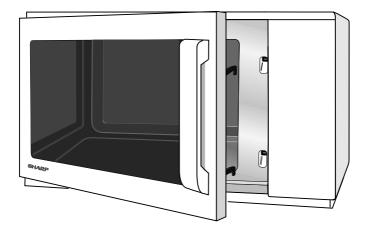
SHARP



Models

R-24AT R-22AT

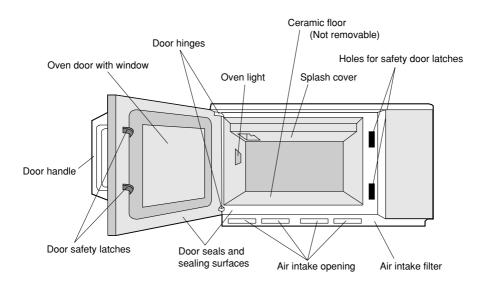
COMMERCIAL MICROWAVE OVEN OPERATION MANUAL

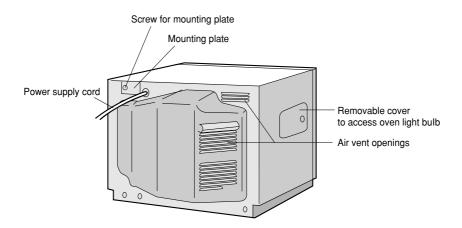
Original Instruction

This operation manual contains important information which you should read carefully before using your microwave oven.

IMPORTANT:There may be a serious risk to health if this operation manual is not followed or if the oven is modified so that it operates with the door open.





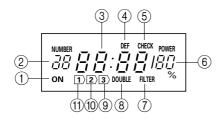


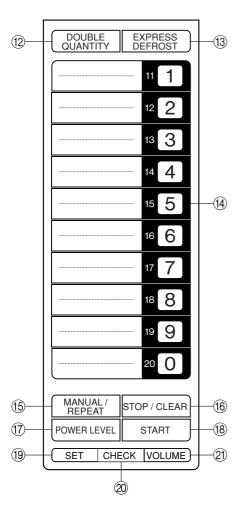
ACCESSORIES:

Check to make sure the following accessories are supplied:

- · Operation manual
- Menu Sticker
 - Enter cooking times or dish menus in this sticker and attach to the control panel.
- Caution sheet (Special Instructions and Warnings: part number TCAUHA429WRRZ)

ONTROL PANEL





DISPLAY AND INDICATORS

- Heating indicator:
 This indicator shows heating in progress
- ② Memory number indicator
- ③ TIME display
- 4 EXPRESS DEFROST indicator
- ⑤ Check mode indicator
- ® POWER LEVEL display: Percentage of microwave power is indicated
- 7 Filter indicator
- ® Double quantity mode indicator
- ③ 3rd sequence indicator
- 10 2nd sequence indicator
- 1 1st sequence indicator

OPERATING PADS

- Double quantity pad
- ③ EXPRESS DEFROST pad
- NUMBER pads for time and memory programming
- (5) MANUAL/REPEAT pad
- (6) STOP/CLEAR pad; Press to stop operation of oven and clear remaining heating time
- POWER LEVEL pad for setting variable power level
- (8) START pad. Press to operate oven after door is closed and time is set
- (19) SET pad for setting memory
- CHECK pad for checking memory
- ② VOLUME pad for setting sound level

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MPORTANT SAFETY INSTRUCTIONS

IMPORTANT: PLEASE READ CAREFULLY AND KEEP FOR FUTURE REFERENCE.

This appliance is intended to be used by expert or trained user in shops, in light industry and on farms, or for commercial use by lay persons.

This oven is designed to be used on a countertop only. It is not designed to be built into a kitchen unit. Do not place the oven in a cabinet.

The electrical outlet must be readily accessible so that the unit can be unplugged easily in an emergency.

If smoke or burn is observed: Keep the oven door closed and switch off the power by disconnecting the plug from the socket in order to stifle any flames. Failure to follow this procedure may result in fire and oven damage.

Ensure there is a minimum of free space above the oven of 25 cm.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

WARNING: Only allow children to use the oven without supervision when adequate instructions have been given so that the child is able to use the oven in a safe way and understands the hazards of improper use.

WARNING: If the door or door seals are damaged, the oven must not be operated until it has been repaired by a competent person.

WARNING: Never adjust, repair or modify the oven yourself. It is hazardous for anyone other than a competent person to carry out any service or repair operation which involves the removal of a cover which gives protection against exposure to microwave energy.

If the power supply cord of this appliance is damaged, it must be replaced by an authorised SHARP service agent in order to avoid a hazard.

WARNING: Liquids and other foods must not be heated in sealed containers since they are liable to explode.

WARNING: Microwave heating of beverages can result in delayed eruptive boiling, therefore care must be taken when handling the container.

Do not cook eggs in their shells, and whole hard boiled eggs should not be heated in microwave ovens since they may explode even after microwave cooking has ended. To cook or reheat eggs which have not been scrambled or mixed, pierce the yolks and the whites, or the eggs may explode. Shell and slice hard boiled eggs before reheating them in the microwave oven. Utensils should be checked to ensure that they are

Utensils should be checked to ensure that they are suitable for use in the oven. See page 14. Use only microwave safe containers and utensils on microwave modes

WARNING: The contents of feeding bottles and baby food jars must be stirred or shaken and the temperature checked before consumption, in order to avoid burns.

When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition. Clean the oven at regular intervals and remove any food deposits

Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the life of the appliance and possibly result in a hazardous situation.

See instructions for cleaning door seals, cavities and adjacent parts on page 28.

The oven should not be cleaned with a water jet.

Use oven gloves when removing food from the oven to prevent burns.

The microwave oven should not be left unattended during operation. Power levels that are too high, or cooking times that are too long, may overheat foods resulting in a fire.

A separate circuit serving only this appliance should be provided.

Oven Use:

- The oven is for food preparation only.
 Never operate when empty.
- Do not leave or store anything inside the oven when not in use.
- Never attempt to use the oven with the door open.
 It is important not to tamper with the door safety latches.
 This may result in exposure to microwave energy.
- Never operate the oven with any object caught in the door sealing surfaces, this again may cause microwave leakage.
- Do not insert fingers or objects in the holes of the door latches or air vent openings as this may damage the oven and cause an electric shock.
- If water or food drops inside the air vent openings switch off the oven immediately, unplug it and call a Service Technician appointed by SHARP.
- Never attempt to move the oven while it is operating.
- · Do not use the oven near a steamer or a fryer.
- Always wipe up spills on the ceramic floor and splashes on the walls after cooking. If you leave grease on the ceramic floor and walls it may overheat, smoke or even catch fire when next using your oven.
- After each use wipe the splash cover on the ceiling of the oven with a soft damp cloth to remove any splashes. If you leave grease on the splash cover it may overheat, smoke or even catch fire when next using your oven.

↑ WARNING:

Pacemaker: If you have a heart pacemaker, consult your doctor or the pacemaker manufacturer prior to oven use. Liquids: Microwave heating of beverages can result in delayed eruptive boiling, therefore care must be taken when handling the container. Stir the liquid prior to and during heating/ reheating, let liquid stand for at least 20 seconds in the oven after cooking.



NSTALLATION

/ WARNING:

Inspect the Oven:

Check the oven carefully for damage before and regularly after installation.

- Make sure the door closes properly, that it is not misaligned or warped.
- Check the hinges and door safety latches are not broken or loose.
- Ensure the door seal and sealing surfaces are not damaged.
- Inspect the oven interior and door for dents.
 Caution Sheet:

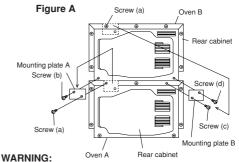
Always keep the caution sheet (Special Instructions and Warnings) close to the oven for your reference.

Important:

If any damage is apparent, do not operate the oven in any way. Contact your dealer or an authorised Service Technician appointed by SHARP.

