OPERATING INSTRUCTIONS

PRINCE CASTLE INC. WORLDWIDE

Batch Bun Toaster
Model No. 212-M

Excalibur®

TABLE OF CONTENTS

Electrical Specifications

Model	Volts	Amps	Hz.
212-M	110	16	60
212-MF	220-240	9	50/60
212-MFCE	230	10	50/60

LIMITED WARRANTY

This product is warranted to be free from defects in material and/or workmanship for a period of (2) years from date of original installation not to exceed 30 months from date of shipment from our factory. Printed circuit boards and platen are warranted for a period of (3) years from date of original installation not to exceed 42 months from date of shipment from our factory. Any part or component which proves to be faulty in material and/or workmanship within the warranty period will be replaced or repaired without cost to the customer for parts or labor. (At the option of Prince Castle, Inc.)

This warranty is subject to the following exceptions/ conditions:

- Any use of Non-genuine Prince Castle spare parts voids this warranty, and all work must be performed by an authorized Prince Castle Service Agent.
- All labor should be performed during regular working hours. Overtime premium will not be covered.
- The equipment is portable. Charges for on location service (e.g. trip charges, milage) are **only** included in the provisions of this warranty for a failure which occurs within 30 days of installation.
- Damage caused by carelessness, neglect, and/or abuse (e.g., using wrong current, dropping , tampering with or altering electrical components, or improper cleaning) is not covered.
- Equipment damaged in shipment, by fire, flood or an act of God.

PRINCE CASTLE INC. WORLDWIDE

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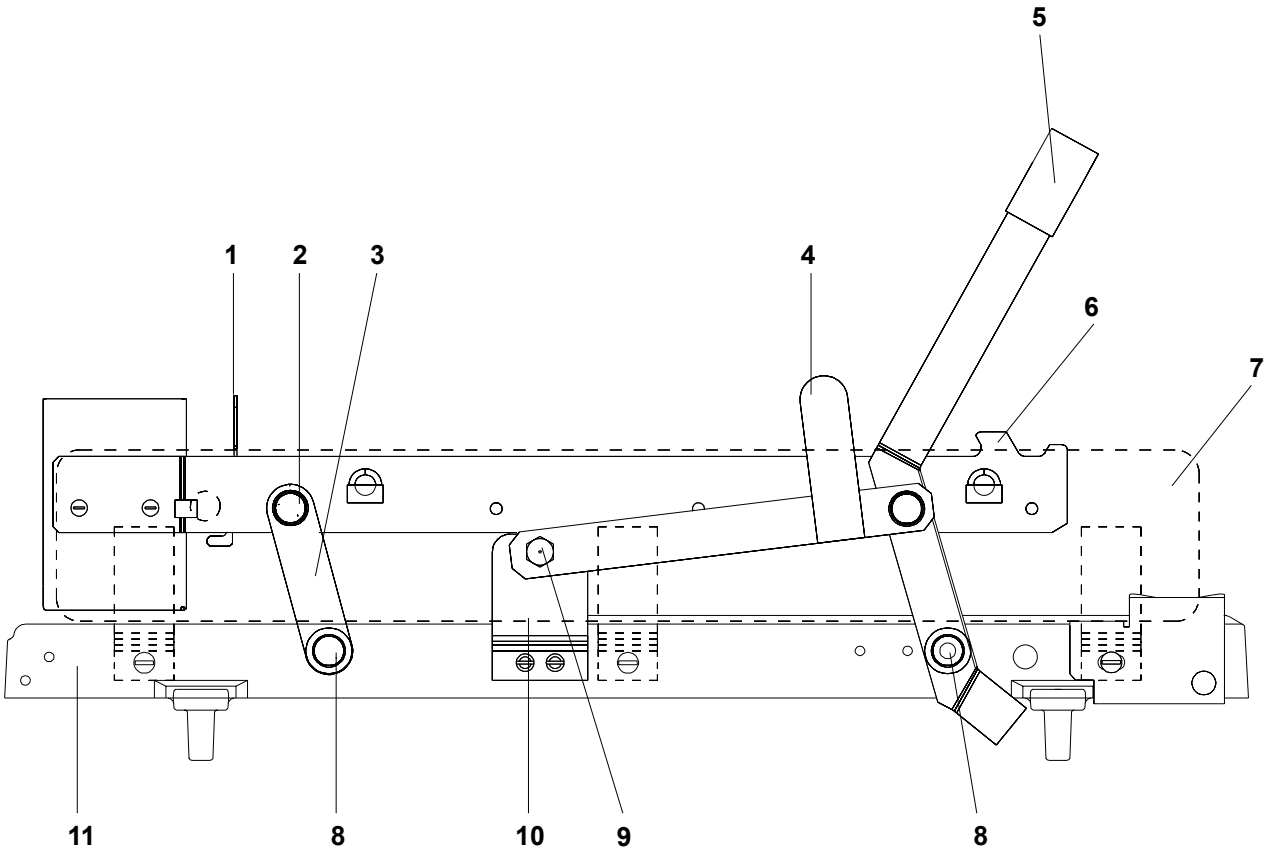
Printed in 1999
Prince Castle Inc.

