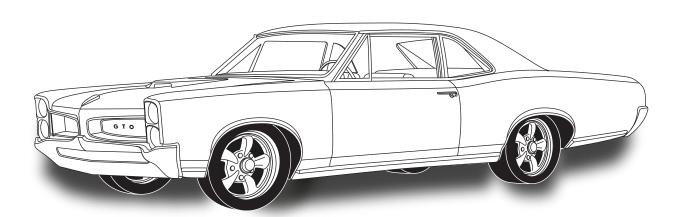


an ISO 9001: 2008 Registered Company

1964-67 GTO WITH A/C 564467



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



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EVAPORATOR KIT PACKING LIST

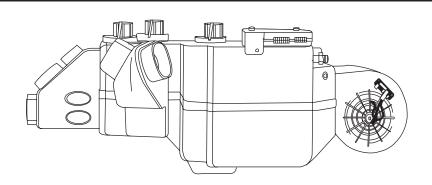
EVAPORATOR KIT 564467

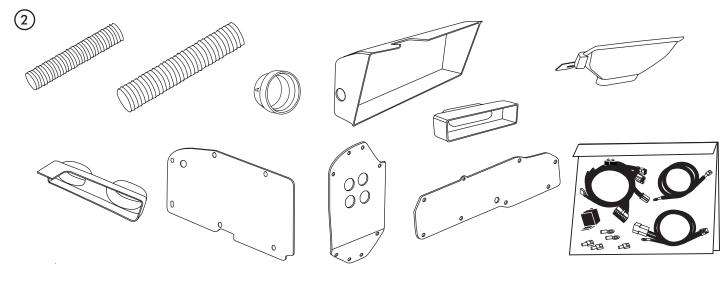
NO.	QTY. P	ART NO.	DESCRIPTION
1.	1 7	44002	GEN IV 6 VENT EVAP. SUB CASE w/ 207 ECU
2.	1 7	84158	1964-67 GTO w AC ACC. KIT

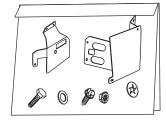
** BEFORE BEGINNING INSTALLATION OPEN ALL PACKAGES AND CHECK CONTENTS OF SHIPMENT. PLEASE REPORT ANY SHORTAGES DIRECTLY TO VINTAGE AIR WITHIN 15 DAYS. AFTER 15 DAYS, VINTAGE AIR WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED ITEMS.

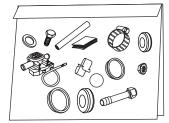


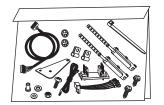
GEN IV 6 VENT EVAP SUB CASE w/ 207 ECU 744002

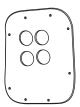












ACCESSORY KIT 784158

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:

Heater Hose (Not Included With This Kit):

Heater hose may be purchased from Vintage Air (Part# 31800-VUD) or your local parts retailer. Routing and required length will vary based on installer preference.

Bolts Passing Through Cowl and/or Firewall:

To ensure a watertight seal between the passenger compartment and the vehicle exterior, for all bolts passing through the cowl and/or firewall, Vintage Air recommends coating the threads with silicone prior to installation.

Safety Switches:

Your Vintage Air system is equipped with a binary pressure safety switch. A binary switch disengages the compressor clutch in cases of extreme low pressure conditions (Refrigerant Loss) or excessively high head pressure (406 PSI) to prevent compressor damage or hose rupture. A trinary switch combines Hi/Lo pressure protection with an electric fan operation signal at 254 PSI, and should be substituted for use with electric fans. Compressor safety switches are extremely important since an A/C system relies on refrigerant to circulate lubricant.

Service Info:

Attention: The following system components are capped: Compressor, evaporator, condenser & drier. 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 \underline{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 Is a Fire Hazard 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's guidelines)

R134a System

Charge with 1.8 lbs. (1 lb., 12 oz.) of refrigerant.

Lubricant Capacities:

New Vintage Air-supplied Sanden Compressor: No additional oil needed (Compressor is shipped with proper oil charge).

All Other Compressors: Consult manufacturer (Some compressors are shipped dry and will need oil added).



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 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 switching some of the vehicle's other systems on and off. Modern computer-operated equipment can be sensitive to voltage spikes on the power leads, which can cause unexpected resets, strange behavior, and/or permanent damage.

Vintage Air strives to harden our 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 and truck parts suppliers. They typically are cylindrical in shape, a little over an inch long, a little over a half inch in diameter, and they have a single lead coming from one end of the cylinder with a terminal on the end of the wire, as well as 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 to any other
 auxiliary device. Shorting to ground or connecting to a condenser fan or any other
 auxiliary device may damage wiring, the compressor relay, and/or cause a
 malfunction.
- When installing ground leads on Gen IV systems, the blower control ground and ECU ground must be connected directly to the negative battery post.
- For proper system operation, the heater control valve must be connected to the ECU.

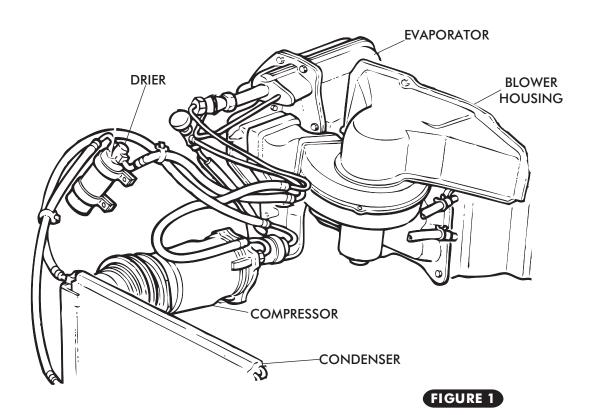


BEFORE STARTING THE INSTALLATION, CHECK THE FUNCTION OF THE VEHICLE (HORN, LIGHTS, ETC.) FOR PROPER OPERATIONS. STUDY THE INSTRUCTIONS, ILLUSTRATIONS, & DIAGRAMS.

