## BIG MAC 6-BUN TOASTER PRINCE CASTLE MODEL NO. 416-LFMCE



This equipment chapter is to be placed in the toasters section of your *Equipment Manual* 

MANUFACTURED FOR

MCDONALD'S®

BY

PRINCE CASTLE INC.

355 KEHOE BLVD

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#### WARRANTY

This product is warranted to be free from defects in material and/or workmanship for a period of (1) year from date of original installation not to exceed 18 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:

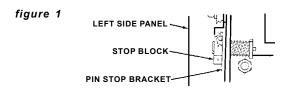
- Any use of Non-genuine Prince Castle spare parts voids this warranty.
- All labor should be performed during regular working hours. Overtime premium will not be covered.
- The equipment is portable. Charges for on location service (e.g. trip charges, milage) are **only** included in the provisions 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.

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## **INSTALLATION**

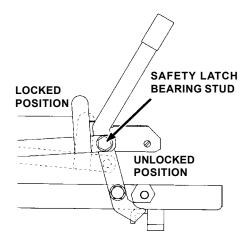
- After you have removed the toaster from the carton, inspect the unit for signs of damage. If there is damage to the unit:
  - Notify carrier within 24 hours after delivery.
  - Save carton and packing materials for inspection purposes.
  - Contact your local Prince Castle Supplier
- Verify that all parts have been received.
- 3. Insert the power cord into a grounded 230 volt outlet.
- 4. Ensure that the platens are in the up position while the toaster warms up. This will make sure the timer is not activated.
- Ensure the stop blocks are set on the correct setting for the size bun you are toasting. Improper stop block setting results in lighter or darker toasted buns or crushed buns. See figure 1.

**IMPORTANT:** To change stop block setting, depress the right stop block to disengage locking pin and turn in either direction.



6. Unlock handle by moving safety latch from the locknut to the safety latch park nut. See figure 2.

figure 2



**IMPORTANT:** To convert a 35 second toaster to a 55 second toaster, turn 35-55 second time select switch, located underneath lower electrical box, to 55 second position. Recalibrate temperature on both platens from (216° +/- 3°C) to (204° +/- 3°C).

### **OPERATION**

- 1. Place (6) crowns face down on bun spatula.
- 2. Place (6) heels face up on bun tray.
- 3. Place (6) clubs on bun spatula.
- 4. Lift upper bun board and insert spatula with crowns
- 5. Lower bun board down on top of spatula. Slide spatula out.
- 6. Insert spatula with clubs into center compartment. Slide spatula out.
- 7. Insert the tray with heels into the lower compartment of toaster.
- 8 Pull handle/lever assembly forward and down on top of heels. This will activate the timer assembly.
- When the buzzer sounds, immediatly push handle up and back to release heels from heating platen. Remove tray with heels from toaster.
- 10. Lift upper bun board and slide spatula in under the crowns. Remove spatula with crowns from toaster.
- 11. Slide spatula into center compartment. Remove spatula with clubs from toaster.

## **CLEANING**

- 1. Unplug toaster and allow it to cool down.
- 2. Shake a small amount of cleanser on platen.
- 3. Dampen toaster platen cleaning pad and wipe off top and bottom of platen.

**IMPORTANT:** Using a cleaning pad other than the one provided may be too abrasive and take off the nickel plating, causing buns to stick. Replacement pads should be purchased from your local Prince Castle Service Center. Order part #167-2.



CAUTION: Do not pour water on the platen. This may cause an electrical hazard and damage switches, linkage, etc., voiding the warranty.

- 4. Starting from the center, proceed to clean platen by wiping in a front to back motion with grain of platen.
- 5. Using a moist cloth, wipe off platen to remove all cleaning materials.
- 6. After cleaning season toaster platen with a light coat of shortening.

### **MAINTENANCE**

Under normal conditions with proper use and cleaning, very little nonscheduled maintenance will be required for this toaster. However, this section provides procedures to check or replace various parts within the toaster. Before replacement of any parts refer to the troubleshooting section for assistance in determining the cause of malfunction.

## **GENERAL INSTRUCTIONS**

When disconnecting electrical wires, mark them in some way that will indicate which terminal they came from. Do not disconnect too many electrical connections at one time. Refer to the individual wiring diagram for particular controls that need repair.

There are 3 basic methods of affixing wires to their terminals.

- 1. Closed eye
- 2. Spade
- 3. Knife and blade

**IMPORTANT:** Do not wrap a bare wire under a terminal head screw.

Before attempting to repair a toaster:

- 1. Disconnect electrical supply.
- 2. Permit the unit to cool completely.

