



OWNER'S MANUAL

HT18 CFA

With Special Warranty Procedures

For Chick-fil-A Rollout

Rollout Start date – 3/1/04 – 3/1/05

MARSHALL AIR SYSTEMS, INC.

419 Peachtree Drive South

Charlotte, NC 28217

Customer Service 800-722-3474

OWNER'S MANUAL

MODEL HT18 CFA – HORIZONTAL TOASTER



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SCHEMATICS

WIRING SCHEMATIC (208 or 240V, 60HZ, 1PH) VARIABLE SPEED.....	DWG #144046
TECHNICAL BULLETIN, CARRIAGE CONVEYOR	DWG #144885

MARSHALL'S COMMITMENT TO QUALITY AND PRODUCT IMPROVEMENTS MAY CAUSE CHANGES FROM TIME TO TIME.. PLEASE CHECK CHICK-FIL-A EQUIPMENT WEBSITE OR CONTACT MARSHALL AIR SYSTEMS, INC.

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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. **It is necessary to check your voltage at the receptacle.** Toaster is factory shipped for 208 volts. If voltage at receptacle is 230V or higher, it is necessary to simply change a jumper inside toaster. **CAUTION: DO NOT REMOVE THE ELECTRICAL CONTROL PANEL COVER ON THE RIGHT SIDE OF UNIT WITHOUT FIRST TURNING OFF THE TOASTER AND UNPLUGGING THE TOASTER.** See Figure 8 for instructions.

FINAL INSTALLATION

1. Place unit on a level surface.
2. Check that all covers are in place on the toaster.
3. Remove the plastic covering the top and sides.
4. Remove the conveyor carriage and wash with warm soapy water and sanitize.
5. Check that the toaster platen sheet is installed under the contact platens. The toaster platen sheet is installed by placing rods into arms of toaster. See Figure 4.
6. Reinstall conveyor carriage and latch.
7. Connect the toaster to the power supply.
8. Press the on/off button and check for free movement of the two conveyor belts. The LED control display will read "Lo."
9. Unit is ready to use in approximately 15 minutes. LED control will display "Rdy."
10. After warm up, insert buns into the toaster at the front 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 FACE UP.**
11. The toasted heel and crown will return to the toaster front together. Check the appearance of the toasted buns.
12. Adjust the gap between the conveyor and the toaster heat platens using the two knobs on top of the unit. Both must be lowered at the same time. The knobs are labeled "HEEL" and "CROWN". The height gauges in the front indicate whether you are raising or lowering the platens.
13. The conveyor speed is preset at the factory.
14. 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 12 is set correctly.

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OPERATION

1. The toaster is operated by pressing and releasing the "I/O" Button of the control. "Lo" will be displayed.
2. The display of the control will show "Rdy" once the toaster is up to temperature. (Approximately 15 minutes.)
3. For proper operation, insert heels cut side up on the side of the toaster marked "HEEL", and crowns on the opposite side.
4. To turn off, press and hold the "I/O" Button for three (3) seconds. "Hi" will be displayed which means unit is still too hot to remove any parts. Once the toaster has cooled (approximately 30 minutes), the display will show "Off."
5. The LED Control will indicate important information:
 - A. Press and release either the Heat 1(Crown) or the Heat 2 (Booster) Button, the pre-programmed temperature settings will flash. This will display for 5 seconds or until another button is pressed.
 - B. Press and hold either the Heat 1(Crown) or the Heat 2 (Booster) Button for 3 seconds, the actual platen temperatures will be displayed. This will display until another button is pressed.
6. Definitions of various displays:

"Off"	Unit is off and not operating.
"Lo"	Heater platens have not reached programmed set temperature.
"Rdy"	Unit has reached programmed set temperature and is ready to toast.
"Hi"	Unit is off and too hot to touch most removable parts.
"AL1"	This is an alarm message that indicates the Left Platen Probe is disconnected or defective.
"AL2"	This is an alarm message that indicates the Right Platen Probe is disconnected or defective.
"AL3"	This is an alarm message that indicates the Left Platen is too hot. Unit shuts off.
"AL4"	This is an alarm message that indicates the Right Platen is too hot. Unit shuts off.

PREVENTIVE MAINTENANCE

DAILY:

1. Remove conveyor carriage from toaster body.
2. Take conveyor carriage to sink and spray with water.

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3. Carefully remove the toaster platen sheet, 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 OR IMMERSE IN WATER. If sheet has black, butter buildup, the buildup must be wiped off before using.**
4. Rotate toaster platen sheet so the surface of the sheet is opposite than the day before.
5. While toaster is in upright position, wipe cooling fan discharge with a dry cloth or towel.
6. Reinstall all parts after drying.

WEEKLY:

1. Perform Daily Maintenance.
2. Replace any worn out toaster platen sheets with Marshall Part #503983 (4 pack).

MONTHLY:

1. Perform Daily Maintenance.

TROUBLESHOOTING 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 TOASTER IS UNPLUGGED.

1. **PROBLEM:** No heat and conveyor belts do not move.

SOLUTION:

OPERATOR CHECK:

- A. Check that toaster is plugged in. Check condition of power cord and plug.
- B. Check circuit breaker in main breaker panel. Reset if necessary.
- C. Check for error message. "AL1" message is a defective left platen probe. "AL2" is a defective right platen probe. "AL3" is high temperature error of the left platen. "AL4" is high temperature error of the right platens. "AL3" and "AL4" alarms will turn unit off requiring a

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service call.

QUALIFIED SERVICE TECHNICIAN CHECK:

- A. Check that there is power at receptacle. Verify voltage is correct based upon the voltage listed on the toaster nameplate.
- B. **WITH UNIT UNPLUGGED**, check connections inside of plug. Remove right side panel and check wiring. Any wires or terminals with burns or discoloration from arcing should be replaced. All wiring, if replaced, should be same or higher rated wire.

2. PROBLEM: **Conveyor belts move but no heat.**

SOLUTION:

QUALIFIED TECHNICIAN CHECK:

- A. Check for loose connections at terminal strip and temperature terminals (see schematic).
- B. Verify that the heater and sensor wires are connected to the controller.
- C. Replace all connections or components that have damaged terminals. Replace any damaged wiring with same or higher rated wire.
- D. Check the resistance of the sensor(s). If sensor is open, replace.
- E. Check voltage into solid-state relays. The voltage input from module should be approximately 5Vdc. Voltage to heater should be 208 or 240Vac.
- F. Check the resistance of the heater platens: 24 ohms at room temperature

3. PROBLEM: Heater platens are hot, **control says LO or RDY, conveyor belts do not move.**

SOLUTION:

OPERATOR CHECK:

- A. Make sure carriage is pushed completely in and latch is engaged.
- B. Remove conveyor carriage and turn conveyors by hand and determine there is no binding due to dropping carriage.
- C. Make sure all setscrews on gears are tight.
- D. Check motor to make sure it is turning with carriage removed.

