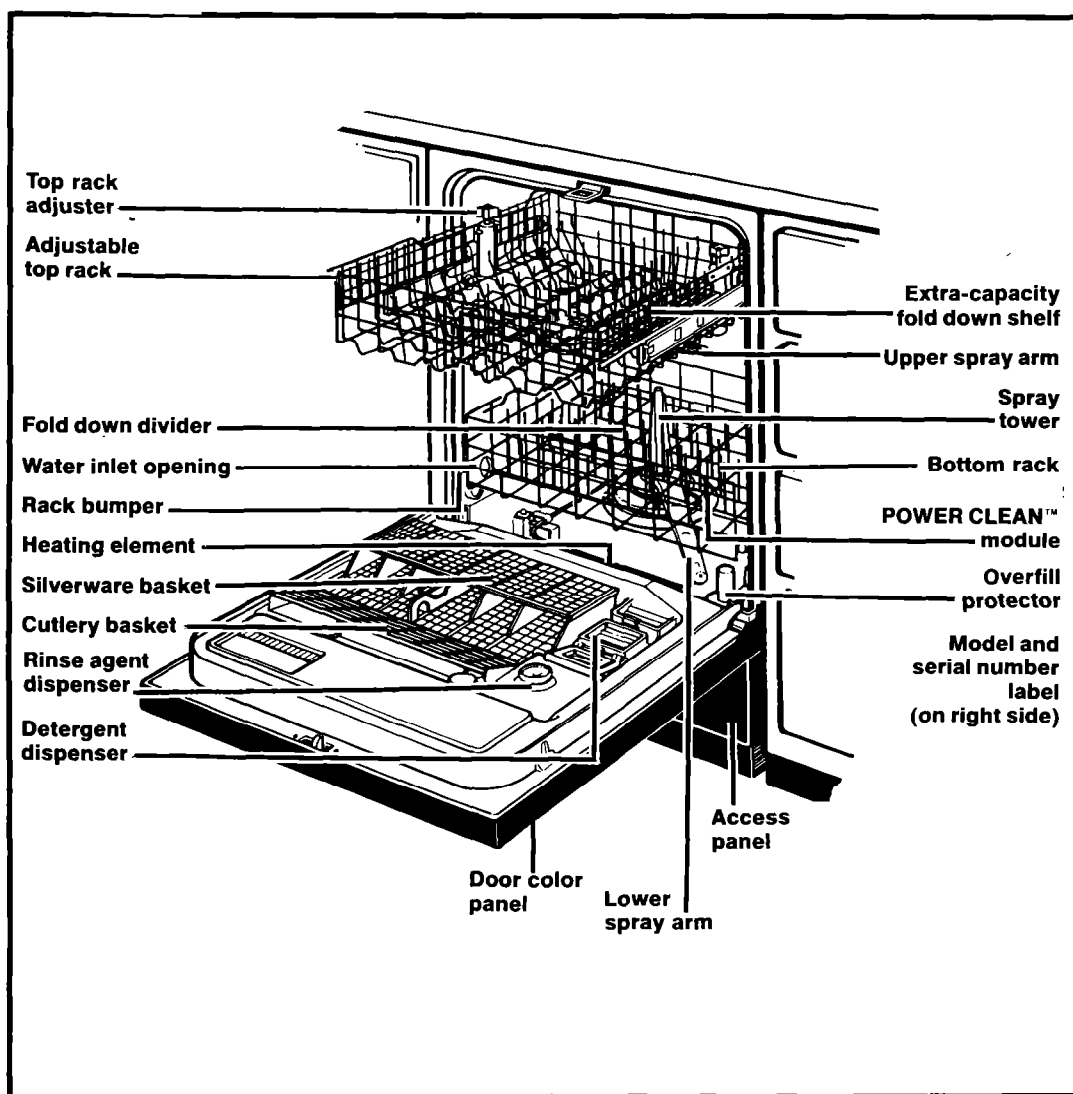




# Use & Care Guide



9700 SERIES DISHWASHERS

9/92

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## It is your responsibility to be sure your dishwasher:

- Is installed by a qualified installer.
- Has been installed where it is protected from the elements.
- Has been installed on a floor strong enough to support its weight.
- Has been properly connected to electricity, water and drain.\*
- Has been properly electrically grounded.\*
- Has had all hang tags and temporary labels removed.
- Is not used by children or anyone unable to operate it properly.
- Is properly maintained.

\*See Installation Instructions for complete information.

## Thank you for buying a Whirlpool appliance. Please complete and mail the Owner Registration Card provided with this product.

Then complete the form below. Have this information ready if you need service or call with a question.

- Copy model and serial numbers from label (see diagram on front cover) and purchase date from sales slip.
- Keep this book and sales slip together in a handy place.

---

**Model Number**

---

**Serial Number**

---

**Purchase Date**

---

**Service Company Phone Number**

If you need service, first see the "Service or Assistance" section of this book. After checking "Service or Assistance," additional help can be found by calling our Consumer Assistance Center telephone number, **1-800-253-1301**, from anywhere in the U.S.

# Important Safety Instructions

## ⚠ WARNING

To reduce the risk of fire, electrical shock, or injury when using your dishwasher, follow basic precautions including the following:

- **Read all instructions before using the dishwasher.**
- Properly connect to electricity and water.
- **DISHWASHER MUST BE ELECTRICALLY GROUNDED.** Read the Installation Instructions for details.
- Be sure your dishwasher is installed on a level floor that will hold the weight, and in an area suitable for its size and use.
- When discarding an old dishwasher, always remove the door to prevent accidental entrapment or suffocation.
- **REMEMBER**, use your dishwasher only for the job it was designed to do.
- Store dishwasher detergent in a cool, dry place WHERE CHILDREN CAN'T REACH IT.
- Use **ONLY** detergents and rinse agents recommended for use in a dishwasher.
- Locate sharp items and knives so that they are not likely to damage door seal or cut the user.
- **DO NOT** let children play in or on the dishwasher.
- **DO NOT** reach into the area below the bottom rack until the heating element has cooled for at least 20 minutes.
- **DO NOT** wash plastic items unless marked "Dishwasher Safe" or the equivalent. If not marked, check manufacturer's recommendations.
- **DO NOT** use your dishwasher unless all enclosure panels are properly in place.
- **DO NOT** sit on, stand on or abuse the dishwasher door or dish racks.
- **DO NOT** tamper with controls.
- **If hot water has not been used recently (usually two weeks or longer), hydrogen gases may build up in the water heater and the hot water pipes. HYDROGEN GAS IS EXPLOSIVE. To prevent injury or damage, before using your dishwasher, turn on all hot water faucets and allow water to run for several minutes. This will allow gases to escape. Do not smoke or use any open flame near the faucet while it is open.**
- **Disconnect electrical power to the dishwasher before attempting to service.**
- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. The fumes can create a fire hazard or explosion.

— SAVE THESE INSTRUCTIONS —

## Operating Instructions

### Using your dishwasher for the first time



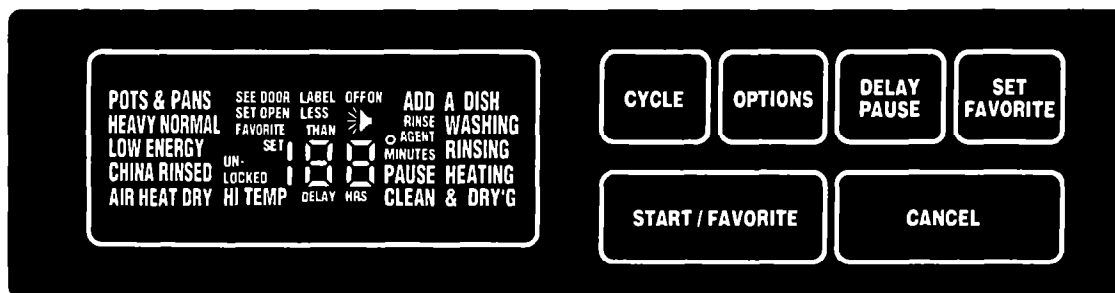
When first installed, or after a power failure, "CA" and "SEE DOOR LABEL" will show on the display. Press the CANCEL pad **twice** to clear this display. Then "SEE DOOR LABEL" and "ADD RINSE AGENT" will show in the display. Fill rinse agent dispenser (see page 20). Press CANCEL **once** to clear the display.

Six program pads, a hidden lock-out pad and the electronic display allow you to program and monitor the dishwasher's operation. A programming tone sounds each time a pad is touched under normal conditions.

