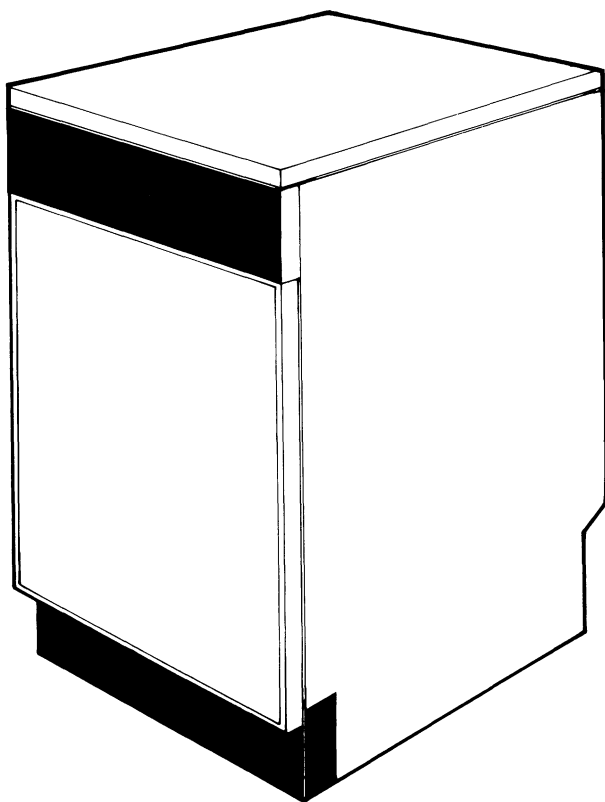


F31

INSTRUCTION THE USE AND C ZANUSSI DISHWASHERS

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F31

MODEL No DS 21 TCR

ZANUSSI
The appliance of science

It is most important that this instruction book should be retained with the appliance for future reference. Should the appliance be sold or transferred to another owner, or should you move house and leave the appliance, always ensure that the book is supplied with the appliance in order that the new owner can be acquainted with the functioning of the appliance and the relevant warnings.

Dishwasher warnings

THESE WARNINGS ARE PROVIDED IN THE INTEREST OF SAFETY. YOU MUST READ THEM CAREFULLY BEFORE INSTALLING OR USING THE APPLIANCE.

Unplug the appliance and turn off the water after use.

Any plumbing work to install this appliance should be carried out by a qualified plumber or competent person.

Any electrical work required to install this appliance should be carried out by a qualified electrician or competent person.

This appliance is designed to be operated by adults. Children should not be allowed to tamper with the controls or play with the products.

This product should be serviced by an authorised Zanussi Network Service Centre, and only genuine Zanussi spare parts should be used.

It is dangerous to alter the specifications or modify the product in any way.

Care must be taken to ensure that the appliance does not stand on the electrical supply cable.

Zanussi dishwashers are designed to be used for washing normal household utensils. Items that are contaminated by petrol, paint, steel or iron debris, corrosive, acidic or alkaline chemicals are not to be washed in a dishwasher.

When finishing loading or unloading close the door, as an open door can be a hazard.

If your house is fitted with a water softening unit, it is not necessary to add

salt to the water softening unit in the dishwasher.

Do not put in your dishwasher: Cutlery with wooden or horn handles or glued parts, bronze cutlery, saucepans with wooden handles unless they are sold as dishwasher proof, aluminium ware, crystal ware, leaded glass, plastic articles unless sold as dishwasher proof, antique china or fine decorated china unless sold as dishwasher proof. Always check with the manufacturer of the item if in any doubt.

A chemical reaction can occur between silver cutlery and stainless steel cutlery. As a precaution do not wash together.

Under no circumstances should you open the door whilst the appliance is in operation. Always turn off the appliance before opening the door.

Care should be taken when cleaning the bottom door seal and hinge area as any exposed metal edges may cut if care is not observed.

Built-in dishwashers only: The appliance must be secured to the underside of the worktop using the brackets provided. Failure to do this could result in an unstable appliance which may cause damage or injury.

Under no circumstances should you attempt to repair the appliance yourself. Repairs carried out by inexperienced persons may cause injury or more serious malfunctioning. Refer to your local Zanussi Network Service Centre. Always insist on genuine Zanussi spare parts.

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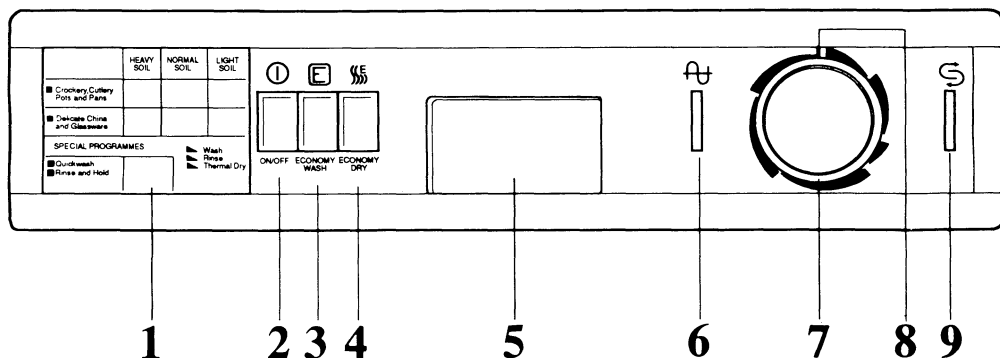
Please note that the specifications of your appliance may differ slightly from those shown in this leaflet.

Specifications

Width	450mm 17.7"
Overall depth	570mm 22.4"
Overall depth with door open	1200mm 47.2"
Height	850mm 33.5"
Capacity (IEC place settings)	8
Supply voltage	220/240V 50Hz
Motor rating	
During washing	200W
Heater element	2570W
Maximum power absorbed	2770W
Water supply pressure	
Minimum	7psi 49kN/sq.m.
Maximum	110psi 758kN/sq.m.

Door Decor panel size

Width	Height	Thickness
436mm	592mm	4mm (max)



- 1** - Programme guide
- 2** - On/Off button
- 3** - Economy wash button
- 4** - Economy drying button
- 5** - Door handle
- 6** - Mains on indicator
- 7** - Programme Selector
- 8** - Programme Marker
- 9** - Salt refill indicator

Please note that the external appearance of your appliance may differ slightly from that shown in the instruction book.

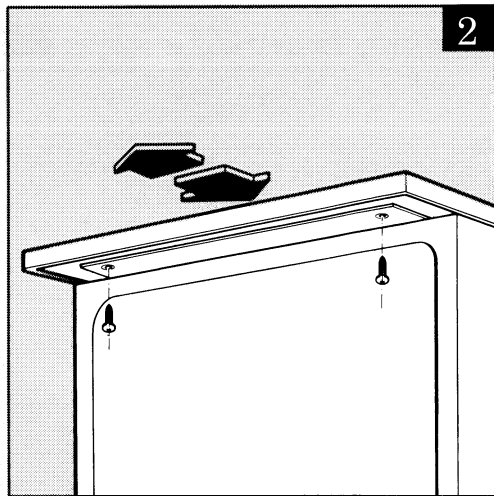
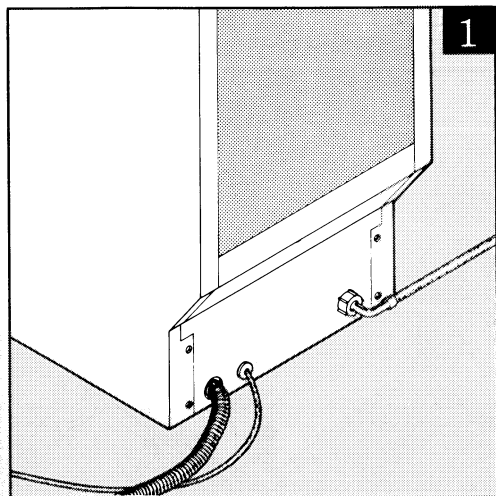
Installation

Positioning

Apart from the need to position your dishwasher close to an existing water supply and waste outlet — long runs of new piperwork can be expensive — you can put it almost anywhere you please; either on its own, or incorporated into a run of «standard» metric kitchen units. If you choose the latter option, you will find that the machine has a number of useful features making it easier to blend in with the units.

Firstly, the machine can be set hard against walls and adjacent units — there is no need to leave a gap all round, and the dishwasher features fill and drain hoses which can be turned to the right or left to suit the installation (see fig. 1).

Secondly, the integral worktop may be adjusted by up to 25 mm (1 inch), either forwards or backwards, to align it with any adjacent units' worktops. To do this, simply remove the screws from the brackets beneath the worktop's front lip (see fig. 2), make the desired re-alignment,



and replace the screws to fix the worktop in place.

