VINTAGE AIR

1958-60 CORVETTE
CONTROL PANEL
CONVERSION KIT
473158

Table of Contents

No	QTY	PART No.	DESCRIPTION
1.	3	246018-0	ROTARY POT ASM
2.	1	232002-VUA	GEN IV UNIVERSAL CONTROL HARNESS
3.	3	497008	KNOB, 58-60 VETTE CONTROL
4.	2	186011	WASHER .625 OD x .281 ID
5.	5	21301-VUP	4" TIE WRAP
6.	1	231520	GROUND WIRE
7.	1	117000	ADAPTER, 58-62 CORVETTE CONTROL POT UPPER
8.	2	117001	ADAPTER, 58-62 CORVETTE CONTROL POT LOWER

** 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.
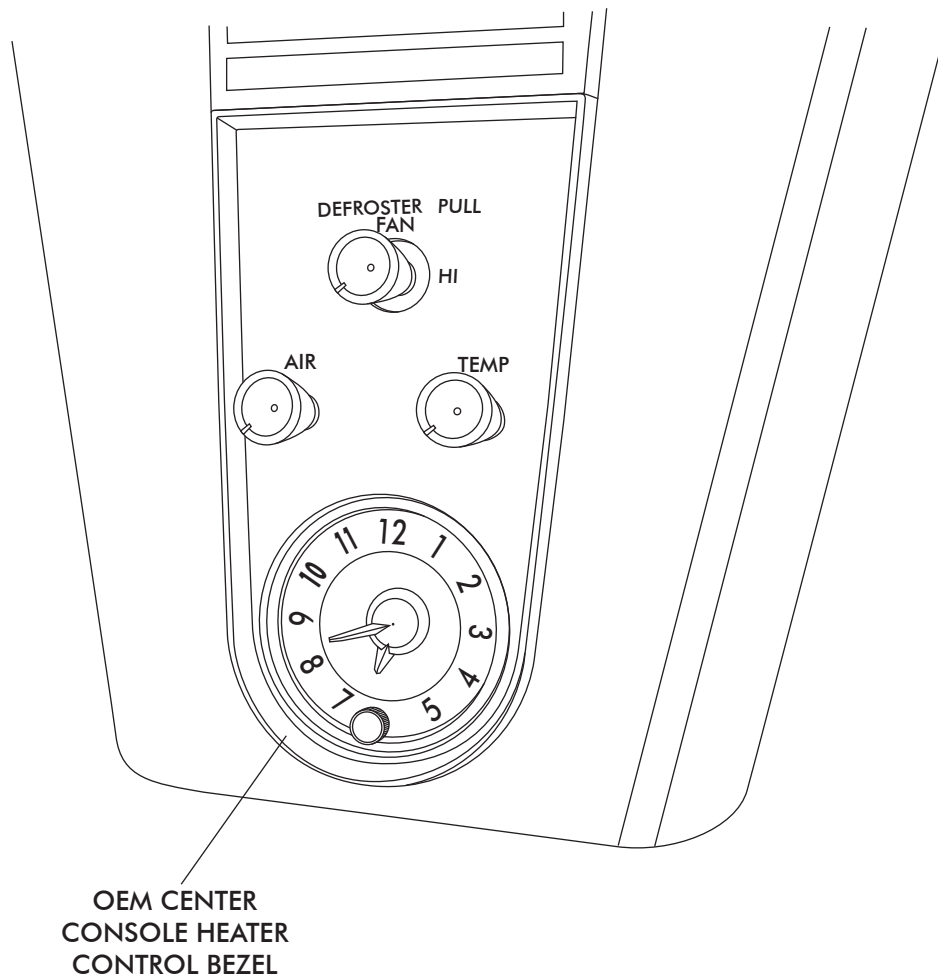
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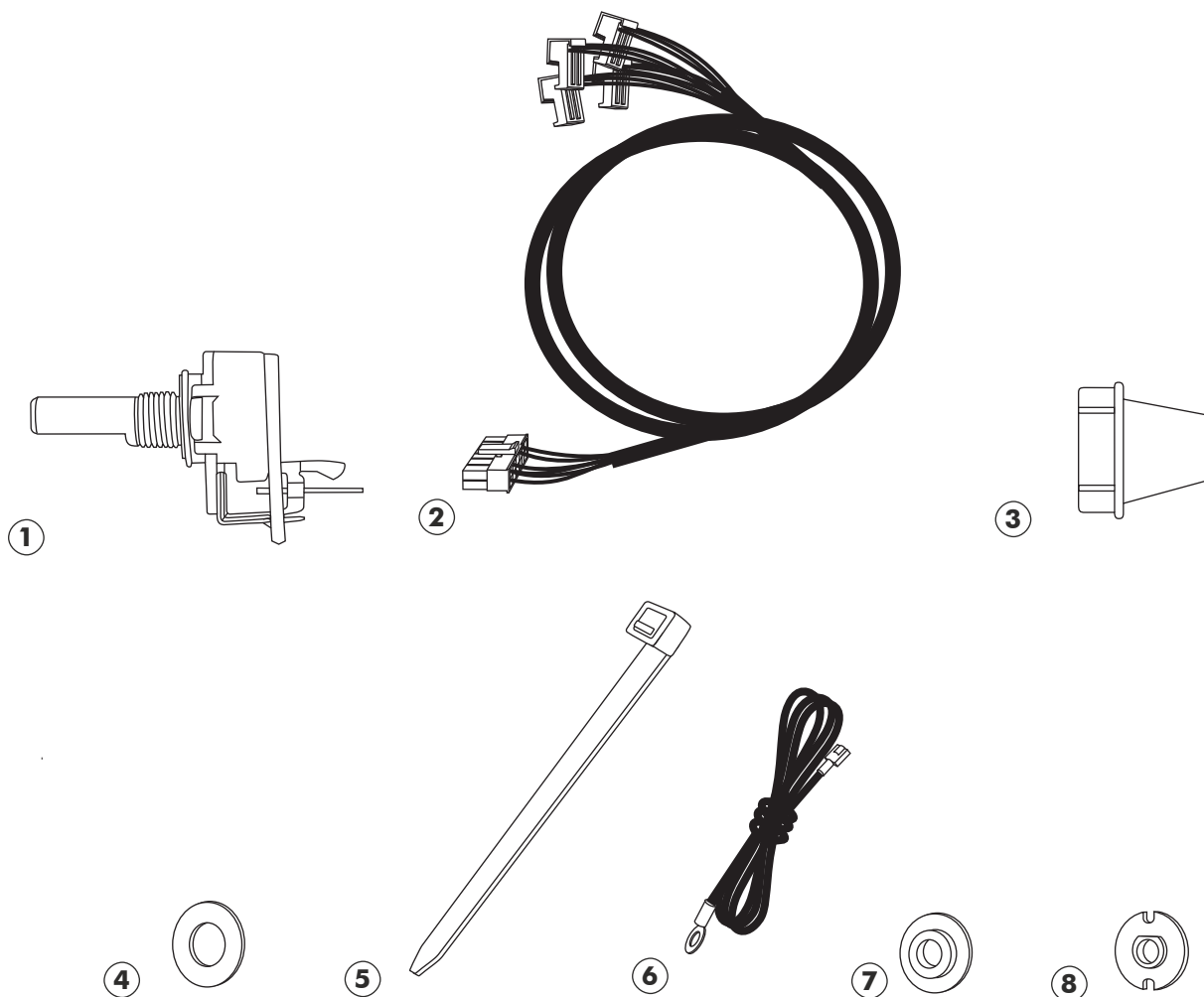
ROTARY POT CONTROL CONVERSION INSTRUCTIONS FOR 1958-60 CORVETTE

