

Miele

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Miele

Operating instructions for W 698 HYDROMATIC washing machine

Guide to the appliance / Economy tips

- 1 - G.B. version 240 V single phase a.c. connection, cable with moulded plug
- 2 - 3/8" inlet hose for connection to stop-cock with 3/4" threaded union.
- 3 - Flexible drain hose, with swivel hook
- 4 - Detergent dispenser box
- 5 - Facia panel with controls
- 6 - Drum door
- 7 - Drain pump and filter access panel
- 8 - 4 height adjustable screw feet

Before using this machine for the first time:

1. Read the Warning and Safety Instructions
2. Run a programme **without** laundry. Add detergent to compartment **III** of the detergent dispenser, and select "Cottons 95°C", without pre-wash.

This will flush the machine through and ensure it is clean for you to use.

This machine has an automatic load adjustment feature to control water. Only the appropriate amount of water is used for the type and amount of wash load.

To wash most economically:

- Load maximum amount for type of fabric.
- Use correct amount of detergent according to water hardness.
- Where there are no hard stains or spots **either** select a low(er) temperature, **or** the "short" option.

Where a standard Cottons or Minimum iron programme is selected, the "wash time guarantee" operates, i.e. whatever temperature is chosen the wash cycle takes the same time, thus ensuring a good cleaning effect.

The "short" option cuts out the wash time guarantee.

It is not advisable to select both the short option and a lower temperature together.

This appliance is designed and intended only for normal household use. It should never be operated by children. Supervise its use by the elderly or infirm.

Read the operating instructions through before using this machine for the first time. This way you will avoid the risk of accidents and damage to the machine.

When disposing of your old washing machine, please remember that the door lock must be made useless. This will prevent children at play from accidentally locking themselves in, and possibly endangering their lives.

Do not install this machine in a room where the temperature may drop below freezing. This could affect the electronic controls. Frozen hoses might split or burst under pressure.

Check that the transit fitting has been removed before using the machine. If left in place this could cause damage to the machine or adjacent furniture during spin cycles.

Secure the drain hose so that the power of water flowing through does not dislodge it from the sink or standpipe causing a flood. Also ensure that the water can run away freely, to avoid it overflowing.

Only wash articles which possess a care label announcing that they are suitable for machine washing.

Proprietary dyes may only be used in this machine if the dye manufacturer expressly announces that they are suitable for use in a washing machine. Follow the manufacturer's instructions.

Do not use dye removers. Any sulphur content can damage the machine.

Descaling agents contain acid. These should only be used where the manufacturer expressly states that they are suitable for use in a washing machine and they contain a corrosion protective. Instructions should be followed exactly, and the procedure finished with several rinse cycles to ensure that all acid residues have been washed away and cannot affect components.

On no account must solvents of the type used for dry cleaning be used in this machine. Machine components could be damaged, toxic fumes could be given off. There may also be the danger of fire or explosion.

Always make sure the drum is stationary before reaching in to remove washing. Reaching into a moving drum is extremely dangerous.

Warning and safety instructions for the user

Repairs to the machine should only be undertaken by a suitably qualified service engineer to ensure safety. Unauthorized repairs could be dangerous.

The machine is only completely isolated from the electricity supply either when it is switched off at the wall socket, or the plug is withdrawn from the socket.

If washing at very high temperatures, remember the porthole glass is hot. Do not let children touch it during a hot wash programme.

Use the special catch on the detergent dispenser to prevent it being pulled out by children.

Metal items such as coins, screws and nails can damage the drum and the cabinet. Ensure that such items do not get into the machine.

Unless there is a floor drain, it is advisable not to leave a machine unattended during operation.

The best materials are used in the manufacture of this machine, and every care is taken to check all parts. However, with time, deterioration of parts can occur, especially with such components as hoses, giving rise to leaks. This should be borne in mind if operating the machine without supervision. Check the hose regularly for signs of wear, and change in good time, to avoid leaks and subsequent damage.

Keep this instruction booklet in a safe place for future reference.

Technical data

Height	85.0 cm (adjustable + 1.0 cm/ - 0.5 cm)
Height with machine lid removed	82.0 cm (adjustable + 1.0 cm/ - 0.5 cm)
Width	59.5 cm
Width with machine lid removed	59.5 cm
Depth	60.0 cm
Depth with door open	92.0 cm
Max. floor load	1600 Newton (ca. 160 kg)
Weight	approx. 99 kg
Capacity	5.0 kg dry laundry
Rated load	2.4 kW
Heater rating	2.2 kW
Plug rating	10 A
Static water pressure max	1 MPa
Water flow pressure min	0.1 MPa
Maximum delivery head	1.0 m
Maximum length for drainage pump	5.0 m
Consumption data (DIN 44983)	
Cottons 95°C	Electricity: 1.9 kWh Water: 70 litres
Test certificates awarded	SEC, WATERBOARD, radio/tv suppression
Electrically suppressed according to	DIN EN 60555/VDE 0838

Preparing the wash load

Sort the laundry according to:

- Wash care labels
- Colour fastness
- Type of fabric
- Degree of soiling

Start a programme for normally soiled laundry at "Main wash". Heavily soiled laundry is best washed using a pre-wash.

Wash care symbols

The wash care symbols shown below are generally found on labels on the garment or fabric. These indicate a particular washing process, showing the maximum temperature (°C), amount of agitation, and method of water extraction. With your Miele machine match the labels to the basic programmes (see appropriate programme pages) as follows:

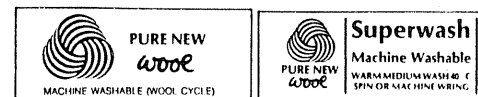
Cottons   

Minimum iron   

Delicates  

Woollens 

Wool The wool labels shown here are the only ones which indicate the item is machine washable, and then only in the special "Woollens" programme:





New symbols:


Simplified wash care symbols have been introduced. The maximum wash temperature (°C) is shown in the bucket:



The significance of the bar beneath the wash tub:

no bar normal (maximum) agitation
 eg Cottons programme

bar reduced (medium) agitation,
 eg Minimum iron programme
+ Gentle action, or Delicates programme.

broken bar much reduced (minimum)
 agitation, Woollens programme

Mixed fabric group loads

Remember "Wash separately" means just that.

New articles often contain excess dye, and should be washed separately several times before being included in a mixed load.




Preparing the wash load

If considering mixing fabrics with different labels to make up a load, be careful. There is a risk of shrinkage, dye transfer and discolouration of whites. Always select the **lower** temperature and the **most gentle** wash action required.

Other symbols:


hand wash 



do not wash 

dry clean   

do not dry clean 

suitable for chlorine bleaching 

not suitable for chlorine bleaching 

tumble dry  

do not tumble dry 

Pre-treating the washing

- Empty all pockets, (metal items could cause damage). Remove all loose inserts. With curtains, **secured** weights and hooks, made of **non-rusting** materials can be washed in the machine. Close all zips.
- Badly soiled areas, eg collars and cuffs, and water soluble stains, can be pre-treated about 20 minutes before washing with bar soap, or detergent mixed into a solution or paste.
- Rinse washing out if it has been pre-treated, and give a short spin if possible.

