



Microwave Oven

Use and Care Manual

MCO160UW / MCO160UB / MCO160UQ / MCO160S

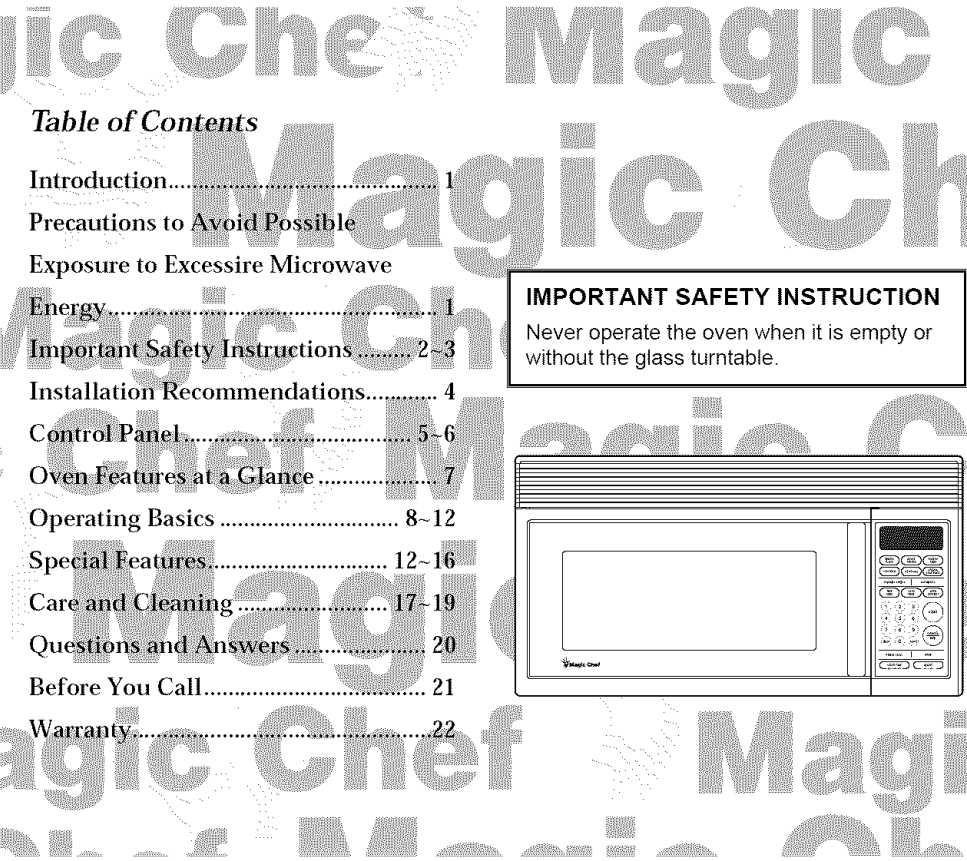


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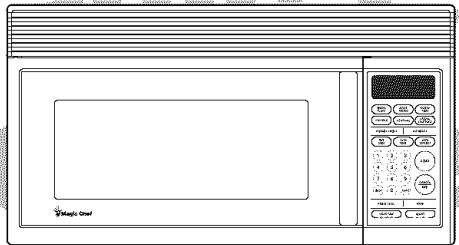
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IMPORTANT SAFETY INSTRUCTION

Never operate the oven when it is empty or without the glass turntable.



Introduction

Congratulations on your purchase of an over-the-range microwave oven. For best results, we suggest reading this guide carefully. You will find instructions on the proper operation and maintenance of your microwave.

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- A. Do not** attempt to operate this oven with the door open since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
- B. Do not** place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.
- C. Do not** operate the oven if it is damaged. It is particularly important that the oven door close properly and that there is no damage to the: (1) door (bent), (2) hinges and latches (broken or loosened), (3) door seals and sealing surfaces.
- D.** The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

IMPORTANT SAFETY INSTRUCTIONS

When using electrical appliances, basic safety precautions should be followed, including the following:

▲ WARNING - To reduce the risk of burns, electric shock, fire, injury to persons or exposure to excessive microwave energy:

1. Read all instructions before using the appliance.
2. Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY" found on page 1.
3. This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" on page 4.
4. Install or locate this appliance in accordance with the provided installation instructions. Do not mount over a sink
5. **This microwave oven is UL listed for installation over electric and gas ranges.**
This over-the-range oven was designed for use over ranges no wider than 30 inches.
6. **For best operation, plug this appliance into its own electrical outlet, to prevent flickering of lights, blowing of fuse or tripping of circuit breaker.**
7. Some products such as whole eggs and sealed containers - for example, closed jars - are able to explode and should not be heated in this oven. In rare instances, poached eggs have been known to explode. Cover poached eggs and allow standing time of one minute before cutting into them.
8. Foods with unbroken outer "skin" such as potatoes, sausages, tomatoes, apples, chicken livers and other giblets, and egg yolks (see previous caution) should be pierced to allow steam to escape during cooking. "Boilable" cooking pouches and tightly closed plastic bags should be slit, pierced or vented.
9. Do not heat, store or use flammable materials in or near the oven. Fumes can create a fire hazard or explosion.
10. Use this appliance only for its intended use as described in this manual. Do not use corrosive chemicals or vapors in this appliance. This type of oven is specifically designed to heat, cook or defrost food. It is not designed for industrial, laboratory or commercial use, it is intended for home use only.
11. As with any appliance, close supervision is necessary when used by children.
12. Do not operate this appliance if it has a damaged cord or plug, if it is not working properly or if it has been damaged or dropped.
13. This appliance should be serviced only by qualified service personnel. Contact nearest authorized service facility for examination, repair or adjustment.
14. Do not cover or block any openings on the appliance.
15. Do not use or store this appliance outdoors. Do not use this product near water - for example, near a kitchen sink, in a wet basement or near a swimming pool, or similar locations.
16. Do not immerse cord or plug in water.
17. Keep cord away from heated surfaces.
18. Do not let cord hang over edge of table or counter.
19. When cleaning surfaces of door and oven that come together on closing the door, use only mild, non-abrasive soaps or detergents applied with a sponge or soft cloth.
20. To reduce the risk of fire in the oven cavity:
 - a. Do not overcook food. Carefully attend appliance when paper, plastic or other combustible materials are placed inside the oven to facilitate cooking. Avoid using recycled paper products. Do not use newspaper or other printed paper in the oven. Such products sometimes contain impurities which could ignite.
 - b. Remove wire twist-ties from paper or plastic bags before placing them in oven.
 - c. If materials inside the oven ignite, keep oven door closed, turn oven off and disconnect the power cord or shut off power at the fuse or circuit breaker panel.
 - d. Do not use the oven for storage. Do not leave paper products, cooking utensils or food in the oven when not in use.
 - e. Do not pop popcorn except in a microwave approved popcorn popper or in a commercial package recommended especially for microwave ovens.
 - f. Do not overcook potatoes. They may dehydrate and catch fire.
 - g. Do not use for drying clothes, linens, newspaper or similar non-food type items.
21. **Do not operate the oven when empty or with an empty utensil to avoid damage to the oven and danger of fire.**
22. Do not lean on the oven door. The door is designed to close tightly and seal properly for safe operation. Leaning on the door may warp or break the hinges.

