

INSTALLATION INSTRUCTIONS

ACF001MKA1

2 SPEED FAN CONTROL KIT

These instructions must be read and understood completely before attempting installation.

BEFORE STARTING INSTALLATION, DISCONNECT ALL POWER TO THE UNIT.

WARNING

Electrical shock hazard.

Turn OFF electric power at fuse box or service panel before making any electrical connections and ensure a proper ground connection is made before connecting line voltage.

Failure to do so can result in property damage, personal injury and/or death.

This kit adds the electronic control board to units shipped with a two speed condenser fan motor, but shipped to only operate on high speed. Not all of the wiring assemblies supplied in the kit will be used.

Recommended Tools

1. Razor Knife
2. Punch
3. Tape
4. Drill
5. #23 Drill Bit
6. 5/16" nut driver

Electronic Control Location/Mounting

The control has three standoff snap pins to mount it inside the control box.

1. Remove Control Box Cover
2. Cut out template from sheet provided

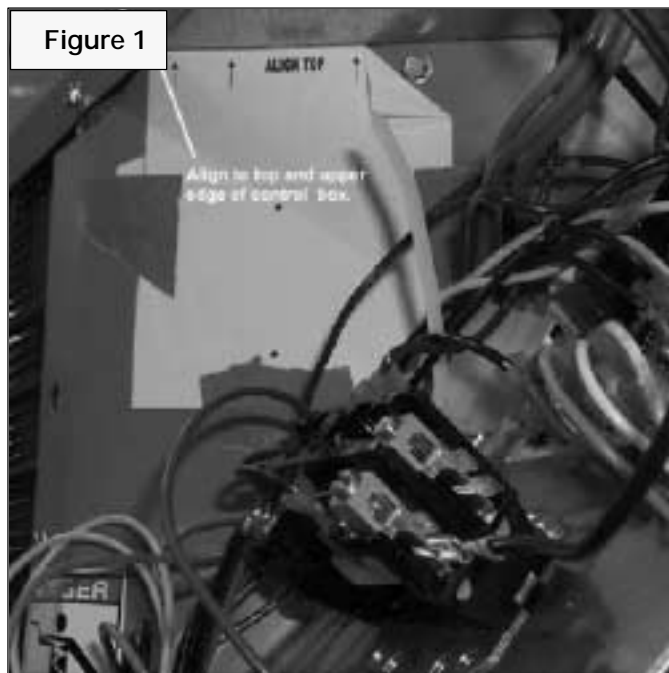
3. Using tape, attach the template as shown in the picture, Fig. 1. Be sure to align to the top and left angled corner of the control box.
4. Using a punch, mark the holes to be drilled, remove the template, and drill the three necessary holes.

CAUTION

Do not allow drill bit to go through too far or the return bends in the refrigerant tubing could be punctured.

5. Open the control package and install it by pressing the standoffs into the drilled holes. They will lock into position.

