

# **QUICK START KIT**

# Part No. 3102903.006

The Quick Start Kit can be installed on all Duo-Therm roof mounted air conditioners and heat pumps. The Quick Start Kit will allow the compressor to start properly when operated on the Onan 2.8 Micro-Lite Generator as the 120 volt power source.

High ambient temperatures can affect the ability of the roof mounted air conditioner/heat pump to start on generator power.

### The following parts are included in this Kit:

1 ea.	3100235.245	Start Relay	2 ea.	312219.002	Screw
1 ea.	3100236.219	Start Capacitor	1 ea.	3102904.020	Instructions
1 ea.	304750.227	Black Wire	2 ea.	307879.003	Screw
3 ea.	303937.670	Yellow Wire	1 ea.	312096.002	Screw
1 ea.	20009.002	Wire Nut	1 ea.	317188.000	Capacitor Strap
2 ea.	312219.002	Screw			

# **GENERAL INSTRUCTIONS**

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

## **AWARNING**

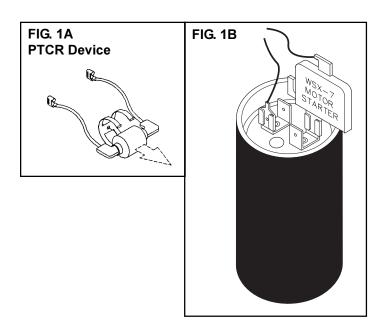
This unit must be serviced by a Dometic Service Center or a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

Read and understand these instructions **BEFORE** attempting to install the Quick Start Kit. Keep these instructions with the air conditioner manuals.

- 1. Turn all AC and DC power off at the circuit breaker.
- 2. Remove shroud from unit and cover from electrical box.
- Locate and completely remove the PTCR device, start capacitor, and their wires. Some models have the PTCR and start capacitor combined into one part, or only have a PTCR device. See FIG. 1A and FIG. 1B.
- **4.** Mount the new start capacitor in the electrical box using the capacitor strap supplied in the kit.

#### **REVISION**

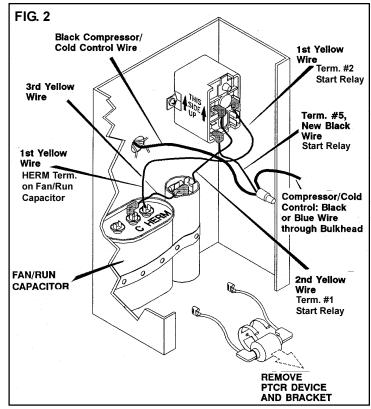
Form No. 3102904.020 1/99 (Replaces 3102904.012)(French 3109075.006) ©1999 The Dometic Corporation LaGrange, IN 46761



- **5.** Determine a suitable location in the units electrical box and the new start relay.
- Locate the wire that supplies the AC power to the overload (Common or "C" terminal) of the compressor.

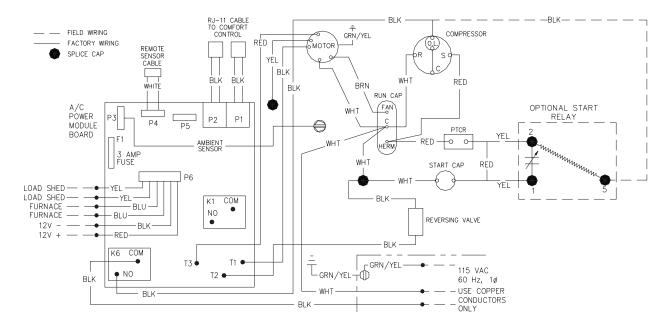
**Note:** Some models have a cold control switch installed in this lead.

- Cut the compressor AC power wire in half inside the electrical box.
- 8. Cut the piggy back terminal off the end of the Black wire supplied with kit. Strip insulation back 1/2" on all three wires and connect together with the wire nut. Using electrical tape, secure with wire nut.
- **9.** Connect the remaining end of the Black wire to the #5 terminal on the new start relay.
- 10. Connect the first yellow wire from the kit and connect the insulated flag terminal to terminal #2 on the new start relay. Connect the other end to the fan run capacitor terminal marked "HERM".
- 11. Connect the insulated flag of the second yellow wire to the #1 terminal on the new start relay. Connect the other end of the second yellow wire to one terminal of the new start capacitor.
- 12. Connect the third yellow wire (non-insulated terminal) to the "C" (common) terminal of the fan/run capacitor. Place the other end of the third yellow wire on the remaining terminal on the new start capacitor.

