

Instruction for Use - Replacing the Watlow Controller in Older Warming Cabinets

This instruction pertains to older warming cabinets (pre-2007) that were supplied with Watlow Controllers.

The part number for the replacement Watlow Controller is W0001-01.

Remove Old Watlow Controller

1. Turn off and unplug the warming cabinet.
2. Remove four 8 X 1-5/8" self-tapping screws (Table 1, Item 4) from outside Top Panel (Table 1, Item 1). Remove outside Top Panel and set aside (Fig. 1).
3. Remove two 8 X 1/2" self-tapping screws (Table 1, Item 3) from the inside Top Panel (Table 1, Item 2). Remove the inside Top Panel and set aside.

Table 1 (Fig. 1)		
Item #	DESCRIPTION	QTY
1	Outside Top Panel	1
2	Inside Top Panel	1
3	Screw, self-tapping 8 x 1/2"	2
4	Screw, self-tapping 8 x 1-5/8"	4

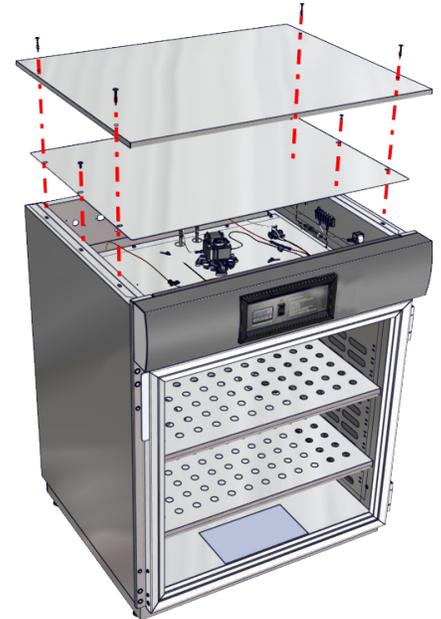


Fig. 1: Remove Top Panels

4. Remove the 4 bolts (Fig. 2 - shown in green) that secure the header to the cabinet.
5. The header can then be flipped down to reveal the old controller (Fig. 3 - Fig. 4).

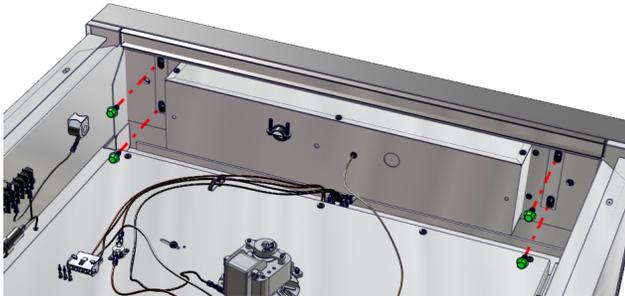


Fig. 2: Remove 4 Header bolts

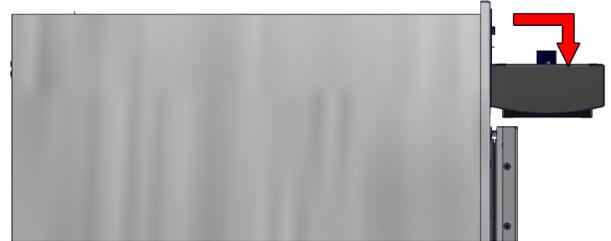


Fig. 3: Flip header down

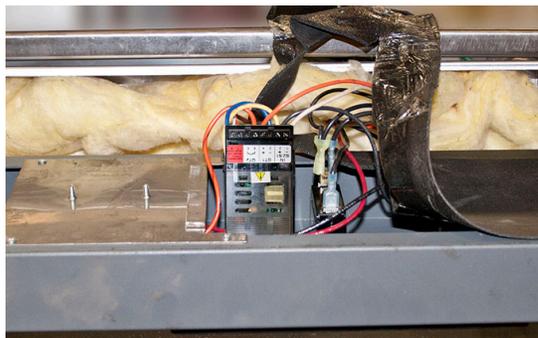


Fig. 4: Header flipped down - controller exposed

For model SWC1824 and other warming cabinets with welded on headers, the header does not flip down. To access the controller, remove the electrical box by unscrewing its 4 screws and moving the box backward (Fig. 5).

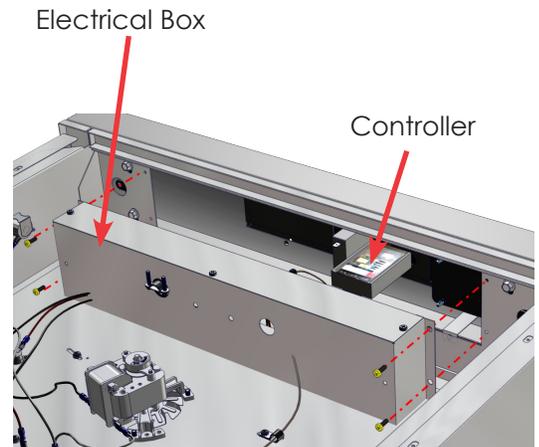


Fig. 5: For welded headers, remove electrical box

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6. Carefully detach the header wires from the old controller.
7. The controller is held to the face plate on the cabinet header by a plastic snap-on clip. To remove the controller, insert a flat-head screwdriver or small knife blade between the clip's "teeth" (3 teeth to both sides) to disengage the clip from the controller clip grooves (Fig. 6).