ENGINE COMPARTMENT-

REMOVE THE FOLLOWING

- ☐ DRAIN RADIATOR, REMOVE RADIATOR (RETAIN).
- ☐ EVACUATE THE A/C SYSTEM IF NECESSARY.
- ☐ OEM CONDENSER AND DRIER (DISCARD). SEE FIGURE 1.
- OEM A/C LINES FROM COMPRESSOR TO EVAPORATOR (DISCARD). SEE FIGURE 1.
- ☐ OEM COMPRESSOR AND BRACKET (DISCARD). SEE FIGURE 1.
- ☐ EVAPORATOR BLOWER ASSEMBLY (DISCARD).
 - TO REMOVE THE EVAPORATOR AND BLOWER ASSEMBLY (UNDER HOOD) AND THE AIR DISTRIBUTION SYSTEM (UNDER DASH), THE FACTORY MANUAL INDICATES DOING THE FOLLOWING: REMOVE RIGHT INNER FENDER.
- ☐ OEM HEATER HOSES, A/C HOSES, AND HARDLINES (DISCARD). SEE FIGURE 1.
- ☐ OEM A/C & HEATER WIRING/VACUUM HARNESS MOLDED GROMMET. 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).

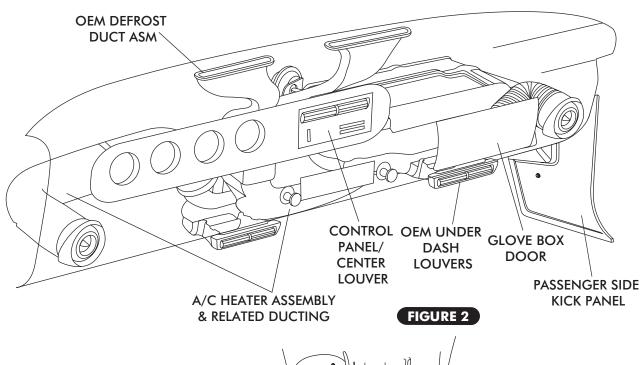
COMPRESSOR & BRACKETS-

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

PASSENGER COMPARTMENT-

REMOVE THE FOLLOWING:

- ☐ REMOVE GLOVE BOX DOOR (RETAIN) AND GLOVE BOX (DISCARD).
- ☐ DISCONNECT ALL WIRE AND CABLES FROM CONTROL PANEL AND RADIO.
- ☐ ALL HOSE AND DUCTING FROM O.E.M LOUVERS, SEE FIGURE 2 BELOW.
- ☐ OEM DEFROST DUCT ASSEMBLY, SEE BELOW.
- ☐ OEM AC/ HEATER ASSEMBLY. SEE BELOW.
- □ PASSENGER SIDE KICK PANEL/FRESH AIR DOOR ASM AS SHOWN IN FIGURES 2 & 2a.



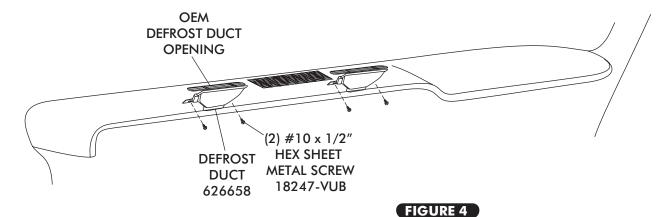
FRESH AIR DOOR ASM

FIGURE 2a



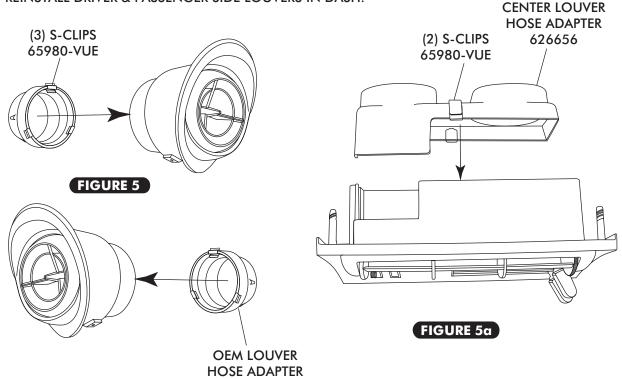
DEFROST DUCT INSTALLATION -

- ☐ INSTALL DEFROST DUCTS UNDER DASH AND ALIGN WITH OEM OPENING.
- \square INSTALL THE DRIVER AND PASSENGER SIDE DEFROST DUCT ASM TO COWL USING (2) #10 x 1/2" HEX SHEET METAL SCREWS.
- □ NOTE: APPLY SILICONE ON SCREWS TO ENSURE LEAK FREE INSTALLATION. SEE FIGURE 4 BELOW.



HOSE ADAPTER INSTALLATION-

- ☐ INSTALL (3) S-CLIPS ON DRIVER SIDE/PASSENGER SIDE LOUVER HOSE ADAPTER AS SHOWN IN FIGURE 5 BELOW.
- ☐ INSTALL DRIVER & PASSENGER SIDE HOSE ADAPTERS OUTSIDE OEM LOUVERS.
- □ INSTALL S-CLIPS ON CENTER LOUVER HOSE ADAPTER AS SHOWN IN FIGURE 5α BELOW.
- ☐ INSTALL CENTER LOUVER HOSE ADAPTER INSIDE OEM CENTER LOUVER.
- REINSTALL DRIVER & PASSENGER SIDE LOUVERS IN DASH.