To open the drum door

- Press the "Door" button. The electronically controlled door lock can only be released if
 - the machine is connected to the electricity supply, and switched on.
 - the water has been pumped away,
 - the drum is stationary.

To open the door in the event of a power failure (see page 25)

Loading the washing machine

- Unfold and shake out the items.
- Load them loosely into the drum.
- See chart for recommended weights of loads.

Do not overload. This spoils the wash result and aggravates creasing. Mix items of different size in a load. This gives a better distribution in the drum, for a more even, quieter spin.

Close the door firmly.
Turn on the stopcock.

Connection to drainage

The machine drains via a drain pump with a delivery head of one metre. The hose must not be kinked as this restricts drainage. The hooked piece at the end of the hose can be turned in either direction. When emptying via a sink or standpipe, also ensure that the water can run away freely, otherwise there is a danger of the water siphoning back into the machine.

Drain hose specification:

length	- 1.5 m
internal diameter	- 22 mm
External diameter	- 30 mm
Ext. dia. of hook	- 32 mm

The drain hose may be connected as follows:

- Directed into a sink: hook the hose securely over the edge and secure, so that the power of the water flowing out does not dislodge it from the sink. The hose is long enough to install the machine to the right or left of the sink.
- Directed into a standpipe.
- Connected to a plastic drain pipe with nipple (an anti-siphoning device is not required).
- Directed into a gully drain.

If required the hose may be extended to a length of 5 metres.

For a drain head of more than 1 metre up to 1.80 m max., a second "Duo operation" suds pump is available with conversion kit, at extra cost from the Miele Spare Parts Dept.

Connection to water supply

The machine should be connected to a mains water supply in accordance with standard regulations.

The washing machine has been designed to comply with the water board regulations.

Connection to a mains water supply should be carried out by a qualified plumber and should incorporate a mains stopcock with 3/4" thread.

Connection to the machine inlet point is made with a 1.5 metre length of 3/8" pressure hose with a 3/4" threaded union. This hose is **not** suitable for use for connection to a hot water supply. Please make sure that the washer sits correctly in the union.

If connection is to be made to a stopcock with a short 3/4" thread, the extra washers enclosed should **also** be inserted in the inlet hose union to compensate.

If connection points are subject to mains water pressure. Turn on the stopcock slowly and check for leaks. Correct the positioning of the washers and screw unions if appropriate.

If replacing the inlet hose only use a hose able to withstand pressure of up to 7 MPa. This also applies to all fittings used. Miele hoses fulfil this condition.




Extension hoses 2.5 or 4.0 m in length are available as optional extras.

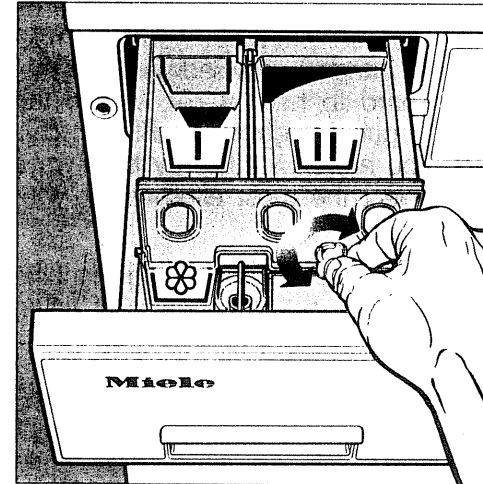
The pressure hose and solenoid inlet valve are designed for water pressures of between 0.1 and 1 MPa. At higher water pressures it is essential to fit a reducer valve.

The two dirt filters, one at the inlet point, one in the pressure hose union, must not be removed.

There is a minimum flow pressure of 0.1 MPa pressure if 5 litres of water flow into a suitable container in 15 seconds.

The **detergent dispenser** has three compartments:

- Compartment  for pre-wash
- Compartment  for main wash
- Compartment  for liquid fabric conditioners



For programmes **without** pre-wash the detergent can be added straight into the drum – before loading the items to be washed.

This is advisable:

- where greater amounts of detergent are required, for example in hard water areas;
- with detergents which do not dissolve easily;
- with low water pressure.

The ball valve in this washing machine ensures that the detergent is fully utilized and not drained away too soon.

Only use detergents suitable for automatic washing machines.

- general purpose low-lather powder detergents.

- liquid detergents for low temperature programmes without pre-wash.
- special detergents for certain textiles, e.g. synthetic fibres or wool.
- pre-wash detergents for treating special types of stain.


Dosage

The amount of wash powder/liquid used depends on **fabric, load, soiling** and especially on **water hardness**.

Water hardness

Hardness range	water	mg/litre	Clark's scale	dH (German)
1	soft	up to 135	up to 10°	0-7°
2	medium	up to 250	10° to 20°	7-14°
3	hard	up to 380	20° to 25°	14°-21°
4	very hard	over 380	over 25°	over 21°

Before using your machine for the first time, please consult your local Water Authority for the water hardness in your area.

Lift up the lid of the fabric conditioner compartment () and set the hardness indicator dial.

If the detergent manufacturer's directions specify **quantities** with reference to the **water in the drum**, the relevant amounts for basic programmes (main wash) are:

- Cottons and Minimum iron: approx. 15 litres of water
- Delicates and Woollens: approx. 25 litres of water.

Adding detergent

Several factors affect the amount of detergent needed.

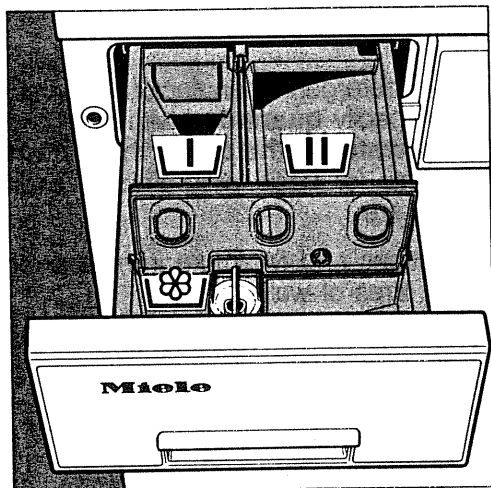
- Use **more** for heavy soiling, hard water;
- Use **less** for light soiling, soft water, smaller loads.

Under-dosing leads to greying of whites, deposition of greasy particles on washing, and lime deposits on the heater elements and drum.

Over-dosing wastes detergent. Too much foam may form. Residual powders in fabrics may give a harsh feel.

Adding liquid detergent

Most liquid detergents are used only up to a maximum temperature of 60°C. Pre-wash can usually be omitted. The amount recommended by the manufacturer normally relates to a main wash only. Pour into compartment **III**. If using a "dispenser ball", follow the detergent manufacturer's instructions.



