

OWNER'S MANUAL

MODEL HST13 - VERTICAL TOASTER



Supplier Name: **MARSHALL AIR SYSTEMS, INC.**
 Address: 419 Peachtree Drive South
 Charlotte, NC 28217

Serial #: _____

Date Received: _____
 Date Installed: _____

Telephone #: 704-525-6230
 Toll Free #: 800-722-3474 Customer Service
 Fax #: 704-525-6229
 Service Referral #: 800-722-3474

Local Service Name: _____
 Local Service #: _____
 Conveyor Speed: _____
 Setting: _____

MANUFACTURER'S INTRODUCTION

The Marshall High Speed Vertical Toaster produces a grilled effect on the cut side of sandwich buns. The buns are inserted at the top of the unit and are pressed against a heated platen surface, which is covered by a replaceable toaster platen sheet. The spacing between the heated grill and the conveyor is adjustable to accommodate different thicknesses of buns. The buns are discharged onto a product slide at the bottom of the unit. The system is high speed and also variable in speed. Additionally, the heat controls are preset at factory, which eliminates unauthorized tampering with heat settings. The flexibility of this toaster is unmatched allowing operators to produce the hottest buns in the shortest time.

GENERAL SPECIFICATIONS

Height: 23.250"
 Width: 19.875"
 Depth: 15.250"

Electrical: 208V Single Phase 18.5 Amps
 240V Single Phase 18.5 Amps

Power Cord: 6 ft. 3 wire including ground,
 with NEMA L6-20P Plug
 (Plug furnished by others on international units.)

Weight: 130 lbs.



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WIRING SCHEMATIC (208V, 50/60HZ, 1PH)	#135169
WIRING SCHEMATIC (240V, 50/60HZ, 1PH)	#135817



INSTALLATION

PRE-INSTALLATION

1. The toaster is packaged to minimize the risk of shipping damage. Immediately upon receipt, make certain to inspect the unit for damage. **FILE ALL CLAIMS WITH THE FREIGHT CARRIER.**
2. Before installation and operation of the toaster, it is necessary to remove two (2) shipping screws from the unit. These screws are located inside the left side panel (switch side). After uncrating unit, remove the side panel and
3. This toaster is shipped completely wired and ready to plug into a grounded NEMA L6-20R amp receptacle. (208 Volt Single Phase, 3 wire including the ground circuit). Check receptacle for proper voltage and phase. Units

FINAL INSTALLATION

1. Place toaster on level metal surface. The unit should be caulked to the countertop as required by local health department codes.
2. Check that the two lift off side covers are in place on the toaster **AND THE LEFT COVER IS SECURED WITH A SCREW AT THE BOTTOM.**
3. Check that the toaster platen sheet is installed over the contact platen. The toaster platen sheet is installed from the top of the unit by lightly creasing it at the center, and directly hanging it on the center platen.
4. Install the bun guide/spacer on the toaster. (Figure 4)
5. Connect the toaster to the power supply.
6. Turn on the conveyor switch on the toaster and check for free movement of the two conveyor belts.
7. Turn on the heat switch. Allow 15 minutes for the toaster to warm up before toasting buns.
8. After warm up, drop buns into the toaster at the top of the unit. For proper operation, insert heels on the side of the toaster marked "Heel", and crown on the opposite side. **THE CUT SIDES OF THE HEEL AND CROWN MUST**
9. The toasted heel and crown will drop down onto the product slide together. Check the appearance of the toasted buns.
10. Adjust the gap settings using the two levers inside the right panel. (See Figure 7). The levers are labeled "Heel" gap and "Crown" gap. To adjust the gap, loosen the black adjustment knob (Figure 5), several turns to disengage

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11. The speed control is located behind the left side cover. DISCONNECT (UNPLUG) THE POWER BEFORE OPENING THE SIDE COVER. The speed control can be adjusted to control the conveyor belt speed to lighten or darken the toasted product. The toaster is shipped with the speed control set on 8, which is approximately a ten second toast.
12. Test at least 3 buns before putting the toaster into service. Uniform surface toasting and bun temperature are achieved when the gap described in step 10 is set correctly.

OPERATION

1. The toaster is operated by turning on the conveyor switch (see Figure 4) and then the heat switch.
2. Allow the toaster to warm up for 15 minutes before toasting buns.
3. For proper operation, insert heels on the side of the toaster marked "HEEL" and crowns on the opposite side.
4. Turn both switches off at the end of the day to turn off the toaster.
5. Toaster Platen Sheet General Information:
 - A. The toaster is not designed for use with buttered buns.
 - B. Life of Toaster Platen Sheet - depends on usage and cleaning.
 - C. Sheet turning white - this is black pigment fading out of the sheet and does not mandate sheet replacement.
 - D. What triggers sheet replacement? When buns no longer feed through the machine but instead are damaged or torn, the toaster platen sheet should be replaced. Replace ONLY with Marshall toaster platen sheet.
 - E. How to get maximum life? Rotate the sheet daily so the "HEEL" side is opposite from the day before.

CAUTION: DO NOT REMOVE THE CONTROL PANEL COVER WITHOUT FIRST TURNING OFF THE TOASTER AND UNPLUGGING THE TOASTER.

PREVENTIVE MAINTENANCE

DAILY:

1. Carefully remove the toaster platen sheet (Figure 4), lay it on a flat surface, and wipe with a soft cloth or towel and clean with soap and water. Use ONLY enough water to make the cloth damp. **DO NOT USE ABRASIVES ON THE TOASTER PLATEN SHEET.**
2. Rotate toaster platen sheet so the "heel" side is on "crown" side, opposite than the day before.
3. Re-install all parts after drying.

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WEEKLY:

1. Turn toaster off and unplug power cord from wall receptacle.
2. Perform daily maintenance.
3. Remove the front and back covers (Figure 3), by lifting these covers off the toaster. Clean these covers with soap and water. Wipe the exposed metal parts with a damp soft cloth or towel.
4. Reconnect the power cord.
5. Clean belts according to the Belt Cleaning Procedure below. Do not scrub belts with abrasive material.
6. Install the front and rear covers.

BELT CLEANING PROCEDURE

NOTE: TOASTER BELTS MUST BE CLEANED WHILE TOASTER IS STILL AT OPERATING TEMPERATURE.

Supplies Needed: Kay Chemical #54238 Sizzle Plus Agent, No-Scratch Pad, #03574-018, Heat Resistant Gloves (A 1qt. bottle of agent and 1 No-Scratch Pad are shipped with the toaster to your restaurant. If you do not receive, contact your restaurant supplies dealer or Kay Chemical Customer Service, 800-529-5458.)

- A. Turn conveyor and heat switches off.
- B. Put heat resistant gloves on your hands. IT IS IMPORTANT TO WEAR HEAT RESISTANT GLOVES TO AVOID BURNING HANDS.
- C. Dispense Sizzle Plus agent onto a clean, damp No-Scratch Pad until the pad is nearly saturated.
Using the saturated pad, lightly rub the exposed surface of the belt in a widthwise, circular motion. The belt is not easy to wet so repeated rubbing may be needed to completely contact the soiled surface. **DO NOT POUR SIZZLE PLUS ONTO THE BELT SURFACE.**
- D. Rotate the belt by turning the conveyor switch on. Turn switch off when new section of belt is exposed.
- E. Repeat cleaning steps on new, exposed section of belt so that the entire surface of belt has agent applied.
- F. Finish scrubbing entire belt by repeating the process of:
A. Turning the toaster conveyors on and off. B. Scrubbing the exposed surfaces of both crown and heel belts.
- G. Thoroughly rinse the belt by wiping with a clean, damp towel. Frequently rinse the wiping towel to remove the accumulated soil and cleaner residue.

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MONTHLY:

1. Perform Daily and Weekly Maintenance.
2. Replace any worn out toaster platen sheets or conveyor belts with Marshall parts.

TROUBLE SHOOTING GUIDE

NOTE: SERVICE MUST BE PERFORMED BY A QUALIFIED SERVICE COMPANY. THE TERM "QUALIFIED SERVICE COMPANY" MEANS ANY INDIVIDUAL, FIRM, CORPORATION OR COMPANY WHICH IS EITHER ENGAGED IN AND IS RESPONSIBLE FOR THE INSTALLATION OR REPLACEMENT OF ELECTRICAL COMPONENTS, OR THE CONNECTION, INSTALLATION OR REPAIR OF ELECTRICAL APPLIANCES, WHO IS EXPERIENCED IN SUCH WORK, FAMILIAR WITH ALL PRECAUTIONS REQUIRED, AND HAS COMPLIED WITH ALL THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

WARNING: INSPECTION, TESTING, AND REPAIR OF ELECTRICAL EQUIPMENT SHOULD BE PERFORMED BY QUALIFIED SERVICE PERSONNEL. THE UNIT SHOULD BE UNPLUGGED WHEN SERVICING, EXCEPT WHEN ELECTRICAL TESTS ARE REQUIRED.