212-581

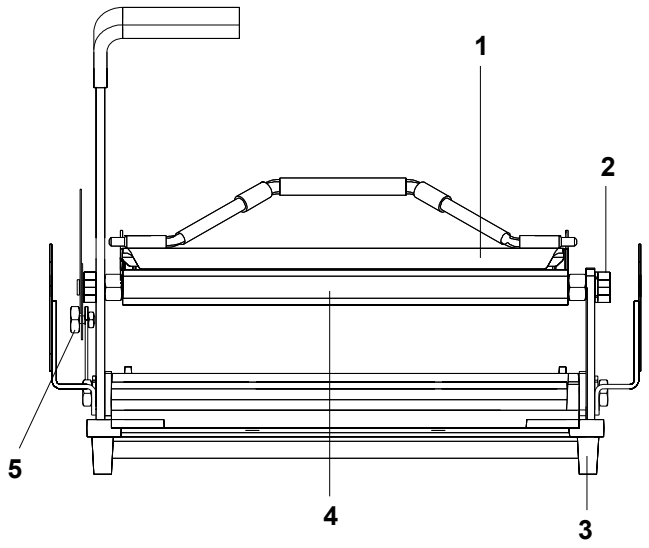
SIDE VIEW



PARTS LIST

ITEM	PART NUMBER	DESCRIPTION
1	212-612	Rear Bun Fence
2	212-285	Platen Stud, Rear
3	212-229	Front Lever Assy. Right
	212-230	Front Lever Assy. Left
4	213-303	Safety Latch
5	212-168	Handle and Lever Assy. w/Bearings
6	212-632	Left Hand Bun Fence
	212-631	Right Hand Bun Fence (Not shown)
7	213-416	Side Panel (Both Sides)
8	212-284	Base Studs
9	213-301	Safety Latch, Pivot Bolt
10	213-305	Safety Latch Bracket
11	213-413S	Base w/Feet

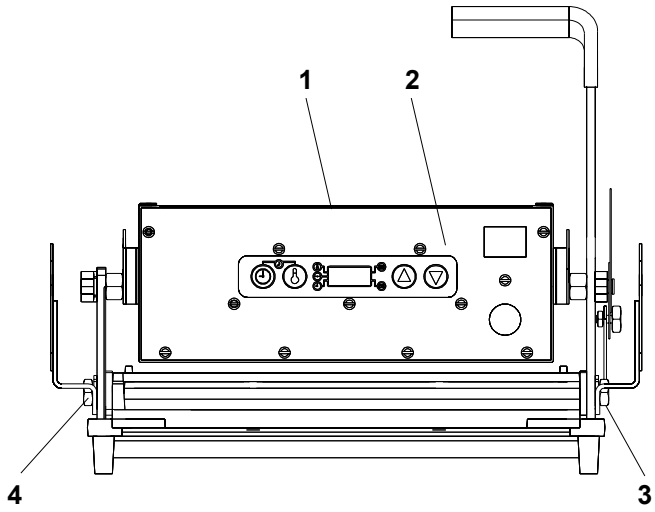
FRONT VIEW



PARTS LIST

ITEM	PART NUMBER	DESCRIPTION
1	212-290	Bun Board
2	212-286	Platen Stud, Front
3	89-959S	Black Rubber Foot (Pkg of 4)
4	213-83	Platen (120 V)
	213-84	Platen (220-240 V)
5	213-304	Platen Stud, Safety Latch

