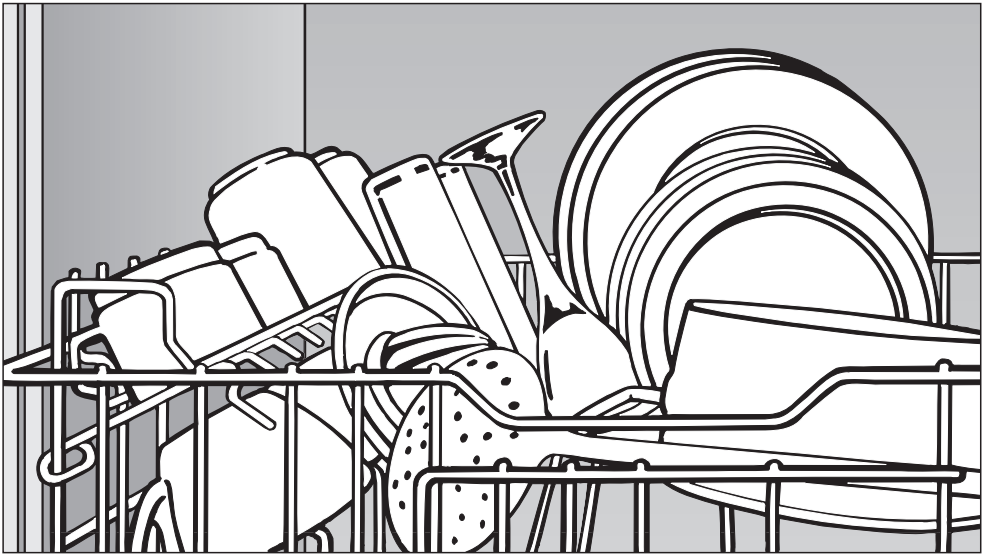
Miele

Operating instructions



for dishwashers

It is **essential** to read the operating and installation instructions before installing, commissioning or using the machine, to avoid the risk of accidents or damage to the machine.

GB

M.-Nr. 06 077 760

Contents

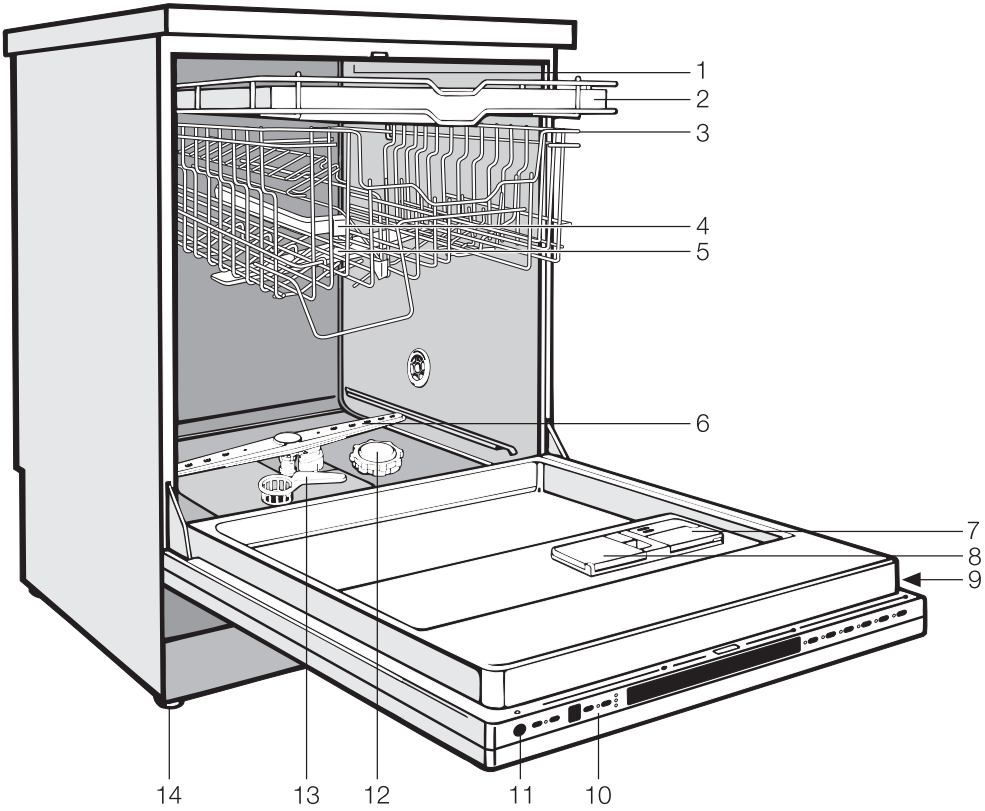
Guide to the appliance 4
Appliance overview 4
Control panel 5
Warning and Safety instructions 6
Caring for the environment 10
Disposal of the packing material 10
Disposal of your old appliance 10
Energy saving washing 10
Before using for the first time 11
Before using the appliance for the first time you require: 11
To open the door 12
To close the door 12
Filling the salt reservoir 13
Salt indicator 14
Rinse aid 15
Adding rinse aid 15
Rinse aid indicator 16
Setting the rinse aid dosage 17
Loading the dishwasher 18
Upper basket 19
Flap up rack 20
Positioning rail 20
Adjusting the upper basket 21
Lower basket 22
Variable inserts 23
To remove an insert 23
To fit an insert 23
Hinged spike insert 24
Vario insert 25
Glassware insert 26
Bottle holder 26
Cutlery 27
Items not suitable for dishwashers: 28

Contents

Operation 29
Detergent 29
Adding detergent 30
Programme selection 31
Switching on 32
Starting a programme 32
At the end of a programme 33
Switching off 33
Changing a programme 34
Interrupting a programme 34
Additional functions 35
"Top Solo" ( ) 35
Delay start ( ) 36
Unloading the dishwasher 38
Cleaning and care 39
Cleaning the filters in the wash cabinet 39
Cleaning the spray arms 41
Cleaning the wash cabinet 42
Cleaning the door and the door seal 42
Cleaning the reflector panel 42
Cleaning the control panel 42
Cleaning the door panel 43
Problem solving guide 44
Solving problems 52
Cleaning the water inlet filter 52
Cleaning the drain pump and non-return valve 53
After sales service 55
Optional accessories 56
Comparison tests 57
Transport 59
Programme chart 60
Technical data . . . . . see Installation Instructions

Guide to the appliance

Appliance overview



1 Upper spray arm (not visible)

2 Cutlery tray (depending on model)

3 Upper basket

4 Water feed for middle spray arm

5 Middle spray arm

6 Lower spray arm

7 Rinse aid reservoir (with dosage selector)

8 Dual compartment detergent dispenser

9 Data Plate

10 Control panel

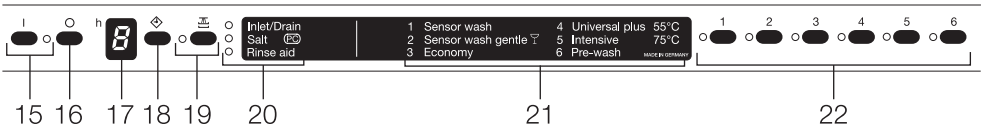
11 In-operation control light

12 Salt reservoir

13 Filter combination

14 Four height adjustable screw feet

Control panel (10)



15 "On" button / indicator light

16 "Off" button

17 Time display for delay start

18 Delay start button

19 "Top Solo" button / indicator light

20 Check/Refill indicators

21 Programme names

22 Programme buttons / indicator lights

Please note:
The programme list is covered by a protective foil on delivery.

- Carefully remove the protective foil before using the appliance for the first time.

This appliance conforms to current safety requirements. Inappropriate use can, however, lead to personal injury and damage to property.
Read the operating instructions carefully before starting to use this appliance. This way you will avoid the risk of accidents and damage to the appliance.
Keep these instructions in a safe place for future reference, and pass them on to any future user.

Correct usage

This dishwasher is intended exclusively for cleaning domestic crockery and cutlery in a domestic household. Using it for purposes other than those for which it was designed, as well as any alterations or conversions to the machine would be unauthorised and could cause harm. The manufacturer cannot be held liable for damage resulting from improper or incorrect use of the appliance.

Delivery

Before setting up the machine check it for any externally visible damage. Under no circumstances should you use a damaged machine. A damaged machine is dangerous.

Please ensure that the packaging material is offered for recycling.

Installation

The dishwasher must be installed and connected in compliance with the installation instructions.

The electrical socket must be easily accessible after the dishwasher has been installed.

There must be no electrical sockets behind the dishwasher. Danger of overheating and fire risk if the dishwasher were to be pushed up against a plug.

In order to ensure stability, built-under and integrated dishwashers must only be installed under a continuous worktop which is secured to adjacent cabinetry.

The dishwasher must not be installed under a hob. The high radiant temperatures which are sometimes generated by a hob could damage the dishwasher. For the same reason it should not be installed next to open fires or other appliances which give off heat, such as heaters etc.

Do not connect the dishwasher to the mains supply until it has been installed.

Check that the voltage, frequency and fuse rating shown on the data plate match the household mains supply.

The electrical safety of this appliance can only be guaranteed when continuity is complete between the appliance and an effective earthing system. It is most important that this basic safety requirement is tested and where there is any doubt, the electrical system in the house should be checked by a qualified electrician. The manufacturer cannot be held liable for the consequences of an inadequate earthing system (e.g. electric shock).

This equipment is not designed for maritime use or for use in mobile installations such as caravans, aircraft etc. However it may be suitable for such usage subject to a risk assessment of the installation being carried out by a suitably qualified engineer.

A damaged machine is dangerous. Switch off at the mains and call your Miele supplier or the Miele Service Department.

The plastic housing of the water connection contains an electrical component. The housing must therefore not be dipped in water.

There are live wires in the water inlet hose. Never cut the water inlet hose, even if it is too long.

For safety reasons do not operate this appliance on an extension cable. (Danger of overheating).

Daily use

Do not use solvents in the dishwasher. Danger of explosion.

Water in the dishwasher must not be used as drinking water. This water is not drinking water.

Avoid inhalation of powder detergents. Do not ingest dishwasher detergent! Dishwasher detergents contain irritant or corrosive ingredients. They can cause burning in the nose, mouth and throat if swallowed, or inhibit breathing. Consult a doctor immediately if detergent has been swallowed or inhaled.

Do not sit or lean on the opened door. This could cause the dishwasher to tip and be damaged and you could get injured.

In an appliance with a cutlery basket (depending on model) cutlery is cleaned and dried more efficiently if placed in the basket with the handles downwards. However, to avoid the risk of injury place cutlery with sharp points with the handles upwards.

Only use detergents formulated for domestic dishwashers. Do not use washing-up liquid.

Only use rinse aid formulated for domestic dishwashers.

Only use special coarse grained dishwasher salt for reactivation. Do not use other salts such as cooking salt, agricultural grade or gritting salt. These may contain insoluble additives which can impair the functioning of the water softener.

Plastic items which cannot withstand being washed in hot water, such as disposable plastic containers, or plastic cutlery and crockery should not be cleaned in the dishwasher. The high temperatures in the dishwasher may cause them to melt or lose shape.

Take care on dishwashers with a visible heater element
(depending on model)

Do not touch the heating element during or directly after the end of a programme. It will be hot. Danger of burning!