DANGER: USE EXTREME CARE DURING ELECTRICAL CIRCUIT TESTS. LIVE CIRCUITS WILL BE EXPOSED. WHERE TESTING INDICATES "WITH POWER OFF", BE SURE THAT THE CONVEYOR AND HEAT SWITCHES ARE OFF AND TOASTER IS UNPLUGGED.

PROBLEM:

1. No heat and conveyor belts do not move.

SOLUTION:

- A. Check that toaster is plugged in.
- B. Check that conveyor and heat switches are on.
- C. Check that power is available at the receptacle. Check toaster nameplate for voltage.

- D. **WITH UNIT UNPLUGGED**, check connections inside of plug. **WITH UNIT UNPLUGGED**, remove left side cover screw at bottom of cover, and remove cover. Check electrical connections for bumps, discoloration or arcing. Replace all connections or components that have damaged terminals. Replace all damaged wiring with same or a higher rated wire.

PROBLEM:

2. Conveyor belts move but no heat.

SOLUTION:

- A. Check that the heat switch is on.
- B. Turn off switches and unplug toaster. Remove left and right side covers. Remove ONE screw and loosen one screw from each side as shown in Figure 10. Lay the unit on the right side. The bottom of the control cabinet will now swivel open.

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- C. Check for loose connections at the temperature controllers and heating elements.
- D. Replace all connections or components that have damaged terminals. Replace all damaged wiring with same or a higher
- E. Check resistance of heating platens:

	Center Platen	Heel Platen	Crown Platen
Schematic - 208V 135169	20 OHMS	52 OHMS	52 OHMS
Schematic - 240V 135817	25 OHMS	52 OHMS	52 OHMS

PROBLEM:

3. Grill is hot, but conveyor belts do not move.

SOLUTION:

- A. Check that conveyor is on.
- B. Check conveyor speed control setting.
- C. Check for power to speed control circuit board.
- D. Check that belt is not slipping on roller. If so, check for tears and that the tension keeper lever is engaged in the slot shown in Figure 5.
- E. Check for loose chain, or sprockets, tighten set screw on flat of shaft if needed. Replace as needed.
- F. **TURN OFF SWITCHES, UNPLUG TOASTER**, and remove the right side cover. Check fuse. Replace fuse if necessary with same type AGC 1.5 Amp.
- G. Check for loose connections or wiring.
- H. Check that circuit board 115/230 switch is at the 230V position.
- I. Check for DC voltage of at least 25VDC at the motor.

PROBLEM:

4. Product is over or under toasted.

SOLUTION:

- A. Check toasting speed. Good toasting will occur in 10 seconds from bun load to drop.
- B. Check gap setting. There must be compression of the bun as it feeds into the toaster. Decreasing the gap (per Page 1, Number 10) will increase bun temperature and darken surface color.
- C. If buns are burned, the toaster platen sheet may be causing buns to get stuck in the toaster OR the toaster thermostat may have failed in a closed condition making the center platen too hot. Check that thermostat DOES cycle.

PROBLEM:

5. Buns do not feed properly into toaster.

SOLUTION:

- A. Check condition of Toaster Platen Sheet to be sure buns are not sticking to cover. Replace Toaster Platen Sheet if necessary.
- B. Belts need washing as described under Weekly Maintenance on Page 3.
- C. Toaster gap set too close. See Page 1, Number 10.

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BROILER & TOASTER LIMITED WARRANTY

MARSHALL AIR SYSTEMS, INC., ("Marshall") warrants to the first purchaser ("Purchaser") all new equipment of its manufacture to be free of defects in material and factory workmanship for a period of one year* from date of shipment provided that (i) the equipment is installed in the Continental United States, Canada or Hawaii and operated according to the Owner's Manual while located at the original address of installation, (ii) the warranty registration card has been completed and returned to the factory within fifteen (15) days after installation, and (iii) a post-installation start-up has been performed by an authorized service representative (portable equipment not applicable). Marshall's obligation under this warranty is limited to the repair or replacement at its option of any defective part. Under certain circumstances, Marshall will reimburse Purchaser for limited labor costs in replacing parts during a period of not more than ninety (90) days after date of shipment, provided that Labor Reimbursement instructions are followed and items i, ii, and iii above are completed. See special provision for portable equipment. It is understood that Marshall's obligation with respect to equipment located outside the Continental United States, Canada or Hawaii is limited to replacement parts only.

*The following broiler/toaster parts are consumable items and not covered under warranty:

- Burner Shields and Screens
- Burner Grids
- Burner Gaskets
- Electric Broiler Elements
- Flame Runners
- Teflon Sheets and Belts

Because Marshall does not and cannot control Purchaser's installation, use, and maintenance of equipment manufactured by Marshall, this warranty DOES NOT COVER:

1. Any equipment calibration.
2. Any component disassembled in the field.
3. Plugs and cords.
4. Damage due to improper or lack of cleaning, abuse, and/or service i.e. burner rotation, grease accumulation in electrical components or plugs (hosing or "watering down" equipment will cause electrical failures not covered by warranty).
5. Blown fuses or bulbs, motor brushes.
6. Any replacement parts used on the equipment which are not purchased from Marshall.
7. Accessory components not installed or manufactured by Marshall.

SHIPPING DAMAGE must be reported to the carrier and is not covered under this warranty. Marshall will not be liable for damage as a result of improper installation, misuse, abuse, alteration of original design, incorrect voltage, unauthorized service, breakage of fragile items, or any other damage caused by an act out of Marshall's control.

The effect of corrosion, fire, and normal wear on the equipment or component parts is not covered by this warranty. This warranty does not cover cooking performance, smoke capture or holding temperatures which is a function of food types, textures, temperatures, equipment line ups and other variables chosen by the Purchaser and over which Marshall has no control. This warranty does not apply to damage caused by accident or to damage caused by the negligence of Purchaser or the employees of Purchaser or to damage caused by lightning generated electrical current or any other Act of God whatsoever. This warranty does not apply to any equipment bearing a serial number which has been tampered with or altered. Marshall reserves the right to accept or reject any such claim in whole or in part. Marshall will not accept the return of any product without prior written approval from Marshall, and all such approved returns shall be made at Purchaser's sole expense.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT INFRINGEMENT, AND EXCEPT FOR THE EXPRESS WARRANTY CONTAINED HEREIN, THE EQUIPMENT IS SOLD "AS IS." REMEDIES UNDER THIS WARRANTY AND UNDER ANY WARRANTY THAT MAY SURVIVE THE DISCLAIMER OF WARRANTIES ARE LIMITED EXCLUSIVELY TO THOSE REMEDIES DESCRIBED ABOVE. NO OTHER REMEDY IS AVAILABLE UNDER THIS WARRANTY OR ANY OTHER WARRANTY. NEITHER THIS WARRANTY NOR ANY OTHER WARRANTY COVERS, AND MARSHALL WILL NOT BE RESPONSIBLE FOR, ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO THE COST OF DISASSEMBLY AND SHIPMENT OF THE EQUIPMENT, PRODUCTION OR PRODUCT LOSSES, INJURY TO OTHER PROPERTY, OR LOST PROFITS RESULTING FROM THE USE OF OR INABILITY TO USE THE PRODUCTS OR FROM THE PRODUCTS BEING INCORPORATED IN OR BECOMING A COMPONENT OF ANY OTHER PRODUCT OR GOODS, OR OTHER LOSSES. WHERE, DUE TO OPERATION OF LAW, CONSEQUENTIAL AND INCIDENTAL DAMAGES CANNOT BE EXCLUDED, THEY ARE EXPRESSLY LIMITED IN AMOUNT TO THE PURCHASE PRICE OF THE EQUIPMENT.

FOR INTERNATIONAL INSTALLATIONS -- PLEASE CONTACT YOUR LOCAL MARSHALL AIR SYSTEMS RECOGNIZED DISTRIBUTOR.



BROILER & TOASTER WARRANTY RETURN PROCEDURES

I. RETURN GOODS AUTHORIZATION FOR PARTS

For prompt warranty parts replacement and RGA processing, please call Marshall's Customer Service Department at 800-722-3474 or 704-525-6230 for assistance. In all cases, a Return Goods Authorization (RGA) number must be issued by Marshall Air Systems, Inc. Unauthorized returns will not be processed.

Option #1: Purchaser to return part(s) prepaid to Factory, Marshall to repair or replace at own expense if defective, and ship part(s) back to Purchaser prepaid.

Option #2: Marshall to furnish replacement part(s), freight prepaid, with or without requesting return of the defective part(s).

Option #3: Purchaser may obtain replacement part(s) from recognized service agency.