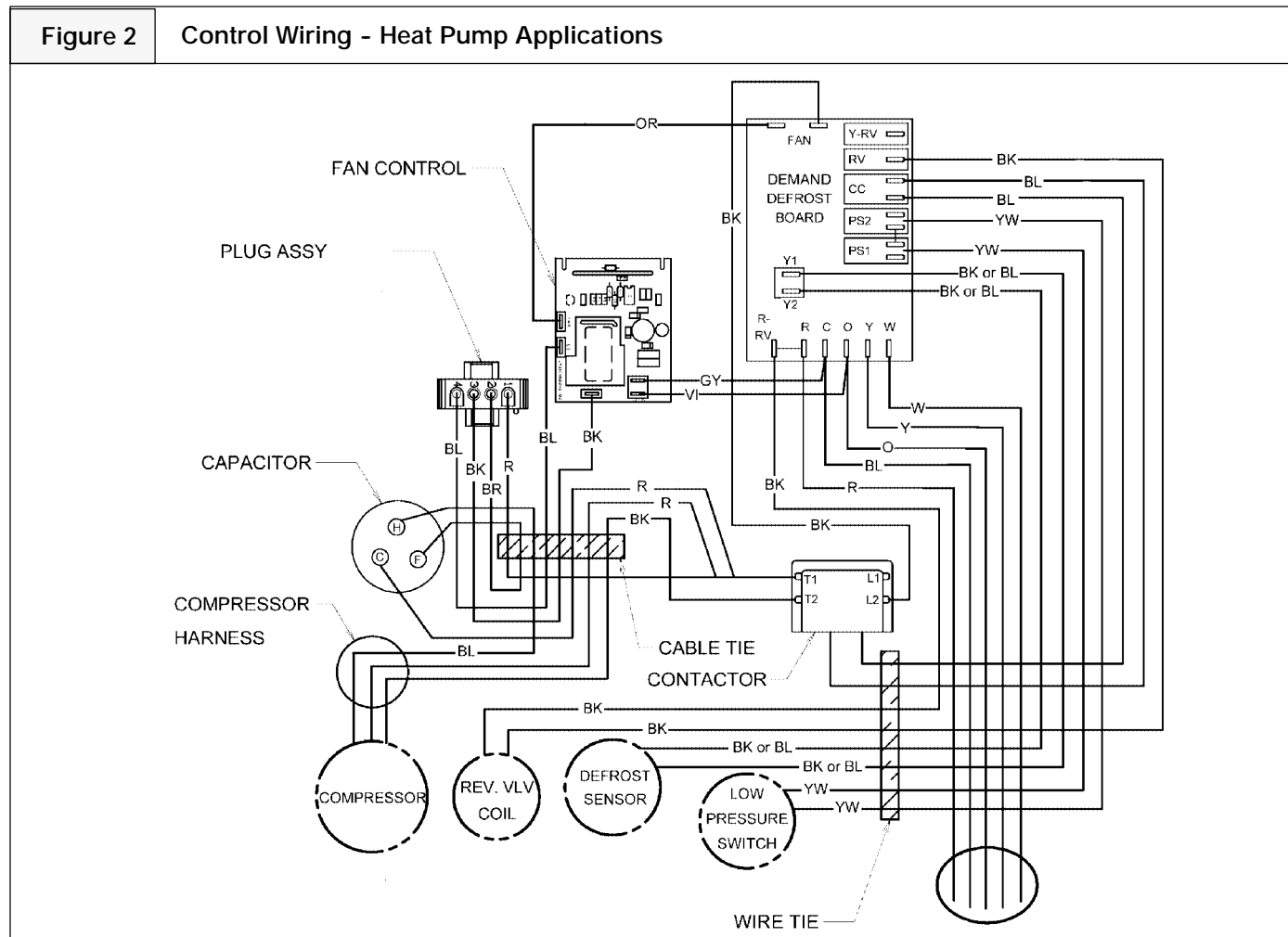
Figure 1



Heat Pump Wiring Connections Figure 2

1. Remove screw from the wire tie clamp immediately behind the contactor and remove it from around the wires. Disconnect the plug going to the condenser fan motor. Disconnect the wires going to the plug and remove plug assembly, BK, BR & R wires. Connect wires

for new plug assembly 1086689. The blue wire (BL) connects to the terminal labeled low on the 2-speed fan control board. The black wire (BK) connects to the terminal labeled high on the 2-speed fan control board. The brown wire (BR) connects to the fan terminal, (F) on the capacitor. The red wire (R) connects first to T1 on the contactor and then to the Com terminal (C) on the capacitor. Reference wiring diagram.



