

# 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.

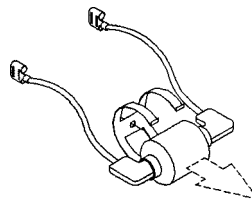
### **⚠ WARNING**

**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.**

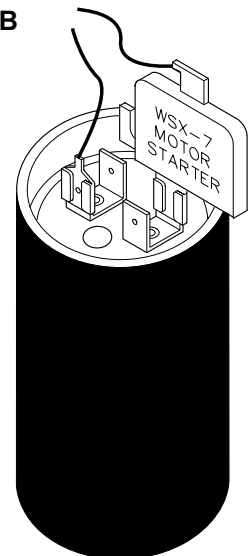
Read and understand these instructions **BEFORE** attempting to install the Quick Start Kit. Keep these instructions with the air conditioner manuals.

1. Turn all AC and DC power off at the circuit breaker.
2. Remove shroud from unit and cover from electrical box.
3. 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.

**FIG. 1A**  
PTCR Device



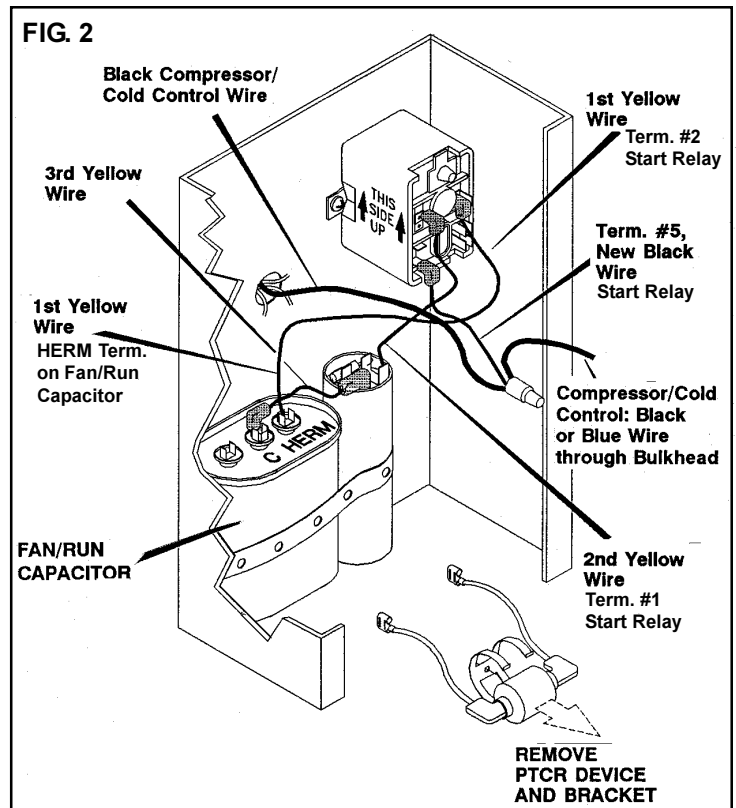
**FIG. 1B**



### REVISION

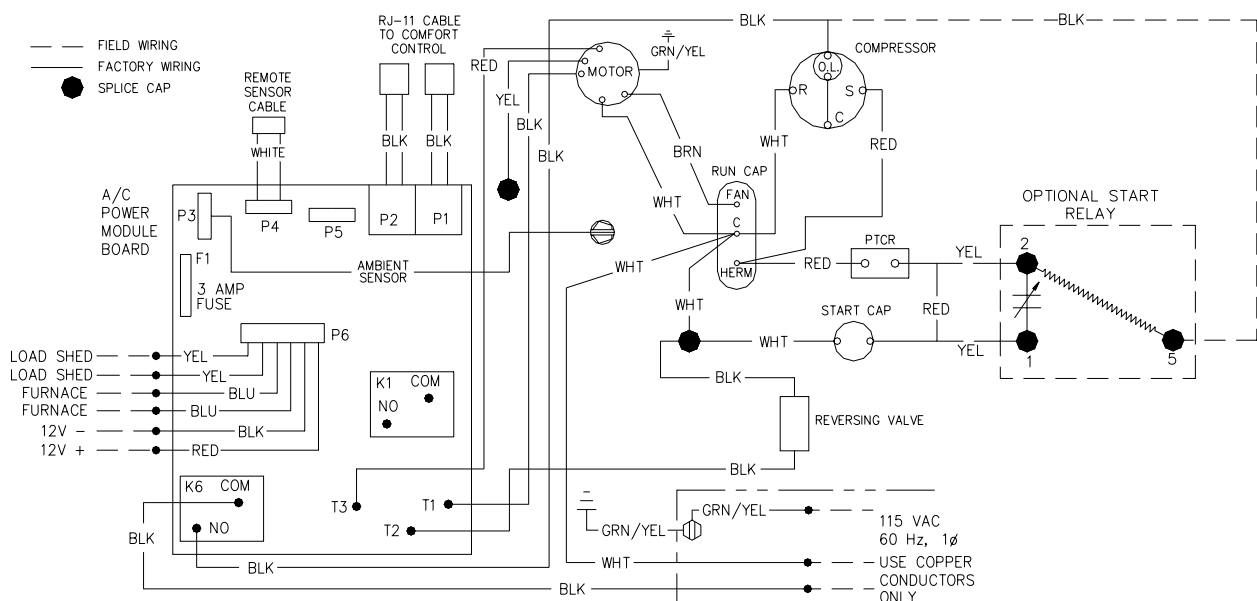
Form No. 3102904.020 1/99  
(Replaces 3102904.012)(French 3109075.006)  
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5. Determine a suitable location in the units electrical box and the new start relay.
6. Locate the wire that supplies the AC power to the overload (Common or "C" terminal) of the compressor.
- Note:** Some models have a cold control switch installed in this lead.
7. 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.

