



Climate Control Solutions

Bard Manufacturing Company, Inc.
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CMH-15

Low Ambient Control

DESCRIPTION

The CMH-15 is a field-installed low ambient fan cycling control kit. The CMH-15 consists of:

1. Installation Instruction 7960-539A
2. Low Ambient Fan Cycling Control 8406-112
3. Relay Assembly 910-1638
4. Screws for securing 910-1638 Relay Assembly
5. Push Mount Cable Tie replacements
6. CMH-15 Unit Label 7961-312-0179

INSTALLATION INSTRUCTIONS

NOTE: IF ALSO INSTALLING A CMH-16 OUTDOOR THERMOSTAT, INSTALL IT FIRST. YOU WILL BE UTILIZING THE CONTACTS OF THE RELAY FROM THAT KIT FOR THIS ONE BY TRANSFERRING THE WIRES ON THE 910-1638 RELAY ASSEMBLY, TERMINALS #1 AND #3, IN THIS KIT TO THE SAME TERMINAL NUMBERS ON THE 910-1640 RELAY ASSEMBLY IN THE CMH-16 KIT.

Disconnect all power to the unit. Remove control panel outer and inner covers, and compressor access panel. Circled numbers on Figure 2 correspond to installation instruction steps. Dashed lines indicate that a wire has been disconnected from this terminal and reconnected to another terminal.

Step 1 Mount control assembly 910-1638 into control panel as shown with screws provided. Figure 2, Step 1.

Step 2 Remove black outdoor fan motor lead from the common terminal of the fan relay on the integrated defrost control board. Route the wire through the wire looms as shown and apply the wire to the #3 terminal of the 910-1638 relay assembly. Figure 2, Step 2.

Step 3 Route the black and blue wires from the coil terminals of the 910-1638 relay through the wires looms as shown. Secure the blue wire to the "B" terminal and the black wire to the "C" terminal of the integrated defrost control as shown. Figure 2, Step 3 and Step 4.

Step 4 Mount 8406-112 Low Ambient Fan Cycling control onto the units liquid line (between compressor and control panel) after first removing the service port cap. Check for leaks at the connection after snugging the fitting down. Figure 2, Step 5.

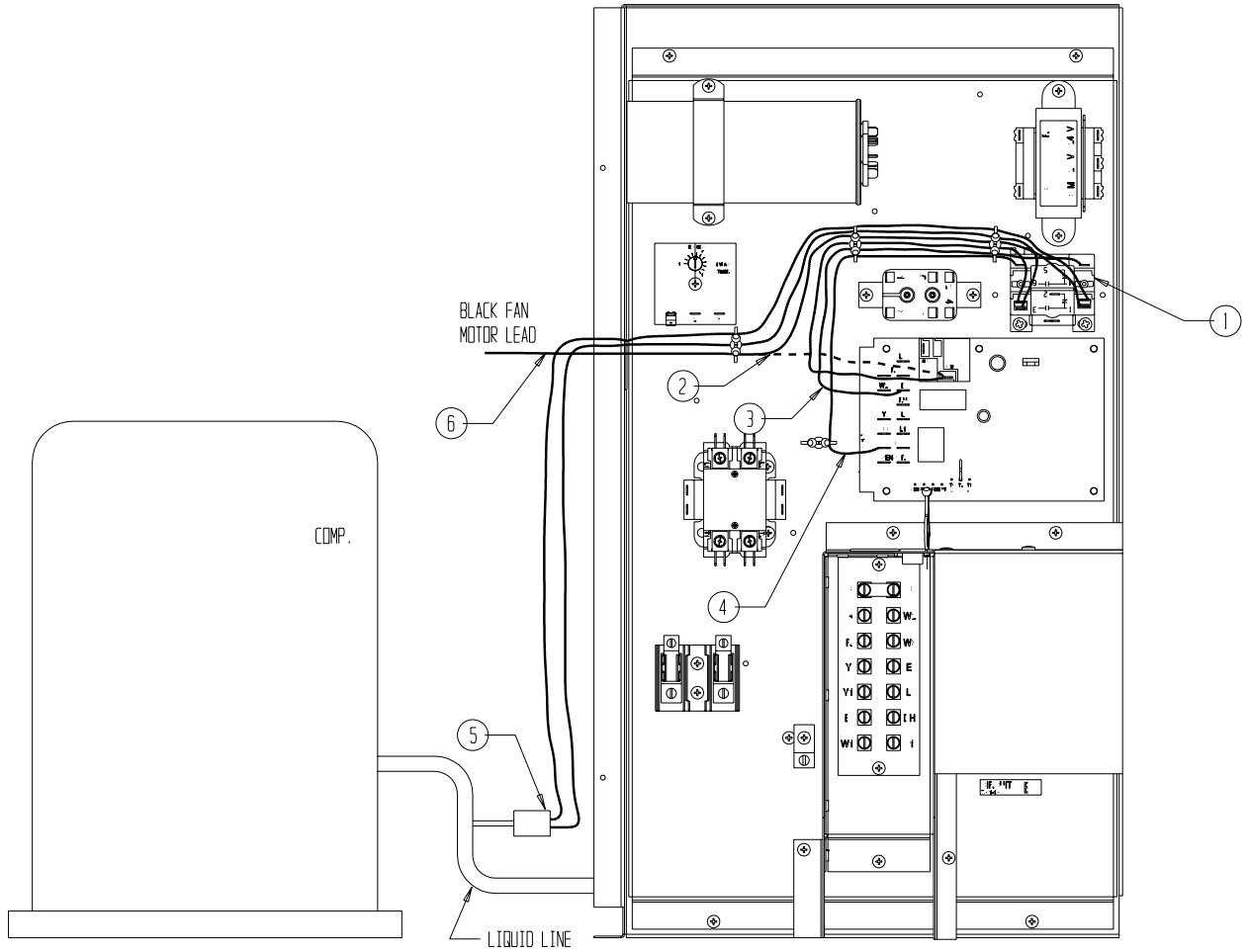
Step 5 Route wires from Low Ambient Fan Cycling Control up the side of the control panel. Open up the permagum where the wires penetrate the side of the control panel and route the wires through the bushing and wires looms as shown. Connect the wires to terminal numbers #1 and #3 of the relay assembly 910-1638. Pull any remaining slack in the wires back into the compressor compartment and secure the wires with the other wires in that compartment. Replace the push mount cable ties as needed with the new ones supplied with this kit. Re-seal the permagum around wires once installation is complete. Figure 2, Step 6.

Step 6 Recheck all wiring. See Figure 1. Check for proper operation of the unit by energizing in cooling mode. The condenser fan motor should not run until the refrigerant liquid pressure has exceeded 350 PSI. Should the liquid pressure fall below 225 PSI while running, the condenser fan motor will de-energize until the head pressure builds to 350 PSI. Switch to heating mode. The condenser fan motor should run anytime the compressor is running regardless of refrigerant liquid pressure. Run unit through defrost cycle. The condenser fan should de-energize during the defrost cycle.

Step 7 Apply the 7960-312-0179 Label "This unit equipped with CMH-15 control module" label to the inside of the inner control panel cover above the wiring diagram.

Step 8 Replace all panels and covers. This completes the installation.

FIGURE 2



MIS-2169