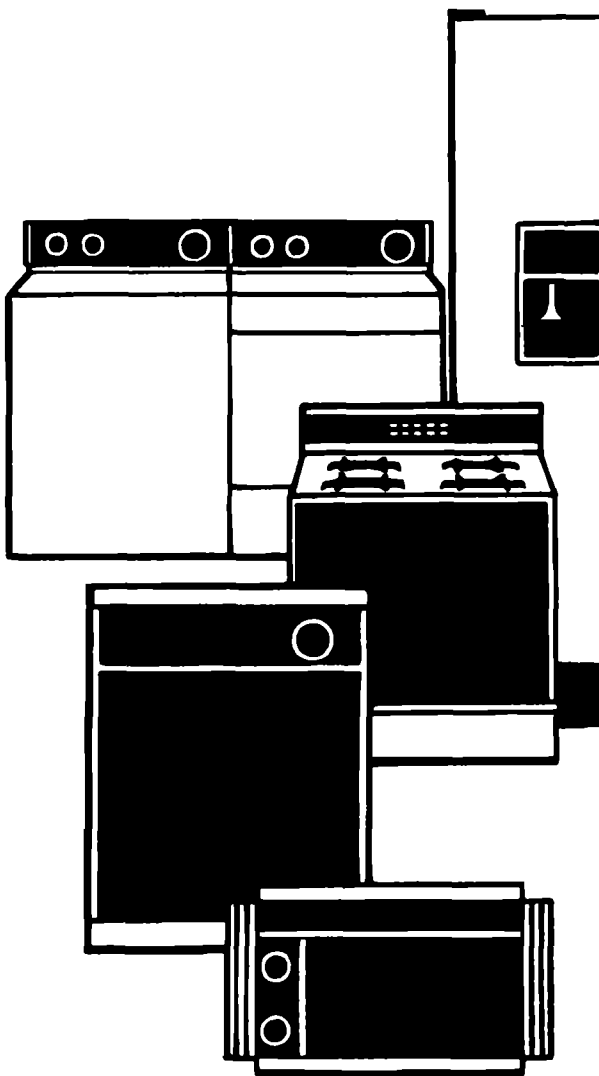




Use And Care

GUIDE



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1-800-44-ROPER
Call us with questions or comments.

UNDERCOUNTER DISHWASHERS

PART NO. 3376809

3/95

A Note to You

Thank you for buying a Roper® appliance.

Roper appliances give you all the functionality of name brand appliances at a value price. 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.

Model Number _____

Serial Number _____

Purchase Date _____

Dealer Name _____

Dealer Address _____

Dealer Phone _____

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

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.*
- 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 16.

* See Installation Instructions for complete information.

**Our toll-free number is
available 24 hours a day.**

1-800-447-6737

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.

