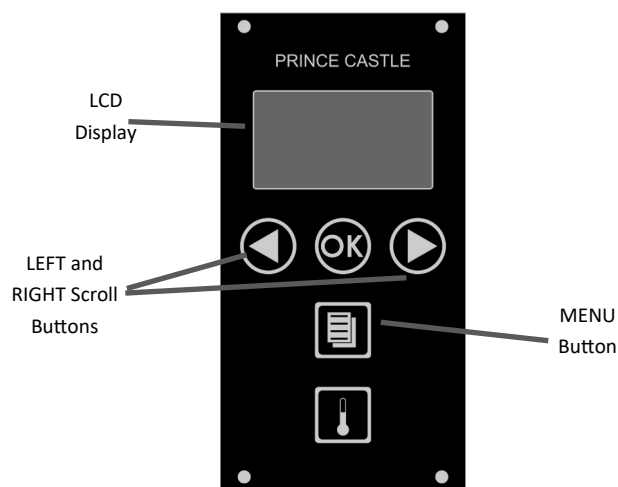
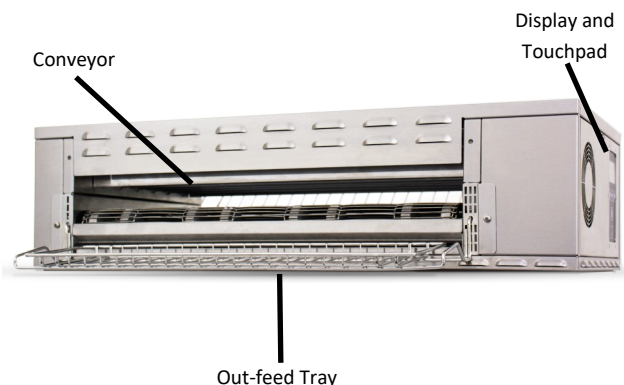


# Operation Manual

## Horizontal Infrared Toaster IRT-SB-NA-1PS IRT-SB-NA-3PS

### Product Identification



#### LIMITED WARRANTY

This product is warranted to be free from defects in material and/or workmanship for a period of two (2) years from date of original installation, not to exceed 30 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 (at the option of Prince Castle, Inc.) without cost to the customer for parts or labor.

This warranty is subject to the following exceptions/conditions:

- Use of any non-genuine Prince Castle parts voids this warranty and all work must be performed by an authorized Prince Castle Service Agent.

- All labor shall be performed during regular work hours. Overtime premium will not be covered.

- Travel charges are limited to 200 kilometers (100 miles) round trip, 2 hours travel time, one trip per repair.

- 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 is not covered.

- Damage to non-stick coated surfaces is not covered by this warranty.

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355 East Kehoe Blvd. • Carol Stream, IL 60188 USA  
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Fax: 630-462-1460 • [www.princecastle.com](http://www.princecastle.com)

# Horizontal Infrared Toaster

## IRT-SB-NA-1PS

## IRT-SB-NA-3PS



### Electrical Specifications

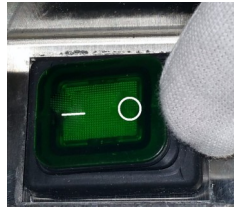
208V 60Hz 4500W 1PH

### Disconnect Power



#### WARNING

Failure to turn off the unit before servicing could result in severe bodily injury or death. Switch the On/Off switch to the Off position before servicing.



### Important

Prince Castle reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions, or replacements for previously purchased equipment.

### Safe Service Practices



#### WARNING

Indicates information important to the proper operation of the unit. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.



#### CAUTION

Indicates information important to the operation of the unit. Failure to observe may result in damage to the equipment.

#### GENERAL

This appliance is designed for toasting bread products in a commercial McDonalds kitchen. The dimensions of the bread products as defined by McDonalds.



#### CAUTION

Do not hose down or use a water jet on the unit. Keep the unit away from running water. Disconnect power cord before performing any cleaning or maintenance.



#### CAUTION

Equipment must be elevated from the floor at all times during cleaning and operation.