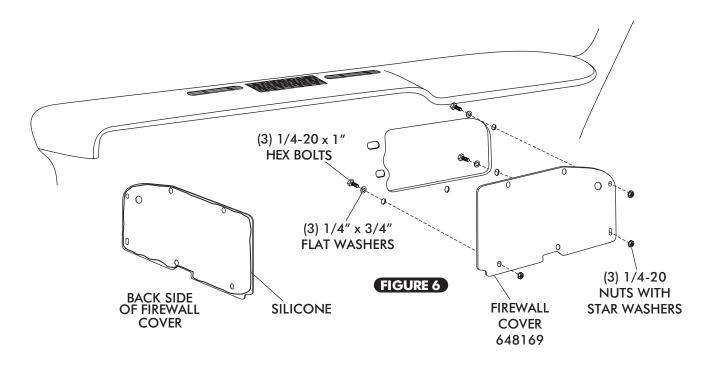


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FIREWALL COVER INSTALLATION

- ☐ APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF THE FIREWALL COVER AS SHOWN IN FIGURE 6, 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 NUTS WITH STAR WASHERS, SEE FIGURE 6, BELOW.



EVAPORATOR INSTALLATION —



☐ INSTALL (2) HEX BOLTS, (2) NYLON SPACERS AND (2) 1/4" PUSH NUT BOLT RETAINERS ON EVAP

REAR BRKT AS SHOWN IN FIGURE 8, PAGE 10.

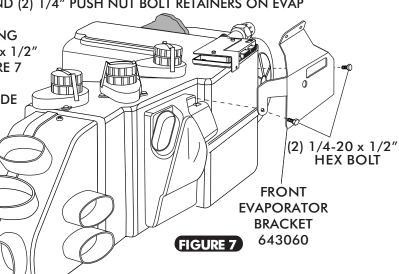
 □ INSTALL EVAPORATOR FRONT & REAR MOUNTING BRACKETS ON EVAPORATOR USING (6) 1/4-20 x 1/2" HEX BOLTS AND TIGHTEN AS SHOWN IN FIGURE 7

BELOW & FIGURE 8, PAGE 10.

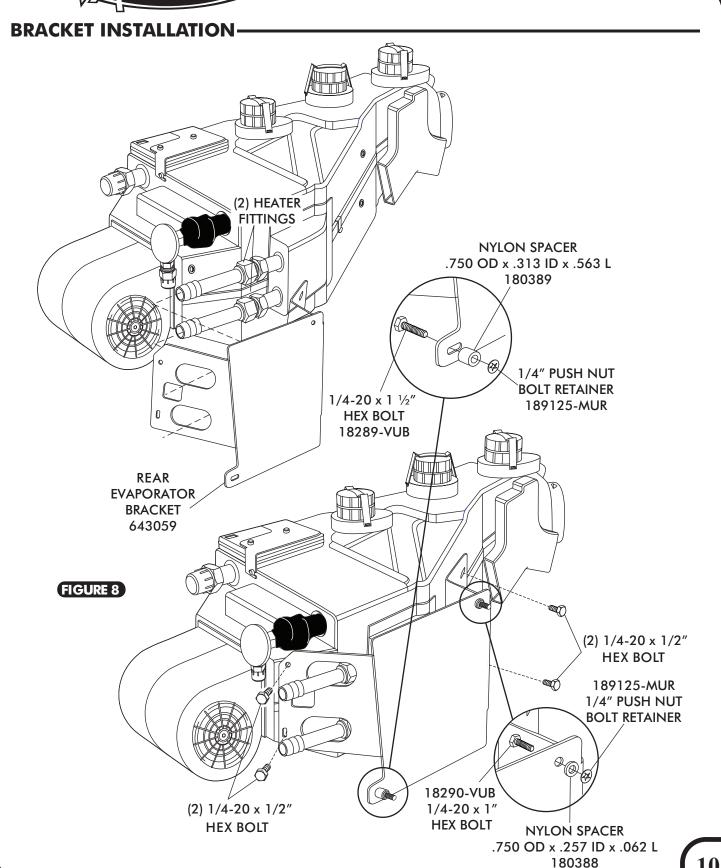
☐ LAY EVAPORATOR SUB CASE ON PASSENGER SIDE FLOOR BOARD. INSTALL A/C & HEATER HOSE ON EVAPORATOR AS SHOWN IN FIGURE 11, PAGE 12 AND HOSE INSTALLATION ON

PAGE 14.

□ NOTE: WRAP THE #10 FITTING CONNECTIONS WITH PRESS TAPE. SEE FIGURE 11, PAGE 12.

