## THE FIELD CONTROL COMPANY

### **MODEL RJR-5 24 VOLT RELAY KIT:**

This device **MUST** be installed by a qualified installer in accordance with the manufacturer's installation instructions. Wiring **MUST** be in accordance with the National Electrical Code and applicable local codes.

#### ITEMS SUPPLIED WITH THIS KIT:

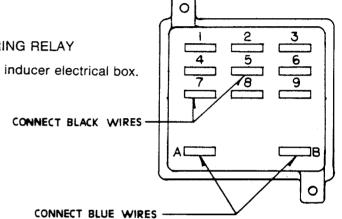
- 1- 24 Volt relay
- 1- Relay base
- 2- #8 sheet metal screw
- 2- 5 inch black wire leads
- 2- 5 inch blue wire leads
- 1- Retaining wire

Figure 1

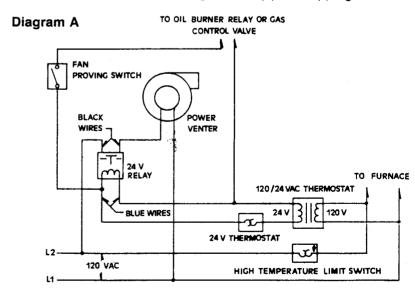
# **INSTALLATION PROCEDURE FOR 24 VOLT RELAY KIT:**

CAUTION: DISCONNECT ELECTRICAL POWER WHEN WIRING RELAY

- 1. Remove square knockout in side of power venter or draft inducer electrical box.
- Install wires into relay terminal base. Connect the two (2) blue wires to the terminals marked A and B; and the two (2) black wires to the terminals 5 and 7 (See Figure 1). Check terminals before installing relay base into electrical box to assure that the wires are connected properly.



- 3. Install relay base with wires into the square knockout in the electrical box using the two (2) self-tapping screws.
- 4. Wire relay base into power venter circuit according to wiring Diagram A. The (Blue wires) are connected to terminals A and B on the relay base and connected into the 24 volt AC thermostat circuit. The (Black wires) are connected to terminals 5 and 7 on the relay base and connected into the 120 volt (Line voltage) circuit.

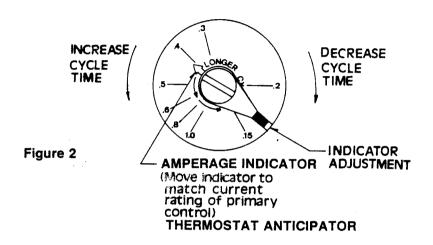


5. Install relay by pushing relay into relay base and secure it with retaining wire.

6. After installation, re-connect electrical power and follow appliance manufacturer's instruction to light appliance. Adjust appliance thermostat to call for heat and let the appliance cycle 2 to 3 times to assure proper operation. **CHECK** amperage through thermostat circuit and adjust thermostat anticipator accordingly. (See instruction below)

#### ADJUSTING THERMOSTAT ANTICIPATOR:

Disconnect one side of the thermostat circuit at the gas valve or burner control, and connect an ampere meter into the circuit. With the system running, take an amerage reading on the circuit. Check the nameplate or instructions for the thermostat to obtain the proper amperage level. Adjust amperage level by moving the anticipator lever. Reconnect the thermostat to the gas valve and start the system operating. Time the burn cycles and adjust as follows: To make the cycle time longer, increase the amount on the anticipator (Example: .45 to .5 AMPS); to decrease cycle, time reduce the amount on the anticipator (Example: .45 to .3 AMPS) (See Figure 2).



Please refer to THE OWNER'S MANUAL or consult factory for complete system installation and safety instructions, multiple venting systems, trouble shooting hints and maintenance instruction.

THE FIELD CONTROLS CO. 2308 AIRPOR RD. KINSTON, NC 28501