OEM CENTER CONSOLE HEATER CONTROL BEZEL
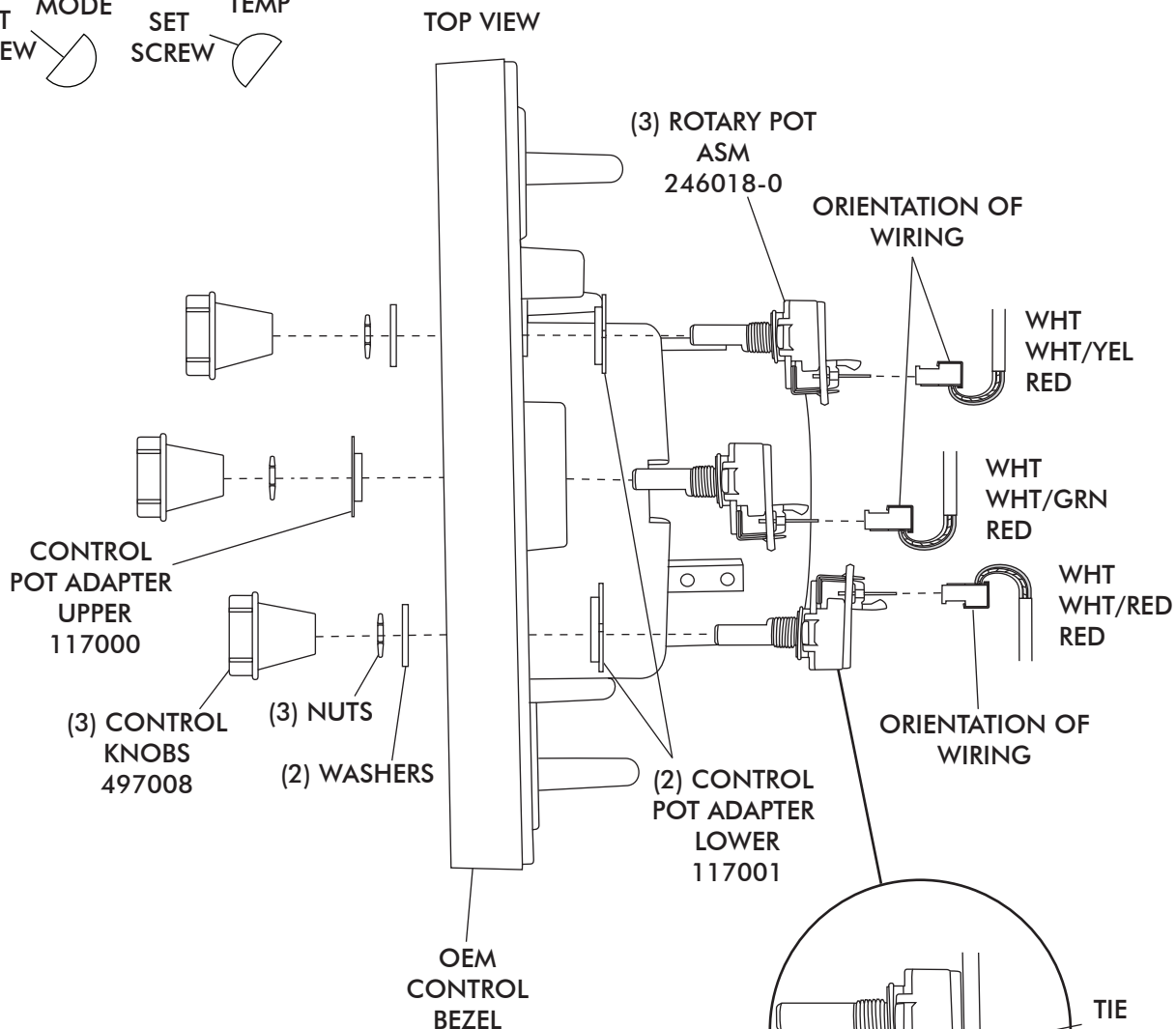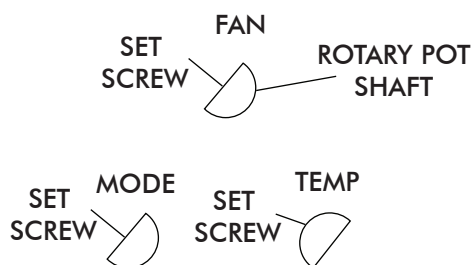
☐ DISCONNECT CABLES, WIRES FROM BACK OF CONTROL BEZEL.
☐ REMOVE OEM CONTROL BEZEL.

