

## **3307713.010 UPGRADE KIT**

**FOR AIR CONDITIONER MODELS WITH TOUCH PAD  
OR  
SLIDE BAR CONTROLS  
CONVERSION TO  
5 BUTTON COMFORT CONTROL CENTER**

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### **WARNING**

**This manual must be read and understood before installation, adjustment, service, or maintenance is performed. This unit must be installed by a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.**

# **SERVICE INSTRUCTIONS**

**3307713.010  
UPGRADE  
KIT**

### **REVISION:**

Form No.3307714.026 10/05  
(Replaces 3307714.018)  
(French 3307715.023)  
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LaGrange, IN 46761

## SAFETY INSTRUCTIONS

This manual has safety information and instructions to help users eliminate or reduce the risk of accidents and injuries.

### RECOGNIZE SAFETY INFORMATION



This is the safety-alert symbol. When you see this symbol in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating instructions.

### UNDERSTAND SIGNAL WORDS

A signal word, **WARNING OR CAUTION** is used with the safety-alert symbol. They give the level of risk for potential injury.

**! WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**! CAUTION** Indicates a potentially hazardous situation which, if not avoided may result in minor or moderate injury.

**CAUTION** When used without the safety alert symbol indicates, a potentially hazardous situation which, if not avoided may result in property damage.

Read and follow all safety information and instructions.

## GENERAL INSTRUCTIONS

The 3307713.010 Upgrade Kit is designed specifically for Air Conditioner Models with the power supply built on the board. Boards were built by Control Inc., Sensor & Switches and Harper Wyman.

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.

### **! 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.**

**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.

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

### THE UPGRADE KIT CONSISTS OF:

Qty.	Part Number	Description
(1)	3109229.009	Power Module Board
(1)	3107920.005	DC Power Supply Board
(1)	3106958.006	Cable Adapter
(1)	3106958.014	Cable Adapter
(1)	3109228.001	Comfort Control Center
(1)	3100394.224	Fiberglass Sleeve
(1)	3106696.002	In-Line Coupler
(1)	3106614.005	Control Cable
(1)	3109409.001	Sensor, Freeze Control
(1)	3307714.026	Instructions, CCC Upgrade Kit
(1)	3108664.032	Operating Instructions, Comfort Control Center

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

1. Turn OFF all 120 VAC and 12V DC power.

### **! WARNING**

**Disconnect all power supplies and the positive (+) terminal from the supply battery. Failure to follow this instruction may create a shock hazard.**

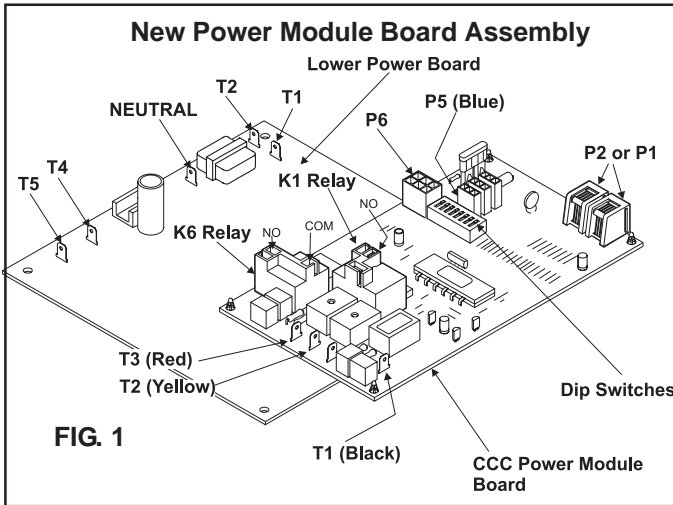
2. Remove from air conditioner the shroud, the electric box cover and the evaporator cover.
3. Disconnect all wires from existing Main Board.

**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.

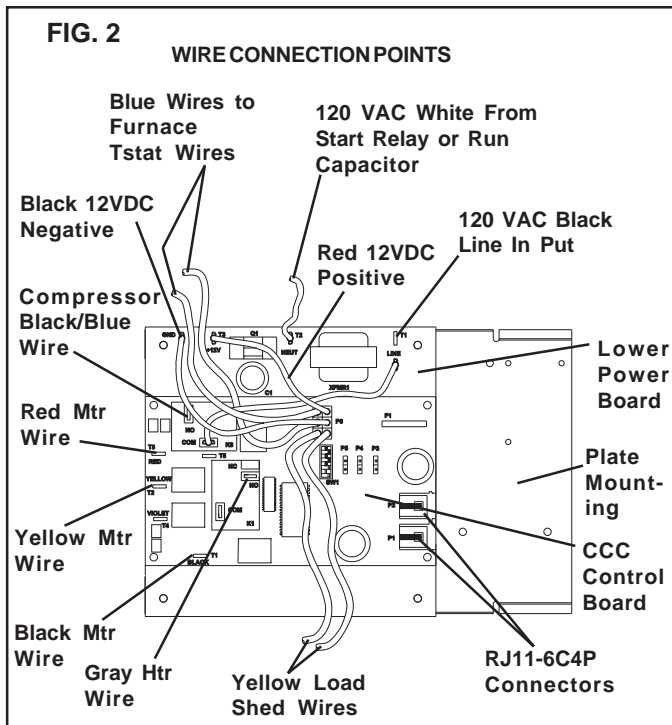
4. Disconnect 10 strand cable of board from wall thermostat cable.