Some plastic items could melt or catch fire if they were to come into contact with the heating element. Therefore always place plastic items or any other items which may not be completely heat resistant in the upper basket and ensure they cannot drop down onto the heater element.
Any items which are too small to be lodged securely in the upper basket should not be cleaned in the dishwasher.

Safety with children

This appliance is not a toy! To avoid the risk of injury, do not allow children to play on or near it, or to play with the controls. There is a danger that children could shut themselves in the dishwasher. Supervise its use by the elderly or infirm.

Keep children away from detergents. Dishwasher detergents contain irritant or corrosive ingredients. They can cause burning in the mouth, nose and throat if swallowed, or inhibit breathing. Consult a doctor immediately if your child has swallowed or inhaled detergent.

To avoid the danger of children coming into contact with the dishwasher detergent: only add detergent just before starting the programme and close the door, activating the child safety lock (depending on model). Keep children away from the dishwasher when the door is open. There could still be detergent residues in the cabinet.

To ensure children do not come into contact with detergent on models with the "Delay start" function make sure the dispenser is dry before adding detergent. Wipe dry if necessary. Detergent will clog if poured into a damp dispenser and may not be thoroughly dispersed. If the door is open at the end of a programme, children may come into contact with this residue.

To avoid machine and material damage

Do not fill the rinse aid reservoir with powder or liquid detergent. This will cause serious damage to the reservoir.

Inadvertently filling the salt reservoir with powder or liquid dishwasher detergent always leads to serious damage to the water softener. Make sure you have picked up the correct packet of dishwasher salt before filling the salt reservoir!

Do not use commercial or industrial detergents as these may damage material and there is a risk of severe chemical reaction.

The Miele Waterproof System offers protection from water damage, provided the following conditions are met:

– The dishwasher is correctly installed and plumbed in.

– The dishwasher is properly maintained and parts are replaced where it can be seen that this is necessary.

– The stopcock has been turned off when the appliance is not used for a longer period of time (e.g. during holidays).

In countries where there are areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in a clean condition at all times. Any damage which may be caused by cockroaches or other vermin will not be covered by the appliance guarantee.

Repairs and maintenance

Repairs may only be carried out by suitably qualified and competent engineers in accordance with local and national safety requirements. Repairs and other work by unqualified persons could be dangerous.

Always disconnect the appliance from the electrical supply for maintenance work (switch off at wall socket and remove the plug, or remove the screw out fuse in countries where this is applicable).

Disposal of your old appliance

When disposing of an old dishwasher first make it unusable. Disconnect, cut off the cable and the plug from the cable. Make the door lock inoperative by unscrewing 2 cross-slotted screws, so that children cannot accidentally shut themselves in. Make appropriate arrangements for the disposal of the appliance.

The manufacturer cannot be held liable for damage caused by non-compliance with these Warning and Safety instructions.

Disposal of the packing material

The transport and protective packing has been selected from materials which are environmentally friendly for disposal and can normally be recycled.

Ensure that any plastic wrappings, bags etc. are disposed of safely and kept out of the reach of babies and young children. Danger of suffocation!

Rather than just throwing these materials away, please ensure that they are recycled.

Disposal of your old appliance

Old appliances contain materials which can be recycled. Please contact your dealer, your local waste collection centre or scrap merchant about potential recycling schemes.

Ensure that the appliance presents no danger to children while being stored for disposal. See the appropriate section in the Warning and Safety instructions.

Energy saving washing

This dishwasher is exceptionally economical in its use of water and electricity. You can make the most of your appliance by following these tips:

- If your household water system is suitable, this dishwasher can be connected to a hot water supply, for further economies.
  Although all stages of the wash then take place with hot water, savings are made in:
  - the use of primary energy,
  - costs,
  - programme running times.
  If, however, your water is heated by electricity we would still recommend connection to cold water.
- For most economical dishwashing make full use of the baskets without overloading the dishwasher.
- Choose the programme to suit the type of crockery being washed and the degree of soiling.
- The "Top Solo" function should only be selected for washing very small loads of crockery (see "Additional functions").
- Select the Economy programme for energy-saving dishwashing.
- Use the correct amounts of detergent.
- Use only 2/3 of the given dosage if baskets are only half full.

Before using the appliance for the first time you require:

– approx. 2 litres of water,

– approx. 2 kg dishwasher reactivation salt,

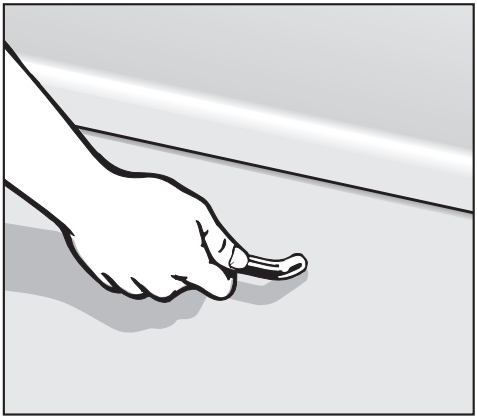
– domestic dishwasher detergent,

– rinse aid formulated for domestic dishwashers.

The dishwasher is fitted with a water softener sensor. This automatically sets the water softener unit for the local water hardness level.

Every dishwasher is tested at the factory.
There will be residual water in the appliance from this test. It is not an indication that it has been previously used.

To open the door



- Pull on the handle.

If the door is opened during operation all functions are automatically interrupted.

Instructions for opening the door before the machine door front has been fitted are given in the Installation instruction booklet.

To close the door

- Push the baskets right in.
- Lift the door upwards, and push until it clicks into position.

Filling the salt reservoir

In order to achieve good cleaning results, the dishwasher needs to operate with soft water. Hard water results in the build-up of calcium deposits on crockery and in the dishwasher.
Mains water with a hardness level higher than 0.7 mmol/l (4° d – German scale) needs to be softened. This takes place automatically in the built-in softener unit.
The softener unit needs reactivation salt.

- Your local water authority will be able to advise you of the water hardness level in your area.

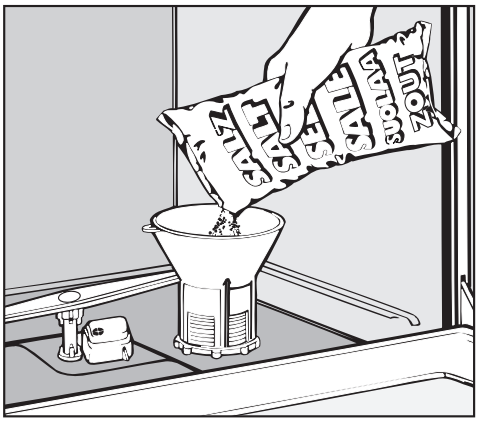
If the water in your area is very soft and constantly lower than 0.7 mmol/l (4 °d) you do not need to add dishwasher salt.

Important: Before filling the salt reservoir with dishwasher salt for the first time, you must fill it with approx. 2 litres of water to enable the salt to dissolve. Once the dishwasher has been used, there is always sufficient water in the reservoir.

⚠ Inadvertently filling the salt reservoir with powder or liquid dishwasher detergent always leads to serious damage to the water softener. Make sure you have picked up the correct packet of dishwasher salt before filling the salt reservoir!

⚠ Only use special coarse grained dishwasher salt for reactivation. Do not use other salts such as cooking salt, agricultural grade or gritting salt. These may contain insoluble additives which can impair the functioning of the water softener.

- Remove the lower basket and unscrew the salt reservoir cap.
- Fill the reservoir with approx. 2 litres of water (first use).



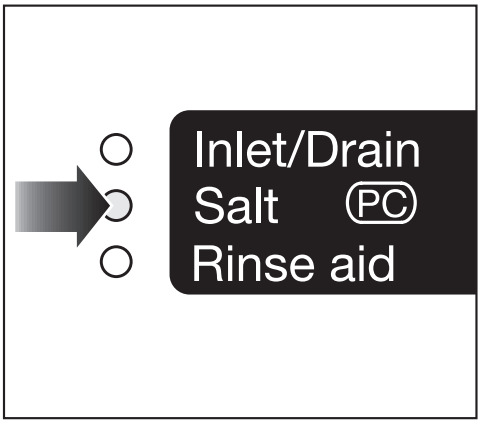
- Place the funnel provided over the salt reservoir and carefully fill with salt until the reservoir is full. The salt reservoir holds approx. 2 kg of salt depending on the brand used.

As the salt reservoir is filled, displaced water will overflow.

- Clean any excess salt from around the reservoir opening and then screw the cap on again firmly.
- Run the "Pre-wash" programme immediately to remove any traces of salt water from the cabinet.

Salt indicator

The salt indicator light in the control panel comes on to notify you that the reservoir is empty.



- The reservoir should then be refilled with dishwasher salt for reactivation. (See: Filling the salt reservoir).

After the reservoir has been filled, the water softener is automatically reactivated the next time the dishwasher is run. The salt indicator light may still be illuminated during this process. It will go out once the salt concentration has reached the correct level.

Note

If the water in your area is very soft and constantly lower than 0.7 mmol (4 °d) you do not need to add salt to the reservoir. The salt indicator light, however, will still come on, but should be ignored.

(See "After sales service" for definition of "PC").

Rinse aid

Rinse aid is necessary to ensure water does not cling and leave marks on crockery during the drying phase and helps crockery dry faster after it has been washed.
Rinse aid is poured into the storage reservoir and the amount set is dispensed automatically.

⚠ Inadvertently filling the rinse aid reservoir with powder or liquid detergent always causes serious damage to the reservoir. Only pour rinse aid formulated for domestic dishwashers into the reservoir.

Alternatively, it is possible to use

– Household vinegar with a max. 5% acid content

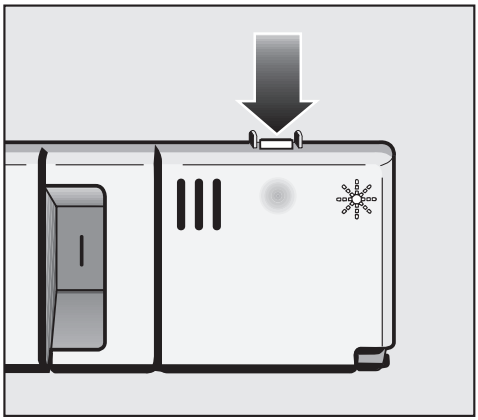
or

– Liquid citric acid up to 50% acid content.

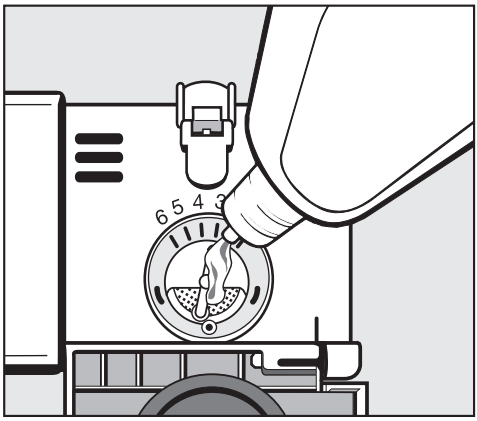
The resulting rinsing and drying quality will not, however, be as good as when rinse aid is used.

⚠ Do not use vinegar with a higher acid content (e.g. vinegar essence 25% acid). This must not be used as its use would damage the dishwasher.

