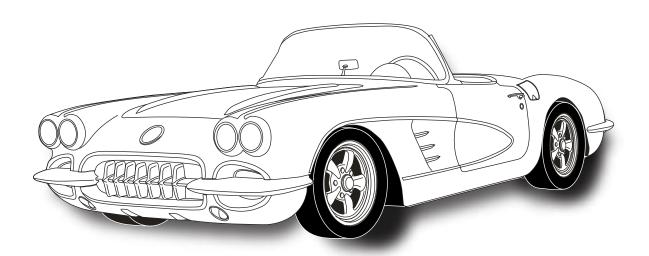


1961-62 CORVETTE

561060



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



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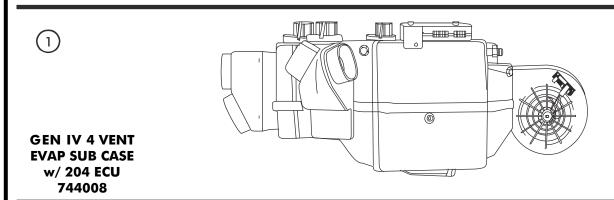


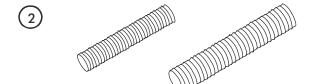
EVAPORATOR KIT PACKING LIST

EVAPORATOR KIT 561060

No.	QTY.	PART No.	DESCRIPTION	
1. 2.	1 1	744008 781062	GEN IV 4 VENT EVAP SUB CASE w/ 204 ECU ACC KIT 61-62 CORVETTE	

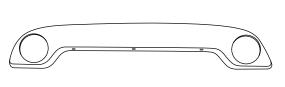
** BEFORE BEGINNING INSTALLATION OPEN ALL PACKAGES AND CHECK CONTENTS OF SHIPMENT. PLEASE REPORT ANY SHORTAGES DIRECTLY TO VINTAGE AIR WITHIN 15 DAYS. AFTER 15 DAYS, VINTAGE AIR WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED ITEMS.

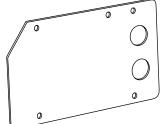


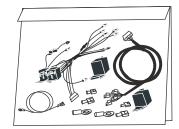


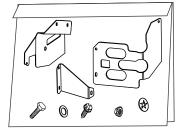


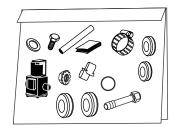


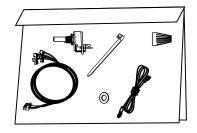












ACCESSORY KIT 781062

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 <u>UNDER PRESSURE WITH DRY NITROGEN</u>; 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! <u>USE OF ANY OTHER REFRIGERANTS RISKS A DANGER OF FIRE</u>
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.

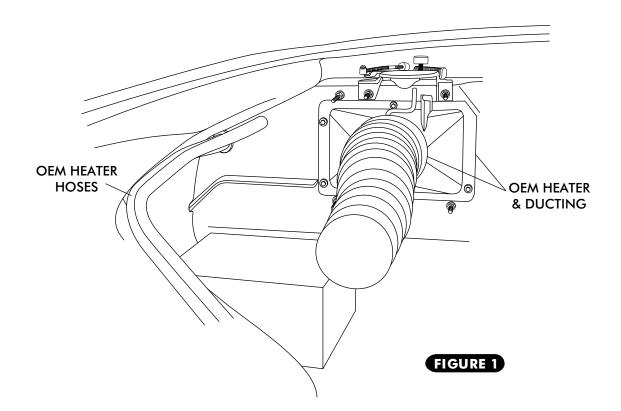


BEFORE STARTING THE INSTALLATION, CHECK THE FUNCTION OF THE VEHICLE (HORN, LIGHTS,ETC.) FOR PROPER OPERATIONS. STUDY THE INSTRUCTIONS, ILLUSTRATIONS, & DIAGRAMS.