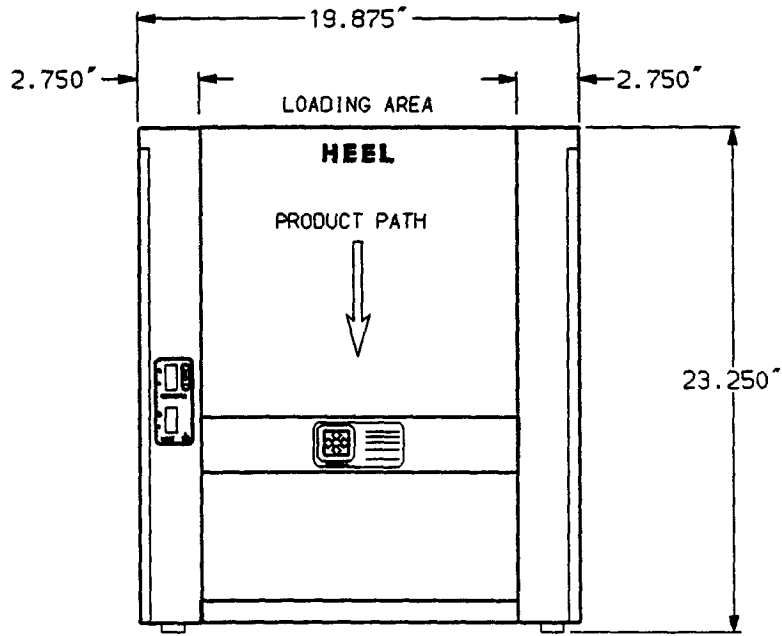
II. WARRANTY LABOR REIMBURSEMENT THROUGH RECOGNIZED SERVICE AGENCIES

Normally, labor will be covered for 90 days under the start up fee. In the unlikely event this does not apply, consult Marshall Air Systems, Inc. To be reimbursed for warranty labor costs, authorization must be given by Marshall Air Systems, Inc. Unauthorized work will not be reimbursed. Work must be performed by a Marshall Air Systems Recognized Service Agency within the service time allowance guidelines and must be submitted along with failed parts (if applicable) to Marshall Air Systems (freight prepaid) within 30 days of the work being performed. Travel is covered, but must not exceed 50 miles or 1 hour, whichever is greater. Call Marshall's Service Department at 800-722-3474 or 704-525-6230 with any questions. Service is to be performed by recognized service agencies during normal working hours. Owner to pay for all other charges including excessive travel or overtime charges. **DIAGNOSTIC LABOR CHARGES ARE INCLUDED IN SERVICE TIME ALLOWANCE GUIDELINES.** All portable equipment (under 90 pounds) shall be delivered by Purchaser, at Purchaser expense, to the nearest authorized service agency for in-shop repair or, at Purchaser's discretion, Purchaser will pay all travel time and mileage expenses for portable equipment.

III. NON-WARRANTY RETURNS:

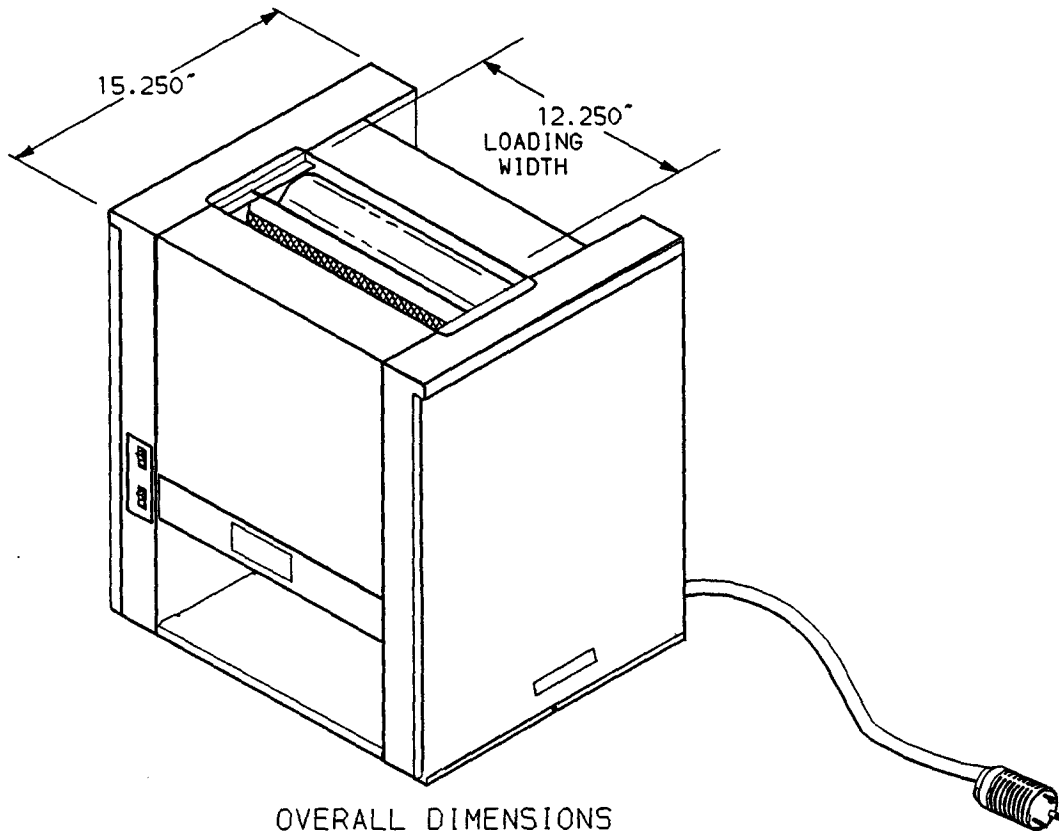
All items returned for customer cancellations are subject to a 20% restocking fee. In the event of an error by Marshall Air Systems, Inc., a Returned Goods Authorization will be issued for full credit. Custom fabricated parts are not returnable.

FOR INTERNATIONAL INSTALLATIONS -- PLEASE CONTACT YOUR LOCAL MARSHALL AIR SYSTEMS RECOGNIZED DISTRIBUTOR.



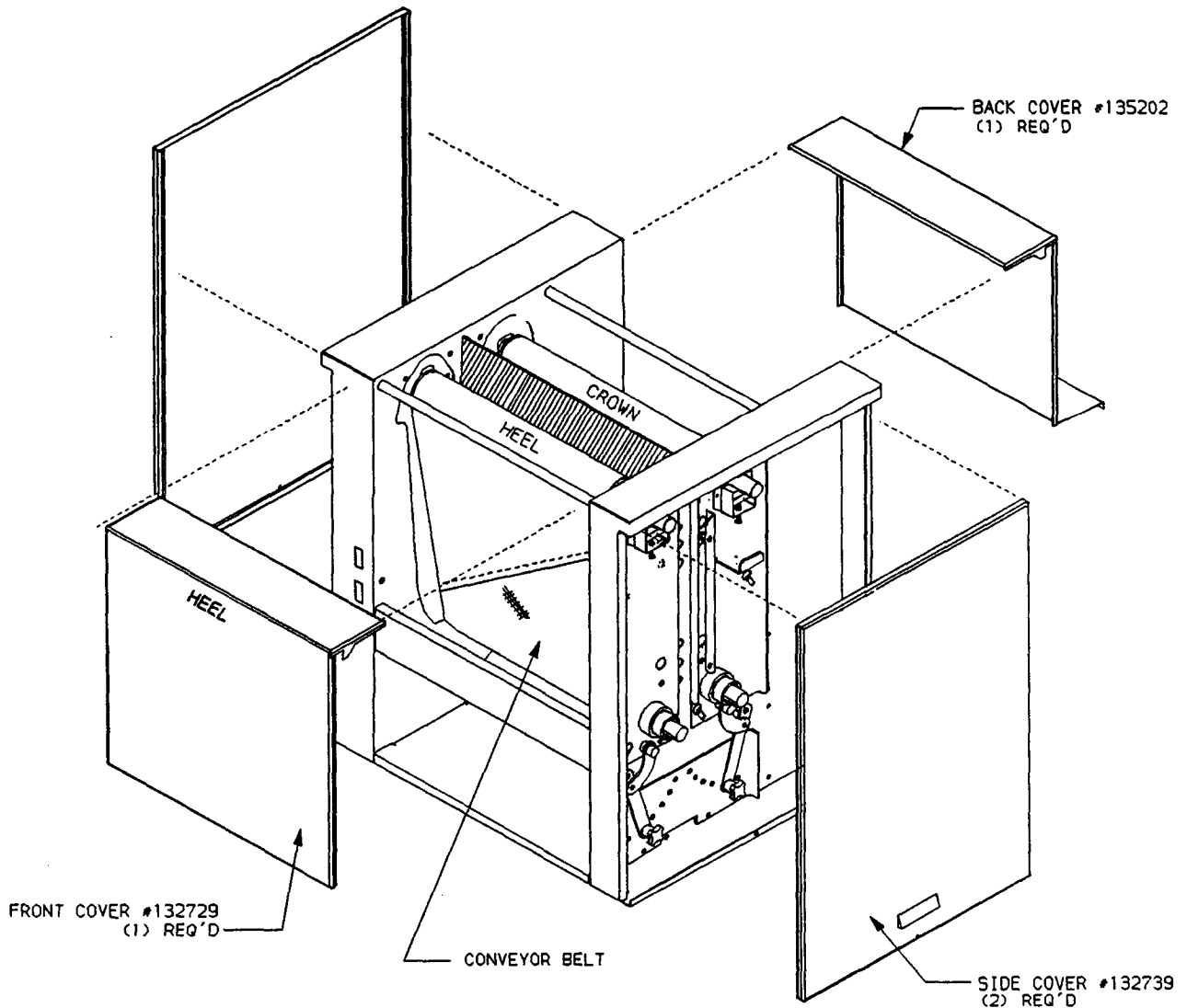
OVERALL DIMENSIONS

FIGURE 1



OVERALL DIMENSIONS

FIGURE 2



TOASTERS WITH SERIAL NUMBERS 0899181 AND ABOVE:
 #503767 CLEATED BELT (HEEL AND CROWN SIDES ARE SAME BELT)
NOTE: TO CHANGE STITCHED BELTS TO CLEATED BELTS ON UNITS
 0899180 AND BELOW. ORDER BELT REPLACEMENT KIT #137638