### Serial Number Matrix

The manufacture date is encoded in the unit's serial number. The service bench installation date (used to determine warranty coverage) is considered to be the end of the following month. For example:

Serial Number: FJ0000458  
Manufacture Date: June 2014  
Service Bench Installation Date: July 31, 2014

		SERIAL NUMBER MATRIX											
		2014	2015	2016	2017	2018	2019	2020	2021	2022			
		J	K	L	M	N	O	P	Q	R			
January	A	AJ	AK	AL	AM	AN	AO	AP	AQ	AR			
February	B	BJ	BK	BL	BM	BN	BO	BP	BQ	BR			
March	C	CJ	CK	CL	CM	CN	CO	CP	CQ	CR			
April	D	DJ	DK	DL	DM	DN	DO	DP	DQ	DR			
May	E	EJ	EK	EL	EM	EN	EO	EP	EQ	ER			
June	F	FJ	FK	FL	FM	FN	FO	FP	FQ	FR			
July	G	GJ	GK	GL	GM	GN	GO	GP	GQ	GR			
August	H	HJ	HK	HL	HM	HN	HO	HP	HQ	HR			
September	J	JJ	JK	JL	JM	JN	JO	JP	JQ	JR			
October	K	KJ	KK	KL	KM	KN	KO	KP	KQ	KR			
November	L	LJ	LK	LL	LM	LN	LO	LP	LQ	LR			
December	M	MJ	MK	ML	MM	MN	MO	MP	MQ	MR			

# Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS



## Installation

1

**Unpack and Inspect.** Remove the unit from the carton and inspect for signs of damage. If there is damage to the unit:

- Notify the carrier within 24 hours of delivery
- Save carton and packaging materials for inspection purposes.
- Contact your local dealer.

2

**Verify parts.** Verify that all parts have been received. When replacing parts use Prince Castle parts only.

- Horizontal Infrared Toaster
- Out-Feed Tray
- In Feed Rack
- Crumb Tray (Already installed)

3

**Place toaster on a sturdy surface.** Remove blue and/or white protective covering prior to powering on.

Clearance to be a minimum of 12 inches from side to wall and minimum 20 inches from back to wall .



**CAUTION**

Two man lift, unit weight is more than 50 lbs.

4

**Follow daily PM procedures.**

5

**Install In-Feed Rack .** Slide the in-feed rack onto 1 hook on each side. Ensure the rack is secure before operating the unit.



**Install Out-Feed Tray.** Insert the Out-Feed Tray onto one hook on each side. Ensure the rack is secure before operating the unit.



6

**Plug unit in.** Plug unit into a grounded receptacle with a matching plug configuration.



**WARNING**

All electrical connections must be in accordance with local electrical codes and any other applicable codes.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid hazards.

# Horizontal Infrared Toaster

IRT-SB-NA-1PS

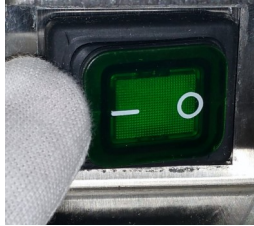
IRT-SB-NA-3PS



## Operation

1

**Turn unit ON.** Turn the On/Off switch located on back of toaster to ON. The Prince Castle screen will appear in the display for three seconds. (Ensure the conveyor is fully closed)



2

**Wait through Warm-Up.** During Warm-Up, the LCD display will read "WARMING UP". Warm-Up time, is about 15-20 minutes. Bagel Mode will come up by default



3

Select product to be toasted by touching the button until indicator light illuminates. Note: Conveyor belt will change speed based on product selected.

Muffin = White LED  
Bagel = Blue LED



4

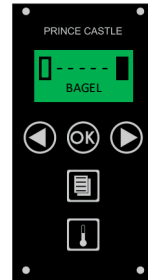


### WARNING

**BURN/ELECTRICAL SHOCK HAZARD!** Toaster can be HOT and can cause severe burns or severe shock. Keep hands and objects out of the toaster unit! Failure to exercise caution may result in serious injury! Turn the unit off, and let it cool down completely before touching or working on internal apparatus.

#### Watch for Product.

When ready temperature is reached, the LCD display will read "BAGEL" or "MUFFIN" depending on the mode.



5

**Feeding in Muffins and Bagels.** Feed product cut side up in the in feed wire racks shown. Rack will allow 6 muffin or 5 bagels across.



6

**Adjusting Toast.** For lighter toast, press and hold, ~5 seconds, directional key (left) until indicator move towards lighter rectangle. For darker toast, repeat with the direction key (right) that points toward the blackened rectangle.



## Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS



### Operation

7

**Remove Stuck Product.** Retrieve stuck product by first shutting off the power to the unit. **BE CAREFUL NOT TO CONTACT INTERNAL COMPONENTS DURING RETRIEVAL, THEY WILL BE VERY HOT. DO NOT CONTACT HEATING ELEMENTS DURING RETRIEVAL. DAMAGE MAY OCCUR.**





# Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS



## Cleaning



### WARNING

**BURN/ELECTRICAL SHOCK HAZARD! Toaster can be HOT and can cause severe burns or severe shock. Keep hands and objects out of the toaster unit until fully cool ! Failure to exercise caution may result in serious injury! Turn the unit off, and let it cool down completely before touching or working on internal apparatus.**

1

Remove crumbs from conveyor crumb tray by wiping with a clean, sanitizer-soaked towel. Spray a clean, sanitizer-soaked towel with Heavy Duty Degreaser solution then wipe down the conveyor crumb tray. Rinse crumb tray with a separate clean, sanitizer-soaked towel.



