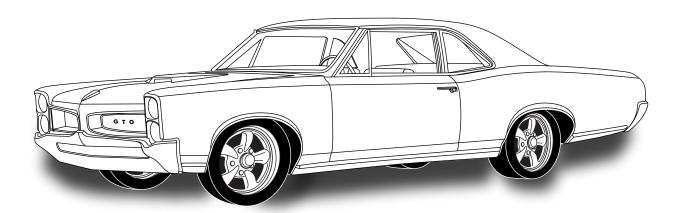


an ISO 9001: 2015 Registered Company

1964-67 PONTIAC GTO

WITHOUT FACTORY AIR 561067



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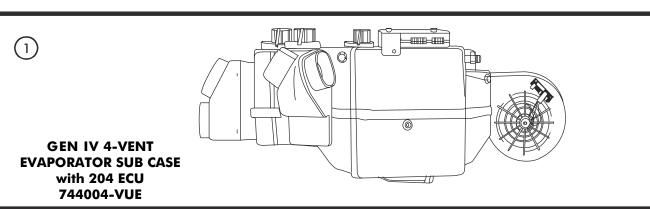


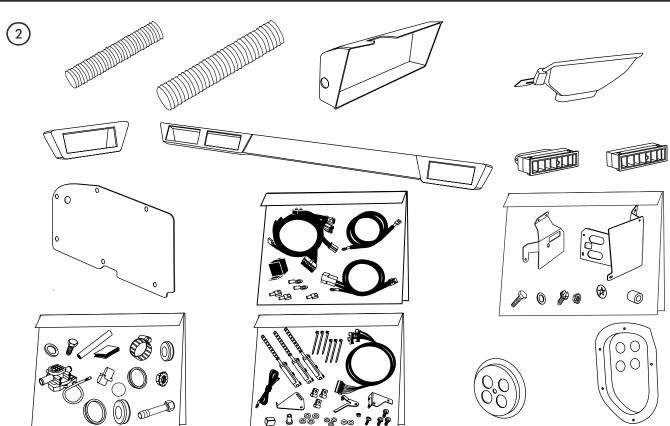
EVAPORATOR KIT PACKING LIST

EVAPORATOR KIT 561067

No.	QTY.	PART No.	DESCRIPTION	
1. 2.	1 1	744004-VUE 784157	GEN IV 4-VENT EVAPORATOR SUB CASE with 204 ECU 1964-67 GTO without A/C ACCESSORY 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.





ACCESSORY KIT 784157 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:

NOTE: Vintage Air systems are designed to operate with R134a refrigerant only. Use of any other refrigerant could damage your A/C system and/or vehicle, and possibly cause a fire, in addition to potentially voiding the warranties of the A/C system and its components.

Refrigerant Capacities:

Vintage Air System: 1.8 lbs. (1 lb., 12 oz.) of R134a, charged by weight with a quality charging station or scale. NOTE: Use of the proper type and amount of refrigerant is critical to system operation and performance.

Other Systems: Consult manufacturer's guidelines.

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).

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:

Protect Your Investment: Prior to assembly, it is critical that the compressor, evaporator, A/C hoses and fittings, hardlines, condenser and receiver/drier remained capped. Removing caps prior to assembly will allow moisture, insects and debris into the components, possibly leading to reduced performance and/or premature failure of your A/C system. This is especially important with the receiver/drier.

Additionally, when caps are removed for assembly, **BE CAREFUL!** Some components are shipped under pressure with dry nitrogen.

Evacuate the System for 35-45 Minutes: Ensure that system components (Drier, compressor, evaporator and condenser) are 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.

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.

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.



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.

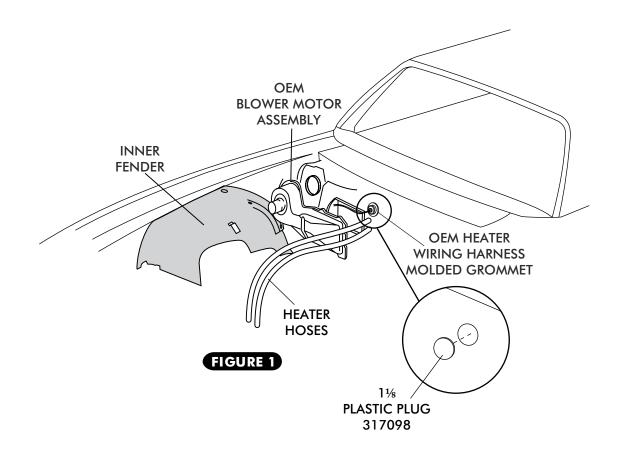


BEFORE STARTING THE INSTALLATION, CHECK THE FUNCTION OF THE VEHICLE (HORN, LIGHTS, ETC.) FOR PROPER OPERATIONS. STUDY THE INSTRUCTIONS, ILLUSTRATIONS, & DIAGRAMS.