ENGINE COMPARTMENT-

REMOVE THE FOLLOWING

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





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.
- □ NOTE: RADIATOR EXPANSION TANK MUST BE RELOCATED FOR AC BRKT OR ALT BRKT INSTALLATION. **VINTAGE AIR RELOCATION BRACKET KIT #154730. (AVAILABLE SEPARATELY)**

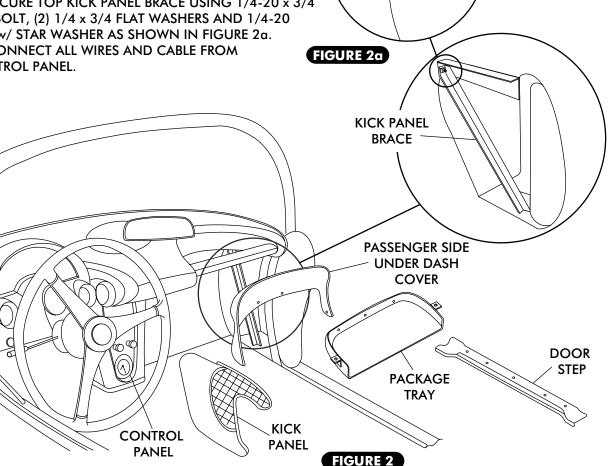
NUT w/

STAR WASHER

PASSENGER COMPARTMENT—

1/4-20 x 3/4 **TOP KICK** $(2)1/4 \times 3/4$ **REMOVE THE FOLLOWING:** HEX BOLT / PANEL BRACE > **FLAT WASHER** ☐ PACKAGE TRAY. IF EQUIPPED (RETAIN). SEE FIGURE 2 ☐ PASSENGER SIDE UNDER DASH COVER (RETAIN). 1/4-20

- ☐ DOOR STEP. (RETAIN). ☐ KICK PANEL (RETAIN).
- ☐ KICK PANEL BRACE (DISCARD).
- ☐ RE-SECURE 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.





KICK PANEL MODIFICATION-

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

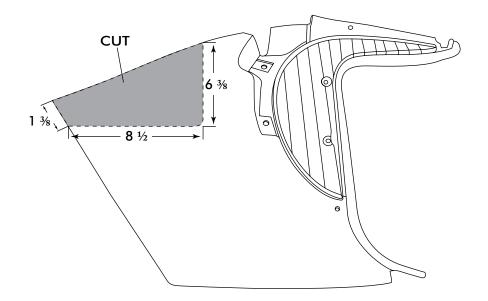
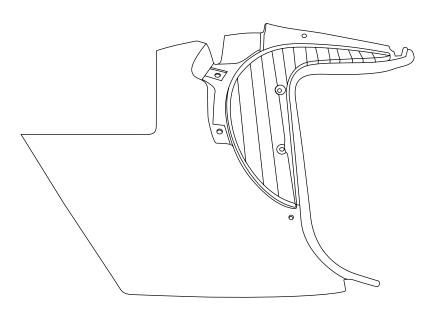


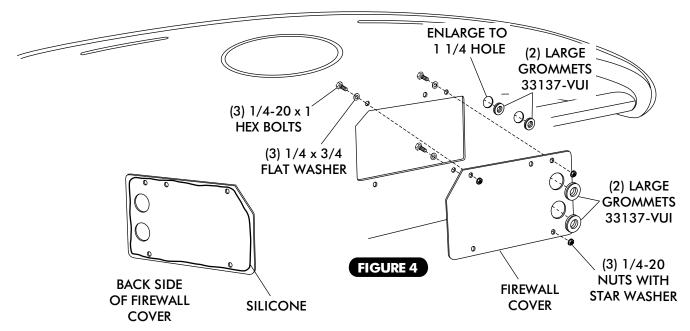
FIGURE 3





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.



