

# **Use And Care**



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1-800-253-1301
Call our Consumer Assistance Center with questions or comments.

**DISHWASHER MODEL SERIES 400, 800, 810, 830, 840**PART NO. 3373757 Rev. A

# A Note to You

#### Thank you for buying a Whirlpool® appliance.

Because your life is getting busier and more complicated, Whirlpool dishwashers are easy to use, save time, and help you manage your home better. To ensure you enjoy years of trouble-free operation, we developed this Use and Care Guide. It contains valuable information about how to operate and maintain your appliance properly and safely. Please read it carefully.

Also, please complete and mail the Ownership Registration Card provided with your appliance. This card helps us notify you about any new information on your appliance.

#### Please record your model's information.

Whenever you call to request service for your appliance, you need to know your complete model number and serial number. You can find this information on the model and serial number label (see diagram on page 4 for location of label).

Please also record the purchase date of your appliance and your dealer's name, address, and telephone number.

Keep this book and the sales slip together in a safe place for future reference.

Our Consumer Assistance Center number is toll-free 24 hours a day.

1-800-253-1301

#### Help us help you

Please:

- Have your dishwasher installed by a qualified installer.
- Install where dishwasher is protected from the elements.
- Install and level dishwasher on a floor that will hold the weight, and in an area suitable for its size and use.
- Properly connect dishwasher to electricity, water, and drain.\*
- See Installation Instructions for complete information.

- Remove all shipping plugs from hoses and connectors (such as the cap on the drain outlet) before installing.\*
- Remove all hang tags and temporary labels.
- Make sure dishwasher is not used by anyone unable to operate it properly.
- Properly maintain dishwasher. See page 18.

# **Dishwasher Safety**

#### Your safety is important to us.

This guide contains safety statements under warning symbols. Please pay special attention to these symbols and follow any instructions given. Here is a brief explanation of the use of the warning symbol.

#### AWARNING

This symbol alerts you to such dangers as fire, electrical shock, burns, and personal injury.

### **IMPORTANT SAFETY INSTRUCTIONS**

#### AWARNING

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

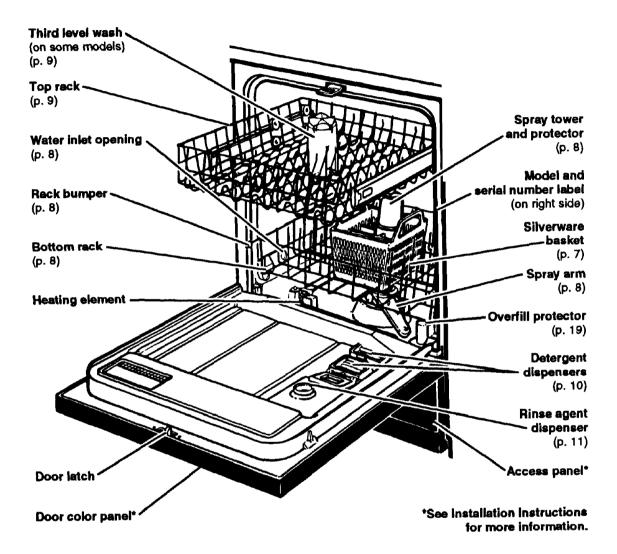
- Read all instructions before using the dishwasher.
- Use your dishwasher only for the uses described in this manual.
- DISHWASHER MUST BE ELECTRI-CALLY GROUNDED. Read the Installation Instructions for details.
- When discarding an old dishwasher, always remove the door to prevent accidental entrapment or suffocation.
- Use ONLY detergents and rinse agents recommended for use in a dishwasher.
- Store dishwasher detergent in a cool, dry place WHERE CHILDREN CAN'T REACH IT.
- When loading items to be washed:
- Load sharp items and knives with the handles up to reduce risk of cut-type injuries.
- Locate sharp items and knives so that they are not likely to damage the door or tub.
- 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 dishracks.
- 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.
- 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.
- Disconnect electrical power to the dishwasher before attempting to service.

- SAVE THESE INSTRUCTIONS -

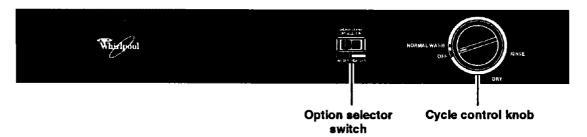
# **Parts and Features**

Your dishwasher is illustrated below with the parts and features called out. To help you find information on specific parts or features quickly, page references are included.

