



Food Warming Equipment Co. Inc.  
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## Service Information

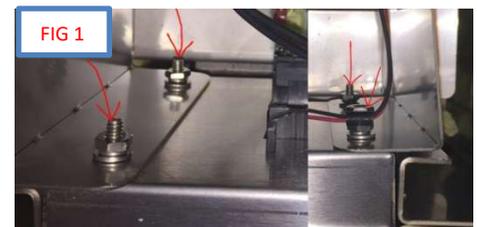
<b>Date: 3-9-26</b>	<b>Number: SI-RH01</b>
<b>Subject: INSTRUCTIONS FOR REPLACING CONTROL PANEL ON RH 220V Z-500-1039 Z-500-3018</b>	
Control Board Settings – <a href="https://FWE.to/goaf">https://FWE.to/goaf</a>	Socket and Probe Replacement – <a href="https://FWE.to/ptxl">https://FWE.to/ptxl</a>
	
Control Board Replacement – <a href="https://FWE.to/m0x1">https://FWE.to/m0x1</a>	

**Purpose:** To replace the old control panel with a new style.

**Parts Included:** 1- Z-800-2794 for RH 220V

### Installation Instructions:

- 1) Unplug the unit from the power source.
- 2) Remove the top from the unit.
- 3) Locate the (4) nuts on the backside of the control panel, FIG 1.
- 4) Remove the (4) nuts.
- 5) Verify control board is loose, and no other fasteners are holding it in place.
- 6) Locate the new control board assembly.
- 7) Place the new control board assembly on top of the current control board.
- 8) Remove (1) wire at a time from the old control board and transfer to new control board in the same place. See the wire diagram on page 2.
- 9) Once all wires have been transferred to the new control board, remove the old control board from the unit and place it aside.
- 10) Line up the new control board with (4) locating holes referenced in step 3.
- 11) Once all holes are lined up, install nuts and washers removed in steps 4.
- 12) Remove the old temp probe from inside the unit.
- 13) **Install a new temp probe inside the unit.**
- 14) Connect wires to the control board. Refer to the wire diagram below.
- 15) If the unit has a meat probe, connect the meat probe wires to the control board. Refer to the wire diagram below.
- 16) After the new control board is secured in place, verify all wires are connected and routed correctly. Refer to the wire diagram below.
- 17) Power unit on and verify operation of the new control board.
- 18) Once the unit passes all tests, turn the unit off and remove all testing equipment.
- 19) Replace the top cover and return unit to normal operation.