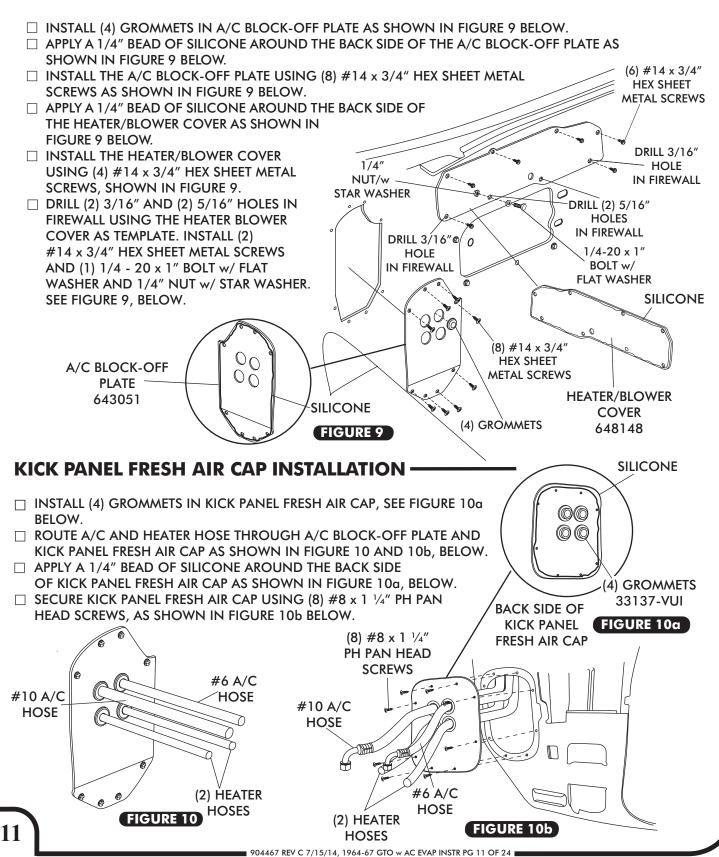








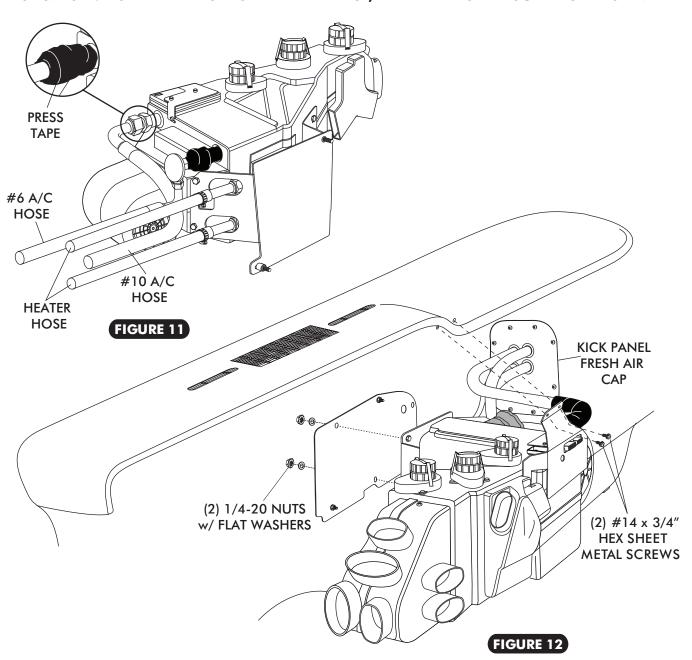
A/C BLOCK OFF PLATE/HEATER BLOWER COVER INSTALLATION-





EVAPORATOR INSTALLATION CONT. -

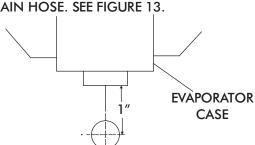
- ☐ LIFT EVAPORATOR UNIT UP UNDER THE DASHBOARD. SECURE LOOSELY TO THE FIREWALL FROM THE ENGINE COMPARTMENT SIDE USING (2) 1/4-20 NUTS AND FLAT WASHERS, SEE FIGURE 12.
- ☐ SECURE THE FRONT EVAPORATOR MOUNTING BRACKET TO COWL USING (2) #14 x 3/4" HEX SHEET METAL SCREWS. SEE FIGURE 12 BELOW.
- □ VERIFY 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.

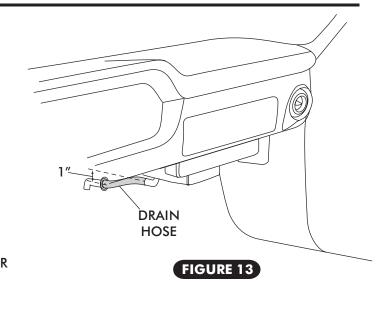




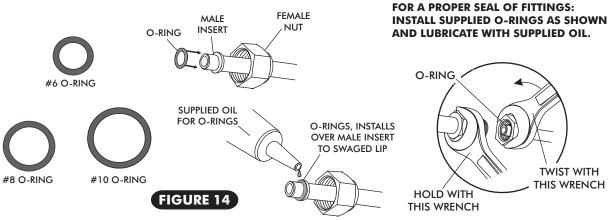
DRAIN HOSE INSTALLATION

- ☐ 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 13 BELOW.
- ☐ INSTALL DRAIN HOSE TO BOTTOM OF EVAPORATOR UNIT AND ROUTE THROUGH FIREWALL. INSTALL 1/2" 90° DRAIN ELBOW ON DRAIN HOSE. SEE FIGURE 13.