The dishwasher is preset for Normal Cycle with the Heat Dry Option. After each use, the dishwasher remembers the last cycle and options used and your selected favorite cycle. The next time the display is lit up for programming, it will show the last cycle that was run or your selected favorite cycle if START/FAVORITE or SET FAVORITE is pressed.

## Operating Instructions

### Continued



The drawings in this book may vary slightly from your dishwasher model. They are designed to show the different features of all the models covered by this book.

**NOTE:** Your model may not include all the features shown.

## Before starting your dishwasher

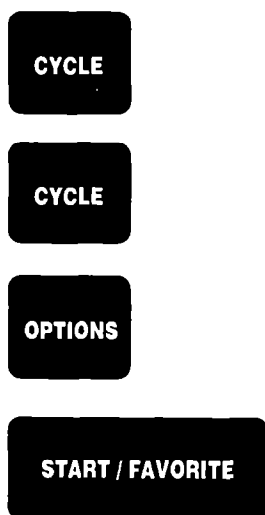
1. Properly load the top and bottom racks, and silverware basket.
2. Spin the Upper and Lower Spray Arms to make sure nothing will stop them from turning freely.
3. Add detergent. See page 19.
4. Check rinse agent dispenser. See page 20.
5. Push door firmly when closing and it will automatically latch.
6. Run hot water at sink nearest dishwasher until it is hot. Turn it off.

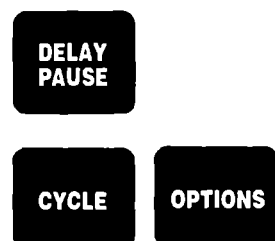
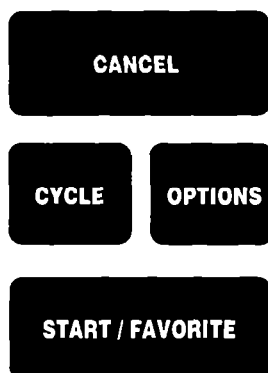
## Starting your dishwasher

1. Press the CYCLE pad once to display the cycle and options. Skip to step 4 if you want to use the cycle and options shown on the display.
2. Press the CYCLE pad until the cycle you want is shown on the display. The time remaining in the cycle and "MINUTES" are shown on the display. Each press of the CYCLE pad advances the display to the next cycle.
3. Press the OPTIONS pad until the option you want is shown on the display. Each press of the OPTIONS pad advances the display to the next option.

4. Press the START/FAVORITE pad.

**NOTE:** Cycle, options, and favorite selections are erased by a power failure.





## Changing a cycle setting

You can change a cycle setting anytime during any cycle.

1. Press the CANCEL pad. The dishwasher will go into a 2-minute drain cycle.
2. Be sure the detergent dispensers are filled properly for the new cycle.
3. Select a new cycle and options.
4. Press the START/FAVORITE pad. The dishwasher will start the new cycle.

## Adding a dish after starting

To be sure the added item is washed and rinsed, make sure "ADD A DISH" is showing on the display.

1. Lift up on the door latch to unlatch door and stop the cycle. Do not open the door until the spray arms stop spinning.
2. Open the door and add the dish.
3. Close the door. **Do not latch it.** Wait 30 seconds for air in the dishwasher to warm up. This helps reduce the amount of moisture that can come from the vent when restarting the cycle.
4. Press door firmly to latch it. The dishwasher will automatically start where it stopped.

## Delaying a wash

The delay feature allows you to delay the start of a cycle from 1 to 9 hours after loading the dishwasher. For example, use the delay feature to run the dishwasher during off-peak hours of electrical use.

1. Press the DELAY/PAUSE pad once to display the last cycle, options and delay selection.
2. Select a new cycle and options, if desired.

## Operating Instructions Continued

**DELAY  
PAUSE**

**2**  
DELAY HRS

**CANCEL**

**DELAY  
PAUSE**

**START / FAVORITE**

3. Press the DELAY/PAUSE pad again to select a 1 hour delay. Pressing the pad again adds another hour of delay to the digital display.

**NOTE:** After "9 delay hours" is selected, pressing the DELAY/PAUSE pad again will display the last selected cycle and options.

4. "DELAY HRS" and the time remaining in hours will show on the display. When the delay time ends, the dishwasher will start.

**NOTE:**

- You may press the START/FAVORITE pad at any time during the delay if you want the dishwasher to start immediately.
- You may press the CANCEL pad to cancel the delay and clear the display.
- You may add items to the load at any time during the delay. **Close the door firmly to latch it.**

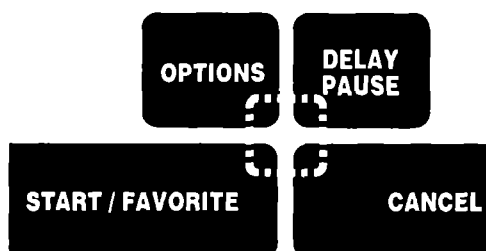
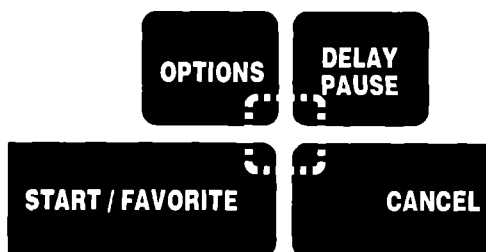
## The CANCEL pad

The CANCEL pad allows you to cancel a cycle or selection and drain the dishwasher or clear the display. If the dishwasher is washing, it will go into a 2 minute drain automatically before shutting off. If the dishwasher has not been started or is not washing, the display will clear.

## Using cycle pause

A cycle can be paused at any time for up to 10 minutes.

1. Press the DELAY/PAUSE pad. The cycle will stop and "PAUSE" will show on the display and blink. After 10 minutes the cycle will resume automatically and "PAUSE" will go off.
2. The cycle can be started sooner by pressing the START/FAVORITE pad.



## Control panel lock-out feature

A hidden pad is located in the center of the control pads. This pad lets you lock-out the function of all the control pads except the Cancel pad. When the control panel is locked-out, the dishwasher cannot be started and a running cycle cannot be changed.

### To use the lock-out feature:

1. Press the hidden pad twice within 2 seconds.

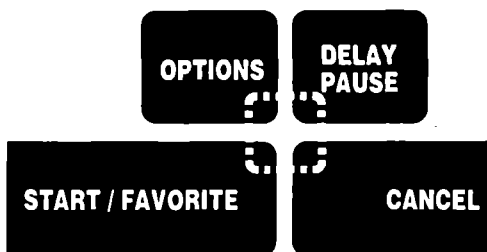
2. "LOCKED" will show briefly on the display and all control pad functions (except the Cancel pad) and the beeping sound will be locked out.

**NOTE:** Pressing any pad except for the CANCEL pad will cause "LOCKED" to show briefly on the display.

### To cancel the lock-out feature:

1. Press the hidden pad twice within 2 seconds.

2. "UN-LOCKED" will show briefly on the display and all control pad functions and the beeping sound will return.



## The beeping sound

- Each time a control pad is pressed, a single "beep" sound is made.
- A double beep means the wrong control pad has been pressed.
- Three beeps sound at the beginning of the drying part of a cycle.
- A longer "beep" sounds at the end of the drying part of a cycle if the Heat Dry Option is used.

### To turn off the beep:

1. Press and hold the hidden pad until the picture of the speaker and "OFF" show on the display.

2. Release the pad.

**NOTE:** A power failure will reset this feature. You will have to repeat the above steps.

### To turn on the beep:

1. Press and hold the hidden pad until the picture of the speaker and "ON" show on the display.
2. Release the pad.

## Using a favorite cycle

You can set the dishwasher to remember the cycle and options you use most often.

### To set your favorite cycle for the first time:

1. Press the START/FAVORITE pad or SET FAVORITE pad. "SET FAVORITE" will show on the display while the cycle and option names flash on and off. (This will only happen if a favorite cycle has never been set.) After 30 seconds the display will go out.





2. Pressing the SET FAVORITE pad during this 30 seconds will set the cycle and option combination that is showing on the display as your favorite cycle. "FAVORITE SET" will be displayed.

**Or you may wait until the display goes out and:**

3. Select your desired cycle by pressing the CYCLE, OPTIONS, and/or DELAY pads.
4. Press the SET FAVORITE pad. The cycle combination and "FAVORITE SET" will be displayed. This is now your favorite cycle.

**NOTE:** Each step must be completed within 15 seconds of the previous step or the display will go blank. If the display goes blank, repeat Steps 3 and 4.

**To display your favorite cycle:**

- From a blank display press the SET FAVORITE pad. The display will show your favorite cycle.

**To change your favorite cycle:**

- Repeat the above steps 3 through 4.

**To start your favorite cycle:**

- Press START/FAVORITE.