Alternatively, if you prefer to install the machine beneath an existing worktop, the machine's integral worktop can be removed merely by removing the front securing screws as above, and releasing the worktop from its rear catch. This done, the dishwasher will fit into a recess of the dimensions given in figure 3.

Important

Please ensure that when the appliance is installed it is easily accessible for the engineer in the event of a breakdown.

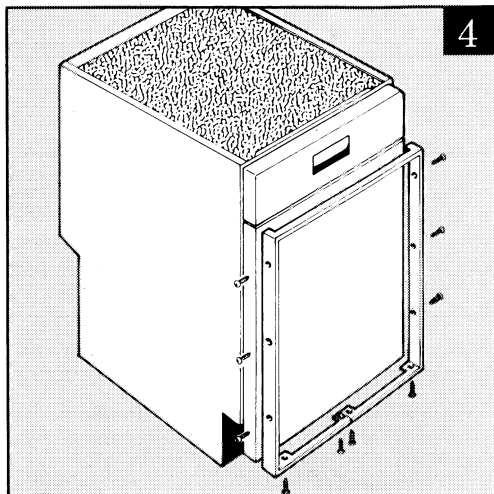
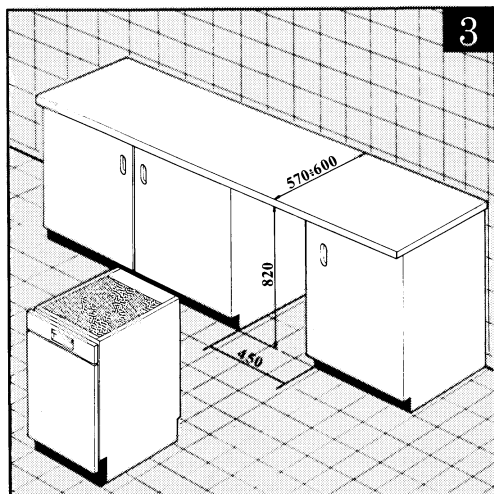
Building-in instructions

Fitting «decor panel»

To give the dishwasher a completely «built-in» look, the door can be covered with a sheet of plastic laminate (you must provide this yourself) to match the doors of adjacent units.

To fit this «decor panel», remove the metal trim screwed to the door, fit the covering sheet of plastic laminate, and clamp it in position by replacing the metal trim.

Please note: the decor panel should be fitted **before** building the appliance in.



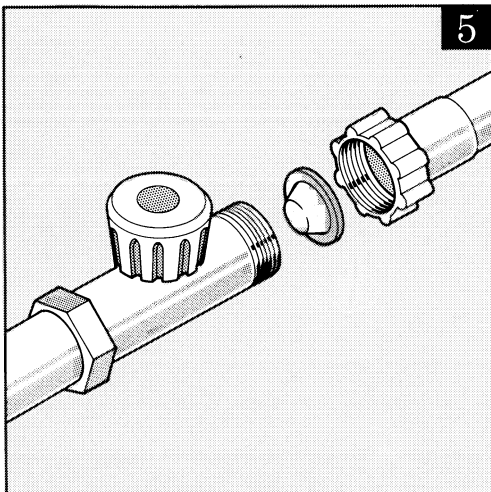
Water supply connections

The dishwasher must be plumbed into a cold water supply and it is preferable for it to be permanently plumbed in.

The water pressure must be within the limits given in the technical data, as it will not function correctly if the pressure is outside these specifications.

Your local Water Authority will advise you on the average mains pressure in your area. Where the water is supplied via a cold water storage cistern, you can work out the pressure yourself by measuring the vertical distance (or «head») between the machine's inlet hose and the outlet from the cold water storage cistern, allowing roughly 1 psi for every 2 feet.

As to the making of the connection itself, the coupling nut fitted to the machine's supply hose is designed to screw onto either a 3/4 inch gas thread spout, or to a purpose made quick-coupling tap such as the Press-Block. To make this easier, the hose itself may be turned to the right or left. In either case, be sure to incorporate the strainer supplied with the machine onto the joint (fig. 5).



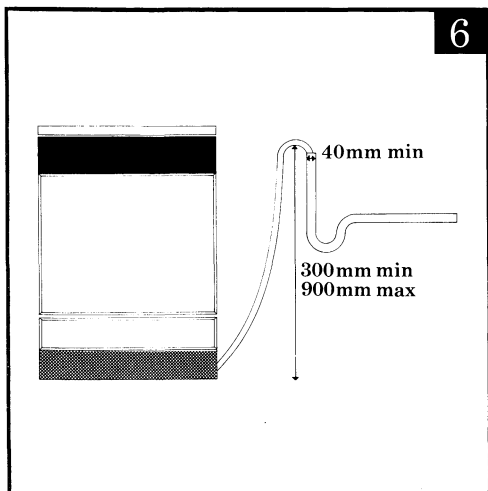
Waste connections

Care must also be taken over the disposal of the waste water from the machine. If your dishwasher is not to be permanently «plumbed in», merely hook the curved end of the drain hose firmly over the edge of the kitchen sink, having made sure that the sink is empty, and that the waste outlet is not blocked.

Otherwise, fit a P-trap and stand-pipe assembly like that in figure 6 (ensure the pipe has an internal diameter of at least 38 mm (1 ½ ins), and hook the drain hose into that). In this case ensure that there is an air gap between the hose and the inside of the pipe to prevent the risk of dirty water being syphoned back into the machine, and check that the top of the stand-pipe is between 300 and 900 mm above floor level. In addition, make sure

that the stand-pipe/trap assembly discharges into the same soil system as the kitchen sink.

With the machine in its permanent position, do check that the drain hose is not kinked, or squashed in such a way as to obstruct the flow of water.



Electrical connections

WARNING: THIS APPLIANCE MUST BE EARTHED. The manufacturer declines any liability should this safety measure not be observed.

If the plug that is fitted to your appliance is not suitable for your socket outlet, it must be cut off and the appropriate plug fitted.

The cut off plug should be disposed of to prevent the hazard of electric shocks in case it should be plugged into a 13 Amp socket in another part of your home.


IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

GREEN AND YELLOW - EARTH

BLUE - NEUTRAL

BROWN - LIVE

If you fit your own plug, the colours of the wires in the mains lead of your appliance may not correspond with the markings identifying the terminals in your plug, this is what you have to do:

Connect the green and yellow (earth) wire to the terminal in the plug which is marked with the letter «E» or the earth symbol , or coloured green, or green and yellow.

Connect the blue (neutral) wire to the terminal in the plug which is marked with the letter «N» or coloured black.

Connect the brown (live) wire to the terminal which is marked with the letter «L» or coloured red.

The plug moulded on to the cord incorporates a fuse. For replacement use a 13 Amp BS 1362 fuse. Only ASTA approved fuses should be used.

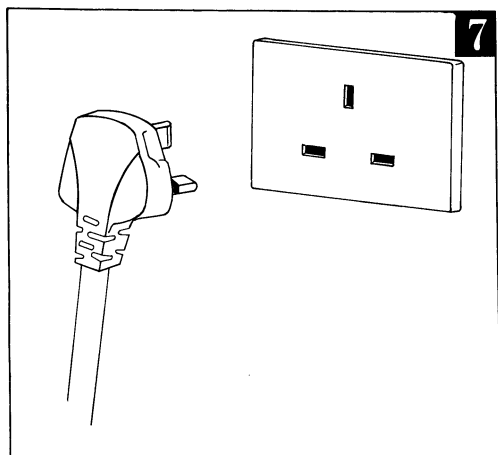
The fuse cover/carrier must be replaced in the event of changing fuse.

The right fuse cover/carrier colour is the one shown by the coloured insert at the base of the plug or is the colour of the inscription at the base of the plug.

The plug must not be used if the fuse cover/carrier is lost.

A replacement cover/carrier must be obtained from Zanussi Service Agents whose addresses are listed on the attached «Zanussi Service and Spares Nationwide».

THIS APPLIANCE COMPLIES WITH
E.E.C. DIRECTIVE NO 87/308 OF 2.6.87
RELATIVE TO RADIO INTERFERENCE
SUPPRESSION.



User instructions

Getting to know your machine

Controls and How to Use Them (see diagram page 6)

2 On/Off Button

Press to start, press to switch off.

3 Economy Wash Button

This allows you to select a high or low water temperature. The water will normally heat up to 65 °C which is the temperature required for energetic wash programmes (see Wash Programmes page 22). If one of the gentle programmes is required, press the button and the water will heat up to 55 °C only. Press the button to release the switch and return to normal (65 °C).