DEFROSTER PULL
FAN
HI

AIR

TEMP

12 1 2 3 4 5 6 7 8 9 10 11

OEM CENTER
CONSOLE HEATER
CONTROL BEZEL

ROTARY POT INSTALLATION

☐ CUT 1/8" SLOT IN OEM DEFROSTER PULL FAN HOLE IN CONTROL BEZEL. SEE BELOW.
☐ LOCATE THE (3) ROTARY POT ASSEMBLIES, AND INSTALL IN OEM CONTROL BEZEL AS SHOWN BELOW.
☐ TIE WRAP WIRES TO ROTARY POTS AS SHOWN.
☐ INSTALL CONTROL KNOB AS SHOWN BELOW.

BACK SIDE
OF CONTROL
PANEL

CUT 1/8"
SLOT

OEM DEFROSTER
PULL FAN HOLE

1/8

1/8

SET SCREW
FAN
ROTARY POT SHAFT

SET SCREW
MODE

SET SCREW
TEMP

TOP VIEW

(3) ROTARY POT
ASM
246018-0

ORIENTATION OF
WIRING

WHT
WHT/YEL
RED

WHT
WHT/GRN
RED

WHT
WHT/RED
RED

CONTROL
POT ADAPTER
UPPER
117000

ORIENTATION OF
WIRING

(3) CONTROL
KNOBS
497008

(3) NUTS

(2) WASHERS

(2) CONTROL
POT ADAPTER
LOWER
117001

OEM
CONTROL
BEZEL

TIE
WRAP

5

FINAL STEPS

☐ PLUG THE WIRING HARNESS INTO THE ECU MODULE ON SUB CASE. SEE BELOW.
☐ WIRE ACCORDING TO WIRING DIAGRAM ON PAGE 9.
☐ TO CALIBRATE THE CONTROLS FOLLOW THE CALIBRATION PROCEDURES ON PAGES 7 & 8.

PLUG FROM CONTROL WIRING HARNESS 232002-VUA

PLUG FROM WIRING HARNESS 232001-VUR

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.
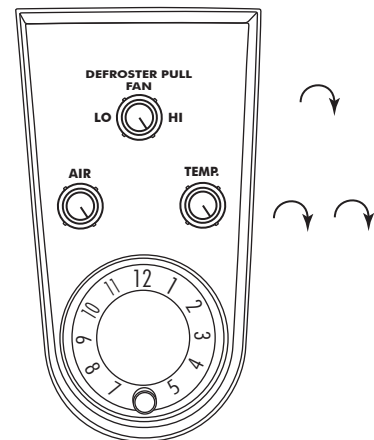
White Jumper
Cable