ENGINE COMPARTMENT-

REMOVE THE FOLLOWING

- ☐ DRAIN RADIATOR, REMOVE RADIATOR (RETAIN).
- ☐ TO REMOVE THE OEM BLOWER MOTOR ASSEMBLY (UNDER HOOD) AND THE AIR DISTRIBUTION SYSTEM (UNDER DASH) THE FACTORY MANUAL INDICATES DOING THE FOLLOWING, REMOVE RIGHT INNER FENDER.
- ☐ OEM HEATER HOSES (DISCARD). SEE FIGURE 1.
- ☐ OEM HEATER WIRING HARNESS MOLDED GROMMET (DISCARD) SEE FIGURE 1.
- ☐ INSTALL 1 1/8" PLASTIC PLUG 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.
- ☐ O.E.M DEFROST DUCT ASSEMBLY, SEE FIGURE 2 BELOW.
- ☐ O.E.M HEATER ASSEMBLY SEE BELOW.

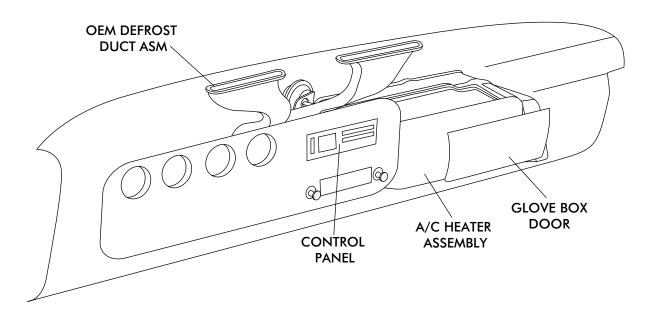
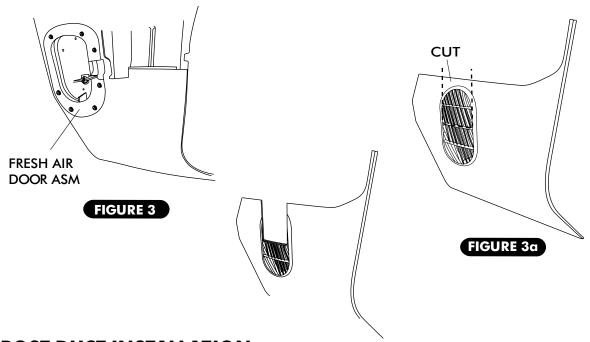


FIGURE 2



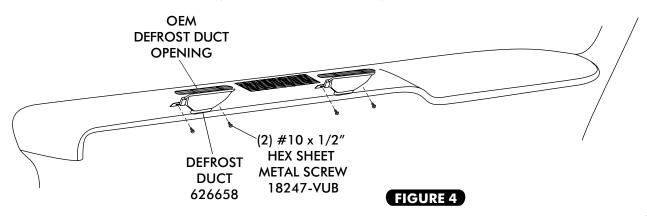
KICK PANEL MODIFICATION-

- ☐ REMOVE THE KICK PANEL.
- REMOVE THE KICK PANEL FRESH AIR DOOR ASSEMBLY BY REMOVING (5) OEM SCREWS. **NOTE: IF**THE KICK PANEL IS EQUIPPED WITH A FRESH AIR DOOR HOUSING, THE KICK PANEL WILL
 NEED TO BE MODIFIED. CUT AND REMOVE THE FRESH AIR DOOR HOUSING FLUSH WITH
 THE KICK PANEL.
- ☐ DISCONNECT THE PULL CABLE ASSEMBLY FROM UNDER THE DASH (DISCARD). (SEE FIGURE 3, BELOW).
- ☐ MODIFY THE PASSENGER SIDE KICK PANEL AS SHOWN IN FIGURE 3α, BELOW.



DEFROST DUCT INSTALLATION -

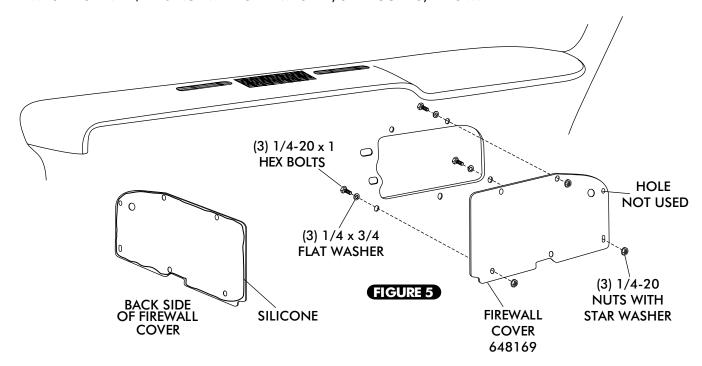
- ☐ INSTALL THE DEFROST DUCTS UNDER THE DASH AND ALIGN WITH THE OEM OPENING.
- □ INSTALL THE DRIVER AND PASSENGER SIDE DEFROST DUCT ASSEMBLY TO THE COWL USING (2) #10 x 1/2" HEX SHEET METAL SCREWS. **NOTE: APPLY SILICONE ONTO THE SCREWS TO ENSURE A LEAK FREE INSTALLATION (SEE FIGURE 4, BELOW).**





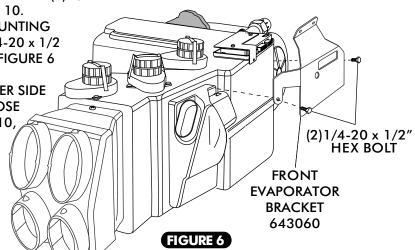
FIREWALL COVER INSTALLATION -

- APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF THE FIREWALL COVER AS SHOWN IN FIGURE 5, 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 5, BELOW.