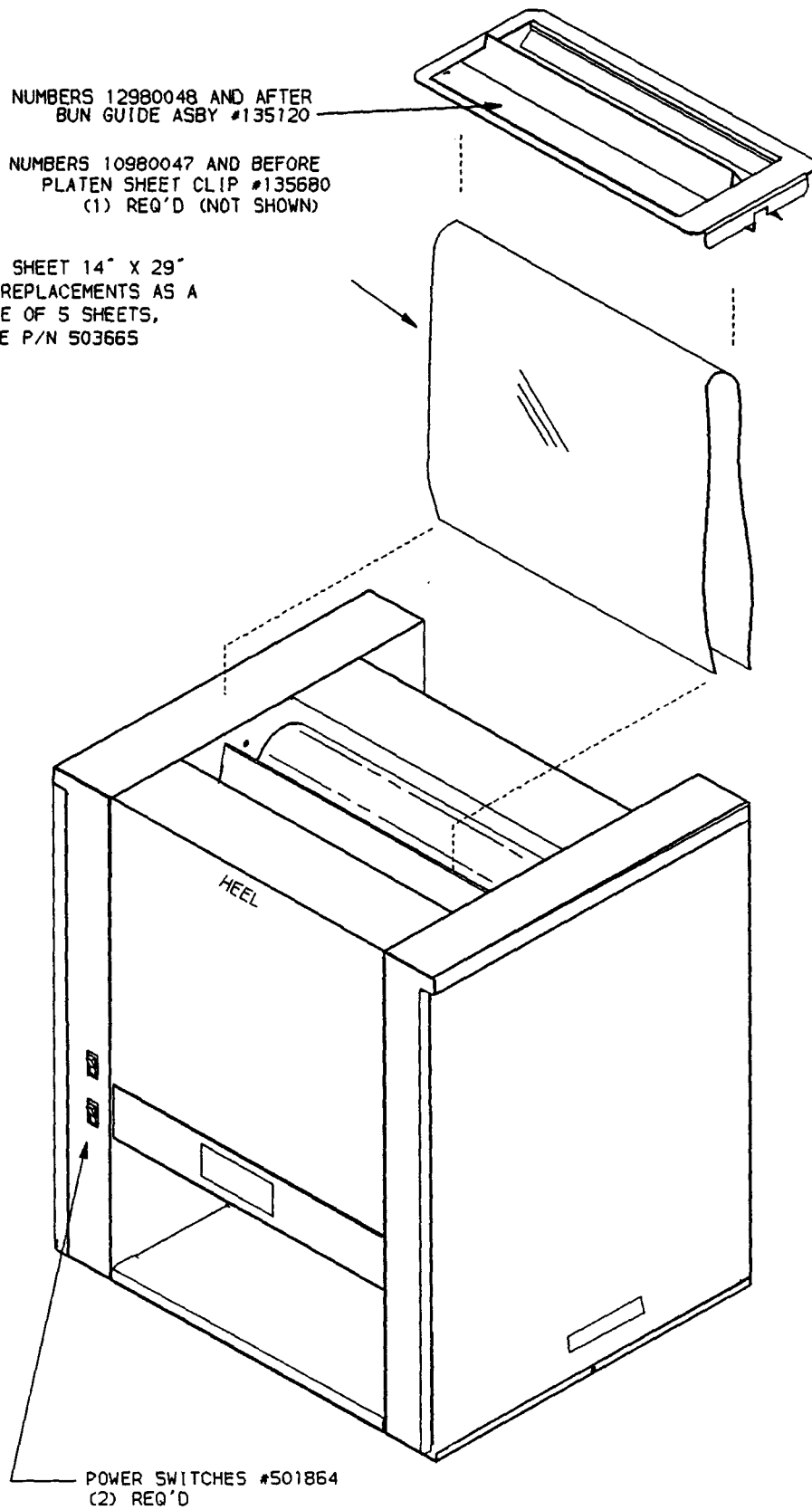
TOASTERS WITH SERIAL NUMBERS 0899180 AND BELOW,
 HEEL SIDE - #5034998LKH CROWN SIDE - #503499BLKC
 NOTE TO BELT INSTALLER: IF BOTH BELTS ARE BLACK,
 NOTE THE DIFFERENCE BETWEEN THE TWO. THE SEWN
 SEAM FOR THE HEEL BELT RUNS IN THE OPPOSITE
 DIRECTION THAN THE CROWN SIDE BELT. REFER TO
 FIGURE 9 FOR BELT/SEAM ORIENTATION.

HANG-ON PARTS
FIGURE 3

SERIAL NUMBERS 12980048 AND AFTER
BUN GUIDE ASBY #135120

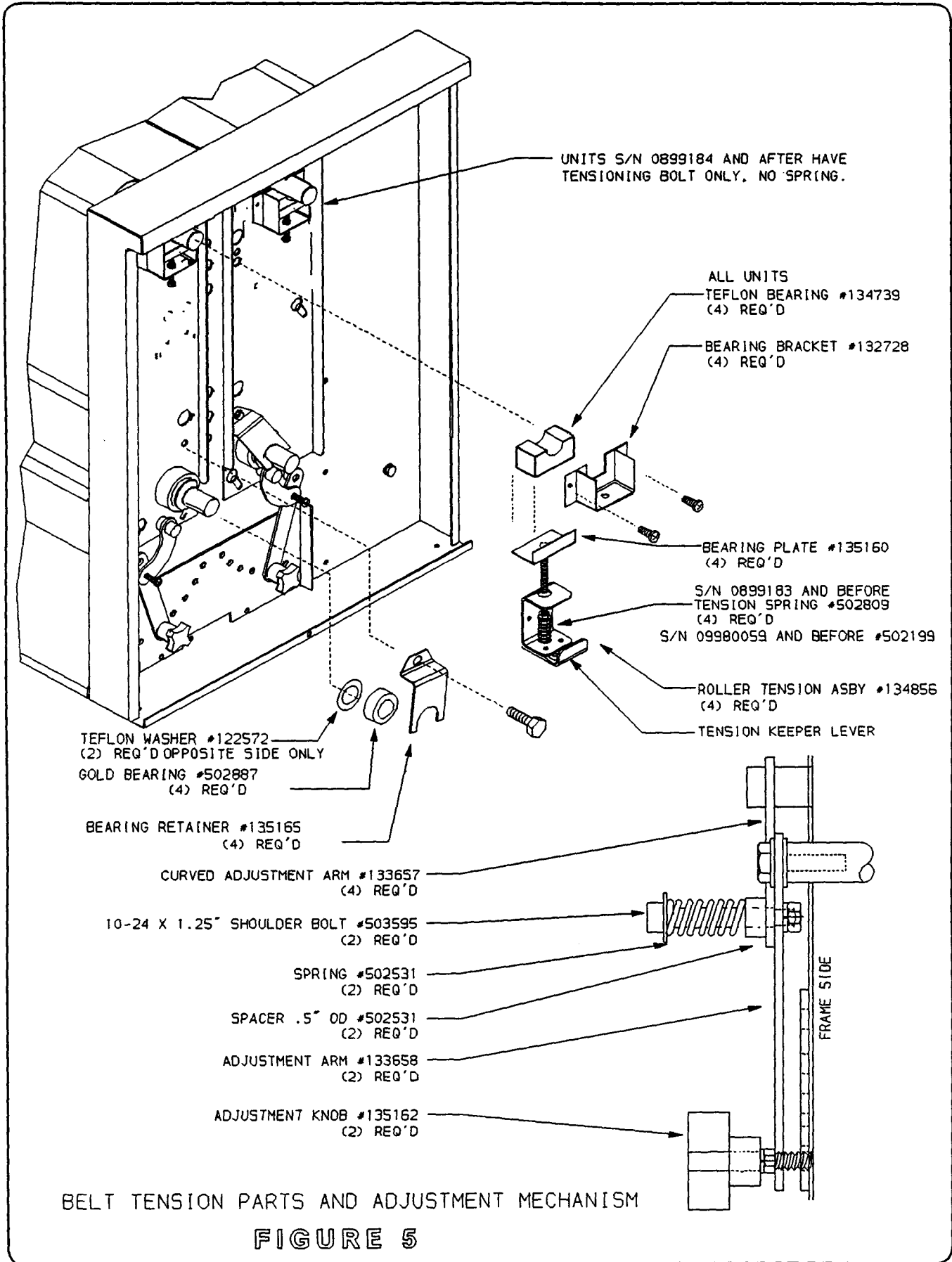
SERIAL NUMBERS 10980047 AND BEFORE
PLATEN SHEET CLIP #135680
(1) REQ'D (NOT SHOWN)