- 1 Remove all packing materials. Remove the protective film (blue film) from the outer case cabinet (if covered). Do not remove the plastic film from the inside of the oven window as this protects it from dirt.
- Place oven on a secure, level surface, strong enough to take the oven weight, plus the heaviest item likely to be cooked in the oven.
 - Do not place this oven in a position which is not easily accessible. To position the oven too high can be dangerous because food can not be removed safely.
- 3 Ensure there is a minimum free space above the oven of 25 cm.
- Do not place the oven where heat, moisture or high humidity are generated, (for example, near or above a conventional oven) or near combustible materials (for example, curtains). Do not block or obstruct air vent openings, as obstructions may ignite due to the emission of hot air.
- 5 Make sure the power supply cord is undamaged and that it does not run under the oven or over any hot or sharp surfaces.
- 6 The socket must be readily accessible so that it can be easily unplugged in an emergency.
- 7 Do not use the oven outdoors.
- 8 Two same oven models can be installed together by placing one on top of another. Follow these instructions.
- **8-1**) Place the oven A and position the oven B on top of the oven A as shown in the figure A.
- **8-2**) Remove the single screw (a) holding the mounting plate A to the rear cabinet of the oven A. And remove the mounting plate A.
- **8-3**) Remove the single screw (b) from the rear cabinet of the oven B, as shown in the figure A.
- **8-4**) Reinstall the mounting plate A to the rear cabinet of the oven B with the single screw (b) removed, as shown in the figure A.
- **8-5**) Hold the mounting plate A to the rear cabinet of the oven A with the single screw (a), as shown in the figure A.
- 8-6) Remove the screw (a) holding the mounting plate B to the rear cabinet of the oven B. And remove the mounting plate B from the oven B. See the figure A.
- 8-7) Install the screw (a) to its position again.
- 8-8) Remove the screw (c) from the oven A.
- 8-9) Remove the screw (d) from the oven B.

8-10) Turn the removed mounting plate B over and then using the removed screw (c) and (d), attach the mounting plate B, as shown in the figure A.



In situations where two ovens are installed together by placing one on top of another,

- 1) Use the two mounting plates for fixing the two ovens.
- 2) Make sure that the power supply cord is not caught between the two ovens.
- 3) Do not install more than one oven on top of another.
- Do not lose the removed screws.

BUILDING-IN-KIT

This oven is not designed to be built into a kitchen unit.

IMPORTANT! ELECTRICAL CONNECTION

- Do not allow water to come into contact with the power supply cord or plug.
- Insert the plug properly into the socket as the plug may otherwise overheat and catch fire.
- Do not connect other appliances to the same socket using an adaptor plug as it may cause the wiring to overheat and catch fire.
- If the plug or socket is loose or the power supply cord is damaged, do not operate the oven, it must be replaced by the special power cord. Contact your dealer or a Service Technician appointed by SHARP. A defective plug, power supply cord or socket may overheat and catch fire during operation or cause an electrical shock.
 - When removing the plug from the socket always grip the plug, never the mains lead as this may damage the power supply cord and the connections inside the plug.
- The product is fitted with a non-rewireable (moulded) plug. Should it not be suitable for the socket outlet in your kitchen, remove the plug and fit an appropriate type, observing the wiring code given in "To replace the mains plug" on page 30.

The fuse from a cut-off plug should be removed and the plug disposed of in safe manner. Under no circumstances should the cut-off plug be inserted into a socket outlet as serious electrical shock may occur. The plug must not be used without the fuse cover fitted.

When replacing the plug please ensure that you use a BSI or ASTA approved plug to BS1363, this should be fitted with a brown coloured 13 amp fuse approved by BSI or ASTA to BS1362. If you have any doubt about electrical connection seek the help of a qualified electrician.

⚠ WARNING

THIS APPLIANCE MUST BE EARTHED.

To wire an appropriate plug, follow the wiring code given in "To replace the mains plug" on page 30.



EFORE OPERATION

- When you first connect the microwave oven to an electrical socket, the digital display will show
- You can input the pads only when the door is closed.
- Oven lamp and fan motor work for 1 minute whenever the door is opened or after cooking.
- The programme or check mode is cancelled when any pads are not pressed for more than 3 minutes.
- End will appear on the display after the time reaches zero. It will disappear when the oven door is opened or the STOP/CLEAR pad is pressed.

VOLUME AND SOUND SETTING

There are three preset volume levels of two different sounds for your oven.

To set the volume and sound, press the SET pad twice within 2 seconds and then continue pressing the VOLUME pad until you hear the desired volume and sound.

Note: 1. The volume will decrease as you are pressing the VOLUME pad. After the lowest level, the

- volume will start again at the maximum level and the sound will change to another one at the same time.
- The audible signal will not sound when the SET pad is pressed once, however an audible signal will sound when the SET pad is pressed twice.

STOPPING THE OVEN =

- If you wish to stop the oven during cooking:
 - Press the STOP/CLEAR pad once.
 - 2. Open the door (except memory cooking).

To start the oven again, close the door and press the START pad within 1 minute.

- If you open the door during memory cooking, the programme is cancelled.
- If you wish to cancel a programme during cooking, press the STOP/CLEAR pad twice.
- If you wish to erase a mistake during programming, press the STOP/CLEAR pad once.



OW TO OPERATE THE OVEN

Introduction: Microwaves are absorbed by water, sugar and fat in food and cause them to vibrate. This creates heat by friction, in the same way your hands get warm when you rub them together.

Outer areas of food are heated by microwave energy, and remaining portions by conduction. It is, therefore, important to turn, rearrange or stir food to ensure even heating. Where recommended, allow food to stand, this

is not optional but necessary to ensure thorough cooking and is particularly important for dense food, such as joints of meat.

Microwaves pass through non-metallic dishes and utensils and heat the food inside the dishes. Microwaves are reflected by metal. The oven is lined with metal and has a fine metallic mesh in the door to prevent microwave leakage. Metallic dishes are not suitable for microwaving.

MEMORY COOKING

NOTE FOR MEMORY COOKING :

- This oven has 20 memory banks (1-20) which can store cooking programmes.
- The memory banks 1-5 have been programmed previously as shown in the table. These preprogrammed memory banks can be changed individually if required.
- In addition for all memory banks a magnification factor 1.8 for the double quantity is stored. The stored magnification factor can also be changed individually if required.
- Information in these memory banks is not lost due to power interruptions. If the power goes off, the oven does not need to be reprogrammed. No batteries are necessary for this type of memory.
- If you want to memorize or check the programme or cook using memory 11-20, press the desired NUMBER pad twice within 1 second.

Memory No.	Cook Time	Output Power
1	10 sec.	100%
2	20 sec.	100%
3	30 sec.	100%
4	45 sec.	100%
5	1 min.	100%

To check the stored programmes please refer to "Memory check" on page 9.

To change the stored programmes please refer to "Memory programme entry" on pages 7-8.

MEMORY PROGRAMME ENTRY =

You can change memory programmes for 20 memory banks. One, two or three sequences can be programmed. See cooking sequence chart on top of page 11 for time maximums.

MEMORIZING TIME AND POWER LEVEL

* Example : If you want to set 4 minutes at 60% as the 1st sequence and 2 minutes at 30% as the 2nd sequence for 1 serving in the memory 1.

Step	Action	Press pad	Display
1	Select set mode.	SET X 2 within 2 sec.	N/MBER
2	Select memory number. 1	1	NUMBER /
3	Press MANUAL/REPEAT pad.	MANUAL / REPEAT	NUMBER , , , , , , , , , , , , , , , , , , ,
4	Enter desired cooking time for 1st sequence. (4 minutes)	4 X 1 0 X 2	NUMBER
5	Press POWER LEVEL pad.	POWER LEVEL	NUMBER POWER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6	Enter desired power level for 1st sequence. (60%)	6	NUMBER POWER 500 500 500 500 500 500 500 500 500 50
7	Press MANUAL/REPEAT pad.	MANUAL / REPEAT	NUMBER , , , , , , , , , , , , , , , , , , ,
8	Enter desired cooking time for 2nd sequence. (2 minutes)	2 X 1 0 X 2	NUMBER , , , , , , , , , , , , , , , , , , ,
9	Press POWER LEVEL pad.	POWER LEVEL	NUMBER POWER CO
10	Enter desired power level for 2nd sequence. (30%)	3	NUMBER POWER 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
11	Press SET pad twice to complete the setting.	SET X 2	

Note: 1. If the cooking time is over the max. time, the display will show "EE9". See page 13.