4 Economy Drying Button

Press this button to reduce the drying temperature from 65 °C to 55 °C. Please note that the crockery will take longer to dry than normal.

5 Door Handle

6 Mains-on Indicator

This light will come on when the On/Off button is pressed and the machine starts to operate. It will not go out until the switch is pressed to turn the machine off, once the dishwashing cycle has been completed.

7 Programme Selector Dial

This is marked with the letters A,B,C,D and should be used in conjunction with the details given in the wash programme chart (page 22) and programme guide (1) on fascia of the appliance.

To set the appliance to the chosen programme, push the Programme Selector Dial in to make it pop out and then turn it clockwise until the programme letter corresponds with the red line 8 on the fascia.

9 Salt Refill Indicator

The indicator shows when the salt container needs refilling (see page 14).

Using your machine

Open the machine by pulling the handle outwards.

To close the door push it back until you feel it clicks.

Water Softening

The dishwasher has a completely automatic water softener fitted to it and you only need to refill salt container with coarse salt after approximately 40 washes.

The water softener stops limescale and mineral salts from entering the wash water thus preventing whitish marks appearing on the crockery.

Softened water improves the cleaning action and, after rinsing, the crockery and glassware should look clean and shining.

Filling the Salt Container

Prior to using the dishwasher for the first time it is necessary to fill the salt container with water in order that the initial loading of salt is dissolved.

To do this open the door and slide out the bottom basket. Unscrew the cap in the base of the dishwasher (fig. 8) and, using the funnel supplied fill the salt container with water. Next (again using funnel) pour into the same container 1 Kg (2 lb) of coarse salt.

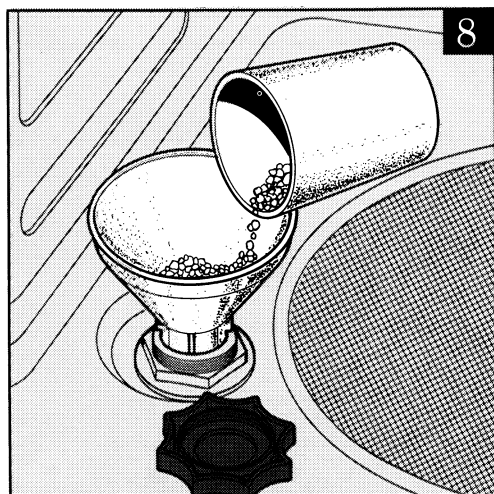
Replace the cap making sure that there is no trace of salt on the thread of the screw or on the gasket. Screw the cap on tightly.

Use only coarse salt (which is often available from garden centres) or salt sold specifically for dishwashers.

Always refill the container immediately before starting a complete wash cycle, (not before Rinse and Hold) so that any salt granules or salt water which may flow out of the container (which will always have some water in it) during the refilling will not remain on the bottom of the tub without being properly diluted.

Salt Refill Indicator

This model features a refill indicator on the control panel. When it lights up, which will be approximately every 40 washes, the water softener needs refilling with salt.



Adjusting the Water Softener

Water hardness will vary according to the area in which you live. The more limestone and mineral salts your water contains, the harder it will be. Ask your local Water Board to tell you the degree of water hardness in your area.

This appliance is fitted with Water Softening Unit which the user may adjust to suit his or her own needs.

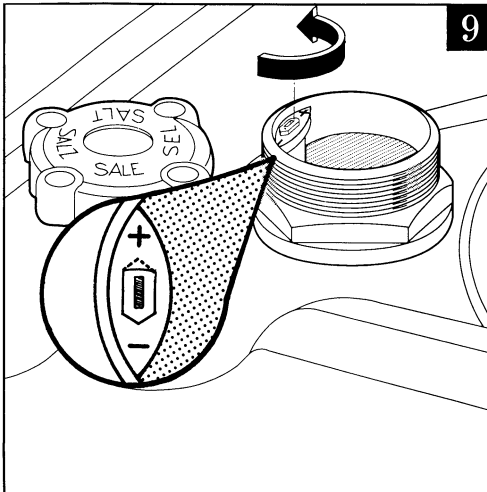
It is preset for water having a maximum hardness of 27 Clarke degrees.

This setting is designed to suit most of the field requirements.

If the water hardness exceeds 27 Clarke degrees (up to a maximum of 42 Clarke degrees), proceed as follows:

slide out the lower basket and unscrew the cap of the salt container.

With a screw-driver or a knife turn by 180° anti-clockwise the 2-positions selector from position — to position +.



Rinse Aid

This liquid gives the dishes a shiny finish and improves drying. It is automatically added during the hot rinse.

The dispenser, which is positioned inside the door, holds about 110 ml of rinse aid, which is sufficient for 16-40 dishwashing programmes, depending upon the dosage setting.

Filling with Rinse Aid (fig.10)

- Open the container by turning the lid (A) anticlock-wise.
- Add rinse aid until the container is completely full (approx. 110 ml).
The indicator (B) will be completely dark.
- Add rinse aid again when the indicator (B) becomes clear.

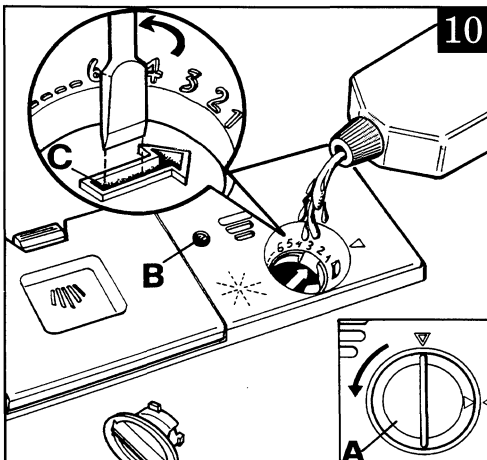
Remember to CLOSE the lid after every refill.

Caution

Clean up any rinse aid spilt during filling with an absorbent cloth to avoid excess foaming during the next wash.

Adjusting the Dose

According to the finish and drying results obtained, adjust the dose of rinse aid by means of the 6 position selector (C) (position 1 - minimum dose, position 6 - maximum dose). Gradually increase the dose if there are drops of water or lime spots on the dishes after washing. Reduce it if there are sticky whitish streaks on the dishes.



Loading the Machine

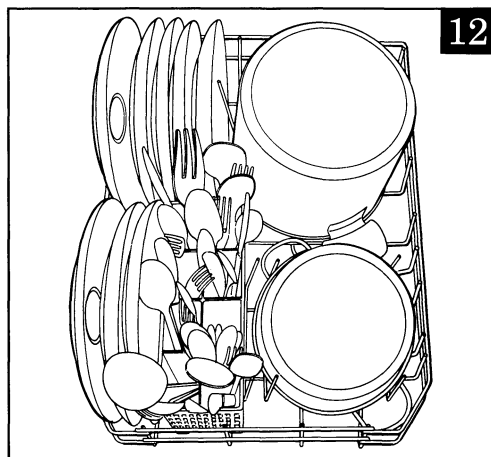
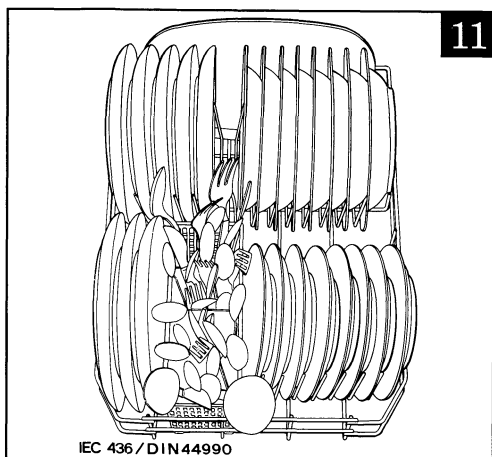
Most tableware, cutlery and cookware can be safely washed in the dishwasher. Check the list on page 25 and do not put these items in the machine. Remove bigger scraps of food from the plates and dishes; eg small bones, fish bones, scraps of meat and vegetables — in fact anything that can be scraped off easily. This will prevent the filter from clogging. There is no need to rinse the crockery before putting it in the machine.

Open the door by pulling the handle outwards.

Slide each basket out to load it.

The lower basket is designed to take dinner plates (up to 27 cm — 10.6 ins — diameter), serving dishes, cooking bowls, pots, pans and cutlery. Cutlery should be put in the removable cutlery basket.

Mix spoons with knives and forks so that they will not stick together and prevent the jets of water cleaning them properly. Unless your cutlery has very thin handles, put it in the basket with the handles downwards. If the handles are so thin that they stick through the bottom of the basket, load them with the handles upwards. The two diagrams (fig. 11 and 12) show how items can be arranged in the bottom basket.

