

## Installation Instructions



**Date:** September, 2003  
**Model:** GO-4 Interceptor II  
**Topic:** Installation of 1-97-051, A/C Option Kit

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### Upper Trunk Removal

1. Remove the wing nut and panel clamp.
  2. Lift and pull the upper back to remove it from the Scooter.
- CAUTION:** Trunk assembly is awkward and assistance is recommended for lifting off.

### Dash Top Removal

1. Remove the six pan head screws from the lower front of the dash face.



2. Lift up the dash top to clear the dash face.
3. Disconnect from the assembly the three multi-wire connectors from the right side of the splitting harness. Leave the cluster harness attached to the dash top.



4. Disconnect the hazard connectors at the switch located in the dash panel to the left of the steering column.
5. Tip up the dash to the right hand side and guide the assembly over the steering wheel.

## Front Hood Removal

1. Remove (2) ¼" Stainless Steel (SS) pan head bolts and ¼" lock nuts from Front Hood Hinge
2. Lift Front Hood out of position (Hood will be changed to new A/C Front Hood)

## Mounting A/C Compressor

1. Remove Power Steering Pump Bracket from engine
2. Install A/C Compressor mounting bracket on engine where Power Steering (P/S) Pump bracket was mounted using (2) of the smaller hex head bolts removed from P/S pump bracket (M8 x 20 x 1.25) & (2) M10 x 45 x 1.25 A/C Compressor Mtg. bolt with (2) M10 washers (*supplied in kit*)



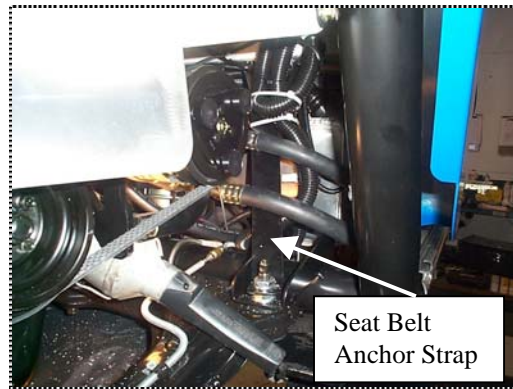
3. Mount A/C Compressor on mounting bracket using (2) large bolts from P/S pump bracket (M10 x 35 x 1.25)
4. Fasten A/C Compressor Tension Bracket to mounting bracket using M10 x 30 x 1.25, Hex Head Nut, and M10 Lockwasher
5. Install other end of tension Bracket to A/C Compressor using M10 x 30 x 1.25 bolt, 3/8" flat washer, and M10 lockwasher
6. Install A/C belt from A/C Compressor to Crankshaft pulley
7. Adjust A/C Compressor on tension bracket so that belt is tight



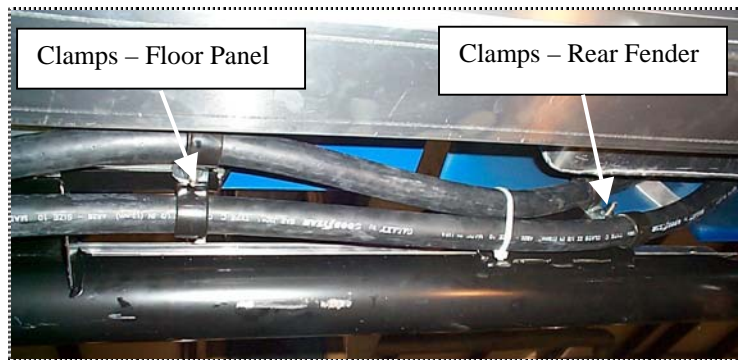
8. Remove original terminal and change to supplied red spade connector and connect to A/C Compressor (see pic.)