PLATEN SHEET 14" X 29"
ORDER REPLACEMENTS AS A
PACKAGE OF 5 SHEETS,
PACKAGE P/N 503665

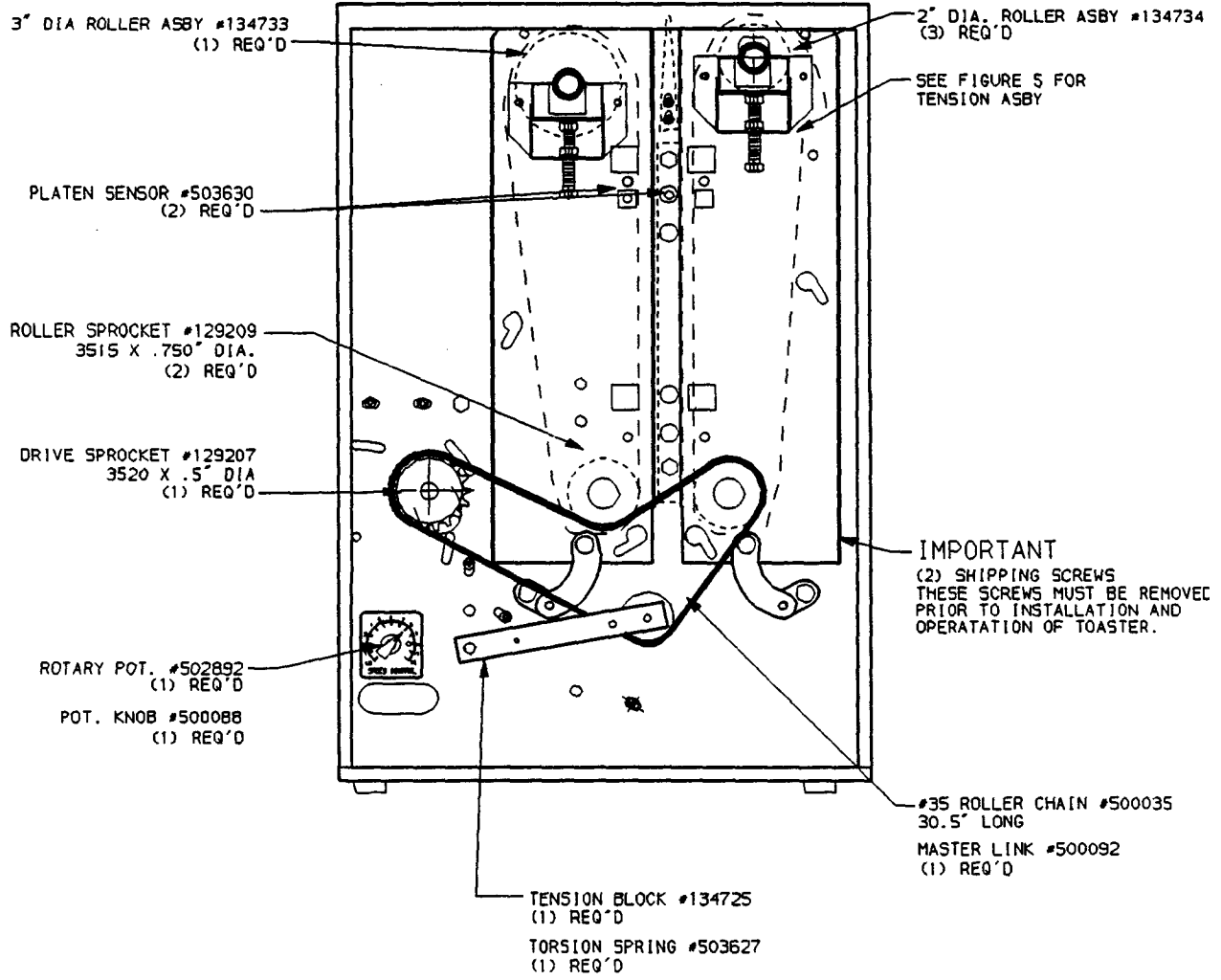


SWITCHES AND TOASTER PLATEN SHEET

FIGURE 4



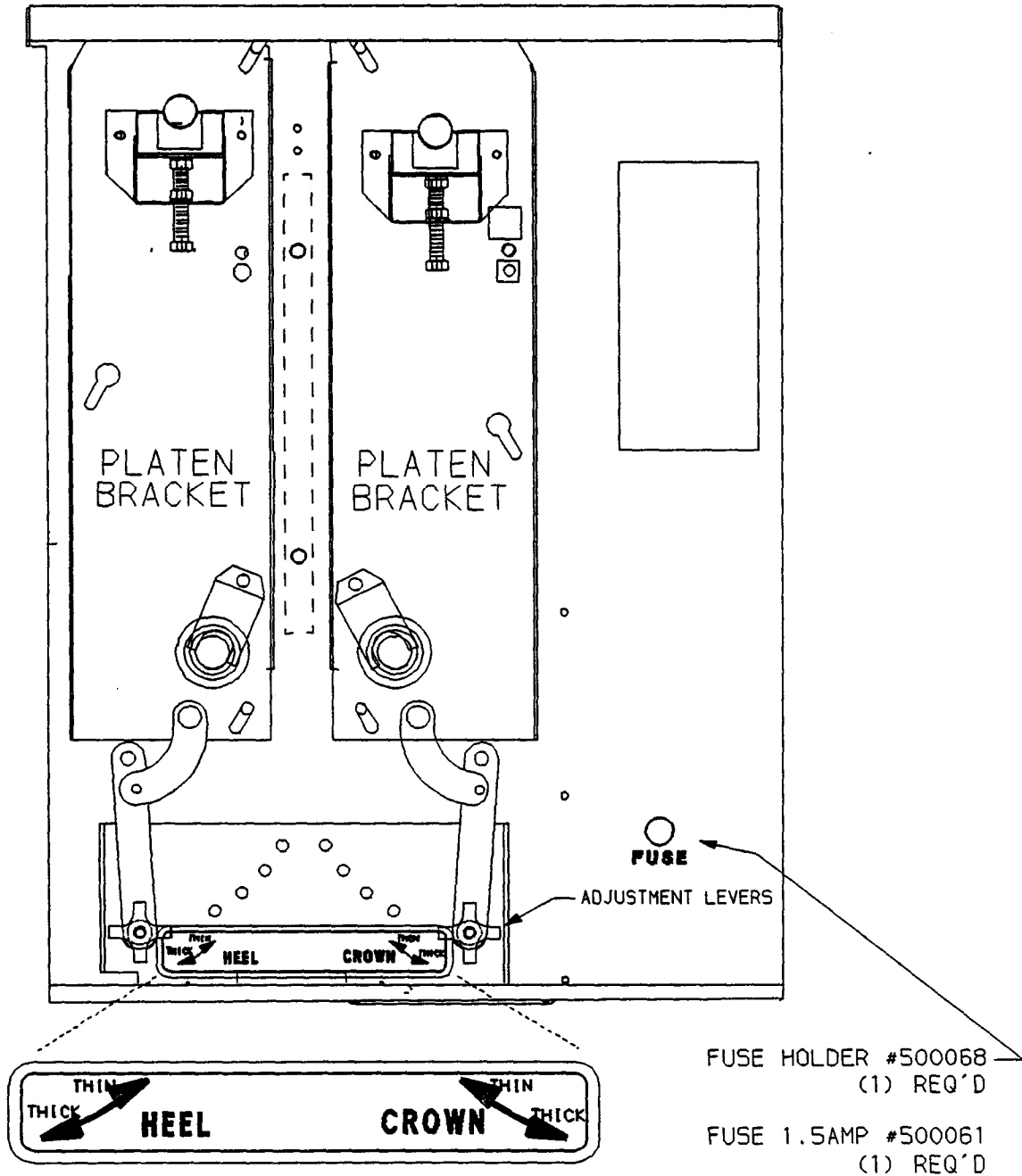
DRIVE SIDE W/ COVER REMOVED



DRIVE SIDE W/ COVER REMOVED

INTERNAL PARTS AND DRIVE COMPONENTS
FIGURE 6

SHOWN WITH SIDE PANEL OFF



ADJUSTABLE GAP SETTING

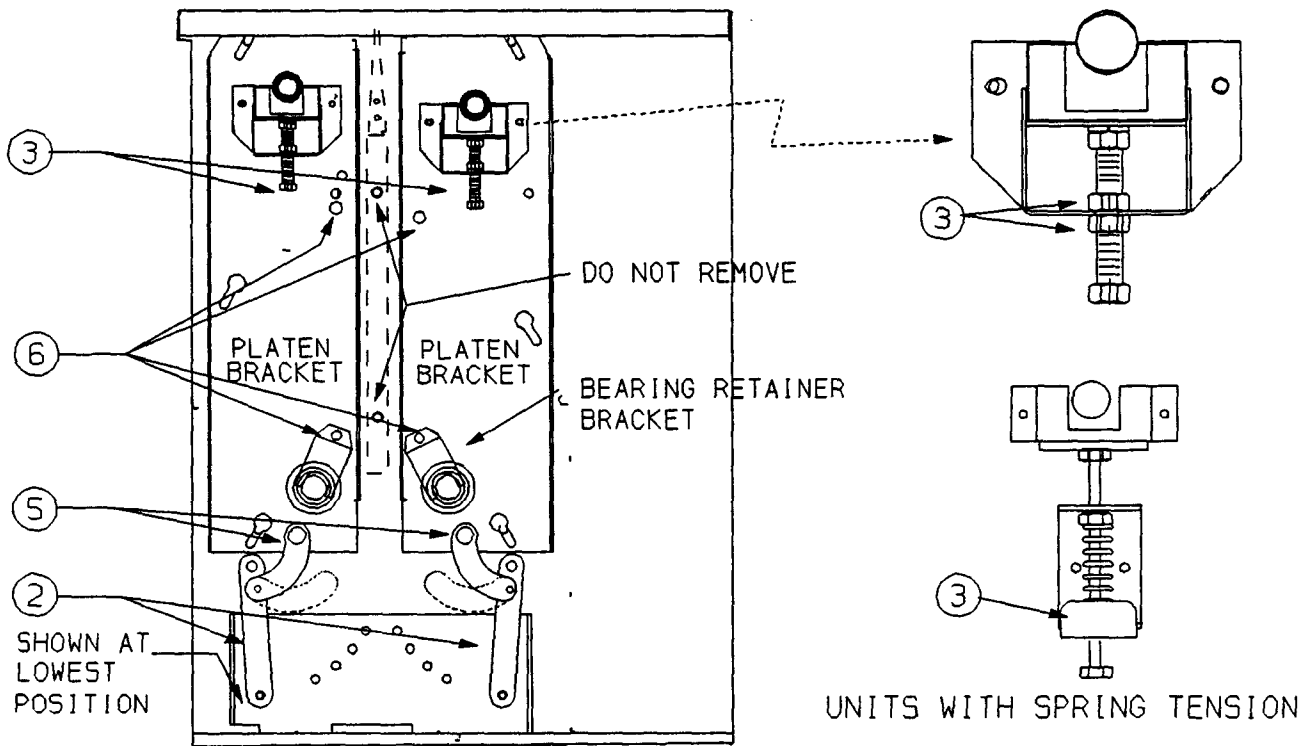
ADJUSTMENT LEVER OPERATION

FIGURE 7

TOOLS NEEDED: 1/2" WRENCH

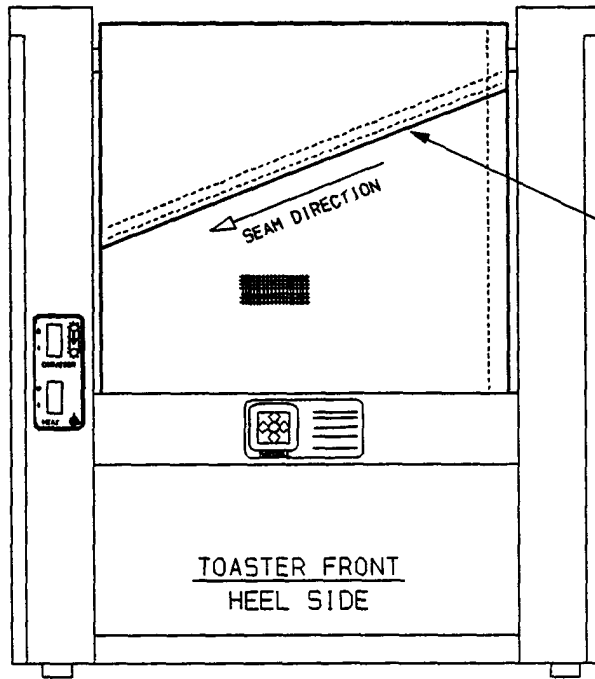
BEFORE PROCEEDING FURTHER, DISCONNECT POWER TO MACHINE

1. REMOVE FRONT, BACK AND SIDE COVERS
2. SET EACH ADJUSTMENT KNOB TO LOWEST POSITION. SEE ILLUSTRATION BELOW.
3. LOOSEN NUT ON UNDERSIDE OF BEARING BRACKET THEN LOOSEN NUT ON TOP OF BRACKET. NUTS SHOULD BE LOOENED ENOUGH TO BE ABLE TO REMOVE BELT FROM ROLLER. IF UNIT IS EQUIPPED WITH SPRINGS, PULL OUT TENSION KEEPER LEVERS.
4. LAY UNIT ON SIDE. SO THAT DRIVE SIDE IS FACING DOWN AGAINST TABLE.