The dishwasher will immediately start. If a delay is part of the favorite cycle, the dishwasher will start the delay countdown.

**NOTE:** The favorite cycle settings will be lost during a power failure. Repeat the steps under "To set your favorite cycle for the first time" to reset your favorite cycle.

## The status indicators

The status indicators let you know what your dishwasher is doing during a cycle.

### The electronic display

The electronic display shows:

- The number of minutes remaining in a cycle. The actual time remaining in the cycle may be longer than what's displayed if the dishwasher must heat water during a cycle. (See "The PAUSE HEAT indicator" on page 10.)
- The number of delay hours selected.





### The PAUSE HEAT indicator

The "PAUSE HEAT" indicator and current water temperature will show on the display if the dishwasher needs additional time to heat water in the main wash. The water heating will continue until either the water reaches a temperature between 135°F and 140°F (57°C and 60°C) or a preset time-limit is up. The count down of time remaining in the cycle delays until "PAUSE HEAT" is finished. The "PAUSE HEAT" indicator will not occur if the Pots & Pans Cycle or Hi-Temp Option is selected (see "HEATING" on page 11).



### The CLEAN indicator

"CLEAN" will show on the display at the end of all cycles except for the Rinse Cycle. If the cycle included the Heat Dry Option, "CLEAN & DRY" will show at the end of the cycle. The indicator(s) will stay on until any control pad is pressed.

As an option, you can have the "CLEAN" (or "CLEAN & DRY") indicator turn off the first time you open the door after a cycle is finished:

1. Press and hold the OPTIONS pad until "CLEAN" shows on the display and starts blinking.
2. Release the OPTIONS pad. The "CLEAN" indicator will turn off.

**NOTE:** A power failure will reset this feature. You will have to repeat the above steps.



To again have "CLEAN" (or "CLEAN & DRY") stay on when the door is opened:

1. Press and hold the OPTIONS pad until "CLEAN" shows on the display.
2. Release the pad. The "CLEAN" indicator will turn off.



### Other status indicators

"WASHING" shows on the display during the wash portion of the cycle. The indicator goes off when the last wash of a cycle is complete.



"RINSING" shows on the display during the rinse portion of the cycle.





During a cycle, the "HEATING" indicator shows when the water in the dishwasher is being heated. In the Pots & Pans Cycle or any cycle using the Hi-Temp Option, the "HEATING" indicator and water temperature will be displayed several times if the water needs additional time to be heated. (See "What happens in each cycle" on pages 12 and 13.)

**NOTE:** Loads wash best if water temperature is between 135°F and 140°F (57°C and 60°C). For best washability, use the Hi-Temp Option (see page 15). If you select the Hi-Temp Option and the water does not heat to between 135°F and 140°F (57°C and 60°C) during the cycle, the display will show "HI-TEMP LESS THAN 135°F" at the end of the cycle.

"HEAT DRY'G" or "DRY'G" show on the display during the drying portion of the cycle.

"DOOR OPEN" shows on the display when the door is open and any control pad except CANCEL is pressed when a cycle is not running.

If the door is opened before a cycle begins drying, "DOOR OPEN" will flash on the display. If the door is left open longer than 2 hours, "CA" will replace "DOOR OPEN" and the cycle will have to be reset.

"RINSED" shows on the display at the end of the Rinse Cycle. Pressing any control pad will clear the display.

"SEE DOOR LABEL" and "CA" shows on the display whenever there has been a power interruption or failure. (See page 3.)

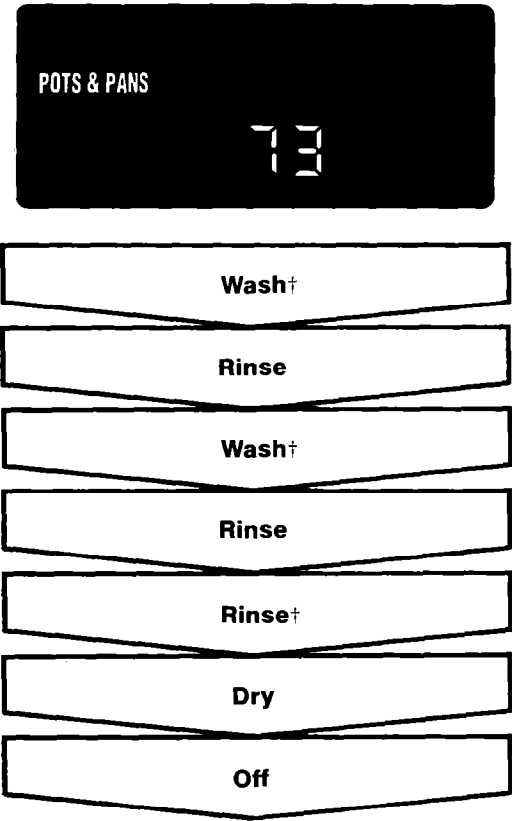
"SEE DOOR LABEL" and "E0, E1, E2, or E4" show on the display whenever there has been a control panel malfunction.

- Touch the CANCEL pad to clear display.
- The dishwasher may drain before shutting off.
- If the display will not clear or continues to show an "E" code at the end of each cycle, call an authorized Whirlpool<sup>SM</sup> service company. (See page 26.)

# What happens in each cycle

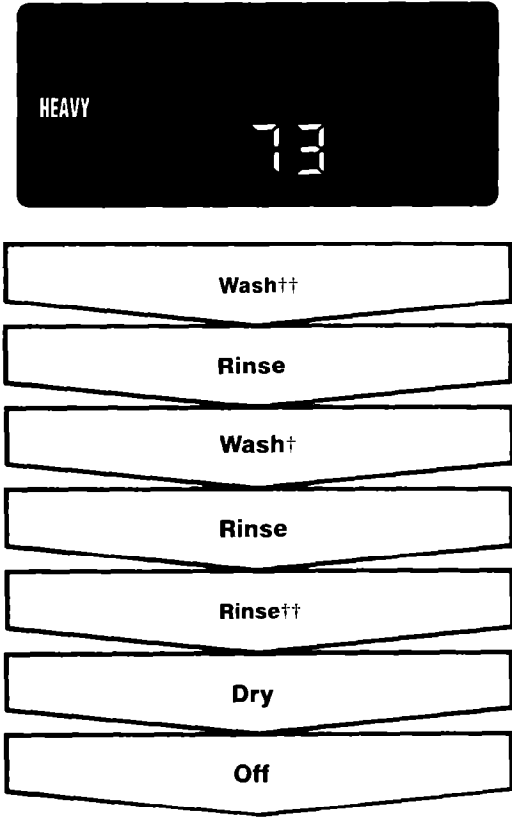
## Pots & Pans Cycle

A double wash with maximum cleaning for cooked-on or baked-on foods. Cycle time\* is about 73 minutes plus the time needed while the timer delays to heat the water (marked †) to 140°F (60°C) in both washes and the last rinse.



## Heavy Cycle

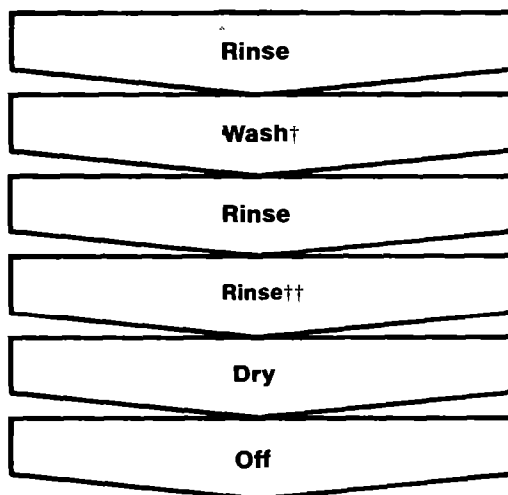
A double wash for heavily soiled loads. Cycle time\* is about 73 minutes plus the time needed while the timer delays to heat the water to 140°F (60°C) in the main wash (marked †) and, if the Hi-Temp Option is selected, in the first wash and last rinse (marked ††).



\*Cycle time includes heated dry times.

