE CONVERTER ASSEMBLY AS SHOWN IN FIGURE 14 BELOW.

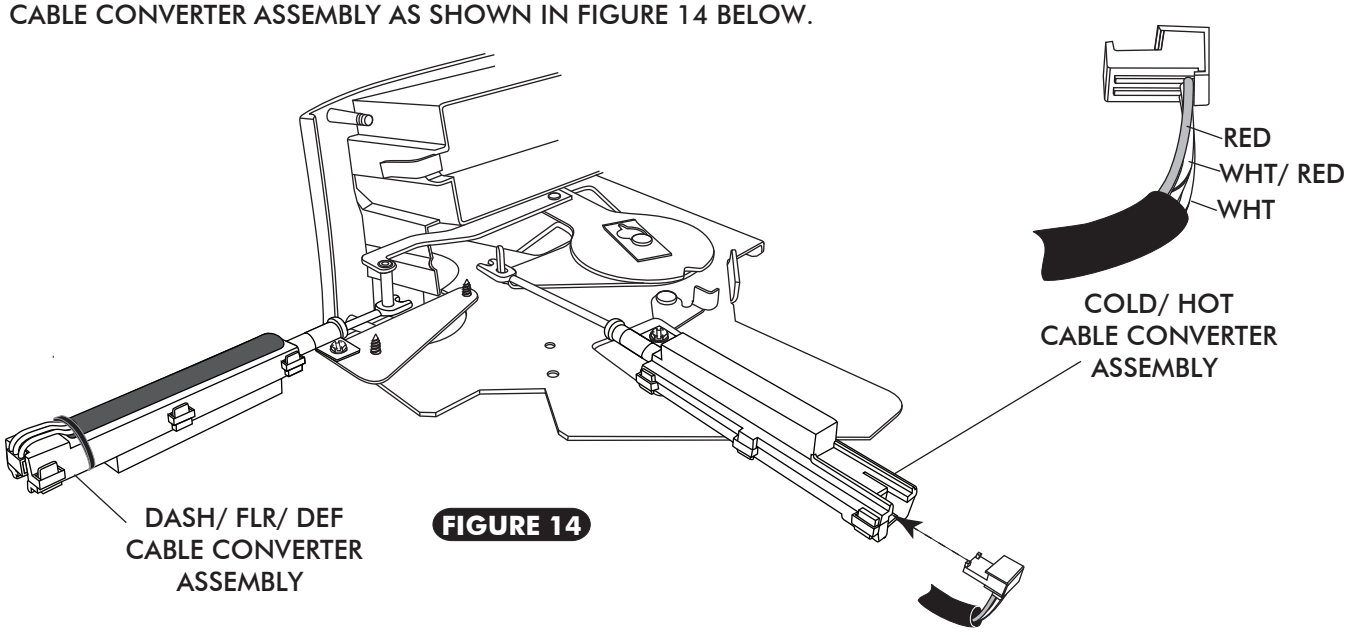


FIGURE 14

CONTROL HARNESS CONT. (64-67 GTO)

☐ ONCE WIRES ARE CORRECTLY PLUGGED INTO CABLE CONVERTER ASSEMBLY, SECURE WIRES TO THE CABLE CONVERTER ASSEMBLY USING TIE WRAPS (SUPPLIED). SEE FIGURE 15 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 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 BELOW

