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2M-Z1179 Rev. -- 3/26/97

TOASTSWELL BTM TOASTER

Model BTM





INSTALLATION AND OPERATING INSTRUCTIONS



CAUTION

INSTALLATION

These models are equipped for the voltage and wattage indicated on the nameplate. These units are designed to operate on alternating current (A.C.), two wire single phase service only and are equipped with an approved lead in cord set with a three prong grounding type plug. DO NOT CONNECT TO DIRECT CURRENT (D.C.).

OPERATING PROCEDURE

Each two-slice section in the four-slice model is separately controlled with individual mechanism and operating levers. Set adjustment knob about halfway between "Lighter and Darker." Drop bread in toasting wells. Press down front handle as far as it will go. This automatically lowers the bread, turns on the current and starts the timing. When toast is finished it will pop up and automatically turn off the current. If toast is too dark, move adjustor knob toward "Lighter" and toward "Darker" if toast is too light. Then try it again with two fresh slices of bread. After you once determine the correct setting, no further adjustments are necessary unless different kinds of bread are used.

CHECK LINE CAPACITY 4 SLICE TOASTER

On the 4 slice toaster, adjust each section independently with the other section turned off. After both sections are properly adjusted, and with out changing the adjustments, make toast in both sections at the same time. If it takes longer and if the color of toast is lighter when both sections are operated at the same time, it is conclusive proof that the electric line supplying the current is not heavy enough to carry the load. In such cases larger wires are to be used to supply sufficient current to the toaster.

BREAD RELEASE

Avoid lifting the bread for inspection, while it is toasting. Restarting the toaster will reset the timing cycle and toast may burn. The toaster is

automatic and will pop the bread when toast is finished. The manual bread release is for use in emergencies only.

CLEANING

Keep toaster clean and free of excessive crumbs. To remove crumbs, pull the tray out as far as it will go, brush off crumbs, then push the tray in all the way. Crumb tray must be in place before toasting. If partially opened, it will disturb the proper timing.

ADJUSTMENTS

Should the toaster ever require adjustments or repairs, make certain that the party attempting them knows what he is doing. Never tamper with the thermostat timing mechanism. They are properly adjusted before leaving the factory.

FOR BEST RESULTS USE GOOD BREAD

To make good toast, bread should be at least several days old. Some breads will toast better if dropped in sideways or upside down. Different brands of bread will have various toasting qualities. Very fresh or moist bread of uneven texture will not make good toast under any circumstances. Bread that is not sliced evenly will not make good toast Avoid use of small unevenly cut slices. When using different kinds of bread, it may be necessary to change the timer adjustment to get the desired color. Sliced bread that has been opened will be dryer on one side than the other and it will toast darker on the dryer side. DO NOT USE FOREIGN OBJECTS TO REMOVE THE TOAST. Doing so may cause damage to the elements.

MAINTENANCE AND REPAIRS

Contact the factory or one of its representatives or a local service company for service or maintenance if required.

RETAIN THIS MANUAL FOR FUTURE REFERENCE Part No. 2M-Z1179 Rev. -- 3/27/97

TROUBLESHOOTING GUIDE AND PREVENTATIVE MAINTENANCE TO BE BONE ONLY BY A QUALIFIED PERSON. ALWAYS DISCONNECT FROM POWER SUPPLY BEFORE WORKING ON TOASTER.

REMEDY

CAUSE

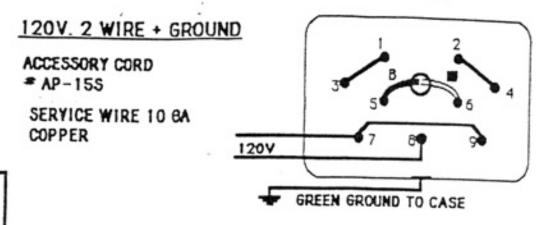
Toaster is too slow.	Overloaded circuit. Not enough power. Voltage too low. Toaster wired for 230V but hooked up to 120V or 208V.	Move to power line heavy enough to carry toaster. If in doubt have Electric Company check your outlet. Check wiring diagram.
No heat when handle pressed down, one or both sides.	Wiring wrong or fuse blown out or main switch not making contact on all 4 contacts. On 208 or 230 heater, heater is burned out.	Check wiring diagram on terminal cover. Check form #T28 to set switch. Replace heater
All elements work but toaster will not pop up.	Shunt switch at point A not set proper. Not set properly at point G. Pop up spring broke.	Check form #T28 to set shunt switch. Check for #T28 to set point G
Handle is hard to push or pops up part way.	Oiless bushing is binding. Bread support bent	Clean guide rod. Straighten bread bread support.

PREVENTATIVE MAINTENANCE

TROUBLE

Pull out crumb tray and wipe clean as needed. Install toaster so liquid or food is not spilled into toaster. No oiling required. Do not remove toast with fork or metal object. Do not butter bread before toasting. NOTICE: Disconnect power supply before repairing.