Adding powder detergent

There is usually a guide on packets of detergent advising on amounts to be used with either just a main wash, or both pre-wash and main wash. To take best advantage of the water levels and drum action in this Miele machine a division of 1/3 pre-wash and 2/3 main wash is generally advised by us for medium hard to hard water. Where the packet guide suggests a different division you are advised to try both ways and select the most effective for your wash.

The ball valve in this washing machine ensures very economical use of detergent.

N.B. If using a water softening agent, put the amount of detergent, adjusted if necessary, into the appropriate compartment(s), then add the water softener according to the manufacturer's instructions on top of this, so that it is flushed in better.

Electrical connection

The machine is supplied for connection to an a.c. single phase 240 V, 50 Hz electricity supply.

Rated load: 2.4 kW

Plug rating: 10 A

Connection cable: approx. 2.0 m long.

All electrical work should be carried out by a qualified electrician in accordance with national and local regulations.

Important

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

Green/yellow = earth

Blue = neutral

Brown = live

The wire which is coloured green and yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol \perp or coloured green or green and yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter A or coloured red.

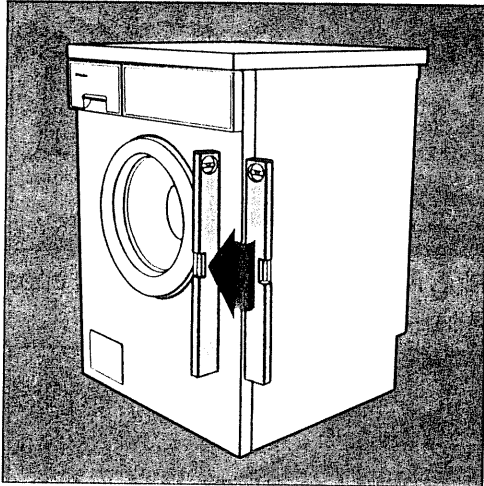
WARNING

THIS APPLIANCE MUST BE EARTHED.

Installation

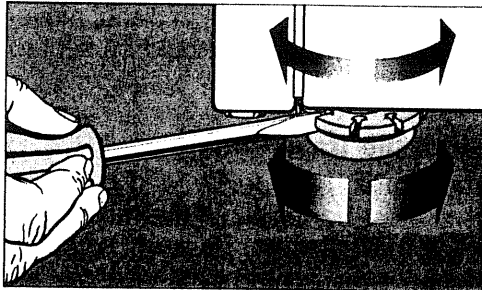
Levelling the machine

Small differences in floor level and height of adjacent furniture can be compensated for by adjustment of the four screw feet. A spirit level may be used for checking purposes and should be applied to the corners of the front and side walls.



If the machine is to be installed between other units, measure and adjust the back feet before pushing into place.

Screw out the feet until the machine stands level. On completion of the adjustments the locknuts must be tightened using a screwdriver. Hold the screw foot with suitably sized pliers (water pump pliers).



Building under

It is possible to install this appliance under a continuous worktop, by using a special conversion kit, available from the Miele Spare Parts Department.

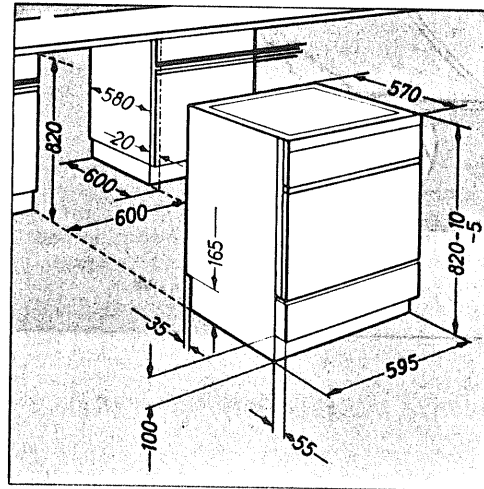
The machine lid is replaced by a cover plate. This **must** be fitted exactly according to the fitting instructions to ensure electrical safety.

For installation under a work surface 900-910 mm from the floor, a spacer kit is available from Miele dealers and the Miele Spare Parts Department.

Water inlet and outlet connections should be close to the appliance and easily accessible, as should the electricity supply.

Installation instructions are included with the conversion kit.


For appliance, and building under dimensions see diagram.

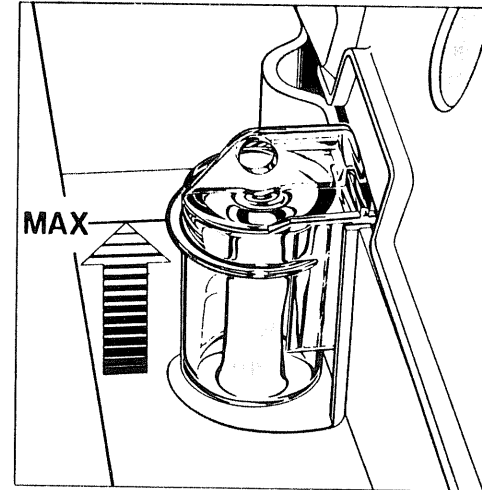


Adding fabric conditioner

Fabric conditioner

Fabric conditioner makes garments soft and fluffy to handle and helps prevent static electrical charges from building up on synthetic materials.

- Raise the plastic flap of the  compartment in the dispenser.




- Add fabric conditioner according to manufacturer's instructions, but do not exceed the upper level ring marker inside the compartment, as then conditioner will run in too early and be wasted.
- Close the plastic flap of the compartment and then push in the dispenser.

The conditioner will be dispensed automatically in the last rinse.


At the end of the programme a small amount of water will remain in the conditioner compartment. This water is needed to pre-dilute thick or concentrated conditioners, and ensure that thicker liquids run in smoothly. If however this compartment is full of water at other times, then either the siphon is blocked, or the dispenser drawer was opened during the last programme and the siphon effect disturbed. Clean as described on page 19.

Starching

Retexturisers and **synthetic starch formulation** are used to put body into shirts, blouses, tablecloths, bedlinen, etc.

Never use either of these together with fabric conditioner, as this could lead to a serious blockage of the system. Add this type of preparation to the  compartment, following the manufacturer's instructions, but not above the ring marker.

Separate "Starch" programme

- If using prepared powder or liquid "natural" starch see page 16 for programme detail. Add to compartment  , according to manufacturer's instructions.
- A low water level is recommended for best effect. Set the higher water level micro-switch to neutral, see p.26).

Programme selection

The following programmes or part programmes are available with this machine:

- Cottons
- Minimum iron
- Delicates
- Woollens
- Starching
- Spin
- Drain
- Short programmes for Cottons and Minimum iron.