LUBRICATING O-RINGS



A/C HOSE INSTALLATION STANDARD HOSE KIT

- □ LOCATE THE #8 COMPRESSOR A/C HOSE. LUBRICATE (2) #8 O-RINGS (SEE FIGURE 14, ABOVE) AND CONNECT THE 90° FEMALE FITTING TO THE #8 DISCHARGE PORT ON THE COMPRESSOR. ROUTE THE STRAIGHT FEMALE FITTING w/ 134α SERVICE PORT TO THE #8 CONDENSER HARDLINE COMING THROUGH CORE SUPPORT. SEE FIGURE 15 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 14 ABOVE.
- □ LOCATE THE #10 COMPRESSOR A/C HOSE. LUBRICATE (2) #10 O-RINGS (SEE FIGURE 14, ABOVE) AND CONNECT THE #10 135° FEMALE FITTING w/134a SERVICE PORT TO THE #10 SUCTION PORT ON THE COMPRESSOR. ROUTE THE 90° FEMALE FITTING TO THE #10 EVAPORATOR. SEE FIGURE 11 PAGE 12 AND FIGURE 15 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN 14 ABOVE.
- □ LOCATE THE #6 EVAPORATOR A/C HOSE. LUBRICATE (2) #6 O-RINGS (SEE FIGURE 14, ABOVE) AND CONNECT THE STRAIGHT FEMALE FITTING TO THE DRIER. ROUTE THE 90° FEMALE FITTING TO THE #6 EVAPORATOR. SEE FIGURE 11, PAGE 12 AND FIGURE 15 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 14, ABOVE.

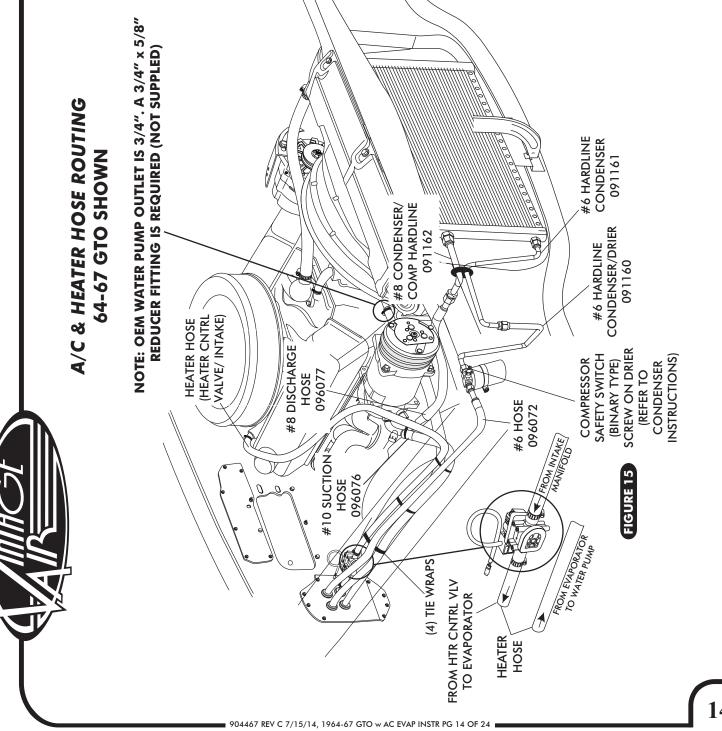
MODIFIED A/C HOSE KIT _

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 11, PAGE 12 AND FIGURE 15, 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 11, PAGE 12 AND FIGURE 15, BELOW. INSTALL HEATER CONTROL VALVE IN LINE WITH INTAKE MANIFOLD (PRESSURE SIDE) HEATER HOSE. SECURE USING HOSE CLAMPS AS SHOWN IN FIGURE 15, BELOW. **NOTE PROPER FLOW DIRECTION**.



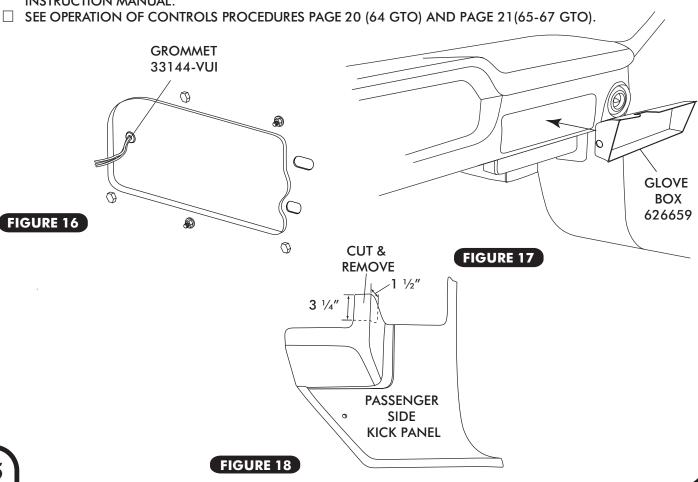


FINAL STEPS-

- ☐ INSTALL DUCT HOSES AS SHOWN IN FIGURE 20, PAGE 17.
- □ ROUTE A/C WIRES THROUGH 3/8" GROMMET AS SHOWN IN FIGURE 16

(12 VOLT/ GROUND/ BINARY SWITCH/ HEATER VALVE).