Adding rinse aid



■ Press the button in the direction of the arrow until the flap springs open.



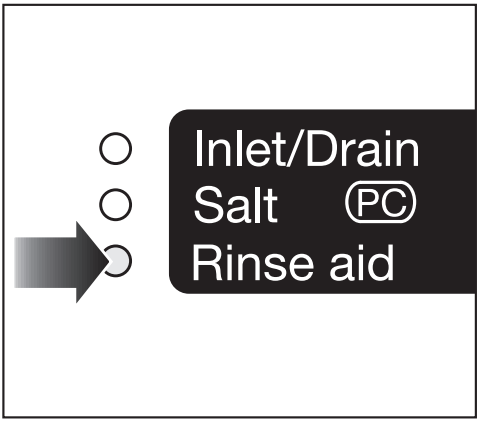
- Add rinse aid only until it is visible on the surface of the filter in the opening.

The rinse aid reservoir holds approx. 130 ml.

- Close the flap firmly so that it clicks into place. Otherwise water would enter the rinse aid reservoir during a programme.
- Wipe up any spilled rinse aid. This prevents over-foaming occurring during the next programme.

Rinse aid indicator

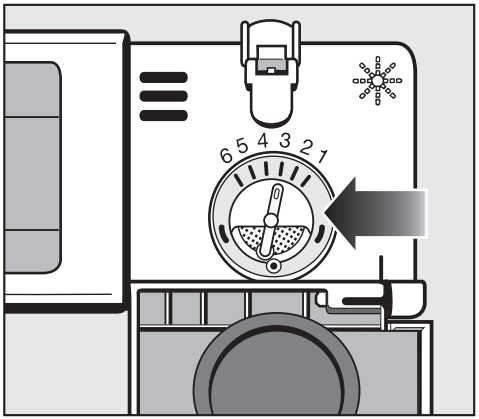
The Rinse aid indicator light on the control panel comes on when the rinse aid reservoir needs to be replenished.



When the light comes on the reservoir still contains sufficient rinse aid for 2 - 3 programmes.

- Add rinse aid in plenty of time.

Setting the rinse aid dosage



The dosage selector has settings from 1-6. It is set to "3" (3 ml) at the factory. Approx. 3 ml of rinse aid are then used per programme. This is a recommended setting.

If spots appear on crockery and glassware:

- Use a higher setting.

If clouding or smearing appears on crockery and glassware:

- Use a lower setting.

Note

- Remove coarse food residues from crockery.

There is no need to rinse items under running water.

⚠ Do not wash items soiled with ash, sand, wax, lubricating grease or paint in the dishwasher. Ash does not dissolve and is distributed in the wash cabinet. Wax, sand, lubricating grease and paint cause damage to the dishwasher.

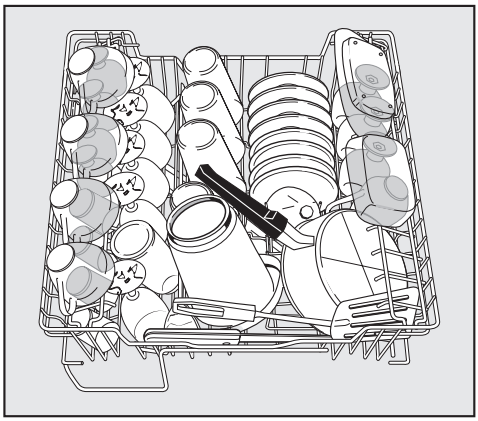
Crockery can be loaded anywhere in the baskets, but the following notes should be observed:

- Do not place crockery and cutlery inside other pieces where they may be concealed.
- Load the crockery so that water can access all surfaces. This ensures that it is properly cleaned.
- Make sure that all items are securely positioned.
- Hollow items such as cups, glasses, pans, etc. must be inverted in the basket.
- Tall, narrow, hollow items, e.g. champagne glasses, should be placed in the centre of the basket to ensure better water coverage.
- Deep based items should be placed at an angle so that water can run off them freely.
- The spray arms must not be blocked by items which are too tall or hang through the baskets.
  If in doubt, test for free movement by manually rotating the spray arms.
- Make sure that small items do not fall through the holders in the baskets. Small items, e.g. lids, should therefore be placed in the cutlery tray or cutlery basket.

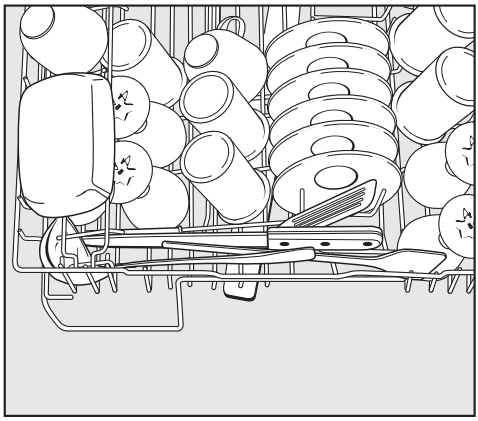
Some foodstuffs may contain natural dyes, e.g. carrots, tomatoes or ketchup. Plastic items in the dishwasher may discolour if large quantities of these foodstuffs find their way into the appliance on the crockery. The stability of plastic items is not affected by this discolouration.

When the dishwasher is being loaded food and drink residue may drip onto the sides of the dishwasher door.
These surfaces are outside the wash cabinet and are not accessed by water from the spray arms.
Food residue should therefore be wiped away before the dishwasher door is closed.

Upper basket



For small, lightweight, delicate items such as cups, saucers, glasses, dessert bowls, etc.
Shallow saucepans or casserole dishes can also be placed in the upper basket.



Long items such as soup ladles, mixing spoons and long knives should be placed lying down across the front of the upper basket.

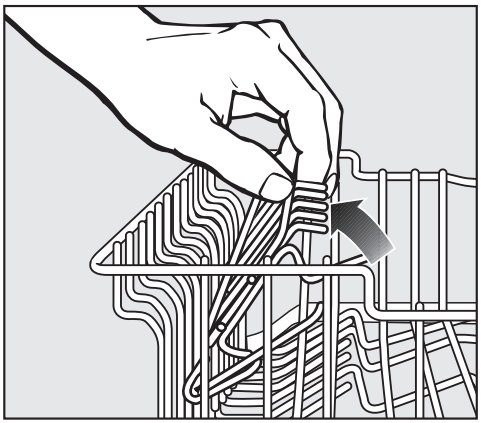
Note for "Top Solo"

If a wash programme has been selected with the additional function "Top Solo", all crockery must be loaded in the upper basket and cutlery tray.

If your dishwasher has a cutlery basket then cutlery should be placed in the cutlery basket with plenty of space between items.

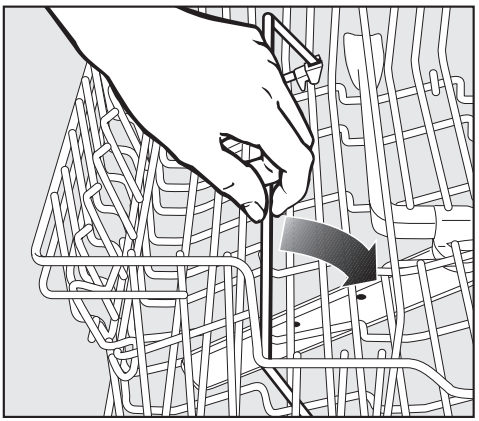
As the middle spray arms also directs water downwards, it is possible to wash lightly soiled plates (with a large diameter) and serving platters in the lower basket, however plenty of space must be left in between items. Do not wash dishes, bowls or other hollow containers when using this function.

Flap up rack



To make room for tall items raise the rack upwards.

Positioning rail (depending on model)



The positioning rail can be flipped over to the middle of the basket for easy sorting and removing of crockery.

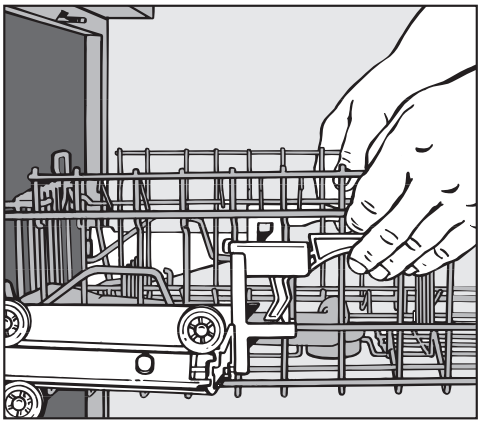
Adjusting the upper basket

In order to gain more space for taller pieces of crockery in the bottom or upper basket, the upper basket can be adjusted on three levels with 2 cm between each level.

The upper basket can also be set at an angle with one side high and the other side low. Ensure however, that the basket can be inserted smoothly into the cabinet.

It is best to adjust the basket before loading it.

- Pull out the upper basket.

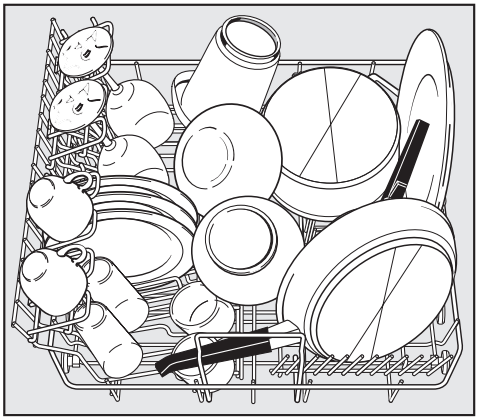


- Pull upwards on the levers at either side of the upper basket.
- Adjust the basket to the desired height.
- Then push the levers securely back down into position.

Depending on the setting of the upper basket, the following plate dimensions can be accommodated.

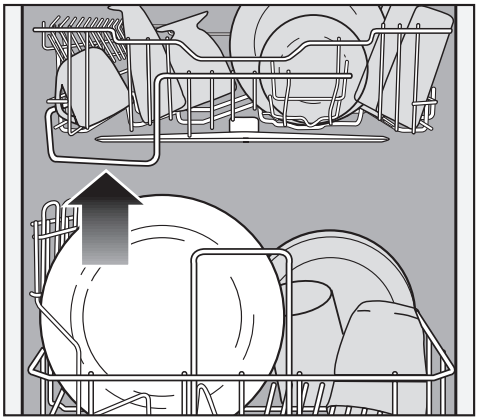
Upper basket level	Plate Ø in cm	
	Upper basket	Lower basket
Top	20	30
Middle	22	28
Bottom	24	26

Lower basket



For larger and heavier items such as plates, serving platters, saucepans, bowls, etc.
Glasses and small items such as saucers can also be placed in the lower basket.

Height limitation



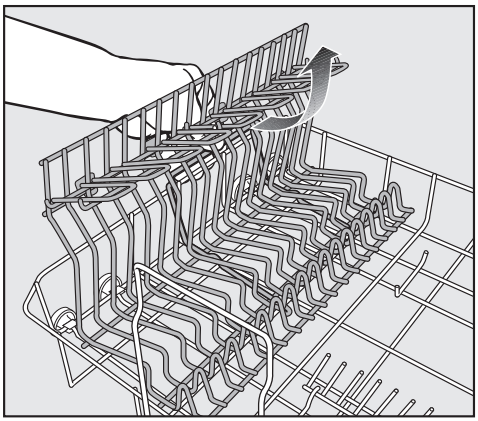
The stay at the front of the upper basket determines the max. height permissible for items placed in the lower basket to ensure they do not impede the movement of the middle spray arm.