Controls

Programme selector switch

- This switch must only be turned clockwise, (in the direction of the arrow), and only when the machine is switched off to select a programme.
- For normally soiled washing set the programme selector to start at the **Main wash**.
- **Pre-wash**: select only for heavily soiled or stained washing. Pre-wash is not available with Woollens programmes.
- Short: turn selector to the appropriate Cottons or Minimum iron "short" position for lightly soiled articles. The main wash is shortened, cutting out the "wash time guarantee", (n.b. do not also reduce temperature as this could impair results).
- Once a programme has been started by pressing the "On-Off" button, the programme selector gradually progresses to show which stage the programme cycle has reached.

- To switch off / stop a programme (prematurely): turn the selector to the "Drain" position. When it has moved to "Finish" press the "On-Off" button to switch off the machine.
- To interrupt a programme: switch off the machine. Then switch on again.
- To alter the programme chosen: (e.g. from Cottons to Minimum iron), turn the programme selector to the "Drain" position. After it has moved to "Finish" select the programme (and temperature) required, and switch on again.

Programme continuation after "Rinse hold"

- Without spin: turn the programme selector to "Drain".
- With spin: turn the programme selector to the adjacent "short spin" position. The appropriate short spin for the programme will follow.

Temperature selector

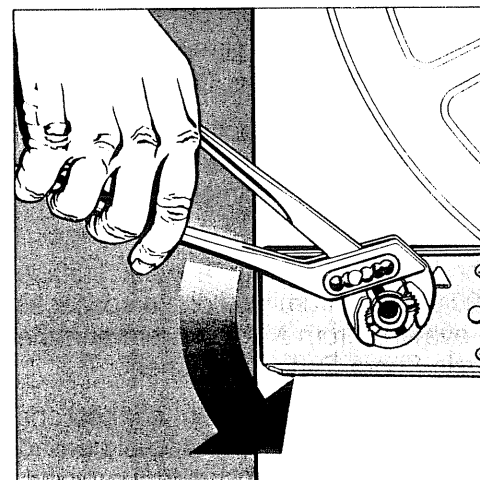
- Set the temperature between cold and 95°C according to the fabric and its wash care label. The selector can only be turned clockwise from cold to 95°C and back again.

Spin speed

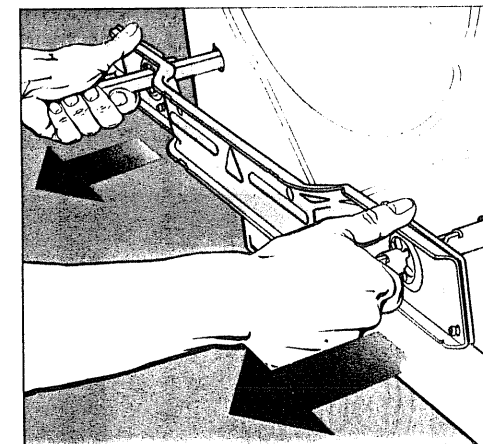
- Set the spin speed required for your washing.
- If using a tumble dryer afterwards, choose the highest **appropriate** spin speed to save energy.
- With Minimum iron and Delicates the maximum spin speed is automatically limited to 800 rpm, with Woollens to 900 rpm, to protect your washing.

Installation

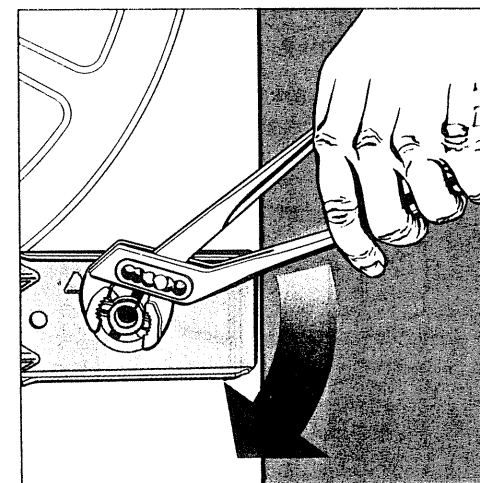
Using a pipe wrench, turn the left hand transit bar 90° anti-clockwise.



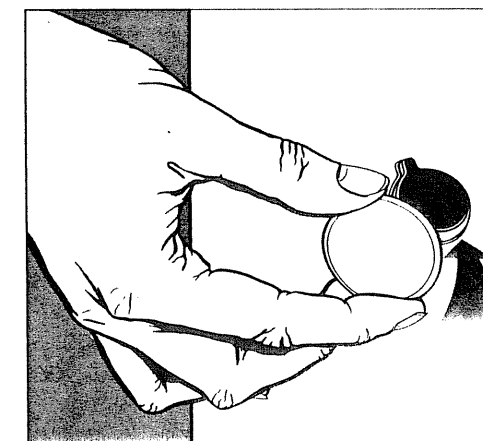
Withdraw the two bars together with the support plate.



Turn the right hand bar 90° clockwise.



Plug the two holes with the plastic caps supplied.



Without the transit fitting in place, movement of the machine should be kept to a minimum.

Store the transit fitting

The transit bars, plate and retaining clips must be re-fitted if the machine is to be moved again. Re-fitting is carried out by reversing the procedure.

The following points should be considered when installing the machine. The behaviour of the machine, especially during spinning, is very much dependent on the nature of the floor on which it stands. Experience has shown that rigid concrete floors are far less prone to vibration than wooden boards or "soft" floor coverings.

- The machine must be level and stable.
- To avoid vibrations during spinning, the machine should not be installed on soft floor coverings.
- If installation must be on a board floor, we recommend the use of a plywood base at least 3 cm thick and 60 x 60 cm wide, and wide enough to span several joists to which it should be firmly fixed with screws.
- As a general rule we recommend the installation of the machine (or washer/dryer stack) in a corner of the room.

The floor under the machine is subjected to a load of approx. 1600 Newton (approx. 160 kg).

- If the machine is positioned on a stable plinth, it should be held in place with retaining clips (available from the Miele Spare Parts Dept.), or the plinth should be provided with a rim 1 to 2 cm high.

Washer Dryer stack

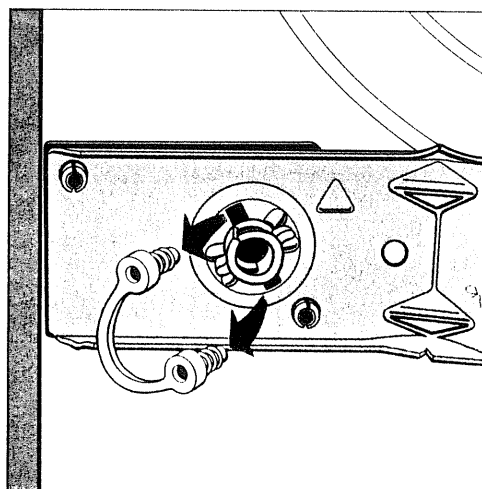
A Miele tumble dryer can be stacked with this washing machine. A stacking kit can be purchased from the Miele Spare Parts Department.