**IMPORTANT:** Make good use of the parts pictures in this chapter for further aid in understanding the physical make-up of your toaster and the reassembling of its components.

## **ELECTRICAL REPAIRS**



CAUTION: Before any electrical repairs, place power switch in OFF position and unplug toaster.

When replacing any electrical controls mounted in control boxes, disassemble the following.

- 1. Remove (2) screws from upper or lower cover.
- 2. Remove cover(s).
- 3. Remove (5) screws from upper or lower faceplate.

#### **REPLACE PLATENS**



**CAUTION:** This procedure should be down by a qualified service person.

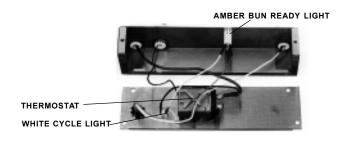
## REPLACE THERMOSTAT (See figure 3.)

**Tools Required** 

- Flatblade screwdriver
- 1. Remove knob.
- 2. Remove (2) screws that hold thermostat to rear cover.
- 3. Remove (2) wires from thermostat terminals.

- 4. Remove thermostat bulb retainer from electrical box.
- 5. Remove thermostat and sensing bulb.

figure 3



**IMPORTANT:** Replace with new thermostat by reversing procedure. Make sure to coat new thermostat bulb with thermo-coat provided.

#### **HOW TO CALIBRATE TEMPERATURES**

**Tools Required** 

- Flatblade screwdriver
- Digital thermometer with surface probe
- Stopwatch
- 1. Plug toaster in and turn the power switch to ON. Allow 45 minutes for the platen temperature to stabilize.
- 2. Place the surface probe of the digital thermometer in the center of the top platen.

**IMPORTANT:** The temperature should be at 216° C (+/- 3° C) when the temperature light goes off.

3. Repeat step 2 by placing the surface probe in the lower platen.



CAUTION: Toaster must be hot to check temperature calibration. Special care must be taken to prevent being burned.

If the temperature is not within the range:

4. Turn the outer temperature shaft in the rear of the toaster. (Turn shaft clockwise to increase and counterclockwise to decrease platen temperature.)

**IMPORTANT:** A 1/4 turn will change the temperature approximately 47° C.

- 5. Allow 20 minutes for the platen temperature to stabilize before readjusting.
- 6. Adjust the thermostat dial plate so the correct temperature is in line with the pointer on the thermostat knob.

#### **HOW TO REPLACE LIGHTS**

- 1. Locate inoperable light.
- 2. Disconnect (2) wires from the light.
- 3. Remove the light by pressing the bezel clips in and pulling the light away from the control panel.
- 4. Reverse procedure to install new light.

#### REPLACE RELAY (See figure 4.)

**Tools Required** 

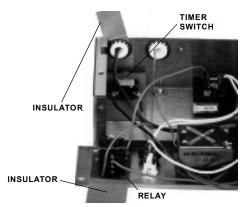
Flatblade screwdriver



CAUTION: This procedure should be performed by a qualified service person.

- 1. Remove screw holding relay to back cover.
- 2. Remove red wire from timer.
- 3. Remove red wire from buzzer.

figure 4



- 4. Remove red wire from time switch.
- 5. Replace relay by reverse procedure.



CAUTION: Be sure insulator is between the relay and rear cover.

#### **REPLACE TIMER SWITCH**

**Tools Required** 

- Adjustable wrench
- Remove 2 wires from timer switch.
- Unscrew retaining nut on front of electrical box.
- 3. Remove switch.
- 4. Reverse procedure to install new timer switch.



CAUTION: Be sure insulator is between switch and chassis.

#### LOWER ELECTRICAL BOX

#### **ADJUST TIMER SWITCH**

**Tools Required** 

- Adjustable wrench
- 1. Position retaining ring on new switch 1/4" (6 mm) from end of bushing.

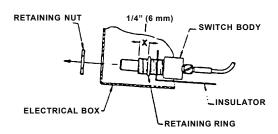
**IMPORTANT:** Insulator should be placed between switch body and retaining ring. See figure 5.

- 2. Set stop blocks at lowest position.
- 3. Slowly lower platen and watch movement of new switch against actuator bracket.

**IMPORTANT:** When platen is all the way down, there should be no more than 1/32" (1 mm) clearance between threaded switch bushing and actuator bracket.