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IMPORTANT SAFETY INSTRUCTIONS cont.

23. To avoid exposure to dangerous high voltage, **DO NOT REMOVE THE SPLATTER SHIELD** inside the oven cavity.
24. Liquids, such as water, coffee, or tea are able to be overheated beyond the boiling point without appearing to be boiling due to surface tension of the liquid. Visible bubbling or boiling when the container is removed from the microwave oven is not always present. **THIS COULD RESULT IN VERY HOT LIQUIDS SUDDENLY BOILING OVER WHEN A SPOON OR OTHER UTENSIL IS INSERTED INTO THE LIQUID.** To reduce the risk of injury to persons:
 - ① Do not overheat the liquid.
 - ② Stir the liquid both before and halfway through heating it
 - ③ Do not use straight-sided containers with narrow necks.
 - ④ After heating, allow the container to stand in the microwave oven for a short time before removing the container.
 - ⑤ Use extreme care when inserting a spoon or other utensil into the container.
25. **Read and follow specific microwave oven preparation instructions on food packages or containers (especially baby food). Above all, this is a cooking appliance designed to prepare food.**
26. Use only cooking utensils and accessories made for use in the microwave and specifically described in this manual.
27. Microwave oven manufacturers do not recommend deep fat frying or frying in a microwave oven. Hot oil can damage oven parts and utensils and even result in skin burns.
28. Plastic wrap : Use only those types designed for microwave oven use and avoid forming an air-tight seal. Fold back a small corner or cut a small slit to allow steam to escape.
29. Stay near the appliance while it is in use and check cooking progress frequently. Leaving the appliance unattended may result in overcooked food and possibly a fire in your oven.
30. **Foods cooked in liquids** (such as pasta) may tend to boil over more rapidly than foods containing less moisture. Should this occur, refer to the Care and Cleaning section for instructions on how to clean the inside of the oven.
31. Do not use a thermometer in food you are microwaving unless the thermometer is designed or recommended for use in the microwave oven.
32. Plastic cookware designed for microwave cooking is very useful, but should be used carefully. Even microwave-safe plastic may not be as tolerant of overcooking conditions as are glass or ceramic materials and may soften or char if subjected to short periods of overcooking. In longer exposures to overcooking, the food and cookware could ignite. For these reasons:1) Use microwave-safe plastics only and use them in strict compliance with the cookware manufacturer's recommendations. 2) Do not subject empty cookware to microwaving. 3) Do not permit children to use plastic cookware without complete supervision.
33. **Do not store anything directly on top of the microwave oven surface when the oven is in operation.**
34. TV dinners may be microwaved in foil trays less than 3/4" deep; remove top foil cover and return tray to box. When using metal in microwave oven, keep metal at least 1 inch away from the sides of the oven.
35. Do not defrost frozen beverages in narrow necked bottles.
36. Cookware may become hot because of heat transferred from the heated food. Potholders may be needed to handle the cookware.
37. Do not try to melt paraffin wax in the oven. Paraffin wax will not melt in a microwave oven because it allows microwaves to pass through it.
38. Never use sharp-edged utensils in or near the oven.
39. Hot foods and steam can cause burns. Be careful when opening containers of hot food, including popcorn bags, cooking pouches and boxes. To prevent possible injury, direct steam away from hands and face.
40. Clean the vent hood often. Do not allow grease to build up on the hood or the filter.
41. Use care when cleaning the vent hood filter. Corrosive cleaning agents, such as lye-based oven cleaners, may damage the filter.
42. When flaming foods are under the hood, **turn the fan off.** The fan, if operating may spread the flame.

SAVE THESE INSTRUCTIONS

Installation Recommendations

Remove all packing materials both outside and inside the oven before using the oven. The oven requires free movement of air for proper operation. Do NOT block air vents located by the top air grill and underneath the oven.

Grounding Instructions

This appliance must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into a 120v, 15amp. outlet that is properly installed and grounded.

▲ WARNING - Improper use of the grounding plug can result in a risk of electric shock.

Consult a qualified electrician or service technician if the grounding instructions are not completely understood or if doubt exists as to whether the appliance is properly grounded.

Where standard two-prong wall receptacle is encountered, it is your personal responsibility and obligation to have it replaced with a properly grounded three-prong wall receptacle.

Do not under any circumstance cut or remove the third (ground) prong from the power cord. Do not use an adapter plug with this appliance. See pages 1 and 2 of the Installation Manual for acceptable extension cord specifications.

Interference Note

Microwave ovens generate radio frequency energy during operation and if not installed properly may cause interference to radio and television reception. You can determine if this unit is causing interference by turning it on and off while the interference is occurring. If interference occurs, it may be corrected by one or more of the following measures:

- ◆ clean door and seal surfaces of the oven;
- ◆ reorient the television or radio receiving antenna;
- ◆ the oven with respect to the television or radio receiver, and/or
- ◆ Plug the oven into a different outlet so that it and the television or radio receiver are on different circuits.

If the interference persists, you may want to consult an experienced radio/television technician for additional information.

Automatic Fan Protection feature

Cooking appliances installed under the microwave oven may, under some heavy usage conditions, cause temperatures high enough to overheat some internal parts of the microwave oven.

To prevent overheating from taking place, the exhaust fan is designed to automatically turn on at a low speed if

excessive temperatures occur. Should this happen, the fan cannot be manually turned off, but it will automatically turn off when the internal parts have cooled. The fan may stay on for up to an hour after the range and microwave oven controls have been turned off.

