

# **ZANUSSI**

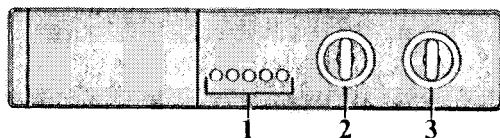
## **Washing machine Z 468 TX**

**Operating Instructions**

# Operation

## Controls description

- 1 Programme selector
- 2 Thermostat
- 3 Pushbutton



### «Impuls pushbutton « M »»

By depressing, the « M » button at the beginning of a gentle wash cycle, the water will drain at the end of the cycle. A short spin will follow, which allows you to remove from the machine an almost completely drip-dried laundry without any marked creasing.

### Half-load pushbutton « 1/2 »»

When pressed in, this pushbutton will provide only half of the normal water load in the tub. This makes it possible, when washing only a reduced load (not more than half of the normal dry load), to obtain a reduced water consumption and a considerable saving in electric power consumption.

This pushbutton should not be pressed in when washing synthetics or woollens.

### Economizer pushbutton «E»

By pressing in this pushbutton and then setting the thermostat knob on a 60°C instead of a 90°C temperature, prior to starting a wash cycle suitable for strong white fabrics, you will obtain a substantial saving in electric power consumption. Good washing results are ensured at any rate inasmuch as the lower temperature is compensated by an increase in the cycle duration.

### Gentle spin push-button « O »»

If pressed at the beginning of a strong washing cycle a short final spin of two minutes and at 400 r.p.m. is obtained.

### Start-stop pushbutton « ⊕ »»

By pressing it in, the machine starts (pilot lamp lights up). When pressed in again, it stops the machine (pilot lamp goes off).

### Thermostat

By pressing it and turning the knob, it permits selection of the washing water temperature according to the type of laundry to be washed.

On the cycles chart the most appropriate temperatures are indicated; however, you can choose intermediate temperatures according to your own requirements and experience. It is also possible to carry out all the washing cycles with cold water by centering the thermostat knob on the relevant symbol.

### Program selector

This permits selection of the required wash cycle by pressing it and turning the knob clockwise until the pointer is accurately centered on the letter corresponding to the desired cycle.

## Loading the clothes

Open the door of the machine by pulling the small double-action catch (fig. 7) to the left first and then outwards.

Load the clothes spreading them out evenly and then close the door again.

## Filling with washing powder & additives

The washing powder and the additives, if any, should be loaded — before the program is started — into the respective compartments of the dispenser located on the front panel, which can be pulled out partly from its housing (fig. 8).

The powder dispenser has 3 compartments marked by the letters "a", "b" and "c".

Into compartment "a" should be put the washing powder for the pre-wash, i.e.: approx. 60 ÷ 80 grams.

Compartment "b" is for the main wash powder, i.e.: approx. 100 ÷ 120 grams.

Compartment "c" is for liquid fabric conditioners, if required, such as starching, blueing and softening products, etc.

The amounts of washing powder given above are to be taken merely as a guide insofar as they depend on a number of variable factors, like the wash load, the degree of soil, the water hardness, etc.

Therefore, both for washing powders and fabric conditioners it is advisable to follow the manufacturer's instructions for the quantity to be used.

## Starting

After loading the clothes, the washing powder and the fabric conditioners into the respective compartments, make sure — before you start the machine —