**IMPORTANT:** The threaded switch bushing must not press against the actuator bracket.

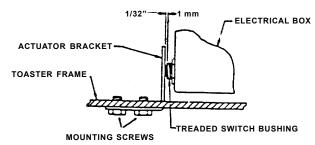
figure 5



To adjust actuator

bracket, loosen mounting screws and move bracket until 1/32" (1 mm) clearance is attained as shown in drawing below. Retighten actuator bracket mounting screws when bracket is positioned. See figure 6.

figure 6



#### REPLACE TIMER ASSEMBLY

**Tools Required** 

- Adjustable wrench
- Flatblade screwdriver

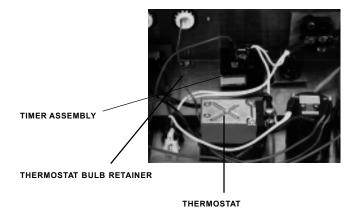


CAUTION: This procedure should be performed by a qualified service person.

- 1. Remove (2) wires from timer assembly.
- Remove screw and nut holding timer assembly to lower electrical box.

3. Replace with new timer assembly by reversing procedure. See figure 7.

figure 7



# LOWER ELECTRICAL BOX REPLACE POWER SWITCH

**Tools Required** 

- · Adjustable wrench
- 1. Remove the nut that holds switch and switch plate to cover.
- 2. Remove wires from switch.
- 3. Remove switch.
- 4. Replace by reversing steps 1-3 with new switch.

#### **REPLACE POWER CORD**

Tools Required

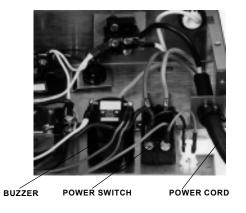
• Flatblade screwdriver



CAUTION: This procedure should be done by a qualified service person.

1. The power switch will have to be removed to get at the (2) heavy power cord wires connected to the bottom terminals. See figure 8.

figure 8



- 2. Disconnect green/yellow ground wire from the power switch.
- Remove power cord from lower chassis by removing strain relief.
- 4. Reverse procedure to reinstall power cord.

#### **REPLACE BUZZER**



CAUTION: This procedure should be done by a qualified service person.

- 1. Remove buzzer by holding ring and unscrewing.
- 2. Remove (2) wires from buzzer terminals.
- 3. Replace by reversing procedure.

## **CLOSING**



**CAUTION:** Before unplugging, make sure toaster is turned OFF.

- 1. Place the power switch in the OFF position.
- 2. Unplug toaster.
- 3. Allow toaster to cool.
- Follow cleaning instruction on MRC 16.



CAUTION: This applieance is not watertight. Do not immerse in water or clean with a water jet/jet spray.

### ORDERING/SERVICE INFORMATION

WHERE AND HOW TO ORDER
REPLACEMENT PARTS

To order replacement parts, look on the back of your Prince Castle Price List for the name and phone number of your local Prince Castle Service Center. You may also call Prince Castle at 1-800-323-2930 (or fax us at 630-462-1460) for the name of your local Service Center.

2. PARTS RETURNS

To return parts to your Service Center for credit, you must obtain authorization from your Service Center.

**iMPORTANT:** All warranty situations should be handled by your center.

#### 3. PRICES:

- A. All prices are F.O.B. Prince Castle Service Center or F.O.B. factory, Carol Stream, Illinois.
- B. All prices are subject to change without notice. These prices are exclusive of all sales taxes or any special taxes which may be levied by federal, state, or city governments.

### **OUTSIDE THE U.S.**

Contact your kitchen equipment supplier or designated repair facility for parts and service.

## TROUBLESHOOTING GUIDE



**CAUTION:** Inspection,testing and repair of electrical equipment should be performed only by qualified service personnel.



CAUTION: The unit should be unplugged when servicing, except when electrical tests are required. Use care when running tests.