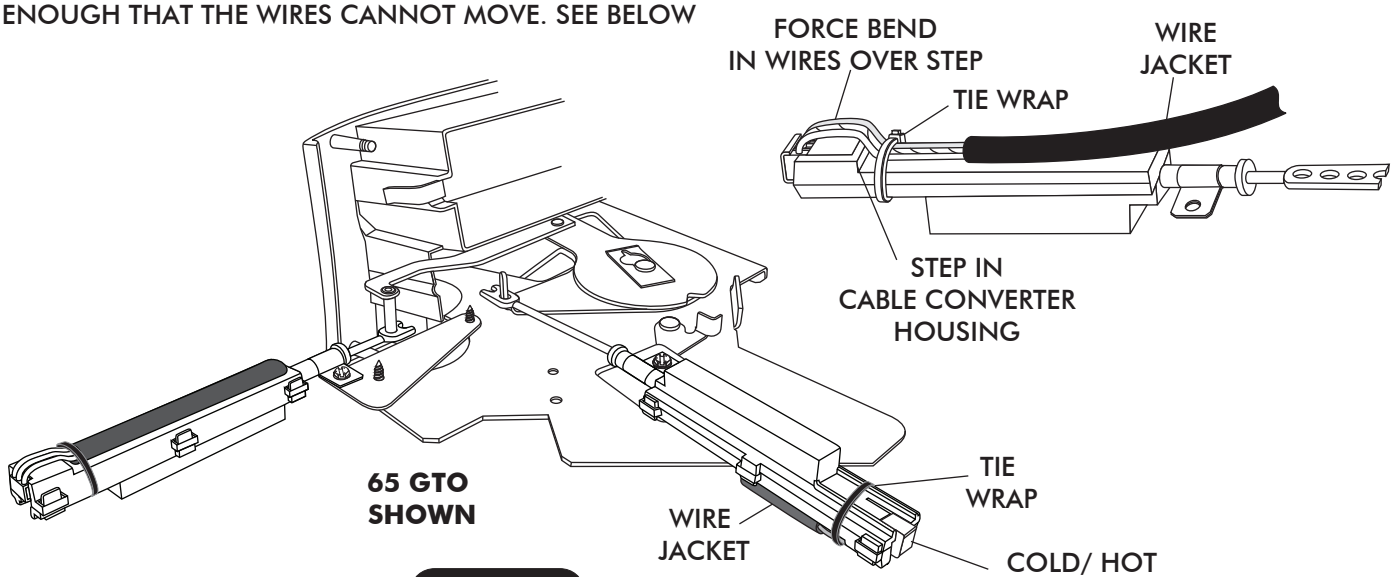


FIGURE 15

☐ USING THE SUPPIED TIE WRAPS, TIE THE WIRES TO THE CONTROL PANEL AS SHOWN IN FIGURE 16 BELOW. CONFIRM THAT WIRES ARE SECURED AND DO NOT INTERFERE WITH LEVER OPERATION OR CABLE CONVERTER ASSEMBLY.

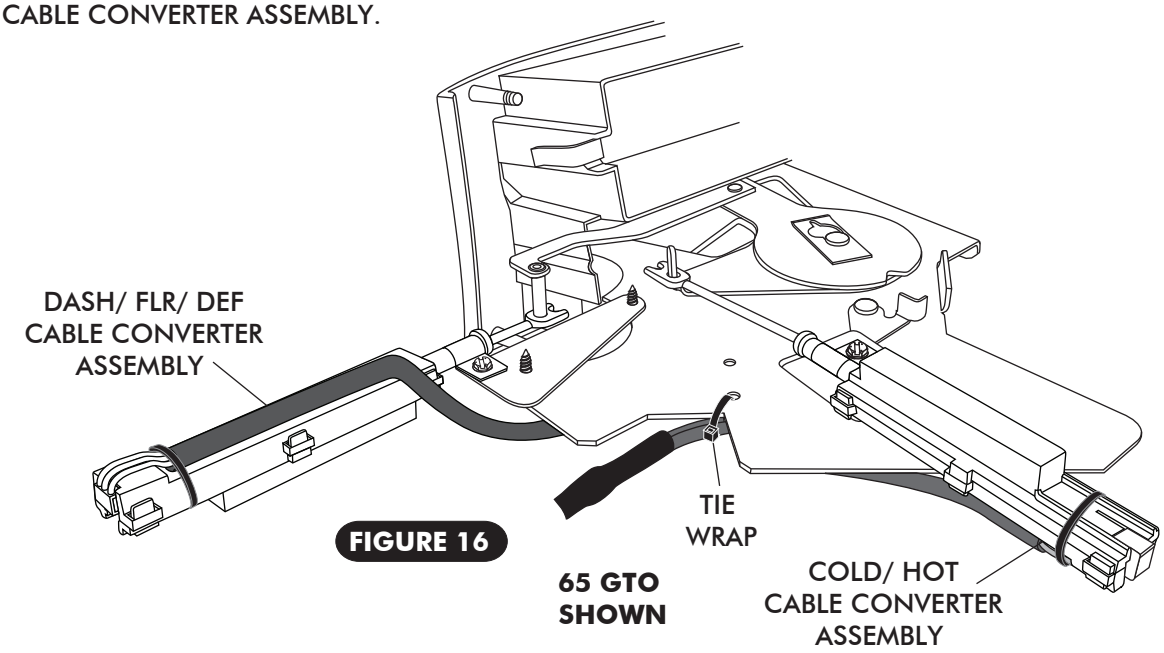


FIGURE 16

BLOWER SWITCH (64 GTO)

- ☐ INSTALL UNIVERSAL BLOWER SWITCH PC BOARD ASM, WIRING, AND SHRINK TUBING AS SHOWN IN FIGURE 17 BELOW.
- ☐ HEAT SHRINK TUBING OVER CONNECTOR AS SHOWN BELOW. (HEAT GUN)