5. PULL UP ON ON EACH CURVED ADJUSTMENT ARM SO THAT IT COMES LOOSE FROM THE ROUND PIN ON EACH BRACKET. YOU MAY NEED TO HAVE ONE HAND ON ADJUSTMENT ARM WHILE WORKING THIS LOOSE. SWING ADJUSTMENT ARM AWAY FROM ROUND PIN. SEE ILLUSTRATION BELOW.
6. REMOVE BOLTS ON EACH SIDE PLATEN. TOTAL OF (4) THIS WILL ALLOW THE PLATEN BRACKETS AND BEARING RETAINER BRACKETS TO BE REMOVED. SEE ILLUSTRATION BELOW. DO NOT REMOVE BOLTS THAT ARE IN THE CENTER.
7. SLIDE OLD BELTS OFF OF ROLLERS AND THRU CUTOUTS IN SIDE.
8. BEFORE SLIDING ON NEW BELTS. REFER TO FIGURE 9. IF BELTS HAVE A STITCHED JOINT, MAKE SURE TO ORIENT AS SHOWN. IF NEW BELT HAS CLEATS DO NOT REFER TO FIGURE 9. THESE BELTS ARE SYMMETRICAL AND CAN BE INSTALLED ON HEEL OR CROWN SIDE.
9. IF UNIT IS EQUIPPED WITH THE SPRING TENSION SETUP, INSTALL TENSION KEEPER LEVERS BACK INTO SLOT. IF NO SPRINGS, TIGHTEN NUTS SO THAT BELT WILL NOT SLIP ON ROLLERS.
10. DISTANCE BETWEEN UPPER AND LOWER SHAFTS MUST BE THE SAME ON EACH SIDE OF UNIT. SEE FIGURE 11.