Microwaving Tips

- ◆ Make sure all cookware used in your microwave oven is suitable for microwaving. Most glass cooking dishes, measuring cups, custard cups, pottery or china dinnerware, which does not have metallic trim or glaze with metallic sheen, can be used.
- ◆ If you are not sure if a dish is microwave-safe, use this test: Place in the oven the dish you are testing and a glass measuring cup filled with one cup of water. Set the measuring cup either in or next to the dish.

Microwave 1 minute at high. If the dish heats, it should not be used for microwaving. If the dish remains cool and only the water in the cup heats, then the dish is microwave-safe.

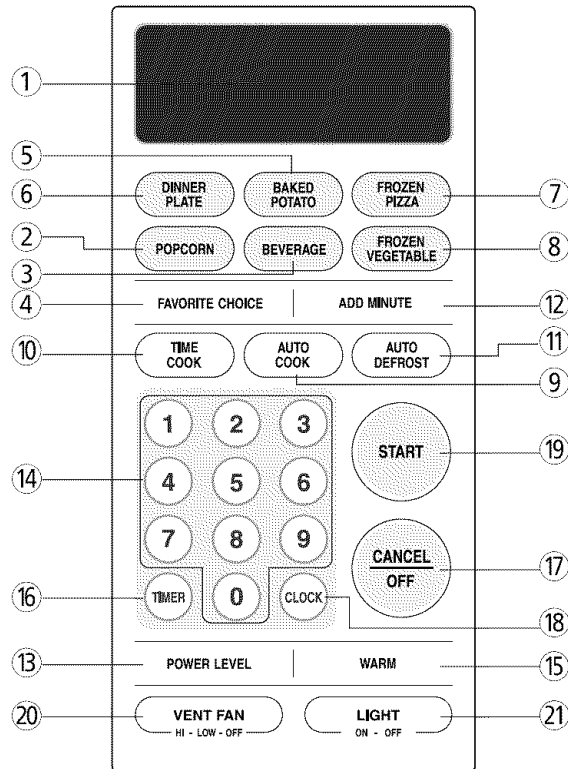
- ◆ Paper towels, waxed paper and plastic wrap can be used to cover dishes in order to retain moisture and prevent spattering. Be sure to vent plastic wrap so steam can escape.

Touch Control Panel

The Touch Control Panel allows you to set the oven controls with the touch of a finger. It's designed to be easy to use and understand.

1. **DISPLAY** - Displays time of day, time or temperature during cooking functions, power level being used, cooking mode and instructions.
2. **POPCORN** - Touch this pad to cook prepackaged microwave popcorn weighing 3.5 ounces. The oven will start automatically. (Page 12)
3. **BEVERAGE** - Touch this pad to reheat a beverage. The oven will start automatically. (Page 13)
4. **FAVORITE CHOICE** - Touch this pad to recall three cooking instructions placed in memory and to program sound level of signals, scroll speed and disable clock display. (Page 13)
5. **BAKED POTATO** - Touch this pad to cook 1-4 potatoes. The oven will start automatically. (Page 13)
6. **DINNER PLATE** - Touch this pad to reheat a dinner plate full of chilled leftovers. (Page 13)
7. **FROZEN PIZZA** - Touch this pad to heat frozen pizza. The oven will start automatically. (Page 13)
8. **FROZEN VEGETABLE** - Touch this pad to cook frozen vegetables. The oven will start automatically. (Page 14)
9. **AUTO COOK** - Will automatically compute the microwave power and cook time. Refer to Auto Cook Guide. (Page 14)
 - ◆ Power Level 10 (High) is automatic but lower heat levels may be programmed. (Page 8)
10. **TIME COOK** - Microwave for a selected amount of time.
 - ◆ Power Level 10 (High) is automatic but lower heat levels may be programmed. (Page 8)
11. **AUTO DEFROST** - Touch this pad and enter food weight, then START. The oven automatically sets power levels and defrosting time. (Page 10)
12. **ADD MINUTE** - Touch this pad for 1 minute of cook time, to add 1 minute of cook time as the timer is counting down or for an "instant on" for 1 minute. (Page 9)
13. **POWER LEVEL** - Touch this pad if you want to change from automatic Power Level 10 (High) for cooking. (Page 8-9)
14. **NUMBER PADS** - Touch these pads to enter cooking time, defrosting time, time of day, power level or food weights for Auto Defrost.
15. **WARM** - Touch this pad and safely keep food warm for up to 30 minutes. (Page 13)
16. **TIMER** - This feature uses no microwave energy. It functions as a kitchen timer, as a holding period after defrost or as a delay timer before time cooking. (Page 9)
17. **CANCEL/OFF** - When touched once, it pauses the oven operation. When touched twice, it shuts off the oven and erases all settings (except time of day).
18. **CLOCK** - Touch this pad to enter time of day or check time of day while microwaving. (Page 8)
19. **START** - After all selections are made, touch this pad to start the oven or timer.
20. **VENT FAN** - Touch this pad if you want to know the feature of key pad on the control panel. (Page 16)
21. **LIGHT** - Touch this pad to turn on or off the light. (Page 16)

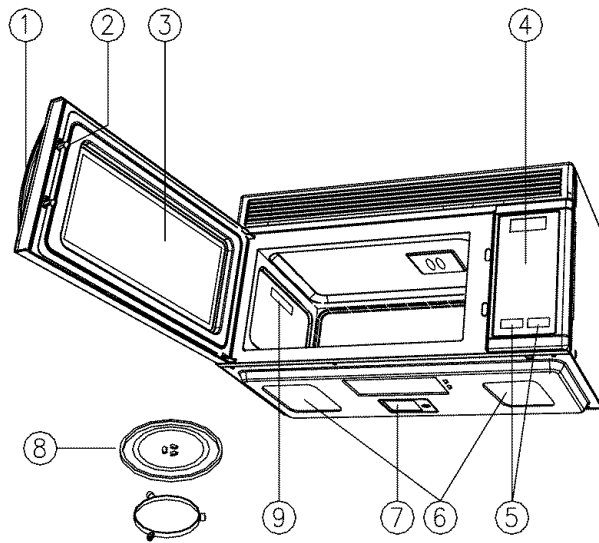
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- ◆ Each time a pad is touched, a BEEP will sound.
- ◆ When **CANCEL/OFF Pad** is touched during oven operation, the oven will stop, however, all programmed information is retained. To clear all information, touch the **CANCEL/OFF Pad** again.

NOTE: Styling and features may differ slightly depending on model.