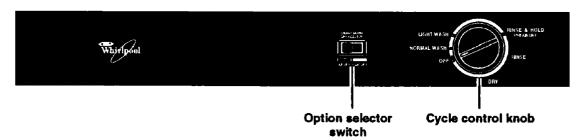


#### PARTS AND FEATURES

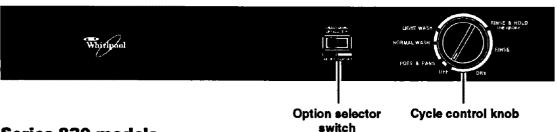
#### Series 400 models



#### Series 800 models



#### Series 810 models



#### Series 830 models



#### Series 840 models



# **Starting Your Dishwasher**

This section tells you how to start or stop your dishwasher. Refer to it for quick reference.

### Starting a wash cycle

1. Load the dishwasher. See pages 7-9.



2. Spin the spray arm. It should turn freely.



Add detergent. See page 10.



4. Add rinse agent, if needed. See page 11.



5. Close door firmly until it latches.



6. Run hot water at the sink nearest the



dishwasher until water is hot. Turn water off. (See page 20.) 7. Select a drying option. (See page 13.)



For models with buttons, the indicator above the button will show red when the option has been selected. For models with rocker switches, the

switch indicates which option has been selected.



NOTE: Select AIR DRY for the RINSE & HOLD cycle. For Series 840 models, push a Cycle button for the desired cycle. NORMAL WASH,

LIGHT WASH, and RINSE & HOLD cycles share the same button. The Cycle Control Knob determines which cycle operates. For Series 830 models, the HEAT DRY option is automatically selected with the POTS & PANS cycle.

8. Turn the Cycle Control Knob clockwise to



the desired cycle. You will feel a definite "stop" at each cycle mark. The dishwasher automatically starts the cycle you select.

NOTE: If the door is latched, you will hear the cycles start and stop as the control knob passes each cycle mark. This is normal and does not hurt the dishwasher. If you prefer, you can set the Cycle Control Knob with the door unlatched.

# Stopping the dishwasher

You can stop your dishwasher anytime during a cycle. All you have to do is:

 Open the door slightly. Wait for any filling or spraying action to stop before opening the door all the way. Close the door to continue the cycle. OR

 Turn the Cycle Control Knob slowly clockwise until you hear water draining. Let the dishwasher drain completely. Then open the door and turn the Cycle Control Knob to OFF.

# **Loading Your Dishwasher**

This section tells how to properly load your dishwasher for best washing and rinsing results.

### Preparing to load the dishwasher

- To save water and energy, do not rinse dishes before putting them into the dishwasher.
- Remove large pieces of food, bones, and other hard items.
- Foods like eggs, rice, pasta, and cooked cereals may be hard to remove if left to dry over a period of time. Run a RINSE & HOLD cycle to keep dishes moist if you do not plan to wash them soon.
- Load dishes so soiled surfaces face the rotating spray arm.
- Load dishes so they are not stacked or overlapping. It is important for the water spray to reach all soiled surfaces for best washing. For best drying, water must be able to drain from all surfaces.

#### Loading for quiet operation

- · Secure lightweight load items in the racks.
- Pot lids and handles, pizza pans, cookie sheets, etc., should not touch interior walls, interfere with the spray arm's rotation, or cover the spray tower.
- Load dishes so they do not touch one another.

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

# Loading the silverware basket

#### AWARNING

#### Personal Injury Hazard

Load sharp items (knives, forks, skewers, etc.) with the point down.

Failure to do so could cause personal injury.

- Load the silverware basket while it is in the bottom rack or take the basket out for loading on a counter or table.
- NOTE: The loaded basket must be placed in the center front (over the spray tower) of the bottom rack for proper washing.
- Mix items in each section of the basket with some pointing up and some down to avoid nesting. Spray cannot reach nested items. However, always load sharp items (knives, skewers, forks, etc.) pointing down.
- Put small items (baby bottle caps, jar lids, etc.) in any section.
- You can also remove the basket for easy unloading. Always unload or remove the basket before unloading the racks to avoid spilling water on the silverware.



### Loading the bottom rack

Load items with cooked-on or dried-on food in the bottom rack, with soiled surfaces facing inward to the spray.