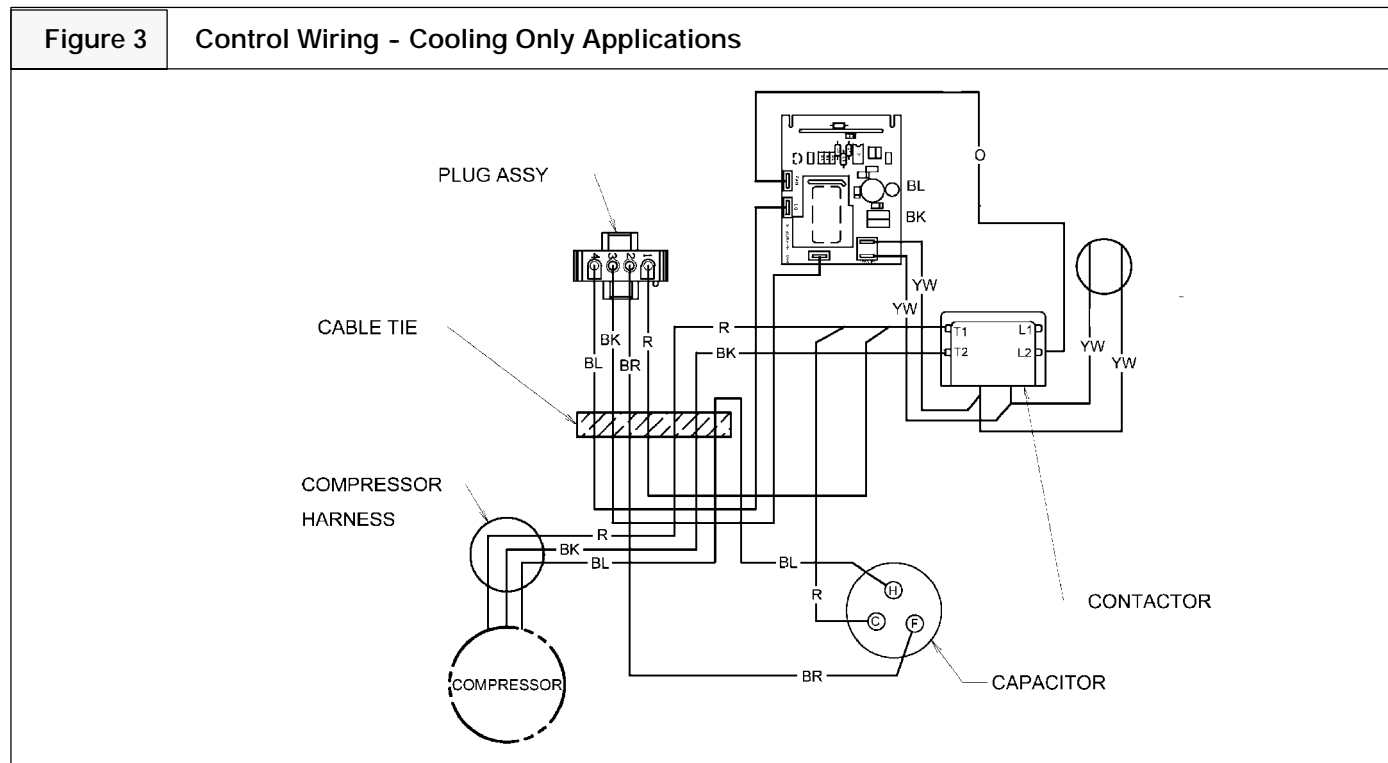
2. Remove the blue wire (BL) from the C position on the defrost board and replace it with the gray and blue wire assembly 1086821. Connect gray wire (GY) to the 24V-Hot terminal on the 2-speed fan control board. Route the blue wire (BL) out of the control box with the other low voltage wires. Reference the wiring diagram.
3. Remove the orange wire (O) from the O position on the defrost board and replace it with the violet and orange wire assembly (1086822). Connect violet wire (VI) to the 24V-Com terminal on the 2-speed fan control board. Route the Orange wire (O) out of the control box with the other low voltage wires. Reference the wiring diagram.
4. Connect new orange wire (1099678), from the fan terminal on the 2 speed control to the open fan terminal on the demand defrost board. Reference the wiring diagram.
5. Bundle wires together and reinstall behind contactor with the provided wire tie.
6. Reconnect fan motor plug.
7. Remove backing from wire diagram label 1086752 and place it over the diagram already present on the back of the control box cover.
8. Make sure wires are pushed back into control box area and install control box cover. Disguard any unused wires.

