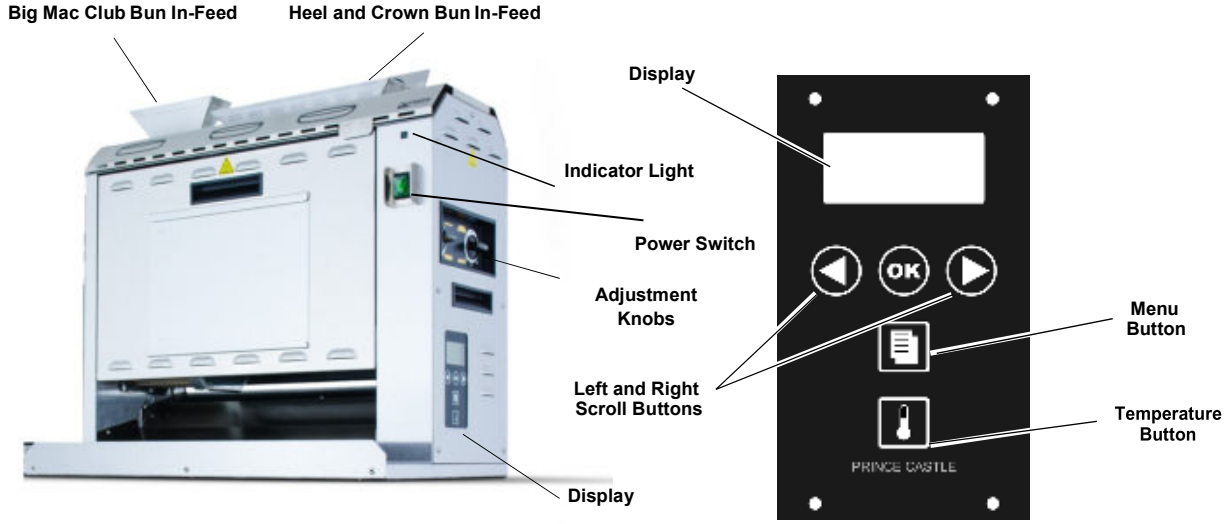
Service Manual

Vertical Toaster
DCFT-MCD Series

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.

TABLE OF CONTENTS

Product Identification 1
Safety Information 2
Important 2
Electrical Specifications 2
Installation 3
Operation 5
Management Programming 7
Lighter/Darker Adjustment. 11
Release Sheet Replacement Instructions. 12
Club Belt Replacement Instructions. 13
Troubleshooting. 15
Optional Accessory. 16
Parts List. 16

SCAN FOR DCFT INFORMATION

FREE TECHNICAL SERVICE
1-800-PCASTLE ext. 1
INTERNATIONAL SUPPORT
1-630-462-8800 ext. 1

PRINCECASTLE
MARMON FOODSERVICE TECHNOLOGIES
A BERKSHIRE HATHAWAY COMPANY

355 East Kehoe Blvd. • Carol Stream, IL 60188 USA
Telephone: 630-462-8800 • Toll Free: 1-800-PCASTLE
Fax: 630-462-1460 • www.princecastle.com

WARNING
Before first use of this equipment, read these instructions!

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Safety Information

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 McDonald's kitchen. The dimensions of the bread products as defined by McDonald's.

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.

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.

Electrical Specifications

DCFT-MCDAU 240VAC, 6500W, 50 Hz, 1 Ph.

DCFT-MCDCE 200-240VAC, 4500-6500W, 50/60 Hz, 1 Ph.
DCFT-MCDNA 208VAC, 5075W, 60 Hz, 1 Ph.

DCFT-MCDNZ 230VAC, 6000W, 50 Hz, 1 Ph.

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.

Vertical Toaster.
Top Cover, Prince Castle Kit
Part Number 527-761S.



- Release Sheet,
  Prince Castle Kit Part Number 527-389S.



- Wire Bun Rack,
  Prince Castle Kit Part Number 527-346S.



- Platen Recovery Tool and Pad,
  Prince Castle Kit Part Number 527-778S.





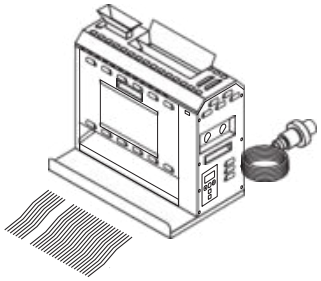
3 **Place toaster on flat surface.** Remove blue and/or white protective covering.