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.)**

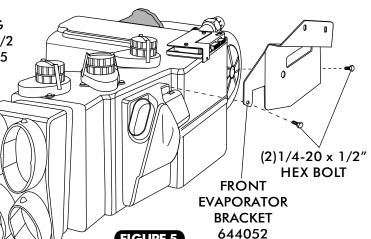
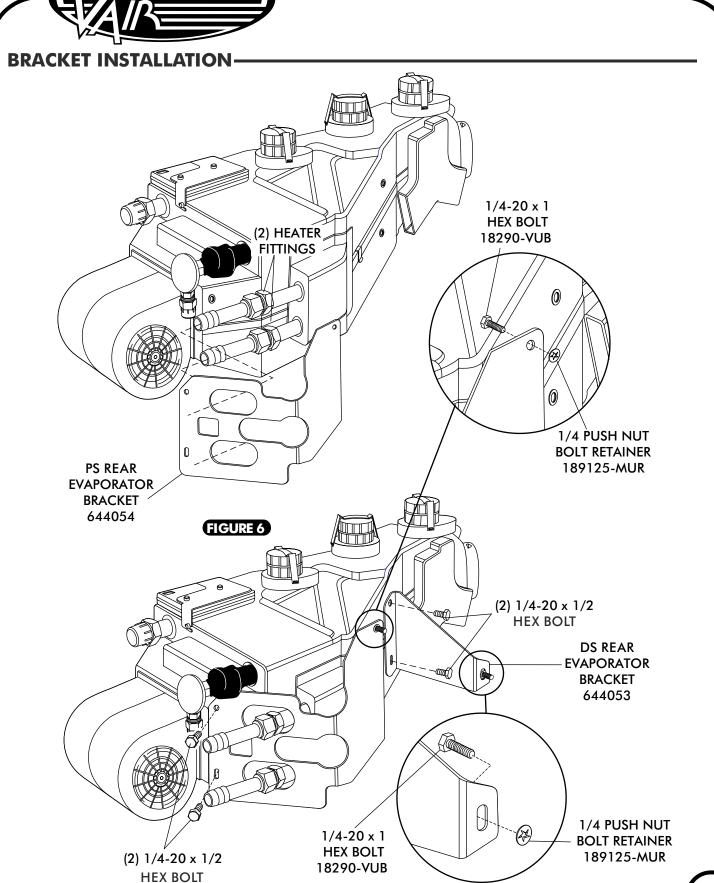


FIGURE 5

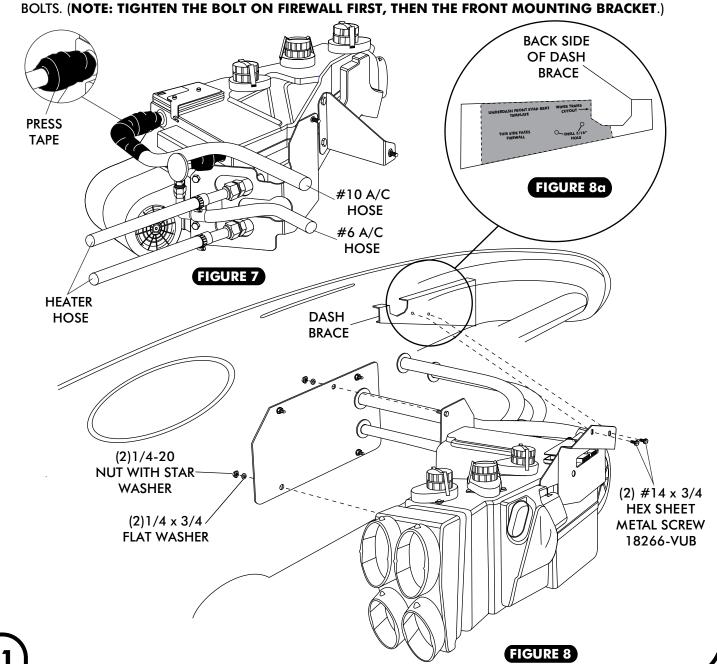






EVAPORATOR INSTALLATION CONT.-

- □ 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.)

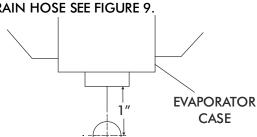


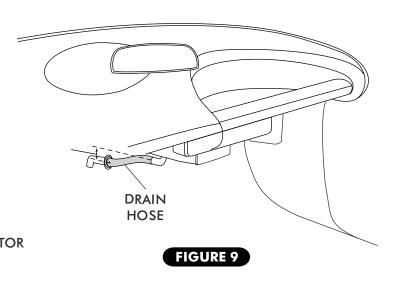
901047 REV A 11/1/10, 61-62 CORVETTE EVAP INST PG 11 OF 24



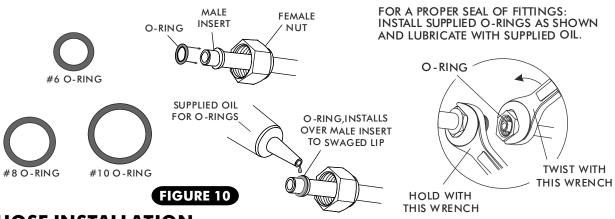
DRAIN HOSE INSTALLATION

- ☐ 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.