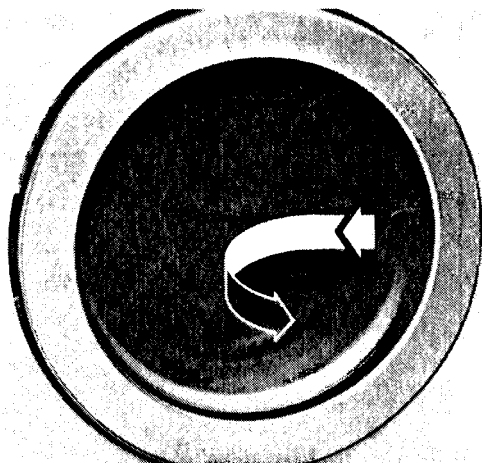


fig. 7

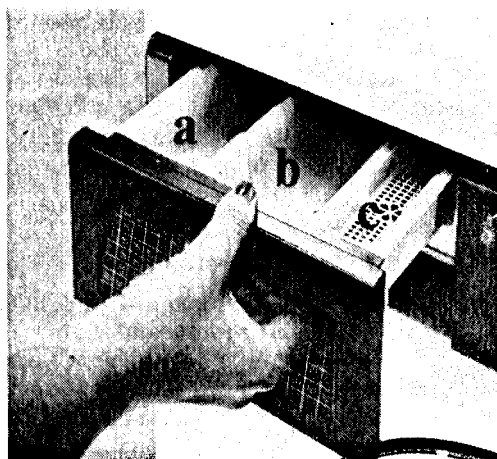


fig. 8

- the plug is in the wall socket.
- the water tap is turned on (fully open).
- the drain hose is correctly placed.
- the loading door is correctly closed.

You may now choose the desired wash cycle, then select the water temperature and, if required, press in the pushbutton (or pushbuttons, whichever the case may be).

At this point, to start the washing machine simply press in the START-START-STOP pushbutton (the pilot lamp lights up).

Once it is started, the machine will automatically carry out all phases of the selected program.

## Stopping

When the programme is completed (pilot lamp goes out), the machine stops automatically. At the end of the wash cycle press in the START-STOP pushbutton again and wait for about 1÷2 minutes before lifting the door so as to allow the safety interlocking device to release it.

Open the door only after the wash cycle is completed. In the case of the «gentle wash cycles», don't forget to drain the water prior to opening the door.

If necessary, you may stop the machine at any given moment during the cycle by pressing in the START-STOP pushbutton.

When the wash cycle is completed, it is advisable to unplug the machine from the wall socket and to turn off the water tap.

## Wash cycles

The following charts give a description of the various wash cycles carried out by this machine. These programmes differ both in the drum rotation speed, which can be either energetic with spinning or delicate without spinning,

Therefore, the energetic cycles with normal water level are suitable to wash strong fabrics (cotton, linen, hemp), whereas the delicate cycles with high water level are suitable to wash synthetic fabrics, woollens and silk fabrics.

## Safety devices

This machine incorporates a number of special devices which ensure an even safer operation, i.e.:

The electric delaying device (interlock) which automatically locks the door during a wash cycle and, furthermore, delays opening of the door for 1÷2 minutes after the program is completed to prevent it from being opened while the drum is still revolving.

The cooling of the wash water before it is pumped out which, in addition to having a crease preventing effect on the fabrics, reduces the temperature of the drained water which could otherwise damage the drain pipes.

The steam recycle feature which prevents the machine from releasing any steam.

The thermostatic control which ensures that the water always has the right temperature.

# ENERGETIC WASH CYCLES

For Cotton, Linen and Hemp Fabrics

Recommended wash load: 5 kgs max.

Wash cycle	Position of program selector and thermostat	Dispenser of compartment to be used	Wash cycle description
* Whites heavy soil	<b>A</b> <b>90°</b>	<b>a b-c</b>	Prewash in water at 40°C (normal level). Main wash in water at 90°C (normal level). 4 cold water rinses (high level). Spinning.
Fast coloureds heavy soil	<b>A</b> <b>60°</b>	<b>a b-c</b>	Prewash in water at 40°C (normal level). Main wash in water at 60°C (normal level). 4 cold water rinses (high level). Spinning.
Delicate coloureds (non-fast) - heavy soil	<b>A</b> <b>40°</b>	<b>a b-c</b>	Prewash in water at 40°C (normal level). Main wash in water at 40°C (normal level). 4 cold water rinses (high level). Spinning.
* Whites normal soil	<b>B</b> <b>90°</b>	<b>b-c</b>	Main wash in water at 90°C (normal level). 4 cold water rinses (high level). Spinning.
Fast coloureds normal soil	<b>B</b> <b>60°</b>	<b>b-c</b>	Main wash in water at 60°C (normal level). 4 cold water rinses (high level). Spinning.
Delicate coloureds (non-fast) - normal soil	<b>B</b> <b>40°</b>	<b>b-c</b>	Main wash in water at 40°C (normal level). 4 cold water rinses (high level). Spinning.
Rinses	<b>C</b>	<b>c</b>	4 cold water rinses (high level). Spinning.
Sizing	<b>D</b>	<b>c</b>	Water load and additive intake. Sizing (high level). Spinning.
Spinning	<b>F</b>		Spinning for about 6 minutes with simultaneous water draining. This is preceded by slow rotations of the drum.