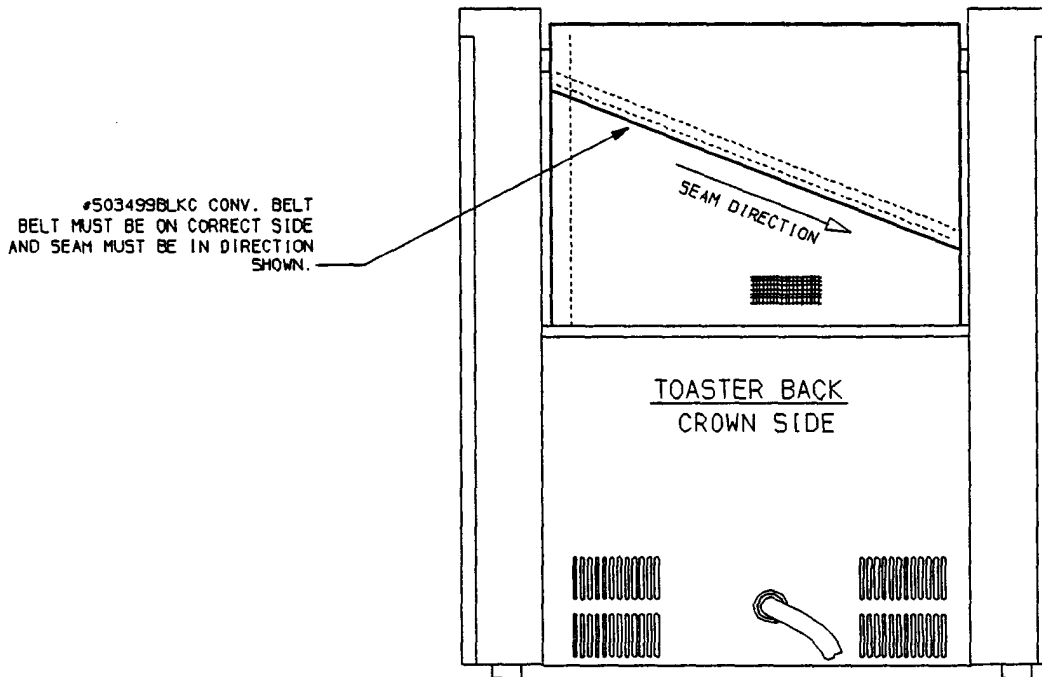


BELT REMOVAL INSTRUCTIONS

FIGURE 8



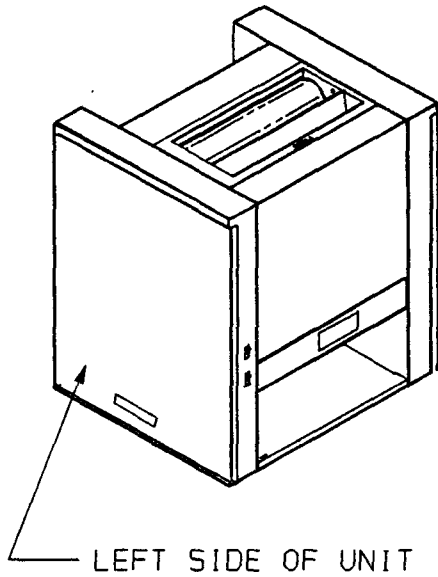
TOASTER SHOWN W/ FRONT COVER REMOVED



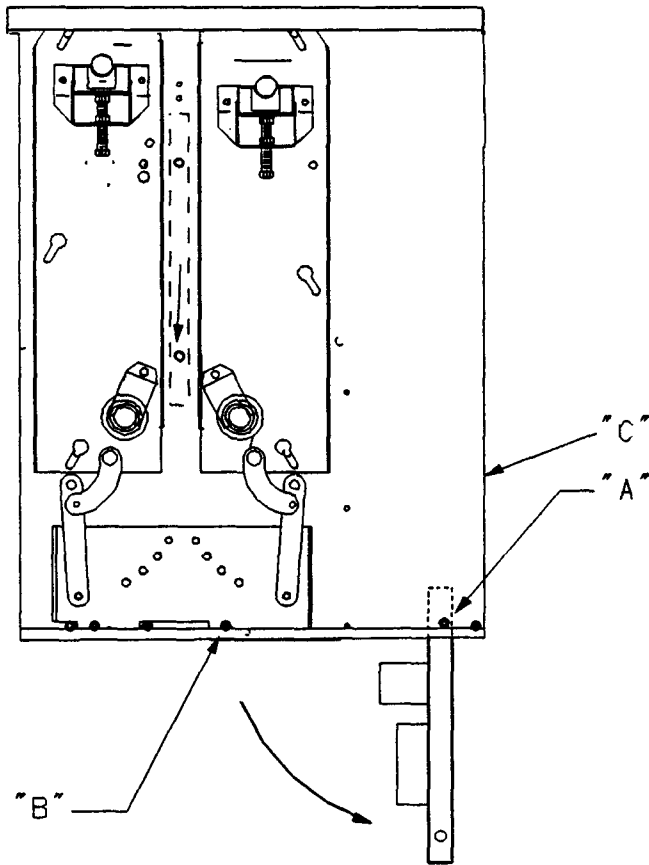
TOASTER SHOWN W/ BACK COVER REMOVED

TOASTER BELT ORIENTATION

FIGURE 9

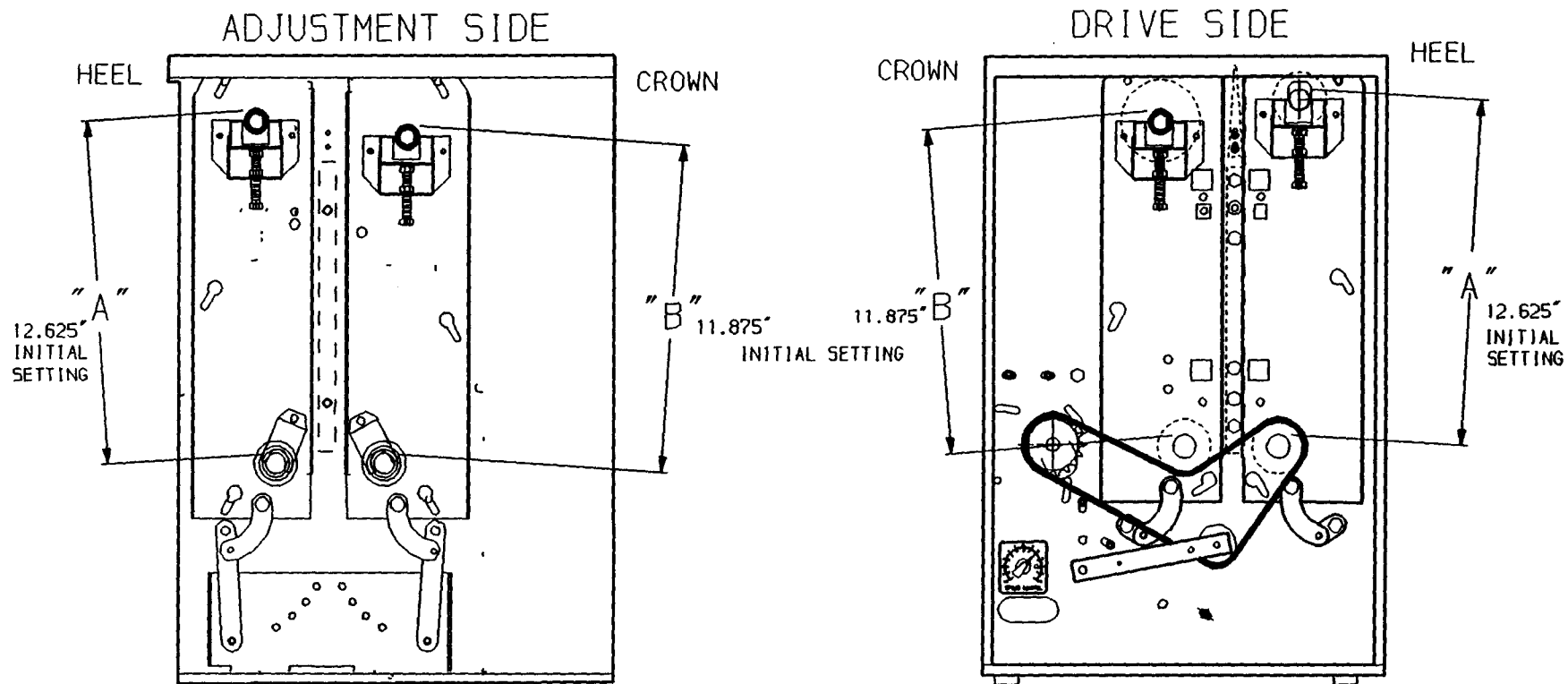


1. TURN UNIT OFF AND UNPLUG
2. REMOVE BOTH SIDE COVERS
3. LOOSEN SCREW "A"
4. REMOVE SCREW "B"
5. LAY UNIT ON LEFT SIDE TO ALLOW BOTTOM PANEL TO SWING OPEN
6. BOTTOM OF CONTROL CABINET SWINGS DOWN GIVING ACCESS TO CONTROLS
7. REAR OF CABINET IS CAULKED, ALONG LINE AT "C". DO NOT BREAK THESE SEALS