Variable inserts

A variety of inserts are available for washing crockery in the lower basket.

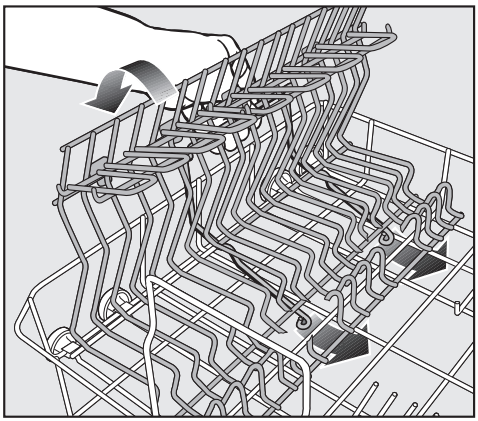
To remove an insert

- Pull upwards by the handle to remove.



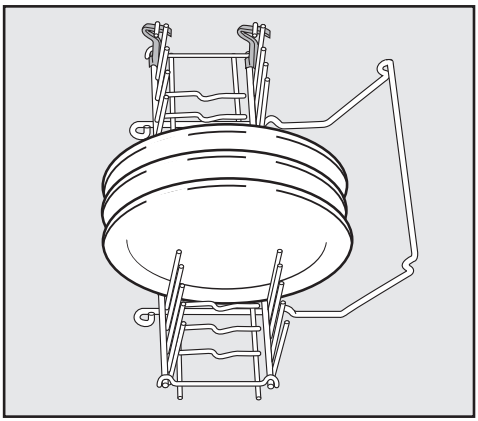
To fit an insert

- Fit the insert into the lower basket with the hooks going under the long cross piece as illustrated.
- Press down on the handle until the insert is securely held in position.

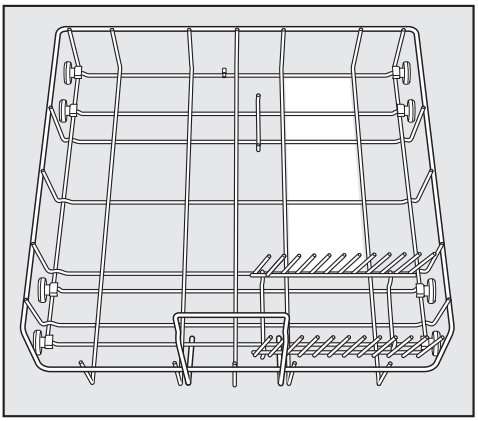


Hinged spike insert

The spike insert is used for washing plates and saucers.

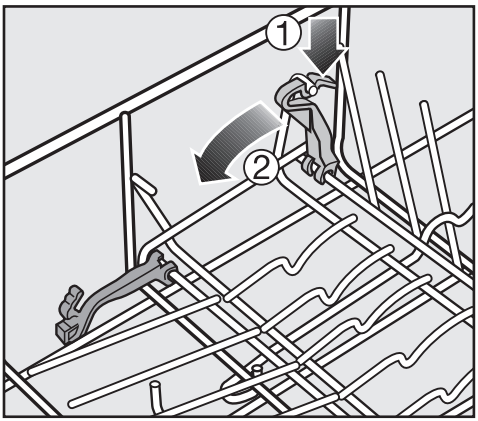


- The hinged spike insert fits in the area marked white at the back right hand side of the bottom basket.



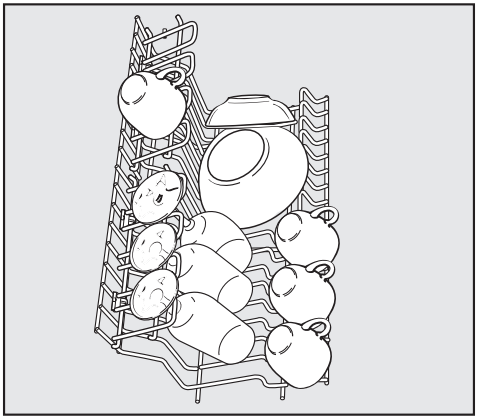
Both sides of the rear section of the spiked insert can be lowered to make more room for large items, e.g. pots, pans and dishes.

- Press the yellow lever downwards and then fold the spikes towards the middle of the basket.

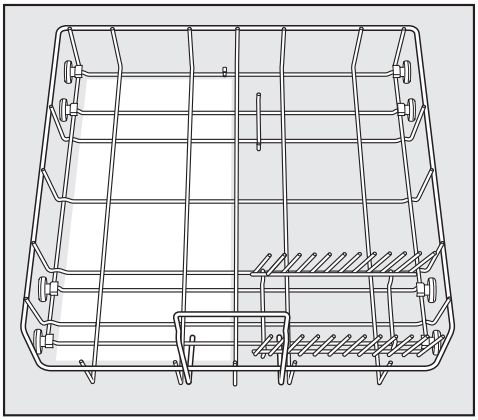


Vario insert

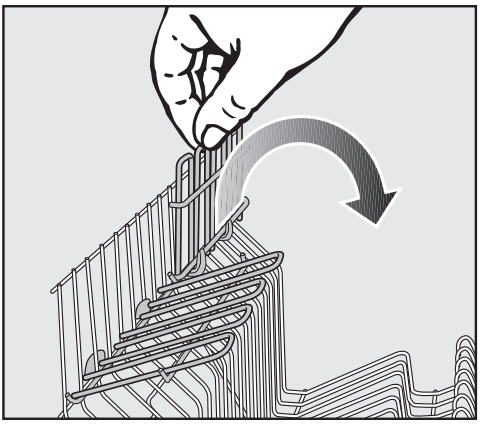
The vario insert is used for washing cups, glasses, plates, bowls and pots.



- The cup rack can be raised to make more room for tall items.
- Stem glassware e.g. wine glasses, champagne flutes and Cognac glasses can be leaned against the cup rack or suspended from it.



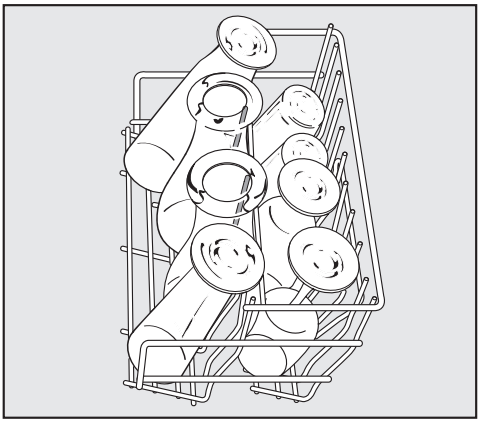
- The vario insert fits in the area marked white in the left hand side of the bottom basket.



- To lower the cup rack first raise it slightly upwards.

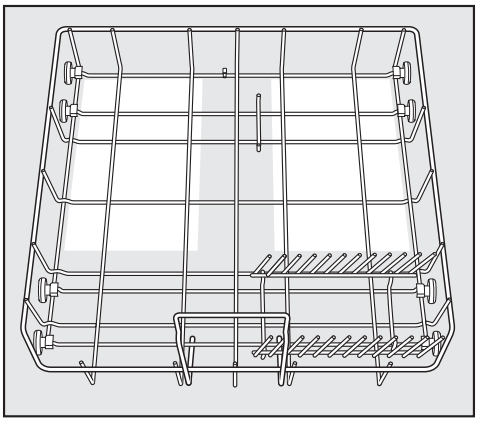
Glassware insert
(depending on model)

The glassware insert is designed for cleaning tall and long stemmed glassware.



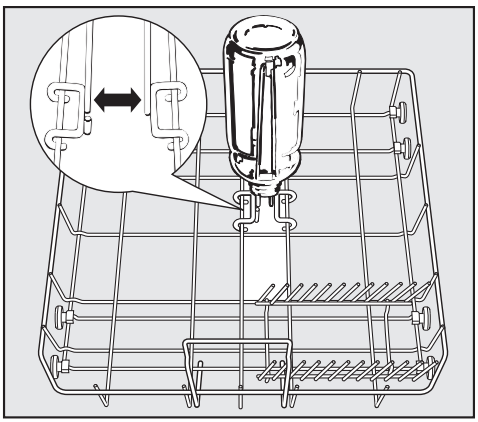
- Very tall glasses, e. g. tall beer glasses, can be held more securely by the vertical supports.

- The insert for glasses can be fitted in the left or right of the bottom basket in the areas marked white in the illustration.

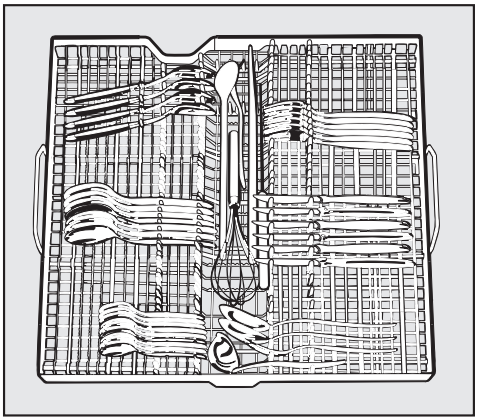


Bottle holder

The bottle holder, e.g. for milk and baby bottles, can be fitted in the lower basket in the area marked white in the illustration. However, do not place a bottle holder in the corners. Water will not be able to access the bottles properly and they will not get clean.



Cutlery



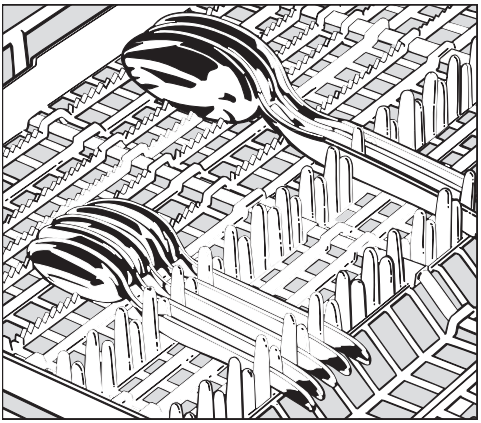
For best results cutlery should be grouped in zones, one for knives, one for forks, one for spoons, etc.This makes unloading much easier.

Place the blades of knives and the prongs of forks between the holders. Spoons, on the other hand, should be placed with the handles between the holders.

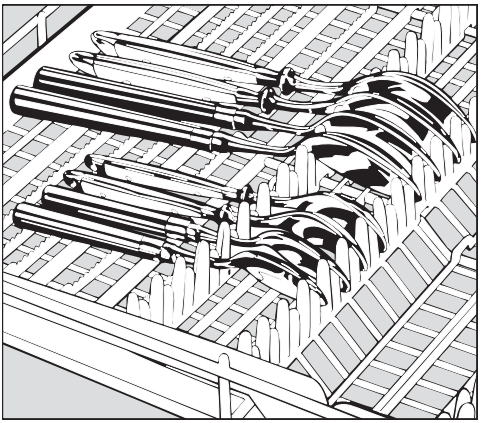
Longer items such as soup ladles, cake slices, mixing spoons and long knives should be placed lengthwise in the indentation in the middle of the cutlery tray.