\* With these wash programs you may use the «economizer» button, if so required. See the relevant paragraph.  
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## GENTLE WASH CYCLES

### For Delicates, Synthetics, Mixed Fabrics and Woollens

Recommended wash load: max. 1,5 ÷ 2 kgs. (wool: max. 1 kg).

NOTE: There is no water draining in the last rinse of the gentle wash cycles with the exception of the special wool program to prevent the clothes from creasing if they are left in the machine at the end of the wash cycles. To drain the water, turn the program selector knob to cycle «M» (draining & gentle spinning) or cycle «L» (draining without spinning).

Wash cycle	Position of program selector and thermostat	Dispenser compartment to be used	Wash cycle description
Strong synthetics Heavy soil	<b>G</b> 60°	<b>a b-c</b>	Prewash in water at 40°C (high level). Main wash in water at 60°C (high level). 3 cold water rinses (high level).
Delicates - heavy soil	<b>G</b> 40°	<b>a b-c</b>	Prewash in water at 40°C (high level). Main wash in water at 40°C (high level). 3 cold water rinses (high level).
Wash & wear cotton	<b>H</b> 90°	<b>b-c</b>	Main wash in water at 90°C (high level). 3 cold water rinses (high level).
Strong synthetics - normal soil	<b>H</b> 60°	<b>b-c</b>	Main wash in water at 60°C (high level). 3 cold water rinses (high level).
Delicates - normal soil	<b>H</b> 40°	<b>b-c</b>	Main wash in water at 40°C (high level). 3 cold water rinses (high level).
Very delicate fabrics	<b>H</b> 30°	<b>b-c</b>	Main water wash in water at 30°C (high in level). 3 cold water rinses (high level).
Rinses	<b>J</b>		3 cold water rinses (high level).
Softening	<b>K</b>	<b>c</b>	Water load and additive intake. Softening (high level).
Drain	<b>L</b>		Water draining and tumbling.
* Woollens	 30°	<b>b-c</b>	Short main wash in water at 30°C (high level). 3 cold water rinses (high level). Spinning.
Gentle spin	<b>M</b>		Water draining followed by a short spin.

particularly if the extension has a length in excess of 1 meter or if the diameter of the extension is smaller than the diameter of the original drain hose.

## **Electrical connection**

Before you plug the appliance into the wall socket, make sure that:

1)  
The supply voltage of the domestic wiring system does not fluctuate by more than 10% plus or minus, from the value shown on the rating plate.

2)  
The meter, the fuses, the supply line and the wall socket are all suitable to carry the maximum load required by the washing machine (2,52 kW).

**The existing safety rules call for the appliance to be connected to an efficient ground wire.**

**The manufacturer disclaims any liability whatsoever if this accident prevention rule is not complied with.**

## Helpful tips for washing

Some practical advice is given to help you obtain the best washing results:

sort your laundry by type of fabric, colour fastness and degree of soil.

close all zippers and collect very small items in a small cloth bag.

do not machine wash articles without hems or articles that are apt to get frayed.

use only low-lather wash powder for washing machines.

for woollens use a «neutral» (mild) powder.

when washing woollens, it is advisable to carry out a short spin after completion of the wash cycle.

when selecting a wash cycle, take into account also the symbols of the labels to be found on the garments.

to obtain the best washing results, be sure above all to select the most appropriate wash cycle for your laundry and to use the right quantity of washing powder.