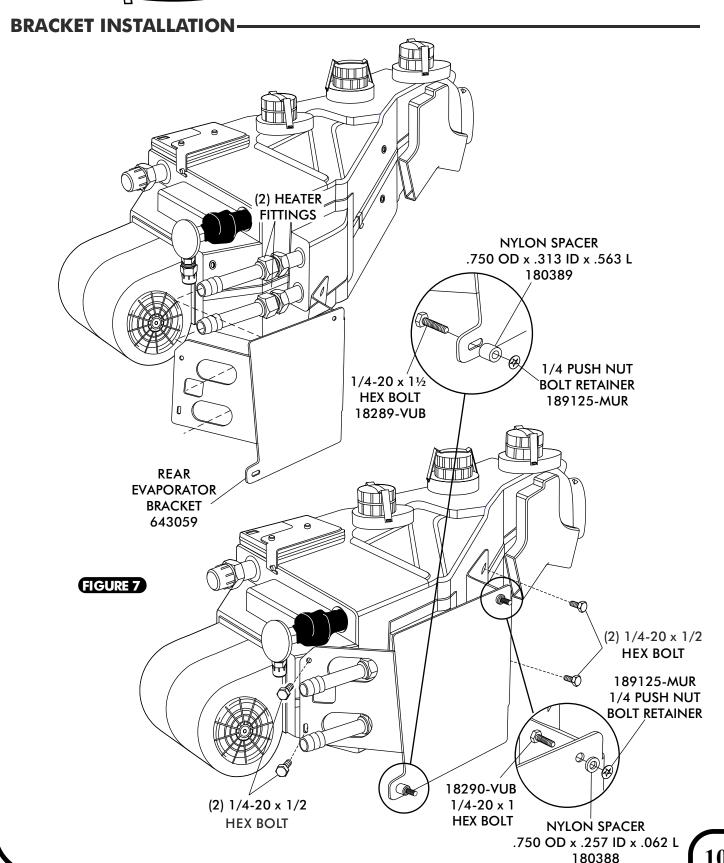


EVAPORATOR INSTALLATION-

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



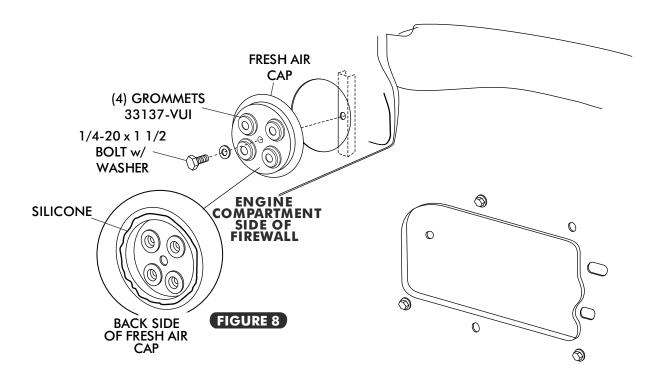






FRESH AIR COVER INSTALLATION -

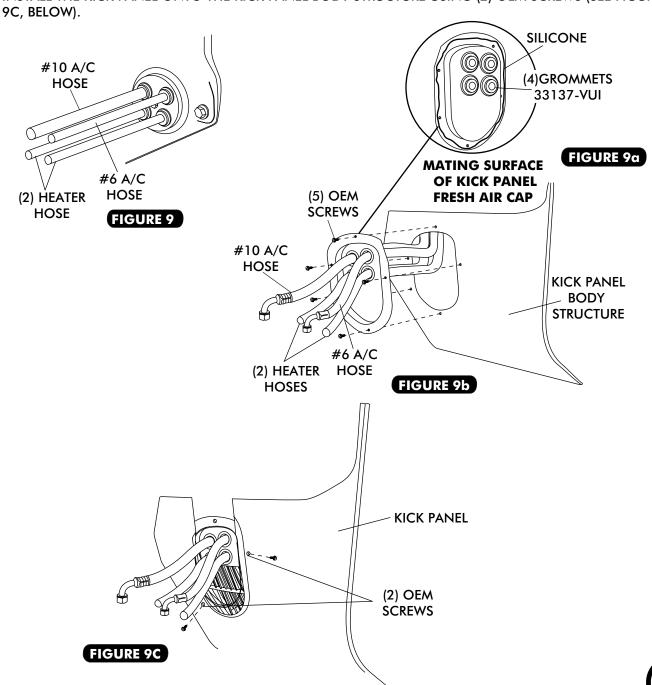
- ☐ INSTALL (4) GROMMETS IN FRESH AIR CAP. SEE FIGURE 8 BELOW
- ☐ APPLY A 1/4" BEAD OF SILICONE AROUND THE BACK SIDE OF THE FRESH AIR CAP AS SHOWN IN FIGURE 8 BELOW.
- ☐ ATTACH FRESH AIR CAP TO FIREWALL USING A 1/4-20 x 1 1/2 BOLT AND WASHER, SEE FIGURE 8 BELOW. **NOTE: FRESH AIR CAP INSTALLS ON ENGINE SIDE**OF FIREWALL.