CAUTION

Two man lift, unit weight >60 kg (132 lbs). Appliance designed to be placed on a McDonald's specified table

4 **Follow daily PM procedures** (for first time use).

5 **Install wire bun chute.** Slide the wire bun chute over the landing zone and into the toaster.



Position the chute so that the rear of the chute is secured by 2 posts at the rear of the toaster.



Front edge of the wire bun chute should be positioned at the edge of the toaster landing zone.

Proper Installation of Wire Bun Chute

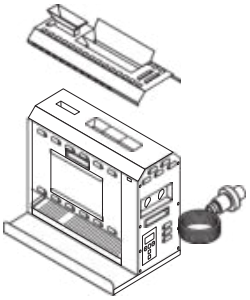


Improper Installation of Wire Bun Chute

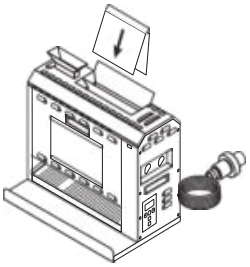


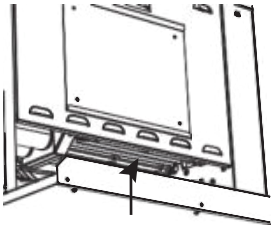
Installation (continued)

6 **Install top cover.** Tighten screws on both sides of top.



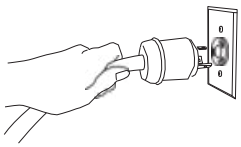
7 **Install release sheet over platen.** 12.7 mm (1/2") of release sheet should extend below platen on both sides of platen.





8 **Allow toaster to warm up.** Allow toaster to warm up to at least 0°C/32°F before turning on or error messages may occur.

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

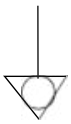


WARNING

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.

To prevent an electric shock hazard, this device must be bonded to equipment in close proximity with an equipotential bonding conductor. This device is equipped with grounding lug for this purpose and is marked with the following symbol.



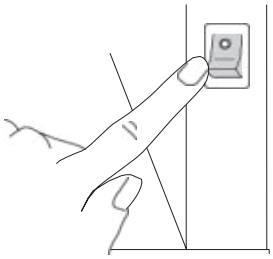
10 **Adjust MFY/BOP setting.** Toaster ships in MFY mode (club heaters on). If this is a BOP store, change from MFY to BOP setting in programming mode to turn off club section heaters for additional energy savings.

BOP setting is only used when not toasting BigMac buns (for example, toaster used on white meat side of a BOP kitchen only).

Operation

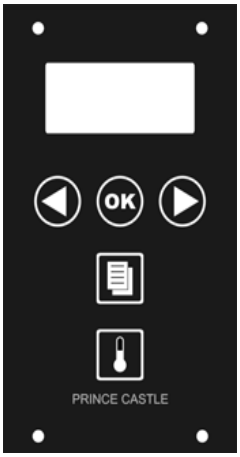
1 **Turn unit ON.** Turn the On/Off switch located on back of toaster to ON. The Prince Castle DCFT screen will appear in the LCD display for 3 seconds.

(Make sure front and back doors are closed)



2 **Wait through Warm-Up.** During Warm-Up, the LCD display will read "STATUS" and "PLEASE WAIT…". Warm-Up time, is about 10-15 minutes.

During Warm-Up the front LED (Crew User Interface) blinks. A constant green light indicates that the toaster is ready.



3

WARNING

BURN/ELECTRICAL SHOCK HAZARD! Platen sections are 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.

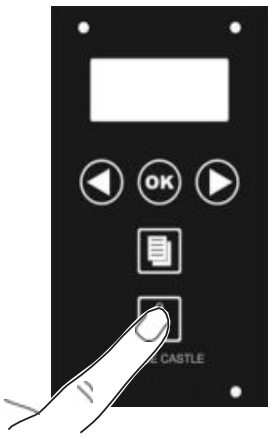
Watch for READY status. When ready temperature isreached, the LCD display will read "STATUS" and "READY".

A constant green light at the front LED also indicates that the toaster is ready.

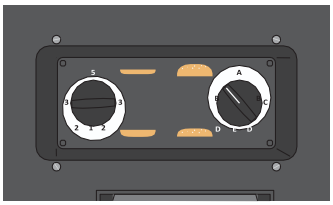


4 **View temperatures, if desired.** Pressing the TEMPERATURE

button once will display the front and rear platen actual temperatures. Pressing a second time will return the LCD display to the READY screen.