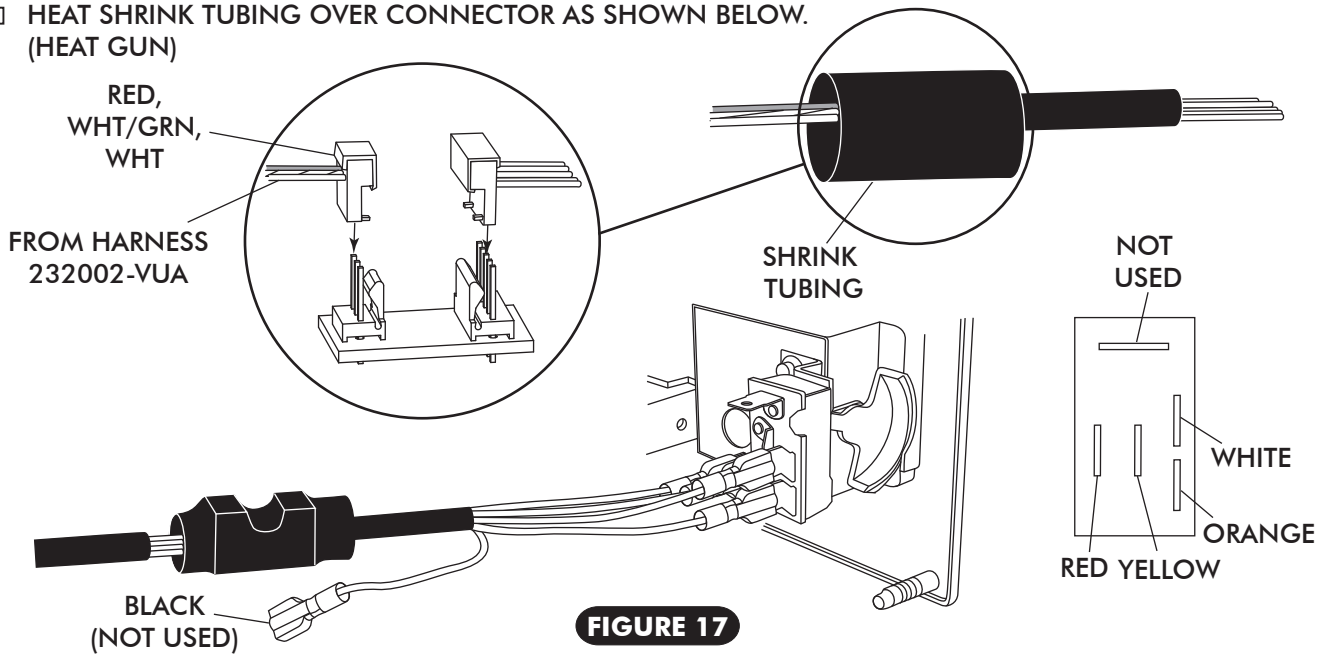


FIGURE 17

BLOWER SWITCH (65-67 GTO)

- ☐ INSTALL UNIVERSAL BLOWER SWITCH PC BOARD ASM, WIRING, AND SHRINK TUBING AS SHOWN IN FIGURE 18 BELOW.
- ☐ HEAT SHRINK TUBING OVER CONNECTOR AS SHOWN BELOW. (HEAT GUN)

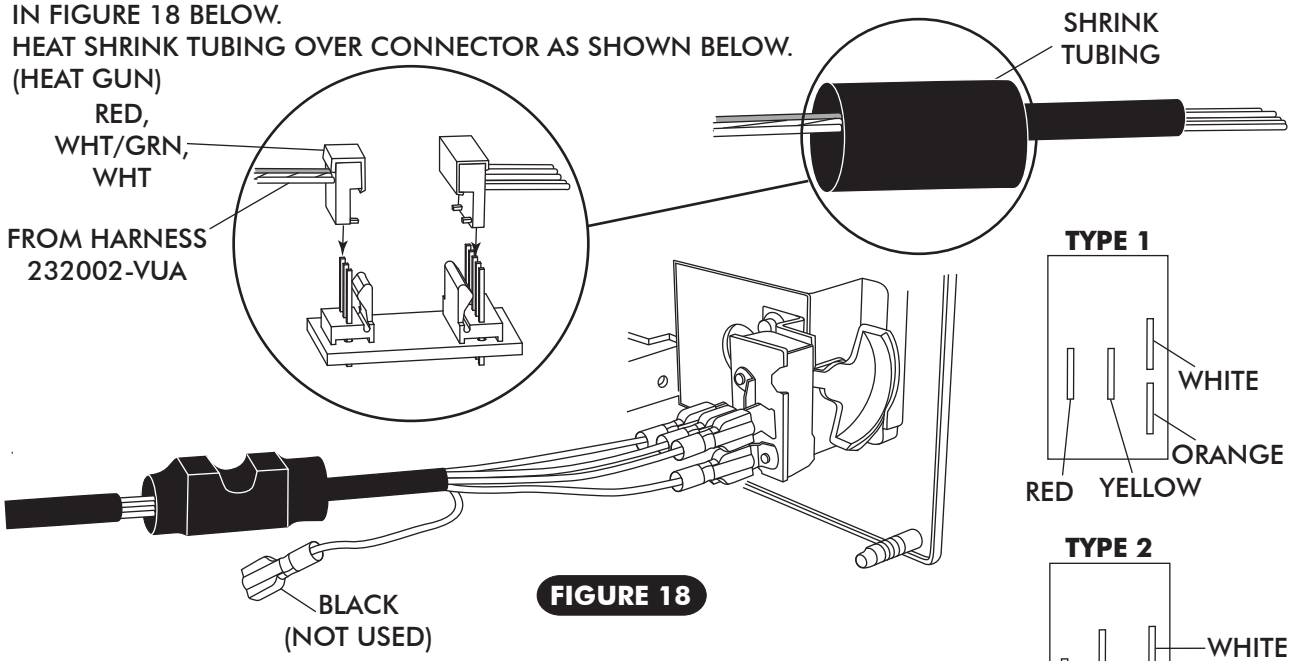


FIGURE 18

FINAL STEPS

- ☐ REINSTALL CONTROL PANEL IN DASH.
- ☐ PLUG THE WIRING HARNESS INTO THE ECU MODULE ON THE SUB CASE. SEE FIGURE 19 BELOW.
- ☐ WIRE ACCORDING TO WIRING DIAGRAM ON PAGE 18.