KICK PANEL FRESH AIR CAP INSTALLATION -

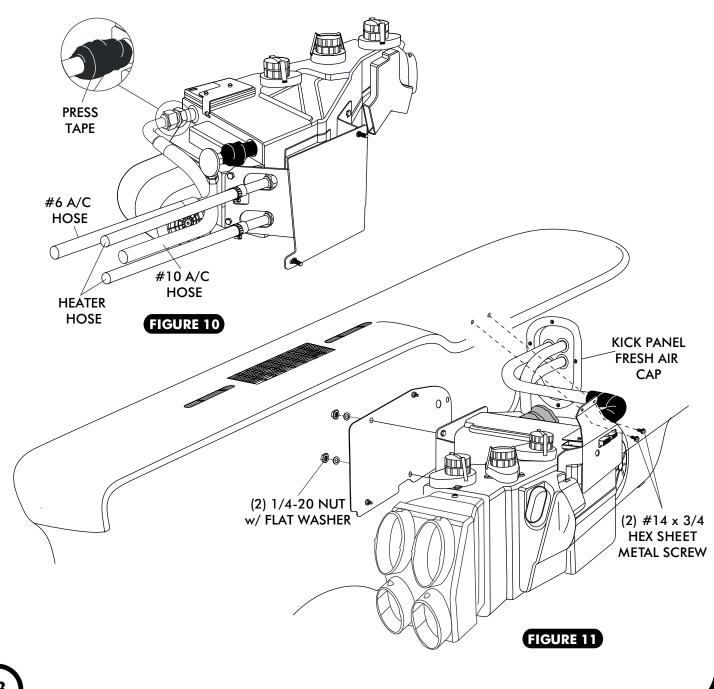
- ☐ INSTALL (4) GROMMETS INTO THE KICK PANEL FRESH AIR CAP (SEE FIGURE 9α, BELOW).
- ☐ ROUTE THE A/C AND HEATER HOSES THROUGH THE FRESH AIR CAP AND KICK PANEL FRESH AIR CAP AS SHOWN IN FIGURE 9 AND 9b, BELOW.
- ☐ APPLY A 1/4" BEAD OF SILICONE AROUND THE MATING SURFACE OF THE KICK PANEL FRESH AIR CAP AS SHOWN IN FIGURE 9a, BELOW.
- ☐ SECURE THE KICK PANEL FRESH AIR CAP USING THE OEM SCREWS AS SHOWN IN FIGURE 9b, BELOW.
- ☐ INSTALL THE KICK PANEL ONTO THE KICK PANEL BODY STRUCTURE USING (2) OEM SCREWS (SEE FIGURE





EVAPORATOR INSTALLATION CONT.-

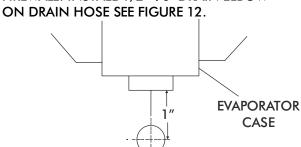
- ☐ LIFT EVAPORATOR UNIT UP UNDER THE DASHBOARD. SECURE LOOSELY TO THE FIREWALL FROM THE ENGINE COMPARTMENT SIDE USING (2) 1/4-20 NUT AND FLAT WASHER, SEE FIGURE 11.
- ☐ SECURE THE FRONT EVAPORATOR MOUNTING BRACKET TO COWL USING (2) #14 x 3/4 HEX SHEET METAL SCREWS SEE FIGURE 11 BELOW.
- □ VERIFY THAT 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.