## A/C Hoses Installation

1. Install A/C Hoses # 10 (A/C Suction Line) & 8 (High Pressure Line) to A/C Compressor (hoses will only fit one way) **\*\*NOTE:** Tighten so hoses are routed to the RH side and slightly down.
2. Hoses are to be routed along the RH side of car's underside to the front of vehicle. Hose # 10 goes to Evaporator and #8 goes to Condenser assy. (see pic)
3. Bend Seat Belt Anchor Strap slightly to ensure A/C hoses do not rub on Main Harness or Seat Belt Anchor Strap



4. Using supplied hose clamps; fasten A/C hoses # 8 & 10 to underside of vehicle along wiring channel  
**\*\*1<sup>st</sup> set of clamps** – remove rear bolt on RH Engine Intake panel of rear fender (near fuel tank) and replace bolt with supplied 1/4" x 1" x 20 bolt and install (2) hose clamps securing with 1/4" nut  
**\*\*2<sup>nd</sup> set of clamps** – lift up floor mat on RH side and drill 1/4" hole on RH edge of floor panel (just before bend) and insert supplied 1/4" x 1" x 20 bolt and fasten (2) hose clamps to bolt with a 1/4" nut



5. Hang A/C Condenser Assy. in front hood opening by fastening upper mounting holes of the Condenser mounting bracket to the (2) pan head bolts below windshield frame (Condenser assy. will be secured in future step)
6. Route A/C hose # 10 up through hole on bottom of dashbase assy. Hose is to be left hanging loose until evaporator is installed



7. Clamp A/C hose # 8, high pressure liquid line to backside of condenser using supplied hose clamp and 1/4" x 5/8" x 20 bolt (see pic for location)



8. Install rubber grommet around A/C hose #10 where it comes through lower dash and secure with a tie strap around long end of grommet

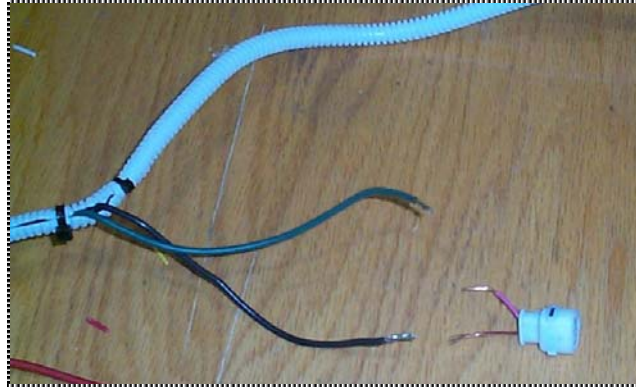
## Wiring Instructions

1. Locate wiring harness in behind front bumper
2. Locate white two prong plug on harness (approx. center of bumper)

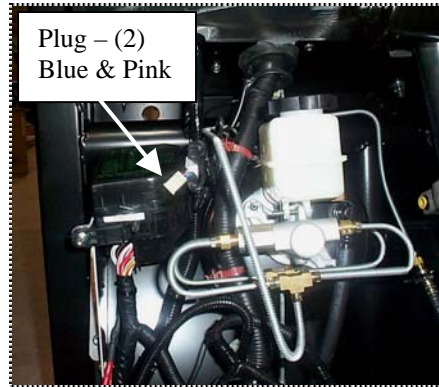


3. Cut (2) wires going to plug approx. 3" from plug (may need to untuck wire from loom). Plug will be connected to A/C harness in future steps
4. Solder (2) wire extensions terminated with spade connectors, supplied in kit, to wires where two prong plug was cut from. These will be connected to A/C Dryer in future steps

5. Lay supplied A/C wiring harness on work bench and locate two wires (should be easily visible). Then solder two prong plug here



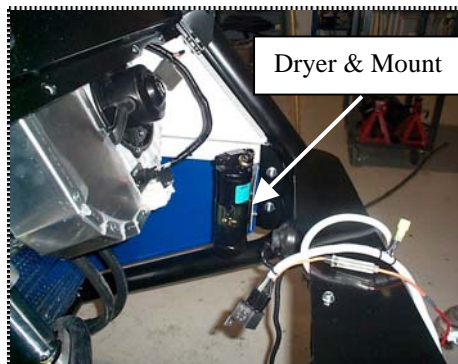
6. Locate 3 prong plug near brake booster under hood (contains (2) blue w/black stripe, (1) pink, and (1) black wire)