INSTRUCTIONS FOR MAKING FIELD CONN ECTIONS CAT. BTM-CB OR NBT FOR ALL VOLTAGES USE COPPER WIRE O NLY



CAUTION

IF YOU ARE CHANGING VOLTAGES, PLEASE NOTE IF METAL JUMPERS ARE BETWEEN *1-3 AND 2-4 TERMINALS. ALSO NOTE THE POSITION OF THE BLACK AND WHITE WIRES COMING OUT OF THE CENTER OF THE TERMINAL BOX. THESE WIRES CHANGE POSITION DEPENDING ON THE VOLTAGE.

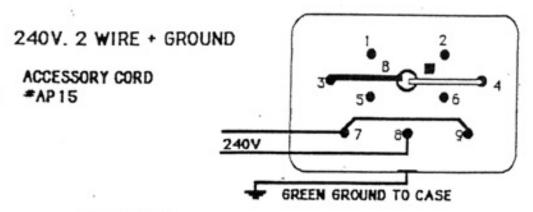
120/240 V. SINGLE PH.

3 WIRE + GROUND

ACCESSORY CORD

AP20

To GREEN GROUND TO CASE



CAUTION READ THIS BEFORE CONNECTING

Connect toaster with 10 GA.copper wire to main switch or fuse box. This toaster draws more amps than the ordinary line will carry. Under load, you must have 115 volts at toaster or it will toast too slow. Have you r Power Company check, if you have difficulty. When this toaster is to be used on a 208 volt circuit, the standard elements furnished with the toaster should be exchanged for 104 volt elements.

GROUNDING

The toaster frame must be grounded. The center or neutral terminal in the Terminal Box (*8) is not grounded to the frame of the toaster. Make sure all connections are tight. Make ground connections to the screw local ted at the bottom of terminal box. Use a seplie arated condustor for the ground connection. Do not use toaster neut rail terminal for grounding. Use a 10, 12,or14 ga. line(depending on voltage) all the power book-up.

ELEMENT REPLACEMENT

You can replace any ELEMENT by following these simple instructions:

- 1.) Disconnect toaster from electric power supply.
- 2.) Remove 2 screws on back of toaster that holds the top on.
- Lift up back of top and slide forward and remove top.
- Loosen, but do not remove screw at back, at top of defective element.
- Lift out old element.
- 6.) Put in new element, keeping connection clip to top and back of toaster. This is the same position it was in when removed. Be sure bottom of element is in channel slot at bottom and element is all the way down.
- Retighten screw holding element.
- 8.) Replace top.

TO REPLACE TIME ADJUSTOR KNOB

If you take the time adjustor knob off the threaded shaft or if you install a new timer complete, you must be sure the knob is put back in the correct position. It is done in this sequence:

- Insert the complete timer in the toaster and screw down with three screws, making sure the slot in the threaded shaft fits around, tab in timer bracket.
- With your hand or plyers, turn threaded shaft in counter-clockwise direction until it stops. Do not
 force turn past its natural stopping point. This puts the threaded shaft in "L" or light position.
- 3.) Now put on the time adjustor knob with the pointer on "L" or light side of the stop pin. Push on all the way until it is 3/32" away from the toaster case, then tighten the set screw.

TO REPLACE SLOT ADJUSTOR SHAFT AND KNOB

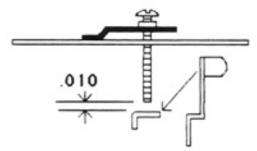
- Screw in shaft until the threaded end just touches the adjustor cam.
- 2.) Put on knob in the most counter clockwise position (wide slot) and tighten knob.

FACTORY ADJUSTMENT SCREW COMPLETE TIMER REPLACEMENT

When replacing the complete timer, you must check the sequence of operation form *T28 to be sure all settings of contacts and catches are correct.

This is the only time the factory adjustment screw may need adjustment.

Fig. *6 Factory adjustment screw



For the correct setting, the factory adjustment screw should just clear the <u>adjustor</u> shoe by .001to .010 when the <u>toaster is cold</u>. If the screw touches the shoe or if it is too far from the shoe when the toaster is cold, then turn the screw to bring into proper adjustment.

TIMING TO LONG OR SHORT AND HEATER REPLACEMENT

With toaster in wound position and dark and light knob set on light, the space 6 should be approx. 7/16 but never more then 1/2 and never less then 3/8. To adjust space 6, you loosen but do not remove screw J and insert end of screwdriver into K and twist to obtain desired setting. If properly set, the timing on lightset setting should be 55 to 75 seconds from a cold start.

NO HEAT SETTING MAIN SWITCH OMT-88

If toaster is wired correctly and heater is not burned out, the trouble may be that the main switch is not making contact with all 4 contacts. Look at figure *5 and note that contact holder L must be parallel with fiberglass H. If not, bend bracket P very slightly in order to make parallel. Do all checking when wound. When in the wound position there should be approx. 1/32 space at B. This shows that there is a little pressure on contacts when wound.