- 2. If your programmed time is over max. time at Double Quantity, you cannot use Double Quantity for the memory. You can cook only 1 serving.
- 3. It is not necessary to press POWER LEVEL pad for 100%.
- 4. At step 1, the audible signal will not sound when the SET pad is pressed once but an audible signal will sound when the SET pad is pressed twice.

CHANGING THE TIMING REQUIRED BY THE MAGNIFICATION FACTOR FOR DOUBLE QUANTITY

The magnification factor for double quantity is preset 1.8 times the single quantity cooking time, but you can alter this constant to suit your needs if the food needs more or less cooking time.

* Example: If you want to change the magnification factor to 1.67 in memory 1.

Step	Action	Press pad	Display
1	Select set mode.	SET X 2 within 2 sec.	NUMBER .
2	Press DOUBLE QUANTITY pad.	DOUBLE	NUMBER - DOUBLE
3	Select memory number. 1	1	NUMBER / OOUBLE
4	Press MANUAL/REPEAT pad.	MANUAL / REPEAT	NUMBER ,
5	Set the magnification factor (1.67).	1 6 7	NUMBER , , , , , , , , , , , , , , , , , , ,
6	Press SET pad twice to complete the setting.	SET X 2	·

Note: 1. In case you want to change the magnification factor it must be set for each key separately.

- 2. The magnification can be set from 0.00 to 9.99.
- 3. At step 1, the audible signal will not sound when the SET pad is pressed once but an audible signal will sound when the SET pad is pressed twice.

COOKING WITH MEMORY

* Example: To cook using memory 1, which was programmed for 10 seconds at 100%.

Step 1

Step 1

Select memory The programme will 1 number. start after 1 second. ON 1

COOKING DOUBLE QUANTITY WITH MEMORY

* Example: To cook 2 servings by memory 1, (In this case the constant for double quantity is 1.8). Step 2

Select double quantity cooking mode

DOUBLE QUANTITY

Select memory number.

DISPLA

The programme will start after 1 second.

Note: 1. If the cooking time of double quantity is over the max time (see page 10), the display will show "EE9".

- 2. Double quantity means best time for cooking double quantity; it is not double the time.
- 3. The "MEMORY" cooking system does not require the use of the START pad. MEMORY cannot be used to start the oven if a program is already on display.

MEMORY CHECK —

You can check the information programmed into the memory.

CHECKING TIME AND POWER LEVEL

* Example: If you want to know the information that you have programmed into memory 1, this memory has been programmed for 4 minutes at 60% as the 1st sequence and 2 minutes at 30% as the 2nd sequence.

Step	Action	Press pad	Display
1	Select check mode.	CHECK	MARSER CHECK
2	Select memory number. 1	1	NUMBER POWER POWER
3	Cancel check mode.	CHECK	·

Note: When _____ is displayed at Step 2, the memory is not set.

CHECKING THE MAGNIFICATION FACTOR FOR DOUBLE QUANTITY

* Example: If you want to know the magnification factor for double quantity in MEMORY 1. (1.67 is programmed.)

Step	Action	Press pad	Display
1	Select check mode.	CHECK	NUMBER CHECK .
2	Select double quantity cooking mode.	DOUBLE	NUMBER CHECK - DOUBLE
3	Select memory number. 1	1	NUMBER CHECK
4	Cancel check mode.	CHECK	

Note: Magnification factor 1.80 for the double quantity is stored in all memories unless changed.

MANUAL COOKING

Your oven can be programmed for up to 3 cooking sequences and has 11 preset microwave power levels.

COOKING TIME

Cooking Sequence	Microwave power level that can be used.	Cooking time that can be used.
1 Stage only	0-100%	Max. 30 minutes
2 or 3 Stages	0-40% all stages	Max. 30 minutes any stage Max. 60 minutes for two stages Max. 90 minutes for three stages
	50-100%	Max. 30 minutes all stages

Note: If the oven is used with the power level above 40% on any stage, the maximum cooking time is 30 minutes in total.

POWER LEVEL

This model has 11 power levels. Use correct number pad after pressing POWER LEVEL pad.

Microwave POWER level	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	0%
Number pads	NONE	9	8	7	6	5	4	3	2	1	0

NOTE FOR MANUAL COOKING =

- It is not necessary to press POWER LEVEL pad for 100%.
- If the cooking time is over the max. time, the display will show "EE9". See page 13.
- During cooking mode, the oven stops when the door is opened, and the programme is cancelled if the START key is not pressed within 1 minute after the door is closed.

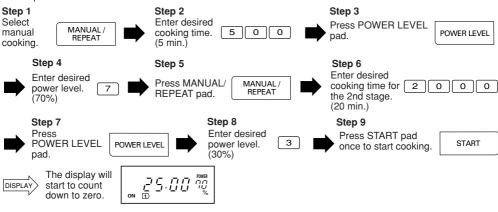
TIME COOK =

* Example: Suppose you want to cook for 2 minutes and 30 seconds at 50%.



MULTIPLE SEQUENCE COOKING =

* Example: To cook for 5 minutes at 70% and then continue to cook for 20 minutes at 30%.



Note: When you press START pad, the display will show the total cooking time.

REPEAT COOK :

Your oven can remember the last manual programme.

* Example: To cook with the last programme, which was programmed for 2 minutes and 30 seconds at 50%.



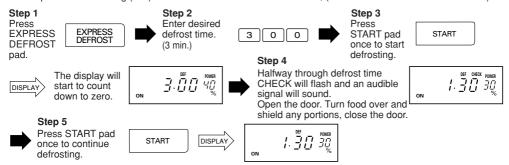
EXPRESS DEFROST =

You can defrost the food listed on the Express Defrost chart on page 19 easily by using the EXPRESS DEFROST pad. The oven is pre-programmed with a time/power level cycle so that the food listed on the chart is defrosted evenly and faster.

Select the food from the chart and then calculate total defrosting time from the chart.

Then enter the time you have calculated and start the oven.

* Example: To defrost 450g (1lb.) beef steak for 3 minutes in the R-22AT, (2 minutes 30 seconds in the R-24AT).



TIPS: Allow foods to stand a few minutes after defrosting to equalize the temperature for better cooking results.

Check food after standing. If additional time is needed, continue to defrost with 20% power and additional time.

Foods that are the same thickness throughout defrost better. If foods have varied thickness, it may be necessary to shield the thin edges with small flat pieces of aluminum foil to prevent overdefrosting.

For foods not listed in the chart refer to the manual defrost chart on pages 18-19.

OTHER CONVENIENT FEATURES

COUNTER CHECK —

Set counter to "0" before using oven for the first time. See page 13. With this feature you can check how many times the oven was used.

* Example: Suppose you want to know the total operated times and the number operated by each memory/function.

If the oven was operated 8268 times and memory 1 was used 513 times and memory 12 was used 228 times, and manual cooking was used 3339 times, and Express Defrost was used 856 times.

Step	Action	Press pad	Display
1	Select check mode for total usage.	CHECK X 2	(Total times used)
	To check memory 1 usage, press NUMBER pad 1.	1	(Times memory 1 used)
	To check memory 12 usage, press NUMBER pad 2 twice.	2 X2	(Times memory 12 used)
2	To check manual cooking usage, press MANUAL/REPEAT pad.	MANUAL / REPEAT	(Times manual cooking used)
	To check EXPRESS DEFROST usage, press EXPRESS DEFROST pad.	EXPRESS DEFROST	(Times EXPRESS DEFROST used)
3	Cancel check mode.	CHECK	

Note: Each counter can count the times up to 9999, and then it will return to 0 if it is over 9999.

COUNTER CLEAR =

Each number of times can be cleared.

* Suppose you want to clear the times of memory 1.

Step	Action	Press pad	Display
1	Select check mode.	CHECK X 2	(Total times used)
2	Press NUMBER pad 1 .	1	(Times memory 1 was used)
3	Press SET pad.	SET	MUMBER CHECK
4	Cancel check mode.	CHECK	

Note: 1. To clear times of manual cooking, press MANUAL/REPEAT pad at Step 2 instead of NUMBER pad.

To clear times of EXPRESS DEFROST cooking, press EXPRESS DEFROST pad at Step 2 instead of NUMBER pad.

2. To clear total using times, miss out Step 2.

INFORMATION WITH ERROR MESSAGES =

If ERROR messages are displayed, follow the instructions below.

