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1958-60 CORVETTE

561059

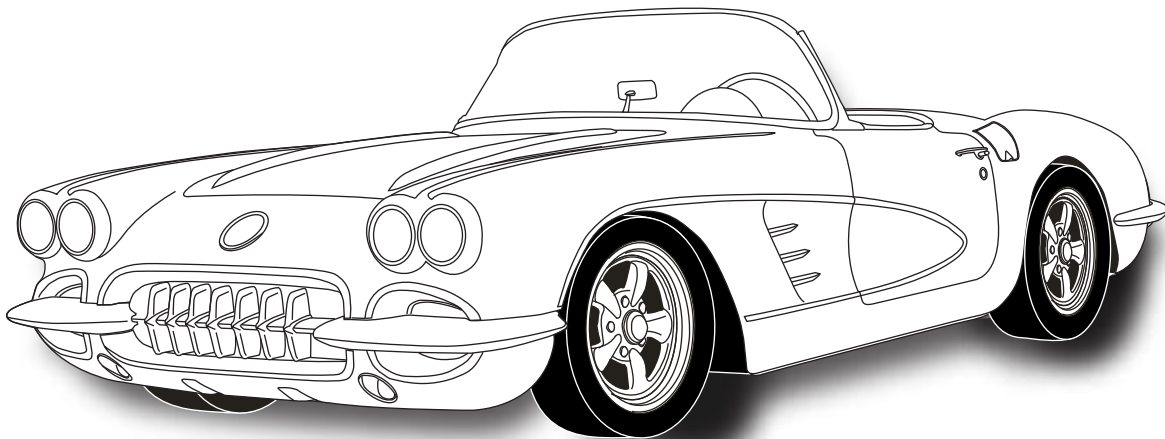




Table of Contents

PAGES

1. COVER
2. TABLE OF CONTENTS
3. PACKING LIST / PARTS DISCLAIMER
4. INFORMATION PAGE
5. WIRING NOTICE
6. ENGINE COMPARTMENT
FIGURE 1
7. CONDENSER ASSEMBLY, COMPRESSOR & BRACKET, PASSENGER COMPARTMENT
FIGURES 2 & 2a
8. KICK PANEL MODIFICATION
FIGURE 3
9. FIREWALL COVER INSTALLATION & EVAPORATOR INSTALLATION
FIGURES 4 & 5
10. BRACKET INSTALLATION
FIGURE 6
11. EVAPORATOR INSTALLTION CONT.
FIGURES 7, 8 & 8a
12. DRAIN HOSE INSTALLATION, LUBRICATING O-RINGS, A/C HOSE INSTALLATION, &
MODIFIED A/C HOSE KIT
FIGURES 9 & 10
13. DRIVER SIDE COMPRESSOR MOUNT AC & HEATER HOSE ROUTING
FIGURE 11
14. PASSENGER SIDE COMPRESSOR MOUNT AC & HEATER HOSE ROUTING
FIGURE 12
15. FINAL STEPS
FIGURE 13
16. CONTROL PANEL & DUCT HOSE ROUTING
FIGURE 14
17. DRIVER SIDE UNDER DASH LOUVER & PASSENGER SIDE UNDER DASH LOUVER
INSTALLATION
FIGURES 15, 15a & 16
18. WIRING DIAGRAM
19. GEN IV WIRING CONNECTION INSTRUCTIONS
20. OPERATION OF CONTROLS
21. TROUBLE SHOOTING INFORMATION
22. TROUBLE SHOOTING INFORMATION CONT.
23. UNDER DASH FRONT EVAP BRKT TEMPLATE
24. EVAPORATOR KIT PACKING LIST



EVAPORATOR KIT PACKING LIST

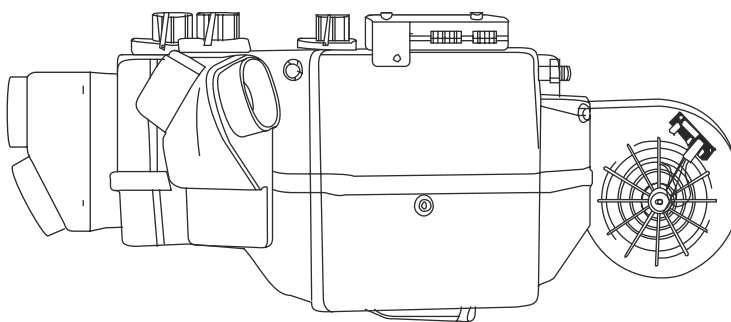
EVAPORATOR KIT
561059

No.	QTY.	PART No.	DESCRIPTION
1.	1	744008	GEN IV 4 VENT EVAP SUB CASE w/ 204 ECU
2.	1	781059	ACC KIT 58-60 CORVETTE

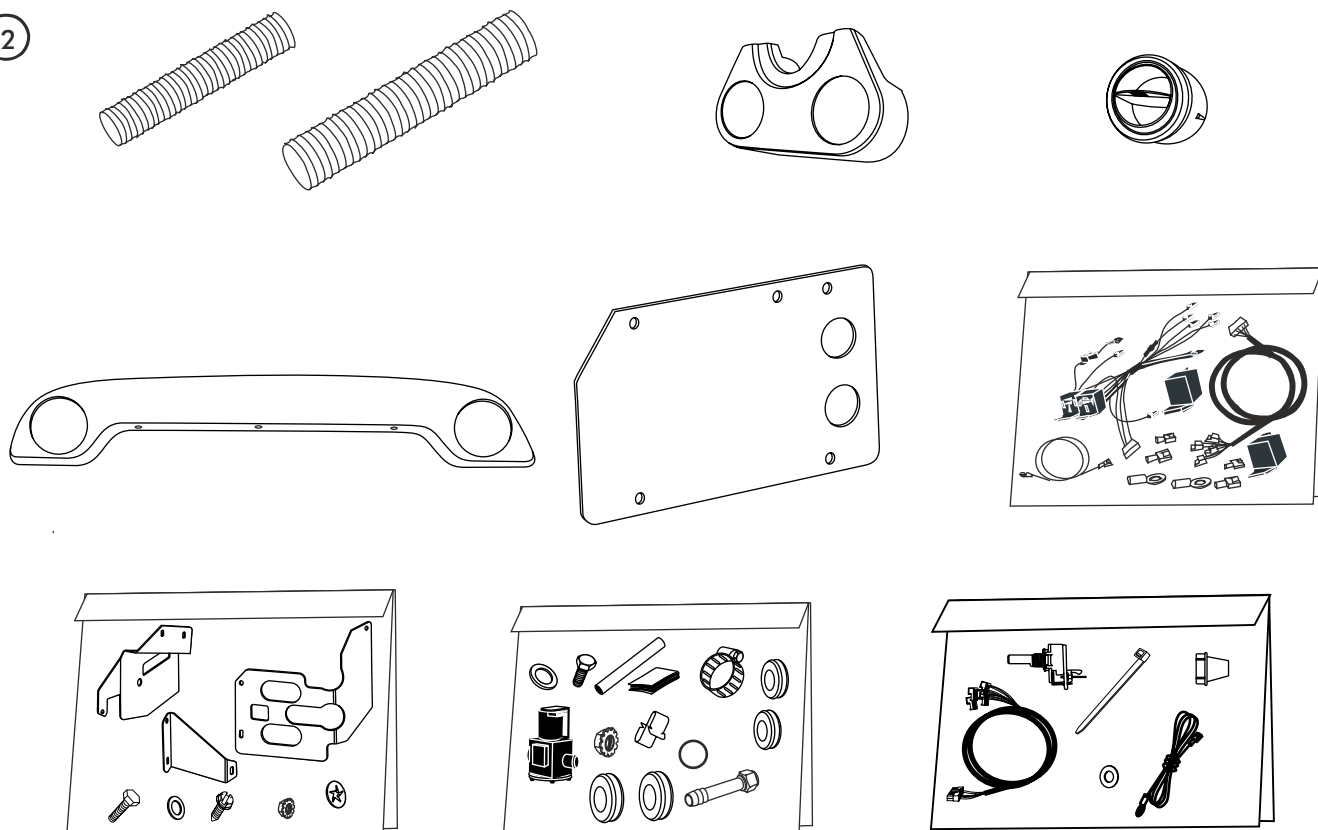
**** BEFORE BEGINNING INSTALLATION OPEN ALL PACKAGES AND CHECK CONTENTS OF SHIPMENT. PLEASE REPORT ANY SHORTAGES DIRECTLY TO VINTAGE AIR WITHIN 15 DAYS. AFTER 15 DAYS, VINTAGE AIR WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED ITEMS.**

①

**GEN IV 4 VENT
EVAP SUB CASE
w/ 204 ECU
744008**



②



**ACCESSORY KIT
781059**

**NOTE: IMAGES MAY NOT DEPICT ACTUAL PARTS AND QUANTITIES.
REFER TO PACKING LIST FOR ACTUAL PARTS AND QUANTITIES.**



IMPORTANT NOTICE-PLEASE READ

FOR MAXIMUM SYSTEM PERFORMANCE VINTAGE AIR RECOMMENDS THE FOLLOWING:

THIS KIT DOES NOT CONTAIN HEATER HOSE. YOU MUST PURCHASE 8 FEET OF 5/8" DIA. HEATER HOSE (31800-VUD) FROM VINTAGE AIR OR FROM YOUR LOCAL PARTS RETAILER.

SAFETY SWITCHES:

YOUR VINTAGE AIR SYSTEM IS EQUIPPED WITH A BINARY PRESSURE SAFETY SWITCH. A BINARY SWITCH (11078-VUS) DISENGAGES THE COMPRESSOR CLUTCH IN CASE OF EXTREME LOW PRESSURE CONDITION (REFRIGERANT LOSS) OR EXCESSIVELY HIGH HEAD PRESSURE (406 PSI), TO PREVENT COMPRESSOR DAMAGE OR HOSE RUPTURE. A TRINARY SWITCH (11076-VUS) COMBINES HI/LO PRESSURE PROTECTION WITH AN ELECTRIC FAN OPERATION SIGNAL AT 254 PSI., AND MAY BE SUBSTITUTED FOR USE WITH ELECTRIC CONDENSER FANS. COMPRESSOR SAFETY SWITCHES ARE EXTREMELY IMPORTANT SINCE AN A/C SYSTEM RELIES ON REFRIGERANT TO CARRY LUBRICATION THROUGH THE SYSTEM.

SERVICE INFO:

ATTENTION: SYSTEM COMPONENTS: THE COMPRESSOR, EVAPORATOR, CONDENSER & DRIER ARE CAPPED. CAPS MAY BE UNDER PRESSURE WITH DRY NITROGEN; BE CAREFUL REMOVING CAPS. DO NOT REMOVE CAPS PRIOR TO INSTALLATION. REMOVING CAPS PRIOR TO INSTALLATION WILL CAUSE COMPONENTS TO COLLECT MOISTURE AND LEAD TO PREMATURE FAILURE AND REDUCED PERFORMANCE.

EVACUATE THE SYSTEM FOR 35-45 MINUTES WITH SYSTEM COMPONENTS (DRIER, COMPRESSOR, EVAPORATOR AND CONDENSER) AT A TEMPERATURE OF AT LEAST 85° F. ON A COOL DAY THE COMPONENTS CAN BE HEATED WITH A HEAT GUN OR BY RUNNING THE ENGINE WITH THE HEATER ON BEFORE EVACUATING. LEAK CHECK AND CHARGE TO SPECIFICATIONS.

**VINTAGE AIR SYSTEMS ARE DESIGNED TO OPERATE WITH R134a
REFRIGERANT ONLY! USE OF ANY OTHER REFRIGERANTS RISKS A DANGER OF FIRE
AND COULD DAMAGE EITHER YOUR AIR CONDITIONING SYSTEM OR YOUR VEHICLE.**

**USE OF ANY OTHER REFRIGERANTS WILL VOID ALL WARRANTIES OF
THE AIR CONDITIONING SYSTEM AND COMPONENTS. USE OF THE PROPER
TYPE AND AMOUNT OF REFRIGERANT IS CRITICAL TO PROPER SYSTEM
OPERATION. VINTAGE AIR RECOMMENDS OUR SYSTEMS BE CHARGED BY
WEIGHT WITH A QUALITY CHARGING STATION OR SCALE.**

REFRIGERANT CAPACITY FOR VINTAGE AIR SYSTEMS

(FOR OTHER SYSTEMS, CONSULT MANUFACTURER GUIDELINES)

134a SYSTEM

CHARGE WITH 1.8 lbs.
(1lbs. 12ozs) OF REFRIGERANT

LUBRICANT CAPACITIES: NEW COMPRESSOR - NO ADDITIONAL OIL NEEDED



IMPORTANT WIRING NOTICE-PLEASE READ

SOME VEHICLES MAY HAVE HAD SOME OR ALL OF THEIR RADIO INTERFERENCE CAPACITORS REMOVED. THERE SHOULD BE A CAPACITOR FOUND AT EACH OF THE FOLLOWING LOCATIONS:

- 1. ON THE POSITIVE TERMINAL OF THE IGNITION COIL**
- 2. IF THERE IS A GENERATOR, ON THE ARMATURE TERMINAL OF THE GENERATOR**
- 3. IF THERE IS A GENERATOR, ON THE BATTERY TERMINAL OF THE VOLTAGE REGULATOR**

MOST ALTERNATORS HAVE A CAPACITOR INSTALLED INTERNALLY TO ELIMINATE WHAT IS CALLED 'WHINING' AS THE ENGINE IS REVVED. IF WHINING IS HEARD IN THE RADIO, OR JUST TO BE EXTRA CAUTIOUS, A RADIO INTERFERENCE CAPACITOR CAN BE ADDED TO THE BATTERY TERMINAL OF THE ALTERNATOR.

