



# 3307713.002 UPGRADE KIT FOR AIR CONDITIONER MODEL 620215.XXX CONVERSION TO 5 BUTTON COMFORT CONTROL CENTER

THE UPGRADE KIT CONSISTS OF:

Qty.	Part Number	Description
(1)	3109229.009	CCC Power Module Board
(1)	3106958.006	Cable Adapter
(1)	3106958.014	Cable Adapter
(1)	3109228.001	Comfort Control Center
(1)	3100394.224	Fiberglass Sleeve
(1)	3106532.025	Connector Assembly
(1)	3106696.002	In-Line Coupler
(1)	3106614.005	Control Cable
(1)	3109409.001	Sensor, Freeze Control
(1)	3307718.019	Instructions, CCC Upgrade Kit
(1)	3108664.032	Operating Instructions, Comfort Control Center

The 3307713.002 Upgrade Kit is designed specifically for Air Conditioner Model 620215.XXX.

## GENERAL INSTRUCTIONS

All field wiring modification should be made in compliance with the latest edition of ANSI/NFPA 70 NEC and ANSI A119.2 for recreational vehicles.

**NOTE:** The Power Module Board is equipped with dip switches. These switches are in the OFF position when shipped. DO NOT turn switches ON unless instructed.

### ⚠ WARNING

This Manual should be read and understood before installation, adjustment, service or maintenance is performed. This unit must be installed and serviced by a qualified serviceman. Modification of this appliance can be extremely hazardous and could result in personal injury or property damage.

### IMPORTANT

Keep Upgrade Instructions with air conditioner Owner's Manual for future reference.

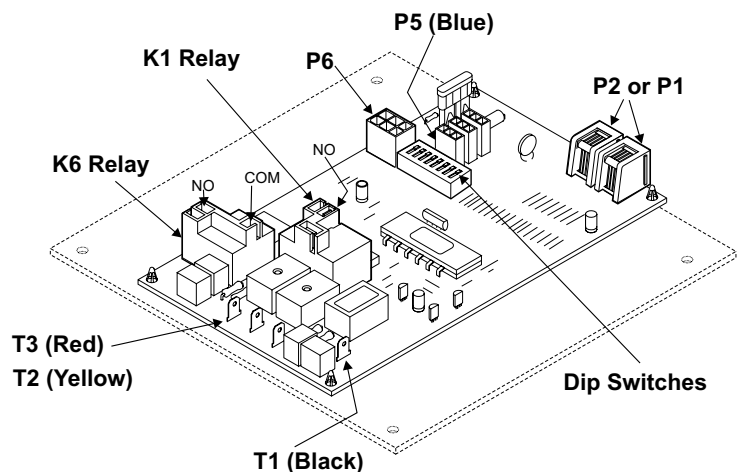
#### REVISION:

Form No. 3307718.019 5/02  
(Replaces 3307718.001)  
(French 3307719.017)  
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LaGrange, IN 46761

### A. PREPARING NEW POWER MODULE BOARD FOR INSTALLATION

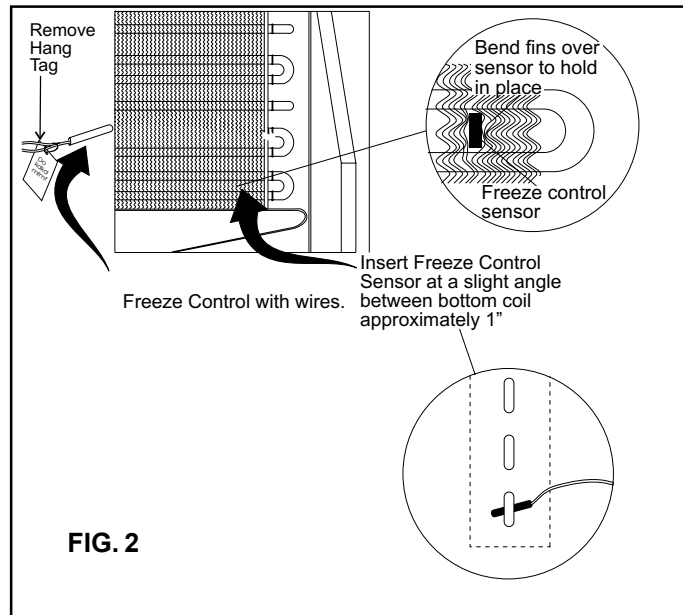
1. Turn OFF all 115V AC and 12V DC power.
2. Remove from air conditioner the shroud, the electric box cover and the evaporator cover.
3. Disconnect all wires from existing Main Board.  
**NOTE:** Before disconnecting wires, identify all wires and their location **OR** remove each wire and install to new Power Module Board one at a time.
4. Disconnect 10 strand cable of board from wall thermostat cable.  
**NOTE:** Electric heater may need moved to gain access.
5. Remove existing Main Board and Freeze Control.
6. Remove new Power Module Board with mounting plate from shipping container.

