

ASSEMBLY and INSTALLATION INSTRUCTIONS



Electrical Socket & Relay Kit Kit Part No. 500-24492

View these instructions online at www.lbwhite.com

Kit Contents:

Description	Quantity
Instructions	1
Box, Electrical Socket	1
Gasket, Socket	1
Motor Relay Assembly	1
Lead, Green, 14 in.	1
Lead, Black, 18 in.	1
Terminal, 1/4 in. Female, Insulated	3
Screws, 1/2 in.	4
Screws, 3/8in. Sheet Metal	2
Nut	1
Wiring Diagram	1

Tools required:

- Standard Screwdriver
- 1/4 in. Nut Driver
- Electrical Crimping Tool
- Voltage Tester

Qualifications:

- You must be able to read and understand these instructions.
- You must have sufficient training and experience to change the electrical wiring as discussed and install components in kit.
- You must be able to test the heater for proper operation and place the heater in a continuing safe and normal operating condition.

Initial Preparation:

1. Open the burner end access panel.
2. Remove the hole plug at case side. See Fig. 1.

FIG. 1

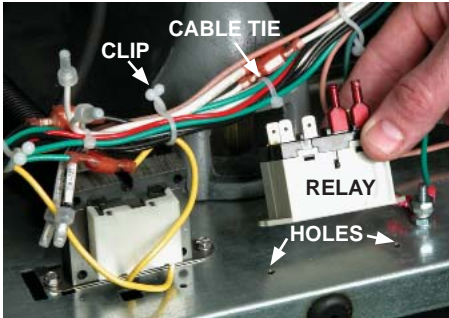


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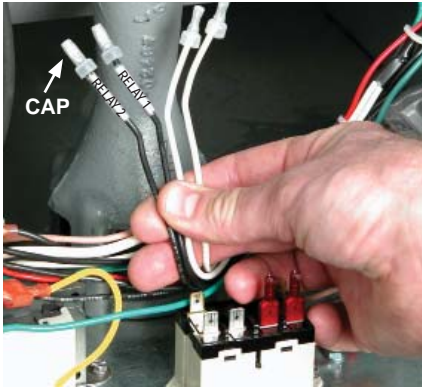
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B. Installing Relay and Electrical Socket

1. Mount the relay to the heater base at holes provided. Use the two 3/8 in. sheet metal screws from kit. Remove cable ties and purse lock clips. See Fig. 2.

FIG.2

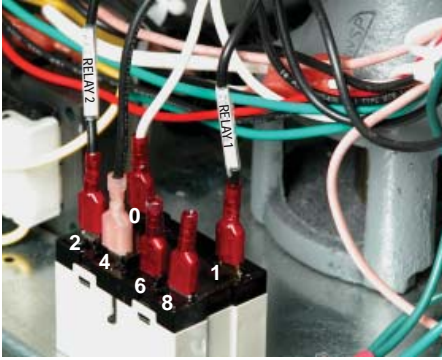
2. Remove the wire caps from the wire harness' two labeled black leads and two white leads. See Fig. 3.

FIG. 3

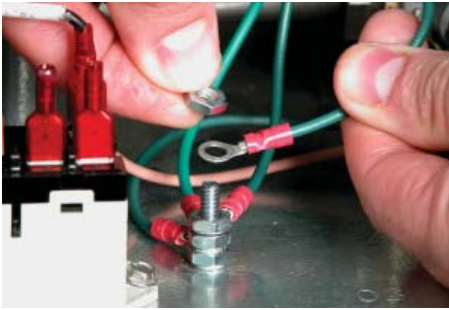
3. Connect 1/4 in. female terminals from kit to both black leads and either of the two white leads.

The relay has terminal connections numbered 1, 8, 6, 4, 2, and 0. Terminals 6 and 8 are not used in the wiring procedure. The terminals have insulated connectors for protection. See Fig. 4. Connect the relay as follows:

- Black 18 in. lead from kit to relay terminal 4.
- Black harness lead marked RELAY #1 to relay terminal 1.
- Black harness lead marked RELAY #2 to relay terminal 2.
- White harness lead to relay terminal 0.

FIG. 4

5. Connect green wire from kit to ground stud on heater base. Use nut supplied. See Fig. 5. Tighten the nut.

FIG. 5

6. Remove grommet with hole from kit's electrical box. Route the black lead from relay terminal 4, the remaining white unterminated lead from the harness, and the green ground lead added in Step 7, through the grommet, and then through hole in case panel. See Fig. 6.

FIG. 6

7. Position gasket to back of electrical socket. See Fig. 7.

FIG. 7



8. Connect leads to socket's screw lugs. See Fig. 8.

FIG. 8



9. Slide the grommet back into position on electrical box. Locate the box to inside of case so it aligns with screw holes. See Fig. 9.

FIG. 9



- Position socket to holes in case. Install the four 1/2 in. screws and tighten securely to electrical box.
See Fig. 10.

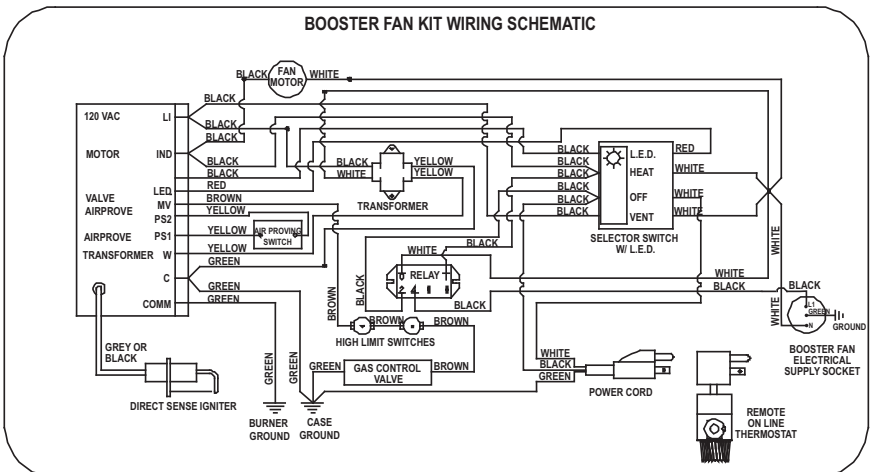
FIG. 10



C. Completion

- Install purse lock clips removed earlier around all electrical leads.
- Verify completed wiring matches the wiring diagram supplied within these instructions. See below.
- Apply wiring diagram from kit to interior of burner access door. Place it near the heater's wiring diagram.
Clean the area to allow proper adhesion.
- Connect the heater to its electrical supply. Set the thermostat to call for heat. Start the heater and check for proper operation. Use a voltage tester. Ensure 115 volts is delivered at the electrical socket. If not, go back and recheck all wiring.
- Close and latch the burner access door.
- Disconnect the heater from its electrical supply after verifying wiring.
- Keep these instructions for future reference.

FIG. 11



Service

Contact your local L.B. White dealer for replacement parts and service. You may also call the L.B. White Company, LLC at U.S. & Canada: 1-800-345-7200, Overseas: 001-608-783-5691 assistance, or email us at customerservice@lbwhite.com.

Be sure that you have your heater model number and configuration number when calling.



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