QUALIFIED SERVICE TECHNICIAN CHECK:

- A. Check the fuses inside the right panel. Replace with type AGC 1.5 amp fuse if necessary.
- B. Check for voltage to speed control board. Check for voltage to the motor.
- C. Check for red light on the speed board. If red light is lit, the motor is working too hard or in a stalled state.
- D. Some speed boards have a green light. If green light is lit then power is going to the board.
- E. Make sure the input voltage switch(es) of the speed board is set at 230V.
- F. Check for DC voltage out of board to motor.
- G. Check all wiring to motor for loose connectors.

4. PROBLEM: **Variable Speed Motor Not Operating**

SOLUTION:

QUALIFIED SERVICE TECHNICIAN CHECK:

- A. Verify correct voltage to unit and motor.

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- B. Check 1.5-amp fuses (#500061) inside right control panel. Replace if necessary.
- C. Check for DC voltage to motor out of board (90VDC Motor).
- D. If red light on board is on, disconnect load from motor by removing conveyor carriage. If it goes out, look for conveyor binding. If it stays lit, replace motor –there is probably a gearbox problem.
- E. Check DC amp draw to motor by putting meter in series with motor. (Pull wire from A1 on board, put one lead to A1, other to wire pulled from A1.) When red LED on board is on, DC amp reading should be .3 amp approximately.
- F. If green LED is on and red is not, make sure that there is varying DC voltage out of board to motor (terminals A1 & A2 on board) as speed control knob is increased or decreased.
- G. Check for oil leaks on motor signifying bad seal or overheating that has taken place. In either case, motor should be replaced.

5. PROBLEM: **Circuit Board not working properly.** DO NOT ADJUST POTS ON BOARD!

SOLUTION:

QUALIFIED SERVICE TECHNICIAN CHECK:

- A. Verify AC voltage to board and DC voltage to motor from board. If there is AC voltage in, but no DC voltage out, replace board.
- B. Check all connections on board and terminal strip.
- C. Verify that board is wired correctly. (See schematic in Owner's Manual.)
- D. Make sure that switch on board is in 230V position.
- E. Make sure all wires are connected to potentiometer. A loose wire will make toaster run at single uncontrolled speed.

6. PROBLEM: **Product is over or under toasted.**

SOLUTION:

OPERATOR CHECK:

- A. Check the gap settings. There must be compression of the bun as it feeds into the toaster. Decreasing the gap will increase bun temperature and darken surface color. To lower (decrease gap) turn knob counter-clockwise; to raise (increase gap) turn knob clockwise.
- B. Check toast time. Time should be 20 seconds nominal from start to finish.
- C. Check conditions of toaster platen sheet and belts. Clean both as noted in this manual.
- D. Make sure conveyor belts are not binding.
- E. Check drive system for loose sprockets.

QUALIFIED SERVICE TECHNICIAN CHECK:

- A. Check that heaters are cycling. Do this by using an amp clamp on either of the wires from the controller to the platen. You are looking for cycling. Also verify that the temperature controller has power.
- B. Check that the 3 wires from the speed board are hooked to the speed control.

7. PROBLEM: **Buns do not feed properly into toaster.**

SOLUTION:

OPERATOR CHECK:

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- A. Check condition of the toaster platen sheet to be sure buns are not sticking. Clean sheet as described in daily maintenance. Replace if needed. Sheet should be rotated daily.
- B. Check toaster platen sheet installation.
- C. Toaster gap set too close or too far. See instructions on Page 1, Number 12.

8. PROBLEM: Buns do not exit toaster.

SOLUTION:

OPERATOR CHECK:

- A. Check condition of the toaster platen sheet to be sure buns are not sticking. Clean sheet as described in daily maintenance. Replace if needed. Sheet should be rotated daily.
- B. Check toaster platen sheet installation.
- C. Toaster platen gap set too close.

QUALIFIED SERVICE TECHNICIAN CHECK:

- A. Check tension on lower conveyor. If too loose, buns will not exit. Tighten conveyor by adjusting the Plate Tension Assembly (See Figure 5).

9. PROBLEM: Gap setting knobs jammed

SOLUTION:

OPERATOR CHECK:

- A. Turn knobs counter-clockwise. Indicator is read using top edge.
- B. Turn both knobs at same time. Platen sheet could be interfering.

10. PROBLEM: Conveyors turning intermittently.

SOLUTION:

OPERATOR CHECK:

- A. Make sure carriage is pushed back and latch is engaged.
- B. Check for bent parts on the carriage; for example, handle, back flange.
- C. Check bottom rail flange for bending. Refer to the Technical Bulletin at the end of this manual for instructions.
- D. Tighten latch mechanism. Use a screwdriver and 7/16" wrench. It is necessary to remove right side cover to access.

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REPLACEMENT PARTS

PART NUMBER	DESCRIPTION	FIGURE
144054	Bar, Chain Support (4 Per)	5
144611	Bearing, Shaft Rear (4 Per)	5
144350	Bearing, Shaft Front (4 Per)	5
503287	Brush, Motor Right Angle	Schematic
144444	Carriage, Conveyor Asby	3
144291	Circuit Board, 230V	Schematic
143852	Control, 3 Digit	Schematic
144779	Control, ECM3 Module	Schematic
504015	Conveyor, Return	5
504001	Conveyor, Toaster	5
504011	Cord, 12/3 w/6-20 Plug	Schematic
144436	Cover, Speed Control (serial no. 1036 and after)	3
144139	Fan, Cooling 240 Vac	Schematic
500068	Fuse Holder	Schematic
500061	Fuse, 1.5 AMP	Schematic
144089	Gear, Return and Drive	5, 6
144085	Gear, Toaster	5
144435	Guard, Front Heat	3
504016	Idler, 1.405 Dia. (2 Per)	5
503988	Idler, Blank Sprocket (9 Per) Return	5
501717	Jumper	Schematic
500088	Knob, Small (serial no. 1035 and before)	Schematic
502147	Knob, Clear (serial no. 1036 and after)	3
500293	Lug, Ground	Schematic
503985	Motor, Right Angle Drive	6
144016	Panel, LH Side	3
144017	Panel, RH Side	3
144027	Plate, Cover (serial no. 1035 and before)	3
144402	Plate, Idler Tensioning (4 Per)	5
503981	Platen, 9" X 12" (2 Per)	7
502892	Potentiometer, Rotary	Schematic
144077	Rod, Toaster Platen Sheet 18.250" (2 per)	4
503590	Sensor, RTD (2 Per)	Schematic
144004	Shaft, Conveyor Drive (2 Per)	5
143749	Shaft, Idler (2 Per)	5
503983	Sheet, Toaster Platen	4
504006	Spacer, Aluminum (8 Per)	5
144405	Spacer, Conveyor (6 Per)	5
504002	Spring, Tension (4 Per)	5
503987	Sprocket, 1.25 OD (7Per)	5
144078	Sprocket, Conveyor Asby (2 Per)	5
144005	Support, Chain Belt (4 per)	5
500340	Terminal Strip	Schematic

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) Marshall's obligation under this warranty is limited to the repair or replacement at its option of any defective part. 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.