IT IS ALSO IMPORTANT THAT THE BATTERY LEAD IS IN GOOD SHAPE AND THAT THE GROUND LEADS ARE NOT COMPROMISED. THERE SHOULD BE A HEAVY GROUND FROM THE BATTERY TO THE ENGINE BLOCK, AND ADDITIONAL GROUNDS TO THE BODY AND TO THE CHASSIS.

IF THESE PRECAUTIONS ARE NOT OBSERVED, IT IS POSSIBLE FOR VOLTAGE SPIKES TO BE PRESENT ON THE BATTERY LEADS. THESE SPIKES COME FROM IGNITION SYSTEMS, CHARGING SYSTEMS, AND FROM TURNING SOME OF THE VEHICLE'S OTHER SYSTEMS ON AND OFF. MODERN COMPUTER OPERATED EQUIPMENT CAN BE SENSITIVE TO VOLTAGE SPIKES ON THEIR POWER LEADS, WHICH CAN CAUSE UNEXPECTED RESETS, STRANGE BEHAVIOR, AND MAY ALSO CAUSE PERMANENT DAMAGE.

VINTAGE AIR STRIVES TO HARDEN THEIR PRODUCTS AGAINST THESE TYPES OF ELECTRICAL NOISE, BUT THERE IS A POINT WHERE A VEHICLE'S ELECTRICAL SYSTEM CAN BE DEGRADED SO MUCH THAT NOTHING CAN HELP.

RADIO INTERFERENCE CAPACITORS SHOULD BE AVAILABLE AT MOST AUTO & TRUCK PARTS SUPPLIERS. THEY TYPICALLY ARE CYLINDRICAL IN SHAPE, A LITTLE OVER AN INCH LONG, A LITTLE OVER A HALF INCH IN DIAMETER, THEY HAVE A SINGLE LEAD COMING FROM ONE END OF THE CYLINDER WITH A TERMINAL ON THE END OF THE WIRE, AND THEY WILL HAVE A MOUNTING CLIP WHICH IS SCREWED INTO A GOOD GROUND ON THE VEHICLE. THE SPECIFIC VALUE OF THE CAPACITANCE IS NOT TOO SIGNIFICANT, IN COMPARISON TO IGNITION CAPACITORS THAT ARE MATCHED WITH THE COIL TO REDUCE PITTING OF THE POINTS.

- CARE MUST BE TAKEN WHEN INSTALLING THE COMPRESSOR LEAD, NOT TO SHORT IT TO GROUND. THE COMPRESSOR LEAD MUST NOT BE CONNECTED TO A CONDENSER FAN OR ANY OTHER AUXILIARY DEVICE. SHORTING TO GROUND OR CONNECTING TO A CONDENSER FAN OR ANY OTHER AUXILIARY DEVICE WILL CAUSE SEVERE DAMAGE TO THE ECU.
- WHEN INSTALLING GROUND LEADS ON GEN IV SYSTEMS, THE BLOWER CONTROL GROUND AND ECU GROUND MUST BE CONNECTED DIRECTLY TO THE NEGATIVE BATTERY POST.
- THE HEATER CONTROL VALVE IS A NORMALLY OPEN VALVE. IT MUST BE CONNECTED TO THE ECU TO BLOCK WATER FLOW IN AC MODE.



BEFORE STARTING THE INSTALLATION, CHECK THE FUNCTION OF THE VEHICLE (HORN, LIGHTS, ETC.) FOR PROPER OPERATIONS. STUDY THE INSTRUCTIONS, ILLUSTRATIONS, & DIAGRAMS.

ENGINE COMPARTMENT

REMOVE THE FOLLOWING

- ☐ DRAIN RADIATOR.
- ☐ DISCONNECT BATTERY.
- ☐ OEM BLOWER MOTOR ASSEMBLY (UNDER HOOD)
- ☐ OEM HEATER HOSES (DISCARD). SEE FIGURE 1.

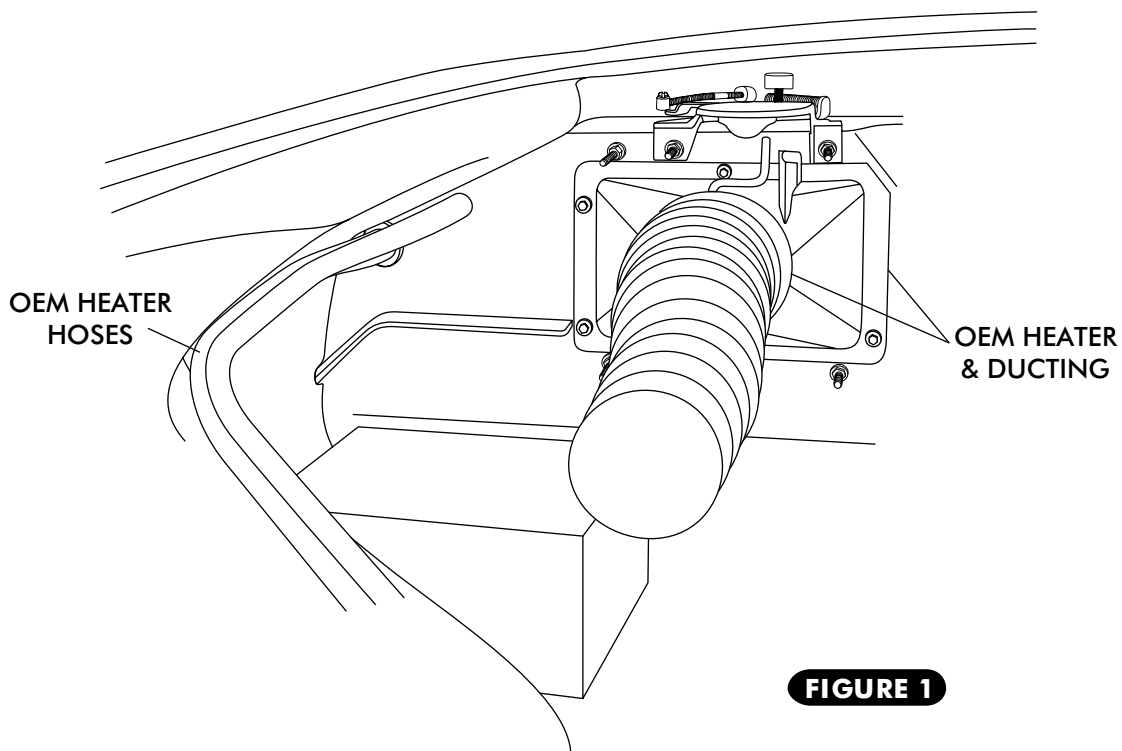


FIGURE 1



CONDENSER ASSEMBLY & INSTALLATION

- ☐ REFER TO SEPARATE INSTRUCTIONS INCLUDED WITH THE CONDENSER KIT TO INSTALL THE CONDENSER.
- ☐ BINARY SWITCH INSTALLATION (REFER TO CONDENSER INSTRUCTIONS)

COMPRESSOR & BRACKETS

- ☐ REFER TO SEPARATE INSTRUCTIONS INCLUDED WITH THE BRACKET KIT TO INSTALL THE COMPRESSOR BRACKET.

PASSENGER COMPARTMENT

REMOVE THE FOLLOWING:

- ☐ PACKAGE TRAY. IF EQUIPPED (RETAIN). SEE FIGURE 2
- ☐ PASSENGER SIDE UNDER DASH COVER (RETAIN).
- ☐ DOOR STEP. (RETAIN).
- ☐ KICK PANEL (RETAIN).
- ☐ KICK PANEL BRACE (DISCARD).
- ☐ RESECURE TOP KICK PANEL BRACE USING 1/4-20 x 3/4 HEX BOLT, (2) 1/4 x 3/4 FLAT WASHERS AND 1/4-20 NUT w/ STAR WASHER AS SHOWN IN FIGURE 2a.
- ☐ DISCONNECT ALL WIRES AND CABLE FROM CONTROL PANEL.

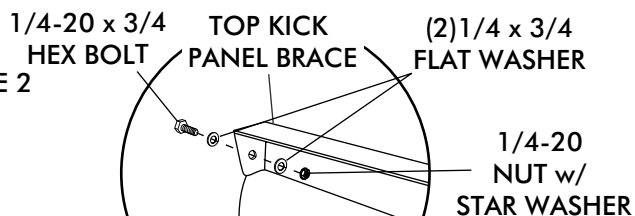


FIGURE 2a

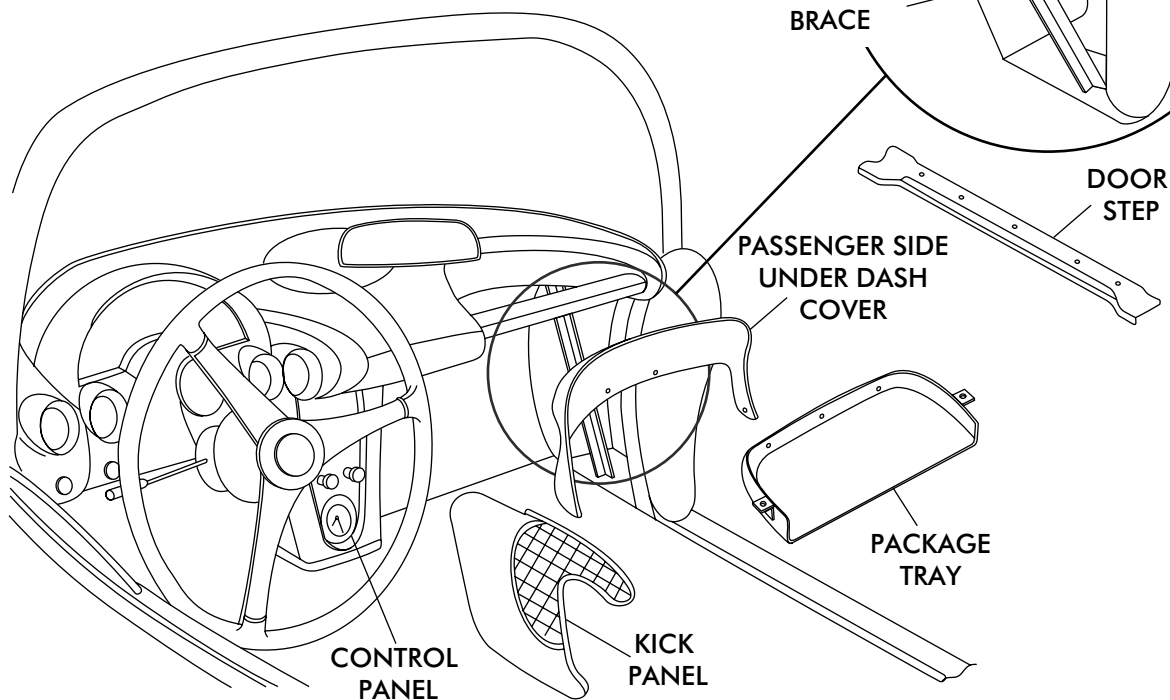
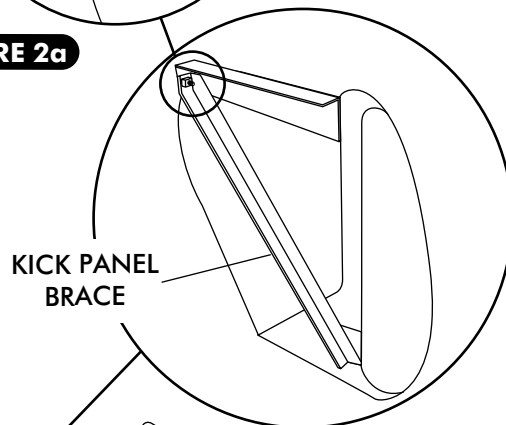


FIGURE 2



KICK PANEL MODIFICATION

- ☐ REMOVE KICK PANEL BY REMOVING (6) OEM SCREWS.
- ☐ MODIFY PASSENGER SIDE KICK PANEL AS SHOWN IN FIGURE 3 BELOW.