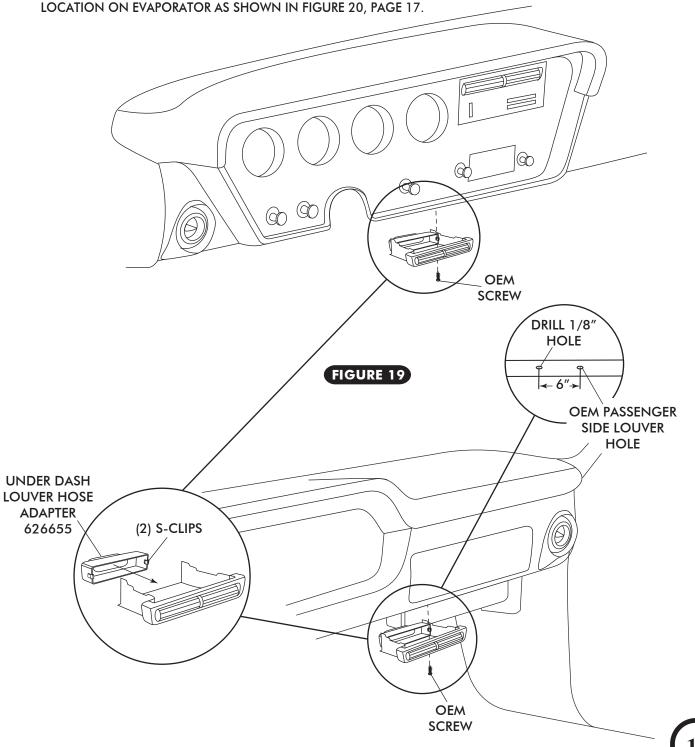
- ☐ INSTALL CONTROL PANEL ASSEMBLY.
- □ PLUG THE WIRING HARNESS IN THE ECU MODULE ON SUB CASE AS SHOWN IN FIGURE 20, PAGE 17 (WIRE ACCORDING TO WIRING DIAGRAM ON PAGE 18 AND 19).
- ☐ INSTALL GLOVE BOX DOOR.
- ☐ INSTALL NEW GLOVE BOX USING OEM SCREWS, SEE FIGURE 17.
- ☐ MODIFY PASSENGER SIDE KICK PANEL AS SHOWN IN FIGURE 18 BELOW.
 - REINSTALL ALL PREVIOUSLY REMOVED ITEMS, INNER FENDER.
- ☐ 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 A/C MODE AND/OR FREEZING WEATHER, VOIDING YOUR WARRANTY.
- ☐ DOUBLE CHECK ALL FITTINGS, BRACKETS AND BELTS FOR TIGHTNESS.
- ☐ VINTAGE AIR RECOMMENDS THAT ALL A/C 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.





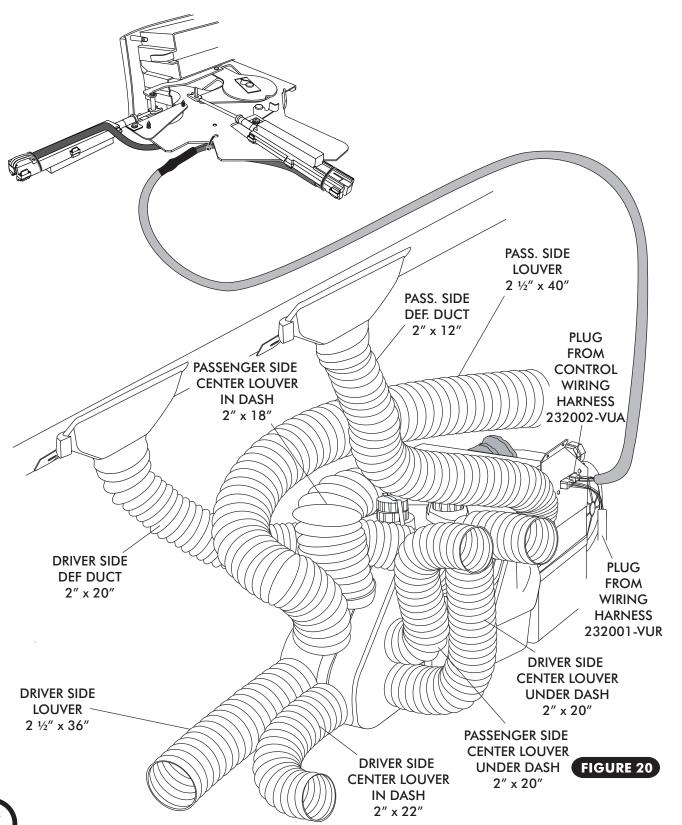
OEM UNDER DASH LOUVER HOSE ADAPTER INSTALLATION-

- ☐ INSTALL HOSE ADAPTER AS SHOWN IN FIGURE 19 BELOW.
- PASSENGER SIDE UNDER DASH LOUVER MUST BE RELOCATED AS SHOWN BELOW.
- DRILL 1/8" HOLE AND INSTALL LOUVER USING OEM SCREWS.
- ONCE THE LOUVER ASSEMBLY IS IN PLACE, ROUTE THE DUCT HOSES AND ATTACH THEM TO THE CORRECT LOCATION ON EVAPORATOR AS SHOWN IN FIGURE 20, PAGE 17