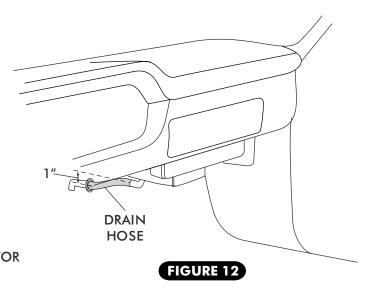




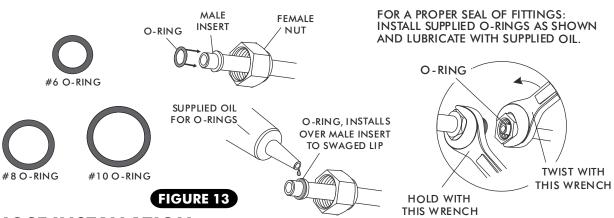
DRAIN HOSE INSTALLATION

- ☐ 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 12 BELOW.
- ☐ INSTALL DRAIN HOSE TO BOTTOM OF EVAPORATOR UNIT AND ROUTE THROUGH FIREWALL. INSTALL 1/2" 90° DRAIN ELBOW ON DRAIN HOSE SEE FIGURE 12





LUBRICATING O-RINGS



A/C HOSE INSTALLATION

STANDARD HOSE KIT

- LOCATE THE #8 COMPRESSOR A/C HOSE. LUBRICATE (2) #8 O-RINGS (SEE FIGURE 13, 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 14 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 13 ABOVE.
- □ LOCATE THE #10 COMPRESSOR A/C HOSE. LUBRICATE (2) #10 O-RINGS (SEE FIGURE 13, 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 10 PAGE 12 AND FIGURE 14 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN 13 ABOVE.
- LOCATE THE #6 EVAPORATOR A/C HOSE. LUBRICATE (2) #6 O-RINGS (SEE FIGURE 13, ABOVE) AND CONNECT THE STR FEMALE FITTING TO THE DRIER. ROUTE THE 90° FEMALE FITTING TO THE #6 EVAPORATOR. SEE FIGURE 10, PAGE 12 AND FIGURE 14 PAGE 14. TIGHTEN EACH FITTING CONNECTION AS SHOWN IN FIGURE 13, 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 10 PAGE 12 AND FIGURE 14 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 10 PAGE 12 AND FIGURE 14, BELOW. INSTALL HEATER CONTROL VALVE IN-LINE WITH INTAKE MANIFOLD (PRESSURE SIDE) HEATER HOSE, SECURE USING HOSE CLAMPS AS SHOWN IN FIGURE 14, BELOW. NOTE PROPER FLOW DIRECTION. NOTE: OEM WATER PUMP OUTLET IS 3/4". A 3/4" imes 5/8"REDUCER FITTING IS REQUIRED (NOT SUPPLIED) A/C & HEATER HOSE ROUTING #6 HARDLINE CONDENSER 091161 64-67 GTO SHOWN #8 CONDENSER/ **COMP HARDLINE** CONDENSER/DRIER 091162 #6 HARDLINE 091160 HEATER CNTRL **HEATER HOSE** VALVE/INTAKE) #8 DISCHARGE SCREW ON DRIER SAFETY SWITCH **NSTRUCTIONS**) COMPRESSOR (BINARY TYPE) CONDENSER 770960 HOSE (REFER TO #10 SUCTION ₩ (4) TIE WRAPS FROM INTAKE 920960 HOSE MANIFOLD FROM EVAPORATOR CLAMPS TO WATER PUMP CONTROL VALVE TO EVAPORATOR FROM HEATER HOSE

901056 REV H 12/05/18, 1964-67 GTO wo AC EVAP INSTR PG 15 OF 24



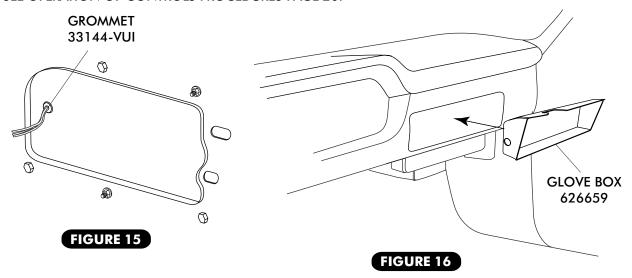
FINAL STEPS

☐ INSIALL DUC	THOSES AS SHOWN	I IN FIGURE 17	. PAGE 16.
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- □ ROUTE A/C WIRES THROUGH 3/8" GROMMET AS SHOWN IN FIGURE 15
 - (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 17, PAGE 16 (WIRE ACCORDING TO WIRING DIAGRAM ON PAGE 18 AND 19.)
- ☐ INSTALL GLOVE BOX DOOR.
- ☐ INSTALL NEW GLOVE BOX USING OEM SCREWS, SEE FIGURE 16.
- REINSTALL KICK PANEL.
- ☐ INSTALL LOUVERS AS SHOWN ON PAGE 17.
- ☐ REINSTALL ALL PREVIOUSLY REMOVED ITEMS, INNER FENDER.