		are required. Goo care micro raming tooler		
PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION		
Platen sways.	Platen attachment bolts loose.	Tighten bolts.		
Buzzer works, but no amber bun ready light.  Light burned out.		Replace bun ready light. See Maintenance.		
No buzzer or amber bun ready light.  Defective timer switch.  Defective timer assembly.  Timer switch out of adjustment.  Defective relay.		Replace timer switch. See Maintenance. Replace timer assembly. See Maintenance. Adjust timer switch stroke. See Maintenance. Replace relay. See Maintenance.		
Amber bun ready light goes ON but buzzer does not work.	Buzzer burned out.	Replace relay. See Maintenance.		
Buns being over crushed.  Stop blocks not adjusted properly.  Warped bun trays.  Buns cut improperly.  Bun platform warped.		Adjust stop blocks. Straighten bun trays. Contact bakery. Straighten bun platform.		
Platen does not heat.	No power. Power switch defective. Loose wiring. Defective thermostat. Platen burned out or shorted.	Check power source. Replace power switch. See maintenance. Correct as neccessary. See MRC 17. Replace thermostat. See maintenance. Replace platen. Call Service Agency.		
Buns sticking to platen.	Excessive heat.  Build-up of caramelized sugar on platen.	Recalibrate thermostat. Clean platen.		
One platen does not heat and one platen does.	No power.  Power switch defective.  Loose wireing.  Defective thermostat.  Platen burned out or shorted.	Check circuit breaker since one half of 220 volt service may be out.  Replace power switch. See maintenance.  Correct as necessary.  Replace thermostat. See maintenance.  Replace platen. Call Service Agency.		
Timer Assembly sounds at	Bad connection in toaster plug.  Timer Assembly set incorrectly.	Tighten connection in plug.  Check position of time select switch. Set it at 55 seconds.		
seconds.		Recheck time.		

## EXPLODED VIEW

## PARTS IDENTIFICATION/FUNCTION

PART		_		
NO.	DESCRIPTION	QTY.	FUNCTION	
416-576	Upper Faceplate	1	Part of electrical box operating panel for upper plater	
411-353	Brkt. Cord Grip-Unthreaded	2	Secures flex wire to upper and lower enclosure.	
89-093	Screw	4	Secures flex wire to upper and lower enclosure.	
222-122A	Thermostat	2	Temperature control for upper and lower platen.	
222-102S	Knob	2	Used to adjust thermostats.	
222-91	Dial Plate	2	Plate with temperature readings used to calibrate temperature.	
71-134-2	White Cycle Light	2	Goes ON when electrical power is being supplied to heater.	
416-574	Upper Chassis	1	Part of upper electrical box enclosure needed for operating controls.	
213-364	Platen Tube	3	Insulators that protect heating element connectors and thermostat capilary tube.	
89-135	Retainer	3	Holds thermo-break tumbes in place.	
416-157	Platen Terminal Insulator	4	Protects the heating element connectors from shorting against metal.	
416-135	Thermostat Bulb Retainer	2	Holds thermostat capillary bulb in platen.	
71-134-1	Amber Bun Ready Light	1	Lights when toasting cycle has completed	
416-121	Upper Cover	1	Allows access to upper electrical box. (removabable)	
416-689	Lower Faceplate	1	Part of lower electrical box that holds power switch, sonalert, thermostat, heating light, power light and relay assy.	
78-166S	Power Switch	1	Provides electrical power to toaster when switch is in the ON position.	
72-196S 88-566	Power Cord w/Plug Plug Only (Europe Only)	1	Provides electrical power to the toaster from the store's power outlet.	
66-045	Strain Relief	1	Secures power cord to toaster face plate.	
416-128	Lower Electrical Box Cover	1	Allows access to lower electrical box. (removable)	
222-140	Muffler Cap	1	Reduces sound level of the audioalarm.	
88-150	Buzzer	1	Indicates when buns are done. (International)	
71-134-3	Green Power Light	1	Indicates power to the toaster.	
416-653	Rear Upper Stud	2	Holds upper platen to rear levers.	
416-167S	Relay Assembly	1	Activates buzzer.	
416-150	Relay Insulator	1	Protects the relay and relay wires from touching metal.	
	NO.  416-576 411-353 89-093 222-122A 222-102S 222-91  71-134-2 416-574 213-364 89-135 416-157 416-135 71-134-1 416-689 78-166S 72-196S 88-566  66-045 416-128 222-140 88-150 71-134-3 416-653 416-167S	NO.         DESCRIPTION           416-576         Upper Faceplate           411-353         Brkt. Cord Grip-Unthreaded           89-093         Screw           222-122A         Thermostat           222-102S         Knob           222-91         Dial Plate           71-134-2         White Cycle Light           416-574         Upper Chassis           213-364         Platen Tube           89-135         Retainer           416-157         Platen Terminal Insulator           416-135         Thermostat Bulb Retainer           71-134-1         Amber Bun Ready Light           416-121         Upper Cover           416-689         Lower Faceplate           78-166S         Power Switch           72-196S         Power Cord w/Plug Plug Only (Europe Only)           66-045         Strain Relief           416-128         Lower Electrical Box Cover           222-140         Muffler Cap           88-150         Buzzer           71-134-3         Green Power Light           416-653         Rear Upper Stud           416-167S         Relay Assembly	NO.         DESCRIPTION         QTY.           416-576         Upper Faceplate         1           411-353         Brkt. Cord Grip-Unthreaded         2           89-093         Screw         4           222-1028         Thermostat         2           222-1029         Knob         2           222-91         Dial Plate         2           71-134-2         White Cycle Light         2           416-574         Upper Chassis         1           213-364         Platen Tube         3           89-135         Retainer         3           416-157         Platen Terminal Insulator         4           416-157         Platen Terminal Insulator         4           416-135         Thermostat Bulb Retainer         2           71-134-1         Amber Bun Ready Light         1           416-689         Lower Faceplate         1           78-166S         Power Switch         1           72-196S         Power Switch         1           72-196S         Power Cord w/Plug Plug Only (Europe Only)         1           66-045         Strain Relief         1           416-128         Lower Electrical Box Cover         1 </td	