WARNING

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

IMPORTANT SAFETY INSTRUCTIONS

WARNING

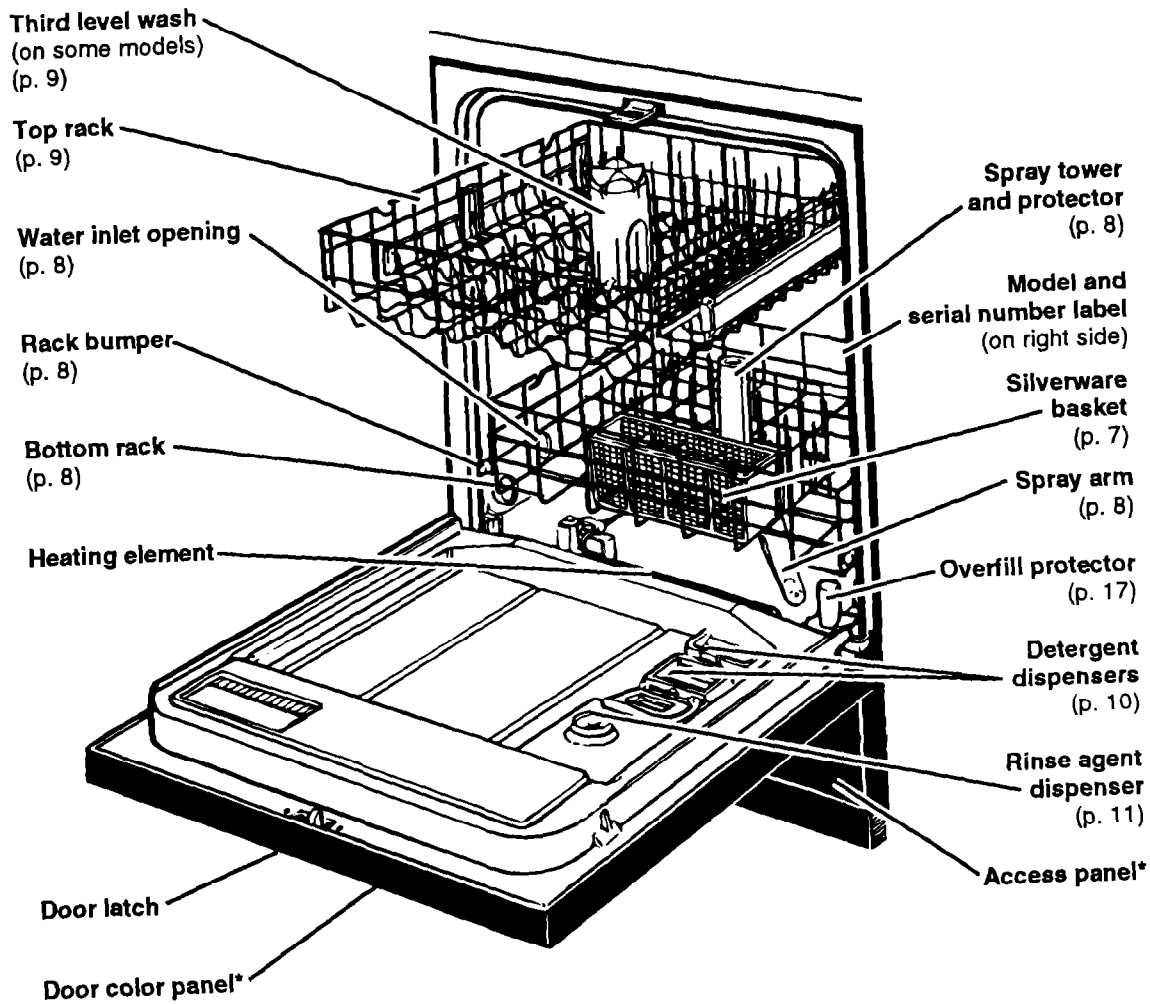
To reduce the risk of fire, electrical shock, or injury when using your dishwasher, follow basic precautions including the following:

- Read all instructions before using the dishwasher.
- Use your dishwasher only for the uses described in this manual.
- **DISHWASHER MUST BE ELECTRICALLY 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** –

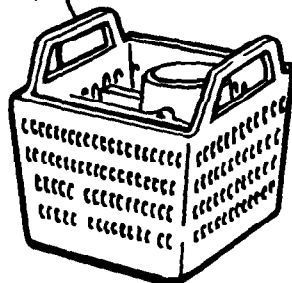
Parts and Features

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.

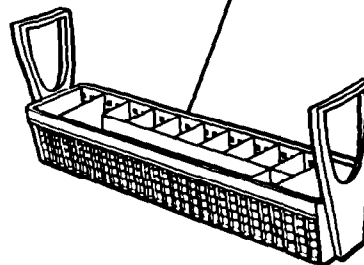


*See Installation Instructions for more information.