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, 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.
8. **Toaster platen sheets are consumable items and not covered under warranty:**

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.



TOASTER WARRANTY
RETURN PROCEDURES
ESPECIALLY FOR Chick-fil-A®



2 Year Exchange Warranty

First year - parts and labor, customer only pays freight one way.

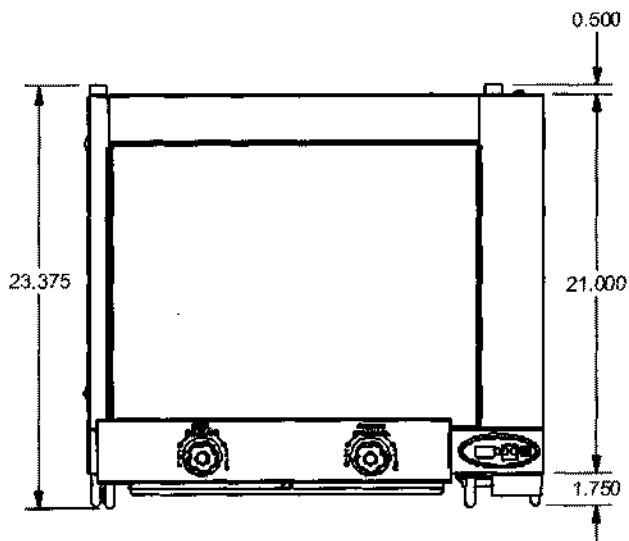
Second year – parts and labor, customer pays freight both ways.

For prompt warranty replacement and RGA processing:

1. Please call Marshall's Customer Service Department at 800-722-3474 or 704-525-6230 for assistance and an RGA number. Please have your toaster serial number available.
2. A Return Goods Authorization (RGA) number must be issued by Marshall Air Systems, Inc. Unauthorized returns will not be processed.
3. Customer service will dispatch a replacement toaster within 24 hours.
4. Upon receipt of replacement toaster, please pack the “broken” toaster in replacement box and return to Marshall Air Systems, freight pre-paid.
5. Marshall Air Systems will furnish a preprinted label for the return. If not returned in 7 days, invoice for replacement toaster will be due and payable.

SHIPPING DAMAGE must be reported to the carrier at time of delivery and is not covered under this warranty. Marshall is not 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. Toaster platen sheets are consumables and are not covered under warranty.

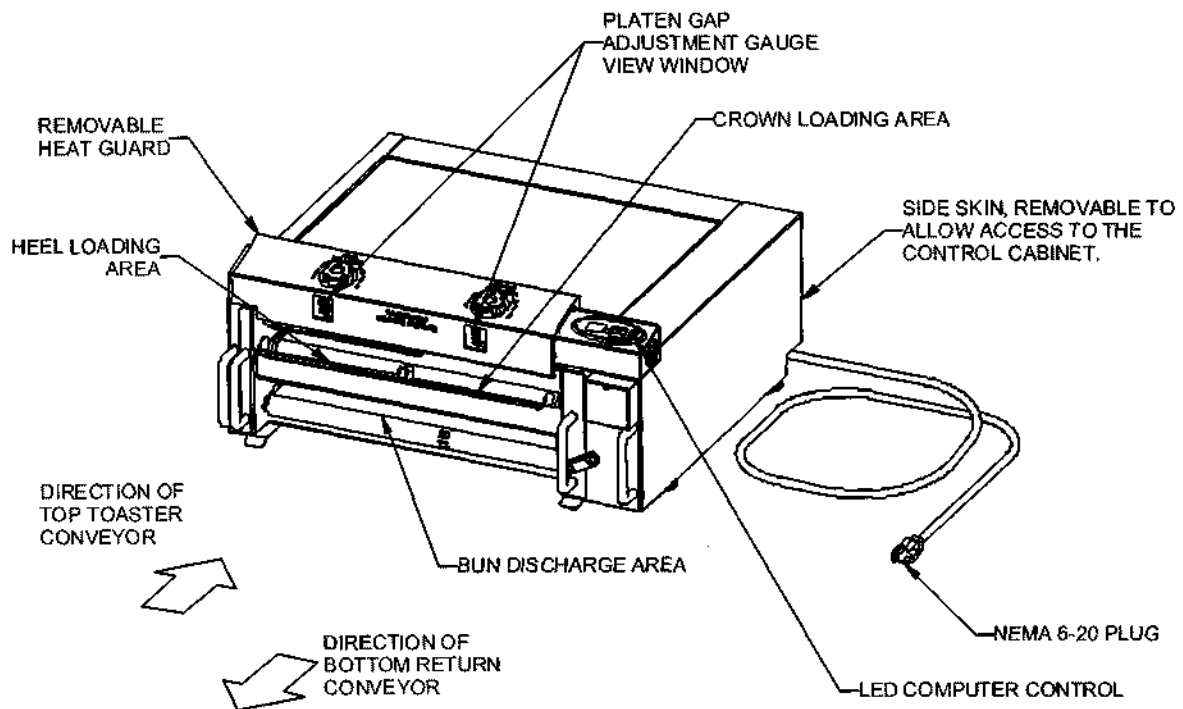
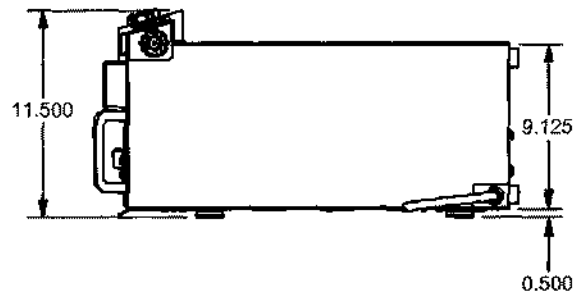
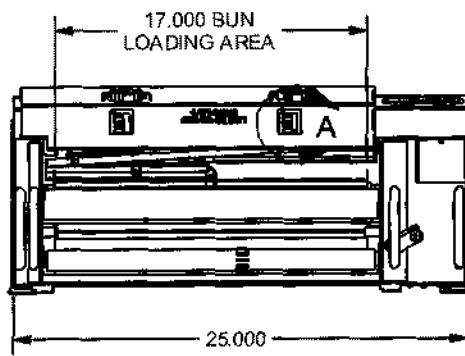
MODEL: HT18 CFA
 OVERALL DIMENSIONS
FIGURE 1