# Care and cleaning

## Cleaning the machine

It is advisable, from time to time, to carry out a complete cycle without a washing load, adding a decalcifying product.

Leave the door open for a while after the wash to allow air to circulate freely inside the machine.

The cabinet should be cleaned only with some soap-suds and then rinsed and dried carefully.

All polished, chromium plated and plastic parts should only be cleaned with a damp cloth.

It is also advisable to clean the detergent dispenser every so often. To do this, simply extract the dispenser completely from its receptacle and then flush it in a jet of running water. Replace the dispenser in its housing.

## Cleaning the drain filter

This machine incorporates a mechanical filter (located in the front side of the cabinet) the purpose of which is to collect lint and any small object inadvertently left in the articles to be washed.

If this filter is allowed to clog, it could make water draining difficult. It should therefore be cleaned regularly as follows:

detach the drain hose from its hanger on the back of the appliance and place the free end of the hose at floor level into a basin to collect any excess water.

to remove the bottom panel from the cabinet, grip it from underneath and pull it outwards.

Then, using the special wrench that comes with the machine, unscrew and



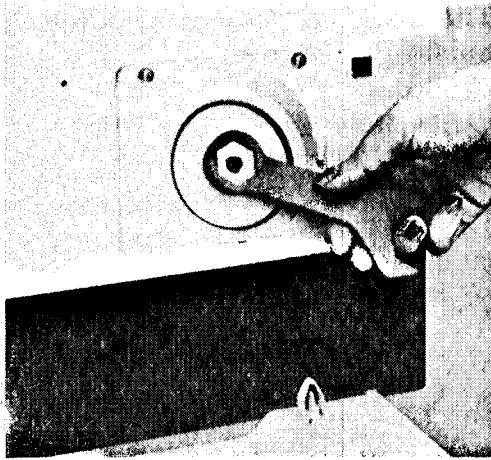


fig. 9

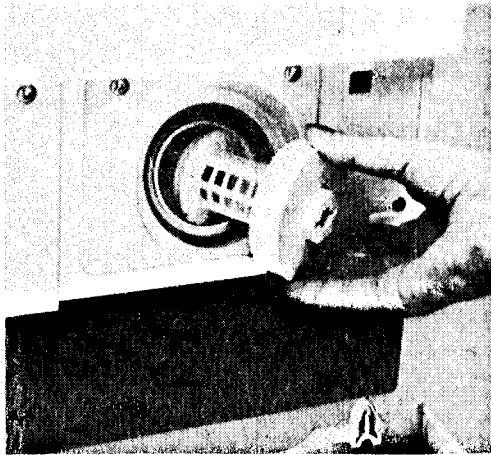


fig. 10

Clean the filter thoroughly and then replace it, making sure that it is screwed down firmly into its housing. When replacing the filter, be sure to fit it exactly into its special guide.

# Something not working

If your washing machine does not work properly, this might be due to some minor fault that can easily be eliminated, e.g.:

## The machine won't start

Check that:

the plug is firmly in the wall socket and that there is an electricity supply by plugging in another appliance; the door of the machine is firmly closed;

the START-STOP pushbutton is actually pressed in.

make sure the fuses of your electrical installation have not blown.

## The machine won't fill

Check that:

the water tap is actually turned on and that there is sufficient pressure; the fill hose is not sharply bent.

## The machine fills, but the water empties from the drain hose

Check that:

the end of the drain hose is not placed too low from floor level.

## The machine won't drain or spin

Check that:

the drain hose is not sharply bent (kinked) or placed in such a way as to obstruct a normal water flow; the drain collector is not clogged.

## The machine vibrates or is too noisy

Check that:

the inner packing (transit security) was correctly removed, as described in paragraph «Unpacking»; the machine is correctly levelled as described in the relevant paragraph the washer is not too close to a wall or to the furniture.