Silverware basket (p. 7)
(on some models)

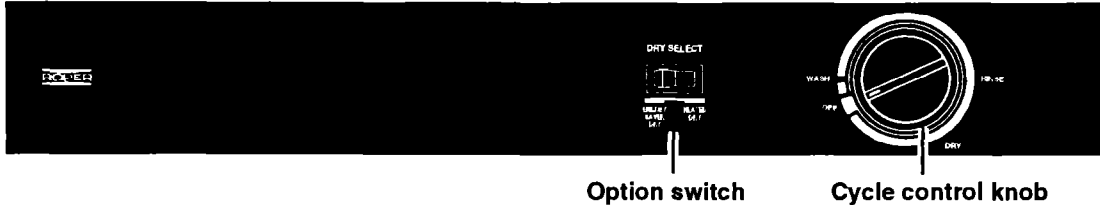


Silverware basket (p. 7)
(on some models)



PARTS AND FEATURES

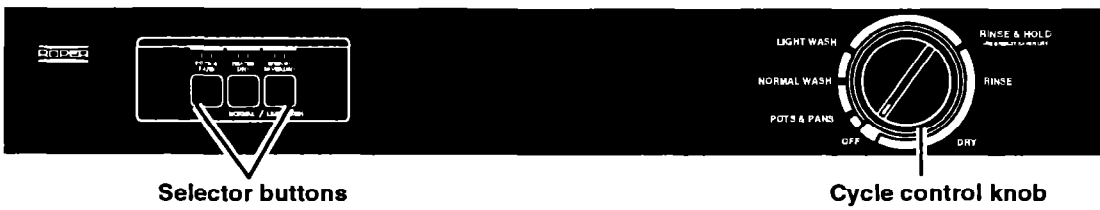
Models with rocker switch (one wash cycle)



Models with rocker switch (three wash cycles)



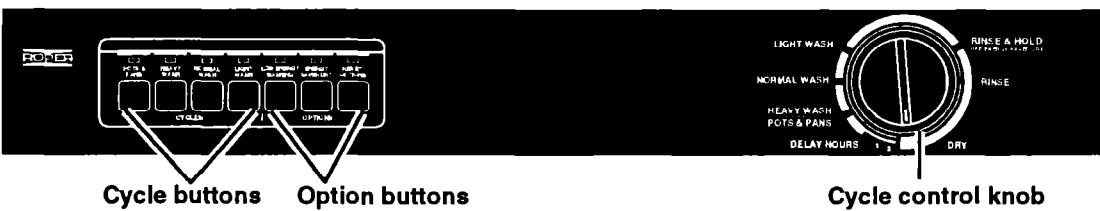
Models with three buttons



Models with five buttons



Models with seven buttons



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.



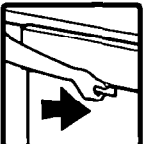
3. Add detergent. See page 10.



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



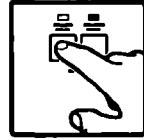
5. Close door firmly until it latches.



6. Run hot water at the sink nearest the dishwasher until water is hot. Turn water off. (See page 18.)



7. Select a cycle. (See page 12.) For



rocker switch models: See step 8. **For 3-button models:** Press POTS & PANS button for that cycle **OR For models with more than 3 buttons:** Push a

Cycle button for the desired cycle. Use any Cycle button with the RINSE & HOLD cycle.

8. Select a drying option. For models with buttons, the indicator above the button shows red when the option is selected.

NOTES:

- Select ENERGY SAVER DRY for the RINSE & HOLD cycle (on some models).
- For models with 3 buttons, the HEATED DRY option is automatically selected with the POTS & PANS cycle.



9. 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 (if available) 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

⚠ WARNING

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.

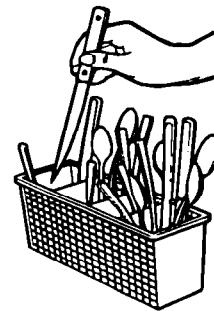
NOTE: The loaded basket must be placed in the center front (Style 1 basket fits over the spray tower) of the bottom rack for proper washing.

- Put small items (baby bottle caps, jar lids, etc.) in any section.
- 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.
- 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.