LUBRICATING O-RINGS



A/C HOSE INSTALLATION -

STANDARD HOSE KIT

- UCCATE 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/ 134α 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/134α 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.

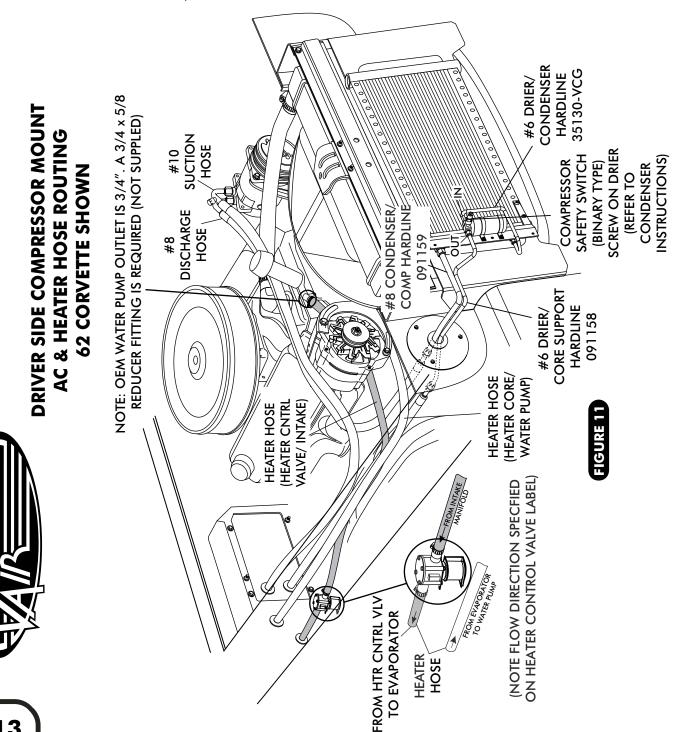
MODIFIED A/C HOSE KIT -

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**.

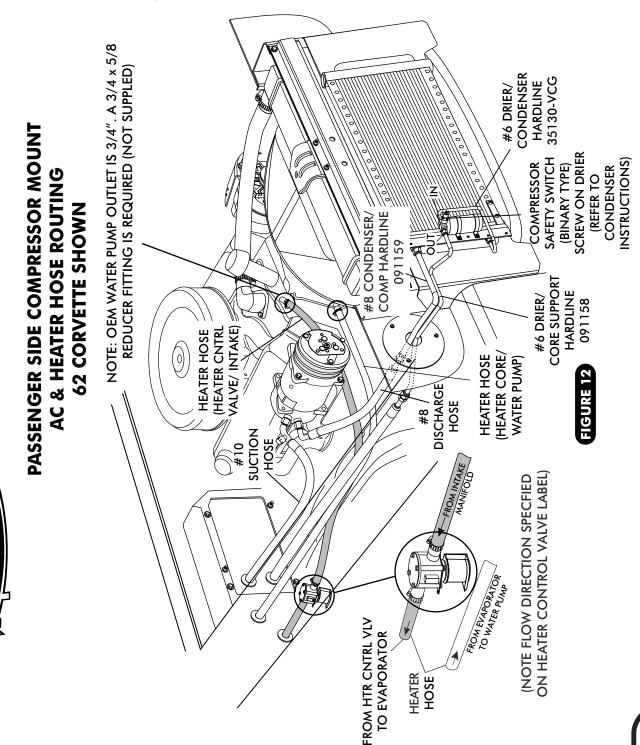


901047 REV A 11/1/10, 61-62 CORVETTE EVAP INSTR PG 13 OF 24

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**.