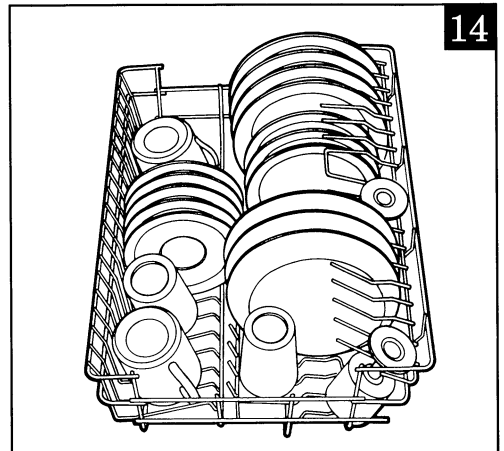
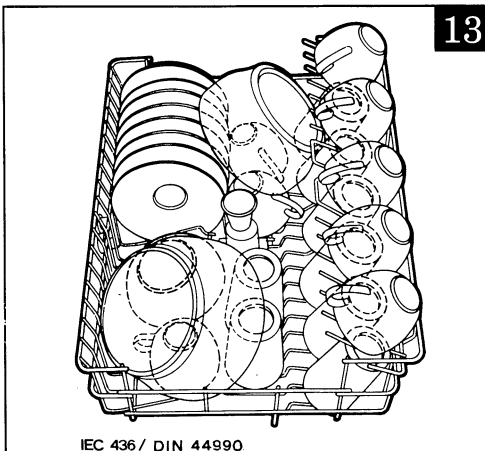


The top basket is designed to take dessert plates, tea plates, saucers, soup plates (up to 24 cm — 9.4 ins — diameter), serving dishes, cups, mugs and glasses. The two diagrams (fig. 13 and 14) show how items can be arranged in the top basket.

Important

Be absolutely sure not to load the crockery in such a way that it obstructs the water inlet funnel at the centre of the basket.

After loading make sure that the spray arm can turn freely.

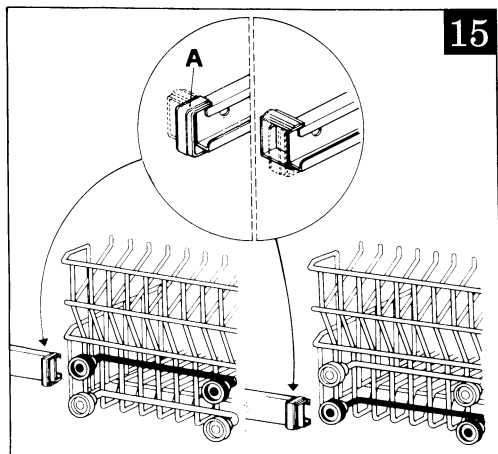


Top basket raising & lowering

If very big plates (over 27 cm and up to 31 cm diameter) are normally used, the top basket will have to be raised to the upper position. This will make it possible to properly arrange these extra large plates in the bottom basket.

To raise the top basket, remove the basket itself after moving the front stops outward (fig. 15). Place the basket on the higher position and replace the stops in the original position.

With the top basket on this upper position there is of course less loading clearance in the basket itself (which will in fact only take dishes up to 19 cm) and this will also prevent utilization of the basket's raised cup compartments.

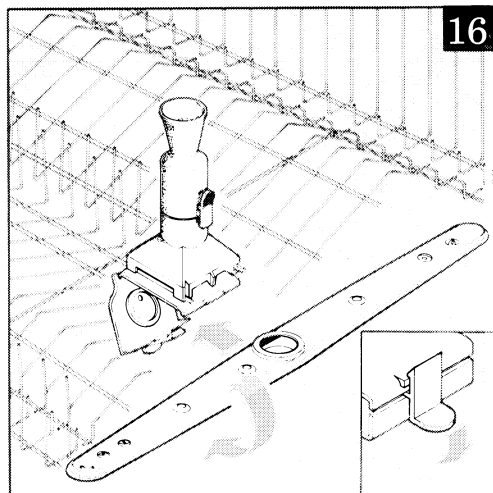


Reversible spray arm

If a small load of heavy soiled crockery is to be washed, this can be placed only into the bottom basket. At the same time the upper spray-arm position should be reversed as per fig. 16.

To do so, unhook the upper spray-arm from the central support and re-fit it in a reverse position (holes on the bottom). In this way the wash efficiency is improved, as the bottom basket is sprayed by both arms.

When the wash is completed, do remember to reset the upper arm to the original position (holes on the top).



Use of Detergent

Before beginning any of the dishwashing programmes, except for the rinse and hold programme, load the detergent in the dispenser.

Use only tablets, powder or liquid detergents specifically designed for domestic dishwashers.

Unsuitable detergents (such as those for washing by hand) do not contain the right ingredients for machine washing and hamper correct functioning of the machine. To open the dispenser lid, pull the catch (D). This will open it (fig.16).

At the end of any washing programme the lid is always open, ready for the next wash. The amount of the detergent to be used varies depending on how soiled the dishes are and the type of dishes being washed. We recommend the amounts shown in the programme chart.

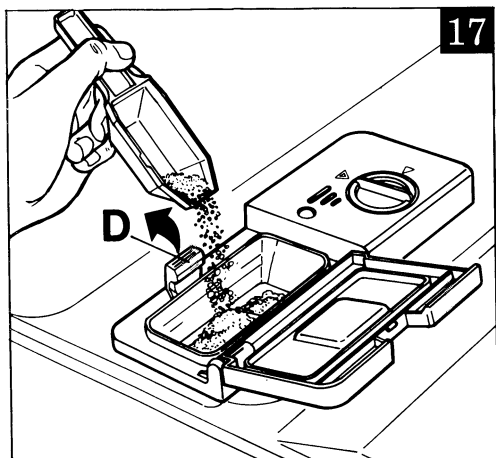
After filling the dispenser with detergent, close the lid.

Since not all the detergents are the same, you should also consult the instructions on the packet.

Remember that insufficient quantities of detergent will produce poor washing results whereas an excessive amount of detergent does not improve washing results and is also wasteful.

Using no more than the correct amount of detergent also contributes to reducing pollution.

Zanussi recommends the use of Finish dishwasher detergent.



Programme Selection

The chart on page 22 gives details of the programmes which your machine is designed to carry out. You will soon discover which programmes suit your type of washing up.

If you half load the machine and want to make up a full load later in the day after another meal, use the rinse and hold programme.

Starting the Machine

Turn on the water tap which supplies the machine. Make sure that the machine is plugged into the electric socket and that the switch (if any) is on.

Close the door of the machine firmly after loading it and adding the detergent.

Push the Programme Selector Dial in to make it pop out. Then turn it clockwise, making sure that the programme letter you wish to select corresponds with the red marker (8).

If required, press the Economy wash button and/or Economy drying button.

Note

It is important to press the buttons in the order shown on the wash cycle chart. The On/Off button must always be pressed last (see wash programmes).

Stopping the Machine

The machine will stop automatically at the end of the wash cycle, and you will see a grey bar lined up with the red bar. The pilot light will remain on until the On/Off button is pressed.

To stop the machine during a wash cycle, press the On/Off button.

To restart the machine press the On/Off button again and the wash cycle will resume where it was interrupted.

At the end of a selected programme, the water and electricity supplies should be turned off to ensure complete safety when the machine is left unattended.

If the appliance is able to be operated on the Electricity Board's (Economy) system then you should turn off the water and electricity supplies as soon as possible upon completion of the selected programme.














Warning

Do not open the door while the machine is working. There is a safety device incorporated which automatically stops the machine if it is opened accidentally.

Emptying the baskets.

You are advised to empty the lower basket first and the upper one. This will avoid any drops of water falling from the upper basket onto the contents of the lower basket.