Oven Features at a Glance



1. **DOOR HANDLE** - Pull to open door. Door must be securely latched for oven to operate.
2. **DOOR LATCHES**
3. **WINDOW with METAL SHIELD** - Screen allows cooking to be viewed while keeping microwaves confined in oven.
4. **TOUCH CONTROL PANEL and DIGITAL DISPLAY** - For detailed information on each feature, see Touch Control Panel section, page 5.
5. **HOOD CONTROLS**
Vent Fan - Press High, Low or Off
Light - Press On or Off
6. **GREASE FILTERS**
7. **COOKTOP LIGHT**
8. **TURNTABLE** - Composed of glass tray and roller guide. The roller guide is placed first in the bottom of the microwave and supports the glass tray. **Both parts must be in place when using the microwave oven.**
9. **DATA PLATE** - Located on the inside wall of the microwave oven.

Operating Basics

Time-of-Day Clock

Basic Instructions

1. Touch the **CLOCK Pad**.
2. Set the time of day by touching the appropriate numbers.
3. Touch the **CLOCK PAD**.

- ◆ After plugging in the oven or after a power outage, “88:88” will be displayed. Touch the **CANCEL/OFF PAD** and set the clock following the directions above.
- ◆ The “time-of-day” clock is a 12 hour clock.
- ◆ If set, the time of day will always be displayed when no other cooking function is being used.
- ◆ The time of day returns to the current time when the oven turns off.

Time Cook/Power Level

Basic Instructions

1. Touch the **TIME COOK Pad**.
2. Enter the cooking time by using the number pads.

For example, for 5 minutes touch number 5,0,0. The selected time will be displayed.

3. Touch the **START Pad** again.
 - ◆ The cooking time will appear in the Display window.
 - ◆ The oven will start cooking and time countdown will begin.
 - ◆ The oven will stop automatically when the time is done and beep three times.
 - ◆ When the cook time ends, “End” appears in the Display.

- ◆ Start with the shortest recommended time and add more time as needed.
- ◆ Check the food as it cooks.
- ◆ The oven door can be opened any time during operation. It will automatically stop and maintain the time setting until the door is closed and the **START Pad** is touched again.
- ◆ If the **START Pad** is touched and the oven does not operate, check the area between the door and door seal for obstructions. The oven will not start until the door is completely closed.

Note . . .

- ◆ *Full power is automatic. If you wish to use a different power level, touch the **POWER LEVEL Pad** before touching **START Pad**. Enter the power level desired by touching the appropriate number pad. The selected power level will be displayed. (See **Cooking Guide on page 9**).*

Operating Basics

Power Level Cooking Guide

The power levels on your microwave oven can be compared to the surface units on a range. High (power level 10) or full power is the fastest way to cook and gives you 100% power.

Each power level gives you microwave energy for a certain percent of time, for example, power level 7 is microwave energy 70% of the time. Most of your cooking will be done on High (Power Level 10). a lower setting will cook more evenly and with less attention given to stirring or rotating the food. Some foods may have better flavor, texture or appearance if one of the lower settings is used. You may wish to use a lower power level when cooking foods that have a tendency to boil over, such as scalloped potatoes. Cooking times will increase as power level decreases.

Power Level	Best Uses
High 10	Fish, bacon, vegetables, boiling liquids.
Medium 7	Gentle cooking of meat and Poultry, baking casseroles and reheating.
Medium 5	Slow cooking and tenderizing for stews and less tender cuts of meat.
Low 3	Defrosting, simmering, delicate sauces.
Warm 1	Keeping food warm without overcooking, softening butter.

Add Minute

The **ADD MINUTE Pad** provides a convenient way to heat foods at full power with one touch of a pad or add an extra minute to your cooking cycle while in progress.

The microwave starts automatically after the pad is touched.

ADD MINUTE cannot be used with **ONE TOUCH COOKING FUNCTIONS, AUTO DEFROST, TIMER, FAVORITE CHOICE** or **WARM**. Each time the pad is touched the oven will add 1 minute to the time up to 99 minutes.

Timer

Basic Instructions

1. Touch the **TIMER Pad**.
2. Enter desired time. The **Display** will show the selected time.
3. Touch the **START Pad**.

- ◆ The timer can be programmed up to 99 minutes and 99 seconds.
- ◆ Three beeps signal the end of the timing operation.
- ◆ To stop the timer once it has started, touch the **CLEAR** pad. Display will return to the time of day.
- ◆ The timer cannot be set while cooking.
- ◆ The door must be shut for the timer to operate.

Auto Defrost

Use the defrost setting for defrosting meats, poultry and fish from 0.1 pounds to 6.0 pounds.

Basic Instructions

- ◆ Touch the **AUTO DEFROST Pad** once for meat. "dF-1" Will be displayed.
 - ◆ Touch the **AUTO DEFROST Pad** twice for poultry. "dF-2" will be displayed.
 - ◆ Touch the **AUTO DEFROST Pad** three times for fish. "dF-3" will be displayed.
- Touch number pads to enter the weight. *The defrosting time and power levels are automatically calculated.
- Touch the **START Pad**.

* Enter the weight in pounds and tenths of a pound. See Conversion Chart below.

- ◆ During defrosting, the oven will beep a series of short beeps to signal that the food needs to be turned or rearranged.
Oven will continue operation if food is not turned or rearranged. Three beeps signal the end of defrosting. "End" appears in the **Display**.
- ◆ During defrosting meat and fish, the food needs to be turned or rearranged twice. During defrosting poultry, the food needs to be turned or rearranged once.

Conversion Chart

If weight is in ounces-	then weight is converted to tenths-of-a-pound.
1 to 2-oz.	0.1
3 to 4-oz.	0.2
5-oz.	0.3
6 to 7-oz.	0.4
8-oz.	0.5
9 to 10-oz.	0.6
11 to 12-oz.	0.7
13-oz.	0.8
14 to 15-oz.	0.9

Defrost by Time

Basic Instructions

- Touch the **TIMER Pad**.
- Enter defrosting time desired.
- Touch the **POWER LEVEL Pad**.
- Touch **NUMBER "3" Pad**.
- Touch the **START Pad**.

Note . . .

- ◆ See page 11 for additional defrosting tips for both Auto and Time Defrost.