Installation

Lift the machine from its packaging base and move it to its site. Do not lift the machine by the drum door. Ensure that the machine feet and the floor are dry to prevent the machine from slipping during the spin cycle. For the same reasons, do not use any lubricant to facilitate moving the machine.

Removing the transit fitting


Using combination pliers, pull out the plastic retaining clips on the right and left of the support plate.



Gentle action

- This option is ideal for lightly soiled, delicate items which tend to fluff or pill.
- Drum movement is halved.
- This function can be chosen for Cottons, Minimum iron and Delicates programmes. Its use is especially advised where the wash care symbol shows a bar beneath the bucket.

Delicates

- This programme is particularly suitable for fabrics needing special care.
- If this button is pressed in addition to the selection of the "Minimum iron" programme, the water levels increase in the pre and main wash. (N.B. the symbol  on the facia denotes high water level, it is not a wash care label symbol).

All buttons return to the unengaged position when the "Door" button is pressed in.

"Door" button: press this in to open the door.

"On-Off" button: when this is pressed in the machine is switched on.











Higher Water level

In areas with very soft water, or where a more critical rinse is required a higher water level can be selected during rinsing in the cottons programme (see page 26).

Washing sequence:

1. Load washing, shut the machine door.
2. Turn on the stopcock.
3. Add detergent.
4. Select the programme and any additional options.
5. Select the temperature and spin speed,
6. Switch on.

Programme selection

Programme	Fabric	max. load
Cottons without pre-wash 	Normally soiled white cotton and linen fabrics without special finishes.	5 kg
Cottons without pre-wash   	Machine washable cotton, linen or viscose fabrics, up to the temperature indicated on the wash care label.	5 kg
Minimum iron without pre-wash  	(60°C) White nylon, white polyester fabrics (50°C) Coloured nylon, polyester, cotton and viscose fabrics with special finishes, acrylic cotton fabrics, coloured polyester/cotton fabrics. (40°C/30°C) Minimum iron fabrics not washable at higher temperatures (see wash care label).	2 kg
Delicates minimum iron + Delicates button without pre-wash  	Acrylics, acetate and triacetate. Socks and stockings in man-made fibres (but not wool or wool mixture) should also be washed in this programme.	1 kg
	Curtains declared machine washable by the manufacturer (pre-wash probably advisable). Cold – 30°C	Fill drum loosely up to 1/3
Woollens Cold to 40°C  	This tested woollens programme is suitable for all machine washable woollens, bearing the label illustrated, including blankets and wool mixtures with cotton or viscose; silk. There is no pre-wash option.	1 kg
Starch cold	Table cloths, napkins, aprons, some cotton garments.	5 kg
Spin	● Cottons approx. 15 mins	5 kg
Short spin	● Minimum iron approx. 6 mins	2 kg
Short spin	● Delicates approx. 6 mins	1 kg
Short spin	● Woollens approx. 4,5 mins	1 kg
Drain (manual)	When the Cycle stops at "Rinse hold" for Minimum iron, Delicates or Woollens and the washing is not to be spun.	

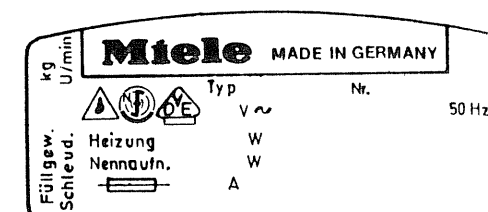
After Sales Service

In the event of any faults which cannot be remedied, or if the appliance is under guarantee, please contact:

- Your Miele dealer or
- The nearest Miele Service Department (see back cover for the address)

When contacting the Service Department, please quote the Model and Serial nos. of your appliance, both of which are shown on the data plate located above the sight glass on the inside of the door.

Specimen:



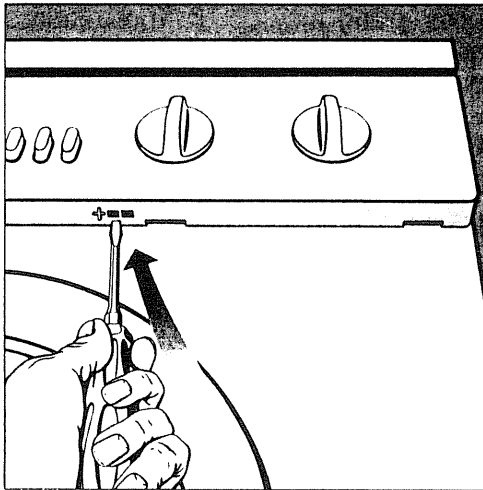
Increasing the water level

A higher water level can be selected during rinsing in the "Cottons" programme by activating the micro-switch situated under the fascia panel.

This is useful

- where extra rinsing is required
- in areas with very soft water.

Activate the micro-switch next to the + sign, as shown in the illustration by applying light pressure, for example with a screwdriver with a narrow blade.



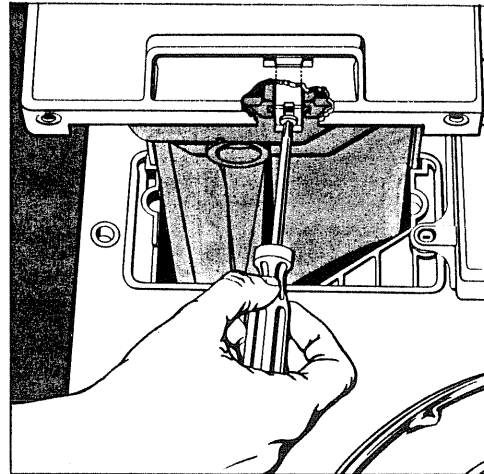
This will now give a high water level during rinsing, until the micro-switch is switched back.

In the Delicates and Woollens programmes a high water level is automatically programmed for washing and rinsing. In the Minimum iron programme there is a high water level for rinsing.

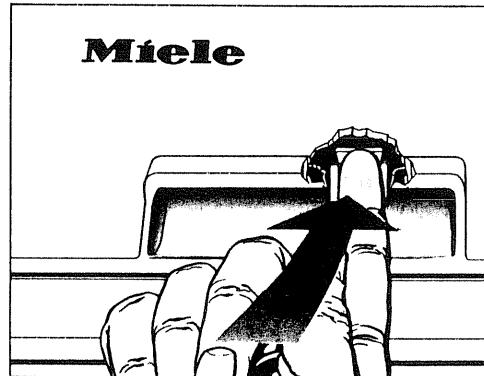
Child resistant safety catch for the detergent dispenser

In order to render the detergent dispenser difficult to open for children, proceed as follows:

- Pull the dispenser box forward.
- Remove the cross slotted screw on the underside (see illustration).



- The child resistant safety catch engages when the box is shut.
- The drawer can now only be opened when the safety catch is pushed upwards (see illustration).



Notes

- with pre-wash – heavily soiled items

- with pre-wash – heavily soiled items
- short – lightly soiled items

- with pre-wash heavily soiled items
- short – lightly soiled items

The programme selector stops at "rinse hold". Turn the selector on to "Short spin" or "Drain", as required.