ERROR MESSAGES	
EE1 EE2 EE3 EE6 EE8 EE0 EE10 EE16	Please contact your dealer or an authorized service agent because the oven is malfunctioning.
EE7	Exhaust air temperature is too high. Check that nothing is blocking the vent openings and air intake openings or that room temperature is too hot or that oven cavity is empty during operation. Correct, press STOP/CLEAR pad and try again after a few minutes.
EE9	Cooking time exceeds the max. time. Press STOP/CLEAR pad and programme again.
EE17	Magnetron temperture is too high. Press STOP/CLEAR pad and try again after a few minutes.

INFORMATION FOR FILTER INDICATOR =

- 1. Clean the air intake filter when the FILTER indicator lights up. See page 28. The FILTER indicator will light up when the oven has been operated for about 200 hours in total.
- To cancel FILTER indicator press the START pad. The oven will start to count the operation time automatically again when the FILTER indicator is cancelled.



OOKING ADVICE

WARNING - Always attend the oven when in use.

Carefully follow the SHARP Operation Manual at all times. If you exceed recommended cooking times and/or use power levels that are too high, food may overheat, burn, and in extreme circumstances, catch fire and damage the oven.

- The microwave power level will default to 100% unless you press the POWER LEVEL button for the desired setting. Take care when heating foods with high sugar or fat content, e.g. Christmas pudding, mince pies and fruit cakes. Before use, check that utensils are suitable for use in microwave ovens.
- · Lids: Always remove lids from food jars and containers before using them in the oven. If you do not, steam and pressure will build up inside and the container may explode. Take care when heating contents in babies bottles, see page 15.
- Do not cook eggs in their shell as they will explode. **Do not** heat canned potatoes in the microwave oven as they may burst.

For microwaving, use only those utensils suitable for microwave cookery as indicated below.

A variety of cookware can be used for microwaving. Round/oval dishes rather than square/oblong ones are recommended, as food in the corners tends to overcook.

SUITABLE COOKWARE =

COOKWARE

YES

SUITABLE FOR MICROWAVING

Heat resistant glass, (e.g. Pyrex®, Fire King®. Corning Ware ®).

Microwave-safe



YES

plastic cookware.



Microwave cling film, microwave roasting bags.

Heat resistant china and ceramics.





Disposable containers: Thin plastic, paper, straw and wooden containers.



Kitchen paper.

Browning dishes & self-heating packages.



Metal cookware.



Aluminium foil & foil containers, made from "Microfoil®".



YES

Microwave cling film and bags must be vented for steam to escape, pierce in 4-5 places. Do not use plastic or metal ties as they may melt or catch fire due to 'arcing'.

Except for dishes with metallic decoration.

Always attend the oven closely. Look at the oven from time to time when cooking or reheating food in disposable containers of plastic, paper or other combustible material. Only use for warming food. Pay special attention as over-heating may cause a fire in your oven.

YES

Always attend the oven closely. Only use to absorb fat and moisture when warming food. Pay special attention as overheating may cause a fire in your oven.

YES

Always place on an up-turned plate on the turntable to prevent heat stress. Follow manufacturer's instructions. Be careful as these become very hot. **Popcorn:** Only use microwave popcorn within recommended packaging (follow popcorn manufacturer's instructions). Never use oil unless the manufacturer recommends and never cook for longer than instructed.

NO

YES

Use small pieces of aluminium foil to shield food from overheating. Keep foil at least 2cm from the oven walls. Foil containers are not recommended unless specified by the manufacturer, e.g. MicroFoil®, follow instructions carefully.

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Face & Hands: Always use oven gloves to remove food or cookware from the oven. Stand back when opening the oven door to allow heat or steam to disperse. When removing covers (such as cling-film), opening roasting bags or popcorn packaging, direct steam away from face and hands.

Check the temperature of food and drink and stir (before serving). Take special care when serving food to babies, children or the elderly, the contents of feeding bottles and baby food jars should be stirred or shaken and the temperature checked before consumption to avoid burns.

FOOD HANDLING & PREPARATION :

Stir, turn & stand



For even cooking stir, turn or rearrange food during cooking. Where recommended, leave food to stand after cooking or defrosting.

Initial temperature



The initial temperature of food affects the amount of cooking time needed, for example, chilled food requires more cooking than food at room temperature. The temperature of the container is not a true indication of the temperature of the food or drink. Cut into foods with fillings, for example, jam doughnuts, to release heat or steam.

Piercing



Food with skin (e.g. potatoes, apples, fish, sausages, chicken), or with membrane (e.g. egg whites/yolks), must be pierced in several places before cooking or reheating. If not, steam will build up and may cause food to explode.

Arrangement



Place thickest parts of food on the outside of the dish, e.g. place the meaty ends of chicken drumsticks on the outside of the dish.

Covering



Fish, vegetables and certain other foods benefit from being covered during microwave cookery, follow recommendations where given and use vented microwave cling film or a suitable lid.

Size & shape



Food size and shape affect the amount of cooking time needed. When cooking more than one portion of the same food ensure they are of a similar size and shape.

Density & quantity



Food density and quantity affect the amount of cooking time needed, for example, potatoes require more cooking than peas; four potatoes will take longer to cook than two.

Composition & quality



Food high in fat or sugar (Christmas pudding, mince pies) requires less heating time and should be watched, over-heating can lead to fire. Use good quality ingredients for microwaving. Economical cuts of meat can be used for casseroles.

Hygiene



Food hygiene standards (storage, handling and preparation) apply to microwaving. Always store convenience foods as recommended by the food manufacturer and keep no longer than the "Use By" date.

ADVICE FOR DEFROSTING

Meat joints



Place in a flan dish, turn over at least 4-5 times during defrosting, shield any warm areas with small, flat pieces of foil. After defrosting, wrap in foil and allow meat to stand for 1-2 hours, <u>until thoroughly</u> defrosted.

Poultry



Place in a flan dish, turn over at least 3-4 times during defrosting, shield any warm areas with small, pieces of foil. After defrosting, wrap in foil and allow poultry to stand for 1-2 hours, <u>until thoroughly</u> defrosted.

NOTE: Do not defrost poultry with giblets.

Steak, Chops & Chicken Portions



Place in a flan dish, separate during defrosting and turn over at least 2-3 times. Shield if necessary.

Cubed & Minced Meat



Place in a bowl, remove defrosted parts and turn over at least 3-4 times during defrosting.

Whole fish & Fillets



Place in a flan dish, separate and turn over at least twice during defrosting. Shield if necessary.

Prepacked Frozen Foods



Remove packaging, including any foil and place in a suitable dish.

NOTES:

- To defrost food, use either 30% or 10% microwave power.
- Shield warm areas with small pieces of foil if necessary.
- It is important to turn food over, separate (where appropriate) and rearrange to ensure even defrosting.
- · Standing time is necessary after defrosting to ensure thorough defrosting.

ADVICE FOR REHEATING:



WARNINGS:

Oil & Fat: Never heat oil or fat for deep frying as this may lead to overheating and fire. Stand back when opening the oven door to allow heat or steam to disperse. When removing covers (such as cling-film), opening roasting bags or popcorn packaging, direct steam away from face and hands.

Never heat liquids in narrow-necked containers, as this could result in the contents erupting from the container and may cause burns.

- · Remove food from foil or metal containers before reheating.
- Reheating times will be affected by the shape, depth, quantity and temperature of food together with the size, shape and material of the container.
- To avoid overheating and fire, spacial care must be taken when reheating foods with a high sugar or fat content, for example, mince pies, Christmas pudding.
- · Canned potatoes should not be heated in the microwave oven, follow the manufacturers' instructions on the can.

Plated meals



Remove any poultry or meat portions, reheat these separately, see below. Place smaller items of food to the centre of the plate, larger and thicker foods to the edge. Cover with vented microwave cling film and reheat on 50%, stir/rearrange halfway through reheating. Ensure thoroughly reheated before serving.

Casseroles



Cover with vented microwave cling film or a suitable lid, reheat on 50%. Stir frequently to ensure even reheating.

Poultry portions



Place thickest parts of the portions on the outside of the dish, cover with microwave cling film and reheat on 70%. Turn over halfway through reheating.

NOTE: Ensure poultry is thoroughly reheated, before serving.