CONTROL CABINET ACCESS INSTRUCTIONS

FIGURE 10



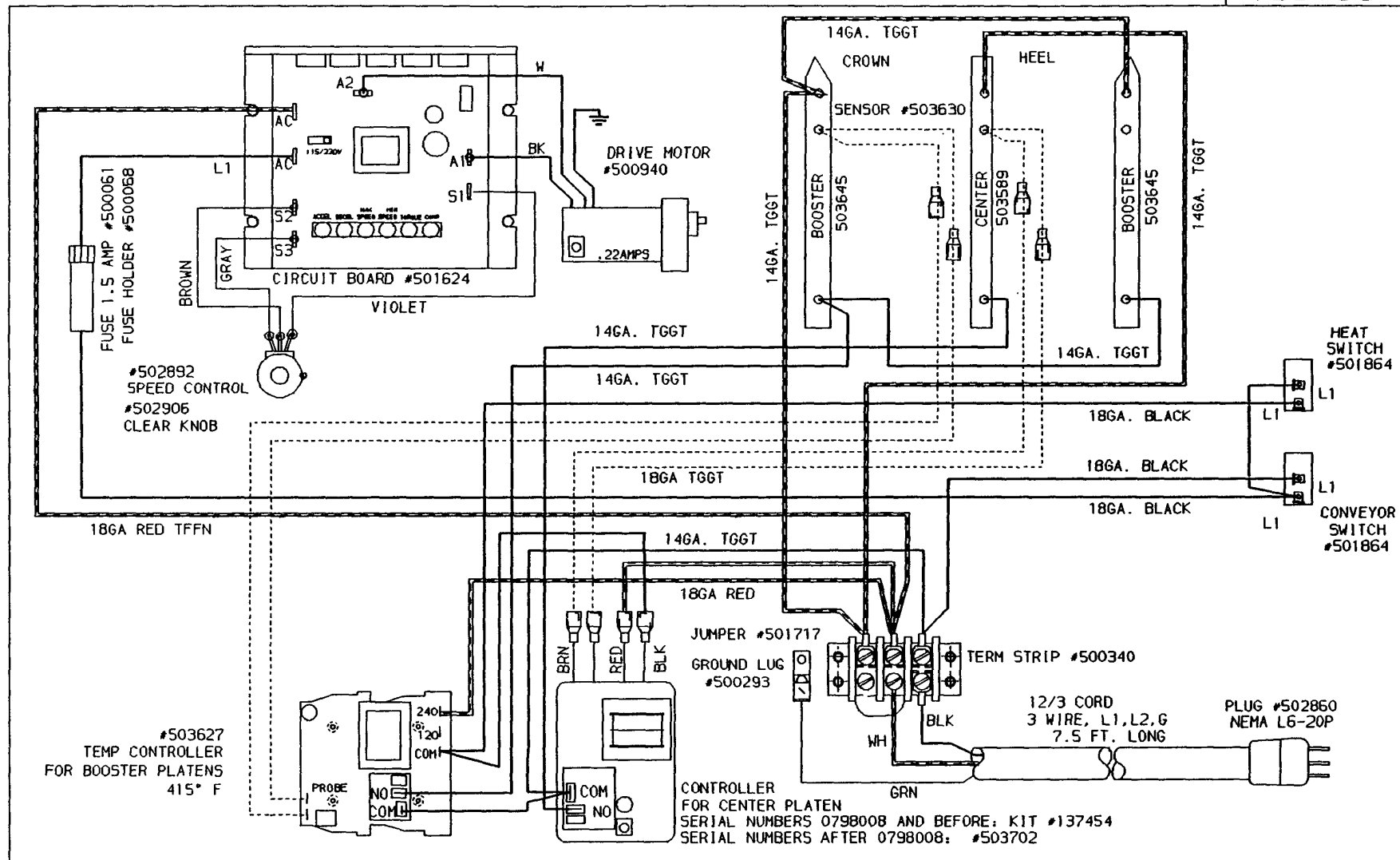
AFTER BELTS INSTALLED AND TENS[ON ING BOLTS ARE SET, MEASURE DISTANCES BETWEEN TOP OF UPPER SHAFT AND TOP OF LOWER SHAFTS.

MEASURE DISTANCE "A" ON DRIVE SIDE. MEASURE DISTANCE "A" ON ADJ. SIDE DISTANCE "A" SHOULD BE SAME ON BOTH SIDES. ADJUST IF NEEDED.

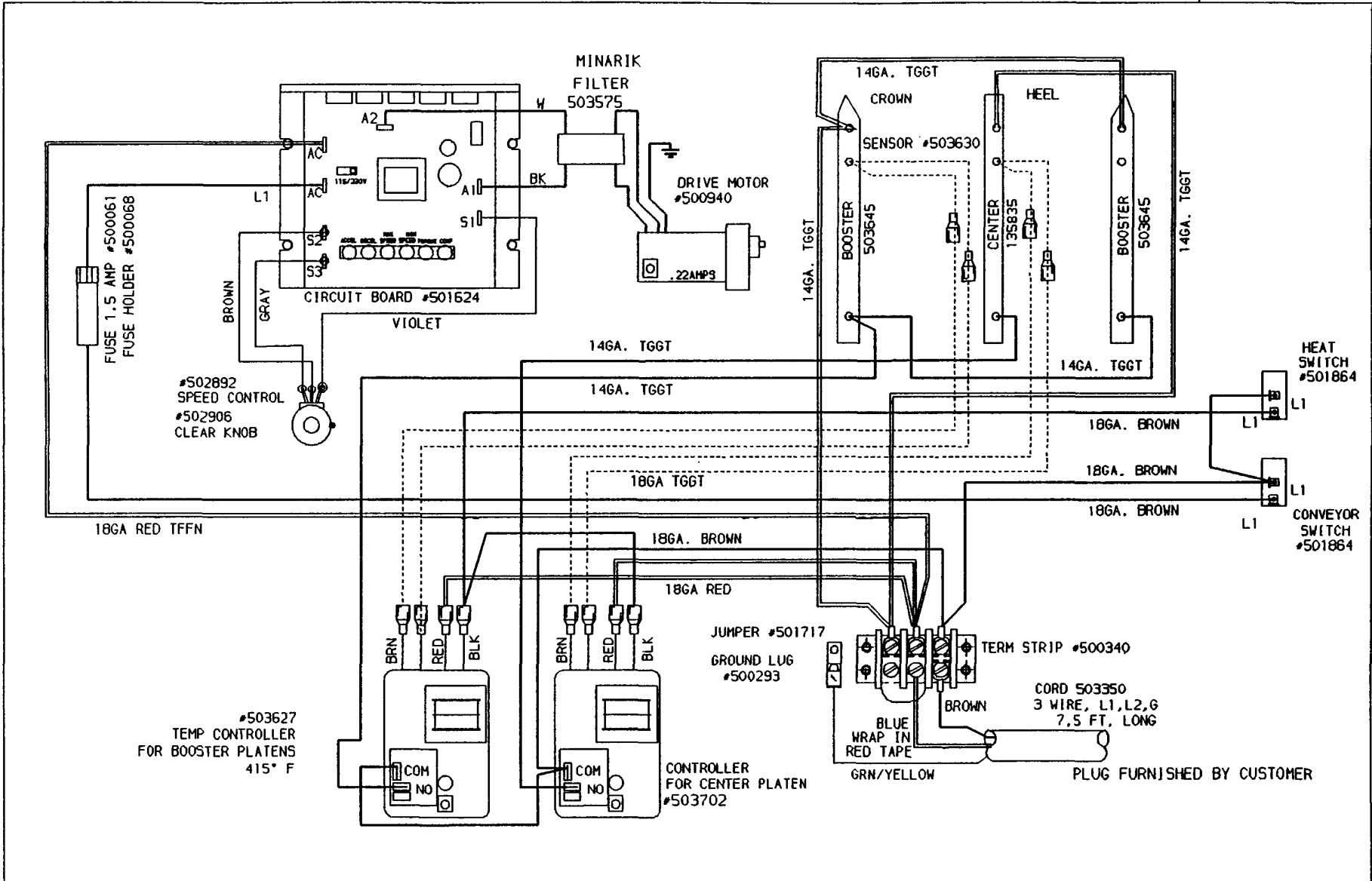
MEASURE DISTANCE "B" ON DRIVE SIDE. MEASURE DISTANCE "B" ON ADJ. SIDE DISTANCE "B" SHOULD BE SAME ON BOTH SIDES. ADJUST IF NEEDED.

TOASTER TENSION INSTRUCTIONS

FIGURE 11



REV	DATE	DESCRIPTION	P.W.	19-JUN-98	MARSHALL AIR SYSTEMS, INC.			
1	10-AUG-98	CHG WIRING OF BOARD, CHG FUSEHOLDER [PW]			SCHEMATIC, HST13 208V 1PH 18.5 AMPS			
2	19-AUG-98	ADDED NOTE FOR CENTER CONTROLLER, CH. PLUG						
3	09-SEP-98	CHG PLUG FROM L6-30 TO L6-20 [CP]			SIZE	PROJ.	DWG NO.	REV
4	10-SEP-98	ADDED P/N FOR PLATENS [CP]			A		135169	8
5	20-JAN-99	CH. SWITCH WIRING FOR HEAT [PW]			SCALE		IMAGE MAY BE REDUCED	CODE
6	18-FEB-1999	CHG CORD LENGTH FROM 6 TO 7.5 [CP]			1:1		NTS	CH7
7	19-MAY-1999	KIT #137454 WAS 503626 [PW]						
8	29-SEP-1999	CHG WIRING TO BOOSTER CONTROLLER [PW]						



REV	DATE	DESCRIPTION	P.W.	19-JUN-98	MARSHALL AIR SYSTEMS, INC.			
1	12-OCT-98	135835 WAS 503227 [CP]			SCHEMATIC, HST13 240V 1PH 18.5 AMPS			
2	18-FEB-1999	CHG CORD LENGTH FROM 6 TO 7.5 [CP]						
3	16-MAR-1999	ADDED P/N FOR CENTER PLATEN CONTROLLER [CP]			SIZE	PROJ.	DWG NO.	REV
4	12-JUL-1999	DELETED FILTER 503574 [PW]			A		135817	4
REFERENCE					SCALE: IMAGE MAY BE REDUCED			
"X"					1:1 NTS			
					CODE: CH7INTLCE			