



INSTALLATION INSTRUCTIONS

3312037.000 DOMETIC FURNACE SIGNALING INTERFACE MODULE KIT

for use with 3312227.000 Electronic Control Board And One

3312228.XXX or 3312230.XXX Dometic Comfort Control Center 2 Thermostat

KIT CONTAINS:

- 1 each 3312306.000 Interface Module
- 2 each Screw, #6-20 x 7/16" Self Drill
- 1 each 3312432.000 Installation Instructions
- 1 each 3312435.000 Wire Harness, Furnace

TOOLS REQUIRED:

- Screw Driver
- Wire Cutter & Stripper
- Flat 4 Conductor Telephone Cable
- Four RJ-11-6C4P Telephone Connectors
- RJ-11 Connector Crimping Tool

GENERAL INSTRUCTIONS

All field wiring modifications must comply with the National Electrical Code ANSI/NFPA-70 and CSA Standard C22.1 (latest edition) and any State or Local Codes or regulations.

This kit is specifically designed for use with an Atwood two speed furnace. Do not install with any other brand.

This kit must be installed during the original installation of the air conditioner/heat pump by the OEM of the recreational vehicle.

Read and understand instructions before installing this kit.

INSTALLATION INSTRUCTIONS

⚠ WARNING

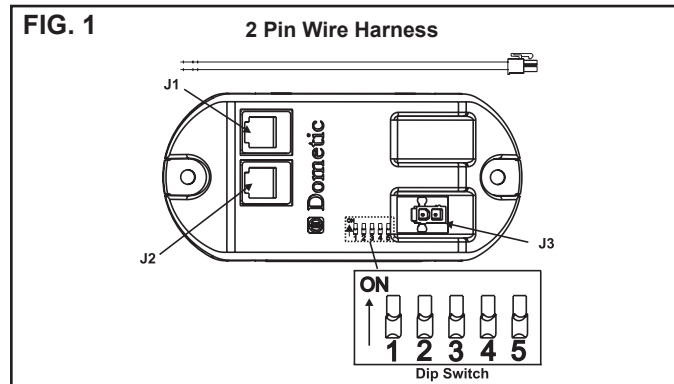
Disconnect all 120 VAC power and the positive (+) 12 VDC terminal at the supply battery. Failure to follow this instruction may create a shock hazard causing death or severe personal injury.

A. Furnace Interface Module Mounting Location

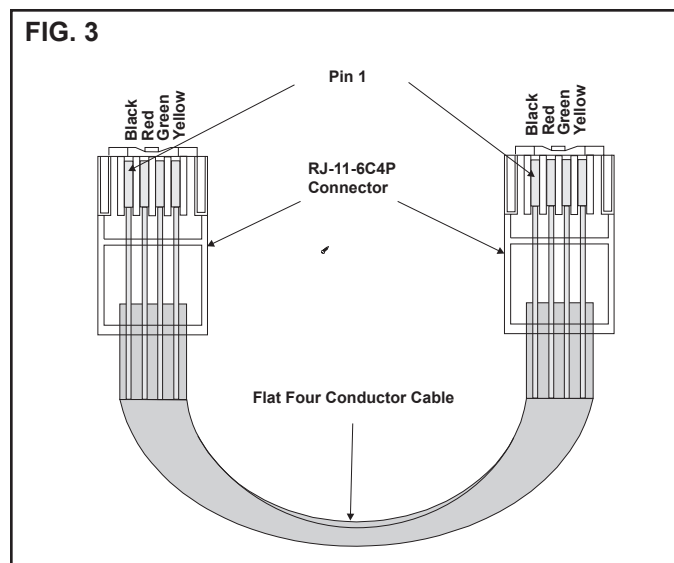
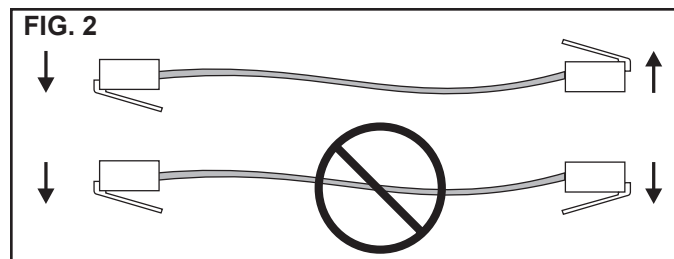
1. Select a location that is dry and away from any heat producing devices and the heat from them. This location should allow access to the module should service be required. Secure module using two #6-20 x 7/16" self-drilling screws (supplied) through bosses located on each end of the module.
The furnace interface module can be located inside the furnace compartment but **DO NOT** attach it to the furnace.
DO NOT locate the furnace interface module in the air conditioner 14-1/4" x 14-1/4" roof opening. This will restrict air flow and reduce the air conditioner performance.