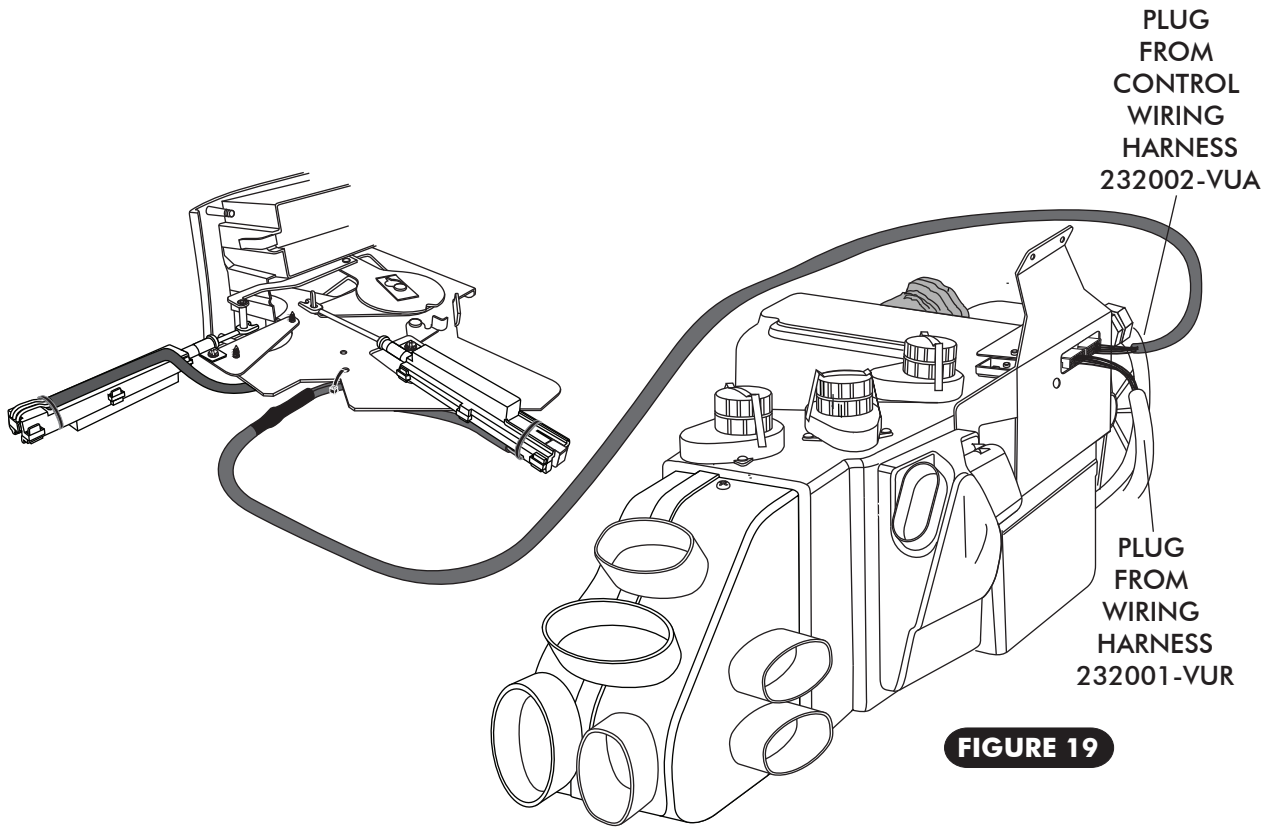
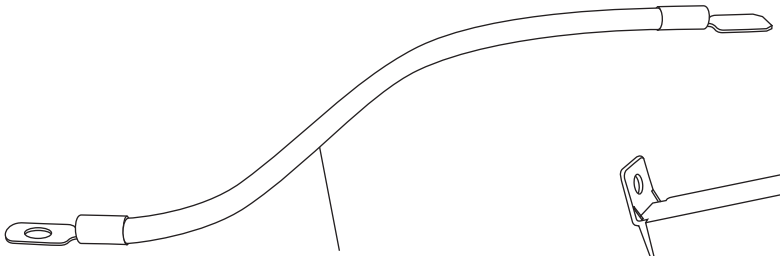


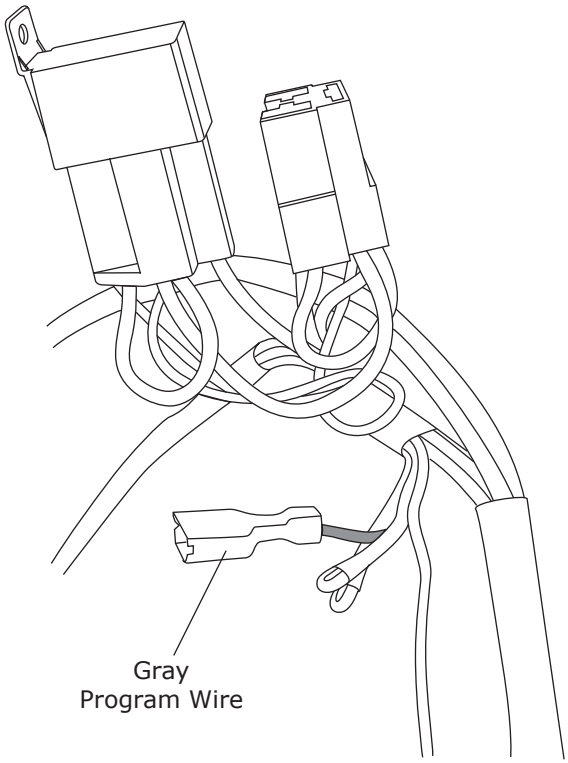
FIGURE 19

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.