Sliced meat



Cover with vented microwave cling film and reheat on 50%. Rearrange at least once to ensure even reheating.

NOTE: Ensure meat is thoroughly reheated before serving.

Pies



Place pies on plate or in a flan dish. Reheat meat pies on 70% and fruit pies on 50%.

Vegetables



Cover with vented microwave cling film or suitable lid and reheat on 50%. Stir at least once during reheating.



D EFROSTING CHART

MANUAL DEFROSTING

FOOD	TIME		METHOD
	R-24AT R-22AT	POWER LEVEL	
Beef, Lamb & Pork Joints (uncooked)	8 mins 13-14 mins /450g (1lb)	LOW (10%)	 Place on a large plate. Turn over 4-5 times during defrosting. NOTE: If necessary, small pieces of aluminium foil can be used to shield small areas of meat which may become warm during defrosting. After defrosting, wrap in foil and leave to stand for 1-2 hours or until thoroughly defrosted.
Whole Poultry (uncooked)	6-7 mins 13 mins /450g (1lb)	LOW (10%)	As above
Minced Beef (uncooked)	3-4 mins 5-6 mins /450g (1lb)	MEDIUM LOW (30%)	 Place on a plate or in a flan dish. Turn over 2-3 times during defrosting, removing defrosted mince each time. After defrosting, cover any frozen mince remaining with aluminium foil for 15-20 minutes or until thoroughly defrosted.
Sausages (uncooked) Thick Thin	5-6 mins 8-9 mins 3-4 mins 5-6 mins /450g (1lb)	LOW (10%)	 Place on a large plate, in a single layer if possible. Turn over 2-3 times during defrosting and separate if necessary. After defrosting, cover with aluminium foil and leave to stand for 15-20 minutes or until thoroughly defrosted.
Bacon (uncooked)	5-6 mins 7-8 mins /450g (1lb)	LOW (10%)	 Place on a plate. Separate and re-arrange 3-4 times during defrosting. After defrosting, cover with aluminium foil and leave to stand for 5-10 minutes or until thoroughly defrosted.
Sausage Rolls Large (cooked)	1-2 mins 3-4 mins for 8 rolls, 375g (13oz) Total weight	LOW (10%)	 Place on a large plate. Turn over and re-arrange halfway through defrosting. After defrosting, cover with foil and leave to stand for 15-30 minutes or until thoroughly defrosted.
Quiche (cooked)	5-6 mins 7-8 mins /450g (1lb)	LOW (10%)	 Place on a large plate. After defrosting, cover with foil and leave to stand for 15-30 minutes or until thoroughly defrosted.
Meat Pie (cooked)	4 mins 6-7 mins /450g (1lb)	LOW (10%)	As above.
Fruit Pie/ Crumble (cooked)	3-4 mins 5-6 mins /450g (1lb)	LOW (10%)	As above.
Sponge Pudding (cooked)	2-3 mins 3-4 mins /450g (1lb)	LOW (10%)	As above.



EFROSTING CHART

FOOD	DEFROSTING TIME R-24AT R-22AT	MICROWAVE POWER LEVEL	METHOD
Bread Sliced	2-3 mins 3-4 mins /800g (1³/4lb) loaf	MEDIUM LOW (30%)	 Arrange and separate slices on the turntable. Turn over, separate and re-arrange twice during defrosting. Remove defrosted slices each time. After defrosting, cover with foil for 5-10 minutes or until thoroughly defrosted.
Bread Buns	1-2 mins 2-3 mins for 6 buns	LOW (10%)	 Place on turntable. Turn over & re-arrange halfway through defrosting. After defrosting, cover with foil and leave to stand for 10-15 minutes or until thoroughly defrosted.
Rice (cooked)	3 ¹ / ₂ mins 4-5 mins /450g (1lb)	MEDIUM LOW (30%)	 Place in a large bowl. Break up during defrosting, removing defrosted rice each time. After defrosting, cover any frozen rice remaining with foil and leave to stand for 10-15 minutes or until thoroughly defrosted.

NOTES:

- Prior to defrosting, food is frozen approx. -18°C.
- If it is necessary to shield small areas of food, use small pieces of foil.
 - Only use food which is thoroughly defrosted, use a professional food thermometer to ensure acceptable temperatures have been achieved throughout.

EXPRESS DEFROST

This is specially designed for smaller cuts of food. The following items are to be used on the express defrost programme.

- 1.Beef Steak
- 2.Lamb Chops
- 3. Pork Chops
- 4.Chicken Legs
- 5.Fish Fillets

The oven is pre-programmed with a time and power level cycle so that the food listed above is defrosted better and faster.

BASIC IDEAS FOR EXPRESS DEFROST

- i/ Always allow food to stand for approx. 30-45 minutes after defrosting to equalise the temperature and to produce better defrosting results.
- ii/ Check food after standing. If the item is not thoroughly defrosted, continue to defrost on 20% power for additional time.
- iii/ Choose foods that are the same thickness throughout. This will produce better defrosting results. Foods which vary in thickness may require shielding with small flat pieces of tin foil to prevent over-defrosting.
- iv/ For foods not listed in the chart refer to the manual defrosting chart.
- v/ When freezing chicken legs, steak, chops and fish, freeze separately in single flat layers and if necessary interleave with freezer plastic to seperate layers. This will ensure even defrosting.

FOOD	METHOD	TIME PER R-24AT	450g / 1lb R-22AT
Steak Pork, lamb chops Chicken Legs	 Position the food with thinner parts in centre in a single layer, if pieces are stuck together separate as soon as possible. Turn over, rearrange after the audible sound. After defrosting stand for 15-45 minutes. 	2 ¹ / ₂ mins	3 mins
Fish Fillets	 Position the food in a single layer. Shield any thinner parts with foil if necessary. If pieces are stuck together separate as soon as possible. Turn over, rearrange after the audible sound. After defrosting allow to stand for 15-45 mins. 	2 ¹ / ₂ mins	3 mins



C OOKING CHART

FOOD	COOKING TIME	MICROWAVE POWERLEVEL	METHOD
	R-24AT R-22AT		
Beef: Medium (Topside, Silverside) Chilled (5°C)	7-8 mins 9-10 mins /450g (1lb)	MEDIUM HIGH (70%)	 Place fat side down in a flan dish. Turn over halfway through cooking and remove juice. After cooking, wrap in foil and leave to stand for 8 minutes before serving.
Lamb, medium (fillet, shoulder, leg) Chilled (5°C)	7-8 mins 9-10 mins /450g (1lb)	MEDIUM HIGH (70%)	As above.
Pork (loin, leg) Chilled (5°C)	7-8 mins 12-13 mins /450g (1lb)	MEDIUM HIGH (70%)	As above.
Poultry (whole) (max.3.5kg(8lb) Chilled (5°C)		MEDIUM HIGH (70%)	 Place breast side down in a flan dish. Turn over halfway through cooking and remove juice. After cooking, wrap in foil and leave to stand for 10 minutes before serving.
Chicken Portions Legs Breast Chilled (5°C)	4-5 mins 5-6 mins 6-7 mins 8-9 mins /450g (1lb)	MEDIUM HIGH (70%)	 Place best side down in a single layer in a flan dish. Turn over halfway through cooking, & remove juice. After cooking, wrap in foil and leave to stand for 5 minutes before serving.
Minced Beef Chilled (5°C)	4 mins 5 mins /450g (1lb)	MEDIUM HIGH (70%)	 Place in a large bowl. Stir 2-3 times during cooking. After cooking cover bowl with foil and leave to stand for 2-3 minutes before serving.
Bacon Chilled (5°C)	2 mins 3-4 mins for 8 rashers	HIGH (100%)	 Place in a single layer on a large plate. Turn over halfway through cooking. Leave to stand for 1 minute before serving.
Burgers (Thick) Chilled (5°C)	2 mins 4 mins for 4 burgers/450g(1lb)	HIGH (100%)	As above
Sausages (thick) Chilled (5°C) (thin) Chilled (5°C)	2 mins 3 mins for 8 sausages 2 mins 3-4 mins for 12 sausages	HIGH (100%)	As above
Sliced Gammon Chilled (5°C)	4 mins 5 mins for 1 slice/250g(9oz)	MEDIUM HIGH (70%)	As above