2

Spray a clean, sanitizer-soaked towel with Heavy Duty De-greaser solution then wipe down the in-feed rack. Rinse the in-feed rack with a separate, clean sanitizer soaked towel.



3

Spray a clean, sanitizer-soaked towel with Heavy Duty De-greaser solution then wipe down the out-feed rack. Rinse the out-feed rack with a separate, clean sanitizer-soaked towel.



4

Spray a clean, sanitizer-soaked towel with Heavy Duty De-greaser solution then wipe down the exterior of unit. Rinse the exterior of unit with a separate, clean sanitizer-soaked towel.



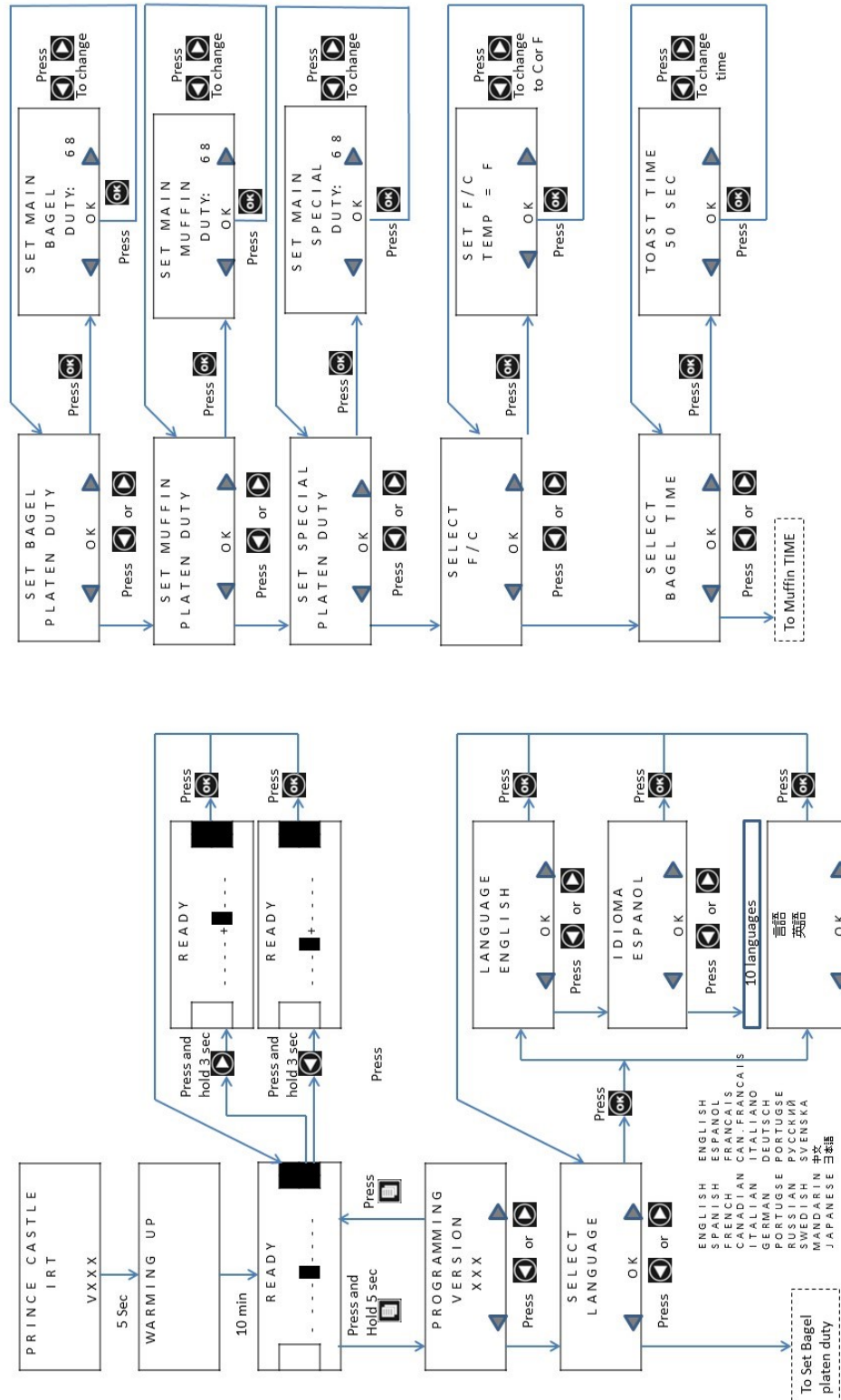
# Horizontal Infrared Toaster

IRT-SB-NA-1PS

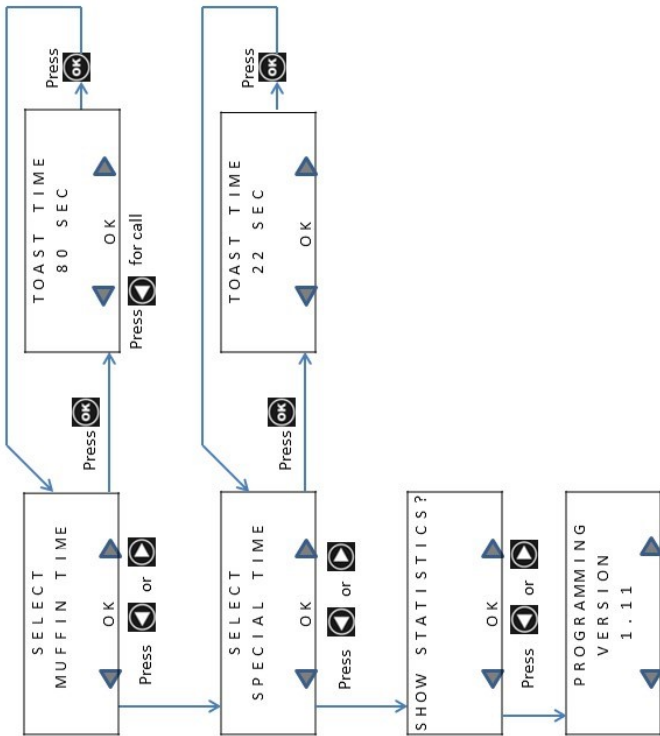
IRT-SB-NA-3PS



## Display Menu Options



Display Menu Options (Continued...)





# Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS



## Management Programming

1

To Enter Programming screens  
Press and hold the MENU  
button for 6 seconds. The  
PROGRAMMING VERSION  
screen will appear in the LCD  
display.

From the PROGRAMMING  
VERSION screen, you may:

Press RIGHT scroll  
button to advance to the  
next menu item



3

To Adjust SET BAGEL  
PLATEN DUTY from the  
SELECT LANGUAGE  
Screen, press the RIGHT  
scroll button. Press the OK  
button to enter the program-  
ming screen.

- A. From the SET BAGEL  
DUTY screen that  
appears adjust  