5 **Choose the compression adjustments.** Dial the front platen adjustment knob for the product part (Regular Heel, etc.) that you will be toasting in the



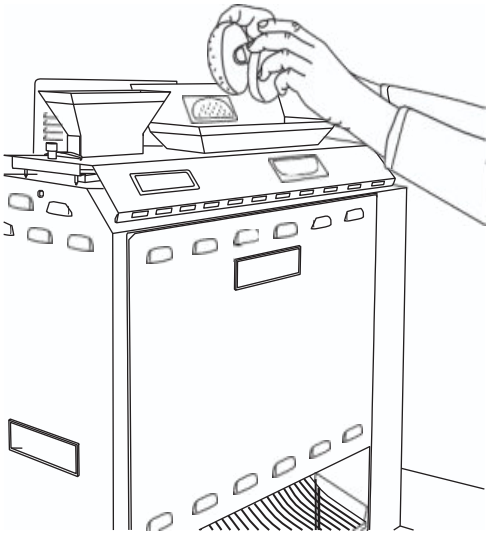
unit. Dial the rear platen adjustment knob for the product part (Regular Crown, etc.) that you will be toasting in the rear of the unit.

Because of variances in bun production, it may be necessary to adjust the bun compression for the Crown and Heel. The Club compression is not adjustable. Increase bun compression if buns are toasted too light. Be careful not to over compress the buns.

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Operation (continued)

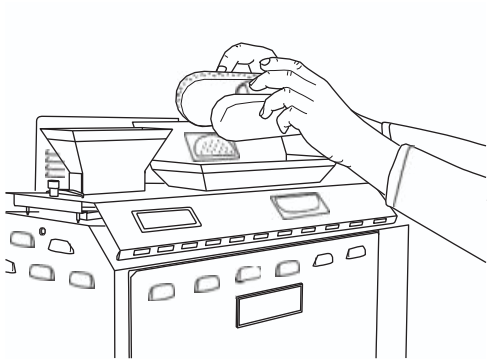
6 **Begin continuous feeding.** Feed product into top of DCFT. Heels are toasted in the front slot and crowns are toasted in the rear slot. The sides to be toasted should face the platen (Teflon sheet). For BigMac Clubs use the left in-feed.

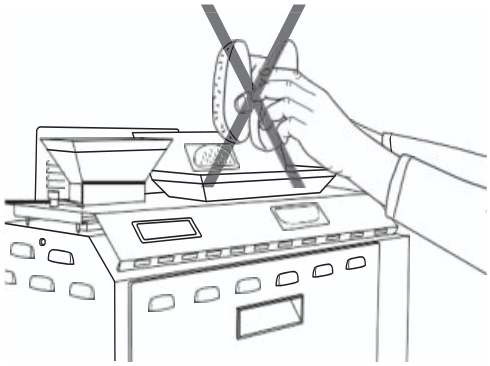


Toasted product will exit at the base of the DCFT. If a bun gets jammed inside of the toaster, turn the toaster off and remove the bun with the BUN REMOVAL TOOL ONLY! Never use your fingers, tongs, etc.!

IMPORTANT

For oblong buns, insert the bun horizontally (with the widest edge down), NOT vertically.

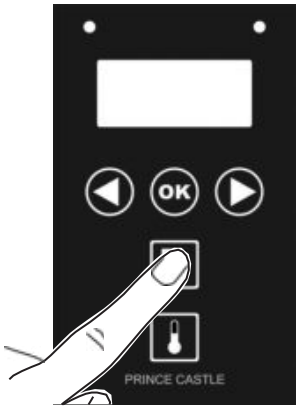




Management Programming

1 **Enter program screens.** Press and hold the MENU button for 6 seconds. The PROGRAMMING VERSION screen will appear in the LCD display for 10 seconds.

From the PROGRAMMING VERSION screen, you may:



Press RIGHT scroll button to advance to the next menu item.



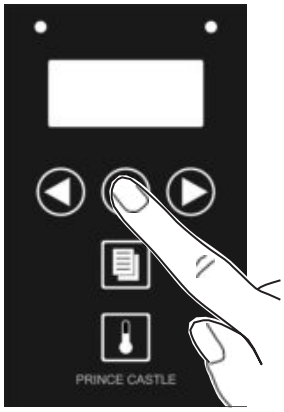
2 **Choose Fahrenheit or Celsius.** From the PROGRAMMING VERSION screen, press the RIGHT scroll button three times.



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 TEMP = C (Celsius).