C OOKING CHART

FOOD	COOKING TIME	MICROWAVE	METHOD
	R-24AT R-22AT	POWERLEVEL	
Fish Fillet/ Steaks Chilled (5°C)	3 mins 4-5 mins /450g (1lb)	HIGH (100%)	 Place in a single layer in a large flan dish, cover with microwave cling film and pierce in 4-5 places. Leave to stand for 2-3 minutes before serving.
Trout (whole) Chilled (5°C)	3 mins 4-5 mins /450g (1lb)	MEDIUM HIGH (70%)	As above.
Rice/Pasta Room (20°C)	6-7 mins 9-10 mins for 200g (70oz)	MEDIUM HIGH (70%)	 Place Rice/Pasta in a 2.5 litre casserole dish. Add three times the volume of boiling water to quantity of rice. Do not cover. Stir 3 times during cooking. Stand for 2-3 minutes before rinsing in boiling water and serving.
Jacket Potatoes Room (20°C)	4-5 mins 6 mins for 2 potatoes	HIGH (100%)	 Pierce each potato in several places. Place on the edge of the turntable. Stand for 3-4 minutes before serving.
Corn on the Cob Room 20°C Frozen -18°C	Fresh: 2-3 mins 4 mins for 2 cobs Frozen: 4-5 mins 6-7 mins for 2 cobs	HIGH (100%)	 Place in a dish, add 60ml (4tbsp) water. Cover with microwave cling film pierce in 4-5 places. Turn over halfway through cooking. Stand for 1-2 minutes before serving.
Beans (green) Fresh: 20°C Frozen: - 18°C	Fresh: 2 mins	HIGH (100%)	 Place in a dish, add 30ml (2tbsp) water. Cover with microwave cling film and pierce in 4-5 places. Stir halfway through cooking. Stand for 1-2 minutes before serving.
Broccoli Fresh: 20°C Frozen: - 18°C	Fresh: 2 mins 3-4 mins for 225g (8oz) Frozen: 3 mins 4 mins for 225g (8oz)	HIGH (100%)	As above
Carrots (sliced) Fresh: 20°C Frozen: -18°C	Fresh: 2 mins	HIGH (100%)	As above
Carrots (baby, whole) Fresh: 20°C Frozen: -18°C	Fresh: 4 mins for 225g (80z) Frozen: 3 mins 4 mins for 225g (80z)	HIGH (100%)	As above
Cauliflower Fresh: 20°C Frozen: -18°C	Fresh: 2 mins	HIGH (100%)	As above



OOKING CHART

FOOD	COOKING TIME R-24AT R-22AT	MICROWAVE POWERLEVEL	METHOD
Peas Fresh: 20°C Frozen: -18°C	Fresh: 1-2 mins 2-3 mins for 225g (8oz) Frozen: 2-3 mins 3-4 mins for 225g (8oz)	HIGH (100%)	 Place in a dish, add 30ml (2tbsp) water. Cover with microwave cling film and pierce in 4-5 places. Stir halfway through cooking. Leave to stand for 1-2 minutes before serving.
New potatoes Room 20°C	4 mins 6-7 mins for 450g (1lb)	HIGH (100%)	 Place in a large dish, add 60ml (4tbsp) water. Cover dish with microwave cling film and pierce in 4-5 places. Stir halfway through cooking. Leave to stand for 1-2 minutes before serving.
Mushrooms (fresh) Room 20°C	1 min 2 mins for 225g (8oz)	MEDIUM HIGH (70%)	 Chop or leave whole as desired. Place in dish, cover with microwave cling film and pierce in 4-5 places. Stir halfway through cooking.
Tomatoes (fresh) Room 20°C	1 min 2 mins for 225g (8oz)	MEDIUM HIGH (70%)	 Slice or quarter as desired. NOTE: If you wish to leave whole, pierce in several places. Place in a dish or on a plate, cover with microwave cling film and pierce in 4-5 places. Leave to stand for 1-2 minutes before serving.
Scrambled Egg Chilled 5°C	2 mins 3 mins	HIGH (100%)	 Place 6 eggs (size 3), 150ml (¹/₄ pint) milk, 15g (¹/₂oz) butter, salt and pepper in a bowl and beat thoroughly until smooth. Beat 3 times during cooking until desirably set. Leave to stand for 30 seconds before serving.

NOTES

- Only serve food which is thoroughly cooked, use a professional food thermometer to ensure acceptable temperatures have been reached throughout.
- O Hygiene see Food Handling & Preparation, Page 15
- When cooking joints of meat small pieces of aluminium foil can be used to shield small areas of meat if they start to overcook.
- O During standing time food should be covered. If covered during cooking, leave covered. If cooked uncovered, cover with foil.
- The cooking times given above are provided as a guide only. Cooking times will vary according to food weight, quality and initial temperature. Please ensure that food is thoroughly cooked before serving.



FOOD	TEMP	QUANTITY	METHOD	REHEA TIME HIGH (R-24AT	ON
BREAKFAS	ST				
Porridge	Chilled	125g (5oz)	Place in a bowl, uncovered	35 sec	1 min
Scrambled Egg	Chilled	125g (5oz)	Place on a plate, uncovered	30 sec	50 sec
Scrambled Egg with bacon or sausage	Chilled	175g (6oz)	As above	50 sec	1 min 20 sec
Bacon	Chilled	4 rashers	As above	25 sec	45 sec
Sausages - thick Sausages-thin	Chilled Chilled	4 8	As above As above	35 sec 35 sec	55 sec 55 sec
Smoked Haddock	Chilled	175g (6oz)	As above	45 sec	1 min 20 sec
Mushrooms	Chilled	100g (4oz)	Place in a bowl, uncovered	15 sec	30 sec
Fresh Tomatoes	Chilled	100g (4oz)	As above	15 sec	30 sec
HOT SAND	WICHES				
Chickenburger	Chilled	135g (5oz)	Place on a plate, uncovered	35 sec	45 sec
Hamburger	Chilled	125g (5oz)	Place on a plate, uncovered	35 sec	45 sec
Cheeseburger	Chilled	175g (6oz)	As above	35 sec	45 sec
Hot Dog	Chilled	175g (6oz)	As above	35 sec	50 sec
Bacon	Chilled	175g (6oz)	As above	35 sec	50 sec
Sausage	Chilled	225g (8oz)	As above	50 sec	55 sec
Beef	Chilled	175g (6oz)	As above	35 sec	45 sec
PREPAREI	DISHES				
Lasagne	Chilled	300g (11oz)	Place on a plate, cover with cling film Stand covered for 2-3 minutes	2 mins 15 sec	3 mins
Chilli con Carne & Rice	Chilled	325g (12oz)	As above	2 mins	3 mins
Curry & Rice	Chilled	300g (11oz)	As above	2 mins	3 mins
Shepherds Pie	Chilled	300g (11oz)	As above	1 min 15 sec	2 mins
Stew & Dumplings	Chilled	400g (14oz)	As above	2 mins 30 sec	3 mins



FOOD	TEMP	QUANTITY	METHOD	TIME	ATING E ON (100%) R-22AT
PREPAREI) DISHES				
Bangers & Mash	Chilled	325g (12oz)	Place on a plate, cover with cling film	1 min 15 sec	2 mins 15 sec
Duck à l'orange	Chilled	540g (1lb 4oz)	As above	3 mins 15 sec	4 mins
Spaghetti Bolognese	Chilled	300g (11oz)	As above	1 min 15 sec	2 mins 15 sec
Chicken in a sauce	Chilled	300g (11oz)	As above	2 mins 30 sec	3 mins 15 sec
Beef Stroganoff & Rice	Chilled	375g (13oz)	As above	2 mins 30 sec	2 mins 40 sec
BBQ Ribs	Chilled	375g (13oz)	As above	2 mins	3 mins
Rice/Pasta	Chilled	225g (8oz)	As above	45 sec	1 min 30 sec
SAVOURY	BREAD AND PA	STRY			
Dinner Roll(s)	Chilled	1 2	Place on the turntable, uncovered As above	5 sec 10 sec	10 sec 20 sec
Croissant(s)	Chilled	1 2	As above As above	4 sec 6 sec	9 sec 11 sec
Garlic Bread	Chilled	250g (9oz)	As above	20 sec	40 sec
Pizza Slice	Chilled Frozen	125g (5oz) 100g (4oz)	Place on a plate, uncovered As above	25 sec 50 sec	40 sec 1 min 5 sec
Pizza - small	Chilled Frozen	75g (3oz) 100g (4oz)	As above As above	15 sec 50 sec	30 sec 1 min 5 sec
Pizza - large	Chilled Frozen	400g (14oz) 400g (14oz)	As above As above	1 min 2 mins	1 min 30 sec 3 mins 40 sec
Meat Pie - small	Chilled	125g (5oz)	Place on a plate, uncovered Stand for 2-3 minutes	30 sec	50 sec
Meat Pie - large	Chilled	450g (1lb)	Place on a plate, uncovered Stand for 3-4 minutes	1 min 10 sec	1 min 50 sec
Quiche - slice	Chilled	125g (5oz)	Place on a plate, uncovered Stand for 2-3 minutes	30 sec	30 sec
Quiche - whole	Chilled	540g (1lb 4oz)	Place on a plate, uncovered Stand for 3-4 minutes	1 min 30 sec	2 mins