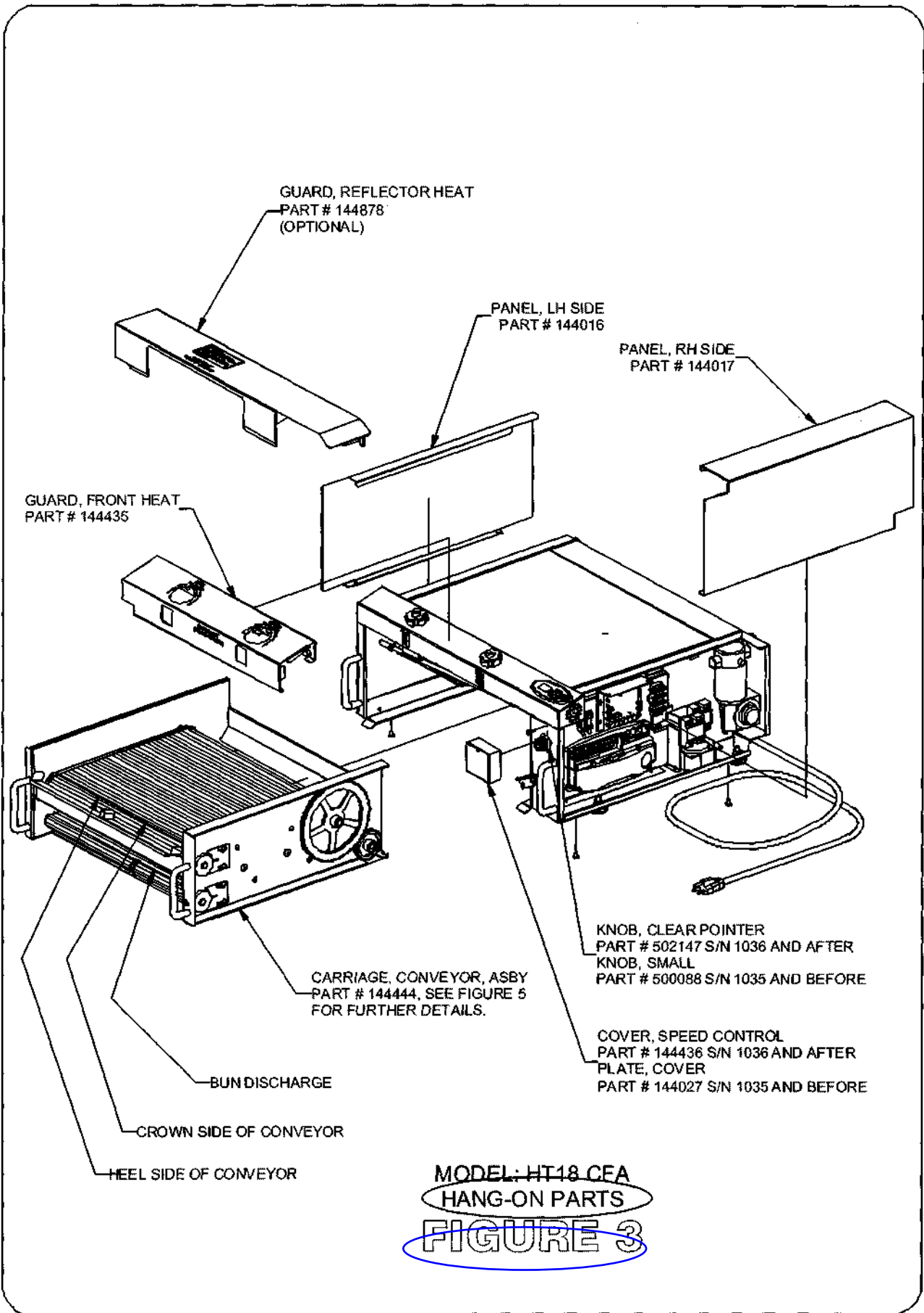
THIS EDGE IS TO
 BE USED TO FOR-
 GAUGE SETTING