The upper spray arm must not be blocked by items which are too big (e.g. cake slices).

The cutlery tray insert is removable.



Spoon heads should be placed in contact with at least one of the serrated retainers on the base of the cutlery tray to ensure that water runs off them freely.



If spoon handles do not fit between the holders then lay them the other way round making sure that the head of the spoon is in contact with the support on the bottom of the tray.

Items not suitable for dishwashers:

– Wooden cutlery and crockery or items with wooden parts: these may discolour and fade. The glue used in these items is not dishwasher-proof and wooden handles may come loose after being washed in a dishwasher.

– Craft items, antiques, valuable vases and decorative glassware are also not suitable for dishwashers.

– Plastic items which are not heat resistant. The high temperatures in the dishwasher may cause them to melt or lose shape.

– Copper, brass, tin and aluminium items may discolour or become matt.

– Colours painted over a glaze may fade after a number of washes.

– Clouding may occur on glasses after frequent washing. Do not wash glassware containing lead crystal in a dishwasher.

We recommend:

– When purchasing new crockery and cutlery, make sure they are dishwasher-proof.

– There are no standard guidelines for washing glassware. When in doubt, wash glassware by hand.

– If delicate glassware is washed in the dishwasher ensure that only very low temperatures are used (see programme chart). This will reduce the risk of clouding.

Please note

Silverware previously cleaned with a silver polish may still be damp or spotted at the end of a programme, where water has not run off smoothly. It may need rubbing dry with a soft cloth. Silver treated in a silver immersion dip is usually dry at the end of a programme but may discolour.

Silver which has been in contact with foods containing sulphur can discolour. These include egg yolk, onions, mayonnaise, mustard, pulses, fish, fish brine and marinades.

⚠ Aluminium components (e.g. a grease filter) must not be cleaned with caustic alkaline commercial or industrial cleaning agents. These may damage material, or in extreme cases, cause severe chemical reaction. See section "Adding detergent" for information on suitable detergents.

Detergent

⚠ Only use detergents formulated for domestic dishwashers. Do not use washing up liquid.

- You can use conventional powder detergent, tablets or liquid dishwasher detergent.
  Refer to the dosing instructions given by the manufacturer on the packaging.
- Put powder or liquid detergent into the dispenser compartment.
- Detergent tablets should only be put into compartment II if this is recommended by the manufacturer.
  If the manufacturer recommends placing tablets in the cutlery basket do not do so. Instead place them on the inside of the door or directly into the wash cabinet to help them dissolve properly.

Detergent manufacturers give the required amount of detergent for a particular programme on their packaging.

- Use at least 30 ml of detergent for a full load in the following programmes:
  - Sensor wash,
  - Economy,
  - Universal,
  - Intensive.

  If the manufacturer recommends a larger amount of detergent, use the amount recommended.

Failure to dispense the recommended amount of detergent may impair cleaning results.

If you are using 2 in 1 or 3 in 1 combination tablets, please continue to replenish the salt and rinse aid reservoirs as described in this booklet. Otherwise the cleaning and drying performance of the machine may deteriorate over time.

Adding detergent

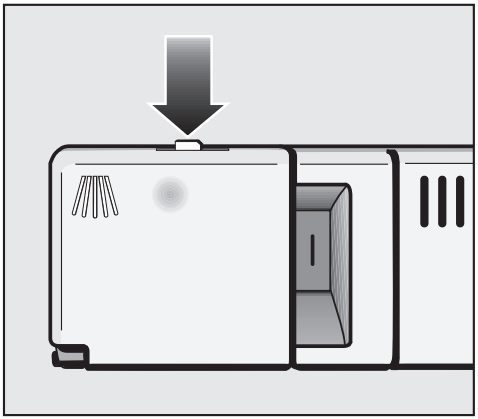
⚠ Avoid inhalation of powder detergents and do not ingest dishwasher detergent! Dishwasher detergents contain irritant or corrosive ingredients. They can cause burning in the nose, mouth and throat if swallowed, or inhibit breathing. Consult a doctor immediately if detergent has been swallowed or inhaled.
Keep detergent and other household agents out of the reach of children at all times. Keep children away from the dishwasher when the door is open. There could still be detergent residues in the cabinet. To avoid the danger of children coming into contact with dishwasher detergent only add detergent just before starting the programme and close the door.

It is essential to follow the instructions given in the programme chart at the end of the operating instructions.

For information

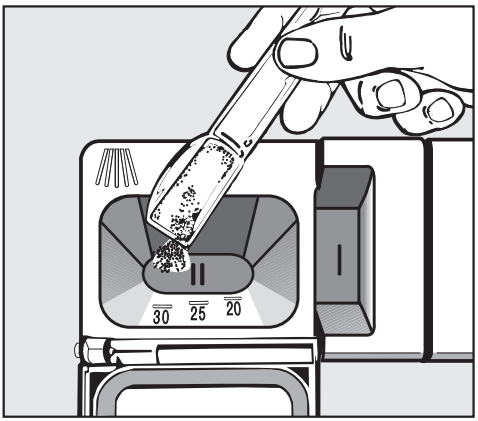
Compartment I holds max. 20 ml, Compartment II holds max. 70 ml.

There are markings in compartment II to assist with dispensing. The marks indicate a level of approx. 20, 25, 30 ml when the door is open in a horizontal position.



- Press the opening catch on the detergent dispenser. The flap will spring open.

The flap is always open at the end of a programme.



- Add the required amount of detergent and close the flap.
- Ensure that the detergent package is properly sealed after use. Otherwise the detergent can lose its effectiveness.

Programme selection

Choose your programme according to the type of load and how dirty it is.

In most cases this will be the Sensor wash or the Sensor wash gentle programme.

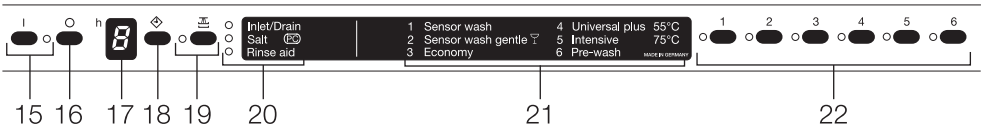
The Sensor wash programme is ideally suited to everyday mixed loads with varying degrees of soiling.
The Sensor wash gentle programme should be used for lightly soiled heat-sensitive crockery and for glassware.

In these programmes sensors monitor the soiling levels from the crockery and adjust the programme sequence accordingly. Water and energy consumption, temperatures and programme durations can therefore vary.

Additional programmes are also available.

They are all described in the **programme chart** at the end of this booklet, together with information on when to use them and their consumption data.

The additional function "Top Solo" can be selected with each programme. See "Additional functions/Top Solo" for more details.



Switching on

- Open the stopcock, if it is closed.
- Open the door.
- Make sure the spray arms are not obstructed.
- Press the "On" (15) button.

The "On" indicator light (15) comes on.

Starting a programme

- When selecting a programme, refer to the programme chart at the end of the operating instructions.
- Press button (22) for the programme you want.

The indicator light next to the selected programme will come on.

The additonal functions "Delay start" or "Top Solo" can now be selected if wished (see "Additional functions ").

- Close the door.

The in operation control light will come on.

The programme cycle begins.

Do not finish a programme prematurely. Important programme stages (e. g. reactivating the water softener) could be omitted.

At the end of a programme

At the end of a programme the in operation control light will be visible flashing with the door shut.

It will go out one hour after the end of the programme.

The in operation light will go out if the door is opened.

Switching off

At the end of a programme:

- Open the door.

The in operation and programme button indicator lights go out.

- Press the "Off" button (16).

The "On" indicator light (15) goes out.

The dishwasher continues to use electricity until switched off using the "Off" button.

The dishwasher can now be unloaded (see "Unloading the dishwasher").

⚠ To prevent the risk of steam damage to the worktop edging above the dishwasher it is advisable to leave the door closed until you are ready to unload the crockery. Alternatively you can open the door fully until the crockery is cool enough to unload. Do not leave the door only partially open.

If the dishwasher is not to be used for a longer period of time, e. g. whilst on holiday, the stopcock should be turned off.

Changing a programme

Important:
If the detergent dispenser flap has already opened, do not change the programme.

A change can be made to the programme selected before the door is closed as follows:

- Press the button for the programme you wish to run.
- Close the door.

The programme cycle begins.

If a programme has already begun, change the programme as follows:

- Open the door.
- Press the "Off" button (16).
- Press the "On" (15) button.
- Press the button for the programme you wish to run.
- Close the door.

The in operation control light will come on.

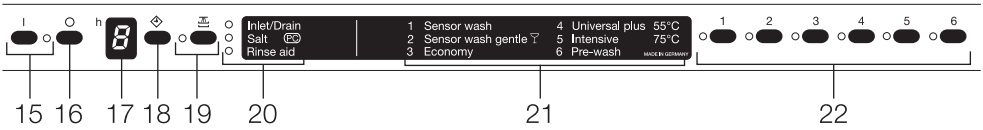
The programme cycle begins.

Interrupting a programme

A programme is interrupted as soon as the door is opened.
If the door is closed again, the programme will continue from the point it was at before the door was opened.

⚠ Water in the dishwasher may be hot. Danger of scalding! If you have to open the door do so very carefully.
Before closing the door again, leave it ajar for approx. 20 secs. This will enable the temperature in the wash cabinet to settle. Close the door firmly making sure that it clicks into place.

Additional functions



"Top Solo" (⊟)

The "Top Solo" additional function is recommended when there is only a small amount of crockery and cutlery to clean. With this function the majority of the water is directed to the top and middle spray arms in the dishwasher. This means that the water jets are aimed at items in the upper basket and the cutlery tray if the dishwasher has one.

As the middle spray arm also directs water downwards, lightly soiled plates or platters can be placed in the bottom basket, and cutlery may be placed in the cutlery basket if there are large spaces between items. Do not place dishes, bowls or other hollow containers in the bottom basket.

Because smaller amounts of crockery are being washed the amount of detergent recommended by the manufacturer can be reduced to approx. 2/3 of the total amount for the full load. Make sure, however, when reducing the amount dispensed that the cleaning result is not affected.

Using "Top Solo" will also save water and energy.
For example, if using this function with the "Economy" programme only 11 litres of water and approx. 0.75 kWh of electricity are used.

The "Top Solo" function can be selected with all programmes.

■ Press the "On" (15) button.

The "On" indicator light (15) comes on.

■ Press the button for the programme you wish to run.

The indicator light next to the selected programme will come on.

■ Press the "Top Solo" ⊟ (19) button.

The "Top Solo" ⊟ (19) indicator light comes on.

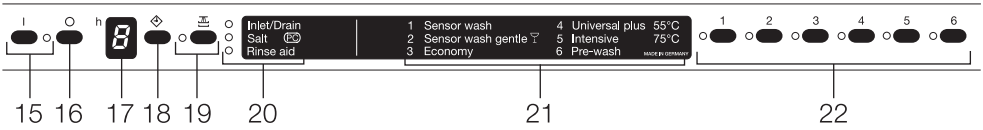
The "Delay Start" function can now be selected (see next page).

■ Close the door.

The in operation control light will come on.

The programme cycle begins.

The additional function is automatically deleted from memory at the end of the programme cycle.