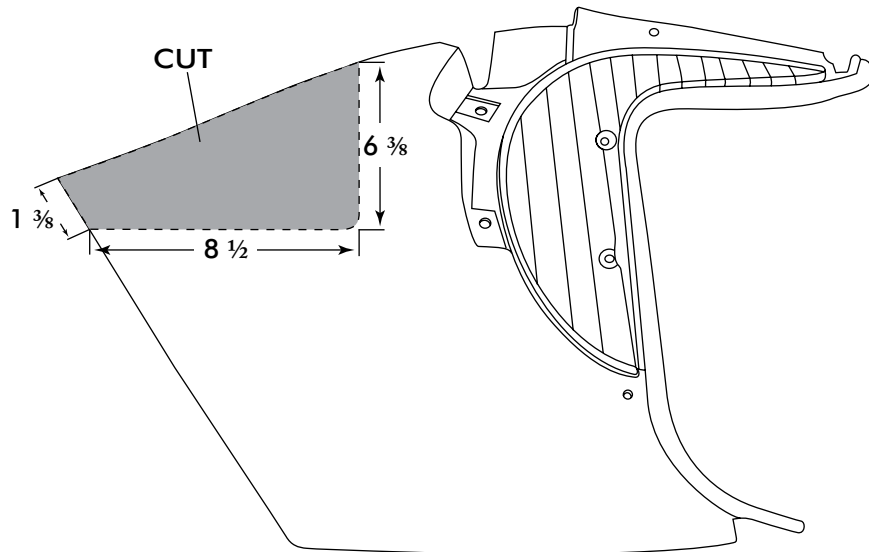
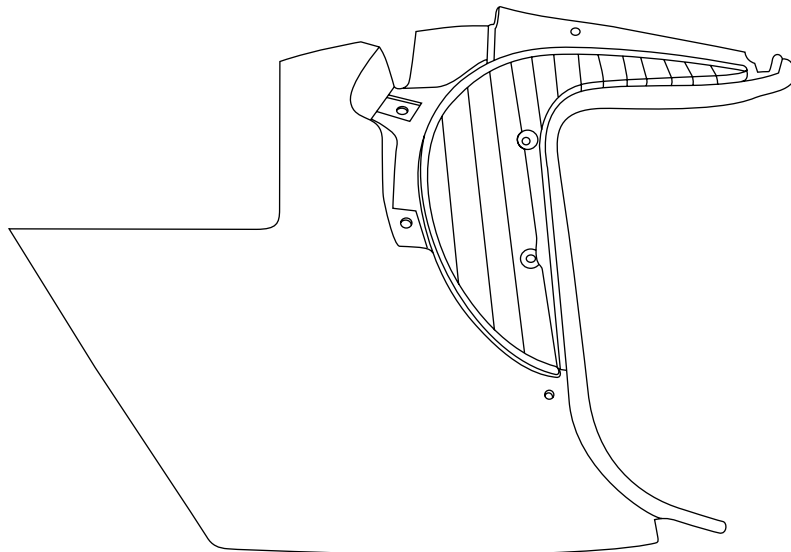


FIGURE 3





FIREWALL COVER INSTALLATION

- ☐ APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF THE FIREWALL COVER AS SHOWN IN FIGURE 4, BELOW.
- ☐ FROM INSIDE THE CAR, INSTALL FIREWALL COVER ON FIREWALL USING (3) 1/4-20 x 1 HEX BOLTS, FLAT WASHERS AND 1/4-20 NUT WITH STAR WASHER, SEE FIGURE 4, BELOW. (NOTE: USE SEAM SEALER TO FILL GAP BETWEEN COVER & LIP IN FIREWALL BEFORE PAINTING.)
- ☐ ENLARGE OEM HEATER HOLE TO 1 1/4 AS SHOWN BELOW.
- ☐ INSTALL GROMMETS IN FIREWALL AS SHOWN BELOW.

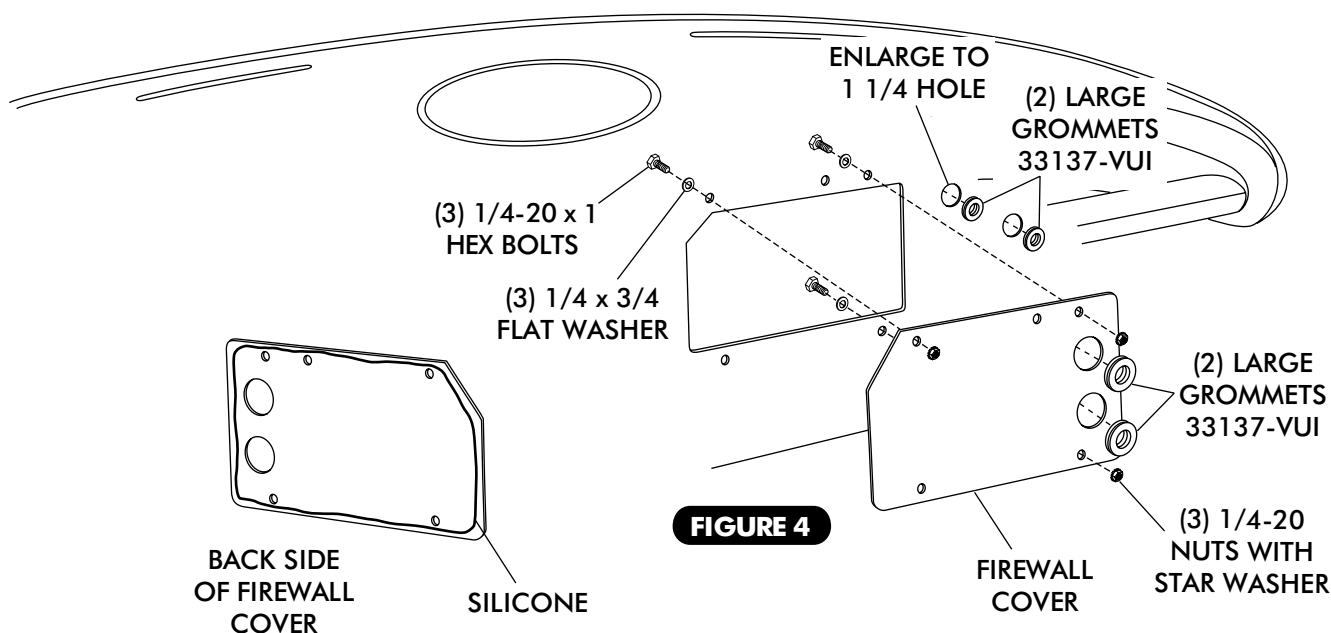


FIGURE 4

EVAPORATOR INSTALLATION

- ☐ ON A WORK BENCH INSTALL (2) HEATER FITTINGS WITH PROPERLY LUBRICATED O-RINGS. (SEE FIGURE 10, PAGE 12, AND FIGURE 6, PAGE 10.)
- ☐ INSTALL (2) 1/4-20 x 1 HEX BOLTS, AND (2) 1/4 PUSH NUT BOLT RETAINERS ON EVAP REAR BRKT AS SHOWN IN FIGURE 6, PAGE 10.
- ☐ INSTALL EVAPORATOR FRONT & REAR MOUNTING BRACKETS ON EVAPORATOR USING (6) 1/4-20 x 1/2 HEX BOLTS AND TIGHTEN AS SHOWN IN FIGURE 5 BELOW & FIGURE 6, PAGE 10.
- ☐ LAY EVAPORATOR SUBCASE ON PASSENGER SIDE FLOOR BOARD. INSTALL A/C & HEATER HOSE ON EVAPORATOR AS SHOWN IN FIGURE 7, PAGE 11 AND HOSE INSTALLATION ON PAGE 13 AND PAGE 14.
- ☐ **(NOTE: WRAP THE #10 FITTING CONNECTIONS WITH PRESS TAPE. SEE FIGURE 7, PAGE 11.)**

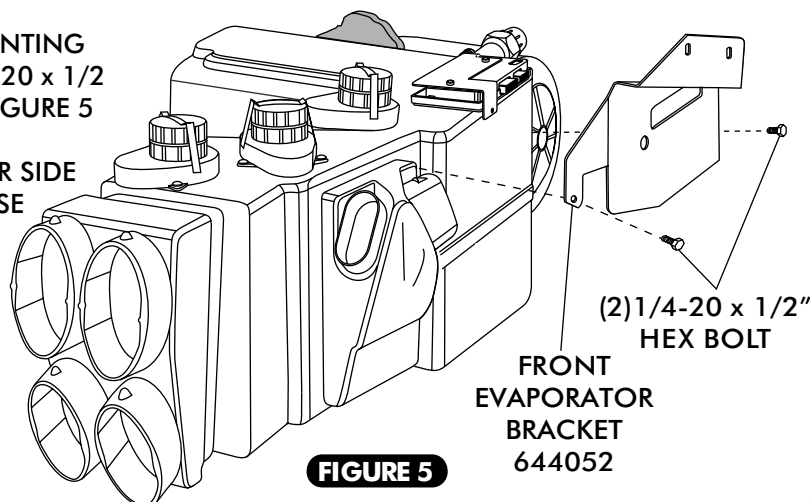
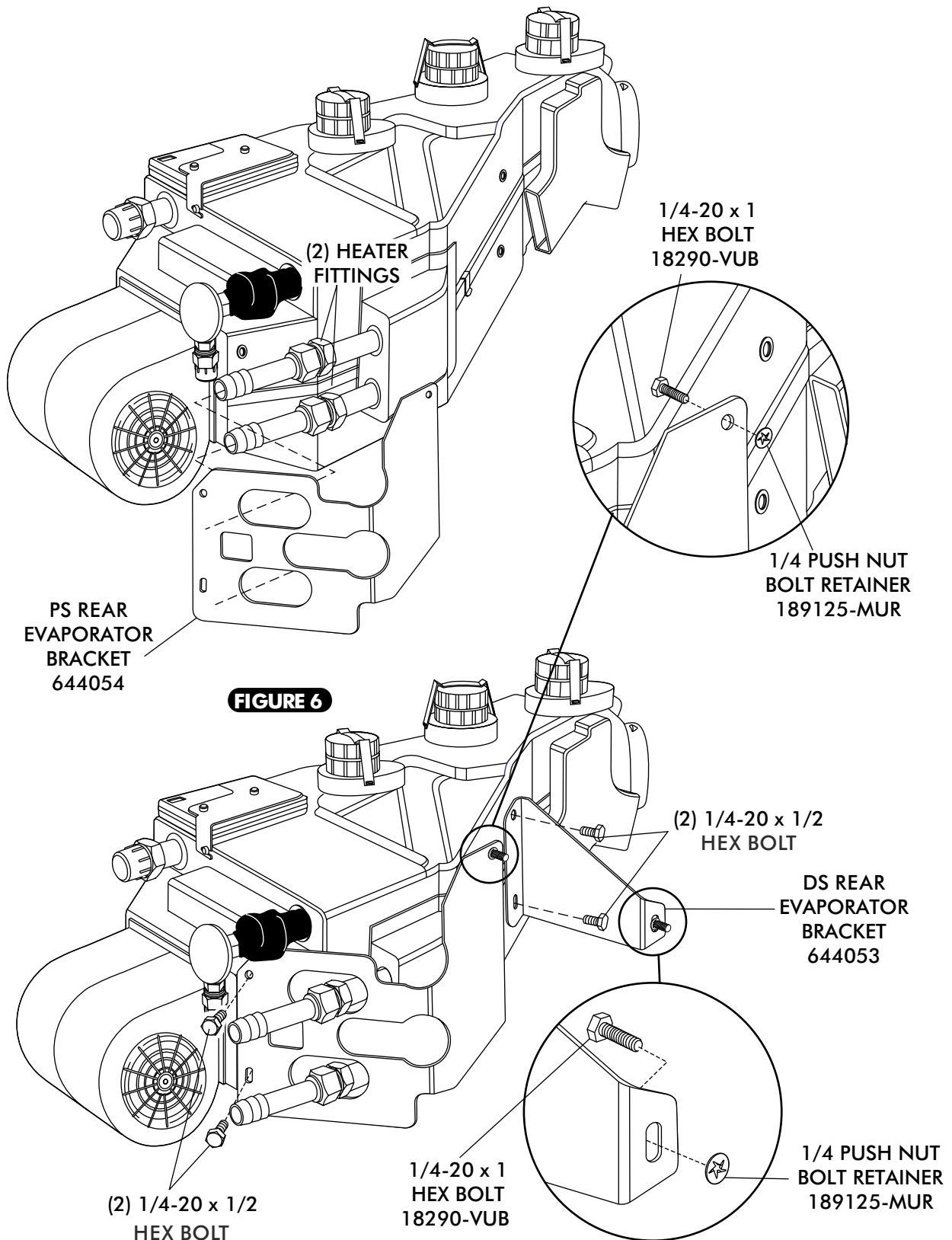


FIGURE 5



BRACKET INSTALLATION





EVAPORATOR INSTALLATION CONT.