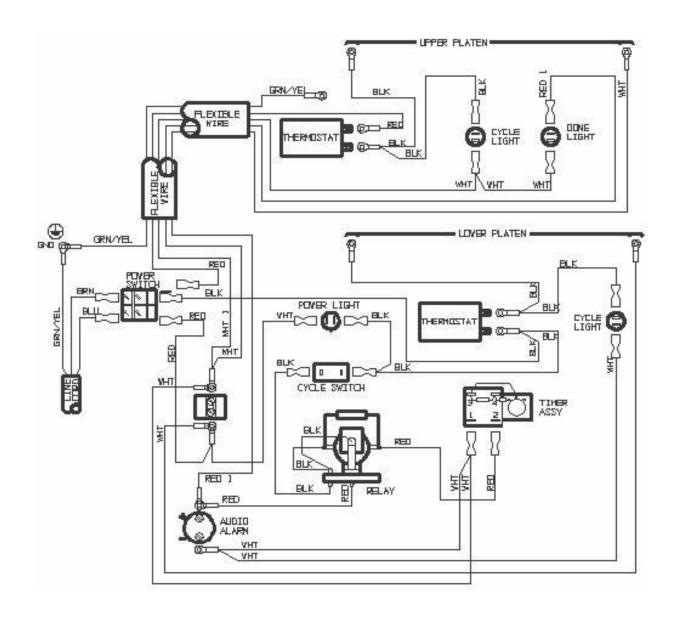
ITEM	PART NO.	DESCRIPTION	QTY.	FUNCTION
28	416-692S	Flexible Wire Assembly	1	Provides electrical power to upper electrical box.
29	416-691	Lower Chassis	1	Part of lower electrical box which holds the power cord, barrier strip and timer assembly.
30	78-146S	Timer Switch Kit	1	Starts the timer for the toasting cycle.
31	416-43	Timer Switch Insulator	1	Protects the switch from touching metal.
32	416-259S	Timer Assembly 35/55 seconds.	1	Controls toasting itme (adjustable for either 35 or 55 seconds.
33	77-039	Barrier Strip	1	One connector barrier strip where electrical ground wires interconnect.
34	416-136	Insulator, Barrier Strip	1	Protects barrier strip and wires from touching metal.
35 36	416-802 416-801	Lower Left Bun Fence Lower Right Bun Fence	1 1	Attached to the platen to prevent buns from falling off the sides.
37	416-482	Bun Board	1	Used as a weight to compress the crowns to the proper toasting height.
38	212-285	Support Stud	3	Holds upper and lower platens to front and rear levers.
39	416-629S	Upper Platen Kit	1	Electrically heated toasting surface.
40	416-847	Upper rear bun fence	1	Attaches to platen to prevent buns from falling back.
41	416-829	L.H. Upper Bun Fence	1	Attached to platen to prevent buns from falling off sides.
42	416-830	R.H. Upper Bun Fence	1	Attached to platen to prevent buns from falling off sides.
43	416-625S	Lower Platen	1	Electriclly heated toasting surface.
44	416-762	Lower Rear Bun Fence	1	Attaches to platen. Prevents buns from falling off the rear.
45	416-661	Upper Bun Catcher	1	Prevents buns from falling under toaster.
46	212-283	Spacer	6	Maintains alignment of levers with platen.
47	416-652	Rear Upper Spacer	2	Maintains alignment of levers with platen.
48	416-856S	Rear Lower Lever Assy.	2	Holds the rear platen in the toaster and allows for opening and closing of the toaster.
50	416-680S	Base w/feet	1	Support for the toaster.
52	416-654	Rear Lower Stud	2	Holds lower platen to rear levers.
53	213-304	Safety Latch Stud	1	Safety latch engaged attachment location.
54	416-413	Front Lever Assy.	2	Holds the platens in the toaster and allows for opening and closing of the toaster.
55	416-858S	Rear Upper Lever Assy.	2	Holds the rear of platens in toaster and allows for opening and closing of toaster.
56	416-581	Side Panel Assembly	2	Mounts to the frame to protect hands from getting inbetween the platens.
57	416-651	Shim	1	Maintains alignment of latch.
58	416-488	Safety Latch	1	Holds platen in the open (up) position.