Delay start (⏲)

The starting time of a programme can be delayed, e.g. to benefit from economy rates of electricity. A delay start time of between 1 and 9 hours can be selected.

The delay start time is set in one hour stages.

■ Press the "On" (15) button.

The "On" indicator light (15) comes on.

■ Press the button for the programme you wish to run.

The indicator light next to the selected programme button comes on.

■ Press the ⏲ (18) button.

A *1* appears in the delay start display (17). A delay of one hour has been set.

■ Press button ⏲ (18) repeatedly until the required delay start period shows up in the display (17).

The delay start time counts up to 9 in one hour stages. Pressing the "Delay start" button ⏲ (18) again switches the option off.
If the "Delay start" button is held in the display counts up automatically.

The "Top Solo" function can now be selected (see previous page).

■ Close the door.

At the end of the delay period the selected programme begins automatically.

⚠ When using the "Delay Start" function, make sure that the compartment is dry before adding detergent. Wipe dry with a cloth if necessary. Do not use liquid detergent when selecting "Delay Start". It may run out of the dispenser before the programme starts.

Starting a programme before the delay start period has elapsed:

A programme can be started before the delay start period has elapsed. Proceed as follows:

- Open the door.
- Press the "Off" button (16).
- Press the "On" (15) button.
- Press the button for the programme you wish to run.

If the "Top Solo" function had been selected, then you will need to select it again.

- Close the door.

The in operation control light will come on.

The programme cycle begins.

Unloading the dishwasher

- Dishes tend to break and chip more easily when they are hot.
  Allow the dishes to cool until they are comfortable enough to handle before unloading them.
- If you open the door fully after switching off, the dishes will cool much faster.
- First unload the lower basket, then the upper basket and cutlery tray. This will prevent water drops from the upper basket and cutlery tray from falling onto the dishes in the lower basket.

Check your dishwasher regularly (approx. every 4 - 6 months). This way faults and problems can be avoided.

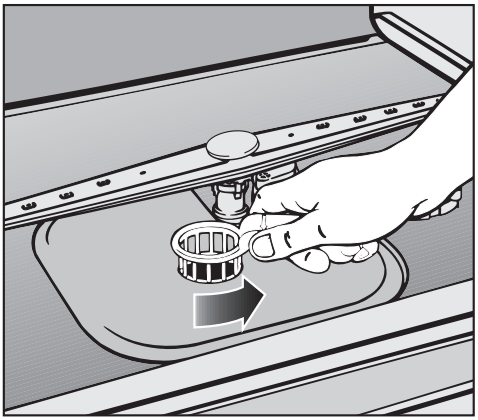
Cleaning the filters in the wash cabinet

The filter combination in the base of the wash cabinet retains coarse soil from the suds solution, preventing it accessing the circulation system and re-entering the cabinet through the spray arms.

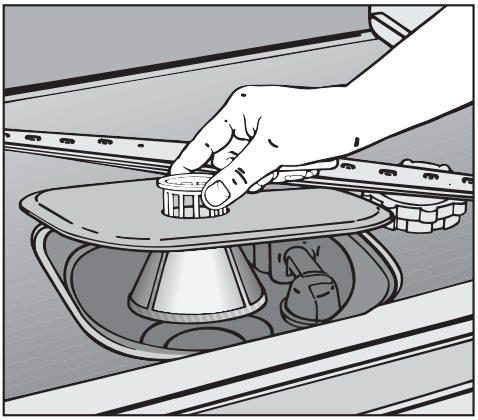
⚠ The dishwasher must not be used without all the filters in place.

Collection of coarse soil may cause the filters to clog.
Check the filter combination regularly (every 4 - 6 months) and clean if necessary.

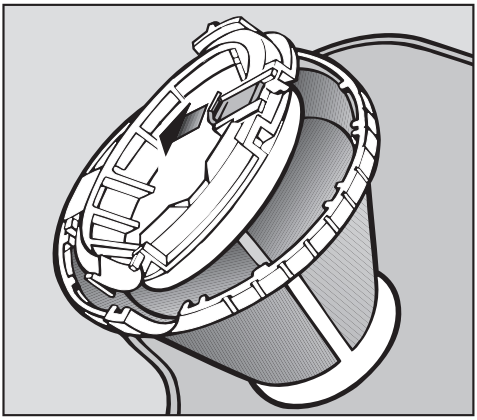
- Switch the dishwasher off beforehand.

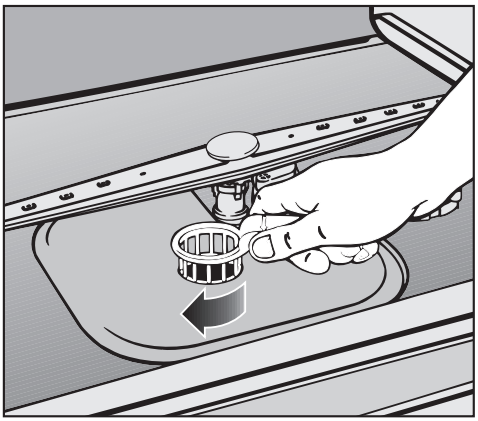


- Turn the handle anti-clockwise to release the filter combination.



- Lift the filter combination out of the dishwasher. Remove any coarse particles and rinse the filter under running water. Use a nylon brush if necessary.





To clean the underside of the filter, the flap must be opened:

- Pull back the yellow clip to do this.
- Rinse all parts under running water, using a nylon brush if necessary.
- Then close the flap so that the clip engages. Important: After cleaning make sure that the clip has properly engaged.
- Replace the filter combination so that it lies flat in the base of the wash cabinet.
- Secure the filter by turning the handle in a clockwise direction.

⚠ Take care when you are fitting the filter combination that it is secured in position correctly. Otherwise coarse soil could get into the circulation system and cause a blockage.

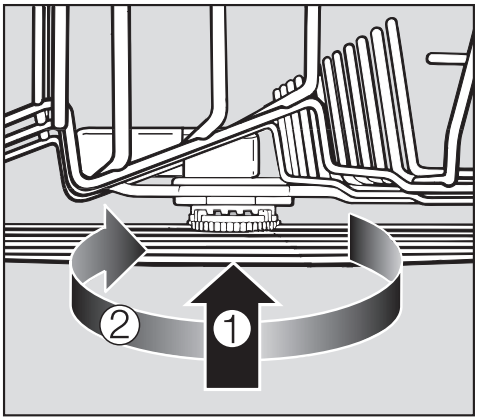
Cleaning the spray arms

Particles of food can get stuck in the spray arm jets and bearings. The spray arms should therefore be inspected and cleaned regularly (approx. every 4 - 6 months).

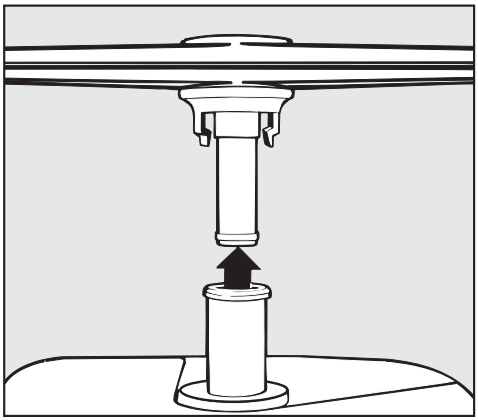
- Switch the dishwasher off beforehand.

Remove the spray arms as follows:

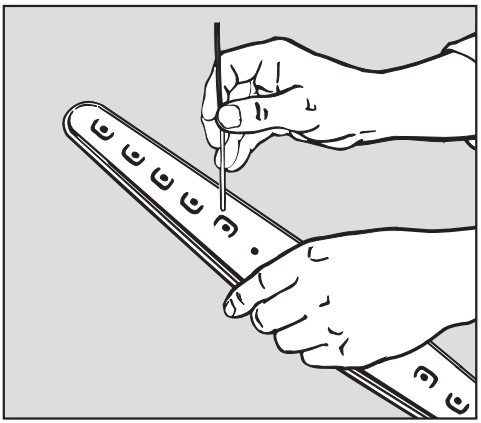
- Take out the cutlery tray.
- Press the top spray arm upwards to engage the inner ratchet. Then unscrew the spray arm.



- Lift up the middle spray arm ① to engage the ratchet. Then unscrew the spray arm ②.
- Remove the lower basket.



- Pull the lower spray arm firmly upwards to remove it.



- Use a pointed object to push food particles into the spray arm jets.
- Rinse thoroughly under running water.
- Replace the spray arms and check that they rotate freely.

Cleaning the wash cabinet

The wash cabinet is largely self-cleaning, provided that the correct amount of detergent is always used.

If however there are limescale or grease deposits in the cabinet these can be removed with a proprietary dishwasher cleaner.

Cleaning the door and the door seal

- Wipe the door seals regularly with a damp cloth to remove food deposits.
- When the dishwasher is being loaded food and drink residue may drip onto the sides of the dishwasher door. These surfaces are outside the wash cabinet and are not accessed by water from the spray arms. Any soiling should be wiped off these surfaces before the door is closed.

Cleaning the reflector panel

The reflector panel for the in operation control light is situated in the coverplate underneath the worktop.

It can be taken out of its plastic holder to be cleaned.

- Open the door and carefully remove the reflector panel from the holder.
- The reflector panel and its plastic holder should only be wiped with a damp cloth or suitable cleaning agent designed for use on plastic.

⚠ Do not use abrasive cleaning agents, glass cleaning agents or all-purpose cleaners. Because of their chemical composition they could cause serious damage to plastic surfaces.

Cleaning the control panel

- This should only be wiped with a damp cloth.

⚠ Do not use abrasive cleaning agents, glass cleaning agents or all-purpose cleaners. Because of their chemical composition they could cause serious damage the surface material.

Cleaning the door panel

- Clean using a suitable cleaning agent for the type of material the front is made of.

Wood door front panels:

- Door fronts made from wood should only be cleaned using a damp chamois leather and then dried with a soft cloth.

Plastic panels:

- This type of panel should only be wiped with a damp cloth or suitable cleaning agent designed for use on plastic.

⚠ Do not use abrasive cleaning agents, glass cleaning agents or all-purpose cleaners. Because of their chemical composition they could cause serious damage to plastic surfaces.

Stainless steel panels:

- Clean using a damp cloth and a little washing-up liquid or with a proprietary non-abrasive cleaning agent designed specifically for use on stainless steel. To help prevent re-soiling (finger prints etc.), a proprietary conditioning agent for stainless steel can also be used. Apply sparingly with an even pressure following the direction of the grain.

⚠ Do not use any cleaning agents containing ammonia or thinners. These would damage the surface structure.

E-Cloth:
A microfibre "E-Cloth" is available from the Miele UK Spare Parts Department, Part number 98013530, which is suitable for cleaning surfaces such as stainless steel, glass, plastic and chrome without the use of chemicals.

If you are unsure about a particular product or need further advice please contact your nearest Miele Sales office. See back page for address.

Problem solving guide

With the aid of the following guide, minor problems can be easily corrected without calling in a Miele service technician, saving you both time and money.

You should, however, note the following:

⚠ Repairs should only be carried out by a suitably qualified and trained person in accordance with local and national safety regulations. Unauthorised or incorrect repairs could cause personal injury or damage the appliance.