#### Mixed load

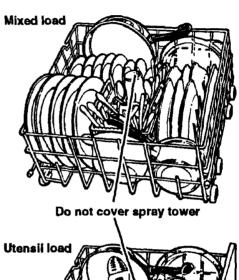
- Load plates, soup bowls, etc., between prongs and facing inward to the spray.
- Make sure pot handles and other items do not stop rotation of the spray arm. Spray arm must move freely.
- Load items so they do not block or cover the spray tower.
- Load heavily soiled cookware face down in rack.
- Do not stack or overlap dishes. Water spray must reach all soiled surfaces for best results.

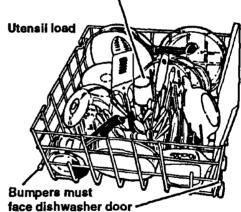
#### Utensil load

 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.
- Do not load items between the bottom rack and the side of the dishwasher tub. This can block the water inlet opening.
- If you have removed the bottom rack for unloading or cleaning, replace it with bumpers in front.





# Loading the top rack

Load the top rack with cups, glasses, and smaller items. Do not cover the third level wash (on some models) when loading the top rack.

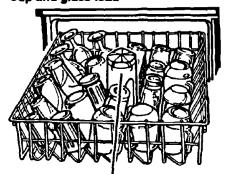
#### Cup and glass load

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

#### Mixed load

- Small bowls, pans, and other utensils can be placed in the top rack.
- Load plastic items in the top rack only.
   Plastic items may melt in the bottom rack.
- Wash only plastic items marked "dishwasher safe."
- Load plastic items so the force of the spray does not move them during the cycle.

#### Cup and glass load



Do not cover third level wash (on some models)

#### Mixed load



# **Using the Dispensers**

For best washing results, review the information below. It is important to use detergents and rinse agents properly.

### Using the detergent dispenser

- Use automatic dishwashing detergent only. Other detergents are too mild and much too sudsy.
- Add detergent just before starting cycle.
- Store detergent tightly-closed in a cool, dry place. Fresh automatic dishwasher detergent results in better cleaning.

#### Filling the detergent dispenser

The detergent dispenser has one section with a cover and one without. Push cover down firmly until it latches. Detergent in the open section falls into the dishwasher when closing the door. The covered section opens automatically for the main wash.

NOTE: It is normal for the cover to open partially when dispensing detergent.



<sup>\*</sup>Cycle on some models only.

#### How much detergent to use

- The amount of detergent to use depends on the hardness of your water and the type of detergent. If you use too little, dishes won't be clean. If you use too much in soft water, glassware will etch.
- Different brands of dishwasher detergent have different amounts of phosphorus for softening water. If you have hard water and use low phosphorus content detergent (6.0% or less), you may need to use more detergent or use a detergent with a higher phosphorus content (8.7%).
- Find out your water's hardness by asking your local water department, water softener company, or county extension agent.

WATER TYPE	WHERE TO FILL
Hard 8+ grains per gallon 136+ parts per million	Top of 3rd step (3 tbs)
Medium 5-7 grains per gallon 85-119 parts per million	Top of 2nd step (2 tbs)
Soft 0-4 grains per gallon 0-68 parts per million	Top of 1st step (1 tbs)

Fill amounts shown are for standard powdered detergent. Amounts may vary if you use liquid or concentrated powdered detergent. Follow manufacturer's directions when using liquid dishwasher detergent or concentrated powdered detergent.

# Using the rinse agent dispenser

Keep the rinse agent dispenser filled with a liquid rinse agent. A rinse agent greatly improves dish drying by helping water flow off them during the last rinse. A rinse agent also keeps water from forming droplets and drying as spots or streaks.

A small amount of rinse agent automatically releases into the rinse water during the final rinse of each cycle. For best drying results, check dispenser periodically to see if it needs filling.

#### To check dispenser:

- Check center of Fill Indicator Cap. Clear means it needs filling.
   OR
- Remove Fill Indicator Cap. An "E" is visible when dispenser is empty.



Cap center clear when empty



"E" visible when empty

#### To fill dispenser:

The rinse agent dispenser holds 6 ounces (175 mL). Under normal conditions, this lasts about 3 months.

- 1. Open dishwasher door completely.
- 2. Remove Fill Indicator Cap.
- Add rinse agent. Fill to smallest opening in lower part of dispenser only. Overfilling may cause rinse agent to leak out. This will not harm the dishwasher, but could cause oversudsing.
- Clean up any spilled rinse agent with a damp cloth.
- Replace Fill Indicator Cap. Keep it closed tightly.

NOTE: You do not have to wait until the dispenser is empty before refilling, but do not overfill it. Your dishwasher is designed to use a liquid rinse agent. You do not need to use a solid or bar-type rinse agent.