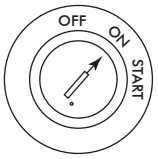
In preparation for calibration, you will need to attach the supplied white ground jumper wire to a suitable chassis ground. This jumper wire must be easily connected to the gray programming wire located in the main Gen IV wiring harness next to the relays. During the calibration procedure, you will connect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



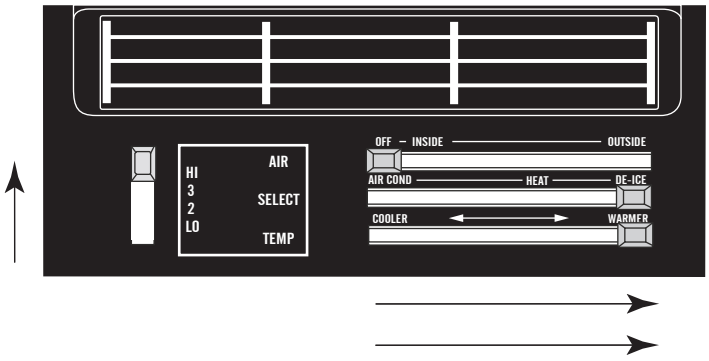


CONTROL PANEL CALIBRATION PROCEDURE CONT. (64 GTO ONLY)

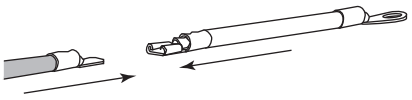
☐ TURN THE IGNITION SWITCH ON (DO NOT START THE ENGINE)



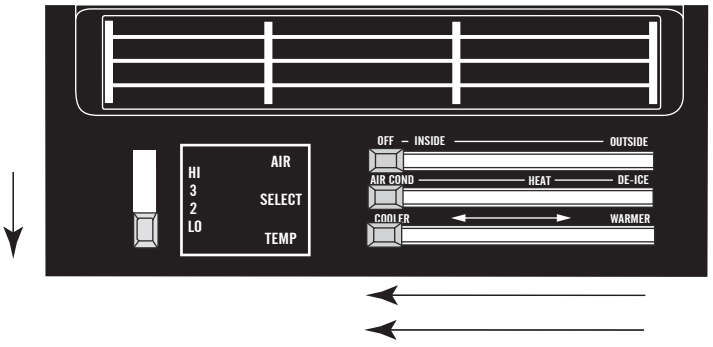
☐ MOVE THE CONTROL LEVERS TO THE POSITION SHOWN.



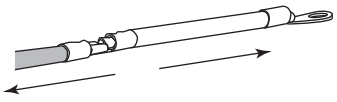
☐ CONNECT THE WHITE JUMPER WIRE TO THE GRAY PROGRAM WIRE. WAIT FOR THE BLOWER SPEED TO CHANGE. (APPROXIMATELY 5 SECONDS)



☐ MOVE THE FAN SWITCH AND CONTROL LEVERS TO THE POSITIONS SHOWN



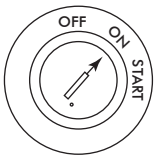
☐ DISCONNECT THE WHITE JUMPER WIRE FROM THE GRAY PROGRAM WIRE. THE BLOWER SPEED WILL CHANGE, INDICATING COMPLETION OF THE CALIBRATION PROCEDURE.



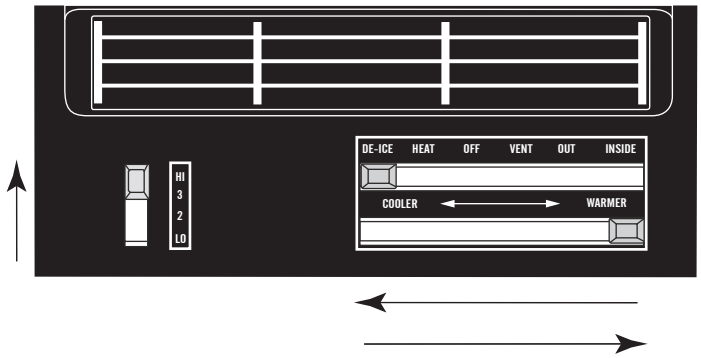
☐ CONFIRM PROPER OPERATION OF CONTROLS. REPEAT PROCEDURE IF NECESSERY. **WHEN FINISHED, TAPE OVER PROGRAM WIRE CONNECTOR WITH ELECTRICAL TAPE TO PREVENT ACCIDENTAL CONTACT WITH CHASSIS GROUND.**

CONTROL PANEL CALIBRATION PROCEDURE CONT. (65-67 GTO ONLY)

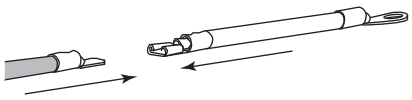
☐ TURN THE IGNITION SWITCH ON (DO NOT START THE ENGINE)



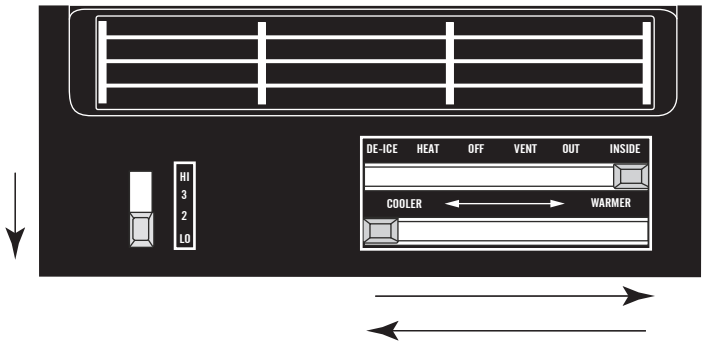
☐ MOVE THE CONTROL LEVERS TO THE POSITION SHOWN.