the set point duty  
Using the RIGHT and  
LEFT scroll buttons.  
Accept the new Duty  
By pressing OK.

NOTE : To cancel without  
accepting the new setting,  
press the MENU logo button  
to return to the previous screen



2

To Change the LANGUAGE  
from the PROGRAMMING  
VERSION

Screen, PRESS the left scroll  
button.

From the SELECT  
LANGUAGE Screen,  
Press OK button

- A. From the  
LANGUAGE screen  
that appears, use  
the RIGHT and  
LEFT scroll buttons.  
TO select different  
Language  
B. Accept the new  
language by pressing  
OK button to return to  
the SELECT  
LANGUAGE screen



4

To Adjust SET MUFFIN  
PLATEN DUTY from the  
SET BAGEL PLATEN DUTY  
Screen, press the RIGHT  
scroll button. Press the OK  
button to enter the program-  
ming screen.

- A. From the SET MUFFIN  
DUTY screen that  
appears adjust  
the set point duty  
Using the RIGHT and  
LEFT scroll buttons.  
Accept the new Duty  
By pressing OK.

NOTE : To cancel without  
accepting the new setting,  
press the MENU logo button  
to return to the previous screen



# Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS



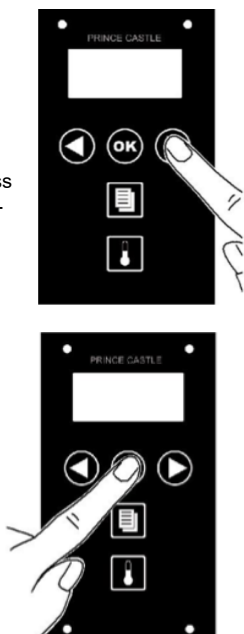
## Management Programming (Continued)

5

To Adjust SET SPECIAL PLATEN DUTY from the SELECT MUFFIN PLATEN DUTY screen, press the RIGHT scroll button. Press the OK button to enter the programming screen.