901047 REV A 11/1/10, 61-62 CORVETTE EVAP INSTR PG 14 OF 24



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 GROMMENT 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.
CEE ODED ATION OF CONTROLS DROCEDINES ON DACE 20

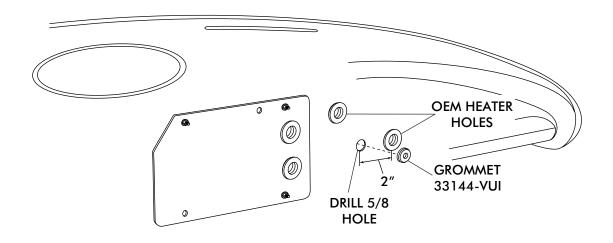
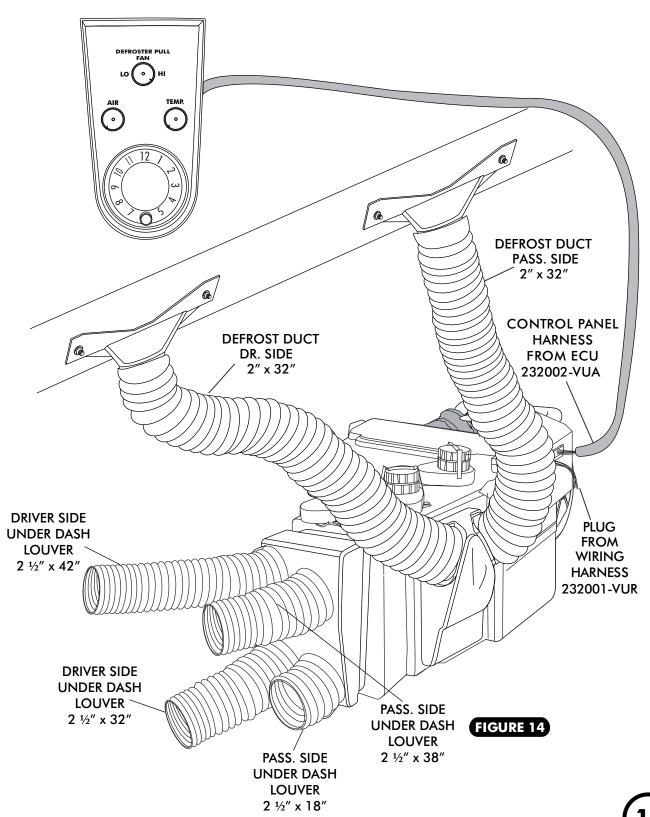


FIGURE 13



CONTROL PANEL & DUCT HOSE ROUTING-





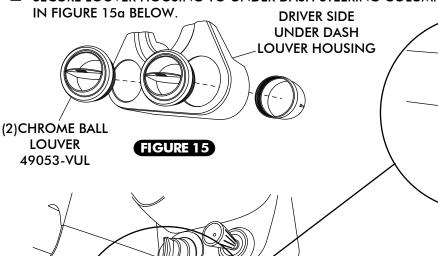
DRIVER SIDE UNDER DASH LOUVER INSTALLATION -

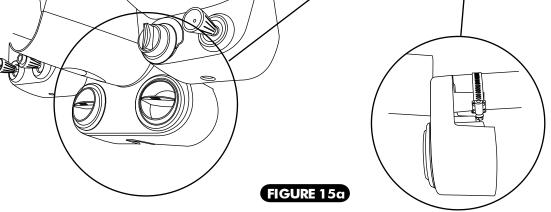
☐ INSTALL LOUVERS IN DRIVER SIDE UNDER DASH LOUVER HOUSING AS SHOWN IN FIGURE 15.



CLAMP

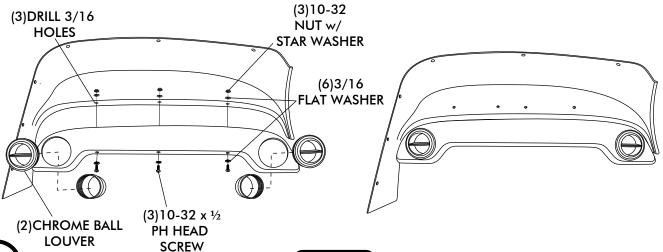
S-CLIP





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.