Washing programmes

Type of Load	Degree of Soil	Programme knob setting	Required Pushbuttons	Cycle Description	Recommended quantity of detergent
*Crockery, Cutlery, Pots & Pans	Heavy soil	A		Cold Prewash / Main wash up to 65 °C / 1 cold rinse / 1 hot rinse / Hot air drying	2 level dessert spoons (20 g)
Crockery, Cutlery, Pots & Pans	Normal soil	B		Main wash up to 65 °C / 1 cold rinse / 1 hot rinse / Hot air drying	2 level dessert spoons (20 g)
Crockery, Cutlery, Pots & Pans	Light soil	A 		Cold prewash / Main wash up to 55 °C / 1 cold rinse / 1 hot rinse / Hot air drying	1 heaped dessert spoon (15 g)
Delicate China and Glassware	Heavy soil	A 		Cold prewash / Main wash up to 55 °C / 1 cold rinse / 1 hot rinse / Hot air drying	1 heaped dessert spoon (15 g)
Delicate China and Glassware	Normal soil	B 		Main wash up to 55 °C / 1 cold rinse / 1 hot rinse / Hot air drying	1 heaped dessert spoon (15 g)
**Delicate China and Glassware	Light soil	D 		Main wash up to 55 °C / 2 cold rinses	1 level dessert spoon (10 g)
**Crockery and Cutlery	Quickwash	D 		Main wash up to 55 °C / 2 cold rinses	1 level dessert spoon (10 g)
Any	Rinse & Hold	C		Cold rinse	
Economy drying					If you require this type of drying, depress the relevant button.

*This programme is equivalent to IEC 436 Standard.
**Note: This is a special programme to wash in a short time (approx. 24 minutes) a full load of lightly soiled dishes, glasses and crockery (except pots) so that you may re-use them promptly. Due to the shortness of this programme, no drying phase is provided.

Taking Care of Your Machine

Important

Make sure that the machine is unplugged and the water turned off before undertaking any kind of maintenance.

Please note, when moving house make sure that the machine is not tilted too much during transport.

General Cleaning

Inspect the filters and spray arm nozzles before re-loading the machine and remove any food scraps. Wipe round the rubber gasket at the bottom of the door to remove grease which tends to collect there.

Cleaning the Filters

It is essential to clean the filter system regularly. It can easily get clogged with scraps of food which will cause the machine to work inefficiently.

There are three filters (see fig. 18 below), one large circular fine-mesh filter (A) and two small cone-shaped ones (B & C).

Inspect, and if necessary clean, the cone shaped filters (C fits inside B) after each wash cycle. Remove them both by lifting the outer one (B) up.

Then remove the inner one (C) by squeezing the two plastic tongues at the bottom of the outer filter (B).

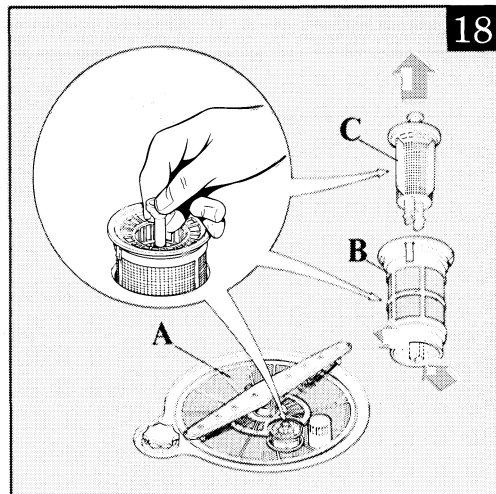
Remove any food scraps and clean thoroughly with a stiff saucepan brush and hot sudsy water.

The large fine mesh filter (A) is cleaned automatically during the wash cycle by two extensions on the bottom spray arm. These extensions direct two jets of water down the filter which wash any food debris into the conical filter where they are trapped. However the filter should be removed and thoroughly cleaned every now and then. To remove the filter (A), first take off the bottom spray arm by releasing the catches (D-Fig. 19) and lifting it up. Release the filter by turning the base of the spray arm in an anti-clockwise direction (E-Fig. 19), then lift it out.

Clean it with a stiff saucepan brush and hot sudsy water. Replace the filters and the spray arm making sure that all the parts are securely in position.

Important

Never use the dishwasher unless the filters and spray arm are firmly in the correct position.



Cleaning the Spray Arm Nozzles

The holes in the spray arm nozzles must be kept free of scraps for the efficiency of the washing action. Inspect the spray arms regularly. When thorough cleaning is necessary remove the bottom spray arm by releasing it from its securing catches and pulling it out (see fig. 18).

Wash the spray arm in hot sudsy water, using a stiff saucepan brush if necessary to remove scraps. Reassemble carefully, making sure the catches are secure.

To clean the top spray arm and nozzles, slide out the top basket, then unhook the spray arm from the central support (see fig. 16).

Remove and wash the parts as above. Reassemble the parts carefully.

Cleaning the Cabinet

Wipe the outside of the cabinet and control panel regularly with a soft damp cloth. When necessary use a liquid kitchen or household cleaner to remove bad marks, rinse with a damp cloth and rub up with a soft duster. Never use abrasive cleaners which could damage the surface.

Care should be taken when cleaning the bottom door seal and hinge area as any exposed metal edges may cut if care is not observed.

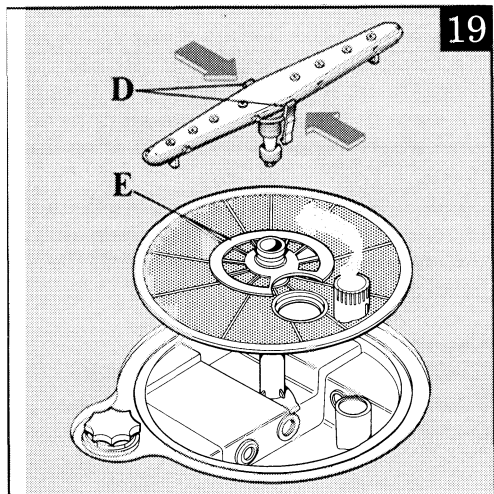
If the machine is not going to be used for some time take the following precautions:

Unplug the machine and turn off the water supply.

Fill up the rinse aid container.

Make sure that the tub is clean by carrying out the Rinse and Hold programme and then dry the inside thoroughly.

Leave the door ajar.



Making the most of your Machine

- Be careful always to load the racks correctly.
- It is more economical and efficient to wash a full load of crockery etc than a half one, even if you only have to do this once a day.
- Load the baskets immediately after clearing the table. If the crocks etc are greasy and there are not enough to justify doing a full cycle, set the machine to do the Rinse and Hold programme.
- Once the machine is full, select the correct programme and wash a load.
- If you have to buy more crockery, pots and pans check that they are «dishwasher proof». This will be marked on the crockery, on the packing material, or in the brochure or leaflet. If in doubt ask the retailer.
- Silver tableware and cutlery can be washed safely in the dishwasher but make sure it is not touching any stainless steel items. If it is, there could be a chemical reaction between the two metals caused by the oxidizing effect of soapy water resulting in spots on the silver.
As a precaution never put silver and stainless steel in the same basket.
- Saucepans and casseroles with burnt on food should be soaked before you put them in the machine and the worst of the soil should be removed as it soaks off.
- Saucepans and casseroles free of burnt on food can be machine washed very satisfactorily.

Do Not Put the Following in Your Dishwasher

- Cutlery with wooden or horn handles or glued parts.
- Saucepans with wooden handles unless they are sold as dishwasher proof.
- Aluminium ware.
- Crystal ware.
- Plastic articles unless they are sold as dishwasher proof - if you do not know don't risk it as the plastic may soften and the article will be distorted and spoiled.
- Fine decorated and antique china. Most modern china has what is known as underglaze decoration and this is usually dishwasher proof but you should always check. Old china and some modern fine china has overglaze decorations which can wash off in a dishwasher so don't take risks if you have not got the manufacturer's assurance.

Servicing

If, having followed these instructions carefully, your machine fails to work properly, contact your local Zanussi Service Network. Before you do that, though, it is worth making a few simple checks yourself.

If the machine won't start...

- Make sure the appliance is properly plugged in and that the socket switch is in the «on» position.
- Check that there is power in the socket, by plugging in an appliance which you know to be working - a small lamp for example. If this too fails to work, check the main circuit fuses in your home's consumer unit or the main fuse box.
- Make sure the water tap is fully open.
- Check that the door is firmly shut.
- Check that you have set the programme selector knob correctly and pressed the start button.

If the machine won't fill...

- Make sure tap and stop cock are turned on.
- Make sure the supply hose is not sharply bent.

If the machine won't drain...

- Check that the drain hose is not bent, blocked, or obstructed in any other way.
- Make sure that the filter is not clogged.

If the crockery does not come out clean...

- Make sure that you are using a detergent specially made for dishwashers.
- Make sure that you are using enough detergent.
- Check that you have loaded the crockery etc correctly.
- Check that the spray arms are able to turn freely and that the nozzles are not blocked or obstructed.
- Make sure that the filter is clean.

If you find the crockery streaked with lime deposits...

- Check that there is enough salt in the container.
- Check that there is enough rinse aid in the container.
- Make sure that the quantity of rinse aid being dispensed is sufficient (see page 16).

If you find traces of tea and coffee or lipstick left on the crockery...

- Make sure you are using enough detergent.