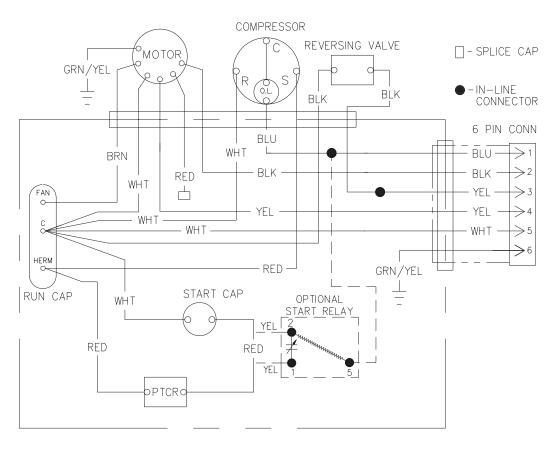


- **13.** Recheck the wiring for loose or shortened terminals and correctness.
- **14.** Replace the electrical box cover and shroud. Turn the AC and DC power supplies back on and test the opera tion of the unit per the Owner/Operator's Manual.
- **15. Keep these instructions** with the Owner/Operator Manuals for future reference.

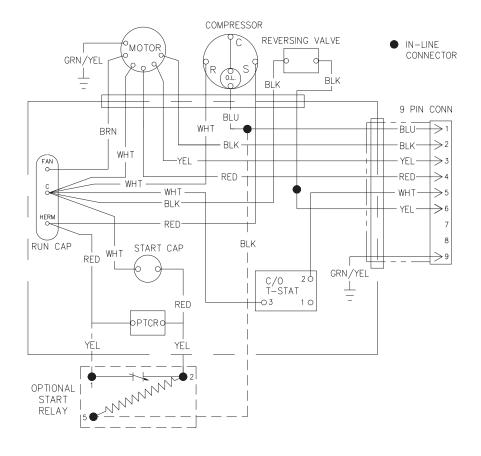
#### WIRING DIAGRAM FOR ROOF MOUNTED HEAT PUMP WITH OPTIONAL COMFORT CONTROL CENTER



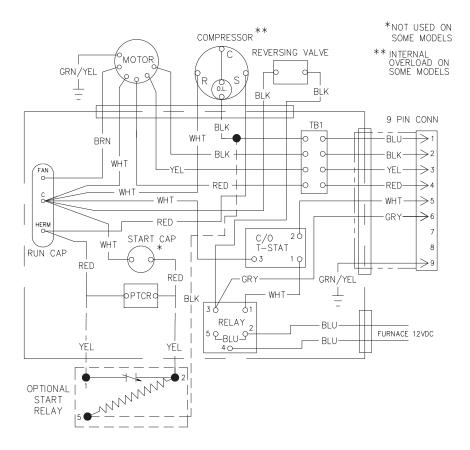
## MODULARIZED ROOF TOP HEAT PUMP OPTIONAL WIRING DIAGRAM



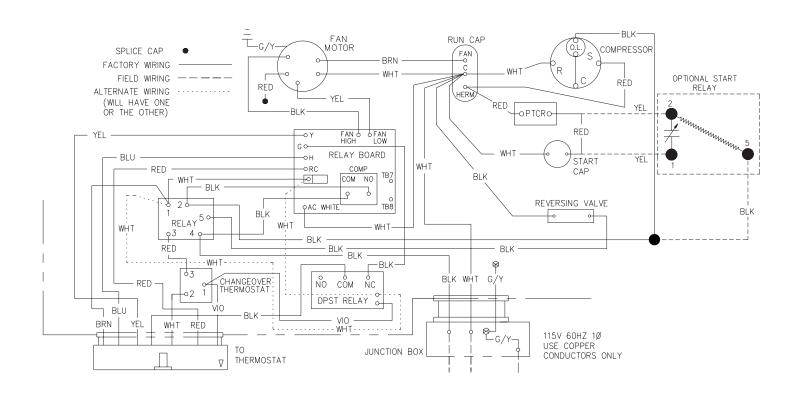
## MODULARIZED ROOF MOUNTED AIR CONDITIONER OPTIONAL WIRING DIAGRAM



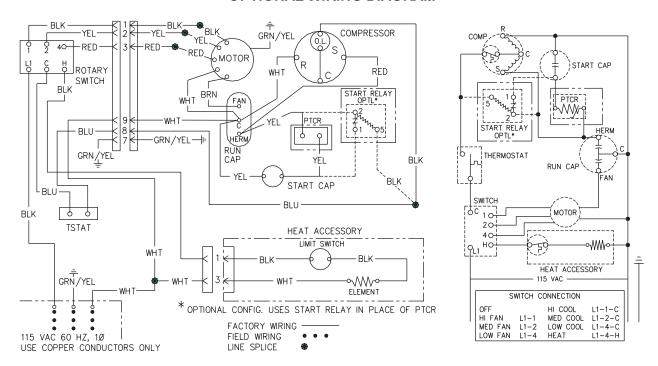
### ROOF MOUNTED HEAT PUMP OPTIONAL WIRING DIAGRAM



### ROOF MOUNTED HEAT PUMP OPTIONAL WIRING DIAGRAM



# ROOF MOUNTED AIR CONDITIONER WITH MECHANICAL CONTROLS OPTIONAL WIRING DIAGRAM



# ROOF MOUNTED AIR CONDITIONER WITH ELECTRONIC CONTROLS OPTIONAL WIRING DIAGRAM