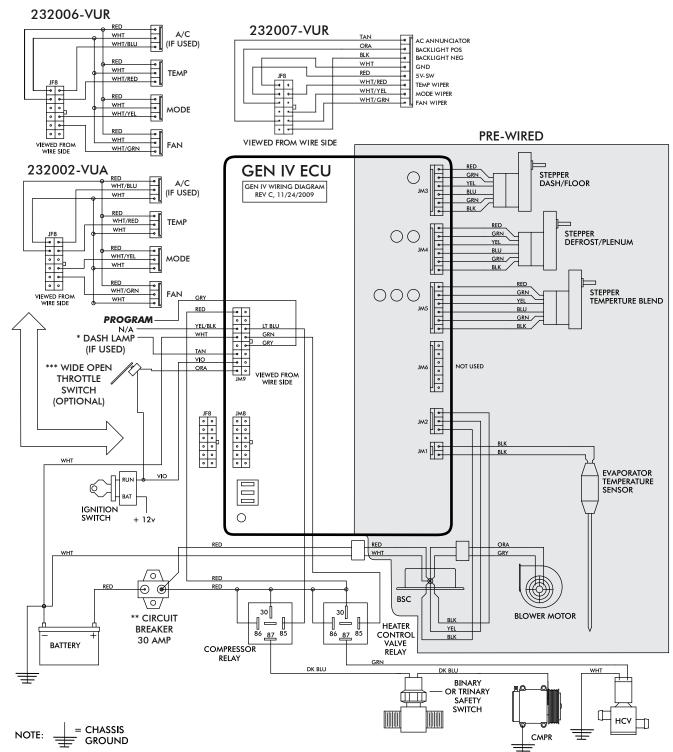


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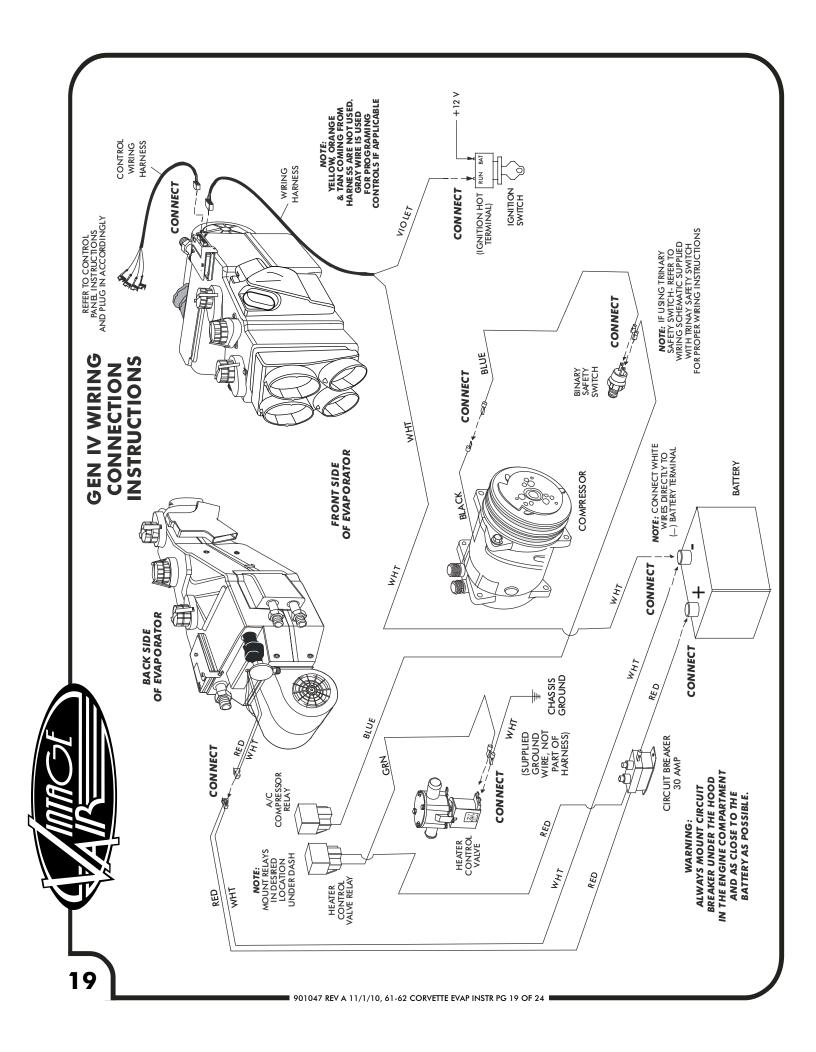
FIGURE 16



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.





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 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.

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)

BLOWER SPEED DEFROSTER PULL FAIN OFF HI TEMPERATURE

0

KNOB

A/C MODE

DEFROST/ DE-FOG

MODE

DEFROSTER PULL FAN

TEMP.