OR

Keep dispenser filled for best drying results

# **Setting the Controls**

Operating your dishwasher's controls properly helps you obtain the best possible washing results. This section tells you how to select wash cycles and options.

### Selecting a wash cycle

For Series 400, 800, and 810 models: Turn Cycle Control Knob to desired cycle.

For Series 830 models: Press POTS & PANS button for that cycle. Or press either HEAT DRY or AIR DRY for NORMAL WASH and LIGHT WASH cycles. Press AIR DRY for RINSE & HOLD cycle. Turn Cycle Control Knob to desired cycle.

For Series 840 models: Press a cycle pad, then turn the Cycle Control Knob to desired cycle. NORMAL WASH, LIGHT WASH, and RINSE & HOLD all share the same cycle pad.

NOTE: Your model may have all or some of the cycles shown.

		A "•'	shows	what ea	ach cycl	e includ	les	CYCLE
CYCLE	WASH	RINSE	RINSE	MAIN WASH	RINSE	FINAL RINSE	DRY	TIME (Minutes)
POTS & PANS  Double wash for maximum cleaning of cooked-on or baked-on foods.	•	•	•	•	•	•	•	98*
NORMAL WASH  NORMAL WASH  Double wash for normal, everyday soiled loads. (The Energy Guide label is based on this cycle.)	•		•	•	•	•	•	90*
LIGHT WASH  Single wash for prerinsed or lightly soiled loads.			•	•	•	•	•	85*
RINSE & HOLD  For rinsing a few items to be washed one or more days later.  • Do not use detergent.  • Use AIR DRY option.					•	•		20

<sup>\*</sup>Cycle time includes dry time.

## Canceling a cycle

You can cancel a cycle at any time.

- Turn the Cycle Control Knob slowly clockwise until you hear water draining. Let the dishwasher drain completely.
- 2. Open the door.
- 3. Turn the Cycle Control Knob to OFF.

### Selecting cycle options

You can select a drying option after the dishwasher starts as long as the Cycle Control Knob has not reached DRY.

#### **HEAT DRY option**

If the HEAT DRY option is selected, air in the dishwasher is heated during the "dry" part of the cycle. For best results, use a liquid rinse agent.

For Series 830 models, the HEAT DRY option is automatically selected with the POTS & PANS cycle.

#### **AIR DRY option**

When AIR DRY is selected, the air in the dishwasher is not heated during the "dry" portion of a cycle. Using AIR DRY helps save energy, but dishes take longer to dry and some spotting can occur. Some items (such as plastics) may need towel drying. For best drying, use a liquid rinse agent.

**NOTE:** You must choose either AIR DRY or HEAT DRY for each wash cycle. Select AIR DRY when using the RINSE & HOLD cycle (Series 800, 810, 830, and 840 models).



Series 400, 800, and 810 models



OR

OR

Series 830 and 840 models



Series 400, 800, and 810 models



Series 830 and 840 models

### Changing a cycle setting

#### (on some models)

You can change a cycle setting anytime during any cycle.

- 1. Lift up the door latch to stop the cycle.
- 2. Turn the Cycle Control Knob clockwise to the desired cycle.
- 3. Check the detergent dispensers. They must be filled properly for the new cycle. NOTE: Turning the Cycle Control Knob can cause the covered section of the detergent dispenser to open and release the detergent. Check the covered section if setting NORMAL WASH or POTS & PANS cycle.
- 4. Close the door firmly until it latches. The dishwasher starts the new cycle.

## Adding an item during a cycle

#### (on some models)

You can add an additional item to the dishwasher anytime before the Cycle Control Knob reaches LIGHT WASH. Items added after the Cycle Control Knob reaches LIGHT WASH will only be rinsed.

- Lift up the door latch to stop the cycle.
   Wait for spraying action to stop before opening the door.
- 2. Open the door and add the item.
- Close the door, but do not latch it. Wait 30 seconds for the air in the dishwasher to warm up. Doing so reduces the amount of moisture in the vent when restarting a cycle.
- Close the door firmly until it latches. The dishwasher resumes the cycle.

# **Washing Special Items**

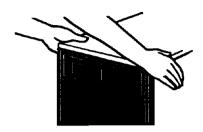
If you have any doubts about washing a particular item, check with the manufacturer to see if it is dishwasher safe.