FOOD	TEMP	QUANTITY	METHOD	TIME	ATING E ON (100%) R-22AT
SAVOURY	BREAD AND PA	STRY			
Cornish Pastie(s) (175g)(6oz) each	Chilled	1 2	Place on a plate, uncovered As above	35 sec 1 min 10 sec	55 sec 1 min 50 sec
Sausage Roll(s) 75g (3oz) each	Chilled	1 2	Place on a plate, uncovered As above	15 sec 25 sec	30 sec 40 sec
CANNED F	OODS				
Baked Beans	Room	450g (1lb)	Place in a bowl, cover with cling film, stir halfway through cooking	1 min 30 sec	2 mins 10 sec
Sausage & Beans	Room	450g (1lb)	As above	2 mins 10 sec	3 mins
Soup - thick/thin	Room	425g (15oz)	As above	1 min 50 sec	2 mins 30 sec
Hot Dogs	Room	425g (15oz)	Place in a bowl, cover with cling film	1 min 45 sec	2 mins 30 sec
Peas	Room	550g (1lb 4oz)	Place in a bowl, cover with cling film, stir halfway through cooking	2 mins 10 sec	3 mins
Sweetcorn	Room	325g (12oz)	As above	1 min 30 sec	2 mins
Carrots - whole, sliced	Room	540g (1lb 4oz)	As above	2 mins 30 sec	3 mins 20 sec
Tomatoes	Room	400g (14oz)	As above	2 mins 30 sec	3 mins
Asparagus	Room	350g (12oz)	As above	1 min 50 sec	2 mins 30 sec
Green Beans	Room	300g (11oz)	Place in a bowl, cover with cling film, stir halfway through cooking	2 mins 30 sec	3 mins
FRESH VE	GETABLES				
Green Beans	Chilled	125g (5oz)	Place on a plate, uncovered	30 sec	40 sec
Broccoli	Chilled	125g (5oz)	Place on a plate, uncovered	30 sec	40 sec
Carrots - sliced	Chilled	125g (5oz)	Place on a plate, uncovered	30 sec	40 sec
Cauliflower	Chilled	125g (5oz)	Place on a plate, uncovered	30 sec	40 sec
Corn on the Cob	Chilled	200g (7oz)	Place on a plate, uncovered	1 min 10 sec	1 min 45 sec
Peas	Chilled	100g (4oz)	Place on a plate, uncovered	30 sec	45 sec



FOOD	TEMP	QUANTITY	METHOD	TIME	ATING E ON (100%) R-22AT
FRESH VE	GETABLES				
Jacket Potatoes	Chilled	250g (9oz)	Place on the turntable, uncovered	1 min	1 min 45 sec
New Potatoes	Chilled	225g (8oz)	Place on a plate, uncovered	1 min	1 min 45 sec
Brussels Sprouts	Chilled	225g (8oz)	Place on a plate, uncovered	30 sec	40 sec
MEAT POR	RTIONS				
Chicken Portions Leg Breast	Chilled Chilled	1 (300g)(11oz) 1 (400g)(14oz)	Place on a plate, cover with cling film Place on a plate, cover with cling film	1 min 1 min 30 sec	1 min 30 sec 2 mins
Lamb Chops	Chilled	3 (225g)(8oz)	Place on a plate, cover with cling film	1 min 30 sec	2 mins
Pork Chop	Chilled	1 (125g)(5oz)	Place on a plate, cover with cling film	50 sec	1 min 30 sec
Sliced Meat with Gravy	Chilled	1 (225g)(8oz)	Place on a plate, cover with cling film	1 min 30 sec	2 mins 10 sec
Gammon-sliced	Chilled	1(250g)(9oz)	Place on a plate, cover with cling film	55 sec	1 min 20 sec
Trout	Chilled	1(200g)(7oz)	Place on a plate, cover with cling film	1 min	1 min 30 sec
Salmon Steak	Chilled	1(200g)(7oz)	Place on a plate, cover with cling film	1 min	1 min 30 sec



FOOD	TEMP	QUANTITY	METHOD	TIM	ATING E ON (100%) R-22AT
SWEET PO	ORTIONS				
Fruit Crumble	Chilled	175g (6oz)	Place in a bowl, uncovered	35 sec	45 sec
Fruit Crumble with custard	Chilled	275g (10oz)	Place in a bowl, uncovered	1 min	1 min 30 sec
Fruit Pie	Chilled	175g (6oz)	Place in a bowl, uncovered	35 sec	45 sec
Fruit Pie with Custard	Chilled	275g (10oz)	Place in a bowl, uncovered	50 sec	1 min
Sponge Pudding	Chilled	125g (5oz)	Place in a bowl, uncovered	20 sec	35 sec
Sponge Pudding with Custard	Chilled	225g (8oz)	Place in a bowl, uncovered	45 sec	1 min 10 sec
Suet Pudding	Chilled	175g (6oz)	Place in a bowl, uncovered	20 sec	35 sec
Suet Pudding with Custard	Chilled	275g (10oz)	Place in a bowl, uncovered	45 sec	1 min 10 sec
Chocolate Fudge Cake	Chilled	125g (5oz)	Place on a plate, uncovered	15 sec	30 sec

NOTES

- Only serve food which is thoroughly reheated, use a professional food thermometer to ensure acceptable temperatures have been reached throughout.
- O Temperatures referred to in this chart are: *Room*, approx. 20°C, *Chilled*, approx. 5°C, and *Frozen*, approx. -18°C
- O Hygiene see Food Handling & Preparation, Page 15
- O During standing time (where recommended) food should be covered. If covered during reheating, leave covered. If reheated uncovered, cover with foil.
- O The reheating times given above are provided as a guide only. Reheating times will vary according to food weight, quality and initial temperature. Please ensure that food is thoroughly reheated before serving.

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LEANING & MAINTENANCE

WARNING =

- Do not allow grease or dirt to build up on the door seals and adjacent parts as this may prevent the door from closing correctly and may cause a leakage of microwaves. To clean use a mild detergent solution on a soft damp cloth.
- DO NOT OPERATE the oven without the splash cover in place.
- DO NOT REMOVE the splash cover UNLESS THE POWER CORD IS REMOVED FROM THE OUTLET because the rotary antenna, which is located on the ceiling, operates for 1 minute after the door is opened and injury could occur.
- · Keep the ceramic floor clean at all times. If you leave

- grease or fat in the cavily, it may overheat, smoke or even catch fire when next using the oven.
- Never use spray cleaners, oven pads or abrasive scourers as these damage the surface of the oven.
- Do not remove the ceramic floor from the oven.
- Do not use commercial oven cleaners, abrasive or harsh cleaners or scouring pads on any part of your microwave oven.
- Do not sprinkle water onto the oven directly. It may cause electric shock, leakage of electricity or damage of the oven.
- Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the life of the appliance and possibly result in a hazardous situation.

OVEN INTERIOR =

Clean the microwave oven cavity, at the end of each day with a damp soft cloth for hygienic reasons. For heavier soil, use mild soap applied with a soft damp cloth wipe clean ensuring all soap is removed. Make sure that the soap or water does not penetrate through the small vents in the walls which may cause damage to the oven. Take care not to let soapy water drip through the small holes

in the oven walls. Excess water spillage through these holes will cause damage to the oven interior. It is important that the door seals and sealing surfaces are kept clean at all times, wipe regularly with a damp cloth.