0

KNOB

DEFROSTER PULL FAN LO O HI AIR TEMP

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



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.	DAMAGED PINS OR WIRES IN CONTROL VERIFY ALL PINS ARE INSERTED INTO PLUG. INSURE NO PINS ARE BENT OR DAMAGES IN ECU.	
		CHECK FOR DAMAGED GROUND WIRE (WHITE) IN CONTROL HEAD HARNESS.	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.		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 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.	
		UNPLUG 3 WIRE BSC CONTROL CONNECTOR FROM ECU. IF BLOWER STAY'S RUNNING, THE BSC IS EITHER IMPROPERLY WIRED, OR DAMAGED.	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. REPLACE BSC. (THIS WILL REQUIRE EVAPORATOR TO BE REMOVED FROM VEHICLE.)	NO OTHER PART REPLACEMENTS SHOULD BE NECESSARY

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 VAR WITH POT LEVER POSTION.	DISCONNECTED OR FAULTY THERMISTOR WILL CAUSE COMPRESSOR TO BE DISABLED.
CHARGE SYSTEM OR BYPASS PRESSURE SWITCH.	CHECK CONTINUITY TO GROUND ON WHITE CONTROL HEAD WIRE. CHECK FOR 5V ON RED CONTROL HEAD WIRE.	CHECK TWO PIN CONNECTOR AT ECU HOUSING
SYSTEM MUST BE CHARGED FOR COMP. TO ENGAGE	CHECK FOR FAULTY A/C POT OR ASSOC. WIRING (NOT APPLICABLE TO 3 POT CONTROLS	CHECK FOR DISCONNECTED OR FAULTY THERMISTOR.
SYSTEM IS NOT CHARGED		
2. COMPRESSOR WILL NOT TURN ON (ALL OTHER FUNCTIONS WORK)		

OC. WIRING REPAIR/REPLACE POT/ CONTROL WIRING V					_
HECK FOR FAULTY A/C RELAY	ESS WILL NOT TURN L OTHER FUNCTIONS	ш.	REPAIR/REPLACE POT/ CONTROL WIRING	RED WIRE @ A/C POT SHOULD HAVE APPROX. 5V WITH KONITION ON. WHITE WIRE WILL HAVE CONTINUITY TO CHASSIS GROUND, WHITE/ BLUE WIRE SHOULD VARY BETWEEN OY AND 5V WHEN LEVER IS MOVED UP AND DOWN.	
		CHECK FOR FAULTY A/C RELAY	REPLACE RELAY		



TROUBLE SHOOTING INFORMATION CONT.