MAINTAIN SEPARATION OF LOW VOLTAGE CONTROL WIRING FROM LINE VOLTAGE CONTROL WIRING ON OUTPUT OF SSR

LOW VOLTAGE CONTROL WIRING

LINE VOLTAGE CONTROL WIRING

**NOTES**

THIS DOCUMENT IS TO BE USED TO CONVERT AN EXISTING ELAN CONTROLLED PRODUCT TO A MWAVE CONTROLLED PRODUCT

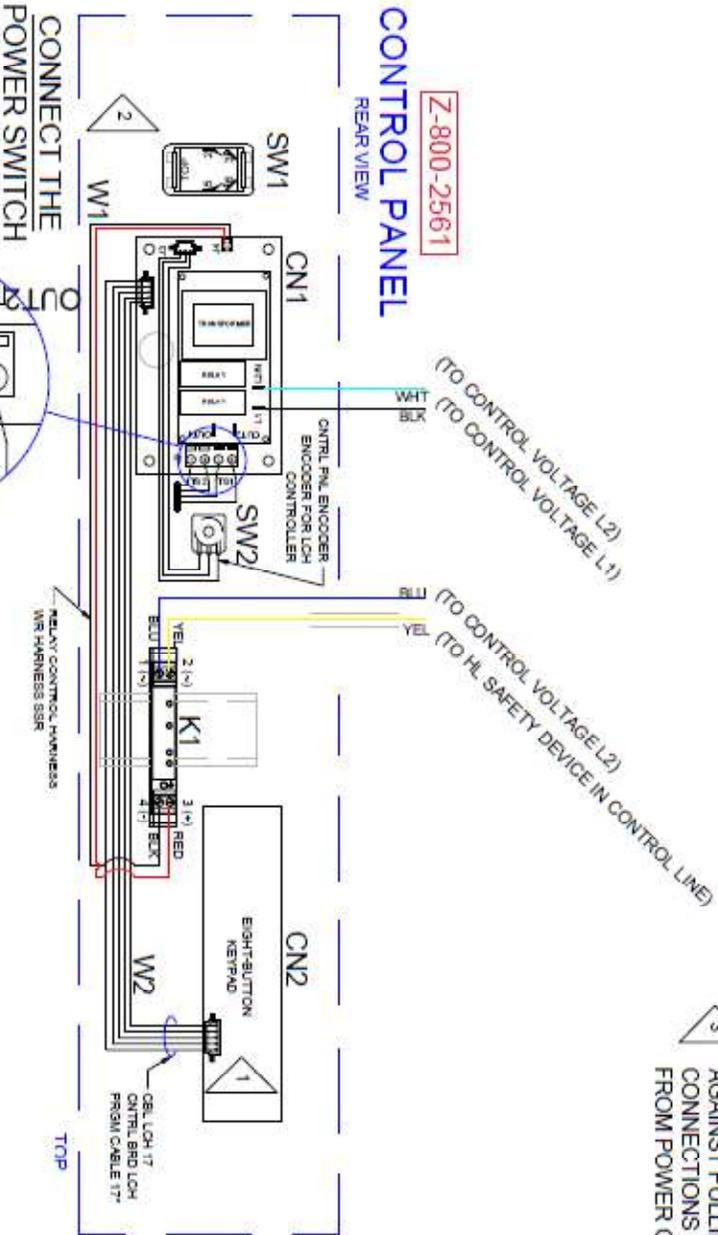
8-BUTTON KEYPAD (CN2) AND CONNECTING HARNESS (W2) ARE OPTIONAL COMPONENTS AND CONTROL PANELS MAY EXIST WITHOUT THEM.

SWITCH SW1 CONNECTIONS ARE SAME FOR NEW CONTROLLER AS EXISTS FOR OLD CONTROLLER. (TABS 2-3 BLACK AND TABS 5-6 WHITE.)

CABLES ARE TO BE ORDERLY BOUND AND STRAIN-RELIEVED AGAINST PULLING BY UL LISTED NYLON WIRE TIES AFTER CONNECTIONS ARE MADE. SEPARATE PANEL CABLES (W1, W2) FROM POWER CABLES TO SWITCH (SW1) AND BOARD (CN1).

**CONTROL PANEL**

Z-800-25611  
REAR VIEW



**LOCATE THE EXISTING CONTROLS CONNECTOR**

ELAN 4-WIRE HARNESS WITH PLUGS (COMPONENT OR CONTROLLER) SHOWN LOOKING INTO PLUG END

**PREPARE THE NEW CONNECTIONS**

OUT OFF PLASTIC PLUGS CLOSE TO THE PLUGS. PULL BACK SLEEVING ON YELLOW STRIP ALL WIRES 3/8 INCH (4X).  
TERMINATE WHITE & BLACK WIRES WITH RED INS. 250 DISCONNECT - TYPE C TERMINALS - TMM OC 18-22. TERMINATE YELLOW AND BLUE WIRES WITH (RED) FERRULES - TYPE M1 TERMINAL - FERRULE 1.00MM (8AWG INSL.

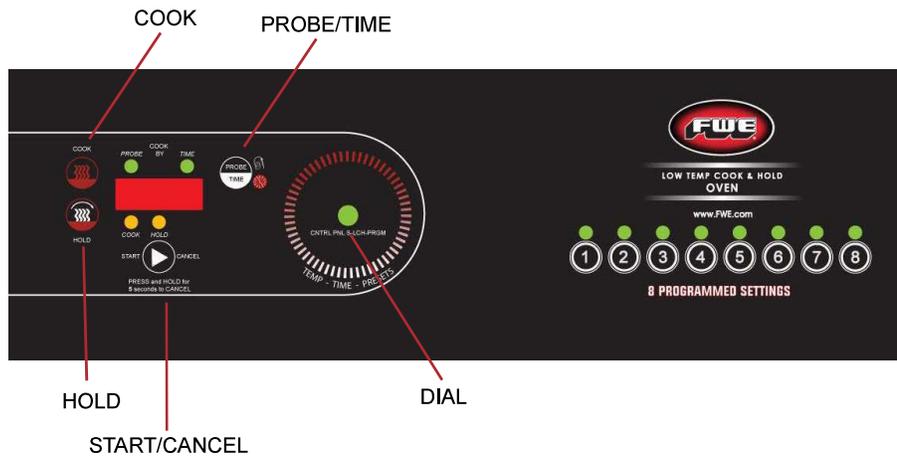
DRAWING #:	WZ0273
DESCRIPTION:	RH-LCH CNTRL ASSY PRESET MWAVE
DRAWN BY:	JOHN DURBIN
REV. A00 SHEET:	SERVICE MPP