If you think that the crockery or cutlery has a salty taste...

- Make sure that the cap of the salt container is tightly screwed down.

If the machine vibrates badly or is too noisy...

- Check that the machine is absolutely level.
- Check that there is sufficient clearance between the machine and nearby walls, cabinets etc.

- **The crockery is not completely dry**

If the crockery remains in the machine for a long period of time after washing, condensation may occur on the inner walls of the dishwasher and on the crockery itself.

**IN-GUARANTEE CUSTOMERS
SHOULD ENSURE THAT THE
ABOVE CHECKS HAVE BEEN
MADE AS THE ENGINEER WILL
MAKE A CHARGE IF THE FAULT
IS NOT A MECHANICAL OR
ELECTRICAL BREAKDOWN.**

*** Please note that proof of purchase is required for any in-guarantee service calls.**

**How to find the telephone number of
your
Zanussi Service Force
listed in this leaflet**

Zanussi Service areas are allocated by postcodes which are listed in alphabetical order for easy reference.

1. Look for the two letters of your address postcode in the far left 'Postcode' column.
2. Match up the number of your postcode against the number listed in the 'Postcode Numbers' column.
3. Look across the column to the Service Force Key Number for your area. Turn to the last page of this directory for the address and telephone number to contact for service which is listed against your key number.

If you are unsure of your postcode, the main towns and cities are listed in alphabetical order for easy reference.

Additionally, your local Zanussi Service Force Centre telephone number is listed under 'Z' in your telephone directory.

The Customer Care Department at Zanussi House, Hambridge Road, Newbury, RG14 5EP, Tel: 0635 521313, will be happy to help you with any queries or difficulties.

For Service in the Republic of Ireland

The telephone number of your service centre can be found in your Local Telephone Directory under "Elektro Service" or "Zanussi". The information can also be found in the Golden Pages under "Electrical Appliances - Repairing".



Post-code Letter	Town	Post-code Number	Service Force Key Number	Post-code Letter	Town	Post-code Number	Service Force Key Number
AB	Aberdeen	1-5, 22-23, 30-38	1	DE	Derby	1-3, 6-7, 13-15	10
AB		41-45, 51-56	1	DE	Derby	11-12	18
AL	St Albans	1-10	2	DE	Derby	4-5, 55	33
A	Brecon	45	3	DG	Dumfries	1-7, 10-12, 14	34
BA	Bath	1-5, 11-15	4	DG		8-9	34
BA		7-10, 20-22	5	DG	Dumfries	13	35
BA		6, 16	6	DH	Durham	1-9	37
BB	Blackburn	1-12	7	DL	Darlington	1-17	37
BD	Bradford	1-23	8	DN	Doncaster	1-7, 10-12, 22	33
BD		24	7	DN		14	38
BH	Bournemouth	1-25	9	DN	Doncaster	8-9, 15-21, 31-40	39
BL	Bury	0-9	11	SUB POSTCODE DIVISION			
BN	Brighton	1-15,	12	DN	Gainsborough		
BN		20-27	12		South	21-1, 21-2, 21-5	40
BN		16-18	13	DN	Gainsborough		
BR	Bromley	1-8	14		North	21-3, 21-4	39
BS	Bristol	1-28, 88-89	15	DT	Dorchester	1-5, 10-11	9
BT	Belfast	1-82	16	DT		6-9	5
B	Birmingham	1-21, 25-33, 38, 40,	17	SUB POSTCODE DIVISION			
B		45, 47-48, 60-71	17	DT	Bridport East	6-3, 6-4	5
B		80, 90-94, 97-98	17	DT	Bridport West	6-5, 6-6	5
B	Birmingham	23-24, 34-37,	18	DY	Dudley	1-6, 8-9	17
B		42-44, 46, 72-	18	DY		7, 10-14	41
B		79	18	EC	London	All EC Codes	28
B	Birmingham	49-50,	20	EH	Edinburgh	1-42, 46, 52-54	42
B		96	19	EH		43-45	35
B	Birmingham	95	20	EH	Edinburgh	47-49, 51, 55	43
CA	Carlisle	1-28	21	EN	Enfield	1-11	28
CB	Cambridge	1-8	22	EX	Exeter	1-17, 20	45
CB		9-11	23	EX		18-23, 31-39	46
CF	Cardiff	1-8, 31-48	3	E	London	All East Codes	28
CH	Chester	1-4	24	FK	Falkirk	1-4	43
CH		5-7	25	FK		10-14, 18-19	32
CH		8	26	FK	Falkirk	5-9, 15-17	47
CM	Chelmsford	0-6, 8-9, 11-15	27	FK		20-21	31
CM		7	23	FY	Fleetwood	0-8	7
CM	Chelmsford	16-24	28	GCI	Guernsey		48
CO	Colchester	1-16	23	GL	Gloucester	1-19,	49
CR	Croyden	0-9	29	GL		50-56	49
CT	Canterbury	1-21	36	GL		20	19
CV	Coventry	1-8, 10-12, 21-23,	20	GU	Guildford	1-24, 26, 34-35	50
CV		9, 13	18	GU		25	51
CV	Coventry	31-37	20	GU	Guildford	27-33	13
CW	Crewe	1-12	30	G	Glasgow	1-5, 11-15, 20-23,	47
DA	Dartford	1-18	29	G		31-34, 40-46, 51-	47
DD	Dundee	1-5, 7-11	31				
DD		6	32				

Post-code Letter	Town	Post-code Number	Service Force Key Number	Post-code Letter	Town	Post-code Number	Service Force Key Number
G	Glasgow	53, 58, 60-69, 73,	47	SUB POSTCODE DIVISION			
G		76-78, 81-84	47	LN	Lincoln	3-4, 3-5	40
G	Glasgow	71-72, 74-75	43	LN		3-6	39
HA	Harrow	0-9	2	LS	Leeds	1-29	8
HD	Huddersfield	1-8	8	LU	Luton	1-6	2
HG	Harrogate	1-5	8	LU		7	22
HP	Hemel	1-3	2	L	Liverpool	1-49, 60-70	24
HP	Hempstead	4-23	53	ME	Medway	3	29
HR	Hereford	1-2, 4, 6-9	49	ME		1-2, 4-20, 99	36
HR		3, 5	54	MK	Milton Keynes	1-17, 19, 40-46	22
HU	Hull	1-20, 55	38	MK		18	65
HX	Halifax	1-7	8	ML	Motherwell	1-12	43
IG	Ilford	1-11	28	M	Manchester	1-35, 60	11
IOM	Isle of Man		55	NE	Newcastle-on-		
IP	Ipswich	1-15, 30-31	56		Tyne	1-49, 61-70, 88	66
IP		16-27	57	NE		98-99	66
IP	Ipswich	28-29, 32-33	22	NE		71	35
IV	Inverness	1-24, 26, 30-36,	58	NG	Nottingham	1-14	10
IV		40-49, 51-56	58	NG		15-22, 25	33
IV	Inverness	25, 27-28	59	NG	Nottingham	23-24	40
JCI	Jersey		60	NG		31-34	64
KA	Kilmarnock	1-26, 28-30	43	NN	Northampton	1-7, 11-12	67
KA		27	61	NN		8-10, 14-18	22
KA		28	68	NN	Northampton	13	65
KT	Kingston-on-			NP	Newport	1-9, 44	3
	Thames	1-23	51	NR	Norwich	1-35	57
KT		24	50	NW	London	All NW Codes	
KW	Wick	1-14	59			Except 2, 4, 7, 9, 10	52
KW		15-17	62	NW	London	2, 4, 7, 9, 10	2
KY	Kirkcaldy	1-16	32	N	London	All N Codes	28
LA	Lancaster	1-23	7	OL	Oldham	1-12, 15-16	11
LD	Llandrindod	1-8	54	OL		13-14	7
LD		3	3	OX	Oxford	1-17	65
LE	Leicester	1-5, 7-8, 11-14,	63	PA	Paisley	1-4	47
LE		16-17	63	PA		5-19	43
LE	Leicester	6, 9-10	63	PA	Paisley	20-27	68
LE		15	64	PA		28-29, 41-49, 60-61	69
LL	Llandudno	11-15	25	PA		30-40	70
LL		16-19	26	PA		62-78	68
LL	Llandudno	20-21, 23, 27, 31-	25	PA	Paisley	80-82, 88	71
LL		32, 34-40, 42-47	25	PA		83-87	72
LL	Llandudno	22, 24-26, 28-30,	26	PE	Peterborough	1-15, 34, 38	64
LL		33-34, 41, 48-49,	26	PE		16-19	22
LL		51, 78	26	PE	Peterborough	20-25	40
LN	Lincoln	1-6, 8-10	40	PE		30-33, 35-37	57
LN		7, 11-13	39	PH	Perth	1-2, 8-9, 10-18	31
				PH		3-7	32