- A. From the SET SPECIAL DUTY screen that appears adjust the set point duty Using the RIGHT and LEFT scroll buttons. Accept the new Duty By pressing OK.

NOTE : To cancel without accepting the new setting, press the MENU logo button to return to the previous screen



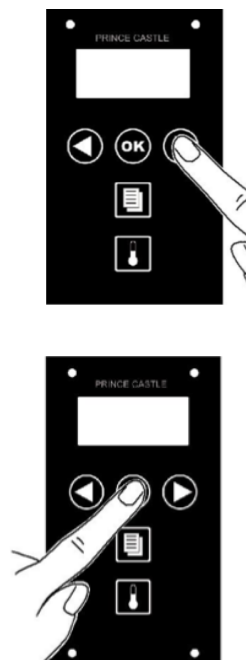
7

To adjust set point BAGEL TOAST TIME from the SELECT F/C screen, press the RIGHT scroll button

From the SELECT BAGEL TOAST TIME Screen, Press OK button

- A. From the SELECT BAGEL TIME that appears, Adjust the set point Time Using the RIGHT and LEFT Scroll buttons. Accept The new toast time by Pressing OK.

NOTE : To cancel without accepting the new setting, press the MENU logo button to return to the previous screen

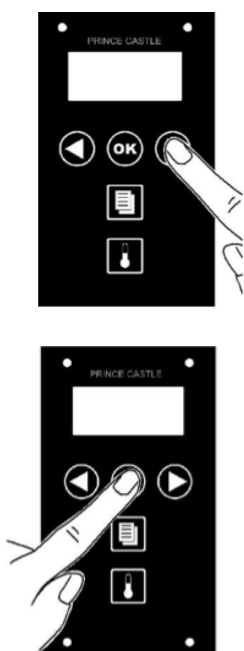


6

To adjust the SELECT F/C From The SELECT SPECIAL PLATEN DUJTY screen, press the RIGHT scroll button.

From the SELECT F/C screen that appears, press the OK button.

- A. From the SET F/C Screen that appears, Use the LEFT and RIGHT scroll buttons to Select TEMP = F ( Fahrenheit ) or C (Celsius )
- B. Accept the new scale By pressing the OK Button to return to The SELECT F/C screen



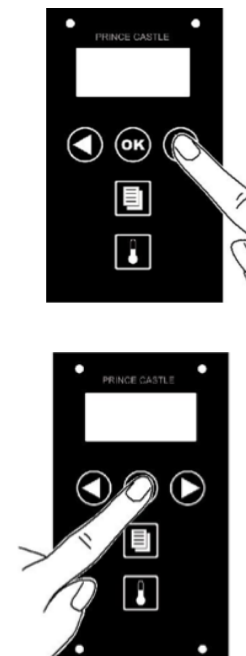
8

To adjust set point MUFFIN TOAST TIME from the BAGEL TOAST TIME screen, press the RIGHT scroll button

From the SELECT MUFFIN TOAST TIME Screen, Press OK button

- A. From the SELECT MUFFIN TIME that appears, Adjust the set point Time Using the RIGHT and LEFT Scroll buttons. Accept The new toast time by Pressing OK.

NOTE : To cancel without accepting the new setting, press the MENU logo button to return to the previous screen



# Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS



## Management Programming (Continued)

9

To adjust set point SPECIAL TOAST TIME from the MUFFIN TOAST TIME screen, press the RIGHT scroll button

From the SELECT SPECIAL TOAST TIME Screen, Press OK button

- A. From the SELECT SPECIAL TIME that appears, Adjust the set point Time Using the RIGHT and LEFT Scroll buttons. Accept The new toast time by Pressing OK.

NOTE : To cancel with/out accepting the new setting, press the MENU logo button to return to the previous screen



11

To view Service Codes, From the SPECIAL MODE ENABLE / DISABLE screen, press the RIGHT scroll button once.

From the Service Codes screen,

- A. Select OK to check the service codes  
B. Refer to Service codes page to understand the operation of the unit.



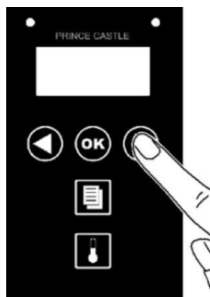
10

To Enable or Disable Special Mode, from the SPECIAL TOAST TIME screen, press the RIGHT scroll button once.

From the SPECIAL MODE ENABLE/DISABLE Screen, Press OK button

- A. From the SPECIAL MODE ENABLE/DISABLE screen that appears, Adjust the toggle Using the RIGHT and LEFT Scroll buttons. Accept The setting by Pressing OK.