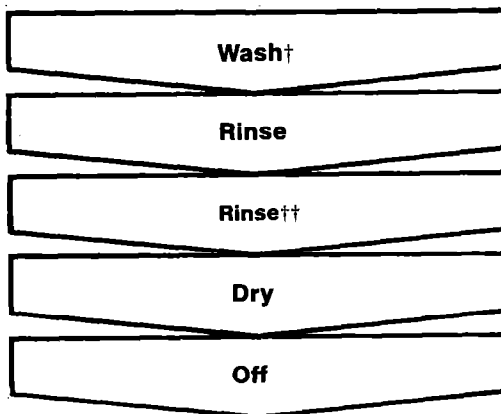
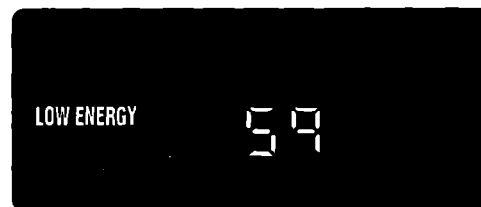
### Normal Cycle

A single wash for normal, everyday soiled loads. (The Energy Guide Label is based on this cycle.) Cycle time\* is about 66 minutes plus the time needed while the timer delays to heat the water to 140°F (60°C) in the wash (marked †) and, if the Hi-Temp Option is selected, in the last rinse (marked ††).



### Low Energy Cycle

A single wash for pre-rinsed or lightly soiled loads. Cycle time\* is about 58 minutes plus the time needed while the timer delays to heat the water to 140°F (60°C) in the wash (marked †) and, if the Hi-Temp Option is selected, in the last rinse (marked ††).

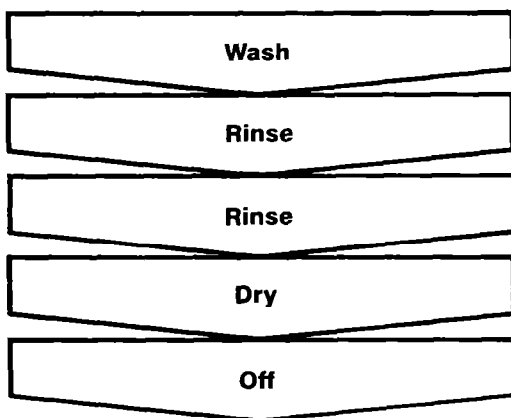


\*Cycle time includes heated dry times.

## Operating Instructions Continued

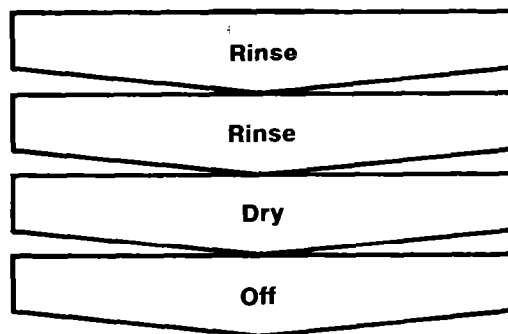
### China Cycle

A single light wash and gentle dry for china and crystal. The heating element cycles on and off during the "dry" part of the cycle when the Heat Dry Option is selected. Cycle time\* is about 59 minutes.



### Rinse Cycle

For rinsing a few items to be washed one or more days later. Cycle time is about 14 minutes.



\*Cycle time includes heated dry times.

## What happens in each option

Options can be selected by pressing the OPTIONS pad. Each press of the pad advances the selection to the next option. You can select Heat Dry, Heat Dry and Hi-Temp, Air Dry, or Air Dry and Hi-Temp. For example, if AIR DRY shows on the display and you want to select the Heat Dry Option, press the OPTIONS pad twice.

### NOTE:

- All options can be changed any time during a cycle.
- The Hi-Temp Option is automatic for the Pots & Pans Cycle, only Heat Dry or Air Dry Options can be selected.
- The Hi-Temp Option is not available for the China Cycle, only Heat Dry or Air Dry Options can be selected.
- If the Rinse Cycle is selected, options are not available.

### Heat Dry Option

"HEAT DRY" will show on the display when the Heat Dry Option is selected. Heat dry means the air in the dishwasher is heated during the "dry" portion of any cycle except the Rinse Cycle.

For best drying results, use a liquid rinse agent such as Jet-Dry.®

### Air Dry Option

"AIR DRY" will show on the display when the Air Dry Option is selected. The Air Dry Option helps save energy, but the load takes longer to dry (overnight) and some spotting may result. Some items (such as plastics) may need towel drying.

For best drying results, use a liquid rinse agent such as Jet-Dry.®

### Hi-Temp Option

"HI TEMP" will show on the display when the Hi-Temp Option is selected. When the Hi-Temp Option is selected, water for the first wash (for cycles with two washes), the main wash and the final rinse is heated to 140°F (60°C).


While the water is heating, "HEATING" and the water temperature will show on the display. The heating time is based on the temperature of the water supply as it enters the dishwasher. The cooler the water, the longer the heating time. A preset time limit will end the water heating if the heating time runs too long.

If the starting water temperature is less than 90°F (32°C), "LESS THAN 90°" will show on the display. When the water temperature reaches 140°F (60°C) the cycle will continue. If the starting water temperature is already hot enough the dishwasher will not pause to heat.

**NOTE:** If the Hi-Temp Option is selected and the water does not heat to between 135°F and 140°F (57°C and 60°C), the display will show "HI TEMP LESS THAN 135°" at the end of the cycle.




HEAT DRY



AIR DRY



HI TEMP 112° HEATING

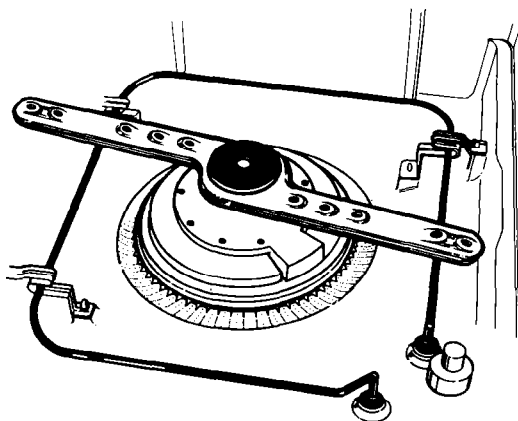


HI TEMP LESS THAN 90° HEATING



HI TEMP LESS THAN 135°

# Proper Loading



## Preparation for loading

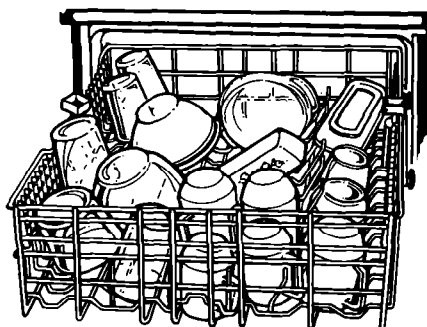
**It is not necessary to rinse dishes before putting them into the dishwasher.** Just remove large pieces, bones and other hard items. The POWER CLEAN™ Module will remove food particles from the water. It contains a chopping device which will reduce the size of food items.

If hard items such as fruit seeds, nuts and egg shells enter the POWER CLEAN Module, you might hear chopping, grinding, crunching or buzzing sounds. Those sounds are normal when hard items enter the module. **Do not** let metallic items (i.e. pot handle screws) get into the POWER CLEAN Module. This could result in damage to the POWER CLEAN Module.

Always load dishes so soiled surfaces are reached by spray from rotating spray arms. Water must be able to drain off completely for best drying results. Be careful to separate items so spray can reach all surfaces.



Cup and glass load



Mixed load

## Top rack loading

The top rack is designed for cups, glasses and smaller items.

### Cup and glass load

- Place so open ends face down for cleaning and draining.
- **Load glasses in top rack only.** Bottom rack is not designed for glasses. Damage may occur.
- Place items in the rows **between** prongs. Placing them **over** the prongs can lead to breakage.
- Be sure lightweight items are held firmly in place.
- China, crystal and other delicate items must not touch each other during dishwasher operation. Damage may occur.

### Mixed load

- Load plastic items **only in the top rack.** Only plastic items marked "dishwasher safe" are recommended.
- Load plastic items so the force of the spray does not move them during the cycle.
- Plastic items can be melted in the bottom rack.

### Utensil load

- Small bowls, pans and other utensils can be placed in the top rack.

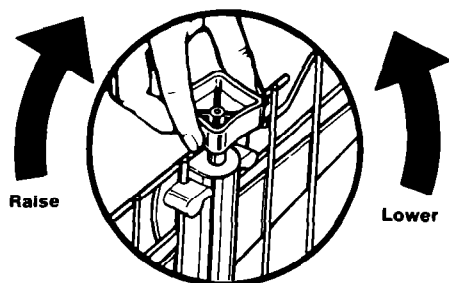




### Extra-capacity fold down shelf

An extra shelf on the right side of the top rack can be folded down over short items (cups, juice glasses, cereal bowls, etc.) to hold extra items.