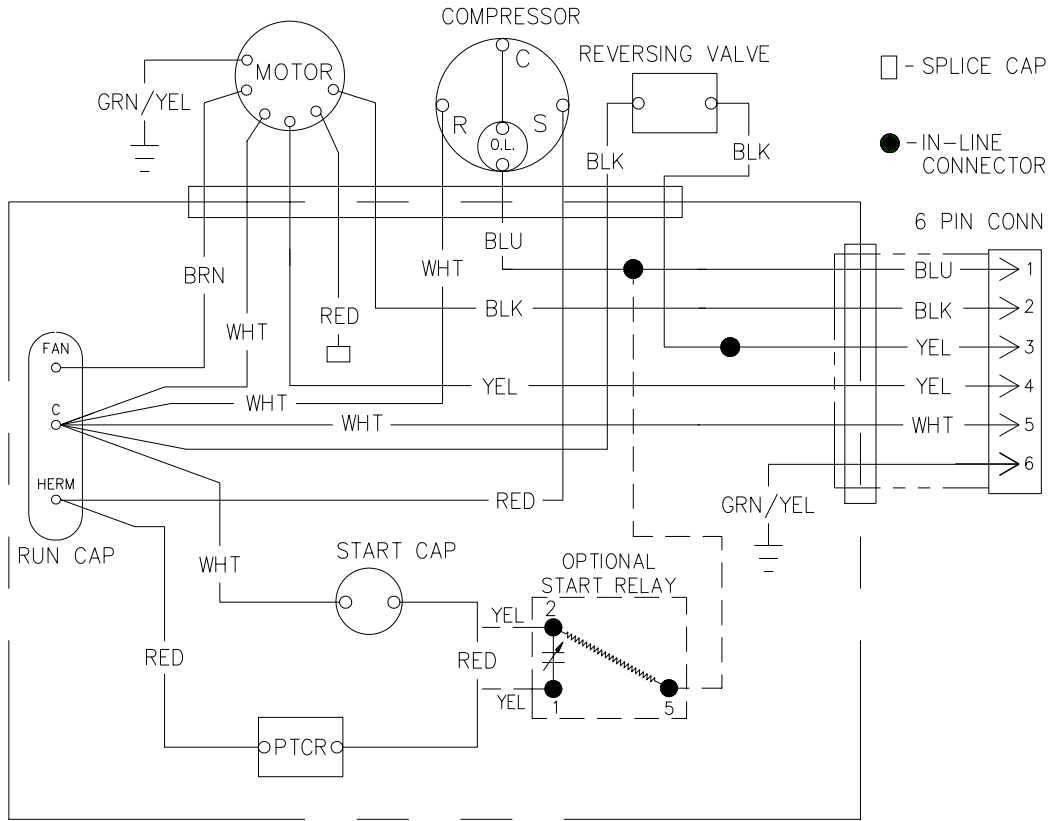


13. Recheck the wiring for loose or shortened terminals and correctness.
14. Replace the electrical box cover and shroud. Turn the AC and DC power supplies back on and test the operation of the unit per the Owner/Operator's Manual.
15. **Keep these instructions** with the Owner/Operator Manuals for future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

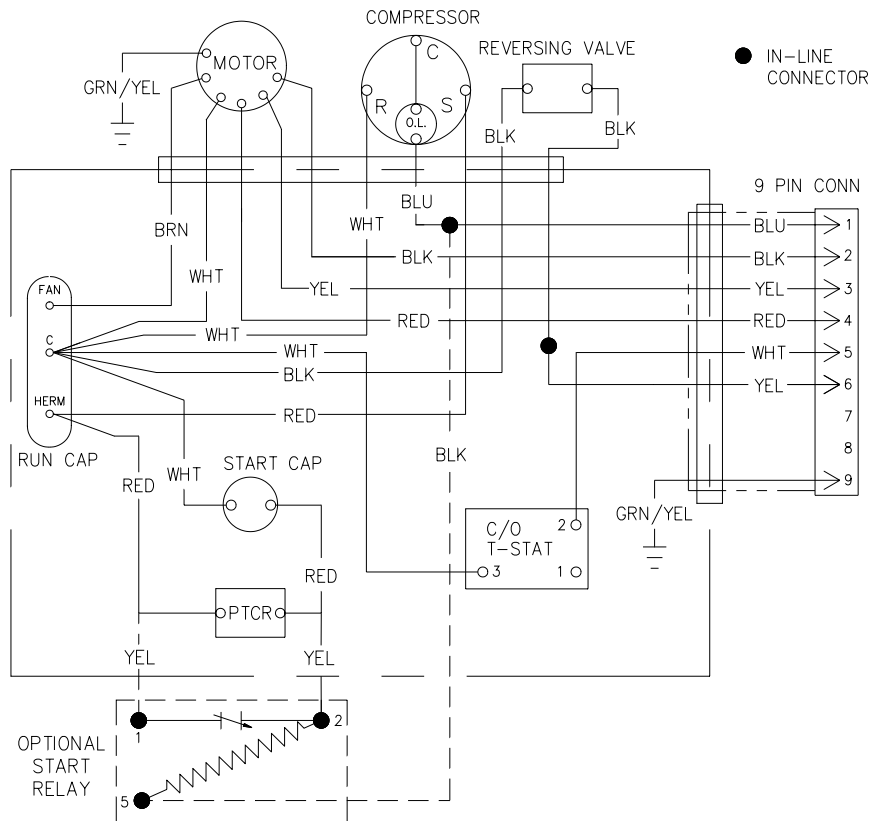
## WIRING DIAGRAM FOR ROOF MOUNTED HEAT PUMP WITH OPTIONAL COMFORT CONTROL CENTER



