



## RELAY KIT #43274020

For Models: SIR25-45

**THIS KIT IS FOR THE FIELD INSTALLATION OF A 24-VOLT THERMOSTAT FOR OPERATION OF A SINGLE HEATER.**

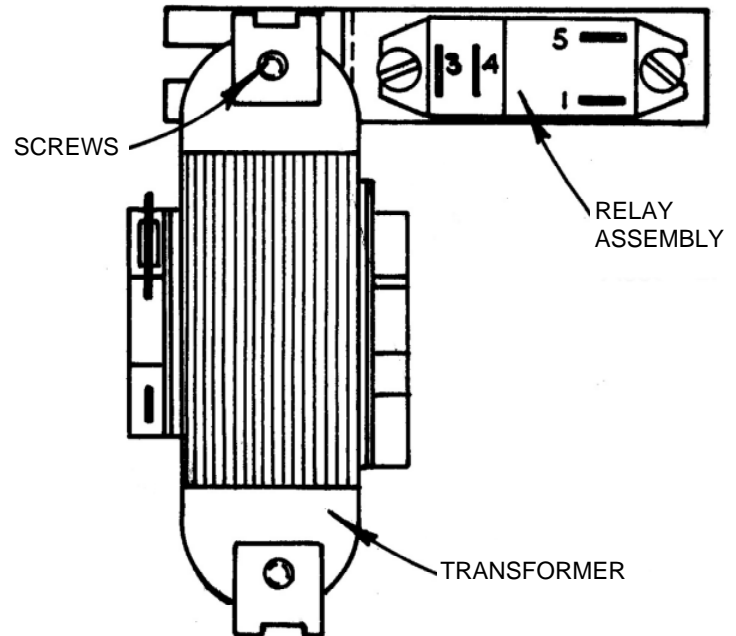
RELAY KIT #43274020	
PART NO.	DESCRIPTION
03139040	3/16" Slide Terminal
30200010	Ring Terminal
30399000	1/4" Terminal Adaptor
42706990	Wire Connection Diagram
43276000	Relay Sub-assembly
43277020	Form, Installation Instructions

### INSTRUCTIONS:

**▲WARNING:** DISCONNECT THE ELECTRIC POWER TO THE HEATER AND SHUT OFF THE GAS SUPPLY TO THE MANIFOLD CONTROL BEFORE MAKING THIS CHANGE.

- Loosen the screws of the transformer as shown in the illustration. Slide the bracket of the relay assembly under the transformer and retighten the screws.
- Disconnect the motor wire lead from L1 of the terminal block. Cut off the old 1/4" slide terminal and replace it with the 3/16" slide terminal supplied in this kit. Reconnect this wire lead to the No. 4 terminal on the relay.
- Disconnect the wire lead of the red light from the terminal adaptor of the transformer. Cut off the old 1/4" slide terminal and replace it with the ring terminal supplied in this kit. Connect this wire lead to the ground screw (green coated screw) located above the terminal block.
- Remove and discard the wire lead that is connected between the transformer and the air pressure switch.
- Place the terminal adaptor supplied in this kit on the free terminal of the air pressure switch.
- Connect the black wire lead located at the No. 3 terminal of the relay to L1 of the terminal block.
- Connect the red wire lead located at the No. 5 terminal of the relay coil to the new terminal adaptor on the air pressure switch.
- Connect the white wire lead located at the No. 1 terminal of the relay coil to the existing terminal adaptor on the transformer.
- Connect the new 24-volt thermostat (supplied as an accessory) with one lead connected to the terminal adaptor on the air pressure switch and the other lead to the free terminal on the transformer.
- Place the new adhesive-backed wiring diagram supplied in this kit over the existing wiring diagram.

**NOTE:** All field wiring connections are indicated by dotted lines on the Wiring Diagram provided in this kit.



# WIRING DIAGRAM FOR RELAY KIT #43274020 (Models SIR25-45)

## CONNECTION WIRING DIAGRAM

### DIRECT SPARK IGNITION

**NOTES:**

1. If any of the original wire as supplied with the appliance must be replaced, it must be replaced with wiring material as follows:
  - HIGH VOLTAGE CABLE: Prestolite 171053
  - ALL OTHER WIRING: 18 Ga.-UL-600V-105°C (CSA-600V-Type TEW).
2. When connecting the supply circuit\* to the heater, wiring material having a minimum size of 14 AWG and a temperature rating of at least 105°C shall be used.