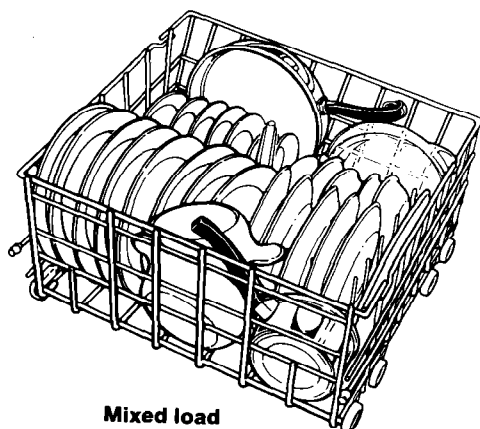
- Adjust rack height if necessary (see below).
- To avoid chipping, do not let stemware touch other items.



### Adjustable top rack

The top rack does not have to be level.

- Raise or lower one or both sides to help fit tall items in the top or bottom rack.
- Turn knob clockwise to raise a side.
- Turn knob counterclockwise to lower a side.



Mixed load

### Bottom rack loading

Items with cooked-on or dried-on food should be loaded in the bottom rack, with soiled surfaces facing inward to the spray.

#### Mixed load

- Make sure pot handles and other items do not stop rotation of the lower spray arm. Spray arm must move freely.
- Load items so they do not block or cover the spray tower.
- Securely place heavily soiled cookware face down in rack.

#### Dish load

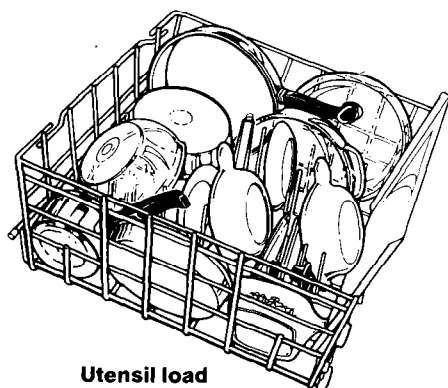
- Place plates, soup bowls, etc., **between** prongs and facing inward to the spray.
- Do not place items directly over spray tower.

#### Utensil load

- Load cookie sheets, cake pans and other large items at sides and back. Loading such items in front may keep water spray from reaching detergent dispenser and silverware basket.

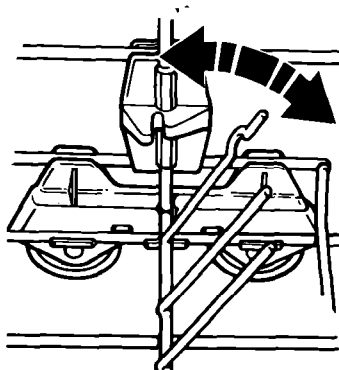
#### NOTE:

- Do not load glasses, cups or plastic items in the bottom rack.
- When lower rack is removed, replace with bumpers in front.



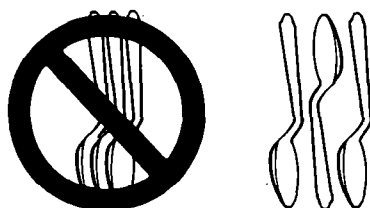
Utensil load

## Proper Loading Continued



### Fold down divider

A fold down divider at the back of the rack can be lowered to make room for deep bowls, roasters, etc.



### Silverware basket loading

Load forks and spoons so they **don't nest together**. Spray can't reach nested items.

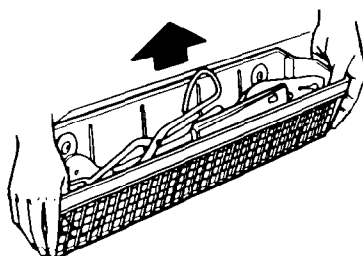
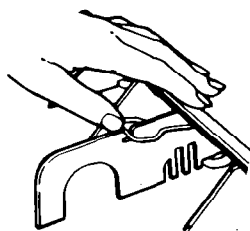
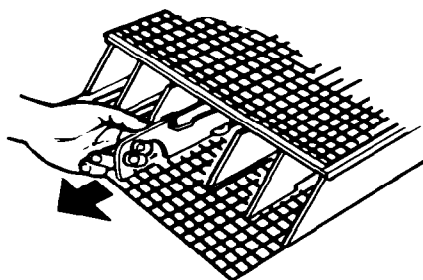
Mix items in each section of the basket. Small items – baby bottle caps, jar lids, etc. – can be put in any section.

The silverware basket can be loaded while it's in place on the door, or it can be taken out for loading on the counter or table.

It can also be removed for easy unloading. Always unload or remove the basket before unloading the racks to avoid spilling water droplets on the silverware.

**To remove the basket**, slide it toward the top of the door – by the handle. Lift it off the holding buttons.

**To replace the basket**, set it on the holding buttons. Slide the basket toward the bottom of the door until it locks in place.



**To open the basket**, unhook the latch as shown. Be sure the cover is completely latched before pulling out the bottom rack and before closing the dishwasher door.

## ⚠ WARNING

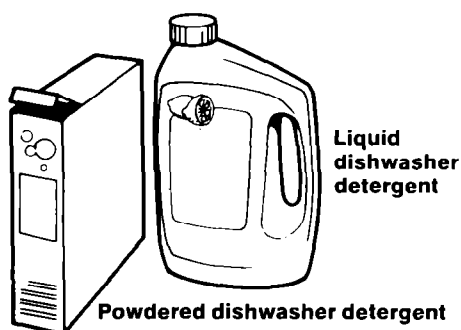
### Personal Injury Hazard

To avoid cuts from sharp items (knives, forks, skewers, etc.), make sure these items are put in point down.

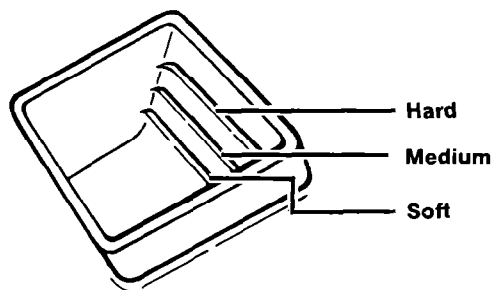
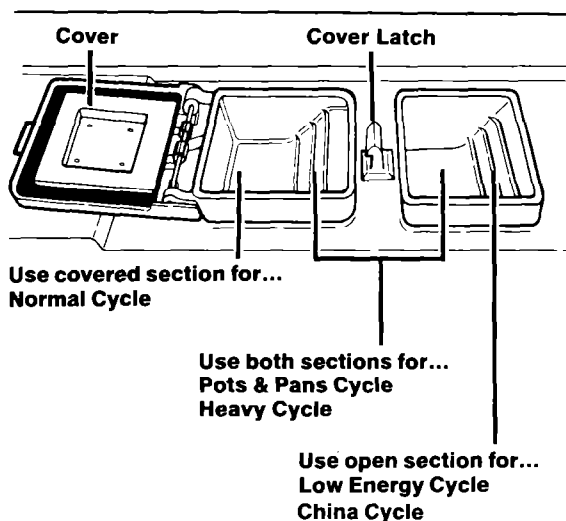
### Cutlery basket loading

Remove and replace the cutlery basket in the same way as the silverware basket. Use the cutlery basket for long items. Remove the basket and tip contents onto a cutting board to unload. This can help avoid accidents with sharp points and edges.

# Adding Detergent



See phosphorus content on product labels.



## What kind of detergent to use

### Use automatic dishwasher detergent only.

Other detergents are too mild and much too sudsy to work in the dishwasher.

Different brands of dishwasher detergent have different amounts of phosphorus for softening water. If water is hard and phosphorus content is low (6.0% or less), you may need to use more detergent or use a brand with a higher phosphorus content (8.7% or higher).

Do not add detergent until you are ready to wash. **Fresh automatic dishwasher detergent is necessary for best washing results.**

Store detergent tightly closed in a cool, dry place.

## The detergent dispenser

The detergent dispenser has one section with a cover and one without.

- For cycles with one wash, put detergent in one section only.
  - Use the **open** section if the cycle begins with a wash.
  - Use the **covered** section if the cycle begins with a rinse.
- For cycles with two washes, put detergent in both sections.
- Push the cover down until it is latched.

Detergent in the open section falls into the dishwasher when the door is closed. The covered section opens automatically when the main wash starts.

**NOTE:** It is normal for the cover to open partially when dispensing detergent. The cover will open fully when the door is opened.

## How much detergent to use

The amount of detergent to use depends on the hardness of your water. If too little is used, dishes won't be clean. However, if too much is used in soft water, glassware will begin to etch.

Find out your water's hardness by asking your local water department, water softener company or county extension agent.