MATERIAL	DISHWASHER SAFE?	EXCEPTIONS/SPECIAL INFORMATION
Aluminum	Yes	High water temperature and detergents can pit finish of anodized aluminum.
Bottles and Cans	No	Wash bottles and cans by hand. Labels attached with glue can loosen in your dishwasher. Loose labels and glue can clog spray arm or the pump and will reduce washing performance.
Cast Iron	No	Seasoning will be removed and iron will rust.
China/ Stoneware	Yes	Always check manufacturer's recommendations before washing. Antique, hand-painted, or overthe-glaze patterns may fade. Gold leaf can discolor or fade.
Crystal	Yes	Always check manufacturer's recommendations before washing. Some types of leaded crystal can etch with repeated washings.
Gold	No	Gold-colored flatware will discolor.
Glass	Yes	Milk glass will yellow with repeated dishwasher washing.
Hollow- Handle Knives	No	Handles of some knives are attached to the blade with adhesives which may loosen if washed in the dishwasher.
Pewter	No	High water temperatures and detergent can discolor or pit finish.
Disposable Plastics	No	Cannot withstand high water temperatures and detergents.
Plastics	Yes	Always check manufacturer's recommendations before washing. Plastics vary in their capacity to withstand high water temperatures and detergents. Load plastics in top rack only.
Stainless Steel	Yes	Run the RINSE & HOLD cycle if not washing immediately. Prolonged contact with food containing salt, vinegar, milk products, or fruit juice can damage finish.
Sterling Silver or Silver Plate	Yes	Run the RINSE & HOLD cycle if not washing immediately. Prolonged contact with food containing salt, acid, or sulfide (eggs, mayonnaise, and seafood) can damage finish.
Tin	No	Can rust.
Wooden Ware	No	Always check manufacturer's recommendations before washing. Untreated wood can warp, crack, or lose its finish.

# Connecting a Portable Dishwasher

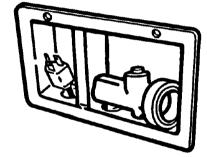
NOTE: A special adapter must be installed on the faucet before the dishwasher can be connected. Complete instructions and the adapter are packed with your dishwasher.

When moving your dishwasher make sure the door is latched. Hold the dishwasher at the top front corners.

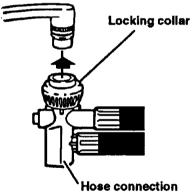


## **Connecting the dishwasher**

- 1. Run water at faucet until it is hot. Turn water off.
- Pull hoses out of their storage compartment on the back of the dishwasher.
   NOTE: Make sure the hoses are not kinked or twisted. Kinked hoses reduce washing performance.



- 3. Pull down on the locking collar while lifting the hose connector onto the faucet adapter.
- 4. When the connector snaps into place, release the locking collar.
- 5. Turn the hot water on slowly until it is all the way on.
- 6. Plug in power supply cord.
- See page 6 for instructions on how to start the dishwasher.



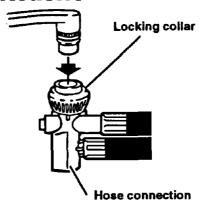
# **Drawing water when dishwasher is connected**

You can draw water from the faucet while the dishwasher is connected. Do not draw water while the dishwasher is filling or while water is being pumped out. (This helps prevent a low fill when dishwasher is filling or mixing drain water with fresh water.) Press the red button on the hose connector to draw water from faucet. (The faucet is set on hot. Adjust faucet for the water temperature you want.)

NOTE: Turn hot water back on after you draw water from faucet. Turn off cold water.

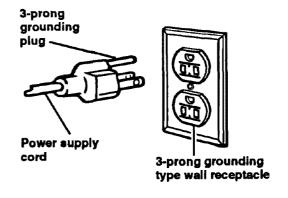
### **Disconnecting the dishwasher**

- 1. Turn hot water off. (This can be done after the last rinse.)
- Press the red button on the connector to release the water pressure.
- Lift slightly on the hose connector while pulling down the locking collar. Pull down on the connector.
- Empty any remaining water from the connector by turning the connector upside down.
- 5. Unplug power supply cord and return to storage compartment.
- 6. Return hoses to storage compartment.



### **Electrical connection**

A power supply of 120 volts, 60Hz AC, 15 or 20 amps, is required. For your personal safety, this appliance must be grounded. This appliance is equipped with a power supply cord having a 3-prong grounding plug. To minimize possible shock hazard it must be plugged into a mating 3-prong grounding type wall receptacle, grounded in accordance with the National Electrical Code and local codes and ordinances. If a mating wall receptacle is not available, it is the responsibility and obligation of the customer to have a properly grounded 3-prong wall receptacle installed by a qualified electrician.