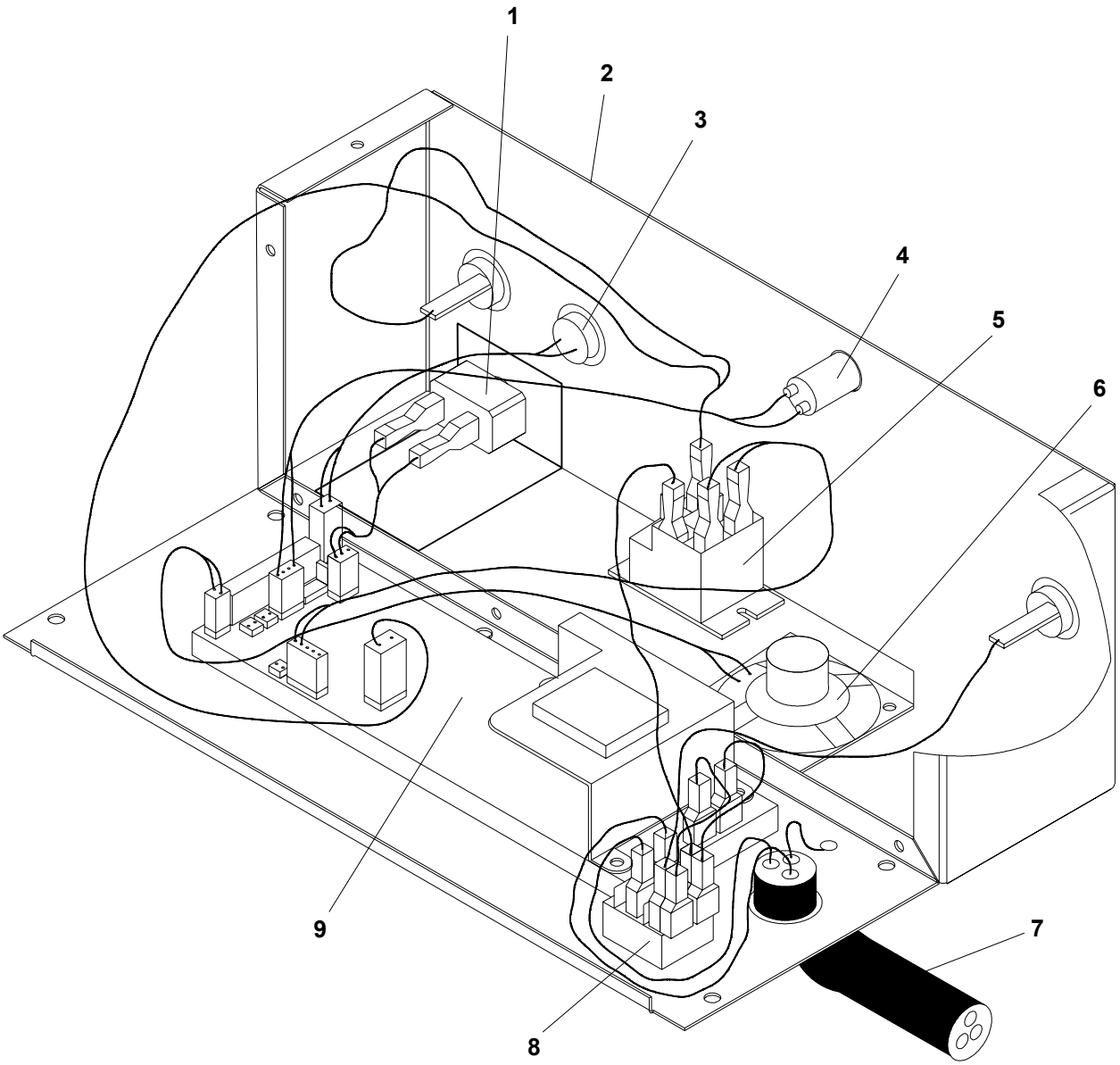
REAR VIEW



PARTS LIST

ITEM	PART NUMBER	DESCRIPTION
1	213-712	Cover
2	213-703	Face Plate
3	416-27	Cam Stop
4	416-27	Cam Stop
Not Shown	215-7	Spring, Extention
Not Shown	81-009	Spring, Compression