Operating Basics

Defrost by Time Guide (Power Level 3)

Items and Weight Time	Defrosting Time	Standing	Procedures and Techniques
Beef			
Ground Beef/1 lb.	10-12 min.	5 min.	Break apart and remove thawed portions with fork.
Ground Beef/2 lbs.	18-20 min.	8-12 min.	Break apart and remove thawed portions with fork.
Beef Roast, boneless/3 lbs.	26-28 min.	7-10 min.	Turn over part way. Shield ends or thinner areas with foil.
Steaks/1" thick	7-8 min.	5-7 min.	Separate and rearrange once.
Pork			
Pork Roast, boneless/3 lbs.	20-22 min.	10-15 min.	Turn over part way. shield ends or thinner areas with foil.
Pork Chops/1 lb	7-8 min.	5-7 min.	Separate and rearrange once.
Ground Pork/1 lb.	10-12 min.	5-7 min.	Break apart and remove thawed portions with fork.
Spare ribs/1 1/2 lbs.	15-16 min.	5-7 min.	Turn meat over and rearrange, separate once.
Poultry			
Whole Chicken/3 lbs.	20-22 min.	10-15 min.	Turn chicken over. shield wing tips, leg ends and breast areas with foil. Breast side down.
Chicken Breasts boneless/1 lb.	7-8 min.	5-7 min.	Separate and rearrange once.
Chicken Thighs/2 lbs.	18-23 min.	8-13 min.	Separate and rearrange once.
Fish			
Fish Fillets/1 lb.	10-11 min.	5-7 min.	Separate and rearrange once. Shield as needed.

General Defrosting Tips

- Do not defrost covered meat. Covering might allow cooking to take place. Always remove outer wrap and tray. Place food on a microwave-safe rack in a dish.
- Begin defrosting whole poultry breast-side-down. Begin defrosting roasts fat-side-down.
- The shape of the package alters the defrosting time. Shallow rectangular shapes defrost more quickly than a deep block.
- Auto Defrost is programmed for specific weights. Defrost results will be affected if you enter an incorrect weight.
- Auto Defrost is programmed for frozen food at 0° F. If food is stored at a higher temperature, expect shorter defrost times.
- After 1/3 of the defrost time has elapsed, check the food. You may wish to turn over, break apart, rearrange or remove thawed portions of the food.
- During Auto Defrost, the oven will prompt you to turn the food over.** At this point, open oven door and check the food. Follow the techniques listed below for optimum defrost results. Then, close oven door, touch the START Pad to complete defrosting.
 - ◆ **Turn Over** : Roast, ribs, whole poultry, turkey breasts, hot dogs, sausages, steaks, or chops.
 - ◆ **Rearrange** : Break apart or separate steaks, chops, hamburger patties, ground meat, chicken or seafood pieces, chunks of meat such as stew beef.
 - ◆ **Shield** : Use small strips of aluminum foil to protect thin areas or edges of unevenly shaped foods such as chicken wings. To prevent arching, do not allow foil to come within 1-inch of oven walls or door.
 - ◆ **Remove** : To prevent cooking, thawed portions should be removed from the oven at this point. This may shorten defrost time for foods weighing less than 3-lbs.
- After defrosting, allow food to stand 5 to 10 minutes if there are any icy areas. If large solid roasts, such as sirloin tip or rump roasts, are not completely thawed after standing, return roast to oven and program **Auto Defrost** for 1 lb.

Two Stage Cooking

This feature lets you program two sequential operations such as defrosting and cooking or cooking

using two different power levels. It automatically changes power settings and cooking time.

Basic Instructions

1. Touch the **TIME COOK Pad**.
2. Touch the appropriate number pads to enter the cooking time. The selected time will be displayed.
3. Touch the **POWER LEVEL Pad**.
4. Touch the number pad for the power level you desire. The selected power level will be displayed.
5. Touch the **TIME COOK Pad** again.
6. Touch the appropriate number pads to enter the cooking time for the second stage of cooking. The selected time will be displayed.
7. Touch the **POWER LEVEL Pad**.
8. Touch the number pad for the power level you desire. The selected power level will be displayed.
9. Touch the **START Pad**.

Special Features

Popcorn

Basic Instructions

Touch the **POPCORN Pad** once for 3.5 oz. package. "3.5" will be displayed.

- ◆ The **POPCORN Pad** has been automatically set for the correct cook time for a 3.5 oz. bag of popcorn.

- ◆ Listen as the popcorn pops and stop the microwave when the popping slows down to 3 seconds apart.
- ◆ Do not try to repop unpopped kernels or reuse a bag.
- ◆ Pop only one package at a time.

CAUTION: If prepackaged popcorn is a different weight than the recommended weight, do not use the **POPCORN Pad**. Inadequate popping or a fire may occur. Follow manufacturer's instructions.

CAUTION: Do not place bag directly on the turntable tray, place bag on microwavable dish when cooking.

Special Features

Dinner Plate

Basic Instructions

1. Touch the **DINNER PLATE Pad**.
2. The **Display** will show "12".

- ◆ The programmed time (2:40) will show in the **Display**.
- ◆ Place meat and dense vegetables to the outside of the plate.
- ◆ Place delicate foods in the center of the plate.
- ◆ Cover the plate with wax paper to hold steam around most foods except rare meats or vegetables with crisp exteriors.

Frozen Pizza

Basic Instructions

1. Touch the **FROZEN PIZZA Pad**.
2. The **Display** will show "8".

- ◆ The programmed time (3:00) will show in the **Display**.
- ◆ Cook only one pizza at a time.
- ◆ Follow manufacturer's directions.
- ◆ Use only frozen pizza labeled microwaveable.
- ◆ If cheese pizza does not melt sufficiently, cook a few seconds longer.

Beverage

Basic Instructions

1. Touch the **BEVERAGE Pad** once for 1 cup (7 oz.)/mug. The **Display** will show "1CUP".
2. Touch the **BEVERAGE Pad** twice for 2 cups (14 oz.)/mugs. The **Display** will show "2CUP".
3. Touch the **BEVERAGE Pad** three times for 3 cups (21 oz.)/mugs. The **Display** will show "3CUP".

Baked Potato

Basic Instructions

1. Touch the **BAKED POTATO Pad**:
 - ◆ once for 1 medium potato (7 oz.)
 - ◆ twice for 2 medium potatoes (14 oz.)
 - ◆ three times for 3 medium potatoes (21 oz.)
 - ◆ four times for 4 medium potatoes (28 oz.)
- ◆ The **Display** will show "1 EA", "2 EA", "3 EA" or "4 EA"

Warm

Basic Instructions

1. Touch the **WARM Pad**. The **Display** will show "HEAT".
2. Touch the **START Pad**.

- ◆ The microwave oven will safety keep cooked foods warm for up to 30 minutes.
- ◆ Opening the door or touching the **CANCEL/OFF Pad** cancels the **WARM** setting.
- ◆ Foods that were covered during cooking should be covered during warming.
- ◆ Complete meals on a dinner plate should be covered.