#### AWARNING

#### Fire Hazard

An extension cord should not be used with this appliance.

Do not, under any circumstances, remove the power supply cord ground prong.

Such use may result in a fire, electrical shock, or other personal injury.

# Converting a portable dishwasher to a built-in

Your Whirlpool Portable Dishwasher can be converted to a built-in (undercounter) model by using conversion kit No. 4317856. The kit

is available at your Whirlpool dealer or authorized Whirlpool service company. Instructions are included with the kit.

# **Caring for Your Dishwasher**

Your new dishwasher is designed to give you many years of dependable service. There are a few things you can do to maintain your dishwasher properly. This section tells you how to clean and care for your dishwasher. Refer to "Solution chart" on pages 21-23 for special cleaning problems. See Installation Instructions for information on storing your dishwasher and for cleaning the drain air gap.

#### AWARNING

#### **Personal Injury Hazard**

Before cleaning interior, wait at least 20 minutes after a cycle for the heating element to cool down.

Failure to do so could result in burns.

# Caring for simulated wood top

#### (on portable models)

The simulated wood top can be used as a utility work surface for most kitchen jobs. It is stronger and more easily cleaned than genuine wood. The top can be used as a cutting board. Knife marks will be visible, but will not seriously damage top. Hot items from the oven can be placed on the top. Clean top with warm, soapy water. For dried-on foods, use a scouring pad.

# Cleaning the exterior

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



### Cleaning the interior

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

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

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



NOTE: Follow the "Removing spots and film" procedure on page 23 to clean your dishwasher with white vinegar. Remember, this procedure is intended for occasional use only. Vinegar is an acid. Excessive use can damage your dishwasher.

### **Overfill Protector**

The Overfill Protector (in the front right corner of the dishwasher tub) keeps the dishwasher from overfilling. It must be in place for the dishwasher to operate.

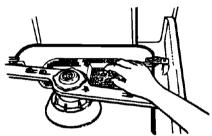
Check under the float for objects that may keep the protector from moving up or down.



## Cleaning the filter screen

The filter system requires periodic cleaning as needed. To clean screen:

- Unload and slide the bottom rack forward. (Remove bottom rack if necessary to reach filter screen.)
- 2. Remove collected particles from the screen with your fingers or paper towel.
- 3. Return the bottom rack to original position.



# **Saving Energy**

Saving energy is important and helps you save money. This section gives you tips on the best ways to save energy with your dishwasher.

### Loading tips

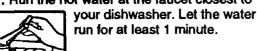
- Wash full loads. Running a half-filled dishwasher uses the same amount of electricity and hot water as a fully loaded machine.
- Load correctly for best washing results. Incorrect loading may cause poor washing and the need to rewash all or part of load.
- Do not prerinse normally soiled dishes. Select the correct cycle for the load and use the recommended amount of detergent.

## Cycle and option tips

- If your model has the LIGHT WASH cycle, use it whenever possible. The cycle uses less hot water and energy than the NORMAL WASH cycle.
- Run your dishwasher during off-peak hours. Local utilities recommend avoiding heavy usage of energy at certain times of day.
- Use the AIR DRY option whenever possible. Allow longer drying times (overnight). Use a rinse agent to improve drying.
- Loads may not wash or dry as well if the water temperature is too low. For best dishwashing results, water must be at least 120°F (49°C) as it enters the dishwasher.

#### To check water temperature:

1. Run the hot water at the faucet closest to



2. Hold a candy or meat thermometer in the



running stream of water. If water temperature at the faucet is below 120°F (49°C), have a qualified person raise the water heater's thermostat setting.

# Solving Common Dishwashing Problems

A convenient checklist for handling minor performance problems. Go over this list before calling for service. If you are unable to solve your dishwasher's problem, turn to page 25 for service information.

