



INSTALLATION MANUAL

for

Dometic Power Changeover Kit 3107897.005

A. GENERAL INSTRUCTIONS

All field wiring modifications should be made in compliance with the 1990 ANSI/NFPA 70 N.E.C. and the 1987 ANSI A119.2 for Recreational Vehicles.

The Power Changeover Kit detects the AC voltage and causes a relay to energize for approximately 30 seconds when a change occurs (turned "OFF" or "ON") on up to any of four AC inputs. The relay interrupts the DC power connected to its contacts. In the case of the Dometic Comfort Control Center (CCC), the DC when interrupted forces the CCC to cause a 130 second delay for the compressor to start.

Keep this manual with the unit(s) operating manual(s).

! WARNING

These instructions must be read and understood before installation of this kit. This kit must be installed by a Dometic Service Center or a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

B. INSTALLATION

Location

1. The location should be near the power sources in the recreational vehicle in order to minimize the length of wires needed to connect to the various power sources.
2. Mount the Power Changeover Kit in the desired location.

! WARNING

Disconnect 115 volt AC. Failure to follow these instructions could create a shock hazard causing death or severe personal injury.

! CAUTION

Disconnect the positive (+) 12 volt DC terminal at the supply battery. Damage to equipment could occur if the 12 volt DC is not shut off.

Wiring

1. Route all wiring through the provided strain relief holes on the electrical box. Use a Romex strain relief as required for each set of AC or DC wires.

2. Connect an eighteen (18) gauge wire to the AC supply off the generator, and the inverter. The last two sets of connection points are reserved for shore power inputs. See wiring diagram on page 2

Note: Some coaches use two shore power pig tails.

3. Connect each AC power source (up to four) with black and white 18 gauge wire to the marked terminals on the Power Changeover Kit. See FIG. 1.

4. Route a fused 18 gauge wire from the positive (+) and negative (-) battery terminals to the "+BAT" and "-BAT" on the Power Changeover Kit. See FIG. 1.

5. Use a red jumper wire to connect the "SW IN" terminal to the "+BAT" terminal on the Power Changeover Kit.

6. Connect the "SW OUT" to the red (+12VDC) on the Comfort Control Center (CCC) power module.

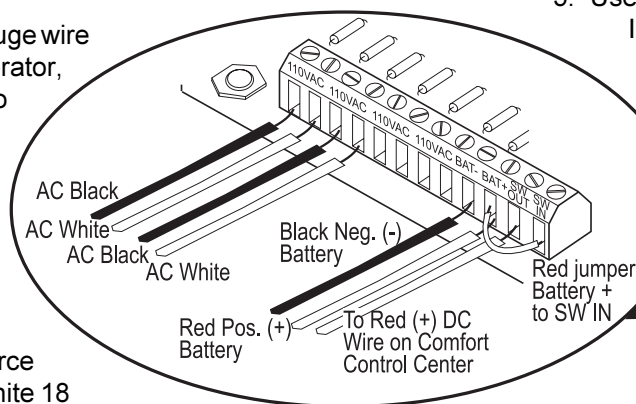
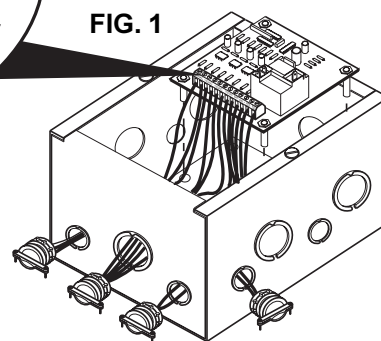


FIG. 1



C. OPERATION

Checkout

1. Restore DC power to the recreational vehicle.
2. Turn on the Comfort Control Center (CCC) and set for "FAN" mode in all zones. (Refer to the CCC operating instructions.)
3. Watch the display on the CCC and restore one of the AC power sources. Notice that the CCC display blanks out for 30 seconds and returns.
4. Allow the fans to start on the appliance.
5. Turn on a second AC power source. The appliance fans will stop operation and the CCC display will blank out for 30 seconds.
6. After the fans resume operation, repeat the process for each AC power source.

Operational Modes

1. After the installation and checkout are completed, the appliances will operate as designed on the CCC control system.
2. **A/C Operation** - Should any one of the 4 (four) AC power sources be turned "OFF/LOST" or "ON/RESTORED" while the compressor is operational, the 30 second interruption of the DC power to the CCC power module will shut down the compressor and fan. When DC power is restored to the CCC power module the fan will start immediately and a 130 second delay will occur before the compressor will restart. The 130 second delay allows the refrigerant pressures to equalize in the sealed system, preventing tripping of AC circuit breakers or cycling of the compressor on the overload.
3. **Heat Pump Operation** - Should any one of the four (4) AC power sources be turned "OFF/Lost" or "ON/Restored" while the compressor is operational, the Dometic power change over system will cause a 30 second interruption of the DC power to the CCC power module. The power module will shut down the compressor and fan. When DC power is restored to the CCC power module, the fan will start immediately and a 130 second delay will occur before the compressor will restart. The 130 second delay allows the refrigerant pressures to equalize in the sealed system, preventing tripping of the AC circuit breaker or cycling of the compressor on the overload.
4. **Fan Operation** - Should any one of the four (4) AC power sources be turned "OFF/Lost" or "ON/Restored" while the compressor is operational, the Dometic power change over system will cause a 30 second interruption of the DC power to the CCC power module. The power module will shut down the fan. When DC power is restored to the CCC power module, the fan will start immediately.
5. **Furnace Operation** - Should any one of the four (4) AC power sources be turned "OFF/Lost" or "ON/Restored" while the compressor is operational, the Dometic power change over system will cause a 30 second interruption of the DC power to the CCC power module. The power module will shut down the fan. When DC power is restored to the CCC power module, the fan will start immediately.
6. **Electric Heat Operation** - Should any one of the four (4) AC power sources be turned "OFF/Lost" or "ON/Restored" while the compressor is operational, the Dometic power change over system will cause a 30 second interruption of the DC power to the CCC power module. The power module will shut down the fan. When DC power is restored to the CCC power module, the fan will start immediately.

WIRING DIAGRAM