INTERNAL VIEW UPPER CONTROL BOX



PARTS LIST

ITEM	PART NUMBER	DESCRIPTION
1	78-146S	Timer Activating Switch
2	213-661	Chasis
3	213-700S	Temperature Probe
4	213-257S	Bun Done Light
5	65-039S	Relay
6	213-229S	Speaker Assy.
7	72-308S	Power Cord (110 Volt)
	72-302	Power Cord (220 Volt)
	72-298	Power Cord (230 Volt)
8	78-166S	Rocker Switch
9	411-427-02S	Control/Display PCB Assy. (220-240 V)
	411-426S	Control/Display PCB Assy. (110 V)

SYMBOLS & TERMS

C - - A Toaster is set on Celsius.

F - - A Toaster is set on Fahrenheit.

A L - Alarm Level setting 1-4.

Sound Button: Used with timer button and temperature button to set alarm level.

Timer Button: Used to view time in run mode. Used to set time in program mode.

Temperature Button: Used to view set point temperature in run mode, and used to set the set point temperature in program mode.

Up Arrow: Used to set time, sound and temperature in program mode.

Down Arrow: Used to set time, sound, and temperature in program mode.

FACTORY PRE-SET

Prince Castle's Solid State Digital Display toasters are pre-set at the factory.

If your toaster model is set for a 35 second toast time, then the temperature is pre-set and calibrated to 425°F 215°C.

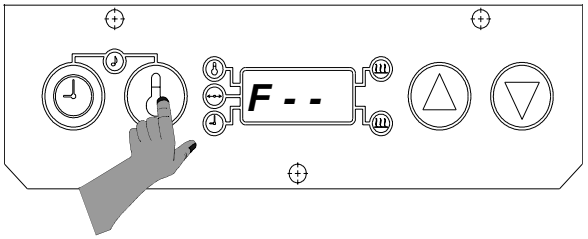
If your toaster model is set for a 55 second toast time, then the temperature is pre-set and calibrated to 400°F 204°C.

SET-UP

1. Refer to the nameplate on the control box for the proper operating voltage. Connect the toaster to a grounded receptacle that matches the nameplate voltage information. Press the power switch to the on position, allow the unit 30 minutes to reach operating temperature.

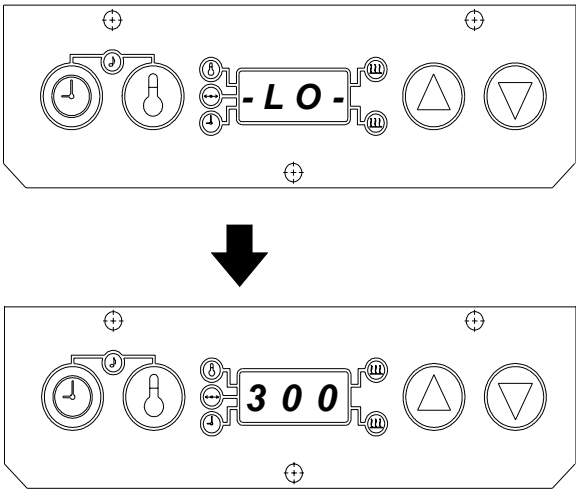
2. The toaster is factory-set to display temperatures reading in Fahrenheit. When the toaster is turned on, the digital display on the controll box will read F--A for Fahrenheit, and the "A" will begin to count down 9 seconds. During this countdown, you can change the temperature display from Fahrenheit to Celsius readings. To change temperature display, press and hold the temperature button for six seconds. See figure 1.

figure 1



3. During the pre-heat cycle, the display will read ***- L O -***. When the platen temperature reaches 300° F (149° C), the display will begin to show the actual platen temperatures throughout the toasting cycles. See figure 2.

figure 2

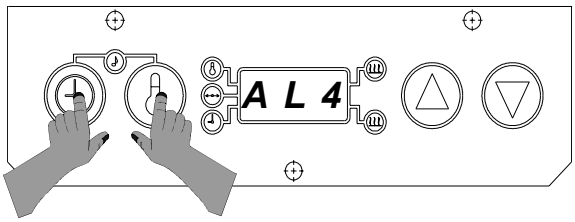


Sound Level Adjustment

The audio alarm has four sound levels.