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# FWE COOK & HOLD OVEN

## GENERAL OPERATING INSTRUCTIONS



### ***TO COOK MANUALLY BY PROBE***

- Press **COOK** 
- Rotate Dial to Oven Temp Set Point
- Press **PROBE/TIME**  1X to select Cook By Probe
- Rotate Dial to Probe Temp Set Point
- Press **HOLD** 
- Rotate Dial to Hold Temp Set Point
- Press **START/CANCEL**  to begin preheat cycle
- Load food after 'rdY' is displayed
- Press **START/CANCEL**  to begin cooking cycle

### ***TO COOK MANUALLY BY TIME***

- Press **COOK** 
- Rotate Dial to Oven Temp Set Point
- Press **PROBE/TIME**  2X to select Cook By Time
- Rotate Dial to Cook Time
- Press **HOLD** 
- Rotate Dial to Hold Temp Set Point
- Press **START/CANCEL**  to begin preheat cycle
- Load food after 'rdY' is displayed
- Press **START/CANCEL**  to begin cooking cycle

# **FWE COOK & HOLD OVEN**

## **GENERAL OPERATING INSTRUCTIONS**

### **TO COOK MANUALLY WITH NO TIME OR PROBE CONTROL**

- Press **COOK** 
- Rotate Dial to Cook Temp Set Point
- Press **START/CANCEL**  to begin cooking cycle - display shows oven set temp.

NOTE: Unit must manually be canceled or shut off to end cook cycle.

### **TO VIEW HOLD TIME**

- Press and hold the **HOLD** , hold time will be displayed in a count up timer until released.

### **TO CANCEL ANY COOK CYCLE**

- Manual Cook - Press and hold **START/CANCEL**  for 3 seconds, control beeps 3x displays "----"
- Preset Cook - Press and hold **START/CANCEL**  for 3 seconds, control beeps 3x and displays the selected "Pr#". After 5 seconds without a key press, the control returns to idle mode and displays "----". All LED's turn OFF.

### **NOTE (applies to all cooking modes):**

- Display will alternate between 'PrHE' and 'Actual Temp' until 'rdY' is displayed
- To display Set and Actual temperatures, Press **COOK**  The display shows "Set" for 1 second, then the oven set temp for 2 seconds, followed by "Act" for 1 second, then the actual oven temp for 2 seconds, then return to the original display. If there is no set point, the display will show " - " in place of the set temperature.
- To display Set and Actual Probe temperatures during preheat, ready and cook states, press **PROBE**  The display shows "Set" for 1 second, then the set probe temp for 2 seconds, then returns to the original display.
- To display Set Cook Time during preheat, ready and cook states, press **PROBE**  The display shows "Set" for 1 second, then the set cook time for 2 seconds, then returns to the original display.
- To display Set Hold Temp, press **HOLD**  The display shows "Set" for 1 second, then the hold set temp for 2 seconds. If hold was not programmed, the default hold set temp of 160°F (71°C) will be shown.