- **HARD** – Fill 1 or both sections to top line if water hardness is 8 or more grains per gallon, or 136 or more parts per million.
- **MEDIUM** – Fill 1 or both sections to middle line if water hardness is 5 to 7 grains per gallon, or 85 to 119 parts per million.
- **SOFT** – Fill 1 or both sections to bottom line if water hardness is 0 to 4 grains per gallon, or 0 to 68 parts per million.

# Using Rinse Agent Dispenser

## Rinse agent dispenser

Keep the rinse agent dispenser filled with a liquid rinse agent such as Jet-Dry.<sup>®</sup> **A rinse agent greatly improves the drying of dishes by helping water flow off of them during the last rinse.** A rinse agent also keeps water from forming droplets and drying as spots. A small amount of rinse agent is automatically released into the rinse water during the final rinse of each cycle.

**For best drying results, check the dispenser periodically to see if it needs refilling.**

## To check dispenser

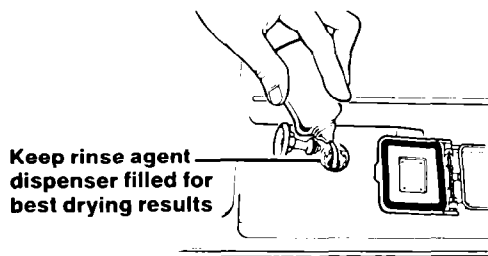
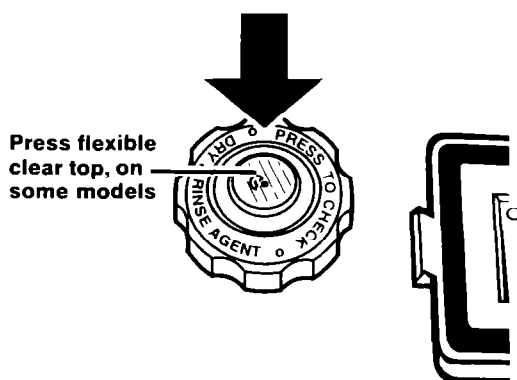
The center of the Fill Indicator Cap will be clear when dispenser needs refilling. An "E" will also be visible inside the dispenser when the cap is removed and the dispenser is empty.

## On some models:

1. Press the flexible clear top of the Fill Indicator Cap to draw rinse agent into cap.

**NOTE:** You may need to press cap two or three times to remove all of the air bubbles from the cap.

2. When rinse agent does not show in cap, even after pressing flexible cap several times, dispenser needs refilling.



## To fill dispenser

The dispenser will hold 6 ounces of rinse agent. Under normal conditions, this will last about 3 months. You do not have to wait until the dispenser is empty to refill it, but do not overfill it.

Make sure the dishwasher door is fully open before removing the Fill Indicator Cap. Do not fill past the smallest opening in the lower part of the dispenser. If you overfill, excess rinse agent can come out. This will not harm the dishwasher, but could cause over-sudsing. Clean up any spilled rinse agent with a damp cloth. Replace the Fill Indicator Cap and keep it tightly closed.

**NOTE:** Because your dishwasher is designed to use a liquid rinse agent, you do not need to use a solid or bar-type rinse agent.

# For Best Results

## Hot water is a must

Hot water dissolves and activates the dishwashing detergent. Hot water dissolves grease on dishes and helps dry glasses spot-free. Make certain loads are washed in hot water. Two ways to have a reliable hot water supply...

1. Maintain a 140°F (60°C) water supply at central water heater. To check water temperature, turn on hot water faucet nearest the dishwasher. Let water run until it is as hot as possible, then check with a candy or meat thermometer. If the temperature at the faucet is below 135°F (57°C), have a qualified person raise the water heater thermostat setting.
2. Use the Hi-Temp Option. If water heating is needed, a thermostat will delay the cycle while the dishwasher heats the water until the temperature reaches 140°F (60°C). If water is hot enough, the cycle will proceed with no delay. This lets you turn down your water heater, if you choose, without cutting back on hot water needed for good dishwashing.

## Quiet operating tips

To avoid thumping and clattering noises during operation:

- Make sure lightweight load items are secured in the rack.
- Make sure pot lids and handles, pizza pans, cookie sheets, etc. do not touch interior walls or interfere with either of the spray arms rotation.
- Load dishes so they **don't** touch one another.

**NOTE:** Keep sink drain plugs inserted during dishwasher operation to prevent noise transfer through drains.

## Special tips

Remember, use your dishwasher only for the job it was designed to do. Some items are not dishwasher safe or may require special care. Read these special tips for the following items:

**Aluminum:** Aluminum loses its bright, shiny appearance and darkens in color due to minerals in the water and the alkalinity of the dishwasher detergent. Colored aluminum may fade.

**TIPS:** If washed in the dishwasher avoid placing directly in front of detergent dispenser where it could be sprinkled with undissolved detergent, causing spotting, pitting, and discoloration. Follow utensil manufacturer's cleaning instructions.

**China:** Check manufacturer's recommendations. Hand-painted, metal-trimmed, and antique china fade due to high water temperatures and alkaline detergent solution in the dishwasher.

**NOTE:** Delicate, antique items should not be washed in the dishwasher.

**TIPS:** Load china carefully. **Do not** allow pieces to touch each other. Test one piece by washing it daily in the dishwasher for several weeks. Then compare it with the rest of the set to see if colors have changed.

**Crystal and decorative glasses:** Crystal can break from sudden exposure to high water temperature. Metal trim and colorful decoration on glass will fade in time when washed in the dishwasher.

**NOTE:** Delicate, antique items should not be washed in the dishwasher.

**TIPS:** Load crystal carefully in **top rack only**. Be sure to load a few larger items in the bottom rack to reduce amount of force of water spray reaching glassware from lower spray arm. Use the shortest cycle.

**Flatware:** Salty and acidic food may tarnish silver and stainless flatware if allowed to remain on the utensils. A film may form on sterling silver and silver plate items washed in a dishwasher. This film is caused by reaction of silver with chlorine in the detergent. **Gold flatware is not dishwasher safe.** The adhesive used in some flatware with hollow handles is not heat resistant, causing the handles to come off in the dishwasher. Wash by hand.

**TIPS:** Rinse flatware as soon as possible, especially if it is not to be washed right away. Dishwasher detergent may remove antique finishes. Wash by hand. Tarnish and film build-up can be removed with silver polish.

**Cast iron utensils:** The seasoned finish will be removed in the dishwasher. Rusting will result.

**TIPS:** Wash by hand. To re-season, coat with unsalted fat and heat in a slow oven for an hour or two.

**Plastics:** Many plastics will have "Dishwasher Safe" written on them. Some plastics are heat sensitive and may melt or warp.

**TIPS:** If in doubt, try one piece. Place in upper rack only. Air Dry Option provides additional protection.

**Non-stick finish utensils:** Most can be washed in the dishwasher.

**TIPS:** Follow manufacturer's suggestions.

**Wood:** Many wooden items will crack and warp or lose their finish.

**TIPS:** **Do not** wash cutting boards, wooden salad bowls or knives with wooden handles in the dishwasher.

**Pewter or pewter-like materials:** Items may streak, discolor, and pit.

**TIPS:** To keep pewter at its very best, hand wash with mild detergent.

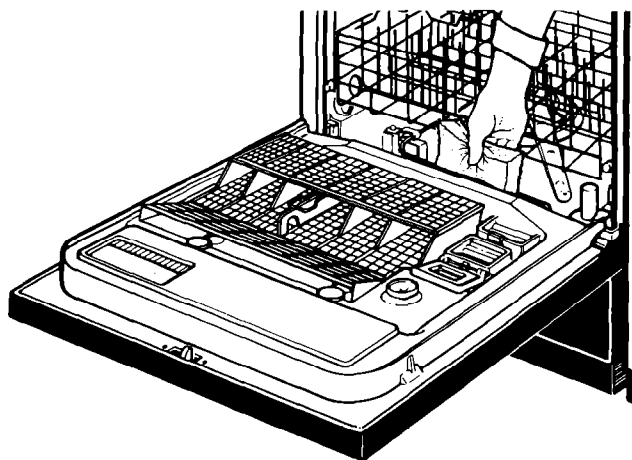
**For Best Results  
Continued**

**LOW ENERGY**

**Energy saving tips**

You can help save energy if you:

- 1. Wash full loads.** Running a half-filled dishwasher uses the same amount of electricity and hot water as a fully loaded machine.
- 2. Use the Low Energy Cycle whenever possible.** It uses less hot water and energy than other cycles.
- 3. Air dry dishes** when you don't need a rapid drying cycle. Allow longer drying times (overnight). Use a rinse agent to improve drying.
- 4. Load correctly** for best washing results. Incorrect loading may cause poor washing and the need to rewash all or part of the load.
- 5. Do not pre-rinse normally soiled dishes.** Select the correct cycle for the load and use the recommended amount of detergent for good washing results without hand rinsing.
- 6. Use your dishwasher** during off-peak hours. Local utilities recommend this to avoid heavy usage of energy at certain times of day.