FIG. 1  
New Power Module Board with Mounting Plate



**Steps 7 through 21, Refer to FIG. 1**

7. Plug connector of (32" Long) 6-Wire Harness to P6 of new Power Module Board.
8. Connect RJ11 Plug of (supplied) Control Cable to P1 or P2 of the Power Module Board.
9. Insert and feed wires of (supplied) control cable and (32" Long) 6-Wire Harness through fiberglass sleeve.
10. Route wires of (supplied) control cable and (32" Long) 6-Wire Harness through hole of bulkhead.
11. Connect black AC wire (incoming) to the "COM" terminal on the K6 relay of the Power Module Board.
12. Connect blue wire from compressor to the "NO" terminal on the K6 relay of the Power Module Board.
13. Connect the red wire from motor to the T3 terminal of the Power Module Board.
14. Connect the yellow wire from motor to the T2 terminal of the Power Module Board.
15. Connect the black wire from motor to the T1 terminal of the Power Module Board.
16. Connect the gray wire from heat strip (if equipped) to the "NO" terminal on the K1 relay of the Power Module Board.
17. Insert the sensor end of the cold control into the evaporator coil 1 inch from the bottom on the right side. Refer to FIG. 2.



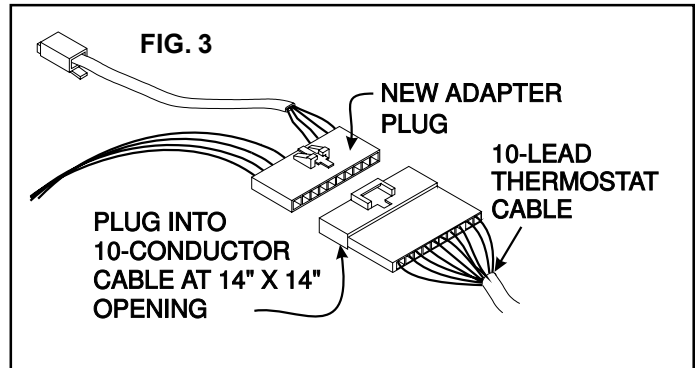
18. Insert and feed connector end of cold control through hole of bulkhead (reseal). Connect cold control to the P5 (blue) plug on the Power Module Board.
19. The Dip Switches on the new Power Module Board must be set to insure Proper operation of the equipment controlled by the original system.
  - a. If the air Conditioner has an Electric Heat Strip Installed, turn "ON" the #1 Dip Switch.
  - b. If the furnace was controlled by the original wall thermostat, turn "ON" #5 Dip Switch.
20. Mount new Power Module Board onto standoff which held old Main Board.

**NOTE:** Visually inspect surface of Power Module Board to ensure wire connections are secure.

21. Replace evaporator cover, electrical box cover, and shroud.

**B. CABLE ADAPTER CONNECTION**

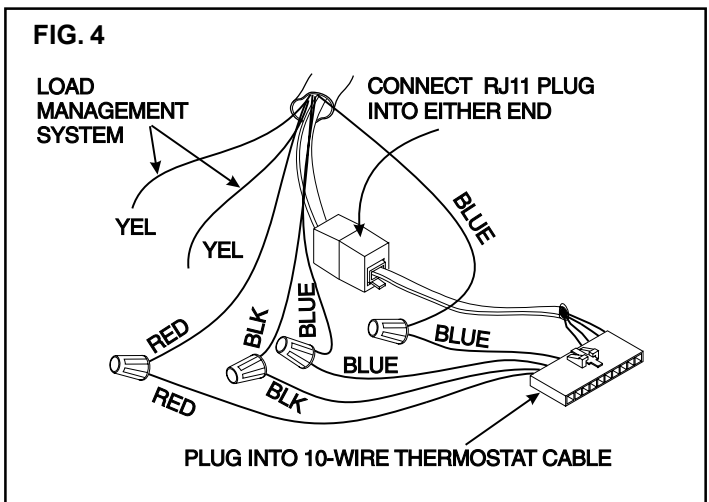
Connection of Cable Adapter for air conditioner to 10-wire wall thermostat cable. (FIG. 3)