Post-code Letter	Town	Post-code Number	Service Force Key Number	Post-code Letter	Town	Post-code Number	Service Force Key Number
PH	Perth	19-26, 30-44	58	SY		7, 17-19	54
PL	Plymouth	1-21	73	SY	Shrewsbury	8	41
PL		22-35	74	SY		23-25	77
PO	Portsmouth	1-22	13	S	Sheffield	1-19, 30-31, 40-45	33
PO	I.O.W.	30-41	75	S		60-66, 74, 80-81	33
PR	Preston	1-9	7	S	Sheffield	70-73, 75	8
RG	Reading	1-17, 26	53	TA	Taunton	1-11, 21-24	6
RG		21-25, 27	50	TA		12-20	5
RG	Reading	28	4	TD	Selkirk	1-15	35
RH	Redhill	1-3, 6-7, 9-20	12	TF	Telford	1-8, 10-13	41
RH		4-5	50	TF		9	30
RH	Redhill	8	29	TN	Tonbridge	1-2, 4, 8-11, 13-16	29
RM	Romford	1-5, 7, 10-18	27	TN	Tonbridge	12, 17-19, 23-40	36
RM		6, 8-9	28	TN	Tonbridge	3, 5-7	12
SA	Swansea	1-18, 31-32	3	TQ	Torquay	1-6, 9, 12-13	78
SA		33-39, 41-44, 61-73	76	TQ		7-8	73
SA	Swansea	19-20, 40, 45-48	77	TQ		14	45
SE	London	All SE Codes	14	TR	Truro	1-27	74
SG	Stevenage	1-9, 11, 15	2	TS	Stockton-on-		
SG		10, 12-14	28		Tees	1-29	37
SG	Stevenage	16-19	22	TW	Twickenham	1-20	51
SK	Stockport	1-3, 6-12	30	UB	Uxbridge	1-10	2
SK		4-5, 13-16	11	WA	Warrington	1-5, 8-9, 10-15	11
SK	Stockport	17	33	WA		6-7	24
SL	Slough	1-10	53	WA	Warrington	16	30
SM	Sutton	1-3, 7	51	WC	London	All WC Codes	44
SM		4-6	29	WD	Watford	1-2, 4-7	2
SN	Swindon	1-8, 11-16	65	WD		3	53
SN		9-10	4	WF	Wakefield	1-17	8
SO	Southampton	1, 4, 41-43, 51	9	WN	Wigan	1-5, 7	11
SO		2-3, 5, 21-24, 52	13	WN		6, 8	24
SO	Southampton	20	4	WR	Worcester	1-14	19
SP	Salisbury	1-5, 9-11	4	WR		15	41
SP		6	9	WS	Walsall	1-15	18
SP	Salisbury	7-8	9	WV	Wolverhampton	1-4, 10-14	18
SR	Sunderland	1-7, 9	66	WV		5-9, 15-16	41
SR		8	37	W	London	All West Codes	52
SS	Southend-on-					Except 1-14	
	Sea	0-9, 11-17, 99	27	W	London	3, 4, 5, 7, 13	2
ST	Stoke-on-			W	London	1-2, 6, 8-12, 14	44
	Trent	1-18, 20-21	30	YO	York	1-3, 5, 7-8	8
ST		19	18	YO		4, 6, 11-18, 25	38
SW	London	2, 4, 8-9, 12, 16-17	14	YO	York	21-22	37
SW	London	1, 3, 5-7, 10-11	44	ZE	Lerwick	1, 3	79
SW	London	13-15, 18	44	ZE		2	80
SW	London	19-20	51				
SY	Shrewsbury	1-6, 9-17, 18-22	25				

Service Force Key Number	Service Force Address	Telephone Number	Service Force Key Number	Service Force Address	Telephone Number
1	60 Commerce Street, Aberdeen, AB2 1BP	0224 583949	23	Unit 2b, Elton Park Business Centre, Hadleigh Road, Ipswich, IP2 1 DQ	0473 211713
	or Tel:	0224 582704	24	Unit 14, Dock Road, Birkenhead, L41 1JJ	051 639 1287
2	Unit 4, Riverside Est, Coldharbour Ln, Harpenden	0582 461909	25	Plas Fynnon W/house, Middleton Rd, Oswestry	0691 652917
3	3 Pentwyn Road, Blackwood, Gwent, Sth Wales	0495 223151	26	Easy Launderette, Panton Hall, Denbigh, Clwyd	0745 81 3272
4	31 St Andrews Road, Bemerton, Salisbury, SP2	0722 336072	27	19 Sirdar Rd, Off Brook Rd, Rayleigh, Essex	0268 741171
5	3 Bancombe Ct. Trad. Est., Martock, Yeovil, TA12	0935 822836	28	284 Alma Road, Enfield, EN3	081 805 6825
6	6 Hamp Ind Est. Bridgwater, Somerset, TA6 3NT	0278 424550	29	Unit B4, Imperial Bus. Estate, Gravesend, Kent	0474 353771
7	333 Ranglet Road, Walton Summit, Preston, PR5	0772 321200	30	Unit 8, Croft Road, Newcastle under Lyme, Staffs, ST5 0TW	0782 713003
8	57 Ingram Road, Holbeck, Leeds, Yorks,	0532 460992	31	3-7 Blackness Street, Dundee, Scotland, DD1	0382 642828
9	63 Curzon Road, Bournemouth, BH1 4PW	0202 303363		or Tel:	0382 455862
				or Tel:	0382 826809
10	Unit 2, Furnace Road, Ilkeston, Derbyshire	0602 442770	32	33a Burnside, Auchtermuchty, Fife, Scotland	0337 28807
11	Unit 41/42 Clarendon Ct, Winwick Quay, W'ton	0925 50822	33	Unit 63, Storforth Ln Trad. Est. Chesterfield	0246 231790
12	Unit 3, 21/25 Bridge Road, Haywards Heath, RH1	0444 417656	34	93 Irish Street, Dumfries, Scotland	0387 69694
13	266 Main Road, Southbourne, Emsworth, PO10	0243 374814	35	2-8 Wood Market, Kelso, Borders, TD5 7AX	0573 24411
	or Tel:	0243 371170	36	Unit 2, Bridge Rd Bus. Centre, Bridge Road Ashford, Kent, TN23 1BB	0233 613463
14	9, Bourne Road, Bromley, Kent, BR2 9PB	081 313 9533	37	8 Cumbie Way, Aycliffe Ind. Est. Newton Aycliffe	0325 300606
15	Unit 1, Albert Crescent, Bristol, BS2 0YH	0272 713217	38	Unit 1, Boulevard Unit Fact. Est. Hull, HU3 4AY	0482 223335
16	Owenmore Hse, Kilwee Ind. Est., Upper Dunmurry Lane, Belfast	0232 301121	39	Unit 2, Cromwell Road, Grimsby, DN31 2BN	0472 358760
17	66 Birch Rd East, Wyreley Rd Ind. Est, B'ham	021 327 1671	40	Unit 14 Stonefield Park, Clifton Street, Lincoln	0522 532330
18	Unit 3 Sterling Park, Claymore, Tamworth	0827 289800	41	1 Underhill Street, Bridgnorth, Salop, WV16	0746 763322
	or Tel:	0827 289822	42	38 Buccleuch Street, Dalkeith, Midlothian, EH22	031 663 7758
19	22 Newton Road, Malvern, Worcester, WR141NZ	0684 572915	43	Block 2 Unit 5, Auchenraith Ind. Est. Rosendale Way, Blantyre	0698 828145
20	Unit 23/24, Alliance Business PK, Townsend Drv, Nuneaton, CV11	0203 350666	44	4 Royal Lane, Yiewsley, W-Drayton, UB7	0895 441917
21	High Ehenside, Egremont, Cumbria, CA22	0946 820509	45	91 Exeter Road, Exmouth, Devon, EX8 1QD	0395 263531
22	1 Wharf Road, Higham Ferrers, Northants	0933 317727	46	Unit 4, Upcroft Ave, Pottington Ind Est, Barnstaple	0271 71774