**Dishwasher care & cleaning**

**Exterior** – Regular use of a soft, damp cloth or sponge and a mild detergent is all that is necessary, in most cases, to keep the outside of your dishwasher nice looking and clean.

**Interior** – Hard water minerals may cause a white film to build-up on the inside surfaces, especially just beneath the door area. To clean dishwasher interior:

1. Apply powdered dishwasher detergent to a damp sponge to make a paste.  
OR
2. Use liquid automatic dishwasher detergent and clean with damp sponge.

Wear rubber gloves. **Do not** use any type of cleanser other than automatic dishwasher detergent because it may cause foaming or sudsing.

# Common Dishwashing Problems

## Spotting and filming

### Hard water

Fill detergent dispensers to capacity. Use dishwasher detergent with highest available phosphorus content. May be necessary to install water softener.

To remove spots and film, try a vinegar rinse...

1. Wash and rinse load as usual. Use Air Dry Option.
2. Remove all metal items.
3. Put 2 cups (500 mL) white vinegar in a container on the bottom rack.
4. Run dishwasher through a complete washing cycle.

### Water is not hot enough

Water temperature should be at least 140°F (60°C). Set water heater thermostat to a higher setting. Run water at sink until hot before starting and/or use Hi-Temp Option.

### Not enough detergent, or improper detergent

Use more dishwasher detergent. Use detergent with highest available phosphorus content...especially with hard water.

### "Old" detergent

Use only fresh dishwasher detergent. Store **tightly closed** container, in cool, dry place. Discard old detergent. Do not fill dispensers until ready to start dishwasher.

### Improper loading

Make sure dishes and glassware are loaded so spray reaches all surfaces and items drain properly. Do not overload. Do not nest items. Make sure large items do not block spray from reaching detergent dispensers.

### No rinse agent

Does the rinse agent dispenser need filling? See instructions on page 20.

### AIR DRY Setting used

Drying without heat may result in some spotting of glasses and silver.

## Small particles deposited on items

### Spray arm not rotating freely

Check spray arm to make sure it turns freely after loading. Be sure a utensil has not prevented its turning.

### "Old" detergent

Use only fresh dishwasher detergent. Store **tightly closed** container, in cool, dry place. Discard old detergent. Do not fill dispensers until ready to start dishwasher.

## Not enough detergent, or improper detergent

Use more dishwasher detergent. Use detergent with highest available phosphorus content...especially with hard water.

### Water is not hot enough

Water temperature should be at least 140°F (60°C). Set water heater thermostat to a higher setting. Run water at sink until hot before starting and/or use Hi-Temp Option.

### Water pressure may be low, dishwasher is not filling properly

If water pressure is low, do not use water for other purposes while dishwasher is running (to assure correct fills).

## Dishes not dry

### No rinse agent

Does the rinse agent dispenser need filling? See instructions on page 20.

### Water is not hot enough

Water temperature should be at least 140°F (60°C). Set water heater thermostat to a higher setting. Run water at sink until hot before starting and/or use Hi-Temp Option.

### Improper loading

Make sure dishes and glassware are loaded so spray reaches all surfaces and items drain properly. Do not overload. Do not nest items.

### AIR DRY Setting used

Allow more time when using Air Dry Option, or use Heat Dry Option. Plastic items may need towel drying.

## Black marks on dishes

### Aluminum utensils rubbing against items during washing

**Use care** in loading aluminum utensils, especially any lightweight foil container. Place so they do not touch dishes. Remove black marks with plastic scouring pad and a mild abrasive cleanser.

## Chipping or breaking glassware

### Improper loading

Do not overload. Load glasses in the top rack only. Load between prongs, not over them. Glasses loaded over prongs will not be supported and may chip or break.

## Common Dishwashing Problems Continued

### Dishes not washing clean

#### Water is not hot enough

Water temperature should be at least 140°F (60°C). Set water heater thermostat to a higher setting. Run water at sink until hot before starting and/or use Hi-Temp Option.

#### Improper loading

Make sure dishes and glassware are loaded so spray reaches all surfaces and items drain properly. Do not overload. Do not nest items. Make sure large items do not block spray from reaching detergent dispensers.

#### Spray arm or arms not rotating freely

Check spray arms to make sure they turn freely after loading. Be sure a utensil has not prevented their turning.

#### Not enough detergent or improper detergent

Use more dishwasher detergent. Use detergent with highest available phosphorus content... especially with hard water.

#### "Old" detergent

Use only fresh dishwasher detergent. Store **tightly closed** container, in cool, dry place. Discard old detergent. Do not fill dispensers until ready to start dishwasher.

#### Water pressure may be low, dishwasher is not filling properly

If water pressure is low, do not use water for other purposes while dishwasher is running (to assure correct fills).

#### Cloudy film on glassware, etching – permanent corrosion

##### Too much detergent in soft water

Check for rainbow hue on glasses. A rainbow hue is the first sign of etching (corrosion of glass). Reduce the amount of dishwasher detergent. Use a detergent with a lower phosphorus content.

##### Inadequate rinsing

If water pressure is low do not use water for other purposes while dishwasher is running (to assure correct water fills). Make sure dishes and glassware are loaded properly to assure adequate rinsing and draining. Do not overload.

#### Dishes & interior of dishwasher yellow or brown

##### Iron or manganese in water

##### Temporary remedy:

1. Set empty dishwasher for a "one wash" cycle.

2. Start dishwasher and unlatch door to stop it when it has filled for the wash part of the cycle.
3. Add ¼ to ½ cup (120 to 240 mL) of citric acid crystals (usually available in drugstores).
4. Close and latch door to complete cycle.

**Permanent solution:** Install an iron or manganese filter or water softener to home water supply.

#### Rust spots on stainless steel – OR – Dark spots on flatware: stainless steel, silver plate, or sterling

##### Allowing salty or acidic foods such as mayonnaise, vinegar, fruit juices, salad dressings, milk products to remain on flatware

Rinse flatware that is to stand for several hours before washing (use the Rinse Cycle). Clean stained items with silver polish and re-wash.

**Do not** put stainless steel and silver flatware in the same silverware basket compartment. Direct contact between these metals can cause permanent damage to the silver.

##### Undissolved detergent coming in contact with flatware

Remove spots with silver polish. Avoid spilling concentrated detergent on wet flatware.

#### Bronze tarnish on silverplate

##### Silverplate is worn off. Exposed base metal takes on a bronzed hue

Remove tarnish with silver polish. Have silver replated.

#### Water left in bottom of dishwasher above grate

##### Dishwasher cycle not completed

Allow dishwasher to complete cycle. Some remaining water is normal and keeps seals from drying.

#### Clogged drain air gap

Some plumbing codes require use of a drain air gap between an **undercounter** dishwasher and the drain system of the house. The air gap is usually located above the sink or on the top of the counter near the dishwasher to prevent the possibility of water backing up from the drain into the dishwasher due to a plugged drain. The drain air gap is **not** a part of the dishwasher and is **not** covered by the dishwasher warranty. The drain air gap should be kept clean to ensure proper draining of the dishwasher.



# If You Need Service Or Assistance

## We suggest you follow these steps:

### 1. Before calling for assistance...

Performance problems often result from little things you can find and fix yourself without tools of any kind.

#### If your dishwasher will not run, or stops during a cycle:

- Is the door tightly closed and securely latched?
- Has the cycle been correctly set and the Start/Favorite pad pressed?
- Is the water turned on?
- Have you checked your home's main fuses or circuit breaker box?
- Is the dishwasher wired into a live circuit with the proper voltage?
- If the motor has stopped because of an overload, it will automatically reset itself within a few minutes. If the motor does not start, call for service.
- Is the delay feature on?

#### If your dishwasher seems to run too long:

- Is your household water temperature set too low? Low water temperature settings will cause longer dishwasher operating times.
- Are you using Pots & Pans Cycle or Hi-Temp Option? The dishwasher may be waiting for the water to heat.

#### If dishwasher won't fill:

- Is overflow protector stuck in "up" position? Overflow protector should move up and down freely. Press down to release.

#### If water remains in the dishwasher:

- Has the cycle completed?
- A small amount of remaining water is normal.
- Is drain air gap clogged?

#### If detergent remains in the covered detergent cup:

- Is the bottom rack in backwards? (The rack bumpers should be at the front.)
- Is the dishwasher detergent fresh and dry without lumps?
- Is the cycle completed?