# Technical data

Width . . . . .	60	cms.
Depth, max. . . . .	60	cms.
Height . . . . .	85	cms.
Dry clothes loading capacity . . . . .	5	Kg
Revolutions during spinning . . . . .	400/800	r.p.m.
Total power absorbed . . . . .	2520	W
Heater rating . . . . .	2300	W
Motor rating (washing) . . . . .	220	W
Motor rating (spinning) . . . . .	320/550	W
Water load with empty drum (normal level) . . . . .	13	liters
Water load with empty drum (high level) . . . . .	20	liters
Water pressure, minimum . . . . .	5	N/cm <sup>2</sup>
Water pressure, maximum . . . . .	80	N/cm <sup>2</sup>
Supply voltage . . . . .	220/240	V
Supply frequency . . . . .		Hz 50

# Installation

## Unpacking

After removing outer carton, reinforcing angles and polythene wrapping, proceed as follows:

Unscrew and remove, by means of the special spanner that comes with the machine, the three big screws to be found on the back of the appliance (fig. 1).

(This wrench is to be found underneath the lower panel of the cabinet).

Insert a screwdriver into the free holes left after removing the screws, and tilt it as required to cause the three plastic spacers inside the machine to fall down.

Rest the washing machine on its back and remove the two inner angle packings by pulling the left string A first and then the right string B (fig. 2). This operation should be carried out very carefully to prevent the angle packings from damaging the internal components of the machine.

Remove the polystyrene base packing and the three plastic spacers that fell down during the preceding operations.

**Note:** It is advisable to keep all parts of the inner packing for re-use in case the machine has to be transported again.

## Positioning & Levelling

Set up the machine in its permanent operating position and then carefully level it adjusting the levelling feet (fig. 3) by means of the special small wrench.

It is recommended to perform this work very accurately to avoid any vibration, noise or shifting of the appliance during operation.

Also make sure that the washing machine does not touch walls, furniture, etc. while working.

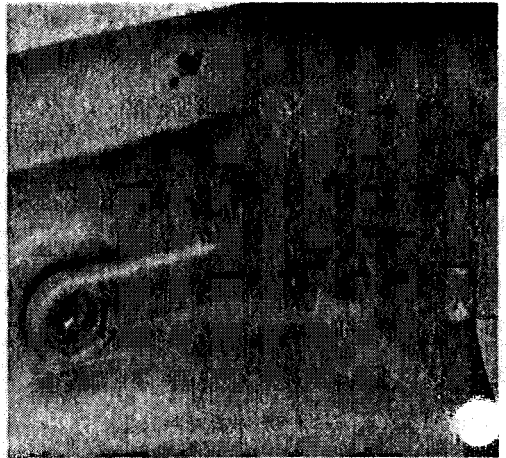


fig. 1

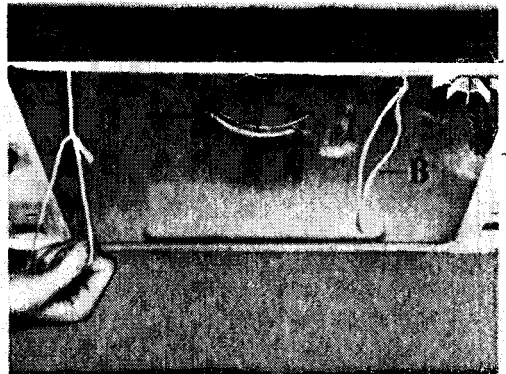
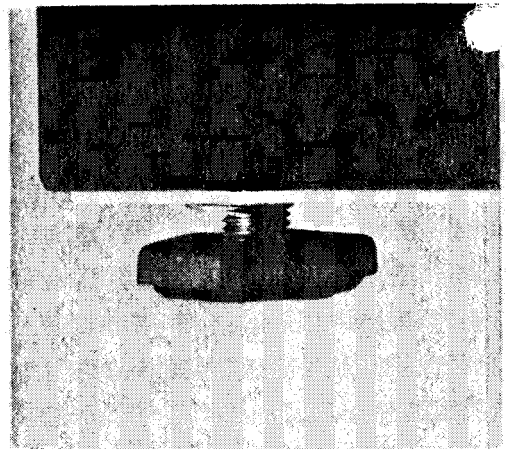