**Note:** Electric heater may need to be moved to gain access.

5. Remove existing Main Board and Freeze Control.
6. Remove new Power Module Board with mounting plate from shipping container. See FIG. 1.



7. Plug connector of (32" long) 6-wire harness to P6 of new Power Module Board. See FIG.2.
8. Connect black wire from the (32" long) 6 wire harness from P6 to the T5 (Ground) terminal of the lower board. See FIG.2.

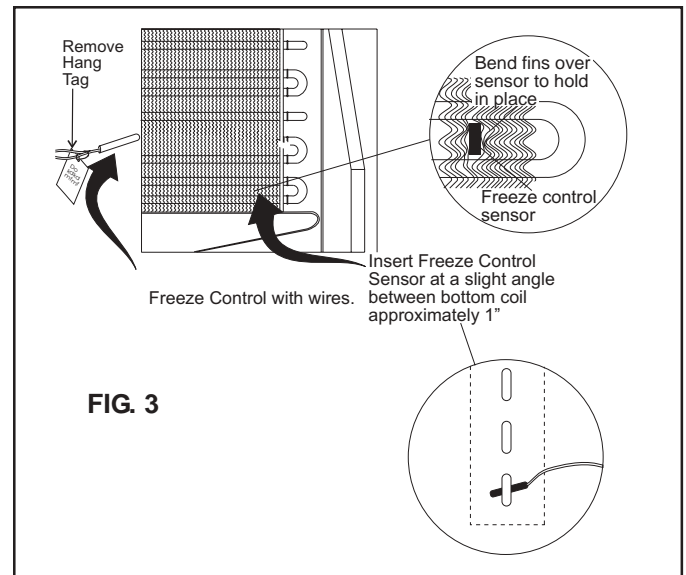


9. Connect the red wire from the (32" long) 6 wire harness from P6 to the T4 (+12V) terminal of the Lower Power Board. See FIG.2.
10. Connect the RJ11-6C4P plug of Control Cable to P1 or P2 of the Power Module Board.
11. Insert and feed wires of control cable and the remaining wires from the (32" long) 6 wire harness on P6 through fiberglass sleeve. See FIG.2.
12. Route the fiberglass sleeve with its wires through hole of bulkhead.

13. Connect black AC wire (incoming AC power) to the "T1" terminal on the bottom Lower Power Board (3107920.005).
14. Connect AC White wire to the NEUTRAL terminal on the Lower Power Board.
15. Connect black or blue wire from compressor to the "NO" terminal on the K6 relay of the top Power Module Board.
16. Connect the red wire from motor to the T3 terminal of the top Power Module Board.
17. Connect the yellow wire from motor to the T2 terminal of the top Power Module Board.
18. Connect the black wire from motor to the T1 terminal of the top Power Module Board.
19. Connect the gray wire from heat strip to the "NO" terminal on the K1 relay of the top Power Module Board.

**Note:** Some models are not designed to use electric heat.

20. Remove existing cold control off of the unit. On some models the cold control is in the 120 volt AC power lead to the compressor. In this situation the cold control **SHOULD NOT BE REMOVED**. If the air conditioner is not equipped with a cold control, then the one supplied with the kit is installed.
21. Insert and feed connector end of cold control through hole of bulkhead. Connect cold control to the P5 (blue) plug on the Power Module Board. Insert the sensor end of the cold control into the evaporator coil 1 inch from the bottom on the right side. See figure 3.



22. If the unit is equipped with electric heat push switch 1 of the dip switch (red block) on the top Module Board to the ON position.

**Note:** Do step 22 only on units with electric heat.

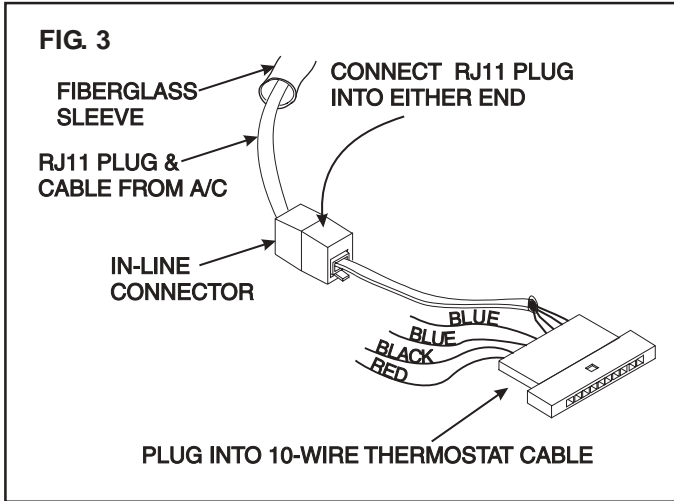
23. Mount new Power Module Board assembly onto standoffs which held old Main Board.