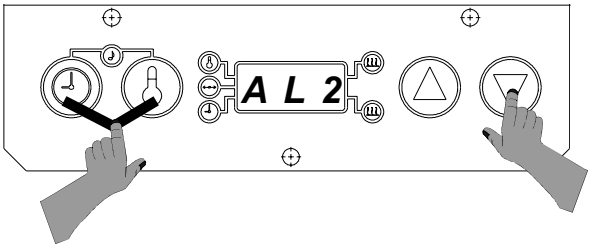
1. Press and hold the time button and temperature buttons simultaneously. The display will show the current sound level. The toasters are factory set at level 4, and the display will read, ***A L 4*** for **A**larm **L**evel **4**. See figure 3.

figure 3



2. While holding the time and temperature buttons, press the up or down arrow buttons to adjust the sound level. A continuous tone will sound. Release all buttons when the desired sound level is reached. The display will show the current sound level. See figure 4.

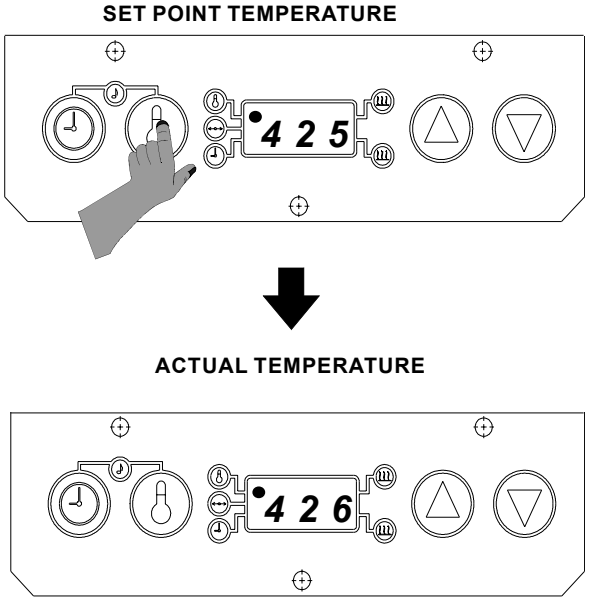
figure 4



VIEW SET POINT TEMPERATURE

1. Press and release the temperature button. (Do not hold for more than 6 seconds.) A beep will sound, the temperature indicator will turn on, and the display will show the set point temperature for three seconds. The display will then change to show the actual temperature. See figure 5.

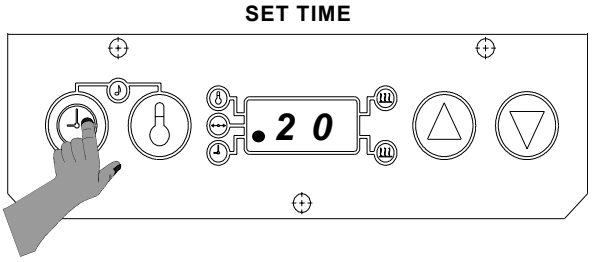
figure 5



VIEW TIMER SETTING

1. Press and release the time button. (Do not press the time button for more than 6 seconds.) The set time will be displayed for three seconds. If the timer is activated and is in a countdown sequence, the time remaining will be displayed, and will continue to countdown to zero. After three seconds, the display will change to show actual platen temperature. See figure 6.

figure 6



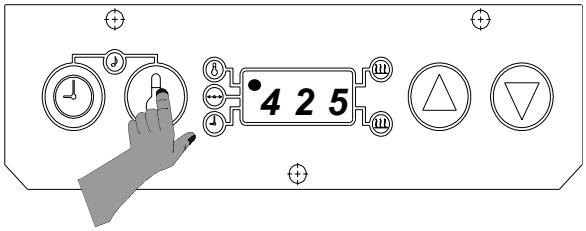
PROGRAMMING

The programming modes are used for setting individual set point temperature, and setting toast times.