Gray
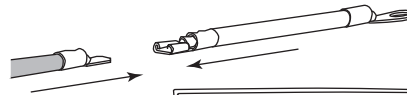Program Wire

7
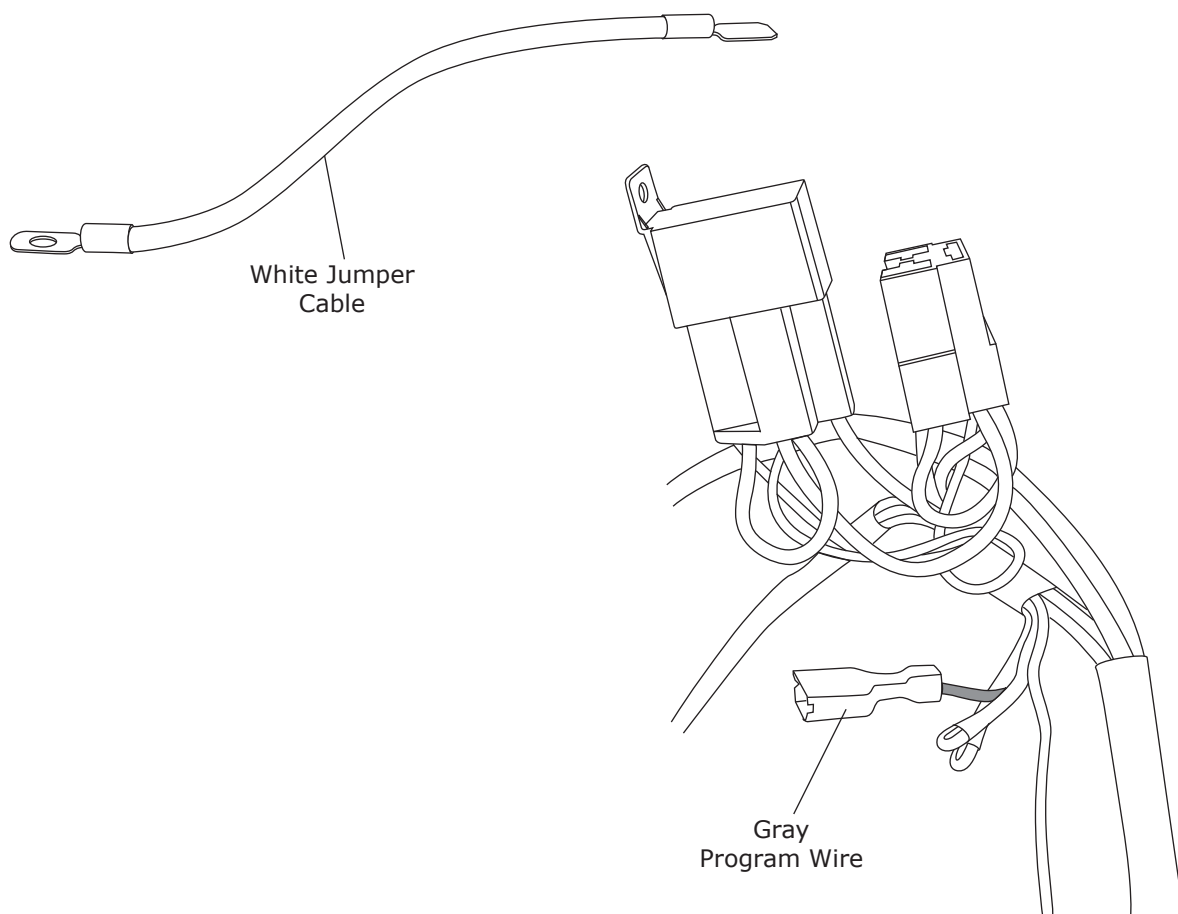
CONTROL PANEL CALIBRATION PROCEDURE CONT.

☐ TURN THE IGNITION SWITCH ON (DO NOT START THE ENGINE)
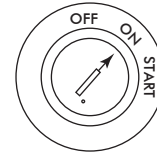
☐ MOVE THE FAN SWITCH (IF USED) AND CONTROL KNOBS TO THE POSITION SHOWN.