C. Wiring Procedure

1. Insert the supplied 2 pin wire harness into the J3 connector on the furnace interface module. See FIG. 1.



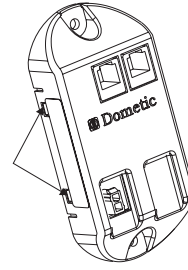
2. Make two communication cables using a flat four conductor telephone cable. Terminate the cable ends with two RJ-11-6C4P connectors as shown in FIG. 2 & 3. Refer to the crimp tool manufacturer for crimping instructions.



3. Route one communication cable between the air conditioner 14-1/4" x 14-1/4" opening and the furnace signaling module location. Choose the shortest most direct route. Connect one end of the communication cable to either the J1 or J2 connector on the furnace interface module. See FIG. 4. Connect the other end to either the P1 or P2 connector on the printed circuit board. Depending on the model, the printed circuit will be in the upper unit electrical box or in the electronic control box mounted in the lower unit. Either way the layout of the circuit board is the same.
4. Route one communication cable between the furnace signaling module location and the Comfort Control Center 2 thermostat location. Again, choose the shortest most direct route. Connect one end of the communication cable to the remaining RJ-11-6C4P connector on the furnace signaling module and the other end to the RJ-11-6C4P connector on the CCC2 thermostat. When connecting to 3312230.XXX CCC2 thermostat with dehumidification feature, **DO NOT** use the RJ-11-4C4P (smaller connector) on the thermostat. This could result in damage to the module, thermostat, or other system components.
5. Connect the blue wire from the 2 pin connector (J3 connection on furnace interface module) to the Atwood furnace blue wire using a proper size wire connector. (The blue wire is the PWM signal) See FIG. 4.
6. Connect the green wire from the 2 pin connector (J3 connection on furnace interface module) to the Atwood furnace green wire using a proper size wire connector. (The green wire is the ground connection) See FIG. 4.
7. Set the furnace interface module dip switch to match the zone setting of the circuit board in the air conditioner or in the electronic control box. For instances, if the circuit board that the interface module is connected to, is set to zone 2, set the # 2 dip switch on the furnace interface module to "ON". If only one air conditioner or heat pump is in the system leave all dip switches in the "OFF" position. See FIG. 1. To access dip switches separate module cover from base. Depress the two tabs on the left side of module and lift cover off. See FIG. 5

FIG. 5

Depress Tabs With Small Screw Driver And Lift Cover Off



Note: Dip Switches 1 and 5 are not used on the furnace interface module and should always be in the "OFF" position. Dip switches 2, 3 and 4 match the zones of the main printed circuit board.

D. SYSTEM RESET

After setting the dip switches in the electronic control board and the furnace interface module a system reset will need to be performed.

1. Make sure the Comfort Control Center 2 thermostat is in the "OFF" position. Refer to Comfort Control Center 2 thermostat User's Guide.
2. Simultaneously press and hold the **MODE** and **ZONE** buttons. The LCD will display "Init" and all available zones.
3. Release the **MODE** and **ZONE** buttons.
5. Press the **ON/OFF** button to exit system set-up.

E. SYSTEM CHECKOUT

Adding the Dometic furnace interface module should allow the Atwood two speed furnace to operate as designed when using the Comfort Control Center 2 thermostat. Refer to the Atwood furnace operating instructions and verify operation.

FIG. 4