NOTE : To cancel with/out accepting the new setting, press the MENU logo button to return to the previous screen



12

Exit Programming

Press the MENU button from any screen to exit programming mode.

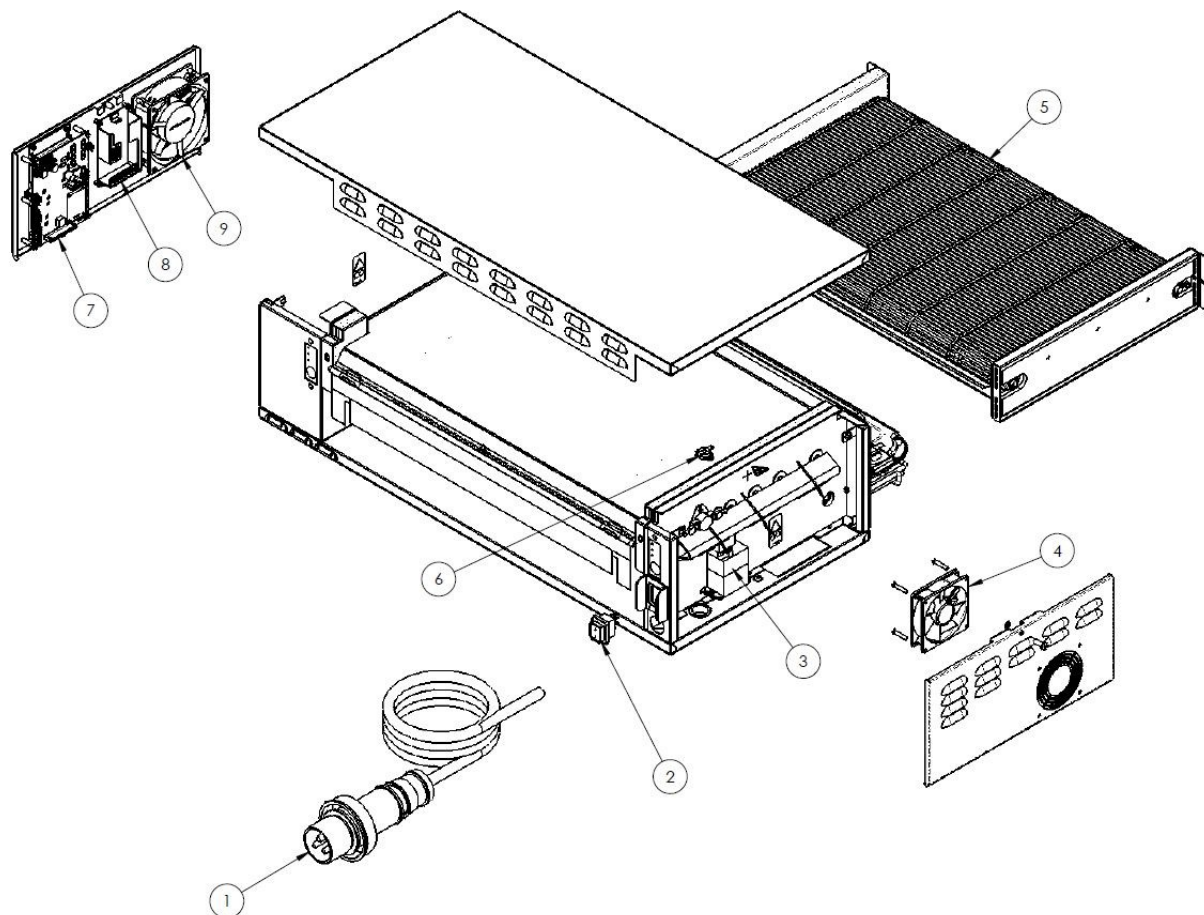


# Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS

## Exploded View and Parts List



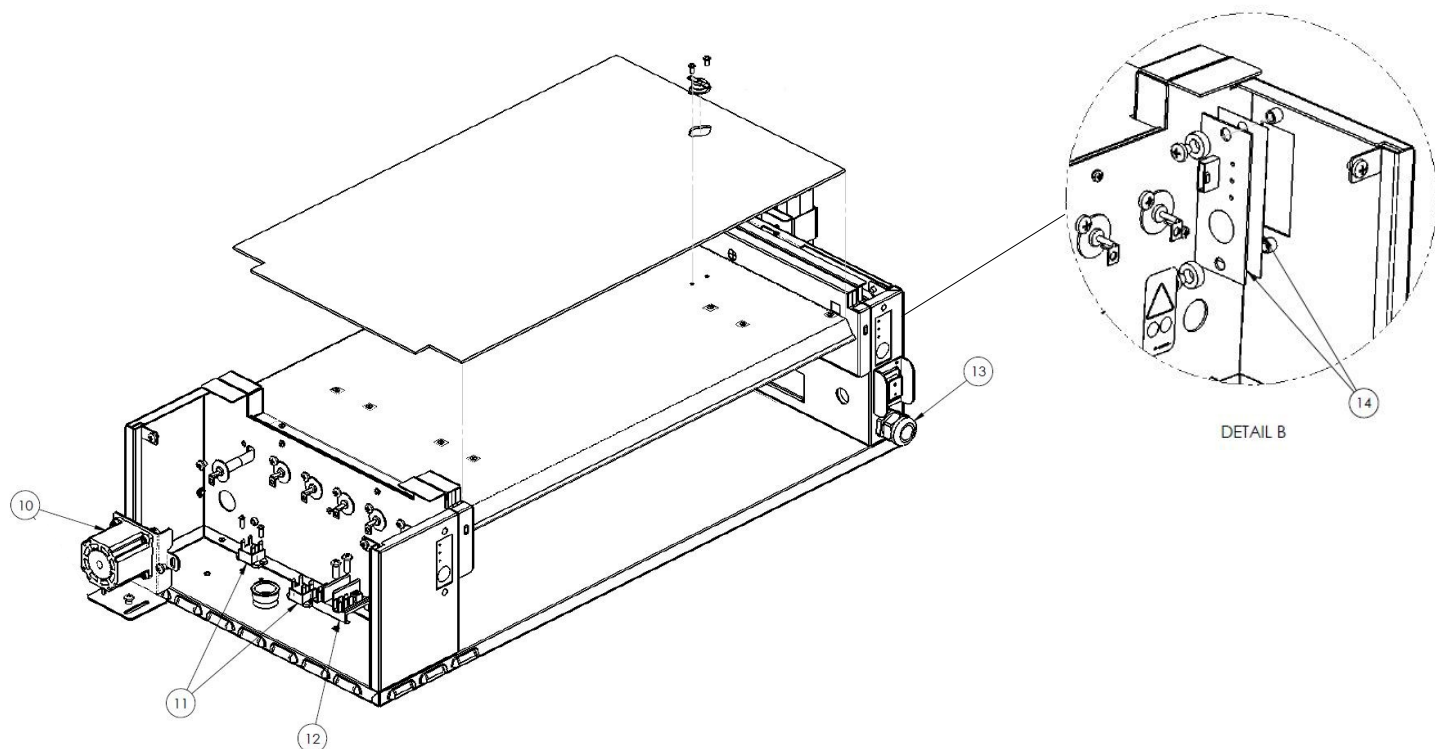
Item #	Part #	Description	Qty
1	72-478S	POWERCORD (FOR IRT-SB-NA-1PS)	1
1	72-471S	POWERCORD (FOR IRT-SB-NA-3PS) NOT SHOWN	1
2	78-233S	SWITCH, ROCKER, DPST, IP65, 16A	1
3	65-067S	RELAY, DPST, 30A, 200/240, 50/60	1
4	86-582S	FAN. 11 A DC 92MM	1
5	353-164S	WIRE BELT	1
6	353-394S	THERMOSTAT, SNAP DISC CONTROL, 120	1
7	353-262IS	PCB, MAIN CONTROLLER	1
8	85-144-24S	PWER SUPPLY, 24VDC 100W	1
9	37814S	MOTOR FAN, 230V	1

## Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS

### Exploded View and Parts List (Continued)



Item #	Part #	Description	Qty
10	353-134S	MOTOR ASSY	1
11	353-313S	RELAY, 4-8VDC, 20A	3
12	77-093S	TERMINAL BLOCK 12POS 2ROW INSULATED	1
13	66-045S	STRAIN RELIEF	1
14	353-426S	PCB, BREAD SELECT BOARD	2