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

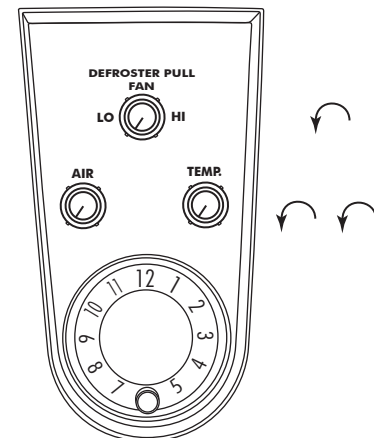☐ MOVE THE FAN SWITCH AND CONTROL KNOBS TO THE POSITIONS SHOWN

☐ DISCONNECT THE WHITE JUMPER WIRE FROM THE GRAY PROGRAM WIRE. THE BLOWER SPEED WILL CHANGE, INDICATING COMPLETION OF THE CALIBRATION PROCEDURE.
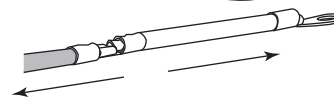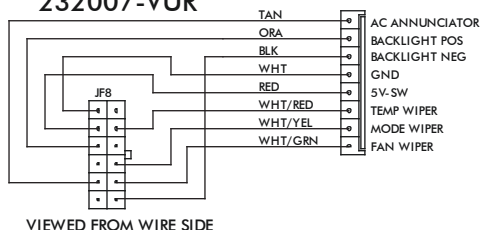
☐ CONFIRM PROPER OPERATION OF CONTROLS. REPEAT PROCEDURE IF NECESSERY. **WHEN FINISHED, TAPE OVER PROGRAM WIRE CONNECTER WITH ELECTRICAL TAPE TO PREVENT ACCIDENTAL CONTACT WITH CHASSIS GROUND.**
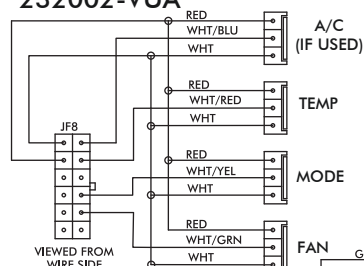
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232007-VUR

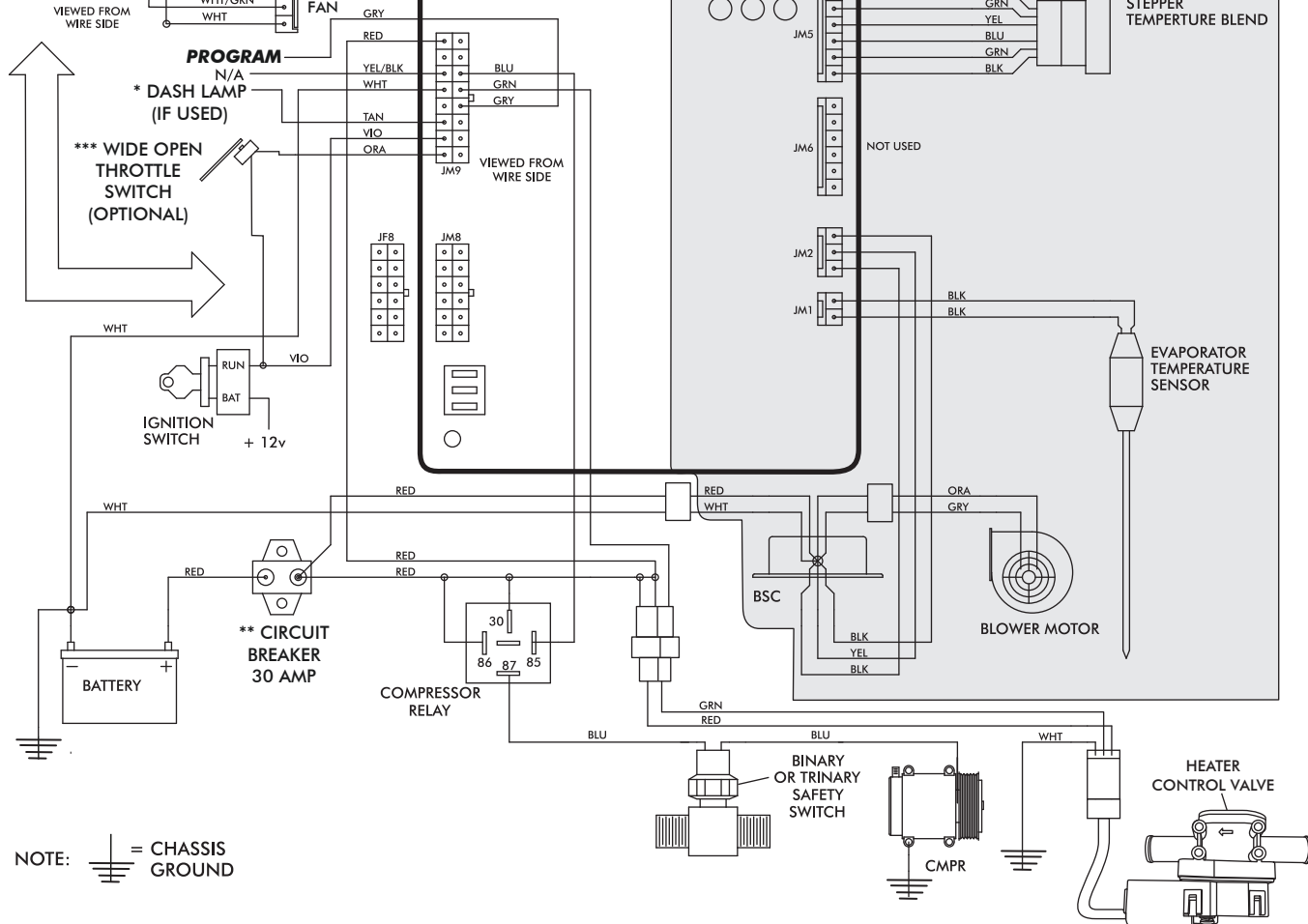TAN — AC ANNUNCIATOR
ORA — BACKLIGHT POS
BLK — BACKLIGHT NEG
WHT — GND
RED — 5V-SW
WHT/RED — TEMP WIPER
WHT/YEL — MODE WIPER
WHT/GRN — FAN WIPER