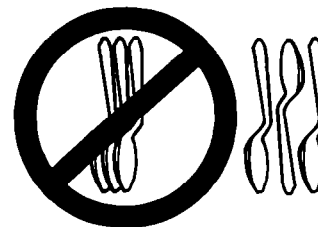
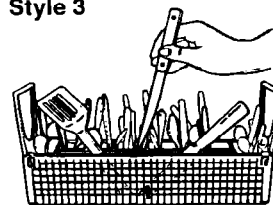
Style 1



Style 2



Style 3



LOADING YOUR DISHWASHER

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.
- Secure heavily soiled cookware face down in rack.
- Do not stack or overlap dishes. Water spray must reach all soiled surfaces for best results.

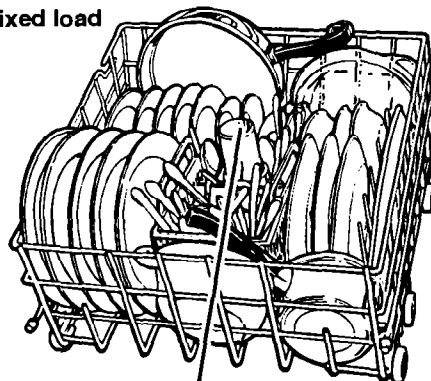
Utensil load

- 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:

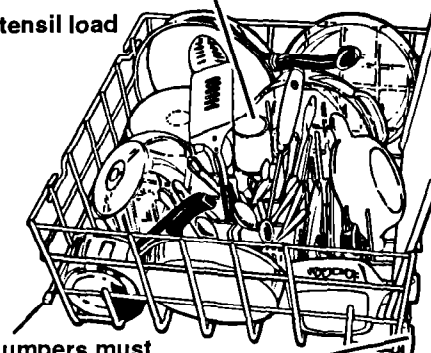
- Do not load glasses, cups, or plastic items in the bottom rack.
- Do not load items between the bottom rack and the dishwasher tub. This can block the water inlet opening.
- If you have removed the bottom rack for unloading or cleaning, replace it with bumpers in front.

Mixed load



Do not cover spray tower

Utensil load



Bumpers must face dishwasher door

Loading the top rack

Load the top rack with cups, glasses, and smaller items. Do not cover the third level wash 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

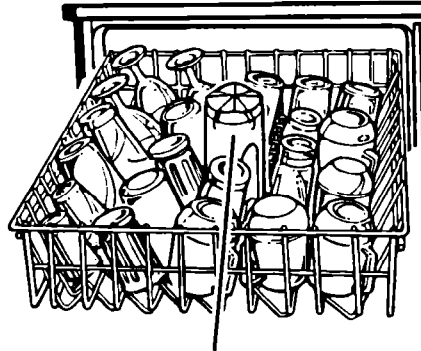
- Small bowls, pans, and other utensils can be placed in the top rack.
- Load plastic items in the top rack only. Plastic items may melt in the bottom rack.
- Wash only plastic items marked “dishwasher safe.”
- Load plastic items so the force of the spray does not move them during the cycle.

Extra-capacity fold-down shelves

(on some models)

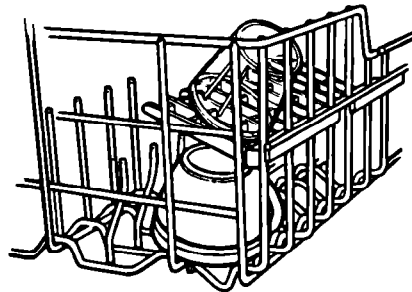
Extra shelves on the right and left side of the top rack can be folded down over short items (cups, juice glasses, cereal bowls, etc.) to hold extra items.

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.

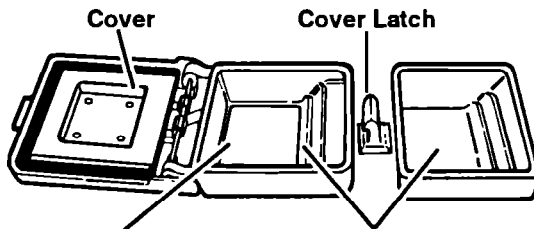
Using the detergent dispenser

- 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 cover to open partially when dispensing detergent.