fig. 2



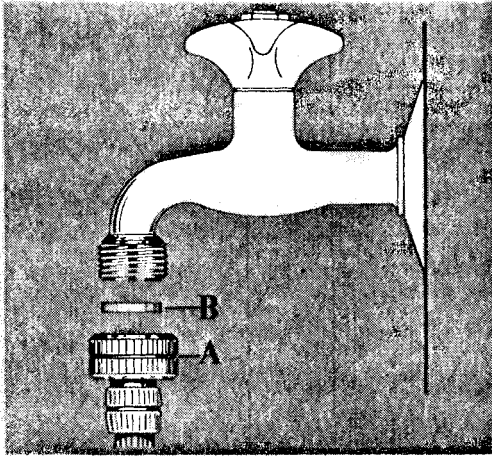


fig. 4

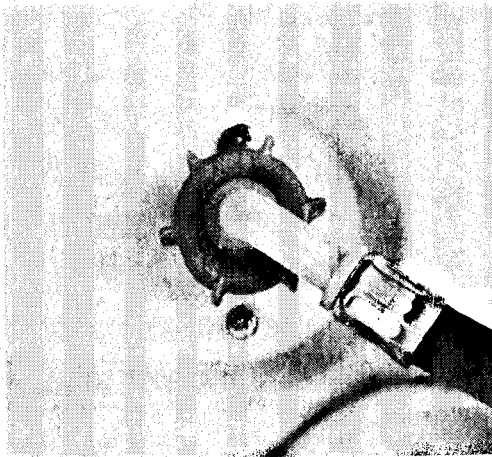


fig. 5

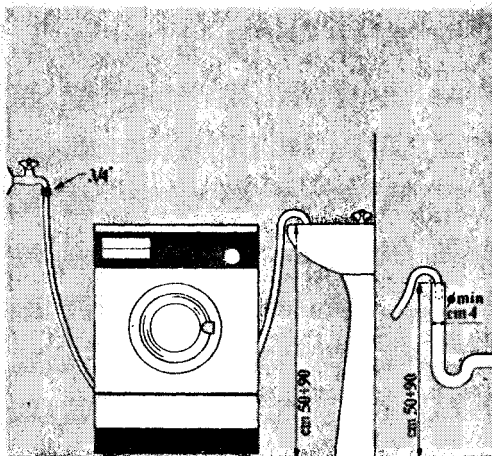


fig. 6

## Water connection

**Water inlet hose:** connect the water inlet hose to a cold water tap having a 3/4" gas thread spout or to a water tap having a quick-coupling connector, after fitting the rubber sealing washer B (fig. 4) supplied with the machine into the threaded locking ring A at the end of the water inlet hose.

The other end of the water inlet hose which is connected to the appliance, can be turned in any required direction by loosening its ring nut.

After setting the inlet hose as desired, be sure to tighten its ring nut again to prevent leakages (fig. 5).

If the water connection is made onto new pipes or onto pipes which have not been used for a long time, it is advisable to run off a certain amount of water before connecting the machine. This will avoid foreign matter blocking the filter placed at the end of the water inlet hose.

**Drain hose:** this is secured to the back of the machine by means of a special plastic support which should be cut off when installing the appliance.

The curved end of the outlet hose should be inserted into a drain pipe or firmly hooked and secured (by means of the plastic ring left on the hose) over the edge of a sink or bath tub not less than 50 cms. and not more than 90 cms. from floor level (fig. 6).

Make sure at any rate that the drain hose is always safely secured, so that it will not become loose or fall down from its position.

The water should drain freely and, consequently, the drain hose should not be choked or placed in such a way as to obstruct the normal water flow.

If an extension hose is required, remember that it might cause a

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