Programming the Set Point Temperature

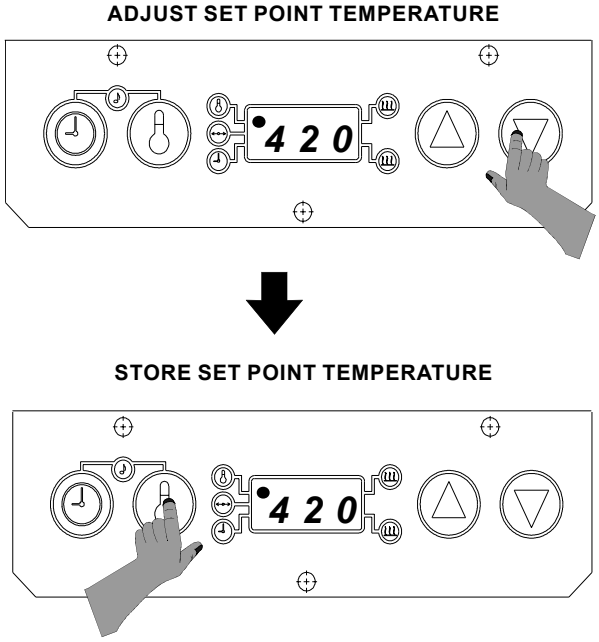
1. Press and hold the temperature button for six seconds. A beep will sound, the temperature indicator light will blink, and the display will show the current set point temperature. See figure 7.

figure 7



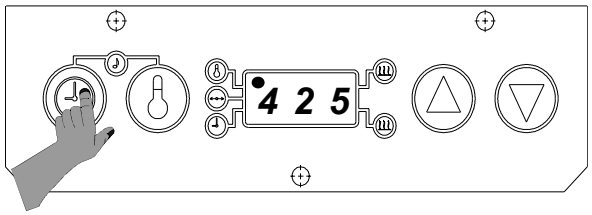
2. To change the set point temperature, use the up or down arrow. Once the desired temperature is displayed, press the temperature button to store the new setting. See figure 8.

figure 8



3. To cancel the set point programming mode at any time, press and release the time button. The display will change to show the actual platen temperature. See figure 9.

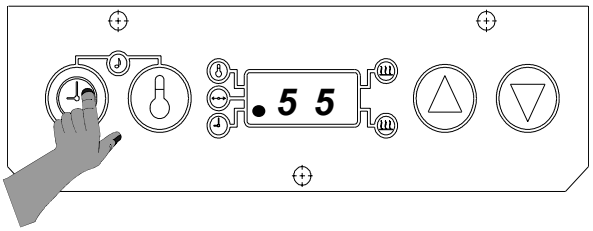
figure 9



Programming Toast Times

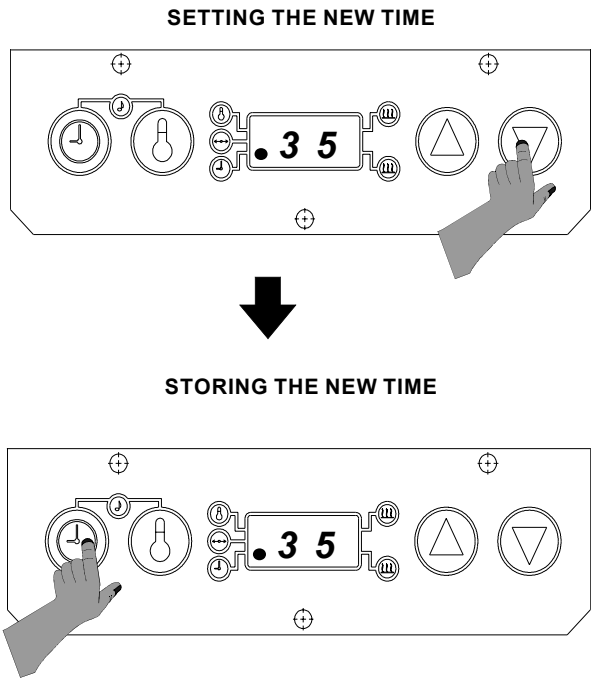
1. Press and hold the time button for 6 seconds. A beep will sound, and the time indicator light will blink. Release the time button to show the current toast time. See figure 10.