Use only covered section for:
- LIGHT WASH*

Use both sections for:
- WASH or
- NORMAL WASH
- POTS & PANS*
- HEAVY WASH*

* 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.**

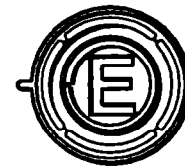
To check dispenser:

- 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

OR



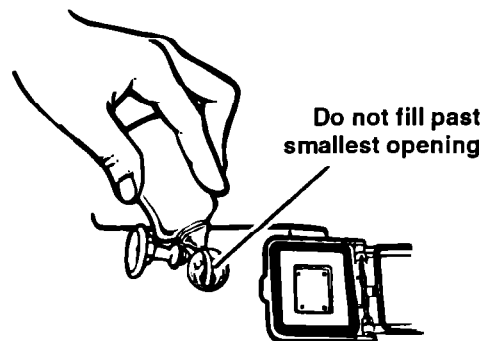
"E" visible when empty

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.
3. 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.
4. Clean up any spilled rinse agent with a damp cloth.
5. 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.



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 3-button models: Press Pots & Pans button for that cycle **OR** press either HEATED DRY or ENERGY SAVER DRY for NORMAL WASH and LIGHT WASH cycles, or ENERGY SAVER DRY for RINSE & HOLD cycle. Turn Cycle Control Knob to desired cycle.

For models with more than 3 buttons: Push a Cycle button for the desired cycle. Use any Cycle button with the RINSE & HOLD cycle. Turn Cycle Control Knob to desired cycle. **For models with rocker switches:** Turn Cycle Control Knob to desired cycle.

CYCLE	A "*" shows what each cycle includes							CYCLE TIME (Minutes)
	WASH	RINSE	RINSE	MAIN WASH	RINSE	FINAL RINSE	DRY	
POTS & PANS  Double wash for maximum cleaning of cooked-on or baked-on foods. For models with 3 buttons, HEAT DRY is automatically selected during this cycle.	•	•	•	•	•	•	•	98*
HEAVY WASH  Double wash for heavily soiled loads.	•	•	•	•	•	•	•	98*
WASH OR NORMAL WASH  Double wash for normal, everyday soiled loads. (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. <ul style="list-style-type: none"> • Do not use detergent. • Use ENERGY SAVER DRY option. 					•	•		20

* Cycle time includes dry time.

NOTE: Your model may not have all cycles.

Canceling a cycle

You can cancel a cycle at any time.

1. 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 an option after the dishwasher starts as long as the cycle has not passed the point that the option is used. For example, you can select ENERGY SAVER DRY any time before the Cycle Control Knob reaches DRY.

HEATED DRY option

If the HEATED 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 and select HEATED DRY.**

NOTE: For models with 7 buttons: Select RESET OPTIONS if the ENERGY SAVER DRY option was selected for the previous cycle.



Models with
Rocker Switch

OR



Models with
3 or 5
buttons

OR



Models
with 7
buttons

ENERGY SAVER DRY option

If the ENERGY SAVER DRY option is selected, air in the dishwasher is not heated during the dry part of the cycle. Using this option helps save energy, but dishes take longer to dry (overnight) and some water spotting may result. Some items (such as plastics) may need towel drying. For best results, use a liquid rinse agent.



Models with
Rocker Switch

OR



Models with
buttons

LOW ENERGY WASHING option

(on some models)

When the LOW ENERGY WASHING option is selected, water heating is reduced during the main wash and final rinse. This will reduce the amount of electricity needed to run the dishwasher. However, dishes may not wash as well.



SETTING THE CONTROLS

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 the cycle uses detergent in both sections.
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.

1. 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.
3. 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.
4. Close the door firmly until it latches. The dishwasher resumes the cycle.

Using delay wash

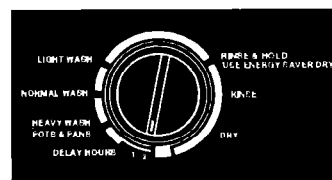
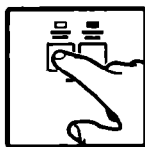
(on some models)

You can set the dishwasher to start a cycle 1 or 2 hours later.