- ☐ USING TEMPLATE PROVIDED ON PAGE 23, DRILL (2) 3/16 HOLES IN DASH BRACE AS SHOWN BELOW IN FIGURE 8a.
- ☐ LIFT EVAPORATOR UNIT UP UNDER THE DASHBOARD. SECURE LOOSELY TO THE FIREWALL FROM THE ENGINE COMPARTMENT SIDE USING (2) 1/4-20 NUT WITH STAR WASHER, FLAT WASHERS. SEE FIGURE 8.
- ☐ SECURE THE FRONT EVAPORATOR MOUNTING BRACKET TO COWL USING (2) #14 x 3/4 HEX SHEET METAL SCREWS SEE FIGURE 8 BELOW.
- ☐ VERIFY THAT EVAPORATOR UNIT IS LEVEL AND SQUARE TO THE DASH, THEN TIGHTEN ALL MOUNTING BOLTS. (**NOTE: TIGHTEN THE BOLT ON FIREWALL FIRST, THEN THE FRONT MOUNTING BRACKET.**)

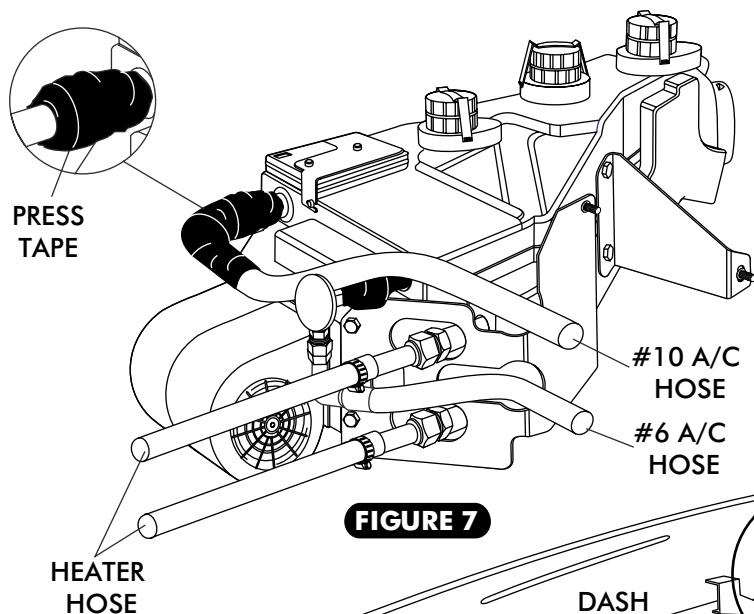


FIGURE 7

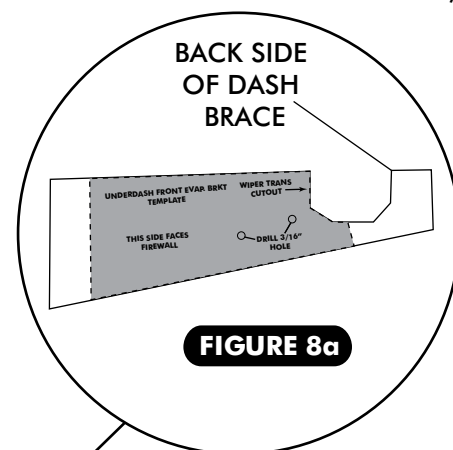


FIGURE 8a

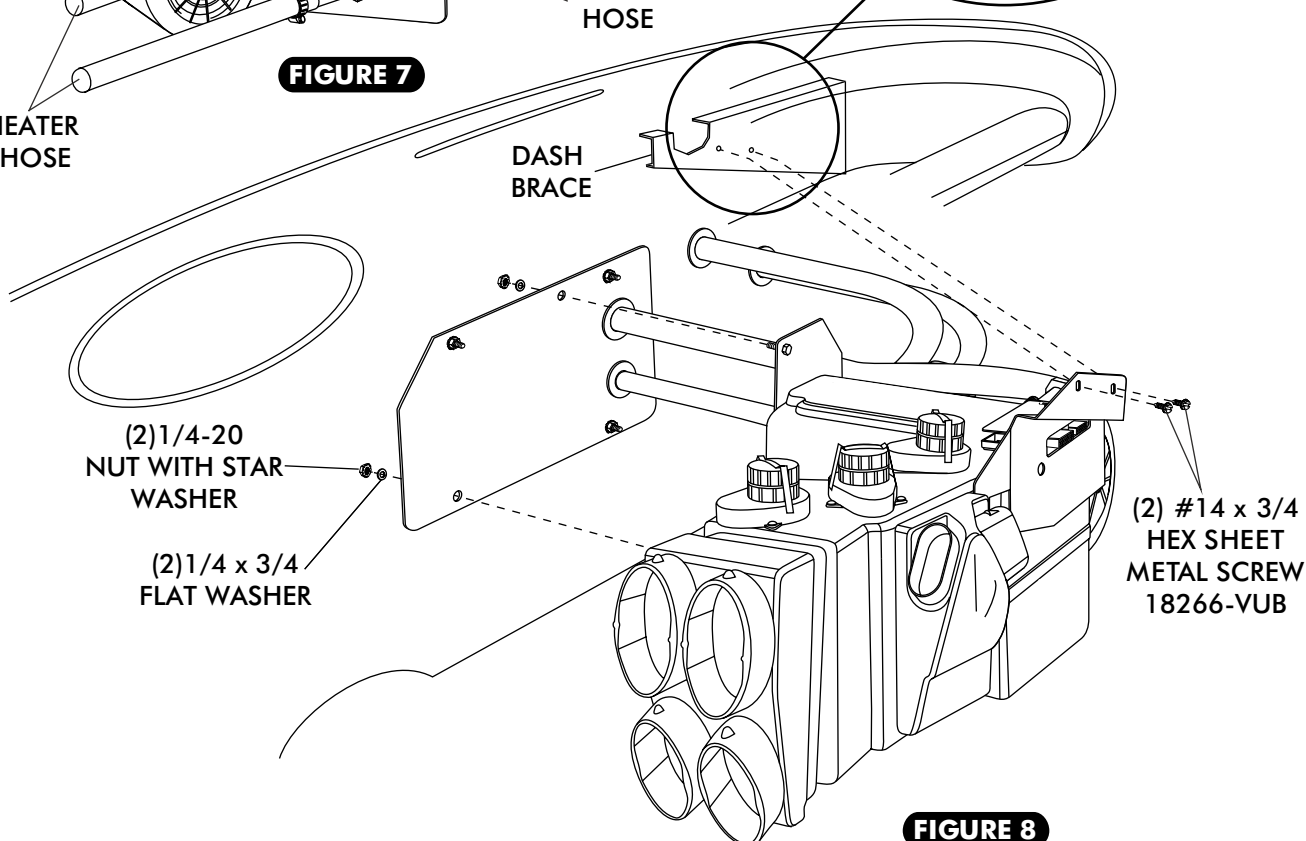


FIGURE 8



DRAIN HOSE INSTALLATION

- ☐ LOCATE EVAPORATOR DRAIN ON BOTTOM OF EVAPORATOR CASE.
- ☐ IN-LINE WITH DRAIN, LIGHTLY MAKE A MARK ON THE FIREWALL MEASURE 1" DOWN AND DRILL A 5/8" HOLE THROUGH THE FIREWALL. SEE FIGURE 9 BELOW.
- ☐ INSTALL DRAIN HOSE TO BOTTOM OF EVAPORATOR UNIT AND ROUTE THROUGH FIREWALL. INSTALL 1/2" 90° DRAIN ELBOW ON DRAIN HOSE SEE FIGURE 9.

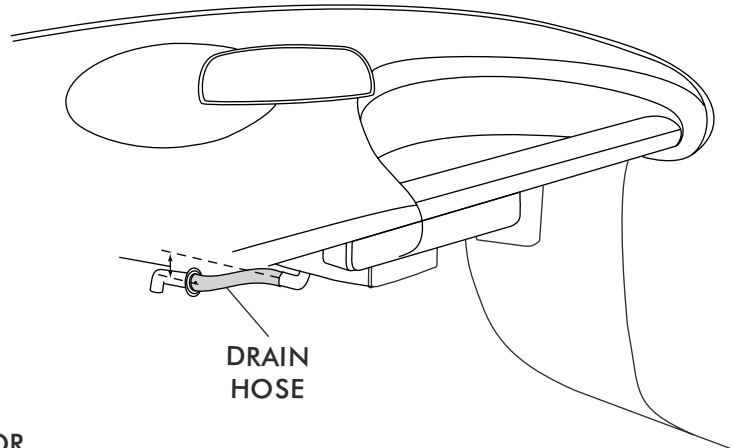
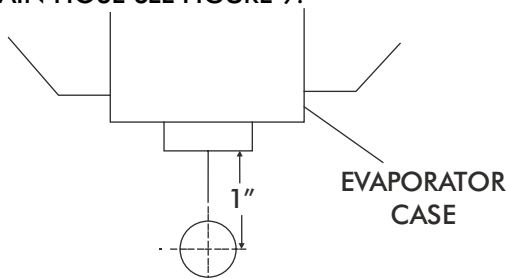


FIGURE 9

LUBRICATING O-RINGS

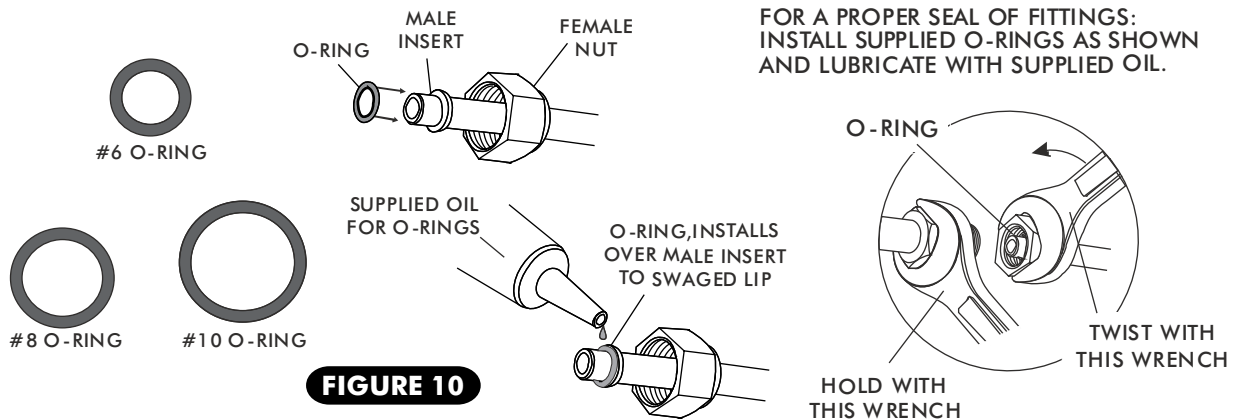


FIGURE 10

A/C HOSE INSTALLATION

STANDARD HOSE KIT

- ☐ LOCATE THE #8 COMPRESSOR A/C HOSE. LUBRICATE (2) #8 O-RINGS (SEE FIGURE 10, ABOVE) AND CONNECT THE 90° FEMALE FITTING TO THE #8 DISCHARGE PORT ON THE COMPRESSOR. ROUTE THE STR FEMALE FITTING w/ 134a SERVICE PORT TO THE #8 CONDENSER HARDLINE COMING THROUGH CORE SUPPORT. SEE FIGURE 11 PAGE 13 AND FIGURE 12 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 10 ABOVE.
- ☐ LOCATE THE #10 COMPRESSOR A/C HOSE. LUBRICATE (2) #10 O-RINGS (SEE FIGURE 10, ABOVE) AND CONNECT THE #10 135° FEMALE FITTING w/134a SERVICE PORT TO THE #10 SUCTION PORT ON THE COMPRESSOR. ROUTE THE 135° FEMALE FITTING TO THE #10 EVAPORATOR. SEE FIGURE 11, PAGE 13 AND FIGURE 12, PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN 10 ABOVE.
- ☐ LOCATE THE #6 EVAPORATOR A/C HOSE. LUBRICATE (2) #6 O-RINGS (SEE FIGURE 10, ABOVE) AND CONNECT THE STR FEMALE FITTING TO THE DRIER. ROUTE THE 90° FEMALE FITTING TO THE #6 EVAPORATOR. SEE FIGURE 11, PAGE 13 AND FIGURE 12, PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 10, ABOVE.

MODIFIED A/C HOSE KIT

- ☐ REFER TO SEPARATE INSTRUCTIONS INCLUDED WITH MODIFIED HOSE KIT.