B. Accept the new scale by pressing the OK button to return to the SELECT F/C screen.



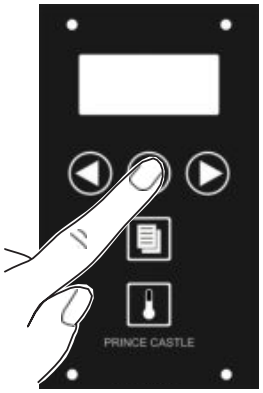
NOTE: To return without accepting the new setting, press the MENU button.

Management Programming (continued)

3 Adjust set point temperatures. From the SELECT F/C screen, press the LEFT scroll button.



From the SET PLATEN TEMPERATURES screen, press the OK button.

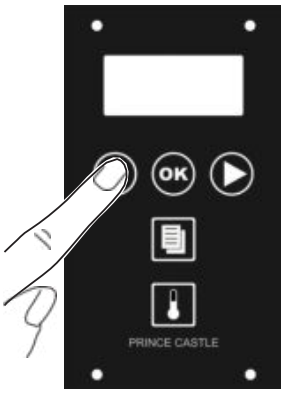


A. From the SET MAIN screen that appears, adjust the platen set point temperature using the RIGHT and LEFT scroll buttons. Accept the new main platen setting by pressing the OK. The SET CLUB FRONT screen will appear.

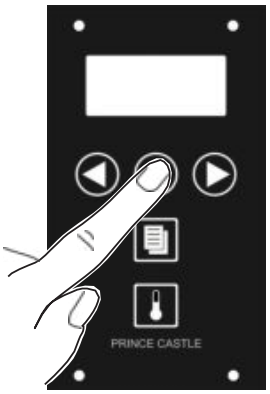
B. Press OK button if no change, or use the RIGHT and LEFT scroll buttons to adjust, then press OK to save. Accept the new main platen setting by pressing the OK button. The SET CLUB BACK screen will appear.

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

4 Change language. From the SELECT PLATEN TEMPERATURE screen, press the LEFT scroll button.



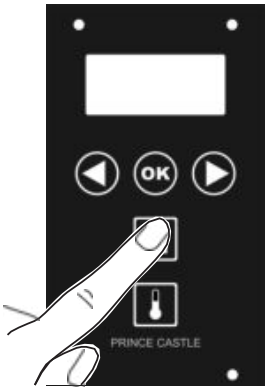
From the SELECT LANGUAGE screen, press the OK button.



A. From the LANGUAGE screen that appears, use the RIGHT and LEFT scroll buttons to select a different language.

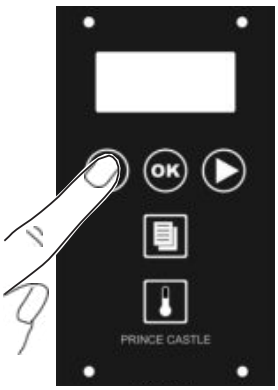
B. Accept the new language by pressing the OK button to return to the SELECT LANGUAGE screen.

NOTE: To return without accepting the new setting, press the MENU button.



Management Programming (continued)

5 Select Toast Time. From the PROGRAMMING VERSION screen, press the LEFT scroll button three times.

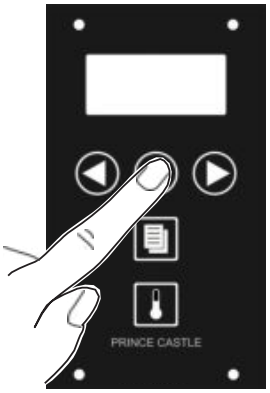


From the SELECT TOAST TIME screen, press the OK button.

The current toast time selection will be displayed.

A. Press LEFT scroll button to decrease the toast time. Press OK button when you reach desired time.

B. Press RIGHT scroll button to increase the toast time. Press OK button when you reach desired time.



6 Select MFY store. From the PROGRAMMING VERSION screen, press the LEFT scroll button once.



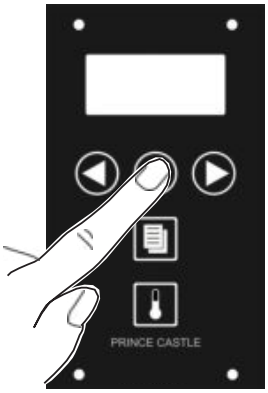
From the MFY STORE screen, press the OK button.

In the MFY STORE ?

screen:

A. Select YES, (press LEFT scroll button) if it is MFY store. This is the default state for DCFT toaster. All heaters are active.

