

Undercounter Dishwashers Use and Care Guide

ROPER

Appliances

WU3000V

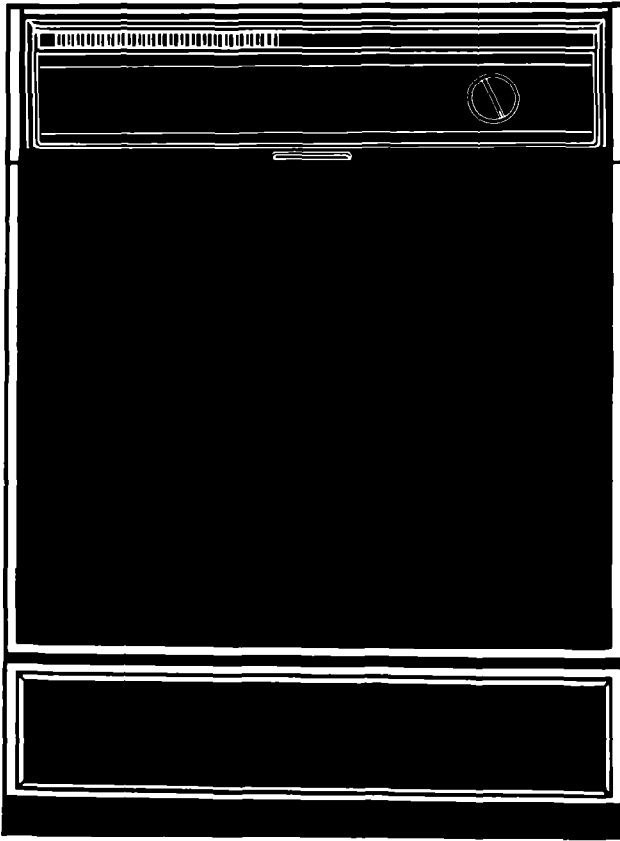
WU3006V

WU4400V

WU4406V

WU5650V

WU6850V



Thank you for choosing a Roper appliance.

This Use and Care Guide will help you operate and maintain your new, quality-built Roper undercounter dishwasher. Keep this Use and Care Guide in a safe place for future reference.

Complete and mail the Product Registration Card.

This card enters your warranty into our warranty system that insures efficient claim processing, can be used as a proof of purchase for insurance claims and helps Roper to contact you immediately in the unlikely event of a product-safety recall.

Please remember...

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.

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Important Safety Instructions

⚠ WARNING

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

1. Read all instructions before using the dishwasher.
2. Properly connect to electricity and water.
3. **DISHWASHER MUST BE ELECTRICALLY GROUNDED.** Read the Installation Instructions for details.
4. 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.
5. When discarding an old dishwasher, always remove the door to prevent accidental entrapment.
6. **REMEMBER**, use your dishwasher only for the job it was designed to do.
7. Store dishwasher detergent in a cool, dry place **WHERE CHILDREN CAN'T REACH IT.**
8. Use **ONLY** detergents and rinse aids recommended for use in a dishwasher.
9. Locate sharp items and knives so that they are not likely to damage door seal or cut the user.
10. **DO NOT** let children play in or on the dishwasher.
11. **DO NOT** reach into the area below the bottom rack until the Heating Element has cooled for at least 20 minutes.
12. **DO NOT** wash plastic items unless marked "Dishwasher Safe" or the equivalent. If not marked, check manufacturer's recommendations.
13. **DO NOT** use your dishwasher unless all enclosure panels are properly in place.
14. **DO NOT** sit on, stand on or abuse the dishwasher door or dish racks.
15. **DO NOT** tamper with controls.
16. 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.
17. Disconnect electrical power to the dishwasher before attempting to service.

SAVE THESE INSTRUCTIONS

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 Energy Saver Wash Cycle, if your dishwasher has one, whenever possible. It uses less hot water and energy than other wash cycles.
3. Air dry dishes when you don't need a rapid drying cycle. Allow longer drying times (overnight).
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. Don't 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.
7. Kitchen cleanup can be done quickly and efficiently through the use of your dishwasher. Most appliance parts that can fit in the dishwasher can be cleaned by it. Burned-on soil, however, should be cleaned by hand.

Using Your Dishwasher

Models WU6850V (shown)