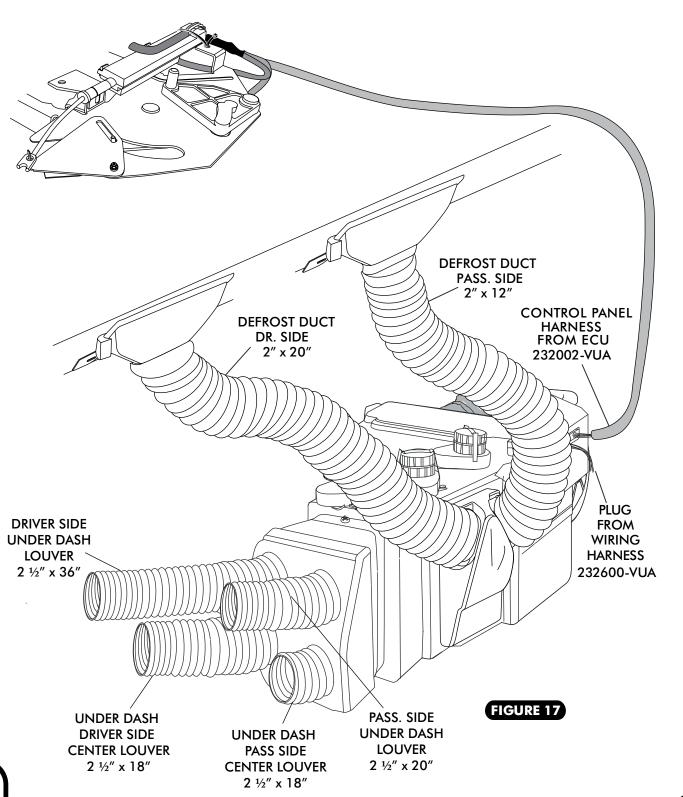
FILL RADIATOR WITH AT LEAST A 50/50 MIXTURE OF APPROVED ANTIFREEZE AND DISTILLED WATER.IT IS THE OWNER'S RESPONSIBILITY TO KEEP THE FREEZE PROTECTION AT THE PROPER LEVEL FOR THE CLIMATE IN WHICH THE VEHICLE IS OPERATED. FAILURE TO FOLLOW ANTIFREEZE RECOMMENDATIONS WILL CAUSE HEATER CORE TO CORRODE PREMATURELY AND POSSIBLY BURST IN 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 PAGE 20.





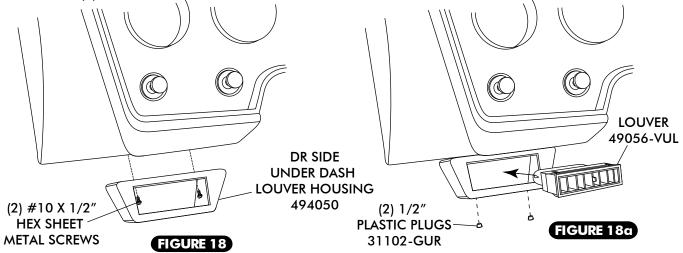
CONTROL PANEL & DUCT HOSE ROUTING-





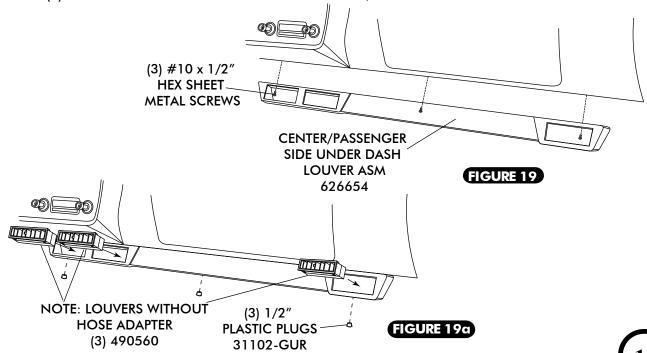
DRIVER SIDE UNDER DASH LOUVER INSTALLATION -

- ☐ LOCATE DRIVER SIDE LOUVER HOUSING UNDER DASH AND DRILL (2) 1/8" HOLES.
- ☐ SECURE LOUVER HOUSING TO DASH USING (2) #10 x 1/2" HEX SHEET METAL SCREWS AS SHOWN IN FIGURE 18 BELOW.
- ☐ INSTALL LOUVER IN UNDER DASH HOUSING AS SHOWN IN FIGURE 18a.
- ☐ INSTALL (2) 1/2" PLASTIC PLUGS AS SHOWN IN FIGURE 18a, BELOW.