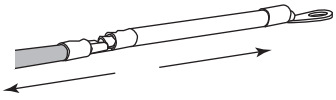
☐ CONNECT THE WHITE JUMPER WIRE TO THE GRAY PROGRAM WIRE. WAIT FOR THE BLOWER SPEED TO CHANGE. (APPROXIMATELY 5 SECONDS)



☐ MOVE THE FAN SWITCH AND CONTROL LEVERS TO THE POSITIONS SHOWN

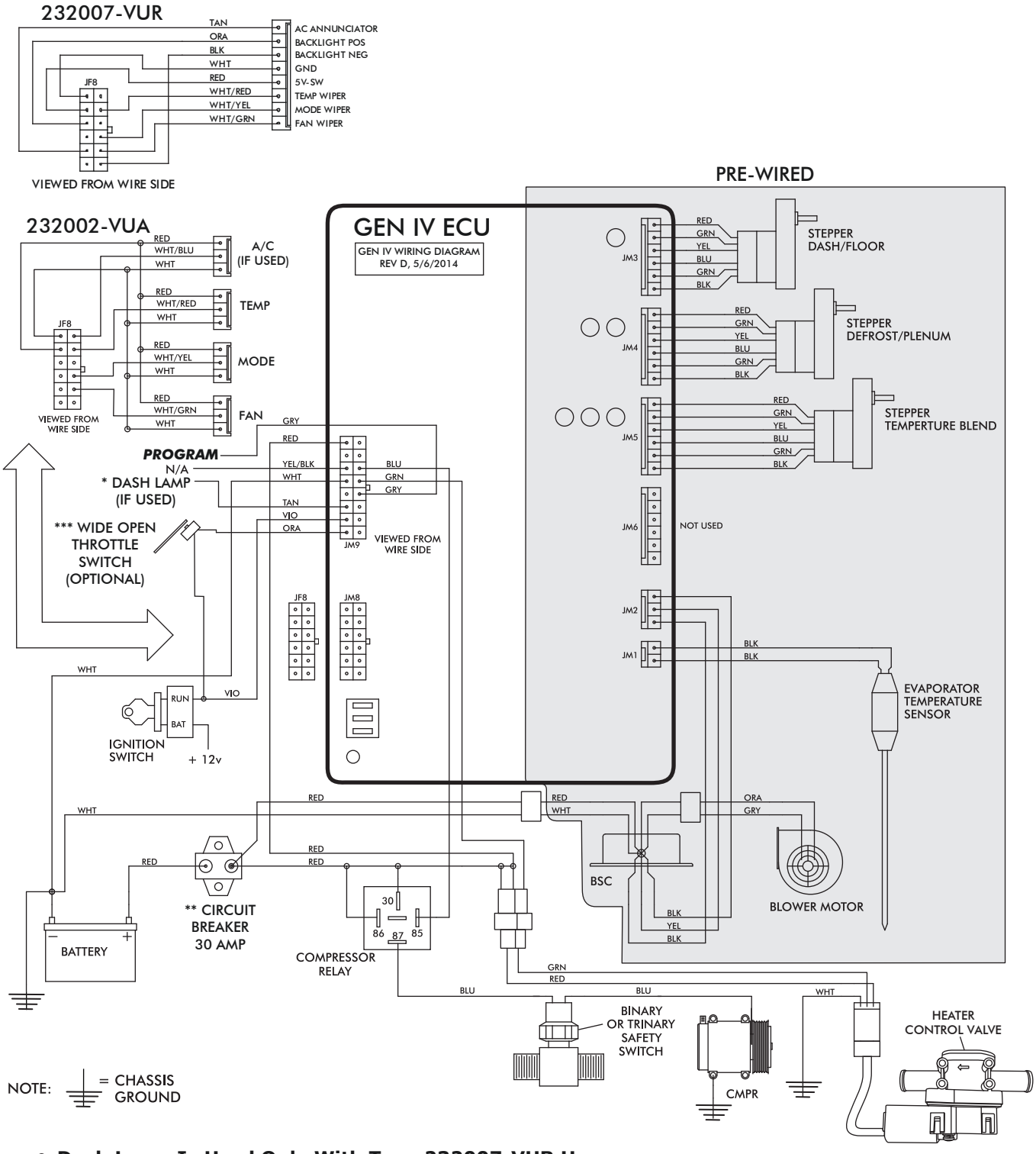


☐ DISCONNECT THE WHITE JUMPER WIRE FROM THE GRAY PROGRAM WIRE. THE BLOWER SPEED WILL CHANGE, INDICATING COMPLETION OF THE CALIBRATION PROCEDURE.