7. Cut off plug, and solder supplied long terminated extension (needs to go up dash and across to LH side of dash assy. where thermostatic switch will be mounted)
8. One wire of extension goes to pink wire and the other goes to (2) blue w/black stripe wires. Wrap black (ground) wire with electrical tape (not used)

## A/C Dryer Mounting

1. Mount A/C Dryer to its respective mounting bracket
2. Mount A/C Dryer and mounting bracket to the LH Front Fender Assy. using the existing 1/4" mounting bolts



3. Using the two wires extended above, connect them to A/C Dryer (order of terminals is not significant)
4. Connect A/C hose # 6 (longer of two remaining hoses) to dryer and route up through larger hole in bottom of dash base. (hose will remain loose until A/C Evaporator is installed) **\*\*NOTE:** may be required to disconnect heater harness and re-route through smaller hole in order to accommodate for A/C hose.



5. Install grommets in order to protect A/C hose & heater harness

## A/C Condenser Mounting

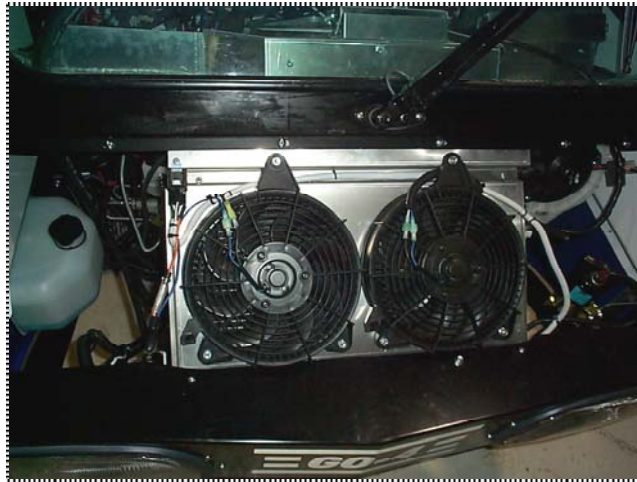
1. A/C Condenser should already be hanging freely from pan head bolts near bottom of windshield frame, we will now secure it to front bumper
2. Drill a 1/4" hole in front bumper (one on each side) lining up to be sure that holes will hit outside edge of A/C Condenser Shroud **\*\*NOTE:** Be sure not to drill into wiring harness located inside of front bumper.



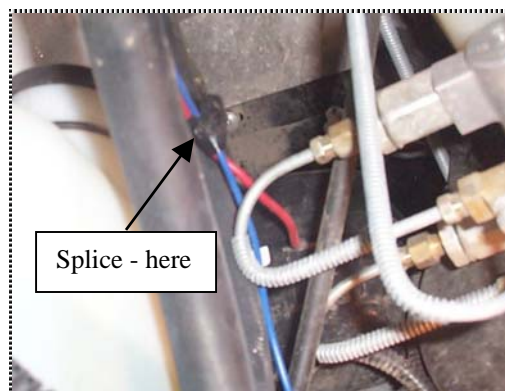
3. Now position A/C Condenser so shroud fits underneath top of front bumper, leaving approx. 1/2" gap to allow for spacer, and mark holes previously drilled in front bumper down through the condenser shroud
4. Drill out holes marked in previous step using same 1/4" drill bit
5. Fasten A/C Condenser Shroud to front bumper using supplied hardware (1/4" x 1.5" x 20 pan head bolts and 1/4" flange nuts) **\*\*NOTE:** Insert provided spacers and place on bolt between front bumper and A/C Condenser Shroud



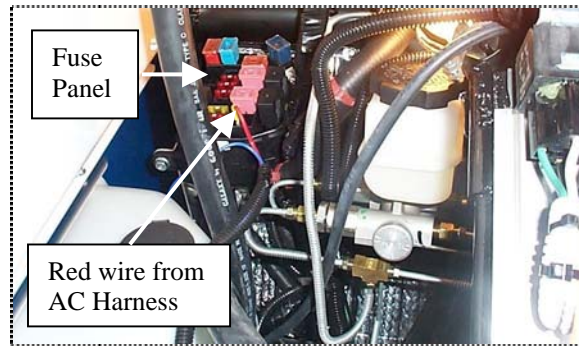
6. Route A/C wiring harness across A/C condenser shroud, as shown, and connect fans, high pressure switch, dryer, and ground to bolt on front bumper. Use plastic tie straps as needed to secure wiring harness



7. Solder blue extension (supplied in kit) to the blue 14 ga. wire located between brake booster and windshield washer jug (to be sure you have the correct wire a continuity test can be done between the wire and the radiator cooling fan). This will turn the RH A/C fan immediately when the A/C is turned on.

