

INSTALLATION INSTRUCTIONS



Foreman 230/500/750 2.0 Omron Brick Relay 574666

View these instructions online at www.lbwhite.com

Kit Contents:

DESCRIPTION	QTY.
Instruction, Installation	1
Relay, Omron w/wiring kit	1
Screws, Self Tapping	2

Tools required:

- Cordless drill
- 5/16 in. socket
- 1/4 in. socket
- Smaller standard screwdriver
- Needle nose pliers
- Torque wrench set to 20 in. pounds with a 3/16 allen head.

Qualifications for installation:

- You must be able to read and understand these instructions.
- You must be properly trained and have sufficient experience in servicing heaters and be capable of testing the heater for proper operation.

General Information:

- The following instructions provide information for the replacement of the solid state relay with an Omron brick relay.
- Read all instructions carefully before beginning installation.
- Allow the heater to cool down or in cold condition before starting the installation.
- Tighten all screws securely.

Preparation:

- Unplug the heater from its electrical supply.



SCAN THIS

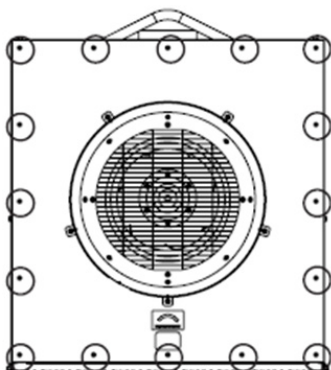
with your smartphone or
visit <http://goo.gl/5j21G>
to view maintenance
videos for L.B.White heaters.*

** Requires an app like QR Droid
for Android or for iPhone*

Installation:

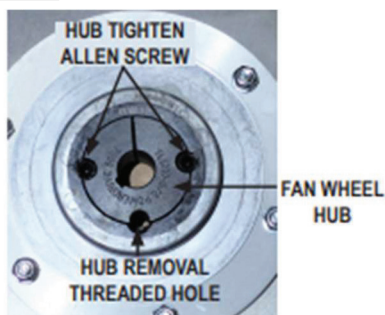
1. Remove the rear panel by unscrewing the fasteners securing it to the heater. Then, pull the rear panel away from the heater. See Fig. 1.

FIG. 1



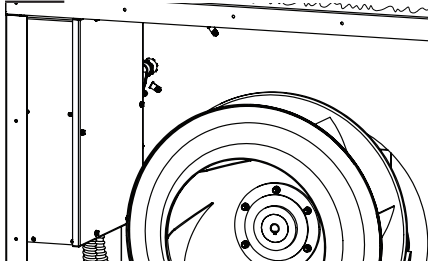
2. Remove the fan wheel by loosening the two Allen set screws securing the fan hub to the motor shaft. You will need to remove one of the set screws completely and insert it into the unoccupied hole to release the fan wheel hub from the shaft. Pull straight out to remove the fan wheel and shaft key, and set them aside. See Fig. 2.

FIG. 2



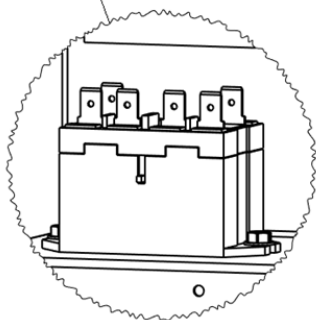
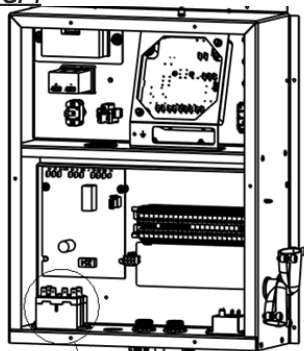
3. Locate and remove the six screws securing the control box cover, then remove the cover. See Fig. 3.

FIG. 3



4. Locate the solid-state relay. Without disconnecting the wires from the relay itself, trace the wires and disconnect them from their corresponding terminals. Then, remove the two screws securing the relay.
5. Remove and discard the solid-state relay along with its attached wires.
6. Install the Omron brick relay onto the base of the control box. Center the relay toward the left side of the base, and secure it using the self-tapping screws provided. See Fig. 4.

FIG. 4



7. Following the wiring schematic and parts diagram on the next page, install the provided wires into their corresponding locations. The MR-0, MR-1, MR-2, and MR-4 wires will already be attached to the terminals on the replacement relay.

Note: The schematic indicates different wiring configurations depending on whether you have a Riello or Beckett burner.

FIG. 4

Wire Color	Wire Length	From/To Code on Wire	
Black	8.0"	TB2~2	MR~4
Black	12.5"	TB1~4(10)*	MR~2
Black/White	3.0"	LED3~L	SS~1
Stripe	23.0"	MR~1	
	9.0"		CB~IND
White	8.0"	TB1~5(4)*	CB~N3
	8.0"	MR~0	
	13.5"***		BMR~1**

*Riello Burner: Use TB1 number in parentheses.

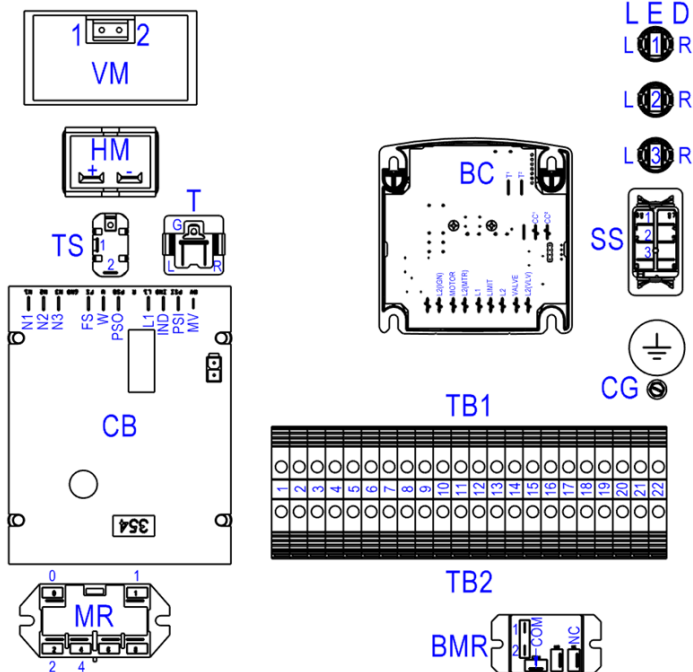
** Riello burners do not have a burner motor relay (BMR).

The MR-0 to BMR-1 white wire will not be used. This will sit in the control box.

Completion:

1. Reinstall the control box cover.
2. Reinstall the fan blade. Place fan blade over the shaft and reinsert the key. Flush the hub with the motor shaft. Remove the set screw from the hub release. Insert it into its original location. Tighten each hub screw hand tight then torque to 20" pounds.
3. Reinstall the rear panel.
4. Connect the heater to its electrical supply. Start the heater to ensure proper operation.

Parts Diagram



Service

Contact your local L.B. White dealer for replacement parts and service. You may also call the L.B. White Co., 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 either the heater model or serial number when calling.



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