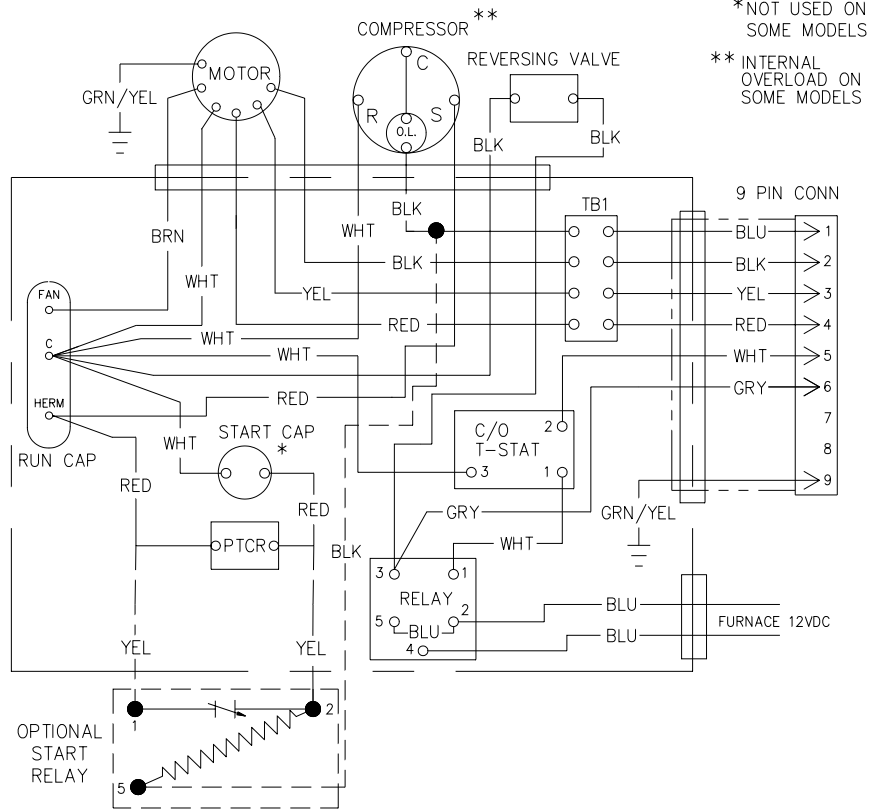
## MODULARIZED ROOF TOP HEAT PUMP OPTIONAL WIRING DIAGRAM