HEATER HOSE & HEATER CONTROL VALVE INSTALLATION

- ☐ ROUTE A PIECE OF HEATER HOSE FROM THE WATER PUMP TO THE TOP HEATER FITTING OF HEATER CORE AS SHOWN IN FIGURE 7, PAGE 11 AND FIGURE 11 BELOW. SECURE USING HOSE CLAMPS.
NOTE: OEM WATER PUMP OUTLET IS 3/4". A 3/4 x 5/8 REDUCER FITTING IS REQUIRED (NOT SUPPLIED)
- ☐ ROUTE A PIECE OF HEATER HOSE FROM THE INTAKE TO THE BOTTOM HEATER FITTING OF HEATER CORE AS SHOWN IN FIGURE 7, PAGE 11 AND FIGURE 11, BELOW. INSTALL HEATER CONTROL VALVE IN-LINE WITH INTAKE MANIFOLD (PRESSURE SIDE) HEATER HOSE, SECURE USING HOSE CLAMPS AS SHOWN IN FIGURE 11, BELOW. **NOTE PROPER FLOW DIRECTION.**

DRIVER SIDE COMPRESSOR MOUNT AC & HEATER HOSE ROUTING 62 CORVETTE SHOWN

NOTE: OEM WATER PUMP OUTLET IS 3/4". A 3/4 x 5/8 REDUCER FITTING IS REQUIRED (NOT SUPPLIED)

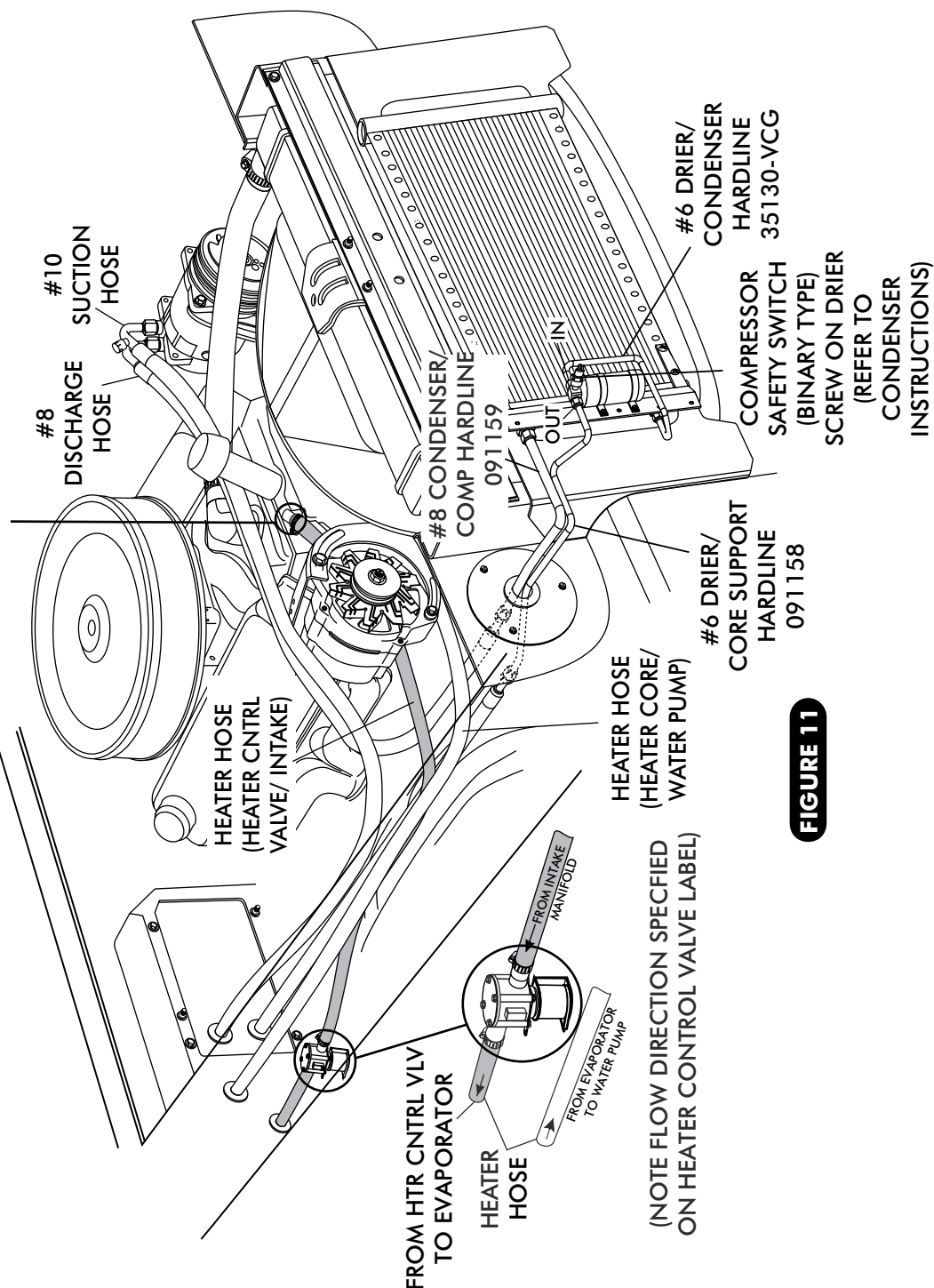


FIGURE 11



PASSENGER SIDE COMPRESSOR MOUNT AC & HEATER HOSE ROUTING 62 CORVETTE SHOWN

NOTE: OEM WATER PUMP OUTLET IS 3/4". A 3/4 x 5/8
REDUCER FITTING IS REQUIRED (NOT SUPPLIED)

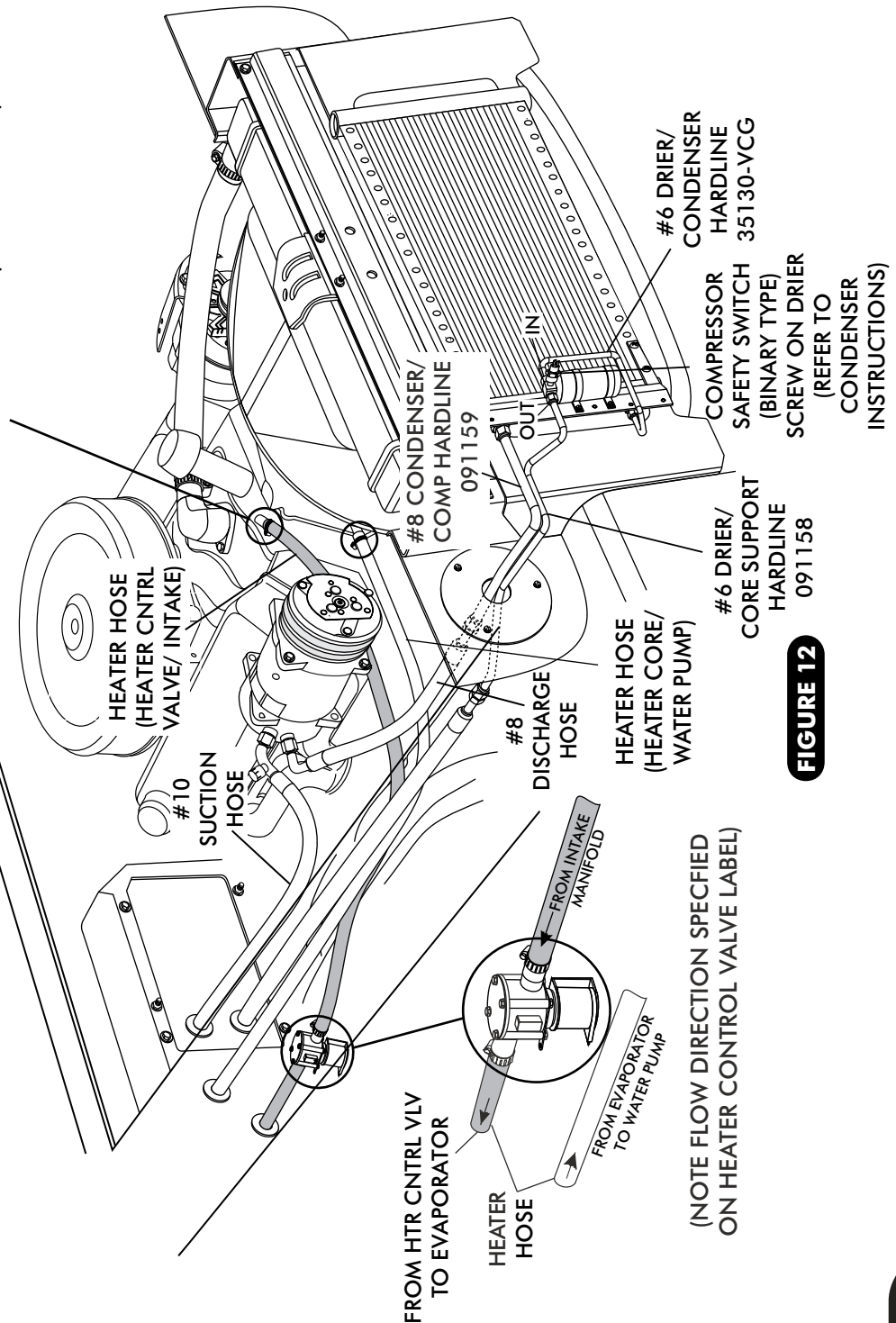


FIGURE 12

HEATER HOSE & HEATER CONTROL VALVE INSTALLATION

- ROUTE A PIECE OF HEATER HOSE FROM THE WATER PUMP TO THE TOP HEATER FITTING OF HEATER CORE AS SHOWN IN FIGURE 7, PAGE 11 AND FIGURE 12 BELOW. SECURE USING HOSE CLAMPS.
NOTE: OEM WATER PUMP OUTLET IS 3/4". A 3/4 x 5/8 REDUCER FITTING IS REQUIRED (NOT SUPPLIED)
- ROUTE A PIECE OF HEATER HOSE FROM THE INTAKE TO THE BOTTOM HEATER FITTING OF HEATER CORE AS SHOWN IN FIGURE 7, PAGE 11 AND FIGURE 12, BELOW. INSTALL HEATER CONTROL VALVE IN-LINE WITH INTAKE MANIFOLD (PRESSURE SIDE) HEATER HOSE, SECURE USING HOSE CLAMPS AS SHOWN IN FIGURE 12, BELOW. **NOTE PROPER FLOW DIRECTION.**



FINAL STEPS

- ☐ INSTALL DUCT HOSES AS SHOWN IN FIGURE 14, PAGE 16.
 - ☐ DRILL 5/8 HOLE FOR GROMMET AS SHOWN BELOW.
 - ☐ ROUTE A/C WIRES THROUGH 3/8 GROMMET AS SHOWN ON FIGURE 13 (12 VOLT/ GROUND/ BINARY SWITCH/ HEATER VALVE).
 - ☐ INSTALL CONTROL PANEL ASM.
 - ☐ PLUG THE WIRING HARNESS IN THE ECU MODULE ON SUB CASE AS SHOWN IN FIGURE 14, PAGE 16 (WIRE ACCORDING TO WIRING DIAGRAM ON PAGE 18 AND 19.)
 - ☐ REINSTALL PASSENGER SIDE UNDER DASH COVER, PACKAGE TRAY. IF EQUIPPED.
 - ☐ REINSTALL KICK PANEL.
 - ☐ REINSTALL ALL PREVIOUSLY REMOVED ITEMS.
- FILL RADIATOR WITH AT LEAST A 50/50 MIXTURE OF APPROVED ANTIFREEZE AND DISTILLED WATER. IT IS THE OWNER'S RESPONSIBILITY TO KEEP THE FREEZE PROTECTION AT THE PROPER LEVEL FOR THE CLIMATE IN WHICH THE VEHICLE IS OPERATED. FAILURE TO FOLLOW ANTIFREEZE RECOMMENDATIONS WILL CAUSE HEATER CORE TO CORRODE PREMATURELY AND POSSIBLY BURST IN AC MODE AND/OR FREEZING WEATHER, VOIDING YOUR WARRANTY.
- ☐ DOUBLE CHECK ALL FITTINGS, BRACKETS AND BELTS FOR TIGHTNESS.
 - ☐ VINTAGE AIR RECOMMENDS THAT ALL AC SYSTEMS BE SERVICED BY A CERTIFIED AUTOMOTIVE AIR CONDITIONING TECHNICIAN.
 - ☐ EVACUATE THE SYSTEM FOR A MINIMUM OF 45 MINUTES PRIOR TO CHARGING AND LEAK CHECK PRIOR TO SERVICING.
 - ☐ CHARGE THE SYSTEM TO THE CAPACITIES STATED ON THE INFORMATION PAGE (PAGE 4) OF THIS INSTRUCTION MANUAL.
 - ☐ SEE OPERATION OF CONTROLS PROCEDURES ON PAGE 20.