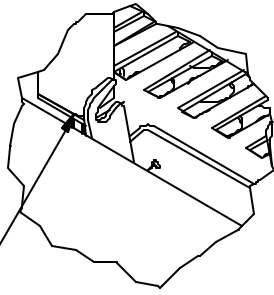
DETAIL A



MODEL: HT18 CFA
 OVERALL UNIT ISOMETRIC
FIGURE 2

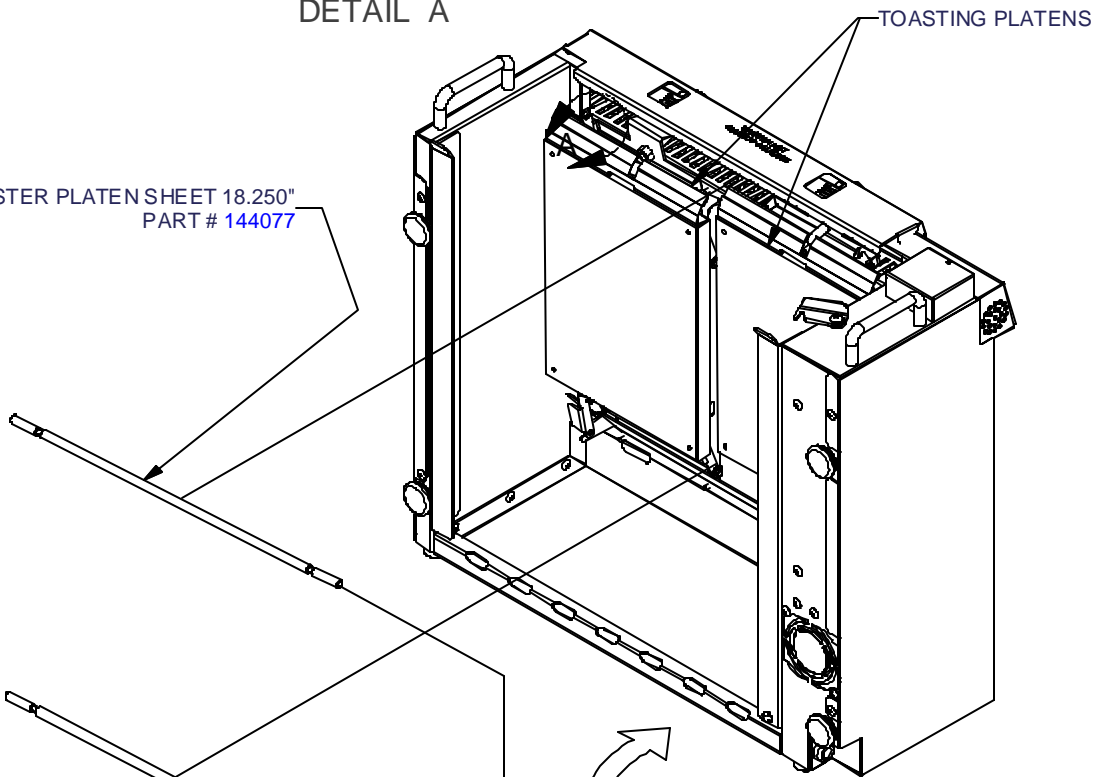


TOASTER PLATEN SHEET
ROD ATTACHMENT HOOK



DETAIL A

ROD, TOASTER PLATEN SHEET 18.250"
PART # 144077



TOASTING PLATENS

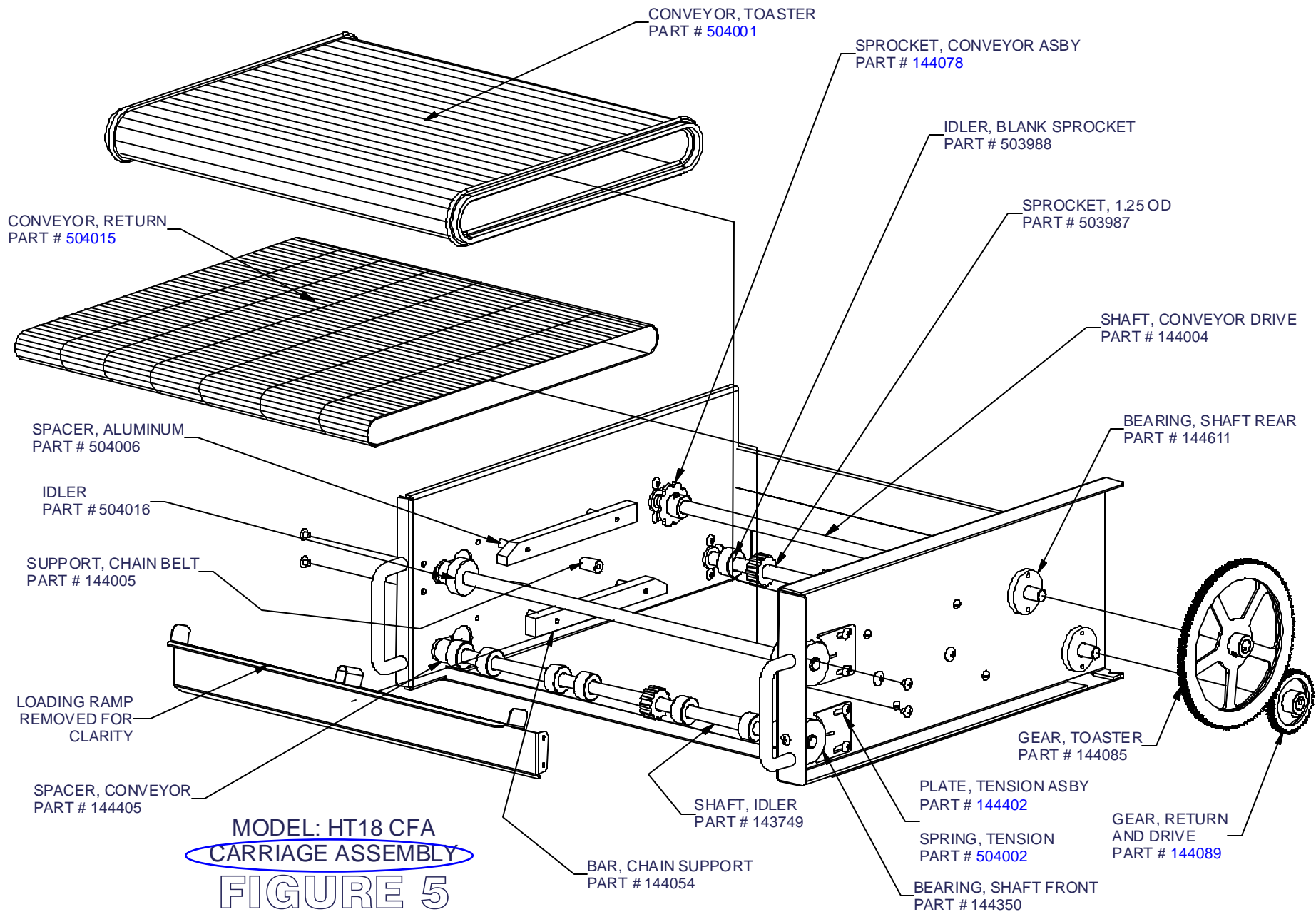
UNIT SHOULD BE
STOOD UPRIGHT ON
END FOR ACCESS
TO SHEET.