Service Force Key Number	Service Force Address	Telephone Number	Service Force Key Number	Service Force Address	Telephone Number
47	Unit E6C Anniesland Ind. Est. Netherton Rd, Glasgow, Scotland	041 954 5304 or Tel: 041 954 5349	71	2 Killweivagh, Gregory, Benbecula, Outer Hebrides	0870 2331
48	Blencathra, Saumarez Lane, Castel, Guernsey	0481 56854	72	Churchouse, 16 James St, Stornaway, Isle of Lewis	0851 705555
49	134 Eastgate Street, Gloucester, GL1 1QT	0452 422488	73	16 Faraday Mill, Cattedown, Plymouth, PL4	0752 257455
50	Unit 1 Redfields Ind. Pk, Church Crookham, Fleet	0252 851414	74	80 Killigrew Street, Falmouth, Cornwall, TR11	0326 314600
51	127 Walton Road, Molesey, Surrey, KT8 0DT	081 9796366 or Tel: 081 9797962	75	111 Hunnyhill, Newport, Isle of Wight	0983 523062
52	Unit 4, Riverside Est, Coldharbour Ln, Harpenden	0582 461909	76	Roch, Haverfordwest, Dyfed	0437 710366
53	Reform Road, Maidenhead, Berkshire	0628 783711	77	Unit 16, Llambod Ind. Est., Lampeter, SA48	0570 423424
54	Merion House, High Street, Llandrindod Wells	0597 824842	78	278 Torquay Road, Preston, Paignton	0803 529969
55	South Quay Industrial Estate, Douglas, I.O.M.	0624 622114	79	3-4 Carlton Place, Lerwick, Shetland, ZE1	0595 2915
56	Unit 2b, Elton Park Business Centre, Hadleigh Rd, Ipswich, IP2 0DQ	0473 211713	80	Harlsdale, Symbister, Whalasay, Shetland	08066 546
57	75 Grove Road, Norwich, NR1 3RL	0603 629653	81	London House, Victoria Str., Alderney	048182 3563
58	Unit 3B3, Smithton Ind. Est. Smithton, Inverness	0463 791822			
59	Drummuie Road, Golspie, Sutherland, KW10 6SY	0408 633517			
60	P.O.Box 45, Queens Road, St Helier, Jersey	0534 67001			
61	Bruach, Blackwaterfoot, Isle of Arran	077 086 246			
62	Hatson Ind. Estate, Kirkwall, Orkney	0856 5457			
63	75 St Marys Road, Market Harborough, Leics	0858 433229			
64	Pinfold Rd, Manning Rd Ind. Est. Bourne, Lincs	0778 422147			
65	Unit E19, Telford Rd, Launton Ind. Est. Bicester	0869 248598			
66	Unit C1, Bergen Cl, Tyne Tunnel Trad. Estate, North Shields, Tyne & Wear	091 2960166			
67	53 Sandringham Road, Northampton, NN1	0604 37061			
68	96 Argyll Street, Dunoon, Argyll, PA23 7NE	0369 2147			
69	Inverasdale, Gallow Hill Rd, Cambeltown, Argyll	0586 553753			
70	Moss Field Workshop, Moss Field Drive, Oban	0631 664530			

PEACE OF MIND FOR TWELVE MONTHS

Zanussi guarantee conditions

This guarantee is in addition to your statutory and other legal rights which will not be excluded or in any way diminished by the return of this guarantee card.

We, Zanussi Ltd., undertake that if, within twelve months of the date of the purchase, this ZANUSSI appliance or any part thereof is proved to be defective by reason only of faulty workmanship or materials, we will, at our option, repair or replace the same **FREE OF ANY CHARGE** for labour, materials or carriage on condition that:

- * The appliance has been correctly installed and used only on the electricity supply stated on the rating plate.
- * The appliance has been used for normal domestic purposes only, and in accordance with the manufacturer's operating and maintenance instructions.
- * The appliance has not been serviced, maintained, repaired, taken apart or tampered with by any person not authorised by us.
- * The appliance is still in the possession of the original purchaser.

All service work under this guarantee must be undertaken by a Zanussi Service Force Centre.

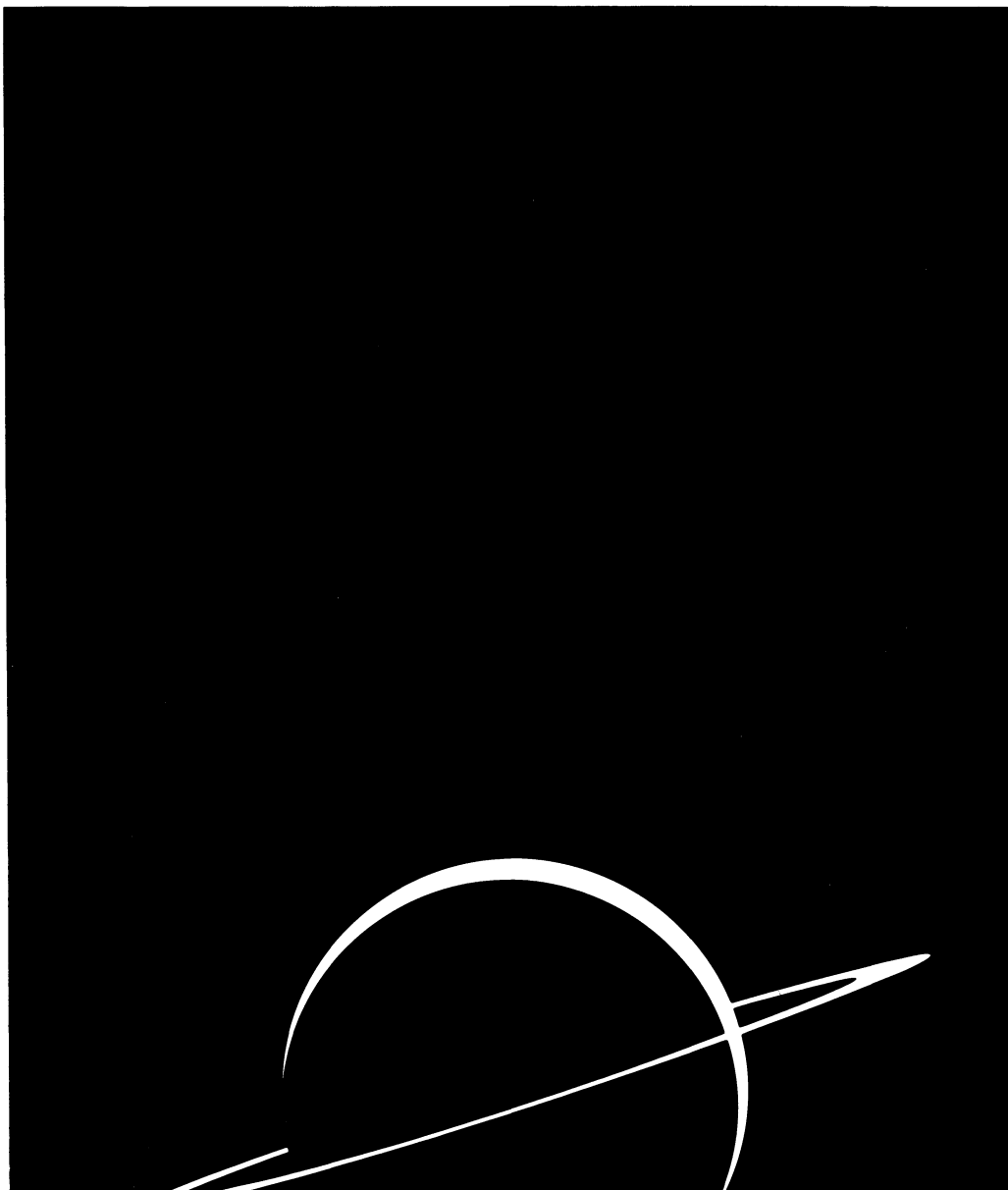
Home visits are made between 8.30 am and 5.30 pm Monday to Friday. Visits may be available outside these hours in which case a premium will be charged.

Any appliance or defective part replaced shall become our property.

Exclusions

This guarantee does not cover:

- * Damage or calls resulting from transportation, improper use or neglect, the replacement of any light bulbs or removable parts of glass or plastic.
- * Costs incurred for calls to put right machines improperly installed or calls to machines outside the UK and the Republic of Ireland.
- * Appliances found to be in use within a commercial or similar environment, plus those which are the subject to rental agreements.
- * Products of Zanussi manufacture which are NOT marketed by Zanussi Ltd.
- * EEC Countries - The standard guarantee is applicable but subject to the owner's responsibility and cost to ensure the appliance meets the standards set by the country to which the product is taken. The Zanussi company in the country concerned will be pleased to advise further. Sight of your purchase receipt will be required by them.



(Signum / 181)

ZANUSSI

The appliance of science

Zanussi Ltd., Zanussi House, Newbury.

The information in this manual is correct at time of going to press.
Zanussi reserve the right to alter specifications without notice.