

INSTALLATION INSTRUCTIONS



Premier 350/700 DF 2.0 Omron Relay Kit 574667

View these instructions online at www.lbwhite.com

Kit Contents:

DESCRIPTION	QTY.
Instruction, Installation	1
Relay, Omron w/ wiring kit	1
Screws, Sheet Metal, #8x3/8"	1

*1 kit required for the Premier 350

**2 kits are required for the Premier 700

Tools required:

- Cordless drill
- 1/4 in. magnetic socket
- 5/16 in. magnetic socket
- Standard screwdriver
- Wire cutter/stripper

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 a Omron Brick style 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:

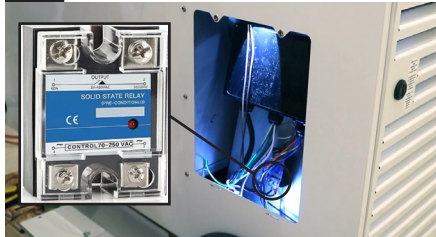
1. Locate and remove the 2-5/16" screws mounting the control box access panel to the heater and remove the panel. The CS350 will only have 1 access panel. The CS700 will have 2. See Fig. 1.

FIG. 1



2. If you are working on the CS350, continue to the next step. If you are working on a CS700, skip to step 8.

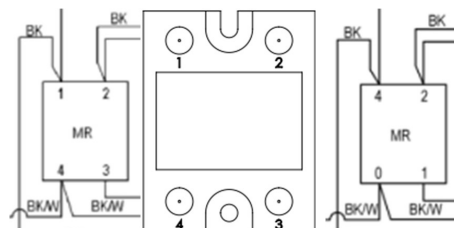
FIG. 2



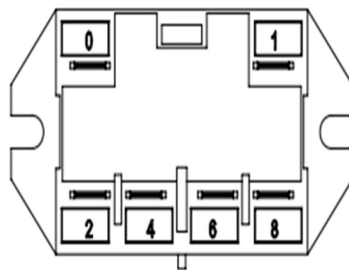
3. Leave the solid-state relay in place. Loosen the screw and remove the terminal from position #1 on the solid-state relay. Using a wire cutter, cut off the terminal closest to the base. Strip 7/16" of insulation from both black wires. See Fig. 2.
4. Grab the Omron replacement relay. Open the levers of the Wago clips that are not already occupied by wires. When looking at the relay, you'll see numbers corresponding to each terminal. It's important to ensure that the correct wires are inserted into the correct terminal locations. Refer to the wiring diagram for the CS350 in Fig. 3. Insert the stripped wires into the Wago clip connected to terminal #4 of the replacement relay. Make sure all strands of each wire are fully inserted into the clip, then close the levers. Only one wire should be inserted into each open slot on the Wago clip.

FIG. 3

Was:

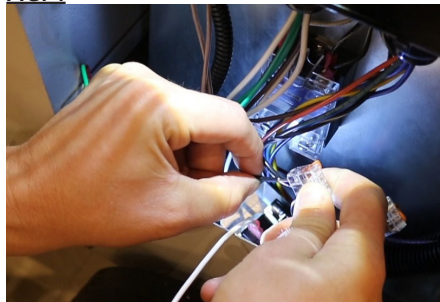


Will Be:



5. Loosen the screw and remove the terminal from position #2 of the solid-state relay. Cut off the terminal closest to the base, then strip 7/16" of insulation from both black wires. Insert the stripped black wires into the Wago clip connected to terminal #2 of the replacement relay. Ensure all strands of each wire are fully inserted into the clip, then close the levers. Only one wire should be placed in each open slot of the Wago clip. See Fig. 4.