JF8

VIEWED FROM WIRE SIDE

232002-VUA

RED
WHT/BLU — A/C (IF USED)
WHT

RED
WHT/RED — TEMP
WHT

RED
WHT/YEL — MODE
WHT

RED
WHT/GRN — FAN
WHT

JF8

VIEWED FROM WIRE SIDE

GRY
RED
PROGRAM
N/A — YEL/BLK — BLU
* DASH LAMP — WHT — GRN
(IF USED) — GRY
TAN
VIO
ORA

*** WIDE OPEN THROTTLE SWITCH (OPTIONAL)

JM9 — VIEWED FROM WIRE SIDE

JF8 JM8

WHT

RUN
BAT — VIO

IGNITION SWITCH + 12v

GEN IV ECU

GEN IV WIRING DIAGRAM
REV D, 5/6/2014

PRE-WIRED

JM3 — RED / GRN / YEL / BLU / GRN / BLK — STEPPER DASH/FLOOR

JM4 — RED / GRN / YEL / BLU / GRN / BLK — STEPPER DEFROST/PLENUM

JM5 — RED / GRN / YEL / BLU / GRN / BLK — STEPPER TEMPERTURE BLEND

JM6 — NOT USED

JM2

JM1 — BLK / BLK — EVAPORATOR TEMPERATURE SENSOR

RED
WHT — WHT
ORA
GRY

BSC

BLK
YEL
BLK

BLOWER MOTOR

WHT

RED

WHT

RED
RED

** CIRCUIT BREAKER 30 AMP

30
86 85
87

COMPRESSOR RELAY

GRN
RED
BLU — BLU — WHT

BATTERY

BINARY OR TRINARY SAFETY SWITCH

CMPR

HEATER CONTROL VALVE

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.**

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THE TEMPERATURE KNOB TOGGLES BETWEEN A/C AND HEAT MODES. FOR A/C MODE ROTATE THE TEMPERATURE KNOB ALL THE WAY LEFT. FOR HEAT MODE ROTATE THE KNOB ALL THE WAY TO THE RIGHT TO DISENGAGE THE COMPRESSOR, THEN MOVE THE KNOB TO SELECT DESIRED TEMPRERATURE.

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.