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

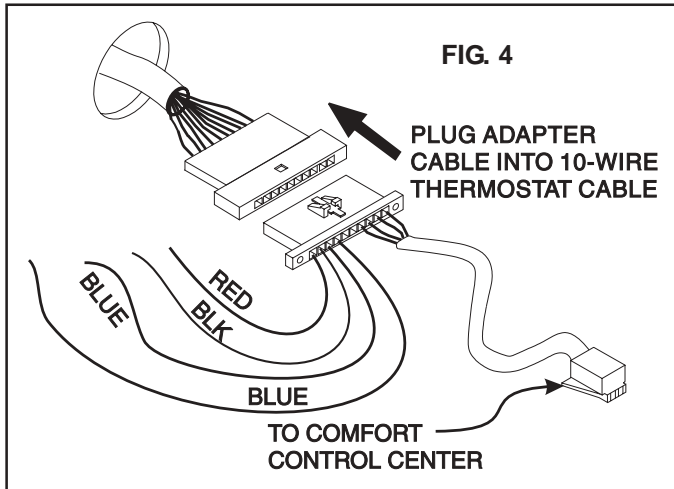
24. Replace evaporator cover, electrical box cover, and shroud.

## B. CONTROL CABLE CONNECTION

Connection of Control Cable for air conditioner to 10-Conductor Cable from the wall thermostat. (FIG. 3)



1. Connect new Adapter Plug to the 10-Connector Cable at the 14" x 14" opening at the bottom of the air conditioner. See FIG. 3.
2. Connect RJ11-6C4P plug on new Adapter cable to the IN-Line telephone Coupler. Connect the flat control cable RJ11-6C4P Plug from the new Module Board into the opposite side of the IN-Line telephone coupler. See FIG. 4.



3. The blue, red and black wires of the new Adapter Cable are not used. Position the wires and fiberglass sleeve away from the heat strip or other objects that can cause damage to it. See Figures 3 and 4. The blue and yellow wires from the 6 wire harness connected to the Power Module Board (P6) are not used. They should be individually capped especially the yellow wire.  
**Note:** A connection between the yellow wires will stop the air conditioner from operation.

## C. COMFORT CONTROL CENTER CONNECTION

1. Connect the Adapter Cable to the 10-Conductor Cable at the wall thermostat. See FIG. 4.
2. Insert and feed the RJ11-6C4P plug of Adapter Cable through access hole of the Comfort Control Mounting Plate.
3. Connect RJ11-6C4P plug on Adapter Cable to Comfort Control Center. Attach Comfort Control Center to the wall mounting plate.
4. Secure Comfort Control Center to wall with screws provided.
5. Turn vehicle 120 VAC and 12 VDC power **ON**.
6. **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.
7. Test operation of Comfort Control Center. Comfort Control Center Operating Instructions included. Read and understand instructions before operating.

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## MODELS USING UPGRADE KIT 3307713.010

37515.001	58925.302	59016.501	620015.405B
37515.002	58925.302A	59016.501A	620015.405C
	58925.302B	59016.501B	620015.406
58915.303	58925.302C	59016.501C	620015.406B
58915.303A	58925.302D	59016.502	620015.406C
58915.303B	58925.312	59016.502A	620015.406D
58915.303C	58925.313	59016.502B	
58915.303D	58925.313A	59016.502C	620115.301
58915.305	58925.313B	59016.503	620115.301A
58915.305A	58925.313C	59016.503A	620115.301C
58915.305B	58925.313D	59016.503B	620115.301D
58915.305C	58925.602	59016.503C	620115.302
58915.305D	58925.602A	59016.505	620115.302C
58915.306	58925.602B	59016.505B	620115.302D
58915.306A	58925.602C		
58915.306B	58925.603	610115.405	620215.301
58915.306C	58925.603A	610115.405B	620215.301C
58915.601	58925.603B	610115.405C	620215.301D
58915.601A	58925.603C	610115.405D	
58915.601B	58925.604		
58915.601C	58925.604B	620015.306	
58915.602	58925.604C	620015.306B	
58915.602A	58925.612	620015.306C	
58915.602B	58925.613	620015.307	
58915.602C	58925.613A	620015.307C	
58915.603	58925.613B	620015.307D	
58915.603B	58925.613C	620015.405	
58915.603C	58925.614		

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Over the years of running a mobile RV repair service, having a dedicated place to access service manuals for all the different appliances and components found on RVs was something that I always had a desire to create.

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.

If in doubt, please consult with a professional RV technician!



DARREN KOEPP - OWNER, MY RV WORKS, INC.

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