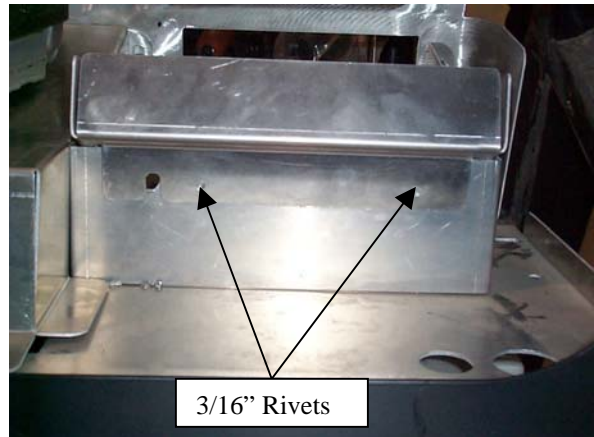


8. Connect A/C wiring harness to fuse panel under hood (see pic for location)

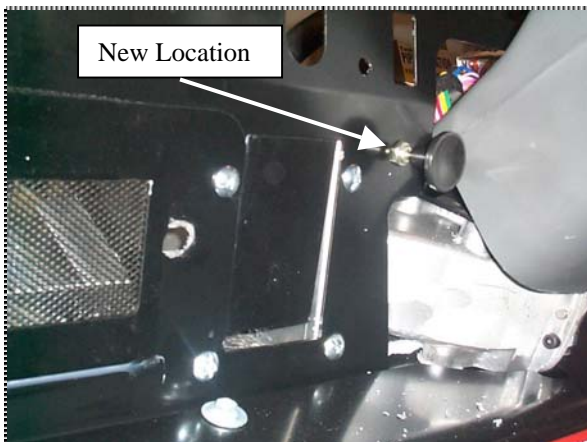


## A/C Evaporator Mounting Instructions

1. Remove LH Dash Inspection panel (this will be replaced with new A/C panel)
2. Remove temperature door control cable (*needs to be changed & repositioned*)
3. Install evaporator mount (keep mount to LH side) by drilling two 3/16" holes (use pilot holes drilled in mount) and secure using (2) 3/16" rivets (*\*Note: insulation missing from picture – not exactly as shown*)