Favorite Choice

To Program and Change Favorite choice Setting:

1. Touch the **TIME COOK Pad**. Enter cooking time.
2. Touch the **POWER LEVEL Pad**.
3. Enter power level. Example "5" for 50% power level.
4. Touch the **FAVORITE CHOICE Pad**.
5. Touch the **START Pad** to place in memory.

When a program has been entered, "SAVE" will appear in the **Display** to let you know that the program has been entered.

NOTE: Repeat steps 1-5 for **FAVORITE CHOICE Programs 2 and 3**.

To Use Favorite Choice:

1. Put food in oven and close door.
2. Touch **FAVORITE CHOICE Pad** "FC-1" will appear in the **Display**.
 - ◆ To select program 2 or 3 press **FAVORITE CHOICE Pad** until desired program number appears in the **Display**.
3. Touch the **START Pad**.

To Program Favorite Choice Signal Sound, and Clock Display:

Touch **FAVORITE CHOICE** Pad four times “Opt” will be displayed.

To Change Signal Sound:

- ◆ Touch number pad 1. “On” will be displayed.
- ◆ Touch number pad 2. “OFF” will be displayed and “MUTE” indicator will be lighted. The buzzer will not be operated.

To Turn Clock Display On/Off:

- ◆ Touch number pad 3. After “On” is displayed for 2 seconds, the time of day will be displayed.
- ◆ Touch number pad 4. After “OFF” is displayed for 2 seconds, the display will go blank.

Frozen Vegetable

Basic Instructions	
1.	Touch the FROZEN VEGETABLE Pad once for 8 oz. frozen vegetable. The Display will show “8”
2.	Touch the FROZEN VEGETABLE Pad twice for 10 oz. frozen vegetable. The Display will show “10”.
3.	Touch the FROZEN VEGETABLE Pad three times for 16 oz. frozen vegetable. The Display will show “16”.
4.	Touch the FROZEN VEGETABLE Pad four times for 20 oz. frozen vegetable. The Display will show “20”.

Auto Cook

Basic Instructions	
1.	Touch the AUTO COOK Pad until the desired food is displayed. *
2.	Touch the number pad indicated on the Cooking Guide for the cooking weight desired.*
3.	Touch the START Pad.

* See the following chart or the *Cooking Guide Label* on the front of the oven cavity.

- ◆ Auto Cook has preset times and power levels for four food categories: Soup, Fresh Vegetables, Muffins and Fish Fillets.
- ◆ The **DISPLAY** counts down the cooking time.

Auto Cook Guide

FOOD	TOUCH AUTO COOK PAD	NUMBER PAD	QUANTITY
Soup	Once	1	8 oz.
		2	16 oz.
		3	24 oz.
		4	32 oz.
Fresh Vegetables	Twice	1	4 oz.
		2	8 oz.
		3	12 oz.
		4	16 oz.
Muffins	Three Times	1	2 ea.
		2	4 ea.
		3	6 ea.
		4	8 ea.
Fish Fillets	Four Times	1	4 oz.
		2	8 oz.
		3	12 oz.
		4	16 oz.

Cooking Tips and Techniques

- ◆ For best results, cover container with plastic wrap and turn back one edge of the wrap to form a 1/2-inch slot where steam can escape.
- ◆ After cooking fresh vegetables, allow 3-5 minutes of stand time before serving. This will allow the food to finish cooking without overcooking.
- ◆ When preparing fresh vegetables, add 1/2 cup of water per 1/2 pound of fresh vegetables.

Special Features

Auto Start

The AUTO START feature allows you to program your oven to begin cooking at a preset time of day - up to a delay of 11 hours and 59 minutes. You can program two sequential operations using two different power levels.

Basic Instructions

1. Touch the **TIME COOK Pad**.
2. Enter the cooking time.
3. Touch the **POWER LEVEL Pad**.
4. Enter the Power level.
5. Touch the **TIME COOK Pad**.
6. Enter the cooking time.
7. Touch the **POWER LEVEL Pad**.
8. Enter the power level.
9. Touch the **CLOCK Pad**.
10. Enter the clock time you want the oven to start.
11. Touch the **START Pad**.

- ◆ Do not use foods containing baking powder or yeast when using **AUTO START**. They will not rise properly.
- ◆ **Warning:** Do not use foods that will spoil while waiting for cooking to start, such as dishes with milk or eggs, cream soups and cooked meats or fish. Any food that has to wait for cooking to start should be very cold or frozen before it is put in the oven. Unfrozen foods should never stand more than two hours before cooking starts. Do not allow food to remain in the oven for more than two hours after end of cooking cycle.

Tips on setting Auto Start:

- ◆ Before setting, check that the correct time of day is displayed.
- ◆ If you hear the fan start when you touch the **START Pad**, you have not set the oven properly. Touch the **CANCEL/OFF Pad** and start over.

Delay Start

The DELAY START feature allows you to program your oven to begin cooking after specific time - up to a delay of 99 minutes 99 seconds. You can program two sequential operations using two different power levels.

Basic Instructions

1. Touch the **TIMER Pad**.
2. Enter desired time you want the oven to delay.
3. Touch the **TIME COOK Pad**.
4. Enter the cooking time.
5. Touch the **POWER LEVEL Pad**.
6. Enter the power level.
7. Touch the **TIME COOK Pad**.
8. Enter the cooking time.
9. Touch the **POWER LEVEL Pad**.
10. Enter the power level.
11. Touch the **START Pad**.

More or Less Time Adjustment

You may increase or decrease any of the pre-set settings for the **ONE TOUCH COOKING FEATURES** except the **SNACK** feature if you prefer more or less cooking time.

To Adjust the Pre-set Settings:

1. Touch the **POWER LEVEL Pad** once to increase the time by 20 seconds or twice to decrease the time by 20 seconds.
2. Touch the desired **ONE TOUCH COOKING Pad**.

Control Lockout

The oven operation can be locked to prevent the microwave from accidentally being turned on. All oven functions can be locked.

To Set:

Touch and hold the **CANCEL/OFF** Pad for three seconds. The Display shows “Loc” and the oven beeps.

To Cancel:

Touch and hold the **CANCEL/OFF** Pad for three seconds. “Loc” disappears from the **Display** and the oven beeps.