ROD, TOASTER PLATEN SHEET 18.250"
PART # 144077

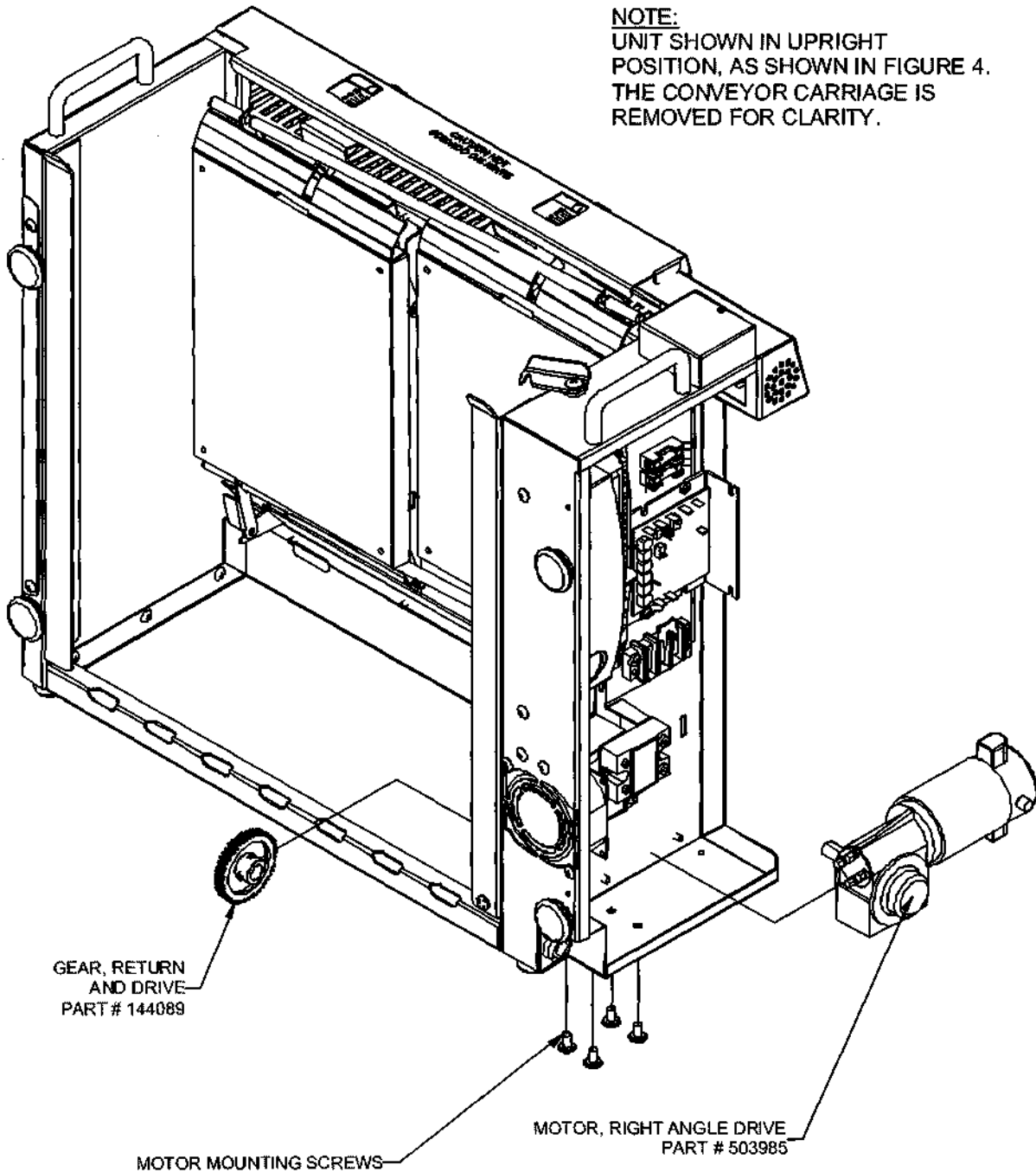
SHEET, TOASTER PLATEN
PART # 503983

MODELS: HT18 CFA
TOASTER PLATEN SHEET

FIGURE 4

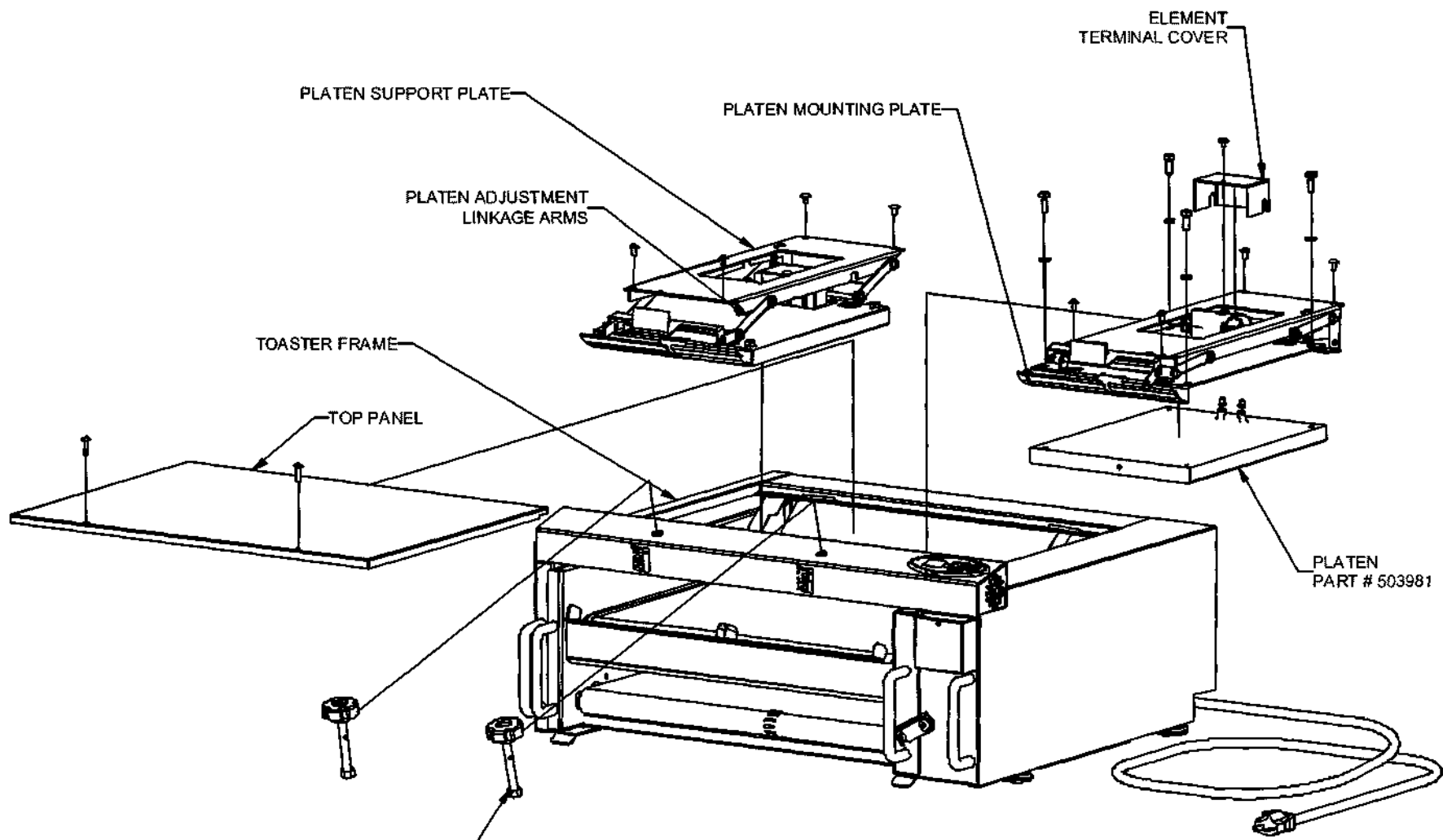


NOTE:
UNIT SHOWN IN UPRIGHT
POSITION, AS SHOWN IN FIGURE 4.
THE CONVEYOR CARRIAGE IS
REMOVED FOR CLARITY.