### **TO SET °F/°C UNITS**

- Power on while pressing **START/CANCEL** 
- Turn dial clockwise to select °F or counterclockwise to select °C

# **FWE COOK & HOLD OVEN**

## **GENERAL OPERATING INSTRUCTIONS**

### **TO COOK BY PRESETS**

- Press and release keypad button (1-8) to select a preset.
- (Pr01 - Pr08) is displayed with corresponding LED turned ON.
- Press **START/CANCEL**  to begin cooking by preset
- If no key is pressed after 5 seconds, the control returns to idle mode and displays “----”

### **DEFAULT PRESETS (EDITABLE):**

No:	Smoke	Oven Temp.	Cook Time	Probe Temp.	Hold Temp.
<b>Pr01</b>	NONE	190°F / 88°C	NONE	130°F / 54°C	140°F / 60°C
<b>Pr02</b>	NONE	225°F / 107°C	NONE	180°F / 82°C	155°F / 68°C
<b>Pr03</b>	NONE	350°F / 177°C	NONE	160°F / 71°C	150°F / 66°C
<b>Pr04</b>	NONE	190°F / 88°C	NONE	165°F / 74°C	160°F / 71°C
<b>Pr05</b>	NONE	190°F / 88°C	NONE	165°F / 74°C	160°F / 71°C
<b>Pr06</b>	NONE	225°F / 107°C	6:00	NONE	145°F / 63°C
<b>Pr07</b>	NONE	350°F / 177°C	8:00	NONE	155°F / 68°C
<b>Pr08</b>	NONE	225°F / 107°C	6:00	NONE	155°F / 68°C

### **TO EDIT PRESETS**

- To enter the edit mode, press and hold ANY keypad button (1-8) or ANY cook function button (“Cook”, “Hold”, or “Probe/Time”) for 4 seconds to enable editing of ALL cook functions within the selected preset #. Edit mode entry will be indicated by a 1 second beep, then control will alternate displaying “edit” and “Pr#” for 1 second each
- Press and release any cook function button, current set value will be displayed along with the associated LED, Rotate encoder dial to change set value and repeat as necessary for remaining cook functions - **(No auto save, must save changes manually)**
- After 5 seconds without a key press or encoder dial rotation, the control beeps for 1 second, then exits edit mode and displays the preset # that was selected for editing, LED constant ON.
- After an additional 5 seconds without a key press or encoder dial rotation, the control returns to idle mode and displays “----”. All LED’s turn OFF.
- Pressing **START/CANCEL**  at any time while in edit mode will save the current settings and the control will beep for 1 second, then exits the edit mode and displays the preset # that was selected for editing, LED is constant ON. You may select another preset to edit or after 5 seconds without a key press, the control returns to idle mode and displays “----”. All LED’s turn OFF.

# FWE COOK & HOLD OVEN

## GENERAL OPERATING INSTRUCTIONS

### **CONTROL LOCKOUT FUNCTION: UPON INITIAL POWER UP, THE CONTROL WILL BE UNLOCKED**

- To lock the control to prevent unwanted changes: ONLY idle, "----", START/CANCEL , and presets are accessible.
- From idle "----", Press and Hold START/CANCEL , for 10 seconds. Control will display "Loc" mode, pressing and holding any keypad button or cook function button ("Cook", "Hold", or "Probe/Time"), for 4 seconds, display will indicate "Loc" and control will beep 5 times to indicate editing is not allowed when unit is locked.

**NOTE:** Control will remember it is in "Loc" mode when powering up after a power loss or after unit was turned OFF.

### **TO UNLOCK THE CONTROL:**

From idle "----", Press and hold START/CANCEL  for 10 seconds. Control will display "ULoc" for two second with a one (1) second beep to acknowledge the change, then returns to idle mode displaying "----".

### **ERROR MESSAGES:**

"ERROR" Displayed	When error is displayed	Reason for error	Recommended Action
"Prb", constant beep	During power up	Temp Probe (TS1) is open, shorted or out of range	Turn power OFF 1) Check connections 2) Replace temp probe
"Prb" constant beep	During cook cycle	Temp Probe (TS1) is open, shorted or out of range (Any cook cycle canceled)	Turn power OFF 1) Check connections 2) Replace temp probe
"no"..."Prb" Beeps 5X	Pressing "START" after cook by probe selected	Meat Probe (TS2) is open, or not installed	1) Check connections 2) Install meat probe
"Prb"..."Err" Beeps 5X	During cook cycle	Meat Probe (TS2) is open, shorted or out of range	1) Check connections 2) Install meat probe
"C by"..."Err" Beeps 5X	Pressing "START" after setting cook and hold values in a manual cook program	"Cook by function" not selected	1) Choose "cook by function", set value, and press "START", corresponding LED will be lit