1. Push desired Cycle button.
2. Push desired Option button(s).
3. Turn Cycle Control Knob clockwise to the number of hours you want the dishwasher to delay before the selected cycle starts.
4. Close and latch the door.

NOTE:

- You can add items while time is counting down. Close and latch the door. The Cycle Control Knob will not advance if the door is unlatched.
- RINSE & HOLD and LIGHT WASH cycles cannot be delayed.



Washing Special Items

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

NOTE: It is the user's responsibility to determine if an item should be washed in a dishwasher.

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 arms 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 over-the-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.

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 19-21 for special cleaning problems. See Installation Instructions for information on storing your dishwasher and for cleaning the drain air gap.

⚠ WARNING

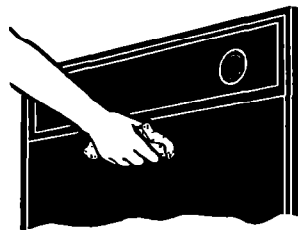
Personal Injury Hazard

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.

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:

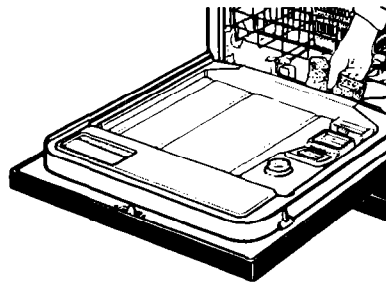
- Apply powdered dishwasher detergent to a damp sponge to make a paste.

OR

- 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.

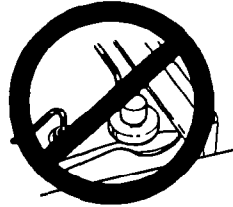
NOTE: Follow the "Removing spots and film" procedure on page 21 to clean your dishwasher with white vinegar. Remember, this procedure is intended for occasional use only. Vinegar is an acid. Excessive use can damage your dishwasher.



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.

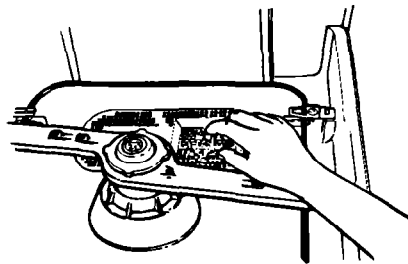
Check under the float for objects that may keep the protector from moving up or down.



Cleaning the filter screen

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

1. 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

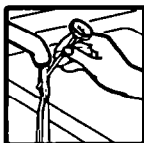
- If your model has the LIGHT WASH cycle, use it whenever possible. The cycle uses less hot water and energy than the NORMAL WASH Cycle.
- Run your dishwasher during off-peak hours. Local utilities recommend avoiding heavy usage of energy at certain times of day.
- Use the ENERGY SAVER DRY option whenever 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 your dishwasher. Let the water run for at least 1 minute.



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 23 for service information.

Solution chart

PROBLEM	CAUSE	SOLUTION
Food soil left on dishes	Improper loading	Follow loading instructions on pages 7-9.
	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 18.
	Use of incorrect, too little, or ineffective detergent	Use recommended dishwasher detergents only. Follow recommendations on page 10 for amounts. Never use less than one 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.
	Pump or spray arm clogged by labels from bottle and cans	Remove labels before washing or wash by hand. See page 15. Clean filter screen. See page 17.
	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 21.
	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 18.
	Use of incorrect detergents	Use recommended dishwasher detergents only.