1. Connect new Cable Adapter Plug to the 10-wire wall thermostat Cable at the 14" x 14" opening at the bottom of the air conditioner. (Refer to FIG. 3)

**Steps 2 through 6, Refer to FIG. 4**

2. Connect RJ11 plug of new Cable Adapter to the IN-Line Coupler. Connect In-Line Coupler to the (supplied) Control Cable RJ11 plug from Power Module Board.
3. Strip end of blue wires of the (32" Long) 6-Wire Harness. Connect the blue wires of (32" Long) 6-Wire Harness to the blue wires of the Cable Adapter Plug with wire nut (not supplied).
4. Strip end of red wire of the (32" Long) 6-Wire Harness. Connect the red wire of (32" Long) 6-Wire Harness to the red wire of the Cable Adapter Plug with wire nuts (not supplied).
5. Strip end of black wire of the (32" Long) 6-Wire Harness. Connect the black wire (32" Long) 6-Wire Harness to the black wire of Cable Adapter Plug with wire nut (not supplied).



**NOTE:** If applicable, connect the yellow wires to Power Management System. If there is no Power Management System, Cap the yellow wires. See FIG. 4.

6. Route fiberglass sleeve away from heat strip.

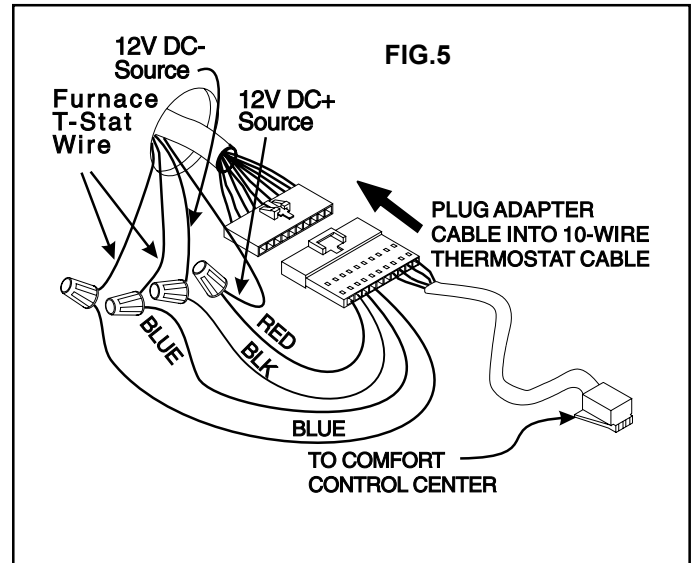
### C. COMFORT CONTROL CENTER CONNECTION

Steps 1 through 7, Refer to FIG. 5

1. If the previous electronic thermostat was used to control the furnace, connect the blue wires of the Cable Adapter to the furnace thermostat wires. Polarity is not important.

**NOTE:** If the previous electronic thermostat was NOT used to control the Furnace, cap blue wires.

2. Connect the Cable Adapter to the wall thermostat cable.
3. Connect the Cable Adapter to the vehicle's 12V DC system (red to 12V DC positive +; and black to 12V DC negative-).
4. Insert and feed RJ11 plug of Cable Adapter through access hole of the Comfort Control Mounting Plate.
5. Connect RJ11 plug on Cable Adapter to Comfort Control Center.
6. Secure Comfort Control Center to wall with screws provided.
7. Turn vehicle AC and DC power "ON".
8. **Do a system reset on the Comfort Control Center:**
  - a. Turn the ON/OFF switch to "OFF" position.
  - b. Simultaneously depress and hold the MODE and ZONE push-buttons while turning the ON/OFF switch to "ON". A "FF" should appear in the LCD display until the MODE and ZONE push-buttons are released.
  - c. When a dip switch is turned ON or OFF after initial configuration, a system reset will need to be done before the Comfort Control Center™ will recognize the updated selection.
9. Test operation of Comfort Control Center. Read and understand Comfort Control Center Operating Instructions before operating.



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I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own RV.

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