B. Select NO, (press RIGHT scroll button) if it is BOP store. This selection will deactivate club platen heaters.

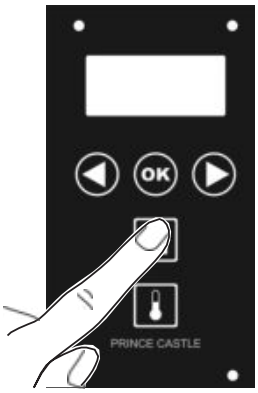


NOTE: Although club heaters are deactivated, front club platen temperature will display a temperature as high as 193°C/380°F, due to the heat transfer from the main platen, which is normal.

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Management Programming (continued)

7 Exit programming. Press the MENU button from the SELECT F/C, SELECT PLATEN TEMPERATURE or SELECT LANGUAGE screen or leave the controls inactive for 10 seconds.



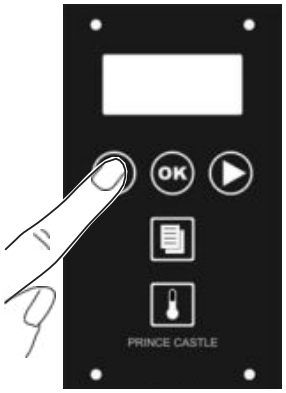
Toaster Settings	
Description	**Factory Presets**
Main Platen (Buns)	263˚C/505˚F (243˚C/470˚F US & AU Only)
Front Club Platen	260˚C/500˚F (243˚C/470˚F US & AU Only)
Rear Club Platen	260˚C/500˚F (243˚C/470˚F US & AU Only)
Crown Compression	B
Heel Compression	3
Toast Time	17 Sec. (22 Sec. US & AU Only)
Store (MFY or BOP)	MFY (Club Platens on)
Language	English

			A/1	B/2	C/3	D/4	E/5
mm	**Crown**	1	17.729	17.526	16.535	15.469	15.037
		2	17.729	17.551	16.535	15.443	15.062
		3	17.755	17.602	16.535	15.469	15.037
		4	17.780	17.577	16.561	15.494	15.011
		5	17.805	17.551	16.535	15.494	15.062
		Avg.	17.760	17.562	16.540	15.474	15.042
	Heel	1	12.878	12.624	11.938	10.744	10.414
		2	12.929	12.624	11.887	10.770	10.414
		3	12.929	12.598	11.862	10.795	10.389
		4	12.929	12.624	11.887	10.719	10.363
		5	12.903	12.624	11.862	10.770	10.389
		Avg.	12.913	12.619	11.887	10.759	10.394

Club Gap	**Without Belts:** 13.53mm
	With Belts: 13.84mm

Lighter/Darker Adjustment

1 **Make adjustments.** Press and hold either the LEFT or RIGHT scroll button for 2 seconds to adjust the toast darkness setting indicator. Use the LEFT arrow to lighten the toast or the RIGHT arrow to darken the toast.



2 **Return to display.** Press the MENU button briefly to return to the normal display mode.



Release Sheet Replacement Instructions

The release sheet should be replaced every 3 months or if sheet is worn, torn, excessively curled or if there is excessive buildup on sheet.

Excessive buildup, sheet should be replaced.



Excessively curled sheet should be replaced.



New release sheet.



1 **Put on a pair of high temperature gloves.**

2 **To replace release sheet, remove old sheet.**



3 **Fold and crease release sheet.** Fold release sheet in half and create a crease in the center of the sheet.



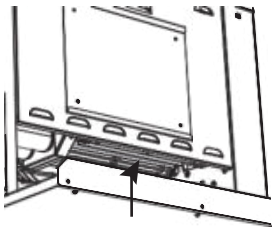


4 **Install new release sheet.** Be sure that sheet is centered over platen and the crease in sheet is centered.



5 **Insert the release sheet over the center bar of the in-feed chute with one end of the sheet in the Crown slot and one end in the Heel slot.** Position the crease on the release sheet on top of the in-feed chute center bar. Be sure that the sheet corners are not curled, exposing the platen. Check to see that

12.7 mm (1/2") of release sheet extends below each side of the platen. If 12.7 mm (1/2") of the release sheet does not extend below the bottom of the platen, then the sheet is not properly positioned.



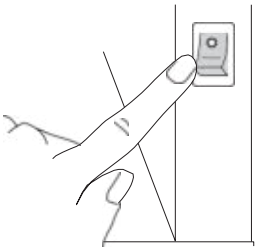
Club Belt Replacement Instructions

Depending on toaster use, the club belts should be replaced approximately every 6 months. Belts should be replaced if worn or torn.