figure 10



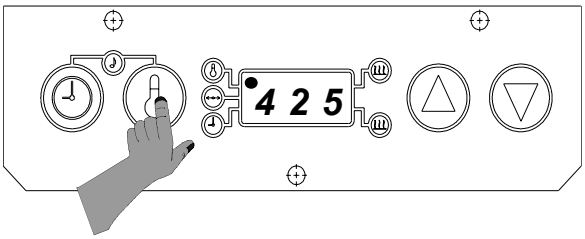
2. Use the up and down arrow buttons to set your desired toast time. The range is from 20 seconds to 1 minute, 30 seconds. When desired time is reached, press and release the time button to store the new time. See figure 11.

figure 11



3. To cancel the time set function at any time, press and release the temperature button. The time indicator light will turn off, and the display will change to show the actual platen temperature. See figure 12.

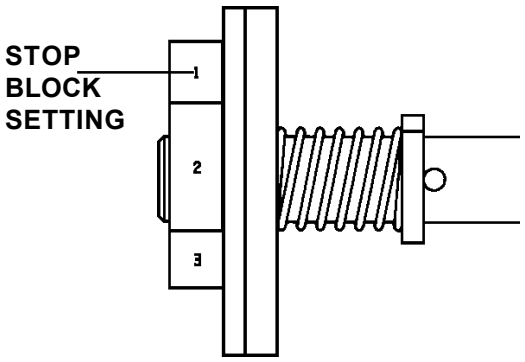
figure 12



SETTING STOP BLOCKS

Stop blocks allow for proper crush when toasting buns. The toaster leaves the factory with the stop blocks set on number 3. The stop blocks are located toward the front of the toaster on the right and left sides of the base. To increase the crush, set the stop blocks to the number 2 setting. To decrease the crush, set the stop block to the number 4 setting. See figure 13.

figure 13



IMPORTANT: The stop blocks are set at the number that is touching the lever. The example in figure 13 shows a stop block setting of 1.

1. To change the stop block setting, depress the right stop block and disengage the locking pin. Turn stop block to correct setting.

CLEANING

1. Press the power switch to the off position.

2. Unplug toaster.

3. Allow toaster and platens to cool down.

4. Wipe entire platen with clean, damp grill cloth. Full toaster cleaning must be done in the morning when toaster is cold.

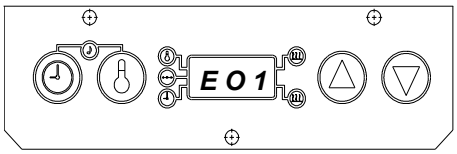
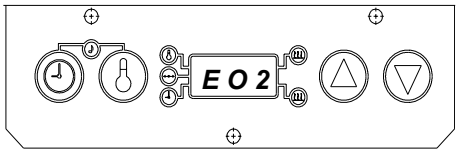
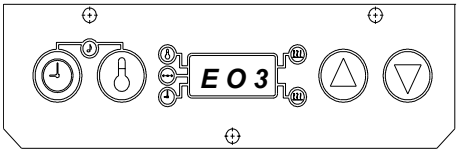
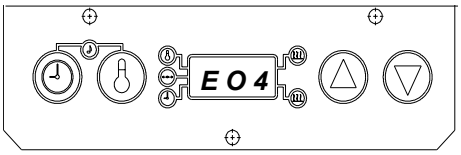
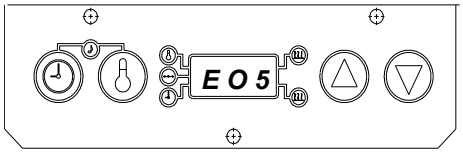
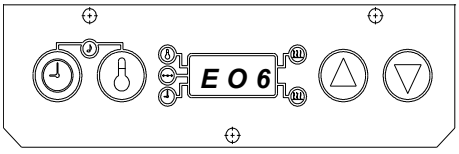
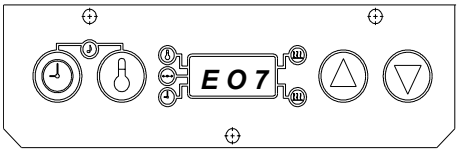
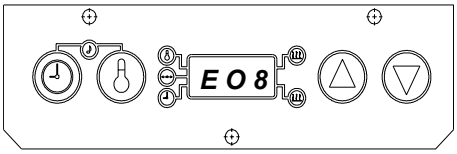
IMPORTANT: Do not drape cord over hot toaster bun board or platen. This will cause cord to burn.