Problem	Possible cause	Remedy
The machine does not start.	The door is not properly closed.	Close the door firmly.
	The appliance is not plugged in.	Insert the plug.
	The fuse is defective or has tripped.	Replace the fuse (see data plate for minimum fuse rating).
	The machine is not switched on.	Press the "On" button, and select a programme.
	A programme has not been selected.	Press the button for the programme you want to select.
The dishwasher stops during a programme.	The fuse is defective or has tripped.	Replace the fuse (see data plate for minimum fuse rating).

Problem	Possible cause	Remedy
The dishwasher stops running shortly after starting a programme, the in operation control light is flashing rapidly.		Before rectifying the problem you must: Switch the dishwasher off.
	Water inlet fault. The indicator light "Inlet/Drain", seen when the door is open, lights up and flashes alternately.	– Open the stopcock fully. – Check the water inlet filter and clean if necessary, see “Cleaning the water inlet filter”. The Waterproof system has reacted. – Call the Miele Service Department.
The in operation control light does not come on after starting a programme.	The reflector panel was not correctly fitted.	Re-fit the reflector panel. See relevant section in the Installation Booklet.

Problem solving guide

Problem	Possible cause	Remedy
The dishwasher stops running, the in operation control light is flashing rapidly.		Before rectifying the problem you must: Switch the dishwasher off.
	Water inlet fault. The indicator light "Inlet/Drain", seen when the door is open, is flashing.	– Open the stopcock fully. – Check the water inlet filter and clean if necessary, see “Cleaning the water inlet filter”. – The water pressure at the intake is lower than 0.3 bar. Seek professional advice.
	There is a fault with the drainage system. Water remains in the wash cabinet at the end of a programme. The indicator light "Inlet/Drain", seen when the door is open, is flashing.	– Clean the filter combination, see “Cleaning and Care”. – Clean the drain pump, see “Cleaning the drain pump and non-return valve”. – Clean the non-return valve, see “Cleaning the drain pump and non-return valve”. – Remove any kink in the drain hose.

Problem	Possible cause	Remedy
At the end of a programme the in operation control light is flashing rapidly; the indicator lights next to programme buttons 1 to 5 are flashing when the door is open.	There may be a technical fault.	– Switch the machine off. Run another programme. If the indicator lights flash again at the end of this programme, there is a technical fault. – Call the Miele Service Department.
Knocking noise in the wash cabinet.	The spray arm is knocking against an item in the basket.	Interrupt the programme, rearrange items which are obstructing the spray arm.
Rattling noise.	Items of crockery are insecure in the wash cabinet.	Interrupt the programme, rearrange the items of crockery.
Knocking noise in the water pipes.	This may be caused by the on-site installation or the cross-section of the piping.	This has no influence on dishwasher function. If in doubt contact a suitably qualified plumber.

Problem solving guide

Problem	Possible cause	Remedy
The dishes are not clean.	The dishes were not loaded correctly. Dishes were placed inside other pieces, water could not access all surfaces.	See notes in "Loading the dishwasher".
	The outlet of the water intake pipe for the middle spray arm was covered. An insufficient amount of water flowed into the middle spray arm.	Make sure that dishes placed in the rear section of the upper basket do not cover the opening.
	The programme was not powerful enough.	Select a more intensive programme, see "Programme chart" at the end of these operating instructions.
	Not enough detergent was dispensed.	Use more detergent, see “Operating the dishwasher”.
	Tall items are blocking the path of the spray arms.	Rearrange the items so that the spray arms can rotate freely.
	The spray arm jets are blocked.	Clean the spray arm jets, see “Cleaning and Care”.
	The filter combination in the base of the wash cabinet is not clean or is not correctly fitted. This may cause the spray arm jets to get blocked.	Clean and/or replace the filter combination correctly. Clean the spray arm jets, see “Cleaning and Care”.
	The non-return valve is open and blocked. Dirty water has flowed back into the wash cabinet.	Clean the drain pump and the non-return valve, see “Cleaning the drain pump and non-return valve”.

Problem	Possible cause	Remedy
Dishes, cutlery and glasses are not dry or are flecked.	The rinse aid amount may be insufficient or the rinse aid reservoir empty.	Increase the dosage or replenish the reservoir, see "Before using for the first time".
	Crockery was taken out of the cabinet too soon.	Leave it in for longer, see “Operating the dishwasher”.
White residue is visible on cutlery and crockery, clouding occurs on glassware; film can be wiped off.	Not enough rinse aid was used.	Increase the dosage, see "Before using for the first time".
	There is no salt in the salt reservoir.	Add dishwasher reactivation salt, see "Before using for the first time".
	The salt reservoir cap has not been screwed on correctly.	Replace it making sure it screws back on correctly.
	Combination dishwasher detergent tablets containing rinse aid and/or salt may have been used. Long term use of these can impair the softener unit if you do not replenish salt and rinse aid as described in these instructions.	Use a standard liquid, tablet or powder detergent and refill the salt and rinse aid reservoirs in the dishwasher!
Smearing appears on glassware and cutlery, there is a bluish sheen on the surface of glassware; film can be wiped off.	The rinse aid dosage is set too high.	Reduce the dosage, see "Before using for the first time".

Problem solving guide

Problem	Possible cause	Remedy
Glassware is dull and discoloured; film cannot be wiped off.	Glassware is not dishwasherproof. The surfaces are affected.	There is no remedy. Purchase glassware which is dishwasher-proof.
Tea or lipstick stains have not been completely removed.	The wash temperature of the selected programme was too low.	Select a programme with a higher wash temperature.
	The bleaching effect of the detergent used is too low.	Use a different type of detergent.
Plastic items are discoloured.	Natural dyes e.g. from carrots, tomatoes or ketchup may be the cause. The amount of detergent used or its bleaching effect was not sufficient to deal with natural dyes.	Use more detergent, see "Operating the dishwasher". Discolouration is irreversible.
There are rust stains on cutlery.	The salt reservoir cap has not been screwed on correctly.	Replace it making sure it screws back on correctly.
	The affected items are not corrosion resistant.	There is no remedy. Purchase cutlery which is dishwasher-proof.
	The "Pre-wash" programme was not run after dishwasher salt was added. Traces of salt have got into the wash cycle.	Always run the "Pre-wash" programme after adding dishwasher salt.

Problem	Possible cause	Remedy
The detergent lid cannot be closed properly.	Clogged detergent residue is blocking the catch.	Remove the residue.
Detergent residue is left in the dispenser at the end of a programme.	The dispenser was still damp when detergent was added.	Make sure the dispenser is dry before adding detergent.
Water remains in the wash cabinet at the end of a programme.		Before rectifying the problem you must: Switch the dishwasher off.
	The filter combination in the wash cabinet is clogged.	Clean the filter combination, see “Cleaning and Care”.
	The drain pump or non-return valve may be blocked.	Clean the drain pump and the non-return valve, see “Cleaning the drain pump and non-return valve”.
	The drain hose is kinked.	Remove any kink in the drain hose.

Cleaning the water inlet filter

A filter is incorporated in the screw connection of the valve on the water inlet hose. The filter must be cleaned when dirty, otherwise insufficient water flows into the wash cabinet.

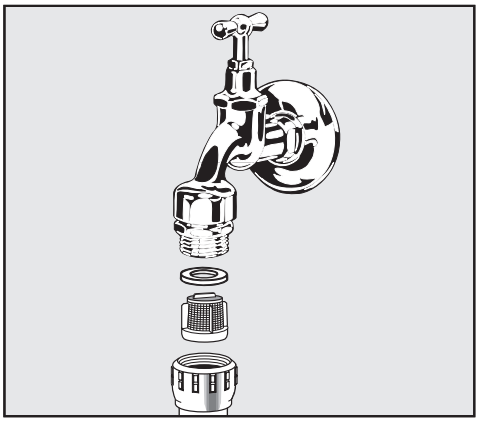
⚠ The plastic housing of the water connection contains an electrical component. It must not be dipped in water.

Recommendation

If the mains water contains a large number of insoluble substances, we recommend fitting a large-area filter in the connection between the stopcock and the water inlet hose threaded union. This filter is available from the Miele Spares Dept.

Cleaning the filter:

- Disconnect the dishwasher from the mains supply (switch off at the mains socket, pull out the plug , switch off the appropriate circuit at the fuse box or withdraw the mains fuse).
- Turn off the stopcock.
- Unscrew the inlet hose.

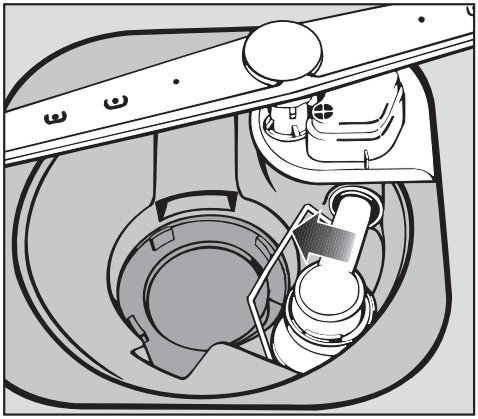


- Carefully remove the rubber seal.
- Withdraw the filter using pointed pliers and rinse clean under running water.
- Replace the filter and seal, making sure they are sitting correctly.
- Reconnect the inlet hose to the stopcock, making sure it goes on correctly and is not cross-threaded.
- Turn on the stopcock gradually to test for leaks. If there is a leak, the inlet hose might not be on securely, or it may have been screwed on at an angle. Unscrew and reconnect the water inlet valve correctly.

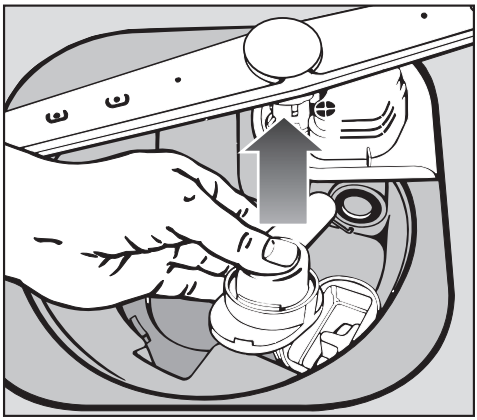
Cleaning the drain pump and non-return valve

If the water has not been pumped away at the end of a programme the drain pump or the non-return valve might be blocked. They are, however, easy to clean. Watch out for glass or bone splinters which could cause injury.

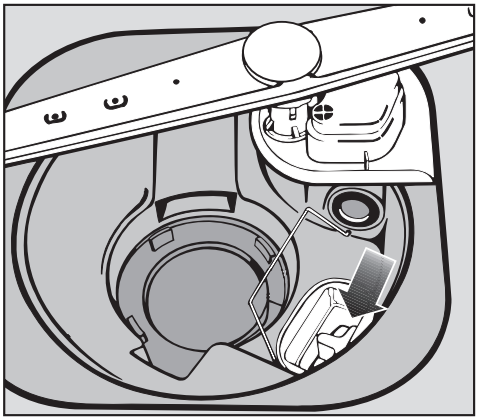
- Take the filter combination out of the wash cabinet (see "Cleaning and care", "Cleaning the filters in the wash cabinet").
- Scoop the water out of the cabinet using a suitable container.



- Raise the locking clamp for the non-return valve.



- Lift up the non-return valve and rinse well under running water.
- Remove all foreign objects from the non-return valve.