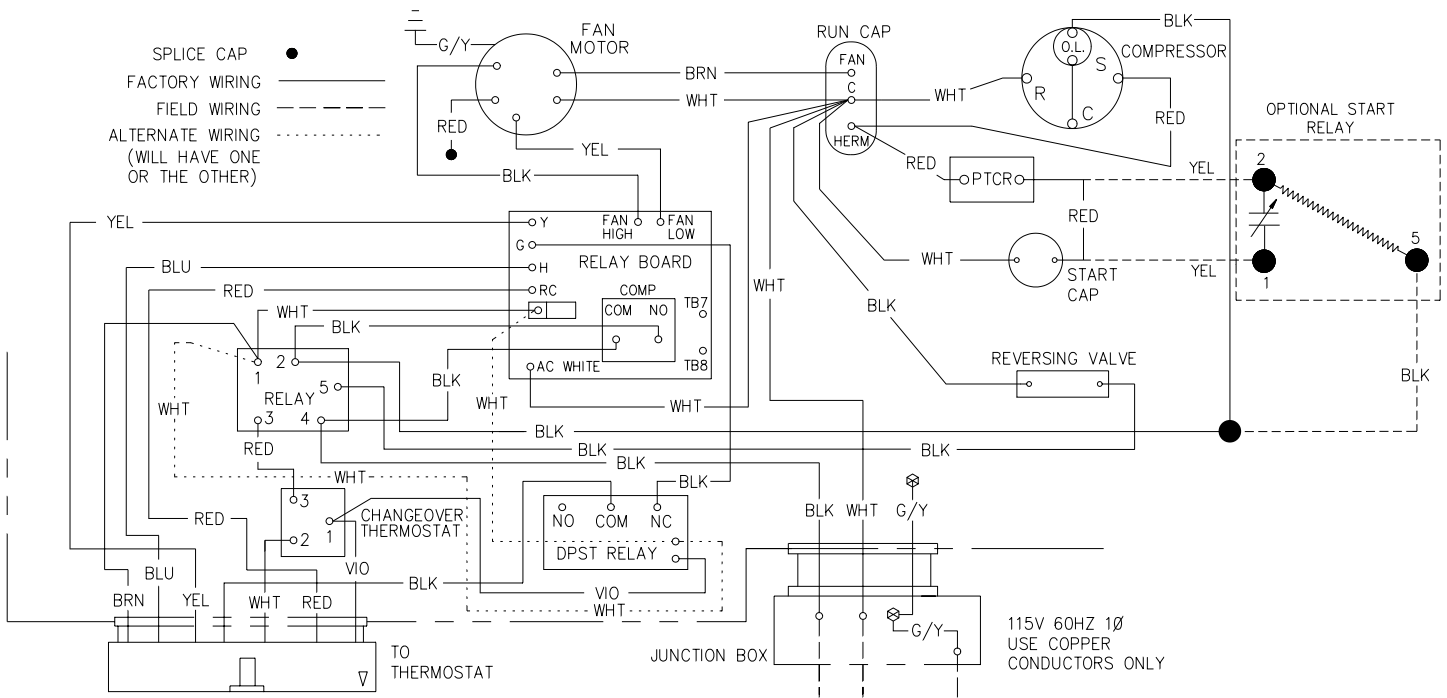
## MODULARIZED ROOF MOUNTED AIR CONDITIONER OPTIONAL WIRING