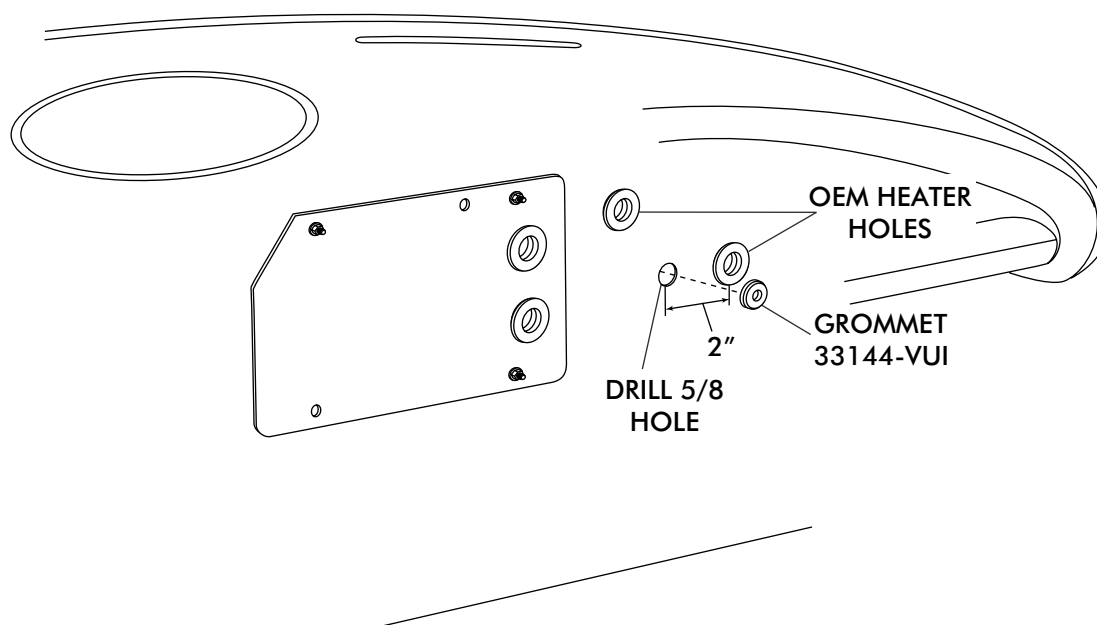


FIGURE 13



CONTROL PANEL & DUCT HOSE ROUTING

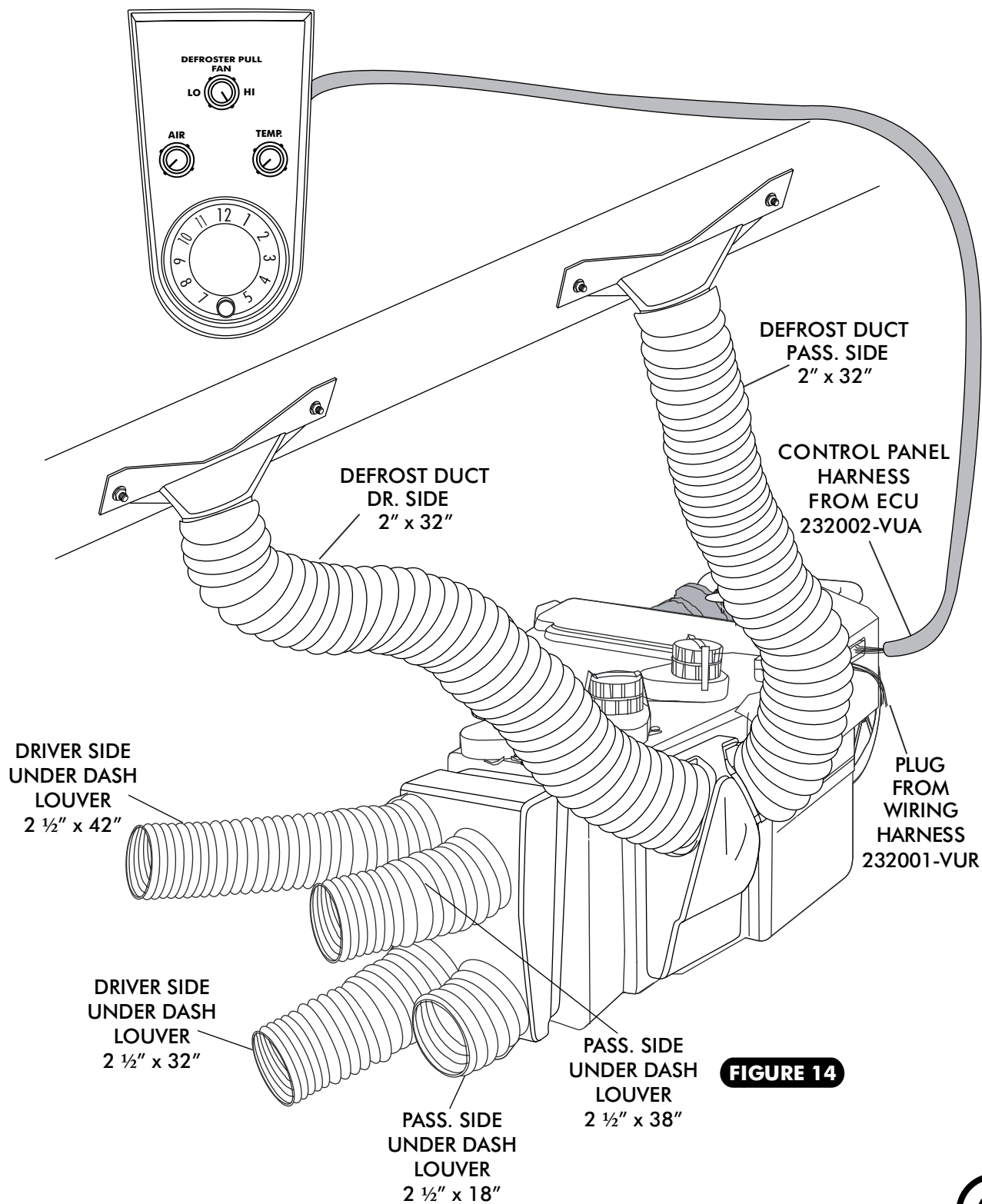
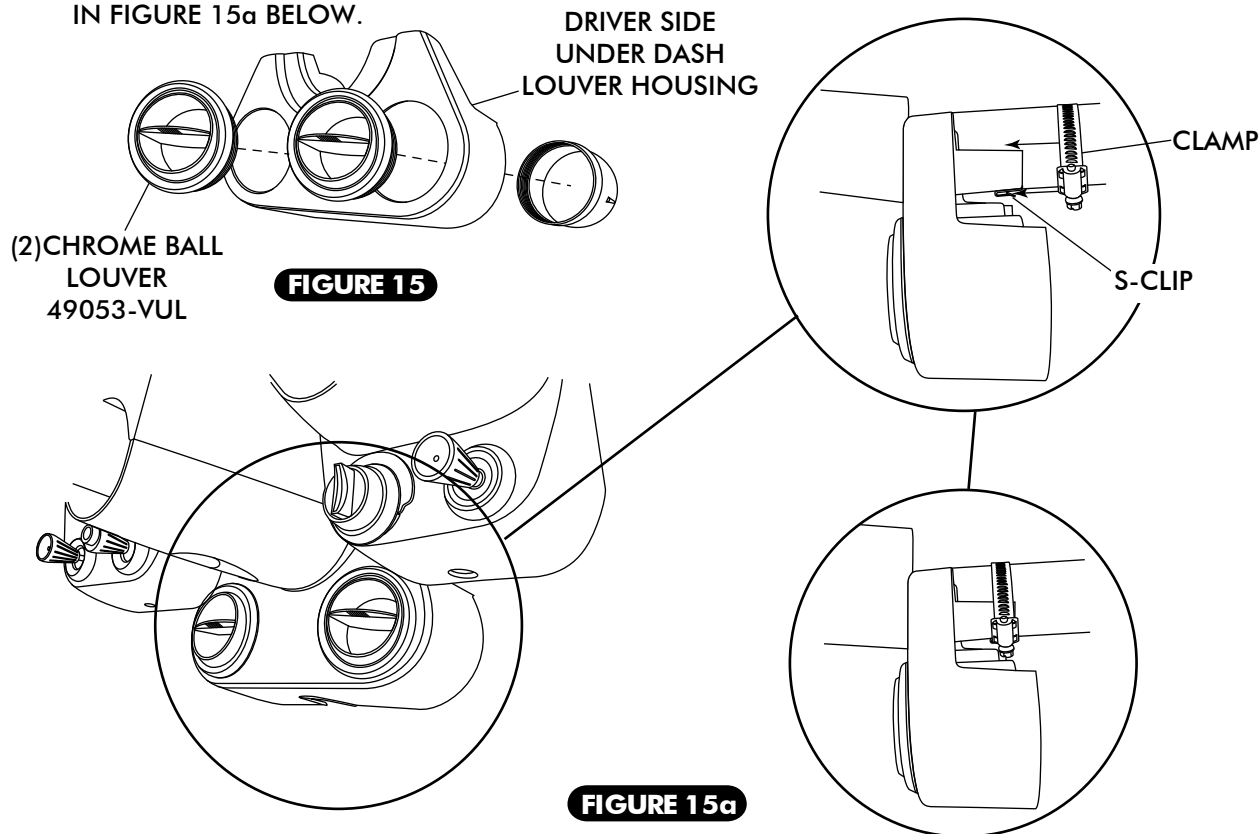


FIGURE 14



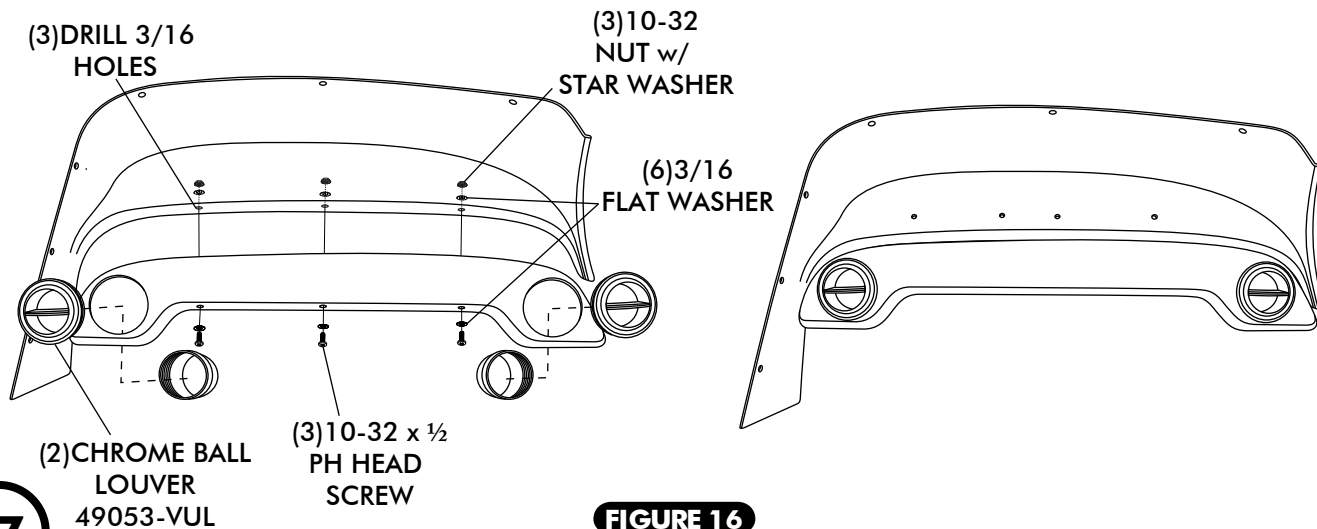
DRIVER SIDE UNDER DASH LOUVER INSTALLATION

- ☐ INSTALL LOUVERS IN DRIVER SIDE UNDER DASH LOUVER HOUSING AS SHOWN IN FIGURE 15.
- ☐ SECURE LOUVER HOUSING TO UNDER DASH STEERING COLUMN USING S-CLIP AND CLAMP AS SHOWN IN FIGURE 15a BELOW.