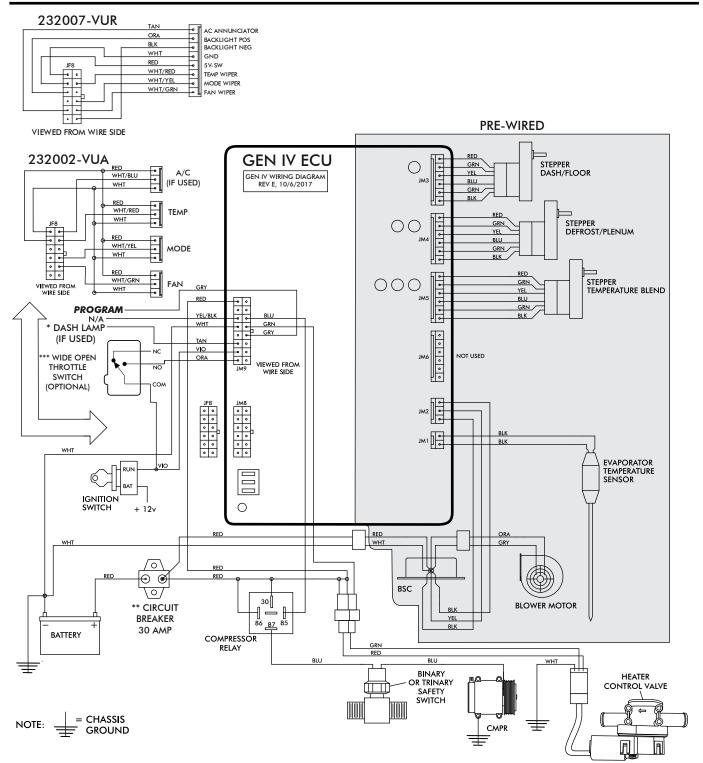
CENTER/PASSENGER SIDE UNDER DASH LOUVER INSTALLATION

- ☐ LOCATE CENTER/PASSENGER SIDE LOUVER BEZEL UNDER DASH AND DRILL (3) 1/8" HOLES.
- \square SECURE LOUVER BEZEL UNDER DASH USING (3) #10 x 1/2" HEX SHEET METAL SCREWS AS SHOWN IN FIGURE 19 BELOW.
- ☐ INSTALL LOUVERS IN CENTER/PASSENGER SIDE UNDER DASH LOUVER BEZEL AS SHOWN IN FIGURE 19a.
- ☐ INSTALL (3) 1/2" PLASTIC PLUGS AS SHOWN IN FIGURE 19a, BELOW.





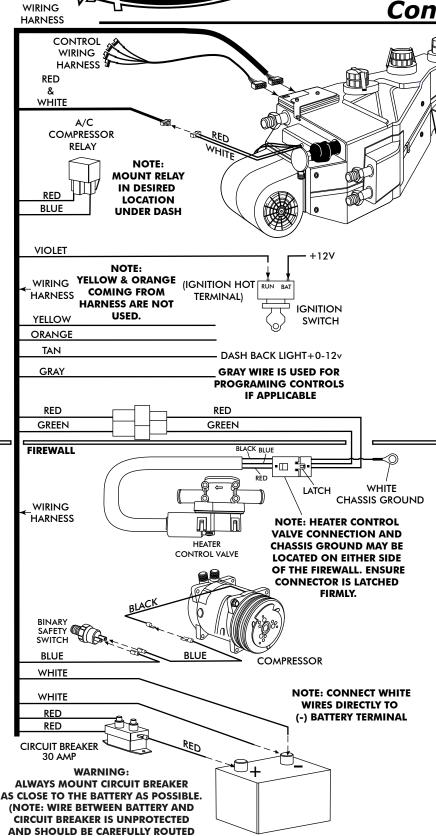
Wiring Diagram



- * 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



TO AVOID A SHORT CIRCUIT).

Ignition Switch:

Violet 12V Ign Switch Source (Key On Accessory) Position Must Be Switched.

Dash Light:

Tan Wire Used Only With Vintage Air Supplied Control Panel With LED Back Light.

Heater Control Valve:

Install With Servo Motor Facing Down, As Shown. Note Flow Direction Arrow Molded Into Valve Body, And Install Accordingly.

Binary/Trinary & Compressor:

Binary: Connect As Shown (Typical Compressor Wiring). Be Sure Compressor Body Is Grounded.

Trinary Switch: Connect According To Trinary Switch Wiring Diagram.

Circuit Breaker/Battery:

White **Must** Run To (-) Battery. Red May Run To (+) Battery Or Starter. Mount Circuit Breaker As Close to Battery As Possible.

BATTERY



OPERATION OF CONTROLS -

BLOWER SPEED ~

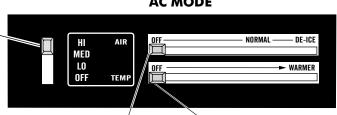
NOTE: CONTROLS MUST BE CALIBRATED FOR PROPER OPERATION-REFER TO CONTROL PANEL INSTRUCTIONS.

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



MODE LEVER

BLOWER SPEED

ADJUST TO DESIRED SPEED

MODE LEVER

SLIDE THE LEVER TO THE LEFT POSITION

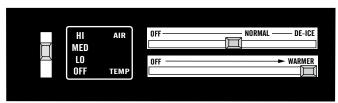
TEMPERATURE LEVER

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)

DEFROST/ DE-FOG MODE

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)