MODELS: HT18 CFA
DRIVE MOTOR ASSEMBLY

FIGURE 6



PLATEN SUPPORT PLATE

PLATEN MOUNTING PLATE

PLATEN ADJUSTMENT LINKAGE ARMS

ELEMENT TERMINAL COVER

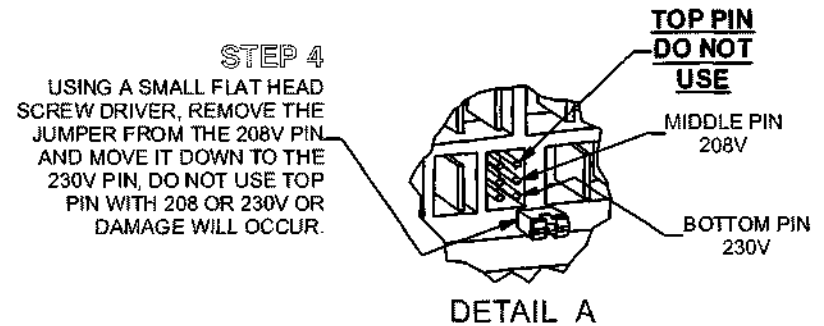
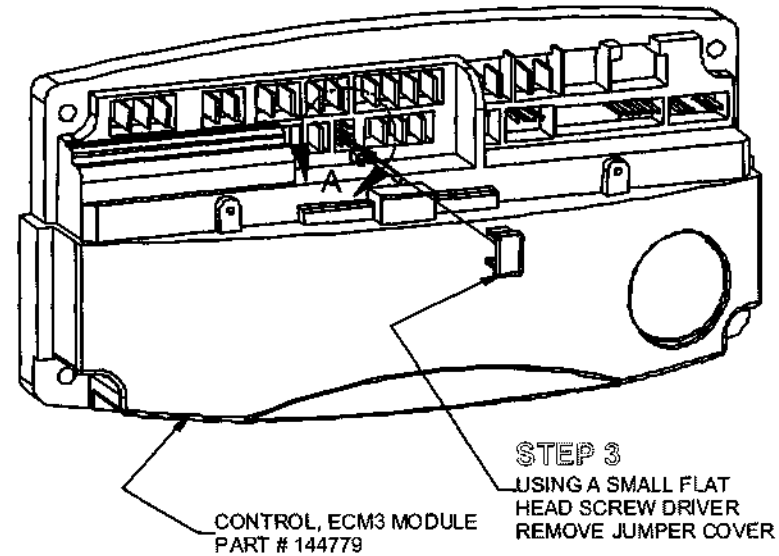
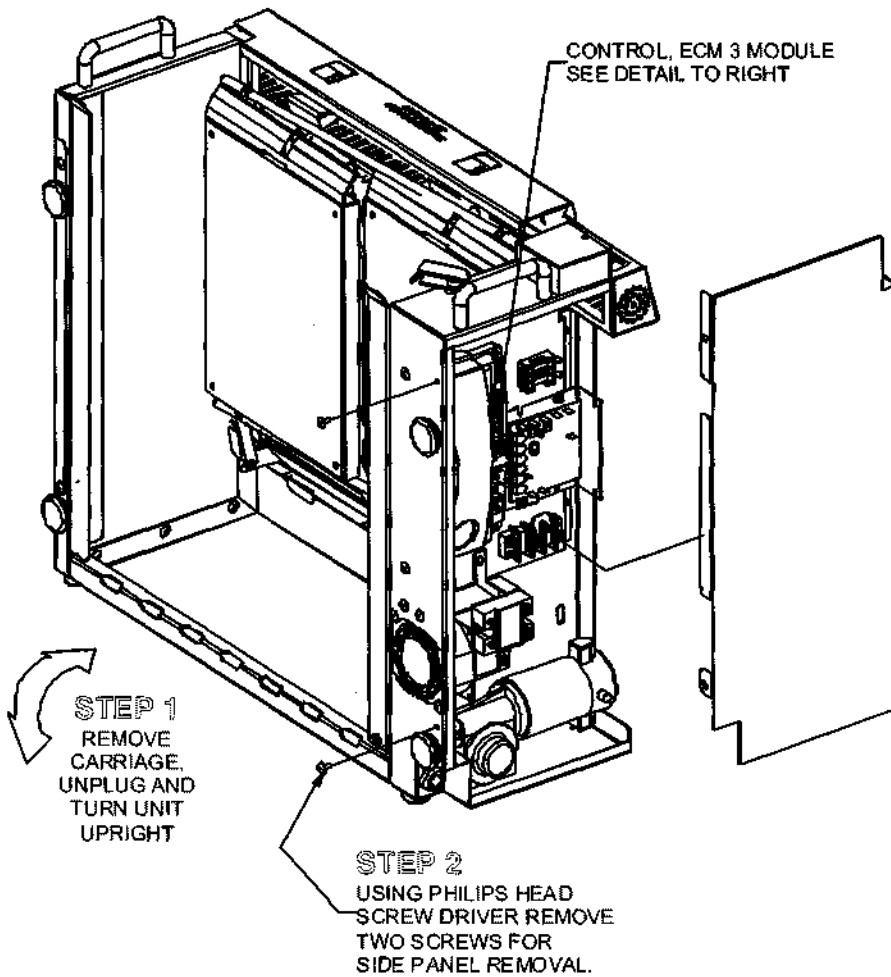
TOASTER FRAME