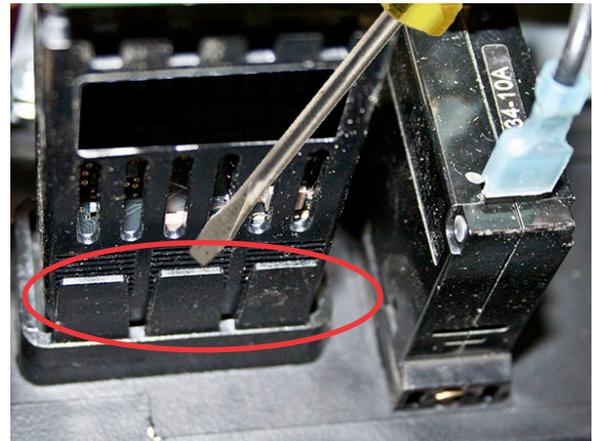


Fig. 6: Pry clip on controller to remove

Install New Watlow Controller

1. The new controller comes with a plastic retainer clip and 2 green connectors. Remove the green connectors by carefully prying apart the controller prongs and lifting out the connectors (Fig. 7).
2. Insert the controller through the controller hole of the header face until the controller meets the header face. (Make sure the digital controller face appears right side up on the header face.) While the controller is inserted through the face, slide the plastic retainer clip onto the controller until the clip teeth snap into the controller grooves (Fig. 9 - circled in green).
3. Re-insert the 2 green connectors at the pronged end of the controller. Screw sides must face outward from the controller. Pull the prongs slightly apart to allow the connectors to fit in (Fig. 7).
 - A. Connector 1 (with position numbers/letters 98, 99, CF, CD, CE) must be placed on the "UP" side of the controller (Fig. 10 - UP letters circled in red).
 - B. Connector 2 (with position numbers/letters X1, W1, Y1, L2, K2, T1, S1, R1) is placed on the bottom (Fig. 10).



Fig. 7: Insert 2 connectors



Fig. 8: Insert controller into header face

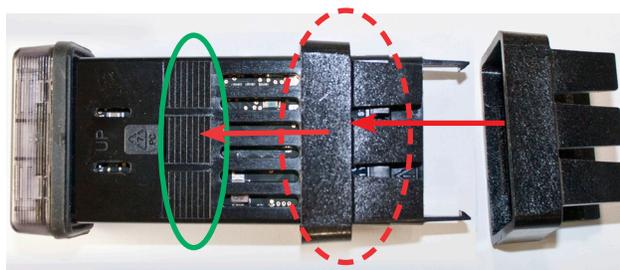


Fig. 9: Place clip on controller



Fig. 10: Connectors insert - UP side shown

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3. Rewire the new controller using the positions (in red letters) in Table 2 below as the guide. Also, see Fig. 11 & Fig. 12 (old controller wiring) and Fig. 13 & Fig. 14 (new controller wiring) for comparison.
4. After rewiring (Fig. 15), flip the header up into its original position and re-insert the 4 bolts to secure the header. (Or, if the model has a welded header, replace and screw in the electrical box).
5. Re-install the inner and outer top panels (Fig. 1):
 - A. Secure inner panel (Table 1, item 2) with two 8 X 1-5/8" self-tapping screws (Table 1, Item 4))
 - B. Secure outer top panel (Table 1, Item 1) with four 8 x 1-5/8" self-tapping screws (Table 1, Item 3).
3. Reconnect the cabinet to its power source and switch on.

Wire position Old Controller	Wire Colors	Wire Position New Controller
1	Red (-) probe wire	S1
2	White (+) probe wire	R1
3	Yellow or white (-) to relay	W1
4	Blue or black (+) to relay	Y1
5	Orange/black to relay	K2
6	Orange to buzzer	L2
7	White (ground)	98
8	Black (from switch)	99



Fig. 11: Old Controller wiring



Fig. 12: Alternative view old controller wiring

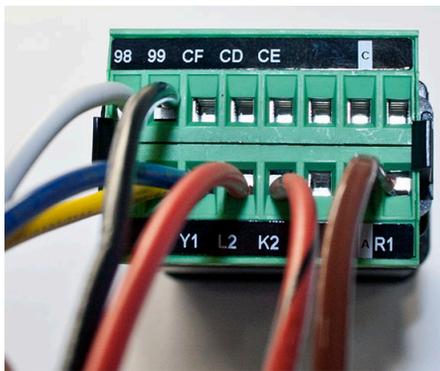


Fig. 13: Wiring top row New Controller

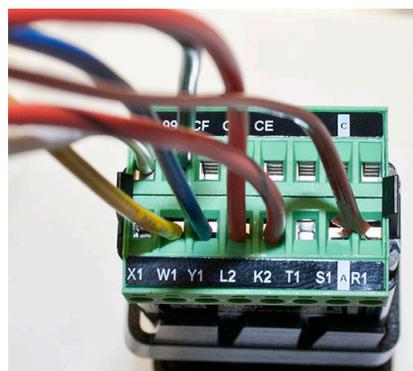


Fig. 14: Wiring bottom row New Controller

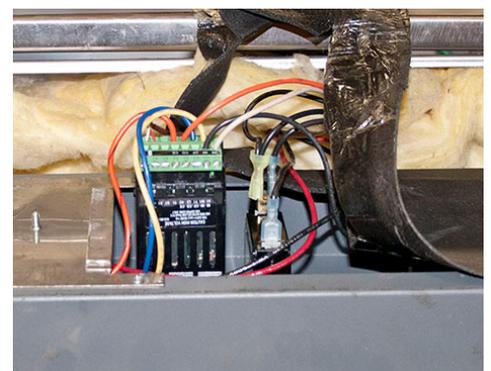


Fig. 15: New Controller wired in header