BLOWER SPEED

MED

LO

AIR

TEMP

ADJUST TO DESIRED SPEED

MODE LEVER

SLIDE THE LEVER TO THE RIGHT POSITION

TEMPERATURE LEVER

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

No other part replacements Loss of ground on this wire renders control head Troubleshooting Guide 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 procedure. 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 Blue wire should vary thermistor will cause compressor to be should be necessary. safety switch with injury can result. lever position. inoperable disabled. Be sure the small, 20 GA white ground wire is connected to the battery ground post. If it is, replace the ECU. Verify that all pins are inserted into plug. Ensure that no ground" side of the blower is shorted to chassis ground, Check to ensure that no BSC wiring is damaged or shorted to vehicle ground. The BSC operates the blower Check continuity to ground on white control head wire. Check for 5V on red control head wire. by ground side pulse width modulation switching. The Verify continuity to chassis ground with white control → Replace BSC (This will require removal of evaporator positive wire to the blower will always be hot. If the → 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. head wire at various points. the blower will run on HI. → Replace relay. from vehicle). wiring (Not applicable to 3-pot connector from ECU. If blower improperly wired or damaged. connector from ECU. If blower improperly wired or damaged. System must be charged for potentiometer or associated potentiometer or associated wire (white) in control head Check for damaged blower switch or potentiometer and stays running, BSC is either Check for damaged pins or Check for damaged ground Unplug 3-wire BSC control Check for faulty A/C relay. Unplug 3-wire BSC control Check for disconnected or wires in control head plug. shuts off, ECU is either 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 high speed when ignition is on or off. (All other functions (All other functions Blower stays on high speed when ignition is on. Blower stays on Compressor will Compressor wil Symptom not turn off not turn on work). work) 901056 REV H 12/05/18, 1964-67 GTO wo AC EVAP INSTR PG 22 OF 24



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Troubleshooting Guide (Cont.)

Symptom	Condition	Checks	Actions	Notes
4	Works when engine is not running; shuts off when engine is started	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
	(Typically early Gen IV, but possible on all			is suspected, check with a quality oscilloscope. Spikes
System will not turn on, or runs	versions).	Verify connections on power lead, ignition lead, and both	Check for positive power at heater valve green wire and blower red wire. Check for ground on control head white wire.	greater than 16V will shut down the ECU. Install a radio capacitor at the
	Will not turn on under	white ground wires.		coil (See radio capacitor installation hulletin) A
56 REV H 12	any conditions.	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.
(05/18, 19	No mode change at all.	Check for damaged mode Switch or potentiometer and associated wiring		Typically caused by evaporator housing
				installed in a bind in the vehicle. Be sure all
′ СТО	Partial function of mode	✓ binding mode doors.		mounting locations line up
wo AC		Check for damaged stepper motor or wiring.		into position.
EVAP IN	Battery voltage is at least	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
and off rapidly.	Battery voltage is less than 12V.	Check for faulty battery or alternator.	→ Charge battery.	weak battery can cause shutdown at up to 11V.
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Erratic functions of		Check for damaged switch or		
blower, mode, temp, etc.		pot and associated wiring.	→ Repair or replace.	
œ				
When ignition is		This is an indicator that the		
turned on, blower momentarily		system has been reset. Be		
comes on, then		the battery post, and not on a	→ Run red power wire directly to battery.	
shuts off. This		switched source. Also, if the		
blower switch in		even a split second, the		



EVAPORATOR KIT PACKING LIST

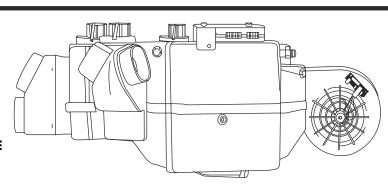
EVAPORATOR KIT 561067

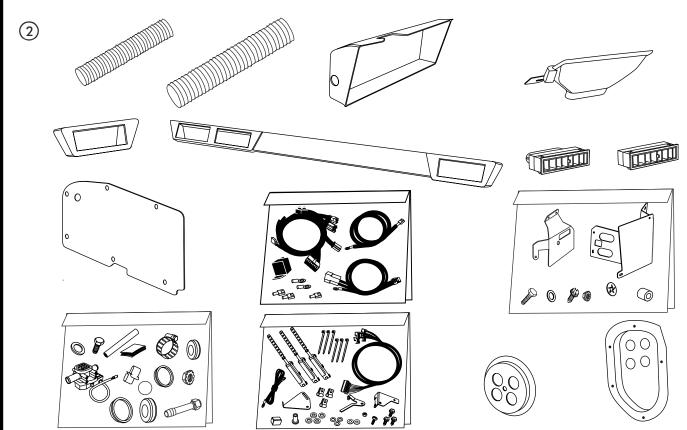
No.	QTY.	PART No.	DESCRIPTION	
1.	1	744004-VUE	GEN IV 4-VENT EVAPORATOR SUB CASE with 204 ECU	
2.	1	784157	1964-67 GTO without A/C ACCESSORY KIT	

CHECKED BY: ______
PACKED BY: _____
DATE: _____

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GEN IV 4-VENT EVAPORATOR SUB CASE with 204 ECU 744004-VUE





ACCESSORY KIT 784157 NOTE: IMAGES MAY NOT DEPICT ACTUAL PARTS AND QUANTITIES.
REFER TO PACKING LIST FOR ACTUAL PARTS AND QUANTITIES.