- with pre-wash – heavily soiled items

The programme selector stops at "Rinse hold". Turn the selector on to "Short spin" or "Drain", as required.

Only spin curtains if the manufacturer recommends it.

The programme selector stops at "Rinse hold". Turn the programme selector on to "Short spin" or "Drain", as required.

The washing should be washed but not treated with fabric conditioner.

The set time can be shortened if required by pressing the On-Off button prematurely.

For lightly soiled washing with easily removable marks **either** select the "Short" option, **or** reduce the temperature when selecting the basic programme.

Programme sequence

	Cottons	Minimum iron
Pre-wash	Optional	Optional
Main wash	●	●
Top-up rinse ¹⁾	●	●
Graduated rinsing ²⁾	–	●
No. of rinses	4	3
Rinse and interim spin	●	–
Graduated spin rpm ⁴⁾	max. 800	max. 800
Final spin rpm ⁵⁾	max. 1100	–
Anti-crease spin and loosen	●	●
Wash rhythm	normal	normal
Water level – wash – rinse	low low ³⁾	low high
Approx. running time in mins	119	61

Explanations

- Function included
- Function not included

1) Top up rinse:

Additional water flows into the drum, so that the dirt is flushed away more efficiently with the suds. The suds are slightly cooled.

2. Graduated rinsing:

The suds are cooled at the end of the wash cycle by the water flowing in and being pumped away at intervals. This minimizes the danger of creasing by avoiding sudden temperature changes.

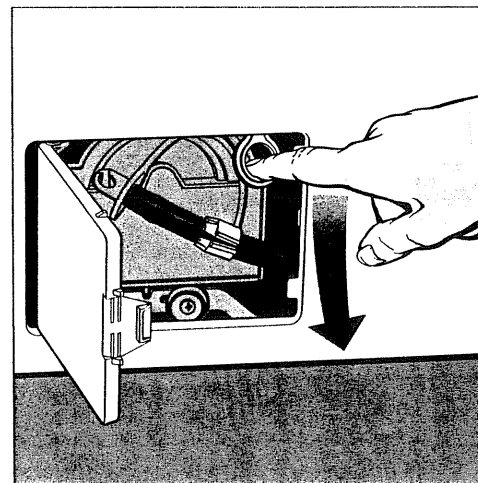
3) Increased water level:

The water level can be increased, (see pages 13 and 26).

Problem solving guide

Use as large a shallow container as possible. It may be necessary to empty it several times.

- Pull the ring of the door mechanism downwards, and the door will open.
- Check that the drum is stationary before reaching into it.



Light or dark grey “greasy” particles cling to clean washing.

The wash load was heavily soiled with greasy substances, e.g. ointments or lotions, and the amount of detergent used was insufficient to break down the particles of grease.

- In future, use liquid detergent for this type of dirty washing.
- Before washing the next load, run a Cottons 60°C programme with liquid detergent without a load to clean the machine.

Brown marks appear on the washing


This can be due to manganese residues from certain types of household water systems. The marks appear mainly on fabrics that were greasy if a phosphate-free powder detergent was used. Either use a detergent containing phosphate, or a liquid detergent, or treat with a suitable rust remover.

After washing, “knobbles” (pilling) appear on the fabric.

In normal everyday wear of certain fabrics, pilling may occur. These fabrics are best washed using a gentle action, e.g. press the “Gentle action” button.

Clothes washed with liquid detergent are not clean

Liquid detergents contain no bleaching agents. Some stains, eg fruit, tea and coffee, remain.

- For such stains use an all purpose washing detergent, or
- add into dispenser compartment  specially formulated stain remover, following the manufacturer’s instructions. Add liquid detergent in a dispenser ball.
- **Liquid detergent and such stain remover must never be added together** into the dispenser.

The water is not pumped away.

- Check for kinks in the drain hose.
- The drain filter and pump may be blocked. If necessary, clean the access as shown on pages 20/21.

The washing is not spun as normal.

This can have the following causes:

- If the spin speed selected was too low, the spin cycle can be repeated.
- The washing was unevenly distributed in the drum, in which case the machine will only spin at a lower spin speed, or not spin at all.
- If large items such as bath mats were rolled up in the drum, the final high-speed spin could have been cut out on safety grounds. The run-up to spin phase is repeated for the normal duration of the spin. Therefore make up loads consisting of both large and small items.

The machine is unsteady during the spin cycle.

This can be caused by the four machine feet being out of alignment.

- Gently tilt the machine diagonally to see which foot is out of alignment.
- See page 30 on how to re-align the machine.

Springy floorboards not only intensify the noise level during the spin cycle, but can also cause the machine to become unstable. (See installation page 28).

Hard water marks in the drum

- Remove these using a proprietary cleaner formulated specifically for use in washing machines.

The door will not open

Check whether

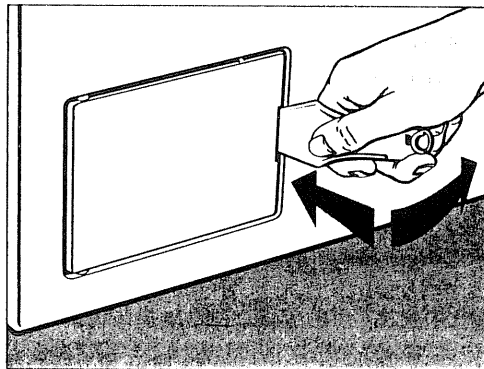
- The appliance is connected to the electricity supply
- The water has drained away
- The drum is stationary

If the door still does not open having checked these points push the door firmly to and then press the door release button again.

To remove the laundry during a power failure.

If necessary, wait until the hot suds have cooled.

- Switch off the machine and turn the programme selector to "Finish".
- Open the access flap to the drain pump with the plastic tool provided or a spoon handle.



- If there is still water in the machine, it must be drained.

Warning Be careful if washing at high temperatures as the suds will still be hot.

Delicates	Woollens ⁶⁾	Starch	Final spin
optional	—	●	—
●	●	—	—
—	—	—	—
●	—	—	—
3	3	—	—
—	—	—	—
max. 800	—	—	—
—	max. 900	max. 1100	max. 1100
●	—	●	●
normal	Woollens ⁶⁾	normal	—
high	high	low	—
high	high	—	—
61	54	20	15

4) Graduated spin

The run up to spin occurs in stages, with the rpm being gradually increased.

5) Final spin

The maximum spin speed according to programme is held constant for a fixed period of time.

6) Woollens:

As wool is susceptible to damage when wet, the drum does not rotate during the heating up period, to avoid a high degree of agitation.

Unloading the washing

After the water has been spun or drained away, the washing can be removed when the drum is stationary.