#### If HI-TEMP LESS THAN 135° indicator shows at the end of a cycle:

- Have you run water at the nearest sink before starting the dishwasher?
- Is water temperature at the household water heater at least 140°F (60°C)? Set water heater thermostat to a higher setting.

#### If CA shows on the display:

- Has there been a power failure?
- Has the door been open longer than 2 hours? (See page 11)

#### If "LOCKED" shows on the display or the control pads don't work:

- Is the lock-out feature on? (See page 7)

#### If the beep does not sound when pads are pressed:

- Has the sound signal been turned off? (See page 8)

#### If white residue appears on front of access panel:

- Is more detergent being used than needed? See page 19 for recommended amounts of detergent.
- Some liquid detergents develop excess foam and build up on exterior of access panel. Try a different brand to reduce foaming and eliminate build-up.

#### If you hear grinding, grating, crunching, buzzing sounds:

- A hard object has probably entered the POWER CLEAN™ Module. The sound should stop when the object is ground up.

#### If dishes aren't as dry as you expected:

- Is the rinse agent dispenser filled? Using a rinse agent greatly improves drying. (See page 20.)

### 2. If you need assistance\*...

**Call Whirlpool Consumer Assistance Center telephone number. Dial free from anywhere in the U.S.:**

**1-800-253-1301**

and talk with one of our trained consultants. The consultant can instruct you in how to obtain satisfactory operation from your appliance or, if service is necessary, recommend a qualified service company in your area.

If you prefer, write to:

Mr. William Clark  
Consumer Assistance Representative  
Whirlpool Corporation  
2000 M-63  
Benton Harbor, MI 49022

Please include a daytime phone number in your correspondence.

## If You Need Service Or Assistance Continued

### 3. If you need service\*...



Whirlpool has a nationwide network of authorized Whirlpool<sup>SM</sup> service companies. Whirlpool service technicians are trained to fulfill the product warranty and provide after-warranty service, anywhere in the United States. To locate the authorized Whirlpool service company in your area, call our Consumer Assistance Center telephone number (see Step 2) or look in your telephone directory Yellow Pages under:

APPLIANCES - HOUSEHOLD -  
MAJOR - SERVICE & REPAIR      ELECTRICAL APPLIANCES -  
MAJOR - REPAIRING & PARTS

OR

WASHING MACHINES, DRYERS  
& IRONERS - SERVICING

WHIRLPOOL APPLIANCES  
AUTHORIZED WHIRLPOOL SERVICE

SERVICE COMPANIES

XYZ SERVICE CO  
123 MAPLE ..... 999-9999

### 4. If you need FSP<sup>®</sup> replacement parts\*...

FSP is a registered trademark of Whirlpool Corporation for quality parts. Look for this symbol of quality whenever you need a replacement part for your Whirlpool appliance. FSP replacement parts will fit right and work right, because they are made to the same exacting specifications used to build every new Whirlpool appliance.

To locate FSP replacement parts in your area, refer to Step 3 above or call the Whirlpool Consumer Assistance Center number in Step 2.

### 5. If you are not satisfied with how the problem was solved\*...

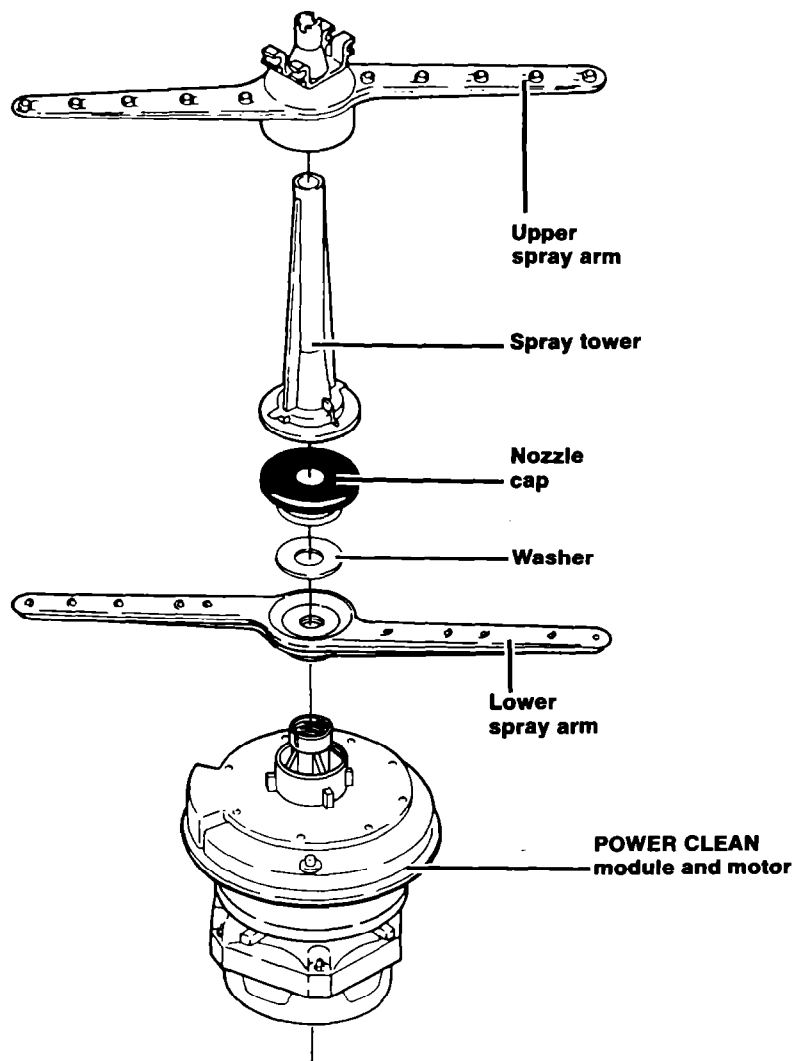
- Contact the Major Appliance Consumer Action Panel (MACAP). MACAP is a group of independent consumer experts that voices consumer views at the highest levels of the major appliance industry.
- Contact MACAP only when the dealer, authorized servicer and Whirlpool have failed to resolve your problem.

Major Appliance Consumer Action Panel  
20 North Wacker Drive  
Chicago, IL 60606

- MACAP will in turn inform us of your action.

\*When requesting assistance, please provide: model number, serial number, date of purchase, and a complete description of the problem. This information is needed in order to better respond to your request.

**POWER CLEAN™ washing system parts  
covered by your warranty**



# WHIRLPOOL® Dishwasher Warranty

LENGTH OF WARRANTY	WHIRLPOOL WILL PAY FOR
<b>FULL ONE-YEAR WARRANTY</b> From Date of Purchase	FSP® replacement parts and repair labor to correct defects in materials or workmanship. Service must be provided by an authorized Whirlpool <sup>SM</sup> service company.
<b>LIMITED ONE-YEAR WARRANTY</b> Second Year From Date of Purchase	FSP replacement parts for any part of the POWER CLEAN™ Washing System if defective in materials or workmanship. These parts are shown on page 27 of this book.
<b>LIMITED FOUR-YEAR WARRANTY</b> Second Through Fifth Year From Date of Purchase	FSP replacement parts for Electronic Control System if defective in materials or workmanship. For models with platinum nylon coated dishracks, FSP replacement parts for the upper and/or lower dishracks if they rust due to defective materials or workmanship.
<b>FULL TWENTY-YEAR WARRANTY</b> From Date of Purchase	FSP replacement parts and repair labor for the DURAPERM™ tub and/or inner door should they fail to contain water due to defective materials or workmanship.
<b>WHIRLPOOL WILL NOT PAY FOR</b>	
<p><b>A.</b> Service calls to:</p> <ol style="list-style-type: none"> <li>1. Correct the installation of the dishwasher.</li> <li>2. Instruct you how to use the dishwasher.</li> <li>3. Replace house fuses or correct house wiring or plumbing.</li> </ol> <p><b>B.</b> Repairs when dishwasher is used in other than normal, single-family household use.</p> <p><b>C.</b> Pickup and delivery. This product is designed to be repaired in the home.</p> <p><b>D.</b> Damage to dishwasher caused by accident, misuse, fire, flood, acts of God or use of products not approved by Whirlpool.</p> <p><b>E.</b> Any labor costs during limited warranties.</p> <p><b>F.</b> Repairs to parts or systems caused by unauthorized modifications made to the appliance.</p>	

8/92

WHIRLPOOL CORPORATION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages so this limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Outside the United States, a different warranty may apply. For details, please contact your authorized Whirlpool distributor or military exchange.

If you need service, first see the "Service or Assistance" section of this book. After checking "Service or Assistance," additional help can be found by calling our Consumer Assistance Center telephone number, **1-800-253-1301**, from anywhere in the U.S.

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