### **Solution chart**

PROBLEM	CAUSE	SOLUTION
Food soil left	Improper loading	Follow loading instructions on pages 7-9.
on dishes	Water temperature too low	If needed, turn home water heater up to ensure water entering dishwasher is 120°F (49°C) minimum. See "To check water temperature" on page 20.
	Use of incorrect, too little, or ineffective detergent	Use recommended dishwasher detergents only. Follow recommendations on page 10 for amounts. Never use less than 1 tablespoon per load. Detergent must be fresh to be effective. Always store detergent tightly-closed in a cool, dry place.
	Detergent cakes in dispenser	Use fresh detergent only. Do not allow detergent to sit for several hours in a wet dispenser. Check dispenser for caked detergent. Clean dispenser when caked detergent is present.
	Insufficient fill due to low water pressure	Home water pressure should be 20 to 120 pounds per square inch (psi) for proper dishwasher fill. A booster pump on the water supply may be necessary if pressure is too low.
	Slowdown of wash arm due to high suds	Never use soap or laundry detergents. Use recommended dishwasher detergents only.
Spotting and filming	Hard water or high mineral content in water	Use rinse agent to help prevent spotting and filming. See page 11. To remove hard water film, see "Removing spots and film" on page 23.
	Water temperature too low	If needed, turn home water heater up to ensure water entering dishwasher is 120°F (49°C) minimum. See "To check water temperature" on page 20.
	Use of incorrect detergents	Use recommended dishwasher detergents only.

continued on next page

# SOLVING COMMON DISHWASHING PROBLEMS

PROBLEM	CAUSE	SOLUTION
Spotting and filming (continued)	Incorrect amount of detergent	Follow recommendations on page 10 for amount. Heavy soil and/or hard water generally require extra detergent.
	Use of ineffective detergents	Use fresh detergent. Store detergent tightly- closed in a cool, dry place. Discard lumpy detergent.
	Insufficient fill due to low water pressure	Home water pressure should be 20 to 120 psi for proper dishwasher fill. A booster pump on the water supply may be necessary if pressure is too low.
Dishes do not dry completely	Dishes do not drain properly	Dishes must have proper water drainage. Do not overload. Follow instructions for loading dishwasher on pages 7-9. Use a liquid rinse agent to speed draining.
	Plastics	Some plastics, due to material, may need to be towel dried.
Silica film or etching (silica film is a white iridescent deposit; etching is a cloudy film)	Water chemical reaction with certain types of glassware — usually caused by some combination of soft or softened water, alkaline washing solutions, insufficient rinsing, overloading the dishwasher, and heat of drying.	It may not be possible to prevent problem, except by hand washing. To slow this process, use a minimum amount of detergent but not less than 1 tablespoon per load. Use a liquid rinse agent and underload the dishwasher to allow thorough rinsing. Silica film and etching are permanent and cannot be removed. Use the AIR DRY option.
Black or gray marks on dishes	Aluminum items touching dishes	Load aluminum items so that they will not rub against dishes during washing. Do not wash throwaway aluminum items in the dishwasher because they may break down and cause marking. Remove aluminum markings by using a mild abrasive cleanser.
White spots on cookware with non-stick finish	Seasoning removed by dishwasher detergents	Reseason cookware after dishwasher washing.

#### **SOLVING COMMON DISHWASHING PROBLEMS**

PROBLEM	CAUSE	SOLUTION
Brown stains on dishes and dishwasher interior	High iron content in water supply	Remove by washing dishes (after food soil has been removed) with 1 teaspoon to 1 table-spoon of citric acid crystals added to covered section of detergent dispenser. Do not use detergent. Follow with a LIGHT WASH cycle and detergent. If treatment is needed more often than every other month, we recommend installation of an iron removal unit.
Orange stains on dishwasher interior	Large amounts of tomato-based foods on dishes placed in the dishwasher	Stains will not affect dishwasher performance and can gradually fade over time. Regular use of RINSE & HOLD reduces the chance of staining. If air in the dishwasher is heated during the "dry" portion of the cycle, stains may fade slower than if the AIR DRY option is selected.
Odor in the dishwasher	Dishes only washed every two to three days	Run a RINSE & HOLD cycle at least once or twice a day until a full load is accumulated.
Chipping of dishes	Improper loading	Load dishes and glasses so they are stable and do not strike together from washing action. Moving racks in and out slowly will also minimize chipping.
	<u> </u>	NOTE: Some types of china and glassware are too delicate for automatic dishwashing and should be hand washed; for example: antiques, feather-edged crystal, and similar items.

# Removing spots and film

Keep the rinse agent dispenser filled with a

liquid rinse agent. A rinse agent prevents water from forming droplets and drying as spots or streaks.

To remove spots and film on dishes and glasses, or hard water film/lime buildup on the interior of the dishwasher, you may use white vinegar with the following procedure:

 Load clean dishes and glasses in dishwasher (see pages 7-9). Do not load silverware or other metals in the dishwasher.

- 2. Put 2 cups of household vinegar (in a glass or dishwasher safe measuring cup) standing upright in the bottom rack.
- 3. Close and latch the door.
- Select the NORMAL WASH cycle and AIR DRY option. Do not use detergent. Allow the dishwasher to complete the entire cycle.