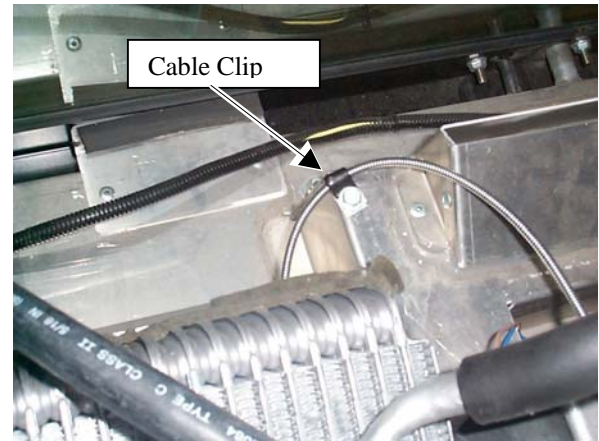


4. Drill 3/8" hole in Dash Panel for rerouting of temperature door control cable (*see picture for location*)

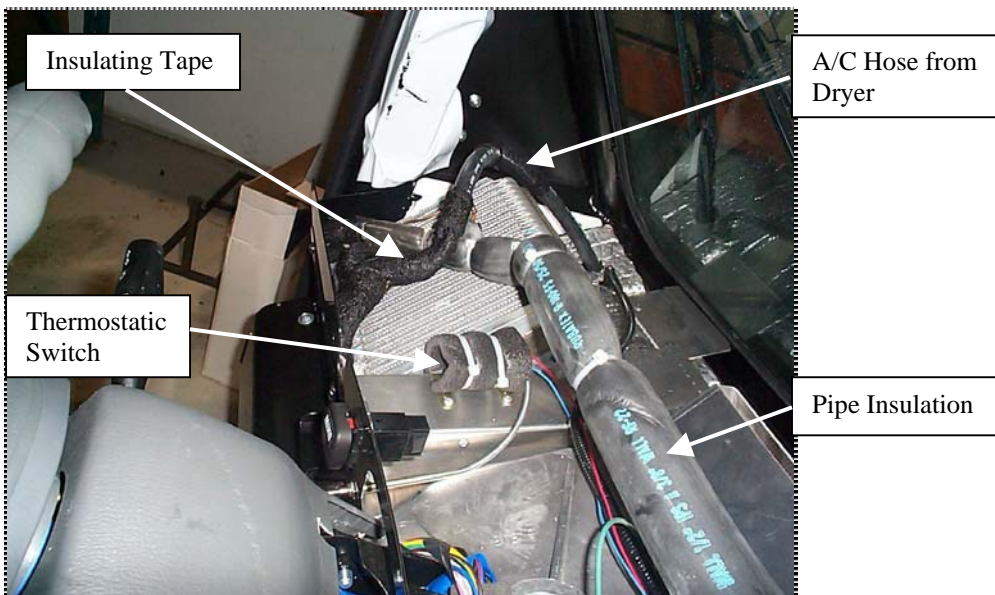




5. Drill 3/8" hole in dash base for temperature door control cable and install (*see picture for location*). Use cable clip and 3/16" rivet to secure temperature door control cable (*\*Note: insulation may be missing from picture*).



6. Using silicone, seal around temperature door control cable, outside edges, corners, and dash base shroud
7. Mount thermostatic switch right next to evaporator on air duct with capillary tube between switch and evaporator
8. Drill mounting holes for thermostatic switch using 1/8" drill bit and secure with supplied screws
9. Connect wire extension to thermostatic switch
10. Use short piece of pipe insulation to cover thermostatic switch and use (2) 14" plastic tie straps to secure to switch (*pipe insulation and plastic tie straps supplied in kit*)
11. Connect A/C hose # 6 to evaporator. This hose was previously routed through dash base from A/C dryer
12. Connect A/C hose # 10 from opposite side of dash to A/C evaporator (*see pic.*)
13. Wrap A/C hose # 10 with pipe insulation and secure it with plastic tie straps (*supplied in kit*)
14. Split supplied insulating tape into (2) pieces and wrap around metal pipes coming from evaporator



15. Charge A/C system \*\*NOTE: Should take approx. 1.5 lbs of R 134A
16. Replace LH Dash Inspection panel with the new one provided in your kit
17. Run vehicle and be sure A/C is working satisfactorily
18. Re-install dash top

## A/C Hinged Front Hood Installation

1. Remove and discard front hood retainers from front bumper by drilling out rivets
2. Clean up front bumper and re-fill holes with rivets and clear caulking
3. Remove and discard "U" clips that fastened front hood to lower windshield frame
4. Install Front Hood Hinges (marked L & R) by leaving a space of approx. 1/8" between top of bracket and lower windshield frame \*\*NOTE: Existing holes may be used if they line up, if not new hole will need to be made.
5. Using a 1/4" drill bit, drill holes secure hinges using supplied (4) Philips bolts with (4) flange nuts
6. Lubricate inside of hinges with a little grease (or similar lubricant) and mount hinged A/C front hood on hinges
7. Secure hinged A/C front hood using supplied Philips bolt (outside in) with a nylon locknut. Tighten until snug
8. Open and close hood to see if hood is binding and make adjustments accordingly
9. Install hood lock catch on front bumper using supplied hardware. Line up according to lock on hood.

Your GO-4 Interceptor II should now be A/C equipped!