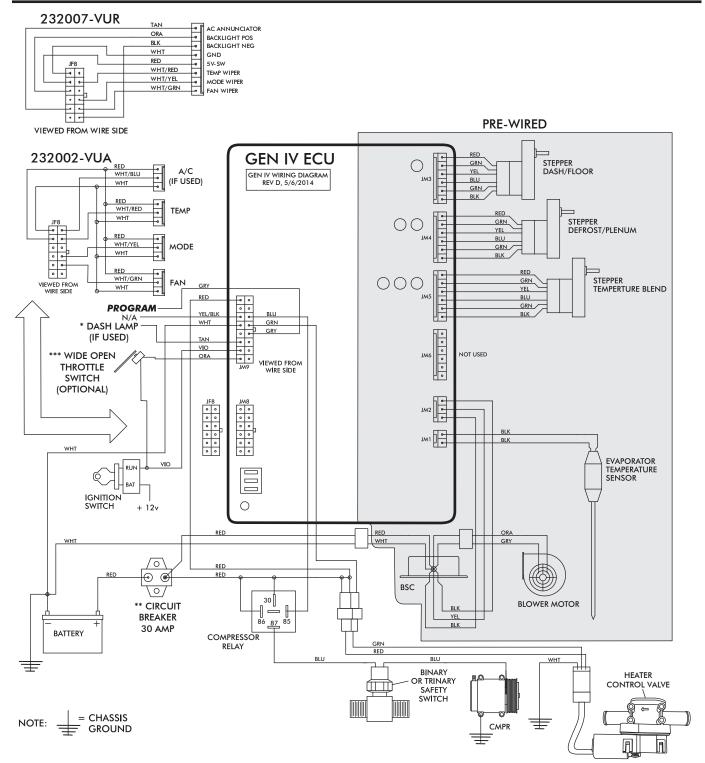


CONTROL PANEL & DUCT HOSE ROUTING-





Wiring Diagram



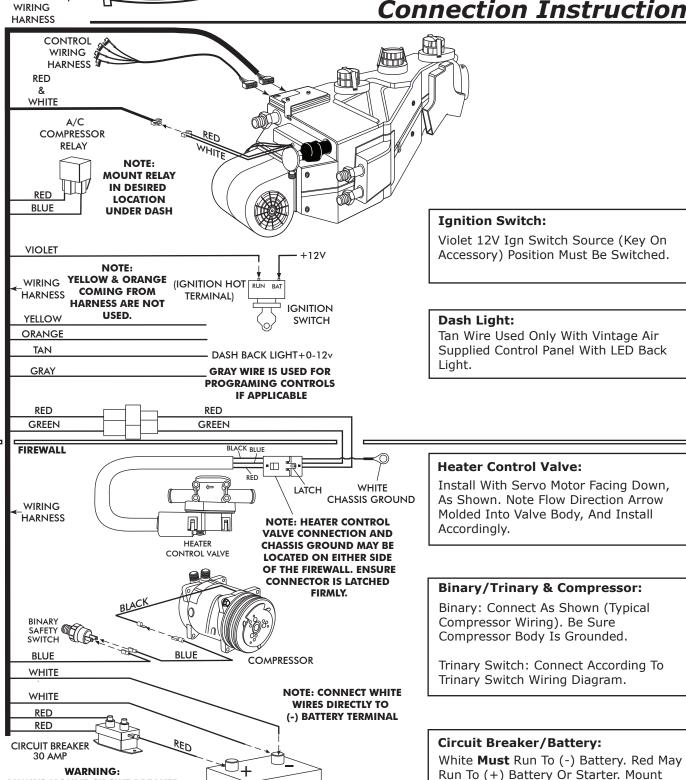
- Dash Lamp Is Used Only With Type 232007-VUR Harness.
- Warning: Always Mount Circuit Breaker As Close to the Battery As Possible. (NOTE: Wire Between Battery and Circuit Breaker Is Unprotected and Should Be Carefully Routed to Avoid a Short Circuit).
- Wide Open Throttle Switch Contacts Close Only at Full Throttle, Which Disables A/C Compressor.



Gen IV Wiring Connection Instruction

Circuit Breaker As Close to Battery As

Possible.



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).

BATTERY



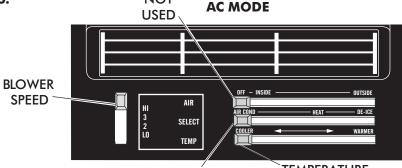
OPERATION OF CONTROLS (64 GTO ONLY)-

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.



MODE LEVER

BLOWER SPEED

ADJUST TO DESIRED SPEED

MODE LEVER

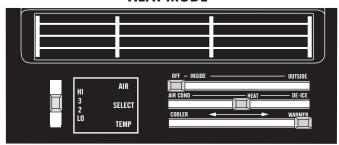
SLIDE THE LEVER TO THE LEFT POSITION

`TEMPERATURE LEVER

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

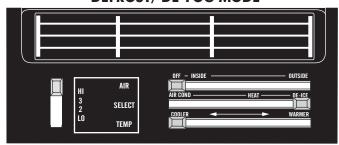
MODE LEVER

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)



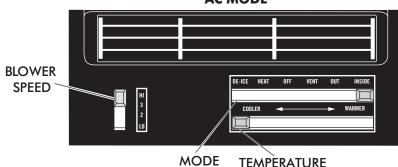
OPERATION OF CONTROLS (65-67 GTO ONLY) -

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**



LEVER BLOWER SPEED

LEVER TEMPERATURE LEVER

ADJUST TO DESIRED **SPEED**

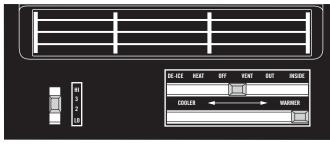
IN A/C MODE SLIDE THE TEMPERATURE LEVER ALL THE WAY TO THE LEFT TO ENGAGE COMPRESSOR. (SLIDE LEVER LEFT OR RIGHT TO ADJUST DESIRED **TEMPERATURE)**

MODE LEVER

SLIDE THE LEVER TO THE RIGHT POSITION

HEAT MODE

DEFROST/ DE-FOG MODE



BLOWER SPEED ADJUST TO DESIRED **SPEED**

MODE LEVER

TEMPERATURE LEVER

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

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)