☐ CONFIRM PROPER OPERATION OF CONTROLS. REPEAT PROCEDURE IF NECESSERY. **WHEN FINISHED, TAPE OVER PROGRAM WIRE CONNECTOR WITH ELECTRICAL TAPE TO PREVENT ACCIDENTAL CONTACT WITH CHASSIS GROUND.**

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 (64 GTO ONLY)

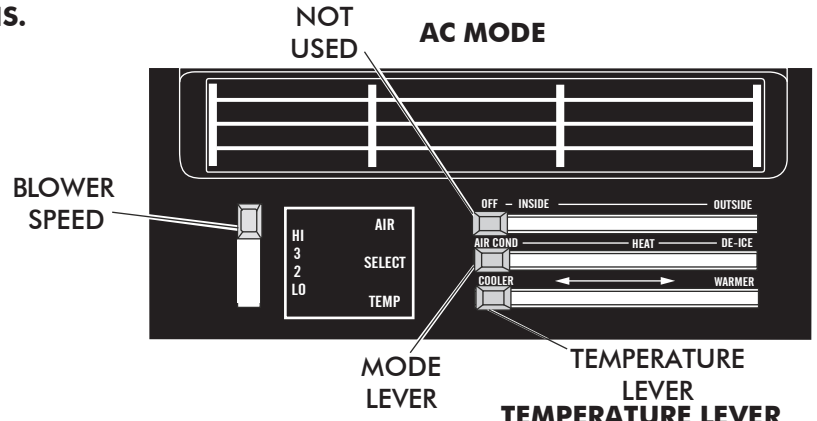
NOTE: CONTROLS MUST BE CALIBRATED FOR PROPER OPERATION.

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

NOTE: EACH TIME THE SYSTEM TOGGLES BETWEEN MODES, THE BLOWER WILL MOMENTARILY CHANGE SPEEDS.

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

AC MODE

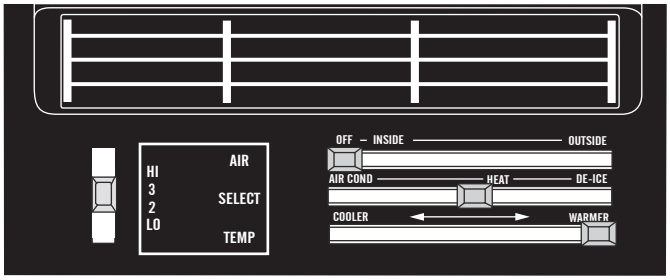


BLOWER SPEED
ADJUST TO DESIRED SPEED

MODE LEVER
SLIDE THE LEVER TO THE LEFT POSITION

TEMPERATURE LEVER
IN A/C MODE SLIDE THE TEMPERATURE LEVER ALL THE WAY TO THE LEFT TO ENGAGE COMPRESSOR. (SLIDE LEVER LEFT OR RIGHT TO ADJUST DESIRED TEMPERATURE)

HEAT MODE

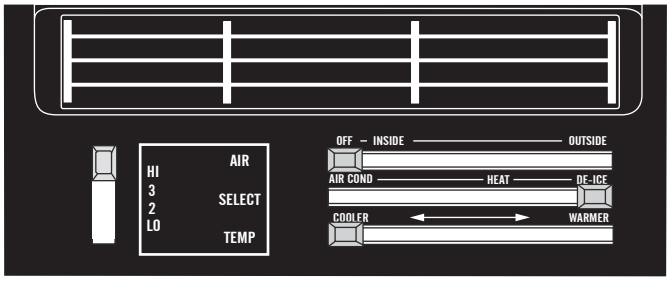


BLOWER SPEED
ADJUST TO DESIRED SPEED

MODE LEVER
SLIDE THE LEVER TO THE CENTER POSITION

TEMPERATURE LEVER
SLIDE THE TEMPERATURE LEVER ALL THE WAY RIGHT TO THE WARMER POSITION. (SLIDE LEVER LEFT OR RIGHT TO DESIRED TEMPERATURE)

DEFROST/ DE-FOG MODE



BLOWER SPEED
ADJUST TO DESIRED SPEED

MODE LEVER
SLIDE THE LEVER TO THE RIGHT POSITION

TEMPERATURE LEVER
ADJUST LEVER TO DESIRED TEMPERATURE. (COMPRESSOR IS AUTOMATICALLY ENGAGED)

OPERATION OF CONTROLS (65-67 GTO ONLY)

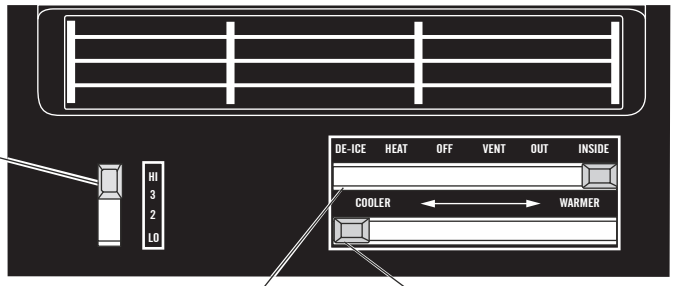
NOTE: CONTROLS MUST BE CALIBRATED FOR PROPER OPERATION.

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

NOTE: EACH TIME THE SYSTEM TOGGLES BETWEEN MODES, THE BLOWER WILL MOMENTARILY CHANGE SPEEDS.