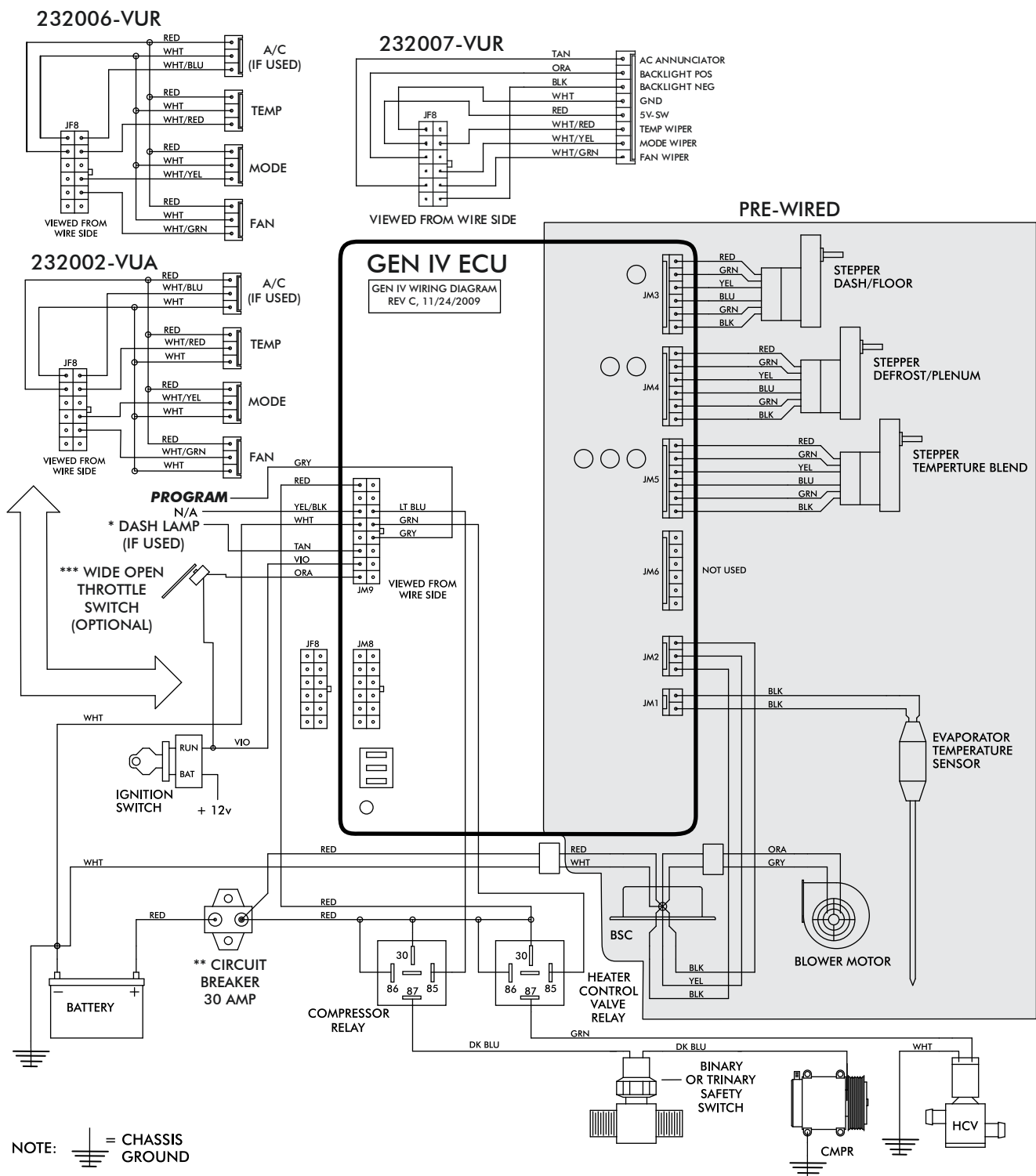


PASSENGER SIDE UNDER DASH LOUVER INSTALLATION

- ☐ LOCATE PASSENGER SIDE UNDER DASH LOUVER HOUSING AND DRILL (3) 3/16 HOLES.
- ☐ SECURE LOUVER HOUSING TO DASH USING (3) 10-32 x 1/2 PH HEAD SCREWS, (6) 3/16 FLAT WASHERS AND (3) 10-32 NUTS w/ STAR WASHERS AS SHOWN IN FIGURE 16 BELOW.
- ☐ INSTALL LOUVERS IN UNDER DASH HOUSING AS SHOWN IN FIGURE 16.



WIRING DIAGRAM

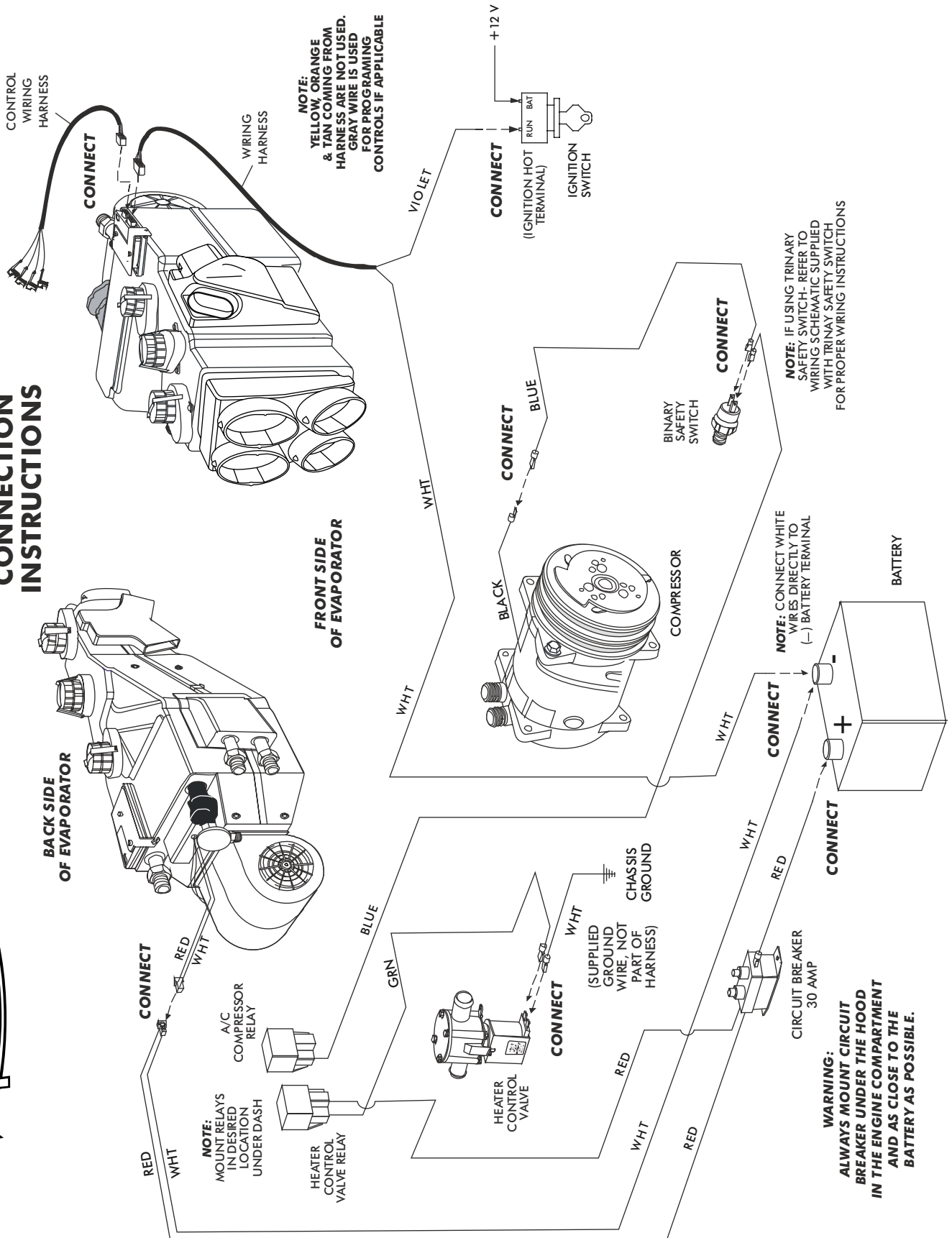


- * DASH LAMP IS ONLY USED WITH TYPE C HARNESS
- ** WARNING: ALWAYS MOUNT CIRCUIT BREAKER UNDER THE HOOD IN THE ENGINE COMPARTMENT AND AS CLOSE TO THE BATTERY AS POSSIBLE.
- *** WIDE OPEN THROTTLE SWITCH CONTACTS CLOSE ONLY AT FULL THROTTLE, WHICH DISABLES AC COMPRESSOR.



GEN IV WIRING CONNECTIONS INSTRUCTIONS

REFER TO CONTROL PANEL INSTRUCTIONS AND PLUG IN ACCORDINGLY





OPERATION OF CONTROLS

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 TEMPERATURE.

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.

BLOWER SPEED

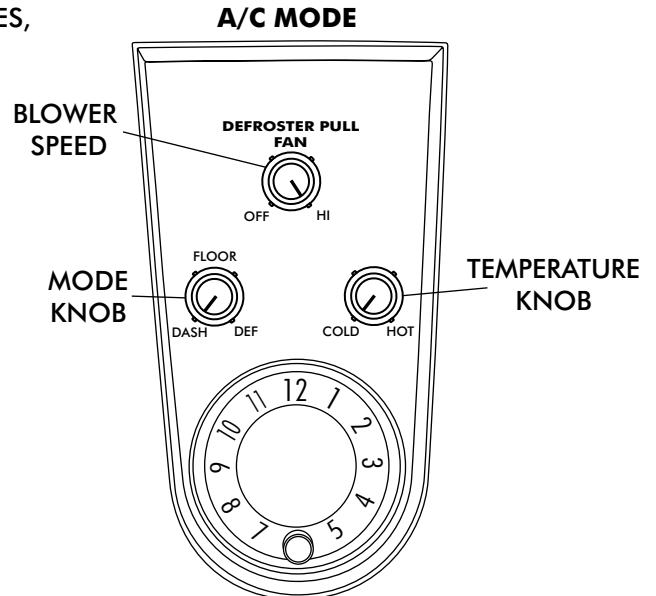
THIS KNOB CONTROLS THE BLOWER SPEED, FROM OFF TO HI

MODE KNOB

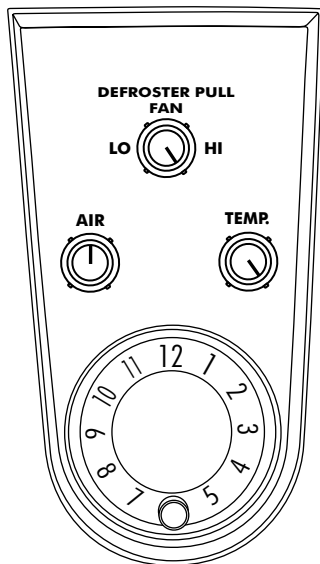
ROTATE THE KNOB TO THE LEFT TO DIRECT AIR FLOW TO THE DASH VENTS

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



BLOWER SPEED

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

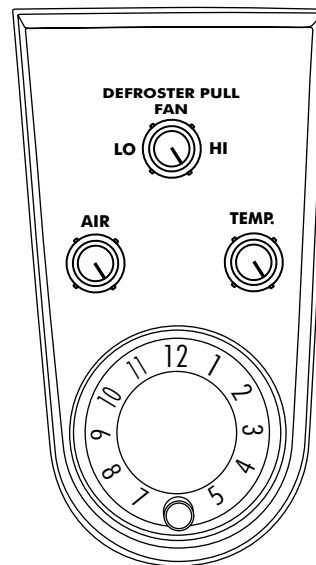
MODE KNOB

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 POSITION. (ROTATE KNOB LEFT OR RIGHT TO ADJUST DESIRED TEMPERATURE)

DEFROST/ DE-FOG MODE



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)



TROUBLE SHOOTING INFORMATION

SYMPTOM	CONDITION	CHECKS	ACTIONS	NOTES
1. BLOWER STAYS ON HIGH SPEED WHEN IGNITION IS ON	NO OTHER FUNCTIONS WORK	CHECK FOR DAMAGED PINS OR WIRES IN CONTROL HEAD PLUG. CHECK FOR DAMAGED GROUND WIRE (WHITE) IN CONTROL HEAD HARNESS.	VERIFY ALL PINS ARE INSERTED INTO PLUG. INSURE NO PINS ARE BENT OR DAMAGES IN ECU VERIFY CONTINUITY TO CHASSIS GROUND WITH WHITE CONTROL HEAD WIRE AT VARIOUS POINTS	LOSS OF GROUND ON THIS WIRE RENDER CONTROL HEAD IN OPERABLE
	ALL OTHER FUNCTIONS WORK	CHECK FOR DAMAGED BLOWER SWITCH OR POT AND ASSOCIATED WIRING. UNPLUG 3 WIRE BSC CONTROL CONNECTOR FROM ECU. IF BLOWER SHUTS OFF, ECU IS EITHER IMPROPERLY WIRED, OR DAMAGED.	BE SURE SMALL, 20 GA WHITE GROUND WIRE IS CONNECTED TO THE BATTERY GROUND POST. IF IT IS, REPLACE ECU. CHECK TO INSURE THAT NO BSC WIRING IS DAMAGED OR SHORTED TO VEHICLE GROUND. THE BSC OPERATES THE BLOWER BY GROUND. THE BSC OPERATES THE BLOWER BY GROUND SIDE PWM SWITCHING. THE POSITIVE WIRE TO THE BLOWER WILL ALWAYS BE HOT. IF THE "GROUND" SIDE OF THE BLOWER IS SHORTED TO CHASSIS GROUND, THE BLOWER WILL RUN ON HI.	SEE BLOWER SWITCH CHECK PROCEDURE
BLOWER STAYS ON HIGH SPEED WHEN IGNITION IS ON OR OFF		UNPLUG 3 WIRE BSC CONTROL CONNECTOR FROM ECU. IF BLOWER STAYS RUNNING, THE BSC IS EITHER IMPROPERLY WIRED, OR DAMAGED.	REPLACE BSC. (THIS WILL REQUIRE EVAPORATOR TO BE REMOVED FROM VEHICLE)	NO OTHER PART REPLACEMENTS SHOULD BE NECESSARY

2. COMPRESSOR WILL NOT TURN ON (ALL OTHER FUNCTIONS WORK)	SYSTEM IS NOT CHARGED	SYSTEM MUST BE CHARGED FOR COMP. TO ENGAGE	CHARGE SYSTEM OR BYPASS PRESSURE SWITCH.	DANGER- NEVER BYPASS SAFETY SWITCH WITH ENGINE RUNNING, SERIOUS INJURY CAN RESULT. TO CHECK FOR PROPER POT FUNCTION, CHECK VOLTAGE AT WHITE/ BLUE WIRE. VOLTAGE SHOULD BE BETWEEN 0 AND 5V, AND WILL VARY WITH POT LEVER POSITION.
		CHECK FOR FAULTY A/C POT OR ASSOC. WIRING (NOT APPLICABLE TO 3 POT CONTROLS	CHECK CONTINUITY TO GROUND ON WHITE CONTROL HEAD WIRE. CHECK FOR 5V ON RED CONTROL HEAD WIRE.	DISCONNECTED OR FAULTY THERMISTOR WILL CAUSE COMPRESSOR TO BE DISABLED.
		CHECK FOR DISCONNECTED OR FAULTY THERMISTOR.	CHECK TWO PIN CONNECTOR AT ECU HOUSING	

3. COMPRESSOR WILL NOT TURN OFF (ALL OTHER FUNCTIONS WORK)		CHECK FOR FAULTY A/C POT OR ASSOC. WIRING	REPAIR/REPLACE POT/ CONTROL WIRING	RED WIRE @ A/C POT SHOULD HAVE APPROX. 5V WITH IGNITION ON. WHITE WIRE WILL HAVE CONTINUITY TO CHASSIS GROUND. WHITE/ BLUE WIRE SHOULD VARY BETWEEN 0V AND 5V WHEN LEVER IS MOVED UP AND DOWN.
		CHECK FOR FAULTY A/C RELAY	REPLACE RELAY	



TRUBLE SHOOTING INFORMATION CONT.