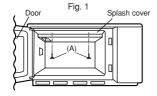
The ceramic floor should be kept clean at all times. Minor spills may be wiped with a damp cloth.

SPLASH COVER =

AT LEAST ONCE A WEEK, REMOVE THE SPLASH COVER AND WASH BOTH SIDES OF IT IN A MILD DETERGENT SOLUTION. A BUILD UP OF GREASE MAY OVERHEAT AND BEGINTO SMOKE AND MAY BURNTHE SPLASH COVER. THE SPLASH COVER IS LOCATED IN THE TOP OF THE OVEN AND MAY EASILY BE REMOVED. REMEMBER TO UNPLUG THE POWER CORD.

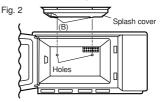
Removal:

- 1. Remove two thumb screws (A) as shown in Fig.1.
- 2. Remove the splash cover from the oven.



Reinstall

- 1. Insert two projections of the cover (B) into the holes of the oven cavity backplate as shown in Fig. 2.
- 2. Secure the cover to the oven ceiling with two thumb screws (A) as shown in Fig. 1.



OVEN LIGHT REPLACEMENT:

Unplug the oven before removing the removable cover to access oven light bulb, and replace the light bulb (25W/240V). Make sure that the cover is secured to the oven cabinet after replacing the light bulb. See page 1.

OUTER CABINET =

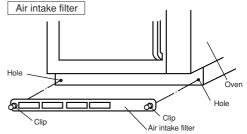
Wipe the outside cabinet with a mild detergent solution on a soft cloth. The control panel must be wiped clean whilst the door is open, therefore inactivating the oven. Keep the air intake filter clean. Clean the air intake filter once every two weeks.

Remove the air intake filter by pulling the two (2) clips on the sides of the filter.

Wash the air intake filter in mild soapy water, rinse and dry with a soft cloth

After cleaning re-install the air intake filter.

Do not operate the oven without the air intake filter in place.





ROUBLESHOOTING

If you think the oven is not working properly there are some simple checks which you can carry out yourself before you call for an engineer. This will help prevent unnecessary service calls if the fault is something simple.

Simply answer "YES" or "NO" to the following questions:

1 Do the oven lamp and fan motor come on for 1 minute when you open the door? YES/NO

Put half a cup of water on the ceramic floor in the oven and close the door. Cook for 1 minute at 100%.

2 Does the oven lamp come on? YES/NO

3 Does the fan motor work? (Check by placing your YES/NO

hand above the air vent openings) 4 After 1 minute does the "Beep" signal sound?

YES/NO

5 And did the heating indicator "ON" go out?

YES/NO

6 Is the water in the cup hot?

YES/NO

If you answer "NO" to any question first check that the oven is plugged in properly and the fuse has not blown, if there is no fault with either, check against the troubleshooting chart below.

↑ WARNINGS:

- Never adjust, repair or modify the oven yourself, or allow anyone other than a Service Technician, appointed by SHARP to carry out the service.
- The door seal stops microwave leakage during oven operation, but does not form an airtight seal. It is normal to see drops of water, light or feel warm air around the oven door. Food with a high moisture content will release steam and cause condensation inside the door which may drip from the oven.
- · Repairs & Modifications: Do not attempt to operate the oven if it is not working properly.
- Outer Cabinet & Lamp Access: Never remove the outer cabinet. This would be very dangerous due to high voltage parts inside which must never be touched, as this could be fatal. As your oven has a removable cover over oven light bulb, it is possible for you to replace the light bulb yourself with care. The light bulb can be purchased from Sharp Electronics (U.K.) Ltd. See page 30. Unplug the oven before replacing the light bulb.

PROBLEM	POSSIBLE CAUSE
Draught circulates around the door.	When oven is working, air circulates within the cavity. The door does not form an airtight seal so air may escape from the door.
Condensation forms in the oven, and may drip from the door.	The oven cavity will normally be colder than the food being cooked, and so steam produced when cooking will condense on the colder surface. The amount of steam produced depends on the water content of the food being cooked. Some foods, such as potatoes have a high moisture content. Condensation trapped in the door glass should clear after a few hours.
Flashing or arcing from within the cavity when cooking.	Arcing will occur when a metallic object comes into dose proximity to the oven cavity during cooking. This may possibly roughen the surface of the cavity, but would not otherwise damage the oven.
Arcing potatoes.	Ensure all "eyes" are removed and place in a heat resistant flan dish or similar.
After setting the time, the oven does not start.	Check the door is closed properly.
Oven cooks too slowly.	Ensure correct power level has been selected.
Oven makes a noise.	The microwave energy pulses ON/OFF during cooking/defrosting.
Outer cabinet is hot.	The cabinet may become warm to the touch - keep children away



O REPLACE THE MAINS PLUG

The wires in the mains cable are colour coded as shown opposite:

As the colours of the cores in the mains lead of your oven may not correspond with the coloured marking identifying the terminals in your plug, connect the wires as shown:

Make sure the terminal screws are tight and the cable is held securely by the cable grip where it enters the plug. Like most appliances in your home, your oven must be connected to a single phase 230-240 Volt, 50Hz alternating current supply.

If you do not make the proper electrical connections you might damage the oven or injure yourself. Neither SHARP nor the supplier will be liable if this happens.

green and yellow stripes = EARTH
blue = NEUTRAL
brown = LIVE

- The green and yellow wire to the plug terminal marked E or

 or coloured green or coloured green and yellow.
- The blue wire to the plug terminal maked N or coloured black or coloured blue.
- The brown wire to the plug terminal marked L or coloured red or coloured brown.

↑ WARNING:

THIS APPLIANCE MUST BE EARTHED.
IF YOU HAVE ANY DOUBTS ABOUT YOUR
ELECTRICAL SUPPLY ASK A QUALIFIED
ELECTRICIAN.

C

ALLING FOR SERVICE

- If you are unable to resolve a problem using the checks covered on the last few pages, do not attempt to service this microwave oven yourself.
- Contact the dealer or supplier from whom the oven was purchased in order to obtain service. Where this is not possible, please contact the SHARP Customer Information Centre, telephone: 08705 274277 (office hours).
- For general information & assistance with oven queries, please contact our

Customer Information Centre:

 U.K.:
 08705 274277 (office hours)

 Ireland:
 01 676 0648 (office hours)

 Website:
 http://www.sharp.co.uk/support

 Replacement accessories may be obtained from our main parts distributor Willow Vale Electronics Ltd. Telephone: 0121 766 5414

SPECIFICATIONS:

AC Line voltageAC Power required	R-24AT : 2.9kW
Output power	R-24AT : 1900W (IEC 60705)
Microwave frequency Sound level	2450MHz* (Group 2 / Class B)
Outside dimensions	(Single)
	510(W) x 670(H) x 470(D) mm (Two ovens stacked)
Cavity dimensions Oven capacity	
Cooking uniformity Weight	

* This Product fulfils the requirement of the European standard EN55011. In conformity with this standard, this product is classified as group 2 class B equipment. Group 2 means that the equipment intentionally generates radio-frequency energy in the form of electromagnetic radiation for heating treatment of food. Class B equipment means that the equipment suitable to be used in domestic establishments.

(This product is designed for commercial application only and as such it falls outside the scope of Regulation (EC) 1275/2008 implementing EU Directive 2005/32/EC on eco-design requirements for standby and off mode electric power consumption. Sharp do not recommend the product for domestic application and will not accept any liability for such use.)

- As part of a policy of continuous improvement, we reserve the right to alter design and specification without notice.
- No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form, electronic, mechanical, photocopied, recorded, translated or other means without prior permission from SHARP Electronics (U.K.) Ltd.
- The illustrations, technical information and data contained in this publication to our best knowledge, were correct at
 the time of going to print. The right to change specifications, at any time, without notice, is reserved as part of our
 policy of continuous development and improvement.



Attention:

Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these

products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*.

In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.

*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal. For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

Manufacturer: SHARP Corporation

22-22, Nagaike-cho, Abeno-ku, Osaka 545-8522, Japan

Authorised Representative: SHARP Electronics Europe Ltd.

4 Furzeground Way, Stockley Park, Uxbridge, Middlesex, UB11 1EZ, UK