DIAGRAM



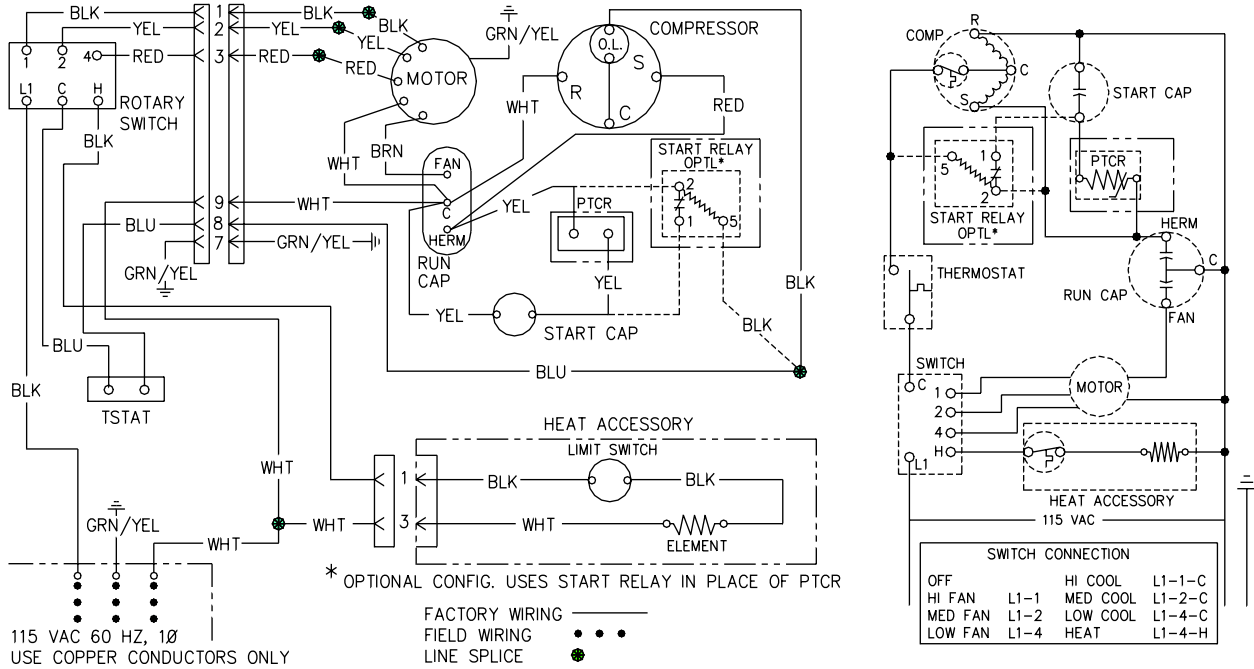
## ROOF MOUNTED HEAT PUMP OPTIONAL WIRING DIAGRAM