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

AC MODE

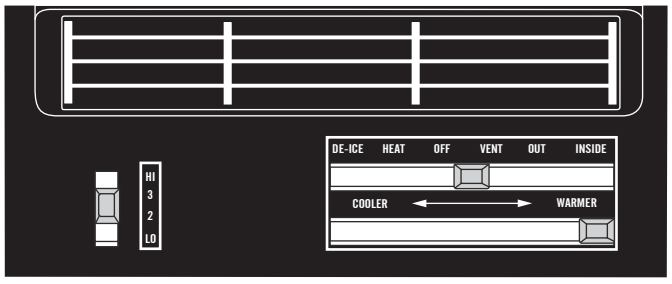


BLOWER SPEED
ADJUST TO DESIRED SPEED

MODE LEVER
SLIDE THE LEVER TO THE RIGHT POSITION

TEMPERATURE LEVER
IN A/C MODE SLIDE THE TEMPERATURE LEVER ALL THE WAY TO THE LEFT TO ENGAGE COMPRESSOR. (SLIDE LEVER LEFT OR RIGHT TO ADJUST DESIRED TEMPERATURE)

HEAT MODE

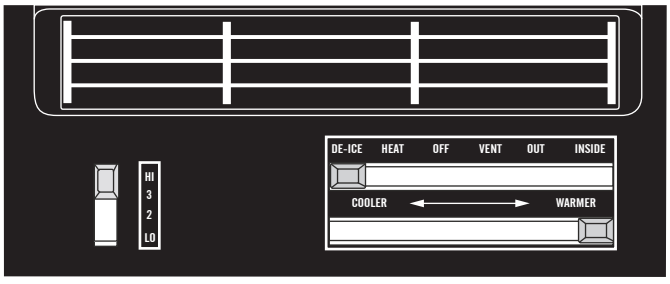


BLOWER SPEED
ADJUST TO DESIRED SPEED

MODE LEVER
SLIDE THE LEVER TO THE CENTER POSITION

TEMPERATURE LEVER
SLIDE THE TEMPERATURE LEVER ALL THE WAY RIGHT TO THE WARMER POSITION. (SLIDE LEVER LEFT OR RIGHT TO DESIRED TEMPERATURE)

DEFROST/ DE-FOG MODE



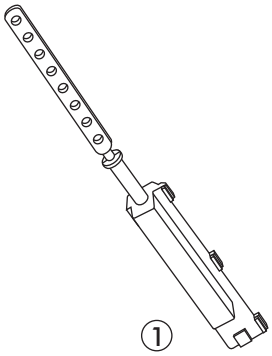
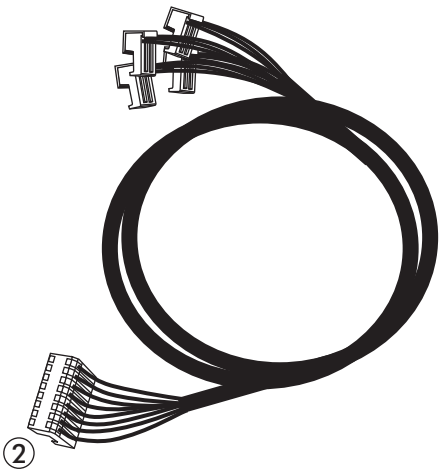
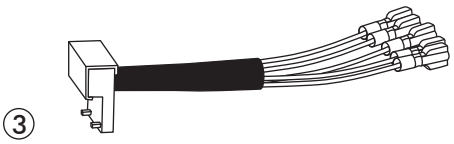
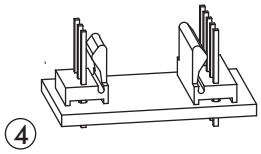
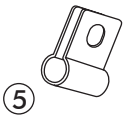
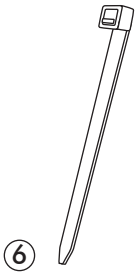
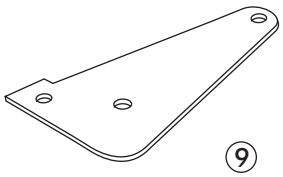
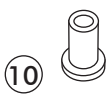
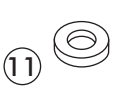
BLOWER SPEED
ADJUST TO DESIRED SPEED

MODE LEVER
SLIDE THE LEVER TO THE LEFT POSITION

TEMPERATURE LEVER
ADJUST LEVER TO DESIRED TEMPERATURE. (COMPRESSOR IS AUTOMATICALLY ENGAGED)

CONTROL KIT PACKING LIST

CONTROL KIT
473167

No	QTY	PART No.	DESCRIPTION	
1.	2	112002-SUA	CABLE CONVERTER ASSEMBLY	_____
2.	1	232002-VUA	GEN IV UNIVERSAL CONTROL HARNESS	_____
3.	1	246019	CABLE ASSY SWITCH INTERFACE, UNIVERSAL	_____
4.	1	246116-0	SWITCH INTERFACE, UNIVERSAL	_____
5.	2	491010-VUR	CABLE CONVERTER CLAMP	_____
6.	5	21301-VUP	4" TIE WRAP	_____
7.	1	231520	GROUND WIRE	_____
8.	1	643050	BRKT 64-67 GTO w AC DASH/ FLR/ DEF CABLE CONVERTER	_____
9.	4	18247-VUB	#10 x 1/2 HEX SHEET METAL SCREW	_____
10.	1	49700-VUI	1/8 ID x 11/64 OD NYLON INSERT (64 GTO ONLY)	_____
11.	5	49705-VUI	1/8" NYLON SPACER (64 GTO ONLY)	_____
12.	1	18122-VUB	#6 SAE FLAT WASHER (64 GTO ONLY)	_____
13.	1	18412-VUB	4-40 NYLOK NUT (64 GTO ONLY)	_____
14.	1	18400-VUB	4-40 x 5/8" PH MACH SCREW (64 GTO ONLY)	_____
15.	2	18257-VUB	#10 x 3/4 HEX SHEET METAL SCREW (64 GTO ONLY)	_____

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DATE: _____