A/C MODE

BLOWER SPEED

DEFROSTER PULL FAN

OFF — HI

MODE KNOB

FLOOR

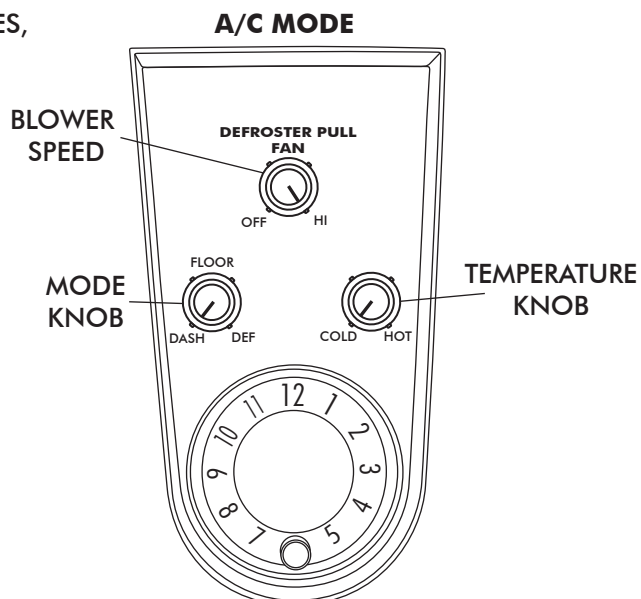DASH — DEF

TEMPERATURE KNOB

COLD — HOT

BLOWER SPEED
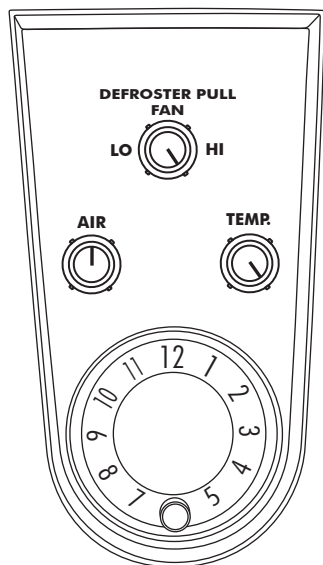THIS KNOB CONTROLS THE BLOWER SPEED, FROM OFF TO HI

MODE KNOB
ROTATE THE KNOB TO THE LEFT TO DIRECT AIR FLOW TO THE DASH VENTS

TEMPERATURE KNOB
IN A/C MODE ROTATE THE TEMPERATURE KNOB ALL THE WAY LEFT TO THE COLD POSITION TO ENGAGE COMPRESSOR. (ROTATE KNOB LEFT OR RIGHT TO ADJUST DESIRED TEMPERATURE)

HEAT MODE

DEFROSTER PULL FAN

LO — HI

AIR

TEMP.

DEFROST/ DE-FOG MODE

DEFROSTER PULL FAN

LO — HI

AIR

TEMP.

BLOWER SPEED
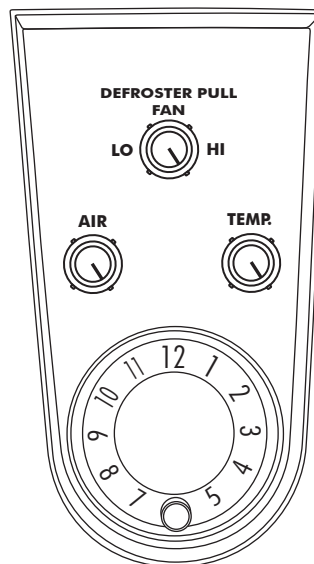ROTATE KNOB RIGHT TO DESIRED BLOWER SPEED FROM OFF TO HI.

MODE KNOB
ROTATE THE KNOB TO THE CENTER TO DIRECT AIR FLOW TO THE FLOOR.

TEMPERATURE KNOB
IN HEAT MODE ROTATE THE TEMPERATURE KNOB ALL THE WAY RIGHT TO THE HOT POSTION. (ROTATE KNOB LEFT OR RIGHT TO ADJUST DESIRED TEMPERATURE)

BLOWER SPEED
ROTATE KNOB RIGHT TO DESIRED BLOWER SPEED FROM OFF TO HI.

MODE KNOB
ROTATE THE KNOB TO THE RIGHT TO DIRECT AIR FLOW TO THE DEFROST VENTS.

TEMPERATURE KNOB
ROTATE KNOB LEFT OR RIGHT TO ADJUST DESIRED TEMPERATURE. (COMPRESSOR IS AUTOMATICALLY ENGAGED)

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![Vintage Air logo]

CONTROL KIT
473158

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CHECKED BY: _____
PACKED BY: _____
DATE: _____

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