Using the Vent Fan

You can control the 2-speed fan by touching the **VENT FAN** Pad.

Basic Instructions

1. Touch the **VENT FAN** Pad once for **HIGH** speed.
The Display will be “**HIGH**”.
2. Touch the **VENT FAN** Pad twice for **LOW** speed.
The Display will be “**LOW**”.
3. Touch the **VENT FAN** Pad three times for turning vent fan off.
The Display will be “**OFF**”.

To Set Fan to Run for a Specific Time:

1. Start fan by touching the **VENT FAN** Pad.
2. Program run time.
 - ◆ Touch the **TIMER** Pad and hold for 3 seconds.
3. Enter desired time.
4. Touch the **START** Pad.

To Cancel Timer:

- ◆ Touch **CANCEL/OFF** Pad.

Note . . .

- ◆ Canceling the timer will cause the timer to shut off; however, canceling the timer will not cancel the fan. The fan will continue to operate until turned off.

Using the Cooktop Light

You can control the light by touching the **LIGHT** Pad.

Basic Instructions

1. Touch the **LIGHT** Pad once for turning the cooktop light on.
The Display will scroll “**ON LIGHT**”.
 2. Touch the **LIGHT** Pad twice for turning the light off. The Display will be “**OFF**”.
- ◆ If there is no user input for 10 hours, cooktop light and vent fan will turn off automatically to save energy.

Care and Cleaning

Microwave Oven Interior

The oven interior should be cleaned after each use with a damp cloth to keep it free from grease and soil buildup. Stubborn soils can be removed with a plastic scrub pad. When cleaning interior surfaces and surfaces of door and oven that come together when the door is closed, use only mild, non-abrasive soaps or detergents applied with a sponge or soft cloth. Odors can be eliminated from the inside of the oven by boiling a solution of one cup of water and several tablespoons of lemon juice in the oven for 5-7 minutes. This also helps loosen any dried soil in the oven. Wipe off excess moisture after use.

Note . . .

- ◆ **Do not** spray or pour liquid cleansers directly onto a surface. Spray or pour cleanser onto a cloth or sponge and then clean.
- ◆ **Do not** use abrasive cleaners, oven cleaners, abrasive cleaning pads or steel wool, as they can scratch or dull oven surfaces.
- ◆ **Do not** remove or insert knife around the stirrer cover to clean, it may damage the cover or affect the cooking performance of your oven.

Oven Bottom

Wash oven bottom with hot sudsy water, rinse and dry. Do not use excessive amounts of water when cleaning the oven, especially around the turntable. Do not allow water or cleaning agents to seep into turntable gears located underneath.

Glass Tray/Turntable

Allow to cool before removing and cleaning. Wash in soapy water or dishwasher.

Roller Guide

Clean frequently to prevent excessive noise. Wash in soapy water or dishwasher.

Oven Exterior

Wipe the outside of your oven with a soapy cloth, rinse and dry. Do not use abrasive cleaners. They may scratch the surface.

Light Compartment

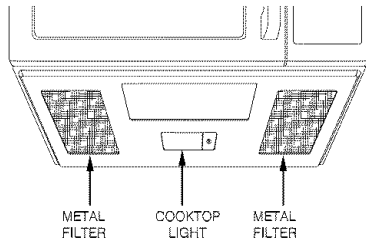
Clean off the grease and dust on the light compartment cover on the bottom side of the microwave oven often with warm water and detergent.

Control Panel

Wipe with a damp cloth. Dry. Do not spray cleaners directly on panel. Spray cleaners on cloth and then wipe.

The Exhaust Feature

The exhaust hood feature on your microwave oven is equipped with two metal filters which collect grease. When the fan is operating, air is drawn up through the filters and is then discharged through the venting to the outside or through the charcoal filters if not vented to the outside.

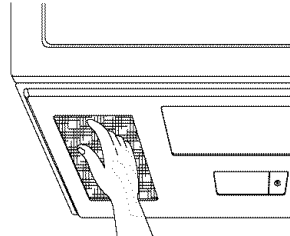


Reusable Grease Filters

The reusable grease filters should be cleaned at least once a month. Never operate the microwave without the filters in place. In situations where flaming might occur on surfaces below the hood, filters will stop the entry of flames into the unit.

To Remove Grease Filter

To remove grease filter, grasp the “finger hold” on the filter and slide to the rear. Then pull filter downward and to the left. The filter will drop out.



To clean Grease Filter

To clean grease filters, soak and then agitate filter in solution of hot water and detergent. Do not use ammonia or ammonia products because they will darken the metal. Light brushing can be used to remove embedded dirt. Rinse, shake and remove moisture before replacing.

To Replace Grease Filter

To replace grease filter, slide the filter in the frame slot on the right of the opening. Pull filter upward and to the left to lock into place.

Care and Cleaning

Light Bulb Replacement

Cooktop Light

To replace the combination cooktop light/night light:

1. Disconnect power at main fuse or circuit breaker or pull plug.
2. Remove screw on right side of light compartment cover and lower cover until it stops. (See Figures 1 and 2.)
3. Gently unscrew the bulb(s). Be sure bulb(s) to be replaced are cool before removing.
4. Replace with 30-watt incandescent bulb(s) available from your authorized dealer. High intensity 30-watt bulb(s) which are available in supermarkets and hardware stores, may also be used for replacements.
5. Raise light compartment cover and replace screw.
6. Connect electrical power to microwave oven.

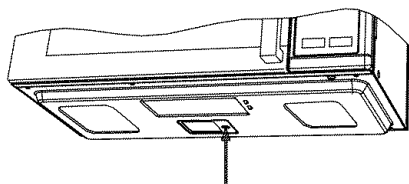


FIGURE 1

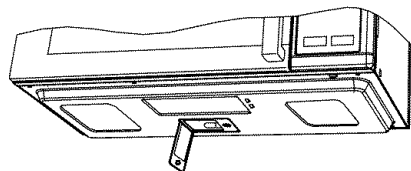


FIGURE 2

Oven Light

To replace oven light:

1. Disconnect power at main fuse or circuit breaker or pull plug.
2. Remove the top grill by taking out the 2 screws that hold it in place. (See Figures 3.)
3. Remove a screw (1) for lamp over. (See Figure 4.)
4. Pull out the Lamp cover. (See Figure 4.)
5. Replace the light bulb with a 30-watt bulb.
6. Replace light housing to original position
7. Replace lamp cover and secure it with the screw (1).
8. Replace top grill and secure with screws.
9. Connect electrical power.