NOTE: This cleaning procedure is intended for occasional use only. Vinegar is an acid. Excessive use may damage your dishwasher.

# **Troubleshooting**

Before calling for assistance please check the chart below for problems you can fix. It could save you the cost of a service call.

# **Dishwasher problems**

PROBLEM	CHECK THE FOLLOWING
Dishwasher does	Is the door tightly closed and securely latched?
not run or stops during a cycle	Has the cycle been set correctly? See pages 5 and 12-13.
<b>3</b> - <b>7</b> - <b>1</b>	Has a household fuse blown or circuit breaker tripped?
	If the motor stopped because of an overload, it will automatically reset itself within a few minutes. If it does not start, call for service.
	Is the water supply turned on?
	Is the dishwasher wired into a live circuit with the proper voltage?
Dishwasher will not fill	Is the Overfill Protector stuck in "up" position? Overfill Protector should move up and down freely. Press down to release. See page 19.
Water remains	Allow cycle to finish. A small amount of water remaining is normal.
in dishwasher	Check the drain air gap (if installed). If it is clogged, follow the manufacturer's cleaning instructions.
Detergent remains	Has the cycle completed?
in covered section of dispenser	Is the detergent fresh and dry without lumps? See page 10.
•	Is the bottom rack in backwards? The rack bumpers must face the dishwasher door.
Dishes not as dry as you expected	Is the rinse agent dispenser empty? Using a rinse agent greatly improves drying. See page 11.
	Do not use AIR DRY option on the next load. See page 13.
White residue appears on front	Is too much detergent being used? See page 10 for recommended amounts of detergent.
of access panel	Some liquid detergents develop excess foam and residue on panel. Try a different brand to reduce foaming and eliminate buildup.
Dishwasher will not close	Is the bottom rack in backwards? The rack bumpers must face the dishwasher door.

# Requesting Assistance or Service

Before calling for assistance or service, please check "Troubleshooting" on page 24. It may save you the cost of a service call. If you still need help, follow the instructions below.

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

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

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 North M-63
Benton Harbor, MI 49022-2692

Please include a daytime phone number in your correspondence.

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

Whirlpool has a nationwide network of



authorized service companies. Whirlpool service technicians are trained to fulfill the product warranty and provide afterwarranty 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 1) or look in your telephone directory Yellow Pages under:

- •APPLIANCE-HOUSEHOLD-MAJOR, SERVICE & REPAIR
- Sea: Whiripool Appliances or Authorized Whiripool Service (Example: XYZ Service Co.)
- •WASHING MACHINES & DRYERS, SERVICE & REPAIR
- See: Whiripool Appliances or Authorized Whiripool Service (Example: XYZ Service Co.)

# 3. If you need FSP<sup>e</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 2 or call the Whirlpool Consumer Assistance Center number in Step 1.

# 4. If you are not satisfied with how the problem was solved ...

- Contact the Major Appliance Consumer Action Program (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 Program 20 North Wacker Drive Chicago, IL 60606

MACAP will in turn inform us of your action.

#### \*When asking for help or service:

Please provide a detailed description of the problem, your appliance's complete model and serial numbers, and the purchase date. (See page 2.) This information will help us respond properly to your request.

# **Index**

This index is alphabetical. Look for the word or phrase you are interested in, then look for the page number.

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# WHIRLPOOL® Dishwasher Warranty

LENGTH OF WARRANTY	WHIRLPOOL WILL PAY FOR
FULL ONE-YEAR WARRANTY From Date of Purchase	FSP <sup>e</sup> replacement parts and repair labor to correct defects in materials or workmanship. Service must be provided by an authorized Whirlpool service company.
FULL TWENTY-YEAR WARRANTY 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. Service must be provided by an authorized Whirlpool service company.

#### WHIRLPOOL WILL NOT PAY FOR

#### A. Service calls to:

- 1. Correct the installation of the dishwasher.
- 2. Instruct you how to use the dishwasher.
- 3. Replace house fuses or correct house wiring or plumbing.
- B. Repairs when dishwasher is used in other than normal, single-family household use.
- C. Pickup and delivery. This product is designed to be repaired in the home.
- **D.** Damage to dishwasher caused by accident, misuse, fire, flood, acts of God, or use of products not approved by Whirlpool.
- **E.** Repairs to parts or systems caused by unauthorized modifications made to the appliance.

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WHIRLPOOL CORPORATION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSE-QUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion or limitation 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 dealer.

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