AC Wiring Connections

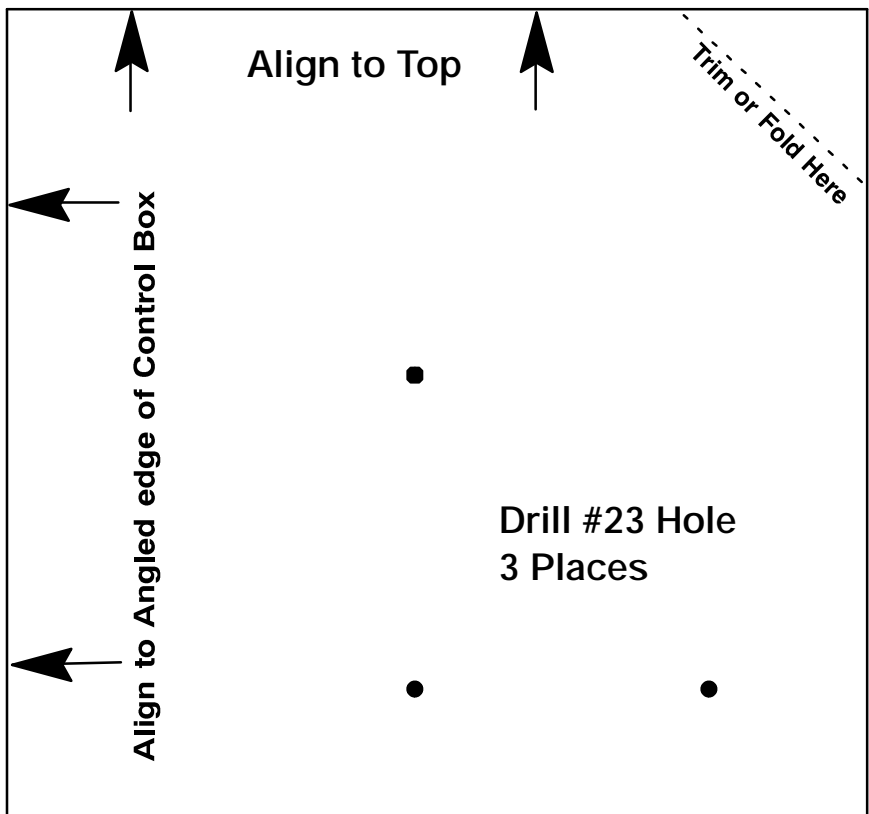
Figure 3

1. Remove screw from the wire tie clamp immediately behind the contactor and remove it from around the wires. Disconnect the plug going to the condenser fan motor. Disconnect the wires going to the plug and remove plug assembly, BK, BR & R wires. Connect wires

for new plug assembly 1086689. The blue wire (BL) connects to the terminal labeled low on the 2-speed fan control board. The black wire (BK) connects to the terminal labeled high on the 2-speed fan control board. The brown wire (BR) connects to the fan terminal, (F) on the capacitor. The red wire (R) connects first to T1 on the contactor and then to the Com terminal (C) on the capacitor. Reference wiring diagram.



2. Connect new orange wire (O), (1099678), from the fan terminal on the 2 speed control to the L2 terminal on the contactor. Reference the wiring diagram.
3. Connect the new yellow wires (1099682), one to the 24V-Hot terminal and the other to the 24V-Com terminal on the 2-speed fan control board. Connect the opposite ends to the low voltage terminals on the coil and one should be connected to one side of the coil and the other to the opposite side of the coil. Reference the wiring diagram.
4. Bundle wires together and reinstall behind contactor with the provided wire tie.
5. Reconnect fan motor plug.
6. Remove backing from wire diagram label 1086032 and place it over the diagram already present on the back of the control box cover.
7. Make sure wires are pushed back into control box area and install control box cover. Disguard any unused wires.



Mounting Template