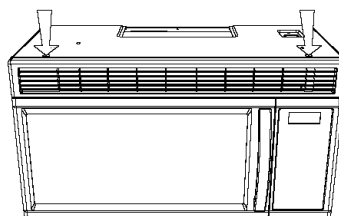


FIGURE 3

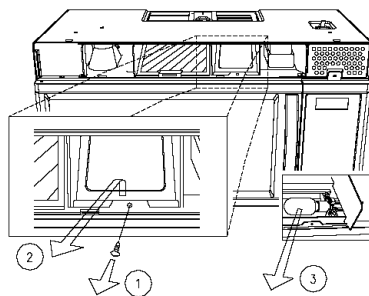


FIGURE 4

Common Questions and Answers

Q & A

Q. Can I open the door when the oven is operating?

A. The door can be opened anytime during the cooking operation. The oven will automatically stop cooking and the time setting will maintain until the door is closed and the **START Pad** is touched.

Q. What causes the oven interior light and display to dim when using a Variable Power Level?

A. This is normal and indicates the oven is operating and cycling properly.

Q. Why does steam and/or vapor escape around the door and moisture droplets form on the inside of the oven door?

A. This is normal occurrence - as food cooks, steam is given off.

Q. What do the various beeps mean?

A. Short beep = any pad is touched.

Three short beeps = incorrect entry.

One long beep = oven plugged in.

Three long beeps = end of cooking (microwave will turn off).

Series of three short beeps = check food to see if turning or rearranging is needed.

Q. Can the oven be used with the glass tray or roller guide removed?

A. No. Both the glass tray and roller guide must always be used in the oven when cooking.

All these things are normal with your microwave oven.

- ◆ Steam or vapor escaping from around the door.
- ◆ Light reflection around the door or outer case.
- ◆ Dimming oven light and change in blower sound may occur while operating at power levels other than high.
- ◆ Dull thumping sound while oven is operating.

Charcoal Filter Kit

There is a recirculating charcoal filter kit included for models that are not vented to the outside. See installation guide for details.

Before You Call

Check the following to be sure a service call is necessary:

If nothing on the oven operates:

- ◆ check for a blown circuit fuse or a tripped main circuit breaker.
- ◆ check if oven is properly connected to electric circuit in house.
- ◆ check that controls are set properly.
- ◆ check that the cooking time is set.

If the oven interior light does not work:

- ◆ The light bulb may be loose or defective. See page 20 or call a qualified servicer.

If oven will not cook:

- ◆ check that control panel was programmed correctly.
- ◆ check that door is firmly closed.
- ◆ check that **START Pad** was touched.
- ◆ **Auto Start** may have been set.
- ◆ the **Control Lockout** may have been set
- ◆ check the area between the door and seal for obstructions.

If oven takes longer than normal to cook or cooks too rapidly:

- ◆ be sure the **Power Level** is programmed properly.
- ◆ check instructions on food density, etc.
- ◆ verify that voltage to the microwave oven is not low.

If the time-of-day clock does not always keep correct time:

- ◆ check that the power cord is fully inserted into the outlet receptacle.
- ◆ check that the oven is properly grounded.
- ◆ try plugging the oven into an outlet on a separate electrical circuit.

If oven floor or glass tray are hot:

- ◆ this is normal. The floor is absorbing heat from the food.

If the interior of oven collects moisture:

- ◆ this is normal. Food gives off moisture when cooking and the steam collects on the door and the oven surface. Wipe off excess moisture from oven after each use.

If food cooks unevenly:

- ◆ refer to your recipe for proper cooking procedures.
- ◆ be sure food is evenly shaped.
- ◆ be sure food is completely defrosted before cooking.
- ◆ check placement of aluminum strips used to prevent overcooking.

If food is undercooked:

- ◆ check recipe to be sure all directions (amount, time, and power levels) were correctly followed.
- ◆ check household voltage.
- ◆ try plugging the oven into an outlet on a separate electrical circuit.
- ◆ be sure food was completely defrosted before cooking.

If food is overcooked:

- ◆ check recipe to be sure all directions (amount, time, and power levels) were correctly followed.
- ◆ the initial temperature of food may have been higher than normal.

If arcing (sparks) occur:

- ◆ be sure microwave-safe dishes were used.
- ◆ be sure wire twist ties were not used.
- ◆ be sure oven was not operated when empty.

If the display shows a time counting down but the oven is not cooking:

- ◆ check that door is firmly closed.



Microwave Oven Warranty

Daewoo Electronics America,inc. warrants each new Microwave Oven to be free from defects in material and workmanship and agrees to remedy any such defect or to furnish a new part(s) (at the company's option) for any part(s) of the unit that has failed during the warranty period. Parts and labor expenses are covered on this unit for a period of one year after the date of purchase. In addition Daewoo Electronics America,inc. warrants the Magnetron (parts only) to be free from defects in material and workmanship for a period of 8 years. The consumer is responsible for all labor and transportation expenses related to the diagnosis and replacement of the Magnetron after the initial one- year warranty expires. If in the event the unit requires replacement or refund under the terms of this warranty the consumer is responsible for all transportation expenses to return the unit to our factory prior to receiving a replacement unit or refund. **A copy of the dated sales receipt / invoice is required to receive warranty service.**

This warranty covers appliances in use within the continental United States, Puerto Rico and Hawaii. The warranty does not cover the following:

- Damages due to shipping damage or improper installation.
- Damages due to misuse or abuse.
- Content losses due to failure of the unit.
- Repairs performed by unauthorized service agents.
- Service calls that do not involve defects in material and workmanship such as instruction on proper use of the product or improper installation.
- Replacement or resetting of house fuses or circuit breakers.
- Failure of this product if used for other then its intended purpose.
- Disposal cost of failed units not returned to our factory.
- Any delivery / installation costs incurred as the result of a unit that fails to perform as specified.

This warranty is in lieu of all warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with the sale of this product. Under no circumstances is the consumer permitted to return this unit to the factory without prior written consent from MC Appliance corp.

Model	Parts	Labor	Magnetron (Part Only)	Type of Service
MCO160UW	One-Year	One-Year	Eight Years	In- Home
MCO160UB				
MCO160UQ				
MCO160S				

**For Service or Assistance please call
800 553-4355 or 888 775-0202
Or visit us on the web at www.magicchef-ewave.com**