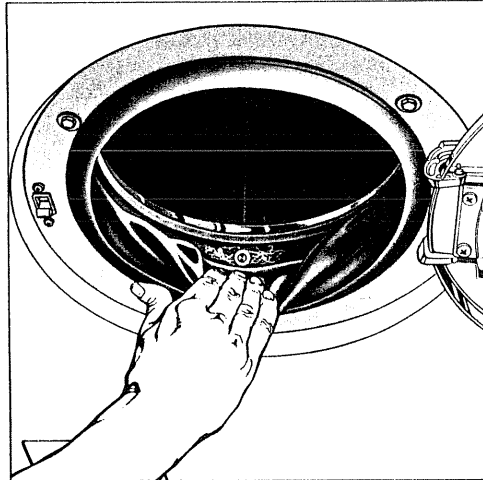
The **Cottons** programme finishes with a spin.

The **Minimum iron, Delicates and Woollens** programmes halt at "rinse hold", with washing suspended in water to avoid creasing. To complete the cycle, either turn the selector switch to "Drain" if no spin is required, or to the appropriate "Short spin" setting.

Proceed as follows:

- Turn off the machine
- Remove the washing
- Turn the programme selector switch to the "Finish" position
- Turn off stopcock.
- turn the drum to make sure that it is empty, and smaller items have not stuck to the sides of the drum. Any articles left in the drum could be washed in an unsuitable programme next time, or the colours could run.

- Check the folds in the door seal for any small articles such as buttons, or other foreign bodies which might be lodged there.



- Shut the appliance door so that small animals such as cats do not climb into the drum, and children do not hide their toys in there, which could lead to tears and spoilt washing.

Important

The suds filter described on pages 20/21 helps avoid blockages in the drainage system.

At first check the filter after every three or four washes. This will give an idea of how often you need to clean it. With fabrics that give off a lot of lint or fluff it will be necessary to clean it more often.

Problem solving guide

Any work on the electrical components of this appliance should only be carried out by a suitably qualified and competent person.

Unauthorised repairs could be dangerous.

With the aid of the following explanatory notes, however, minor faults can be corrected without contacting the Miele Service Department.

There is no water intake after the programme has been selected.

Check whether

- the plug is correctly inserted
- the drum door is closed properly
- the stopcock is turned on.

The machine fills too slowly although the mains water pressure is sufficient.

- The filters in the water inlet hose or valve could be blocked. Inspect and, if necessary, clean (as shown on page 22).

Residues of detergent in the dispenser

The water pressure is probably too low.

- Clean the water inlet filters, (see page 22).
- Check if the water flow through the stopcock is 5 litres in 15 seconds.

Residues can collect when a water softener is added at the same time.

- Add first the detergent then the softener.

The fabric conditioner is not flushed in properly or there is too much water in the conditioner compartment.

- Check whether the siphon is incorrectly positioned or blocked. Clean as described on page 19.

Too much foam builds up during the wash.

To avoid the problem at the outset:

- Only use a suitable low lather detergent.
- The water hardness must be taken into account for dosage of detergent.
- For lightly soiled articles or a small load, reduce the amount of detergent accordingly.
- Pre-soaked items should be rinsed thoroughly before washing.

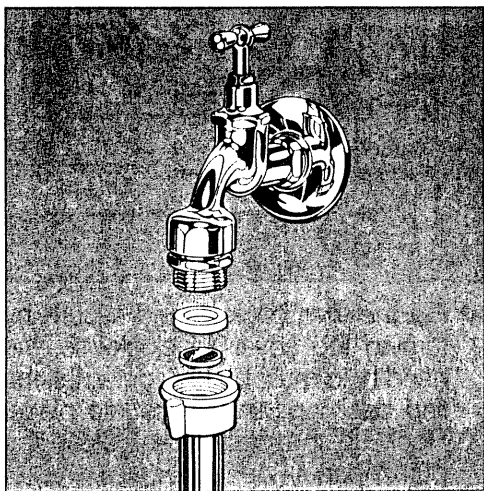
Cleaning the filters in the water inlet

(First turn off the stopcock)

The washing machine has two inlet filters to protect the inlet valves:

To clean the **filter in the inlet hose**:

- Carefully unscrew the knurled coupling connecting the inlet hose to the stopcock anti-clockwise, using pliers if necessary.

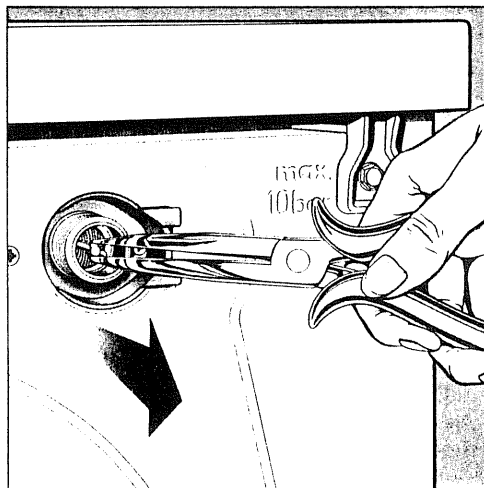


- Remove the rubber seal from the recess.
- Using pointed pliers, take hold of the plastic filter bar and remove the filter. Clean.
- Put filter back and re-connect hose. Check the connection is watertight.
- Inspect the inlet hose which is subjected to high pressure while the machine is in operation. The hose should be replaced if there are small cracks in the surface, or if it has been otherwise damaged.

If replacing the inlet hose only use a hose able to withstand pressure up to 70 bar. Miele's own hoses meet this requirement.

To clean the filter in the **water inlet valve**:

- Using pliers, carefully loosen the ribbed plastic nut on the inlet valve, and unscrew.
- Use water pump pliers to withdraw the plastic filter by the bar. Clean and put back.

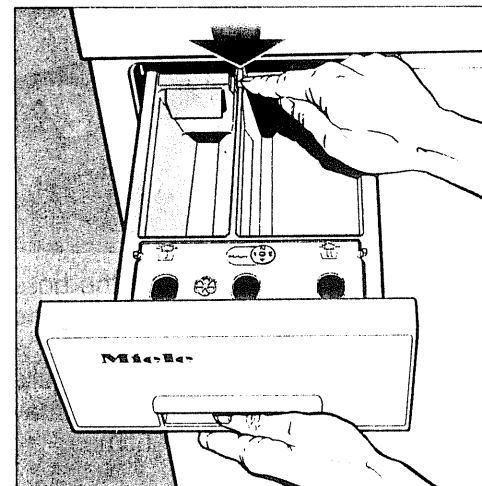
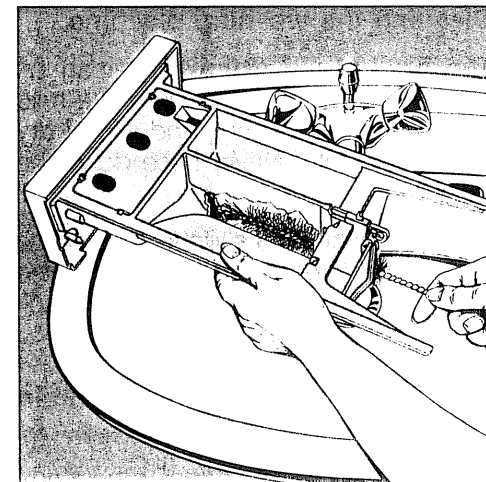


These two filters must always be put back after cleaning, and the machine must not be operated without them in place.