ITEM	PART NO.	DESCRIPTION	QTY.	FUNCTION
59	81-013	Spring	2	Helper springs to reduce lifting force.
60	416-29	Stop Block Rod	1	Holds the stop blocks to the toaster frame.
61	416-489	R.H. Stop Block	1	Adjusts the height of the platens. 6 stop positions.
62	81-009	Stop Block Compression Spring	1	Holds stop blocks in position.
63	79-105	Spacer	2	Locates position of stop blocks to front levers and holds the compression spring in position.
64	213-414	Actuator Bracket	1	Activates the toasting itmer when platens are closed.
65	68-001	Roll Pin	1	Locks compression spring in place.
66	212-284	Bearing Stud	4	Holds the front and rear links to the toaster frame.
67	89-959S	Rubber Foot	4	Keeps toaster from moving while operating.
69	62-024	Bearing	2	Aligns bearing studs in handle lever assemblies.
70	416-648	Safety Latch Pin	1	Attachment point for safety latch.
71	213-302	Safety Latch Label	1	Instructs operator to engage the safety latch when cleaning the toaster.
72	416-490	L.H. Stop Block	1	Adjusts heights of platen's 6 stop positions <sup>35</sup> / <sub>64</sub> " (14 mm) to 1 <sup>11</sup> / <sub>64</sub> " (29 mm).
73	416-683	Detent Pin	1	Holds the stop block at the chosen position.
74	416-657	Safety Latch Stop Bracket	1	Attaches bearing studs in handle and lever assemblies.
75	62-021	Bearing	2	Alligns bearing studs in handle and lever assemblies.
76	62-005	Bearing	10	Alligns bearing studs in handle and lever assemblies.
77	66-037	Bushing, Strain Relief (200V & 220V)	1	Secures power cord to toaster frame.

## HARDWARE USED FOR MOUNTING PARTS

ITEM	PART NO.	DESCRIPTION	QTY.
Α	76-300	Screw, Pan Head 8-32 X 1/4" (6 mm)	4
В	76-300 79-031	Screw, Pan Head 8-32 X 1/4" (6 mm) Lock Washer	2 2
С	76-051 79-033	Screw, Binder Head 6-32 X 3/8" (10 mm) Washer #6	1 2
D	76-040	Screw, Binder Head 10-32 X 3/8" (10 mm)	25
Е	76-079	Screw, Binder Head 10-32 X 5/8" (15 mm)	2
F	76-043 79-031 73-021	Screw, Binder Head 8-32 X 1/4" (6 mm) Lockwasher #8 Nut, Hex 8032	1 1 1
Н	76-179	Screw, Binder Head 10-32 X 3/8" (10 mm) NSF-Dry Lube	16
К	76-327 73-013	Screw, Pan Head, 8-32 X 1-1/4" (32 mm) Nut, Hex Self-Locking 4-40	1 1
L	73-039	Nut, Hex 3/8-24	1
М	76-343	Set Screw, 10-32 X 3/4" (18 mm)	2
N	73-016	Nut, Hex 3/8-24	4
Р	76-382	Screw, Hex Head 1/4 X 9/16" (14 mm)	4
R	76-619	Screw, Hex Head 1/4-20 X 3/8" (10 mm)	2
S	76-095	Screw, Binder Head 6-32 X 1/4" (6 mm)	4
Т	88-416	Cable Tie	1
V	76-619 79-028 79-032	Screw, Hex Head 1/4-20 X 3/8" (10 mm) Lockwasher - 1/4" (6 mm) Washer, Flat 1/4" (6 mm)	2 2 2
W	79-144	Washer, O.D. 1.093	1

## WIRING INFORMATION



## IMPORTANT ELECTRICAL INFORMATION

Hot

This unit's power cord has International colored wires, which are different from Domestic.

Blue = Neutral
Brown = Hot
Green/Yellow = Ground

Black