The drain pump is situated under the non-return valve (see arrow).

- Remove all foreign objects from the drain pump (watch out for glass or bone splinters which are particularly difficult to detect and could cause injury). Turn the drain pump impeller by hand to check that there are no more obstructions.
- Carefully replace the non-return valve and secure it with the locking clamp.

Should you still have any difficulties, please contact:

– Your Miele Dealer

or

– The Miele Service Department (see back cover for address).

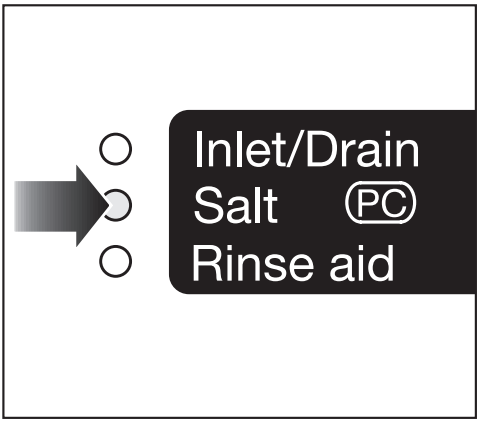
■ Please quote the model type and number of your appliance.

This information is given on the data plate at the side of the door.

Please note that telephone calls may be monitored and recorded to improve our service.

Programme update function - PC

The programme update function (PC = Programme correction) is designed to enable a service technician to update your machine's electronics in keeping with advances in technology.



The indicator or check light marked "Salt PC" is used as the interface for this programming.

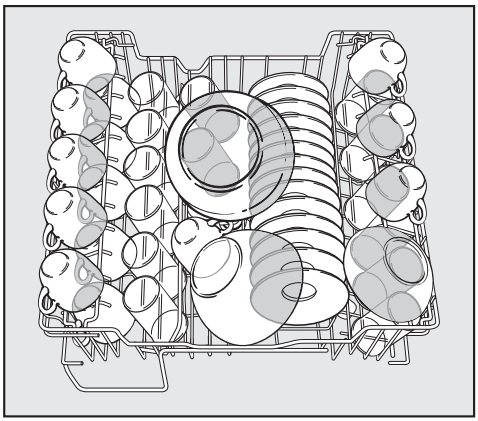
Information regarding programme updates will be made known by the Miele Company as and when such developments become available.

Optional accessories

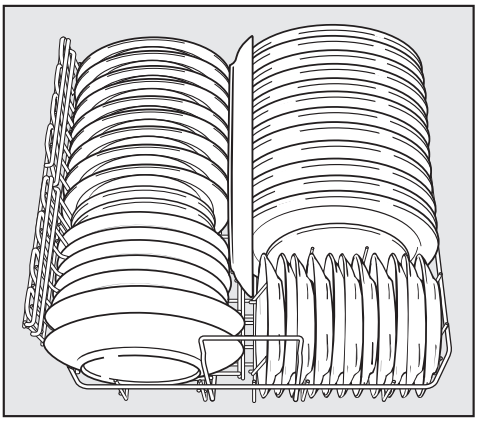
To make the most of your dishwasher

If you would like …	you will need to order …
... to wash bottles, e. g. milk or baby bottles	... a bottle holder
... to wash long-stemmed glassware	... a glassware insert for the upper basket
... to wash large plates	... an insert for plates up to 32 cm diameter
... to wash additional items of cutlery	... a small cutlery basket for the lower basket

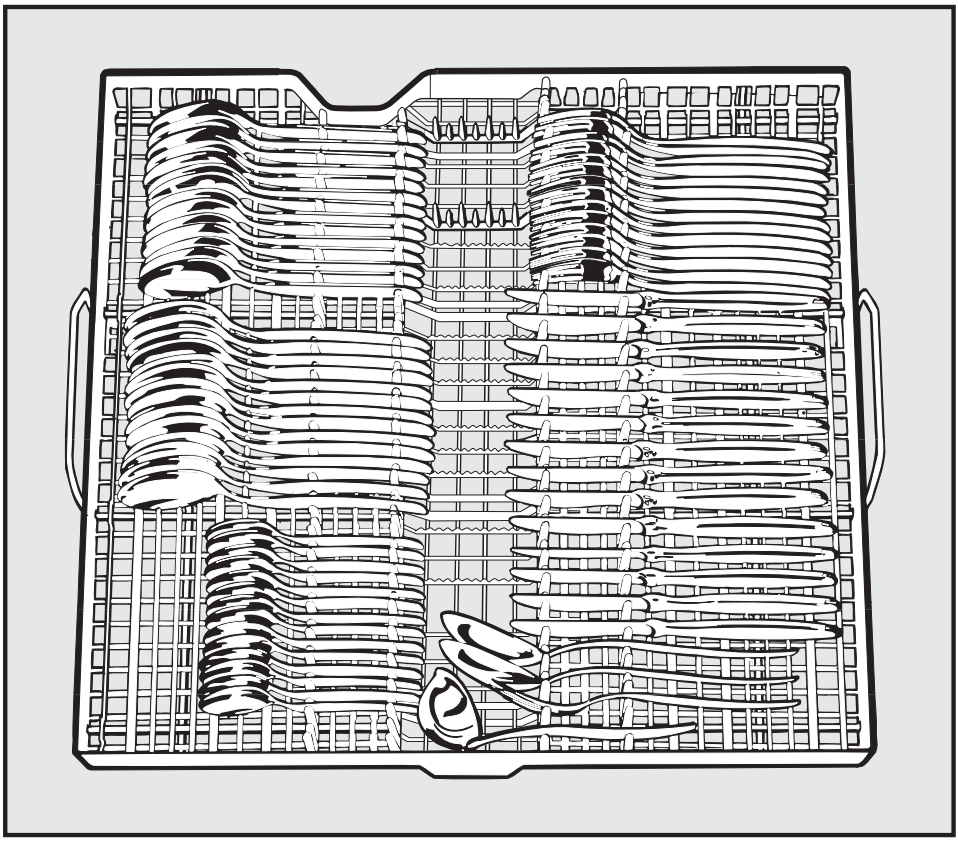
Test standard:	EN 50242 / IEC 704
Standard programme for comparison tests (energy label):	Economy
Note:	The **Universal Plus 55 °** programme for normal soiling has increased wash and drying results with shorter running times and increased energy requirements.
Amount washed:	14 place settings
Amount of detergent:	30 g only in compartment II.
Rinse aid dispensing:	Setting 3 (approx. 3 ml)



Upper basket



Lower basket



Cutlery tray

Should you ever need to move the dishwasher, e.g. when moving house, note the following:

– Empty the dishwasher,

– Secure any loose parts, e. g. hoses, mains cable, cutlery basket, lower basket

– Transport the dishwasher in the upright position.
If unavoidable, it may be transported on its back.
Do not transport it on its side or on the door as residual water still in the appliance will leak out of it.
This residual water could get into the electronic unit and cause a fault.

Programme chart

Programme	When to use	Detergent
		Compartment II (Wash cycle)
Sensor wash [2]	Sensor controlled programme for **normally soiled** crockery	100 %
Sensor wash gentle [2]	Sensor controlled gentle programme for **lightly soiled and temperature sensitive** crockery and glassware	50 %
Economy [1)3)]	for **normal** everyday loads, energy saving programme which uses a low temperature and long programme duration	100 %
Universal Plus 55 °	with a longer wash time for **normally soiled** crockery with **dried on** soiling	100 %
Intensive 75 °	for **normally soiled pots, pans, dishes etc** with **dried on** soiling; for very heavy soiling, add 20% more detergent to compartment I	100 %
Pre-wash	for rinsing crockery to avoid smells, if a complete cycle is not yet needed. This programme should also be used for flushing out salt residues after replenishing the salt reservoir.	

1) Standard programme for energy labelling.
2) The consumption data and programme duration figures quoted may vary during the Sensor wash programmes depending on the soiling level of the load being washed.
3) This programme has a very long and quiet drying phase.

Programme sequence					Consumption			Duration	
					Energy kWh		Water	h:min	
Pre-wash 1 2	Main wash	Interim rinse 1 2	Final rinse	Drying	Cold water connec-tion (15 °C)	Hot water con-nection (55 °C)	Litres	Cold water connec-tion (15 °C)	Hot water connec-tion (55 °C)
if required	X 50 °-60 °	if required	X 65 °	X	1.2-1.5	0.6-0.8	13-22	1:27-1:51	1:06-1:13
if required	X 42 °-52 °	if required	X 55 °	X	0.9-1.1	0.5-0.6	13-22	1:16-1:26	0:58-1:08
	X 45 °	X	X 55 °	X	1.08	0.7	15	2:58	2:43
X	X 55 °	X	X 65 °	X	1.35	0.8	17	2:02	1:49
X	X 75 °	X	X 65 °	X	1.8	1.3	17	2:24	2:02
X					0.06	0.06	5	0:11	0:11

When washing a full load in the Sensor wash Programme, the Economy Programme, the Universal Plus Programme, and the Intensive Programme at least 30 ml of detergent are required. If the detergent manufacturer recommends using more than this you should dispense the amount they suggest.
For the Intensive Programme add an additional 5-7 ml to compartment I.

For the additional function **"Top Solo"** add detergent according to the soiling level of the crockery **to compartment II only** (approx. 2/3 of the total amount required for a full load).

Values quoted are in accordance with EN 50242. Results in the home may differ.

United Kingdom:
Miele Co. Ltd.
Fairacres, Marcham Road
Abingdon, Oxon, OX14 1TW
tel. Abingdon (01235) 554455
Service Office: (01235) 554466
fax (01235) 554477
Internet: www.miele.co.uk

Ireland:
Miele Ireland Ltd.
Broomhill Road, Tallaght, Dublin 24
Tel: (01) 46 10 710, Fax: (01) 46 10 797
Email: info@miele.ie
Internet: http://www.miele.ie

Australia:
Miele Australia Pty. Ltd.
A.C.N. 005635398
1 Gilbert Park Drive
Knoxfield, VIC 3180
Telephone: (03) 9764 7100
Fax: (03) 9764 7129
Internet: www.miele.com.au

Distributor New Zealand:
Steelfort Engineering Company. Ltd.
500 Rangitikei Street
Palmerston North, Priv. Bag 11045, NZ
Telephone: (06) 350 1350
Fax: (06) 356 1507

South Africa:
Miele (Pty) Ltd
304 Tungsten Road
Strijdom Park 2194
P.O.Box 1654, Randburg 2125
Tel. (011) 793-7452
Telefax (011) 793-7447
E-mail: info@miele.co.za
Internet: www.miele.co.za

Singapore:
Miele Southeast Asia
Miele Pte. Ltd.
163 Penang Road
04 - 02/03 Winsland House II
Singapore 238463
Tel : +65-67351191
Fax: +65-67351161
Email: mielesea@miele.com.sg

Hong Kong:
Miele (Hong Kong) Limited
AIA Plaza, Room 401, 4th Floor
18 Hysan Avenue
Causeway Bay
Hong Kong
Tel.: (852) 2610 1331
Fax: (852) 2610 1013
E-mail: mielehk@netvigator.com

Alteration rights reserved / G863-3 / 4003

M.-Nr. 06 077 760 / V00

This paper consists of cellulose which has been bleached without the use of chlorine.