No other part replacements Troubleshooting Guide Loss of ground on this wire Red wire at A/C pot should wire will have continuity to between 0V and 5V when lever is moved up or down. engine running. Serious should be between 0V and function, check voltage at 5V, and will vary with pot See blower switch check Danger: Never bypass white/blue wire. Voltage To check for proper pot have approximately 5V with ignition on. White chassis ground. White/ Disconnected or faulty thermistor will cause renders control head Blue wire should vary should be necessary. safety switch with injury can result. compressor to be Notes lever position. procedure. inoperable disabled. Verify that all pins are inserted into plug. Ensure that no Be sure the small, 20 GA white ground wire is connected to the battery ground post. If it is, replace the ECU. ground" side of the blower is shorted to chassis ground, shorted to vehicle ground. The BSC operates the blower potentiometer or associated Check continuity to ground on white control head wire. Wiring (Not applicable to 3-pot Check for 5V on red control head wire. by ground side pulse width modulation switching. The → Replace BSC (This will require removal of evaporator from vehicle). Verify continuity to chassis ground with white control positive wire to the blower will always be hot. If the Check to ensure that no BSC wiring is damaged or → Charge system or bypass pressure switch. → Check 2-pin connector at ECU housing. → Repair or replace pot/control wiring. pins are bent or damaged in ECU. Actions head wire at various points. the blower will run on HI. Replace relay. connector from ECU. If blower connector from ECU. If blower improperly wired or damaged. improperly wired or damaged. System must be charged for Check for damaged blower switch or potentiometer and potentiometer or associated stays running, BSC is either wire (white) in control head Check for damaged pins or Check for damaged ground Check for faulty A/C relay. Unplug 3-wire BSC control Unplug 3-wire BSC control Check for disconnected or wires in control head plug. shuts off, ECU is either compressor to engage. Check for faulty A/C Check for faulty A/C Checks associated wiring. faulty thermistor. controls). harness. All other functions work. No other functions work. System is not charged. System is charged. Condition (All other functions ignition is on or off. (All other functions high speed when Blower stays on high speed when Blower stays on Compressor will Compressor will Symptom ignition is on. not turn off not turn on work). work) 1b. 904467 REV C 7/15/14, 1964-67 GTO w AC EVAP INSTR PG 22 OF 24



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Troubleshooting Guide (Cont.)

4			Silving	Notes
	Works when engine is not running; shuts off when engine is started (Typically early Gen IV, but possible on all	Noise interference from either ignition or alternator.	Install capacitors on ignition 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
System will not turn on, or runs intermittently.	√versions). ✓ Will not turn on under	wer	Check for positive power at heater valve green wire and blower red wire.	greater than 16V will shut down the ECU. Install a radio capacitor at the positive post of the ignition coil (See radio capacitor installation bulletin). A
04467 REV		✓ Verify battery voltage is greater than 10 volts and less than 16.	Verify proper meter function by checking the condition of a known good battery.	faulty alternator or worn out battery can also result in this condition.
Loss of mode door function.	No mode change at all.	Check for damaged mode → switch or potentiometer and associated wiring. Check for obstructed or		Typically caused by evaporator housing installed in a bind in the vehicle. Be sure all
4-67 GTO w A	Partial function of mode doors.	binding mode doors. Check for damaged stepper motor or wiring.		mounting locations line up and don't have to be forced into position.
o 6.	Battery voltage is at least 12V.	Check for at least 12V at circuit breaker.	Ensure all system grounds and power connections are clean and tight.	System shuts off blower at 10V. Poor connections or weak hattery can cause
and off rapidly.	Battery voltage is less than 12V.	Check for faulty battery or alternator.	→ Charge battery.	weak barter y can cause Shutdown at up to 11V.
		Check for damaged switch or pot and associated wiring.	→ Repair or replace.	
When ignition is turned on, blower momentarily comes on, then shuts off. This occurs 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 for even a split second, the system will reset.	→ Run red power wire directly to battery.	



EVAPORATOR KIT PACKING LIST

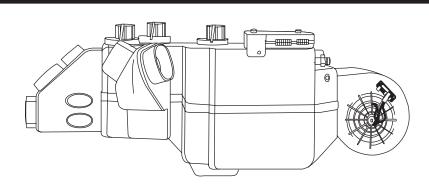
EVAPORATOR KIT 564467

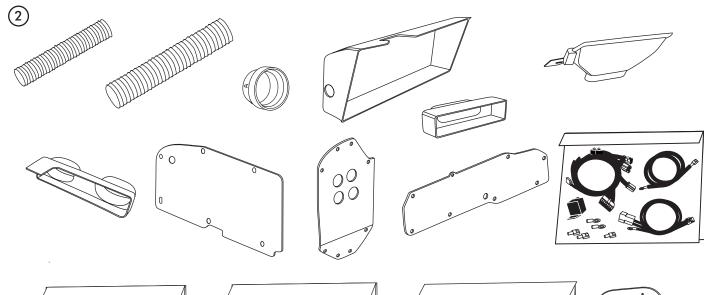
NO.	QTY.	PART NO.	DESCRIPTION	
1.	1	744002	GEN IV 6 VENT EVAP. SUB CASE w/ 207 ECU	
2.	1	784158	1964-67 GTO w AC ACC. KIT	

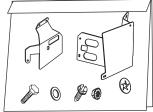
CHECK BY: ______
PACKED BY: _____
DATE: ____

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GEN IV 6 VENT EVAP SUB CASE w/ 207 ECU 744002

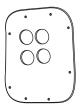












ACCESSORY KIT 784158 NOTE: IMAGES MAY NOT DEPICT ACTUAL PARTS AND QUANTITIES. REFER TO PACKING LIST FOR ACTUAL PARTS AND QUANTITIES.