FIG. 4

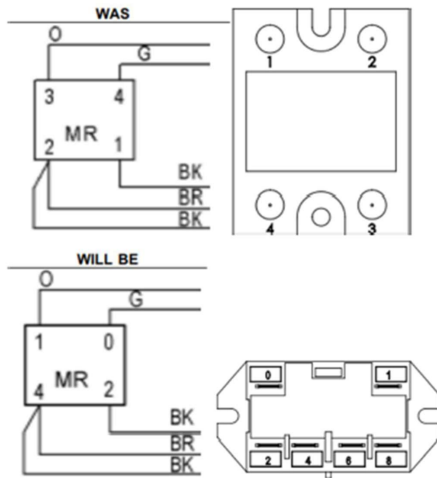


6. Loosen the screw and remove the terminal from position #3 of the solid-state relay. Cut off the terminal closest to the base, then strip 7/16" of insulation from the single black wire with a white stripe. Insert the stripped wire into the Wago clip connected to terminal #1 of the replacement relay. Ensure all strands of the wire are fully inserted into the clip, then close the levers.

7. Loosen the screw and remove the terminal from position #4 of the solid-state relay. Cut off the terminal closest to the base, then strip 7/16" of insulation from the two black wires with white stripes. Insert the stripped wires into the Wago clip connected to terminal #0 of the replacement relay. Ensure all strands of each wire are fully inserted into the clip, then close the levers. Only one wire should be inserted into each open slot of the Wago clip.

NOTE: If you are replacing the relays in the Premier CS700, continue to the next step and refer to the wiring diagram in Fig. 5. If you have completed the process for the Premier CS350, skip to Step 12.

FIG. 5

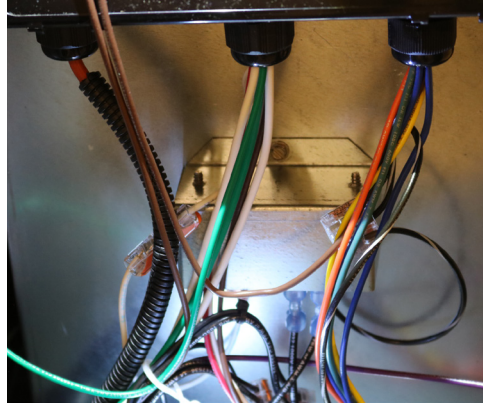


8. Leave the solid-state relay in place. Loosen the screw and remove the terminal from position #1 of the solid-state relay. Cut off the terminal closest to the base, then strip 7/16" of insulation from the black wire. Insert the stripped wire into the Wago clip connected to terminal #2 of the replacement relay. Ensure all strands of the wire are fully inserted into the clip, then close the levers.
9. Loosen the screw and remove the terminal from position #2 of the solid-state relay. Cut off the terminal closest to the base, then strip 7/16" of insulation from both the brown and black wires. Insert the stripped wires into the Wago clip connected to terminal #4 of the replacement relay. Ensure all strands of each wire are fully inserted into the clip, then close the levers. Only one wire should be inserted into each open slot of the Wago clip.

10. Loosen the screw and remove the terminal from position #3 of the solid-state relay. Cut off the terminal closest to the base, then strip 7/16" of insulation from the orange wire. Insert the stripped wire into the Wago clip connected to terminal #1 of the replacement relay. Ensure all strands of the wire are fully inserted into the clip, then close the levers.
11. Loosen the screw and remove the terminal from position #4 of the solid-state relay. Cut off the terminal closest to the base, then strip 7/16" of insulation from the green wire. Insert the stripped wire into the Wago clip connected to terminal #0 of the replacement relay. Ensure all strands of the wire are fully inserted into the clip, then close the levers.

12. Remove the screws securing the solid-state relay, then discard the relay.
13. Using the screw provided in the kit, mount the Omron replacement relay bracket to the upper screw hole on the motor mount previously occupied by the solid-state relay.
14. Ensure all wires are installed correctly and all screws are securely tightened.

COMPLETE



Completion:

1. Reinstall the control box access panel.
2. Connect the heater to its electrical supply.
3. Start the heater to ensure proper operation.

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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