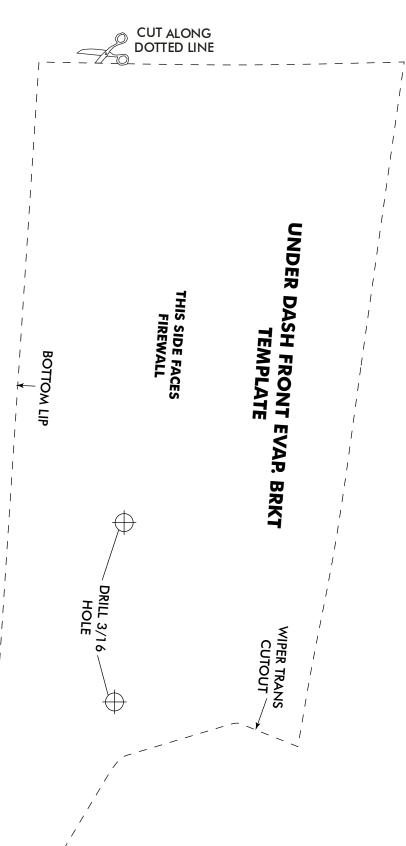
IGNITION NOISE (RADIATED OR CONDUCTED) WILL CAUSE THE SYSTEM TO SHUT DOWN DUE TO HIGH VOLIAGE SPIKES. IF THIS IS SUSPECTED, CHECK WITH A QUALITY OSCILISCOPE SPIKES GREATER THAN 16V WILL SHUT DOWN ECU. INSTALL A RADIO CAPACITOR AT THE POSITIVE POST OF THE IGNITION COIL (SEE RADIO CAPACITOR INSTALLATION BULLETEN. A FAULTY ALTERNATOR OR WORN OUT BATTERY CAN ALSO RESULT IN THIS CONDITION FOR ALTERNATOR REGULATOR TO FUNCTION PROPERLY.				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.			SYSTEM SHUTS OFF BLOWER AT 10Y. POOR CONNECTIONS OR WEAK BATTERY CAN CAUSE SHUT DOWN AT UP TO 11V	
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.	CHECK FOR POSITIVE POWER AT HEATER VALVE GREEN WIRE. AND BLOWER RED WIRE. CHACK FOR GROUND ON CONTROL HEAD WHITE WIRE	VERIFY PROPER METER FUNCTION BY CHECKING A KNOWN GOOD BATTERYS VOLTAGE.				INSURE ALL SYSTEM GROUNDS AND POWER CONNECTION ARE CLEAN AND TIGHT.	CHARGE BATTERY	REPAIR OR REPLACE
NOISE INTERFERENCE FROM EITHER IGNITION OR ALTERNATOR	VERIFY CONNECTIONS ON POWER LEAD, IGNITION LEAD, AND BOTH WHITE GROUND WIRES	VERIFY BATTERY VOLTAGE IS GREATER THAN 10 VOLTS AND LESS THAN 16.	CHECK FOR DAMAGED MODE SWITCH OR POT AND ASSOCIATED WIRING	CHECK FOR OBSTRUCTED OR BINDING MODE DOORS	CHECK FOR DAMAGED STEPPER MOTOR OR WIRING	CHECK FOR AT LEAST 12V BETWEEN GREEN HEATER VALVE WIRE AND CHASSIS GROUND.	CHECK FOR FAULTY BATTERY OR ALTERNATOR	CHECK FOR DAWAGED SWITCH OR POT AND ASSOCIATED WIRING
WORKS WHN ENGINE IS NOT RUNNING, SHUTS OFF WHEN ENGINE IS STARED. (TYPICALLY EARLY GEN 4, BUT POSSIBLE ON ALL VERSIONS)	WILL NOT TURN ON UNDER ANY CONDITIONS		NO MODE CHANGE AT ALL	PARTIAL FUNCTION OF MODE DOORS		BATTERY VOLTAGE IS AT LEAST 12V.	BATTERY VOLTAGES IS LESS THAN 12V	
4. SYSTEM WILL NOT TURN ON OR RUNS INTERMITTENLY			5. LOSS OF MODE DOOR FUNCTION			6. BLOWER TURNS ON AND OFF RAPIDLY		7. ERATIC FUNCTIONS OF BLOWER, MODE , TEMP, ETC.

RUN RED POWER WIRE DIRECTLY TO BATTERY

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 SOUNCE. ALSO, IF THE SYSTEM IS PULLED BELOW TY EVEN FOR A SPLIT SECOND, THE SYSTEM WILL RESET.

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







EVAPORATOR KIT PACKING LIST

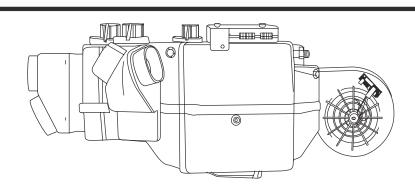
EVAPORATOR KIT 561060

No.	QTY.	PART No.	DESCRIPTION	
1.	1	744008	GEN IV 4 VENT EVAP SUB CASE w/ 204 ECU	
2.	1	781062	ACC. KIT 61-62 CORVETTE	

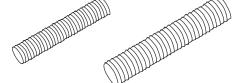
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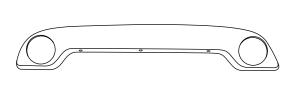


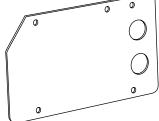


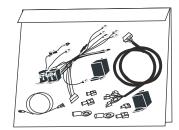


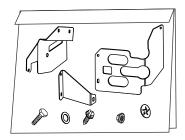


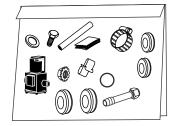


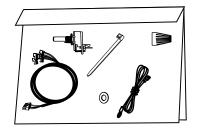












ACCESSORY KIT 781062 NOTE: IMAGES MAY NOT DEPICT ACTUAL PARTS AND QUANTITIES.
REFER TO PACKING LIST FOR ACTUAL PARTS AND QUANTITIES.