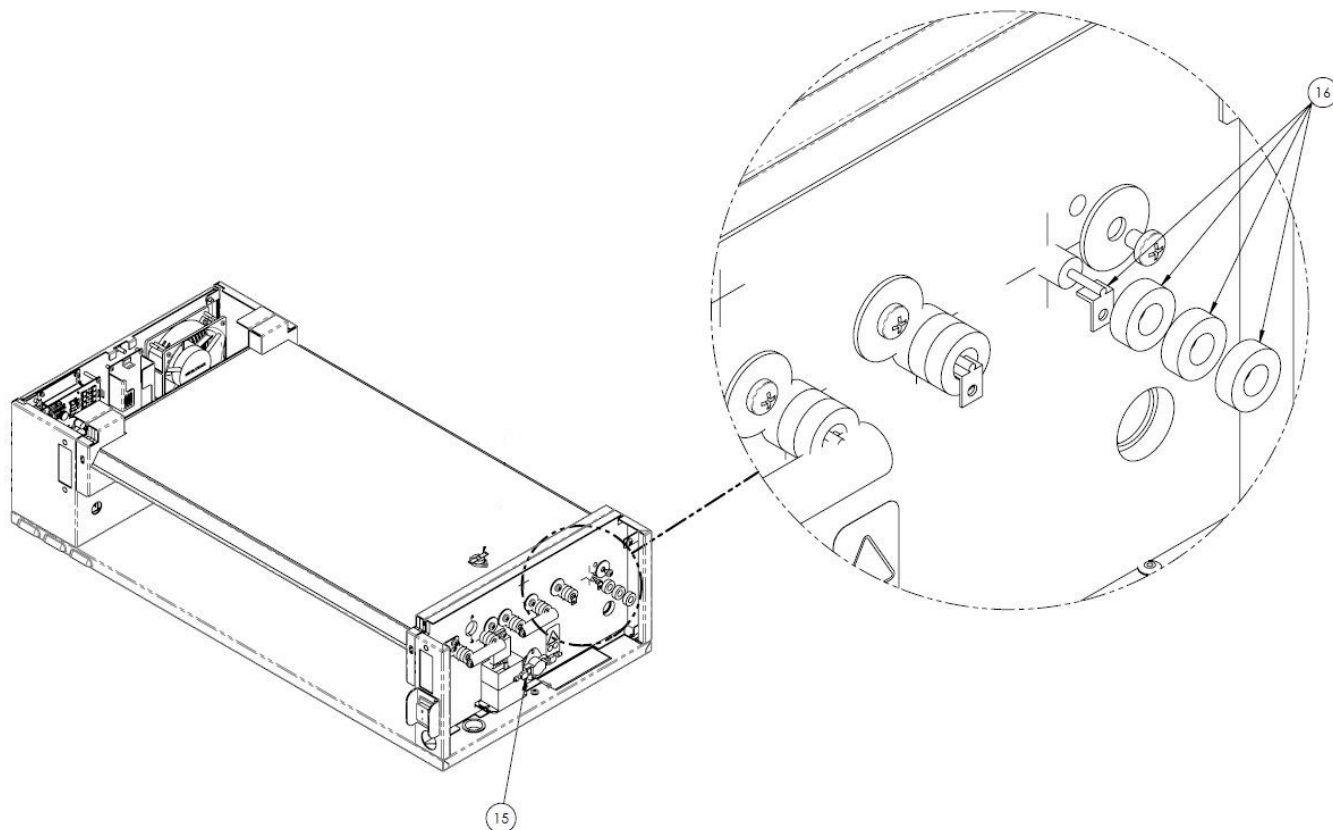


## Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS

### Exploded View and Parts List (Continued)



Item #	Part #	Description	Qty
15	353-489S	THERMOSTAT, NC 350F, LIMIT CONTROL, IRT	1
16	353-158S	CALROD	6
17	353-716S	ASSY, MEMBRANE SWITCH & OVERLAY (NOT SHOWN)	1

# Horizontal Infrared Toaster

IRT-SB-NA-1PS

IRT-SB-NA-3PS



## Troubleshooting Guide

**BURN/ELECTRICAL SHOCK HAZARD! Platen is HOT and can cause severe burns or severe shock.**

**Keep hands and objects out of the toaster unit! Failure to exercise caution may result in serious injury!**

**Turn the unit off, unplug it and let it cool down completely before touching or working on internal apparatus.**

PROBLEM	PROBABLE CAUSE	SOLUTION
Unit will not heat up	No power to unit.	Ensure power cord is connected to proper receptacle.
	Inoperable power cord	Call for Service (800) 722-7853
	Loose connection on power switch	Call for Service (800) 722-7853
	Inoperable power switch	Call for Service (800) 722-7853
	High limit switch tripped	Turn off unit for 20 minutes, and re-start. If high limit switch continues to trip, Call for service (800)722-7853
	Inoperable Heating Element	Call for Service (800) 722-7853
Unit heats up, but the conveyor does not run	Loose motor switch connection.	Call for Service (800) 722-7853
	Loose Conveyor Shaft Drive Collar	Call for Service (800) 722-7853
	Inoperable motor.	Call for Service (800) 722-7853
Unit does not respond to programming.	User interface Malfunction	Call for Service (800) 722-7853
Product under-or over-done.	Check recommended toast time. See operations manual.	See Programming Guide
	Check Power Settings	See Programming Guide