

Installation Instructions

22322401 TIME DELAY RELAY REPLACEMENT

Description

The Electronic Blower Time Delay Relay Kit (EBTDR) is a replacement kit for PHB, PHD, and PCC units equipped with the old style sequencer (BDK01A) cooling switch relay. Read and follow these instructions carefully before replacing the control board. Failure to do so could result in control board damage.



WARNING

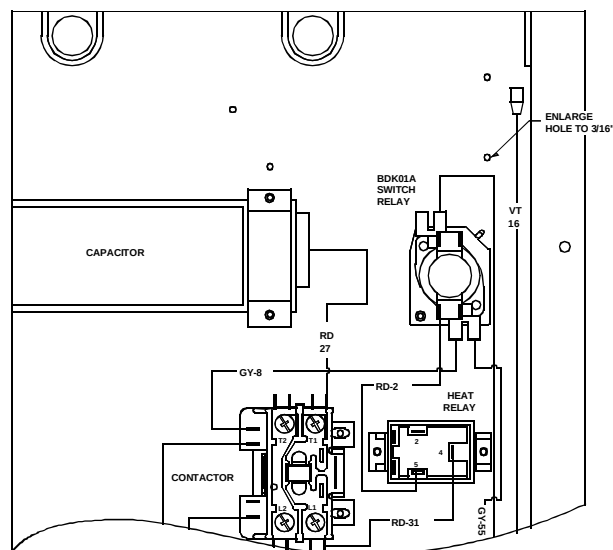
To avoid property damage, personal injury or death due to electrical shock, disconnect the electrical power supply before servicing this unit.

Kit Contents:

- 1 - B1370735 Electronic Blower Time Delay Relay (EBTDR) Board
- 1 - 20491439 WH7 (White 7) wire
- 1 - 20491440 RD22 (Red 22) wire
- 2 - B1393802 Two-Prong Standoffs
- 2 - B1393803 Single Prong Standoffs
- 1 - 22322501 Installation Instructions
- 1 - 22322601 Wiring Diagram
- 1 - 22322701 Wiring Diagram

BDK01A Relay Removal:

1. Disconnect electrical power to the unit.
2. Remove control cover.
3. Remove wiring from BDK01A. Discard RD2 (Red-2) wire that connected BDK01A "Common" to terminal "5" on heat relay.



4. Remove BDK01A mounting screw and BDK01A.



RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION

ATTENTION INSTALLING PERSONNEL

As a professional installer you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

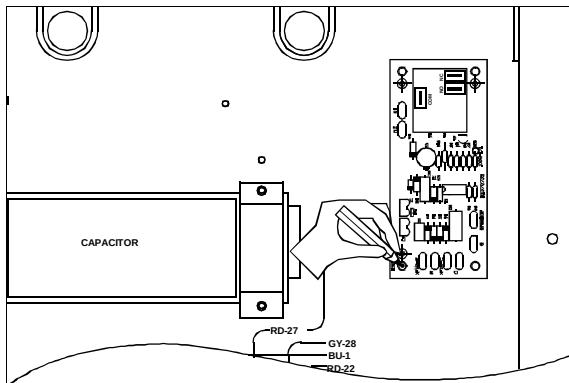
Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them.

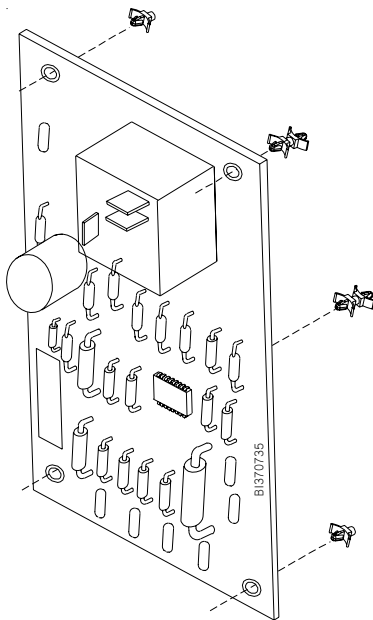
The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.

Installation:

1. Enlarge sequencer mounting hole (second hole down from top right side of control box) to 3/16".
2. Place new control board over enlarged mounting hole and mark diagonal hole.



3. Drill 3/16" hole where marked.
4. Insert the 2 two-pronged standoffs in a diagonal pattern, into the new control board, to match holes in the control box. Next insert the single pronged standoffs.



5. Snap control board into the control box.

Wiring [Heat Pumps]:

Connect RD24 (Red-24) wire to normally open terminal of new control board relay.

Connect OR28 (Orange-28) wire from thermostat terminal block to "G" terminal on new control board.

Connect GY55 (Gray-55) wire from thermostat terminal block to "C" terminal on new control board.

Connect GY8 (Gray-8) from contactor to "XFMR-C" on new control board.

Connect supplied WH-7 (White-7) wire to "R" terminal of thermostat terminal block and "R" terminal of new control board.

Connect RD-22 (Red-22) wire to "5" terminal of electric heat relay and common terminal on new control board relay.

Place 22322601 wiring diagram over existing wiring diagram.

Wiring [Coolers]

Connect RD24 (Red-24) wire to normally open terminal of new control board relay.

Connect GY28 (Gray-28) wire from thermostat terminal block to "G" terminal on new control board.

Connect BU7 (Blue-7) from thermostat terminal block to "C" terminal on new control board.

Connect BU1 (Blue-1) from contactor to "XFMR-C" on new control board.

Connect supplied WH-7 (White-7) to "R" terminal of thermostat terminal block and "R" terminal of new control board.

Connect supplied RD-22 (Red-22) wire to "5" terminal of electric heat relay and Common terminal on new control board relay.

Place 22322701 wiring diagram over existing wiring diagram.

HEAT PUMP