Cleaning the detergent dispenser box

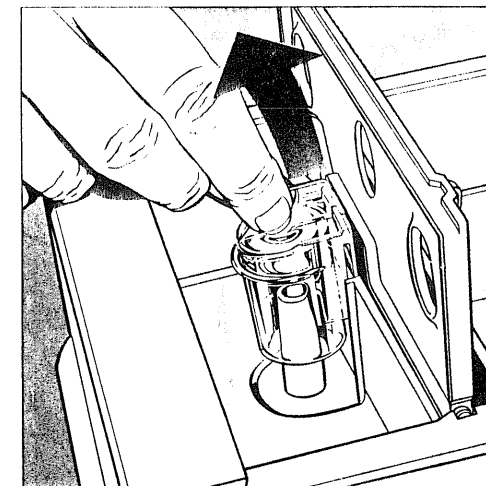
It is occasionally necessary to clean the detergent dispenser, especially with low water pressure, or with some detergents and fabric conditioners which tend to be sticky.

- Pull out the detergent dispenser box until a resistance is felt.
- Press the now visible red release knob, and simultaneously pull the detergent box right out of the machine.



- Clean the dispenser compartments with warm water. If necessary use a bottle brush to clean the fabric conditioner channel from the rear, as illustrated.

- Pull the siphon tube up out of compartment , and clean it with warm water.



Put back in place.

- Slide the detergent box back into place along the guide rails, press the red release knob and push the box right in.

Cleaning the washing machine

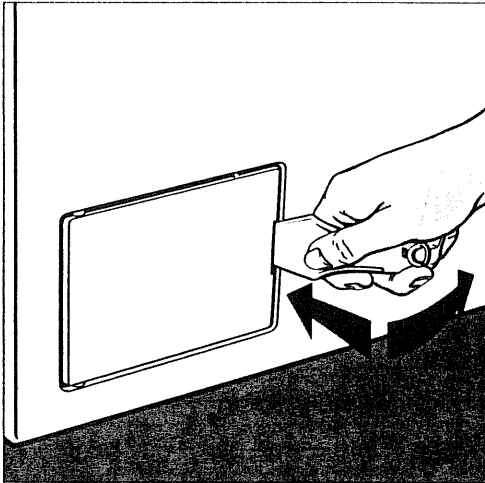
The **casing** and **drum door** can be cleaned with soap and water or a mild non-abrasive detergent, and wiped dry with a soft cloth. Never hose down the machine.

The fascia panel and switches should be wiped with a damp cloth. Do not use cleaners with a scouring effect or solvents.

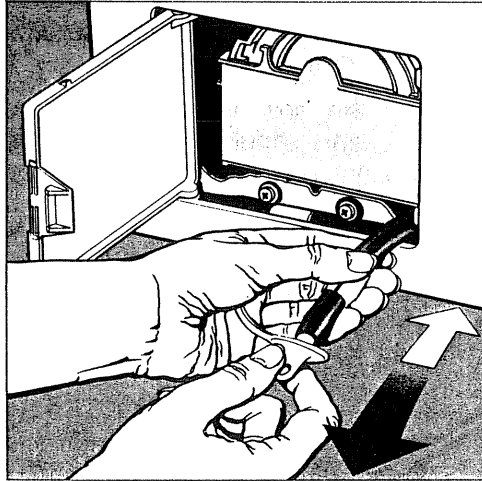
Cleaning the drain filter / drain pump

To ensure correct drainage, without any blockages, check the drain filter and pump from time to time, and clean if necessary.

- Switch off the machine before cleaning.
- Open the pump panel as shown.



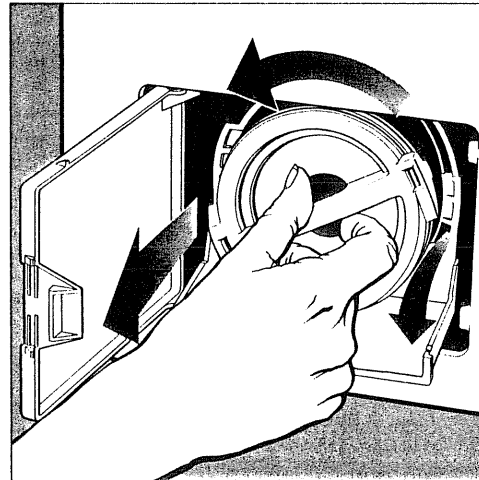
- Place a shallow container with a capacity of at least 1.5 litres in front of the machine. Unhook the drain hose on the right hand side of the filter, pull out the plug and drain off any water left in the machine into the container.



When doing a hot wash, or if the hose is hot, **take care, the water may be very hot.** In the case of a drainage fault, or where the outlet is sited quite high, (eg up to 1 m), the container may need to be emptied several times.

When no more water runs out, replace the stopper on the hose.

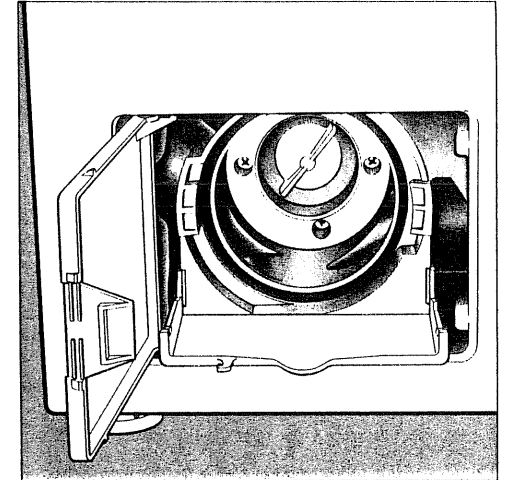
- Pull down the flap in front of the cover. Put a shallow dish under the flap.



- Turn the cover lid anti-clockwise and remove slowly.

Take care: (If the drain hose is blocked, water could gush out). Then clean the filter and the inside pump housing, checking for any obstructions, back as far as the drain pump wing.

- Then, turn the drain pump wing gently with the finger to check that nothing is restricting it (the wing must turn easily). Remove any obstructions.



- Put the filter back in and secure by turning the cover lid clockwise, the hand hold must be horizontal. Lift the flap back up, and press into place. Hook up the drain hose. Close the pump panel.

When this cleaning operation has been undertaken, the ball valve does not fulfil its sealing function until the next time water has been taken into the machine and then pumped away.

Select the "Starch" programme setting. As soon as the drum begins to turn, turn the programme selector switch to the "Drain" setting. Switch off. The ball valve is now functioning again.