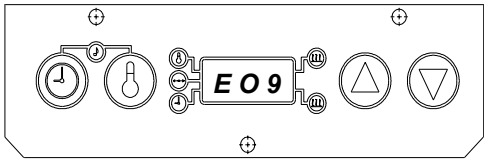
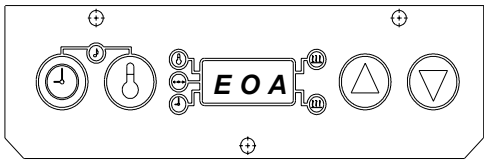
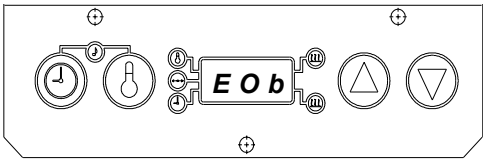
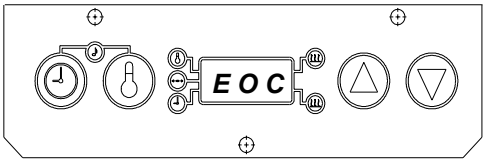
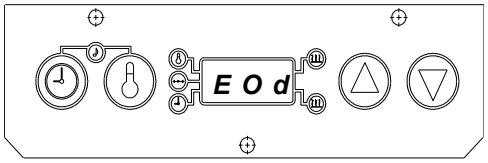
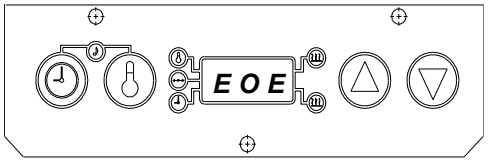
TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Platen loose.	Platen bolts loose.	Tighten platen bolts.
Speaker sounds, but no bun done light comes on.	Done light burned out.	Replace done light.
No speaker sounds and bun done light. does not come on.	Defective timer switch. Timer connection shorted on power board. Timer switch not activating.	Replace timer switch. Replace power board. Check actuating bracket to make sure it pushes timer switch all the way in.
Buns being crushed.	Stop blocks not adjusted properly. Warped bun trays. Buns cut improperly.	Adjust stop blocks. Straighten or replace bun trays. Contact bakery.
Platen does not heat.	No power. Power switch defective. Shorted power board. Platen burned out or shorted.	Check power source. Replace power switch. Replace power board. Check platen with ohmmeter for 11 ohms, if reading is less than 7 ohms or more than 14 ohms, replace platen.
No Display.	Fuse Defective.	Check fuse with ohmmeter, reading should be 1-2 ohms.

DIAGNOSTIC TROUBLESHOOTING

If the toaster malfunctions, the display will flash an error code ***E*** and a number between 1-9, or a letter between A-F. Below are different error codes and their solutions.

	1. Relay contacts are shorted. Platen over heating.	Check if relay is open. If it is replace relay. Check platen circuit on power board. If bad replace board.
	2. Probe open or shorted.	Replace probe. Check probe connection.
	3. Failures 1and 2 combined.	
	4. Platen Under Heating. (Cold Air Blowing On Platen Causing a Substantial Drop In Platen Temperature). Low Voltage Applied To Unit. Toasting Multiple Runs Of Buns In A Short Time Period Will Cause The Platen Temperature To Drop Too Far Below The Set Point Temperature.	Replace Relay Check Platen Resistance Replace P.C. Board
	5. Failures 1and 4 combined.	
	6. Failures 2 and 4 combined.	
	7. Failures 1, 2, and 4 combined.	
	8. Probe amplifier circuit failure.	Replace power/display.

	Failures 1 and 8 combined.
	Failures 2 and 8 combined.
	Failures 1, 2, and 8 combined.
	Failures 4 and 8 combined.
	Failures 1, 4, and 8 combined.
	Failures 2, 4, and 8 combined.

WIRING DIAGRAM