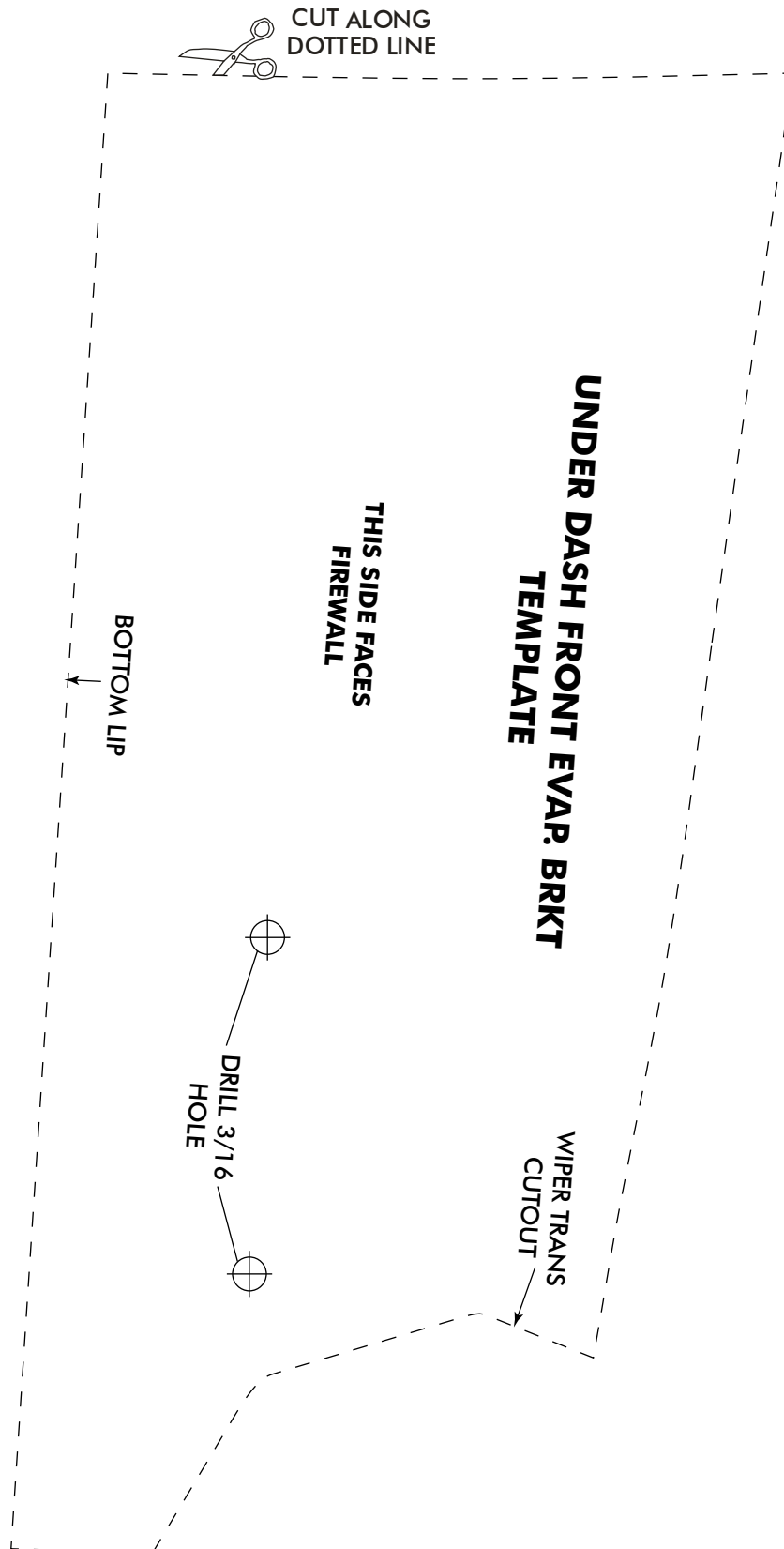
4. SYSTEM WILL NOT TURN ON OR RUNS INTERMITTENTLY	WORKS WHEN ENGINE IS NOT RUNNING, SHUTS OFF WHEN ENGINE IS STARTED. (TYPICALLY EARLY GEN 4, BUT POSSIBLE ON ALL VERSIONS)	NOISE INTERFERENCE FROM EITHER IGNITION OR ALTERNATOR	INSTALL CAPACITORS ON IGN. COIL, AND ALTERNATOR. ENSURE GOOD GROUND AT ALL POINTS. RELOCATE COIL AND ASSOCIATED WIRING AWAY FROM ECU AND ECU WIRING. CHECK FOR BURNED OR LOOSE PLUG WIRES.	IGNITION NOISE (RADIATED OR CONDUCTED) WILL CAUSE THE SYSTEM TO SHUT DOWN DUE TO HIGH VOLTAGE SPIKES. IF THIS IS SUSPECTED, CHECK WITH A QUALITY OSCILLOSCOPE SPIKES GREATER THAN 16V WILL SHUT DOWN ECU. INSTALL A RADIO CAPACITOR AT THE POSITIVE POST OF THE IGNITION COIL (SEE RADIO CAPACITOR INSTALLATION BULLETTIN). A FAULTY ALTERNATOR OR WORN OUT BATTERY CAN ALSO RESULT IN THIS CONDITION FOR ALTERNATOR REGULATOR TO FUNCTION PROPERLY.
	WILL NOT TURN ON UNDER ANY CONDITIONS	VERIFY CONNECTIONS ON POWER LEAD, IGNITION LEAD, AND BOTH WHITE GROUND WIRES	CHECK FOR POSITIVE POWER AT HEATER VALVE GREEN WIRE AND BLOWER RED WIRE. CHACK FOR GROUND ON CONTROL HEAD WHITE WIRE	
		VERIFY BATTERY VOLTAGE IS GREATER THAN 10 VOLTS AND LESS THAN 16.	VERIFY PROPER METER FUNCTION BY CHECKING A KNOWN GOOD BATTERY'S VOLTAGE.	

5. LOSS OF MODE DOOR FUNCTION	NO MODE CHANGE AT ALL	CHECK FOR DAMAGED MODE SWITCH OR POT AND ASSOCIATED WIRING		
	PARTIAL FUNCTION OF MODE DOORS	CHECK FOR OBSTRUCTED OR BINDING MODE DOORS		TYPICALLY CAUSED BY EVAPORATOR HOUSING INSTALLED IN A BLIND IN THE VEHICLE. BE SURE ALL MOUNTING LOCATIONS LINE UP AND DON'T HAVE TO BE FORCED INTO POSITION.
		CHECK FOR DAMAGED STEPPER MOTOR OR WIRING		

6. BLOWER TURNS ON AND OFF RAPIDLY	BATTERY VOLTAGE IS AT LEAST 12V	CHECK FOR AT LEAST 12V BETWEEN GREEN HEATER VALVE WIRE AND CHASSIS GROUND.	INSURE ALL SYSTEM GROUNDS AND POWER CONNECTION ARE CLEAN AND TIGHT.	
	BATTERY VOLTAGES IS LESS THAN 12V	CHECK FOR FAULTY BATTERY OR ALTERNATOR	CHARGE BATTERY	SYSTEM SHUTS OFF BLOWER AT 10V. POOR CONNECTIONS OR WEAK BATTERY CAN CAUSE SHUT DOWN AT UP TO 11V

7. ERATIC FUNCTIONS OF BLOWER, MODE, TEMP ETC.		CHECK FOR DAMAGED SWITCH OR POT AND ASSOCIATED WIRING	REPAIR OR REPLACE	
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8. WHEN THE IGNITION IS TURNED ON, THE BLOWER MOMENTARILY COMES ON, THEN SHUTS OFF. THIS IS WITH THE BLOWER SWITCH IN THE OFF POSITION		THIS IS AN INDICATOR THAT THE SYSTEM HAS BEEN RESET. BE SURE THE RED POWER WIRE IS ON THE BATTERY POST AND NOT ON A SWITCHED SOURCE. ALSO, IF THE SYSTEM IS PULLED BELOW 7V EVEN FOR A SPLIT SECOND, THE SYSTEM WILL RESET.	RUN RED POWER WIRE DIRECTLY TO BATTERY	
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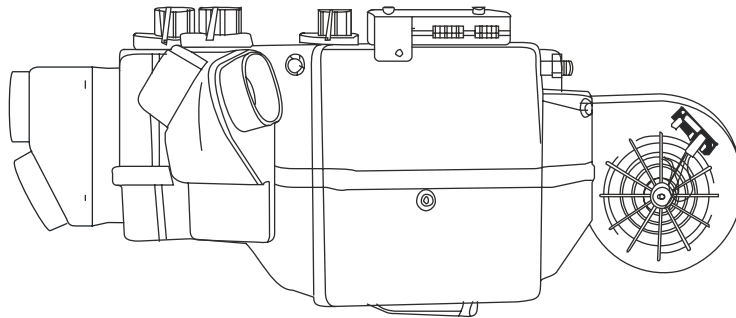
EVAPORATOR KIT PACKING LIST

EVAPORATOR KIT
561059

No.	QTY.	PART No.	DESCRIPTION	
1.	1	744008	GEN IV 4 VENT EVAP SUB CASE w/ 204 ECU	_____
2.	1	781059	ACC. KIT 58-60 CORVETTE	_____

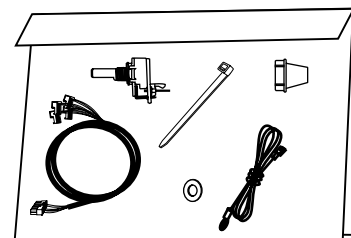
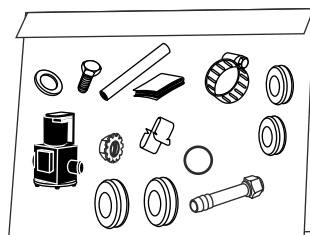
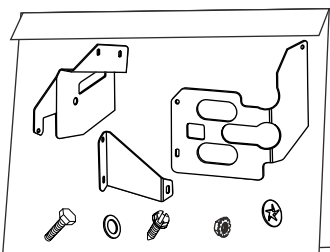
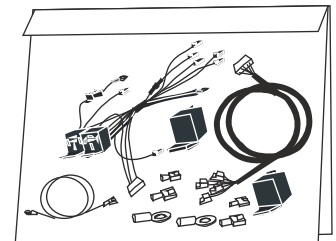
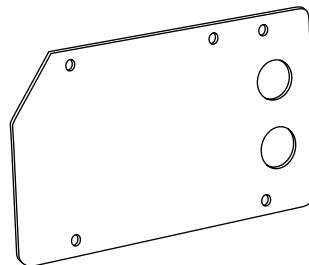
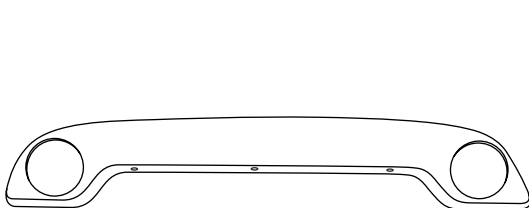
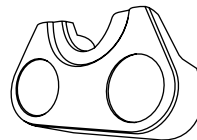
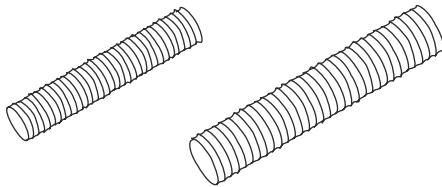
CHECK BY: _____
PACKED BY: _____
DATE: _____

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**GEN IV 4 VENT
EVAP SUB CASE
w/ 204 ECU
744008**

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**ACCESSORY KIT
781059**

**NOTE: IMAGES MAY NOT DEPICT ACTUAL PARTS AND QUANTITIES.
REFER TO PACKING LIST FOR ACTUAL PARTS AND QUANTITIES.**