Torn belt should be replaced.



1 **Turn toaster OFF and unplug toaster.**



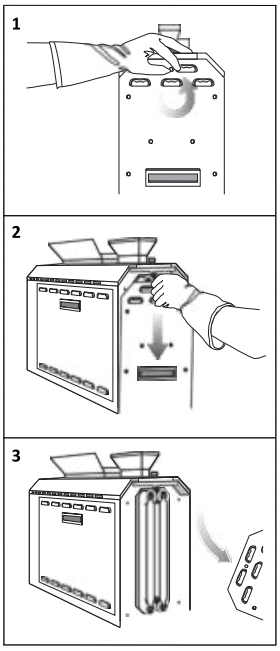
2 **Put on a pair of high temperature gloves.**

3 **Loosen thumbscrew on left-hand side cover and pull cover down to remove.**









4 **Pivot latch arm and secure in metal clip.**





5 **Remove belt tension by pivoting tension arms up.**







6 **Remove old belts.**





7 **Install new belts.**





Club Belt Replacement Instructions (continued)

8 **Be sure that bead on belt rides in groove in belt rollers.**




9 **Pivot tension arms down and pivot and engage latch arm.**




10 **Engage hooks on rear of side cover into slots in toaster frame and slide side cover up.**

Tighten thumbscrew to secure side cover.





Troubleshooting

WARNING

BURN/ELECTRICAL SHOCK HAZARD! Platen sections are 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	POSSIBLE CAUSE	SOLUTION
Unit will not heat up.	Door is partially open.	Close doors.
	No power to unit.	Ensure power cord is connected to proper receptacle.
	High limit switch tripped.	Reset high limit switch, and closely monitor platen temperature during power up.
	Inoperable power cord.	Please call your local service representative.
	Loose connection on power switch.	Please call your local service representative.
	Inoperable power switch.	Please call your local service representative.
	Inoperable thermostat.	Please call your local service representative.
	Inoperable platen.	Please call your local service representative.
Unit heats up, but the conveyor does not run.	Door is partially open.	Close doors.
	Loose motor connection.	Please call your local service representative.
	Inoperable motor.	Please call your local service representative.
	Stripped drive gear.	Please call your local service representative.
	Loose chain sprockets.	Please call your local service representative.
Unit under- and over-heats (does not respond to programming).	Check temperature setting.	Adjust temperature set point setting. See Management Programming.
	Inoperable thermostat.	Please call your local service representative.
Buns under or over done.	Check platen compression adjustment. (See Operation.)	Move platen adjustment knobs to the correct product part setting.
	Check platen temperature. (From READY screen, pressing the INFORMATION button once will display the left and right platen actual temperatures.)	Adjust temperature set point setting. See Management Programming.
	Toaster may be set to BOP mode (club heaters off).	Switch to MFY mode. See Management Programming.
	Incorrect adjustment of Lighter/Darker.	Adjust lighter/darker setting. See Lighter/ Darker Adjustment.
	Toast time may be incorrect.	Adjust toast time to correct setting. See Management Programming.
Buns do not drop down through the chute.	Bun stuck in the chute.	Turn off toaster. Push stuck bun through the chute from the top of the toaster with bun removal tool.
	Release sheet not properly installed.	Insert release sheet over center bar on in- feed chute so that 12.7 mm (1/2") of release sheet ends extend below the platen.
	Release sheet has too much buildup	Replace release sheet.
	Oblong/irregular bun inserted in wrong orientation.	Oblong buns must be inserted horizontally, not vertically.
Emergency situation.	Water sprayed into running unit. Unit sparks.	Turn off power switch if possible. Turn off circuit breaker or disconnect power plug from the outlet. Call your local service representative.
	Fire	
	Melting	

Optional Accessory

A Club Feed Extension is available as an optional accessory for the Prince Castle DCFT. The Club Feed Extension permits easy access to the BigMac Club In-Feed from both sides of the toaster for single toaster prep lines.

Club Feed Extension,
Prince Castle Kit Part Number 527-817S.





Parts List

Item No	Part No	Description
1	527-761S	Top Cover Kit
2	527-389S	Release Sheet Kit
3	527-346S	Wire Bun Rack Kit
4	527-778S	Platen Recovery Tool and Pad Kit
5	527-808S	Bun Guide
6	527-817S	Club Feed Extension Kit

Correct Disposal of this Product

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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