SOLVING COMMON DISHWASHING PROBLEMS

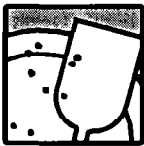
PROBLEM	CAUSE	SOLUTION
Spotting and filming (continued)	Incorrect amount of detergent	Follow recommendations on page 10 for amount. Heavy soil and/or hard water generally require extra detergent.
	Use of ineffective detergents	Use fresh detergent. Store detergent tightly-closed in a cool, dry place. 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 one 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 ENERGY SAVER 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 tablespoon of citric acid crystals added to covered section of detergent dispenser. Do not use detergent. Follow with a LIGHT WASH cycle and detergent. (For models with one wash cycle, use WASH.) 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 (on some models) 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 ENERGY SAVER DRY option is selected.
Odor in the dishwasher	Dishes only washed every two to three days	Run a RINSE & HOLD (on some models) 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. 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:

1. 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.
4. Select the WASH or NORMAL WASH cycle and ENERGY SAVER 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 not run or stops during a cycle	<p>Is the door tightly closed and securely latched?</p> <p>Has the cycle been set correctly? See pages 5 and 12.</p> <p>Has a household fuse or circuit breaker blown or tripped?</p> <p>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.</p> <p>Is the water supply turned on?</p> <p>Is the dishwasher wired into a live circuit with the proper voltage?</p>
Dishwasher will not fill	<p>Is overfill protector stuck in "up" position? Overfill protector should move up and down freely. Press down to release. See page 17.</p>
Water remains in dishwasher	<p>Allow cycle to finish. A small amount of water remaining is normal.</p> <p>Check the drain air gap (if installed). If it is clogged, follow the manufacturer's cleaning instructions.</p>
Detergent remains in covered section of dispenser	<p>Has the cycle completed?</p> <p>Is the detergent fresh and dry without lumps? See page 10.</p> <p>Is the bottom rack in backwards? The rack bumpers must face the dishwasher door.</p>
Dishes not as dry as you expected	<p>Is the rinse agent dispenser empty? Using a rinse agent greatly improves drying. See page 11.</p> <p>Do not use ENERGY SAVER DRY option. See page 13.</p>
White residue appears on front of access panel	<p>Is too much detergent being used? See page 10 for recommended amounts of detergent.</p> <p>Some liquid detergents develop excess foam and residue on panel. Try a different brand to reduce foaming and eliminate buildup.</p>
Dishwasher will not close	<p>Is the bottom rack in backwards? The rack bumpers must face the dishwasher door.</p>

Requesting Assistance or Service

Before calling for assistance or service, please check "Troubleshooting" on page 22. 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 our toll-free telephone number. Dial
 toll-free from anywhere in the U.S.A.:

1-800-44-ROPER

(1-800-447-6737)

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


Roper Brand Appliances

2000 North M-63

Benton Harbor, MI 49022-2692

Please include a daytime phone number in your correspondence.

2. If you need service* ...

Contact the dealer from whom you purchased the appliance or the authorized servicer in your area. For help finding an authorized servicer in your area, call our toll-free telephone number in Step 1.


3. If you need FSP® 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 Roper® 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 Roper toll-free 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 Roper 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.

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ROPER®

Dishwasher Warranty

LENGTH OF WARRANTY	WE WILL PAY FOR
FULL ONE-YEAR WARRANTY From Date of Purchase	FSP® replacement parts and repair labor to correct defects in materials or workmanship. Service must be provided by an authorized Roper service company.
FULL TEN-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 Roper service company.
WHIRLPOOL WILL NOT PAY FOR	
<p>A. Service calls to:</p> <ol style="list-style-type: none"> 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. <p>B. Repairs when dishwasher is used in other than normal, single-family household use.</p> <p>C. Pickup and delivery. This product is designed to be repaired in the home.</p> <p>D. Damage to dishwasher caused by accident, misuse, fire, flood, acts of God, or use of products not approved by Whirlpool.</p> <p>E. Repairs to parts or systems caused by unauthorized modifications made to the appliance.</p>	

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This Roper appliance is warranted by Whirlpool Corporation. Under no circumstances shall it be liable under this warranty for incidental or consequential damages. Some states do not allow the limitation or exclusion 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 also apply. For details, please contact your authorized Roper distributor or military exchange.

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 toll-free number, **1-800-44-ROPER (1-800-447-6737)**, from anywhere in the U.S.A.



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10% post-consumer waste
50% recovered materials

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