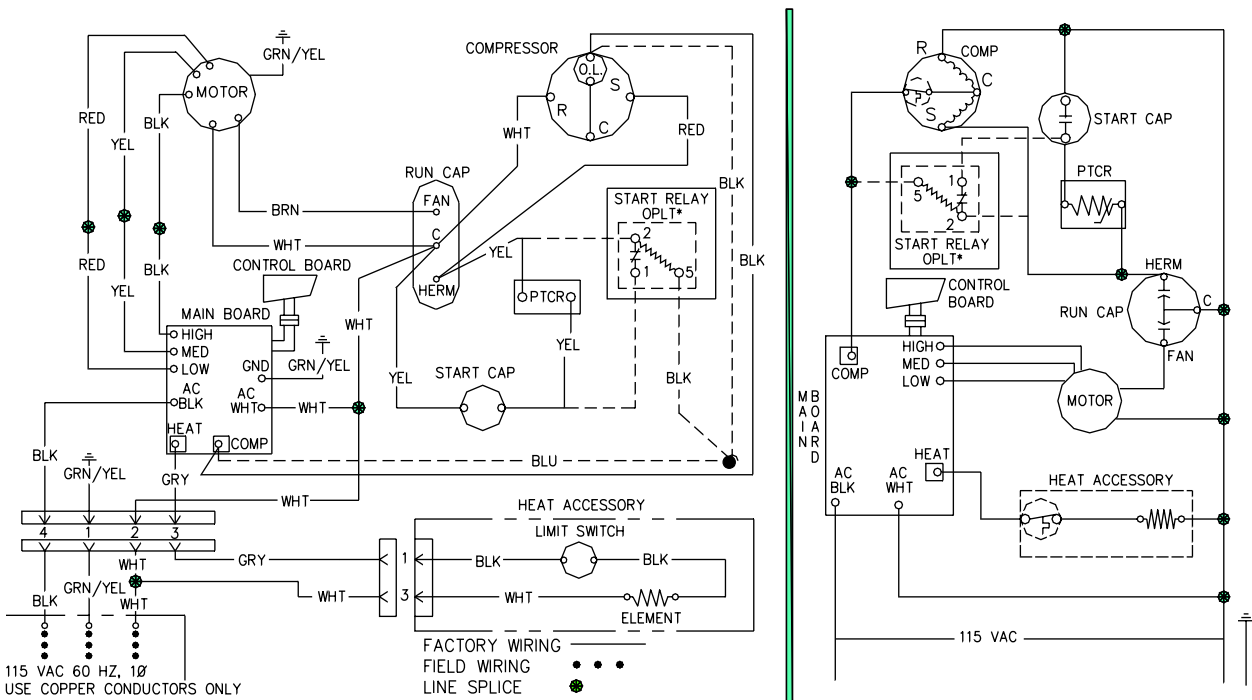
## ROOF MOUNTED HEAT PUMP OPTIONAL WIRING DIAGRAM



## ROOF MOUNTED AIR CONDITIONER WITH MECHANICAL CONTROLS OPTIONAL WIRING DIAGRAM



## ROOF MOUNTED AIR CONDITIONER WITH ELECTRONIC CONTROLS OPTIONAL WIRING DIAGRAM



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Service manuals provided with the understanding that persons using them are well versed in proper safety practices, and are familiar with basic safety procedures, including, but not limited to safety procedures dealing with 120 volt electricity, high amperage 12 volt circuits and LPG (propane) systems.

If in doubt, consult a professional (better safe than sorry).