TOP PANEL

PLATEN PART # 503981

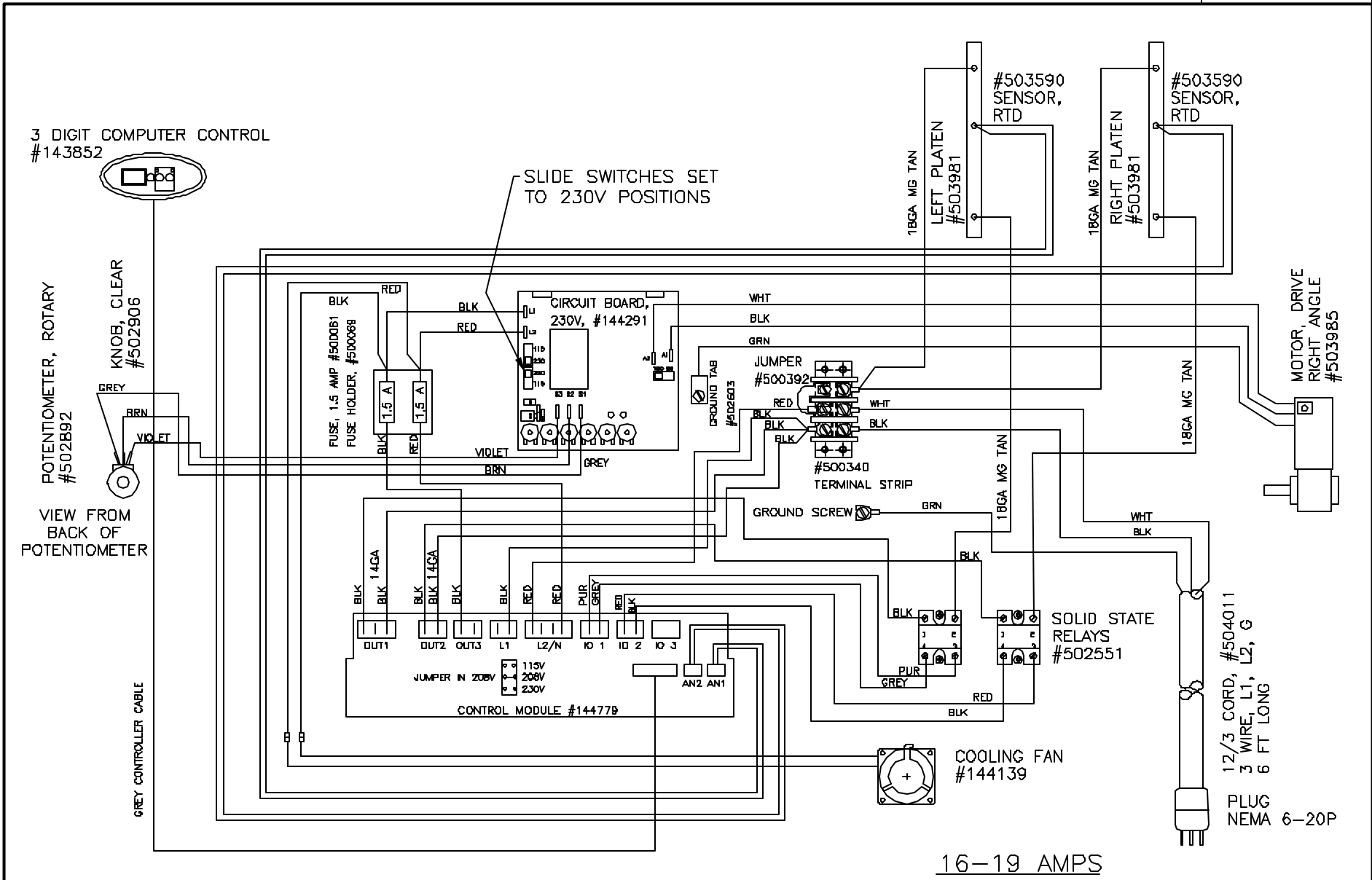
TOASTER HEATING PLATEN HEIGHT ADJUSTMENT

MODELS: HT18 CFA
HEATING PLATEN ASSEMBLY
FIGURE 7



**!CAUTION!: BE SURE THE UNIT IS UNPLUGGED OR
ELECTRICAL SHOCK MAY OCCUR.**

MODEL: HT18 CFA
CONTROLLER VOLTAGE
CONVERSION
FIGURE 8



REV	DESCRIPTION	DATE	REV. BY	DRAWN BY:	DATE:	REVDATE:	MARSHALL AIR SYSTEMS, INC.		
5	CH LEFT PLATEN SENSOR OUT1	17-DEC-2003	PW	P.W.	09-JUN-2003	18-MAR-2004	SCHEMATIC, HT18 208 OR 240 1PH		
6	MODULE P/N WAS 143855	30-JAN-2004	PW	GENERIC NAME:			W/LED CONTROL, VARIABLE SPEED		
7	REARRANGE COMPONENTS	05-FEB-2004	DM	PRODUCT LINE:			SIZE:	ROUTE:	DWG. NO.:
8	CHG JUMPER TO 230V POSITION	13-FEB-2004	D.M.	FAB		TST	A	ELECT	144046
9	CHG CNTL JUMPER, REV POT WIRES	25-FEB-2004	D.M.	REFERENCE			SCALE:	IMAGE MAY BE REDUCED	CODE:
10	CHG BLK WIRE AT FUSE BLOCK TO RED	18-MAR-2004	DM	_____ X _____			1:1	NTS	MM2A

TECHNICAL BULLETIN

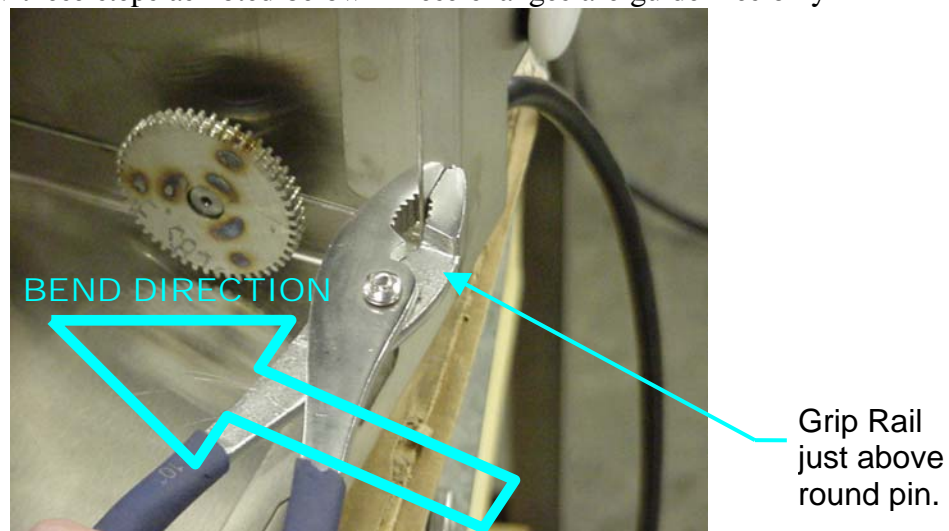
DATE: April 13, 2004

PRODUCT: AUTOTOAST™ MODEL HT18

REASON: CARRIAGE CONVEYOR GEAR DISENGAGING
FROM MOTOR GEAR



Some of the units in the field have been experiencing problems with proper engagement of the conveyor carriage gear and the motor gear. In order to help alleviate this engagement problem please follow these steps as noted below. These changes are guidelines only.



Rail Correction Instruction

- Press the on/off switch, on the controller, to off position. The controller display will read “HI”, unplug the toaster.
- Unlatch and remove the conveyor carriage from the toaster.
- Set the toaster up onto its back feet as you would to clean platen cover sheets.
- Using a pair of Standard Pliers or Channel Lock Pliers bend the rail flange just above the round pin, towards the motor gear. The flange should only be bent slightly, such as the thickness of the metal. **! CAUTION ! OVER BENDING WILL MAKE THE CARRIAGE FIT TOO TIGHT, AND MOTOR MAY NOT RUN!**
- Set the toaster down in its normal operation position and reinstall the carriage to test fit the engagement. With the carriage all the way in, the latch should engage the catch on the front flange. If the latch does not engage without extra force, the flange may have been over bent, if so bend it back down or away from the motor gear slightly until latch engagement is corrected.
- Once engagement is correct, plug the toaster in and press the on/off button on the controller. The conveyor should begin to run normally.

Call Marshall Air Customer Service at 800-722-3474 with questions regarding this issue.