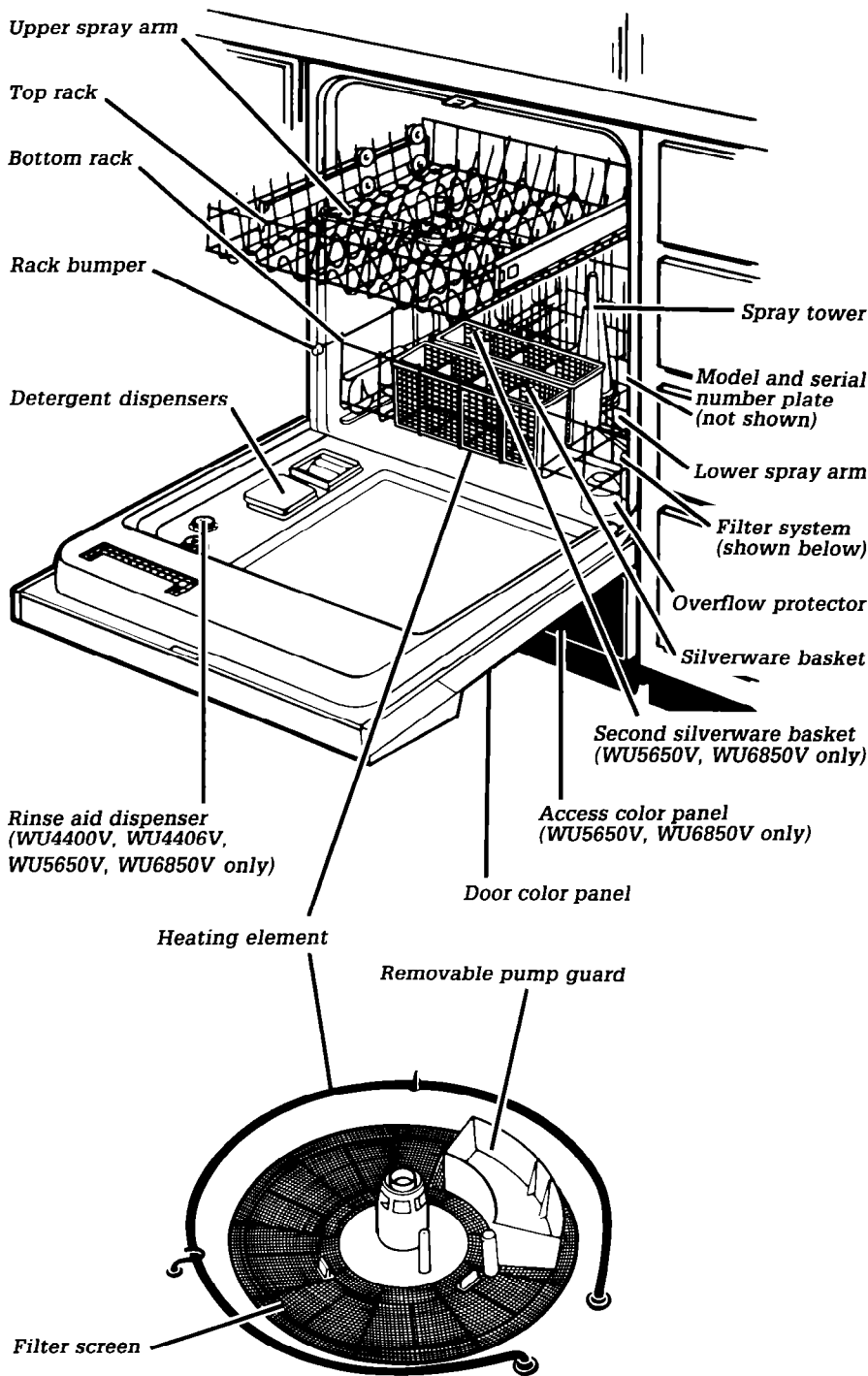
WU5650V

WU4406V

WU4400V

WU3006V

WU3000V



Before starting dishwasher

1. Read "Important Safety Instructions" on page 2 before starting your dishwasher.
2. Properly load the top and bottom racks, and silverware basket. See page 6.
3. Spin the upper and lower spray arms to make sure nothing will stop them from turning freely.
4. Add detergent.
5. Check rinse aid dispenser (models WU4400V, WU4406V, WU5650V, WU6850V only).
6. Push door firmly when closing and it will automatically latch.
7. Run hot water at sink nearest dishwasher until it is hot. Turn it off.

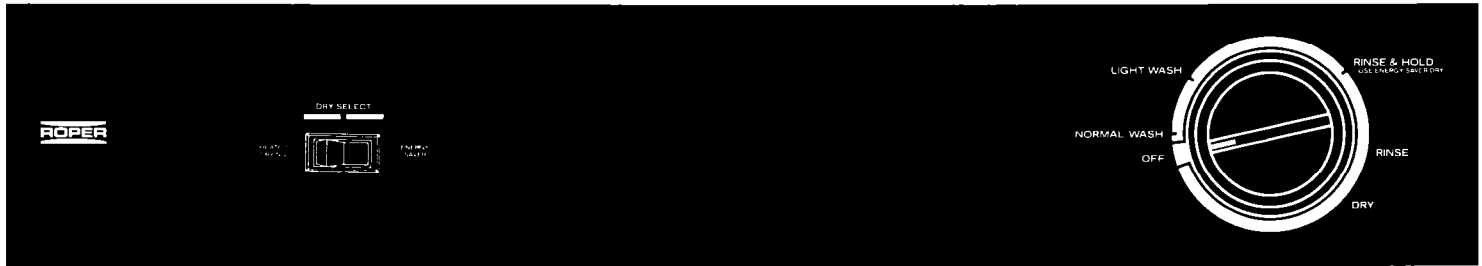
Starting dishwasher

1. Select a drying option. (Select ENERGY SAVER DRY for the Rinse & Hold Cycle.)
2. Select any other desired options that are available. Options may be changed or cancelled by pushing the Option Selector Button(s) again.
3. Turn Cycle Control Knob clockwise to point to a desired cycle. You will feel a definite stop at each cycle mark. The dishwasher will automatically start that cycle.

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

Continued on next page

Cycles and options (Models WU3000V and WU3006V)



Normal Wash cycle

A double wash for normal to heavily soiled loads. (The Energy Guide Label data is based on this cycle.)

Select the mark next to NORMAL WASH with the Cycle Control Knob. The cycle sequence will be:

Wash → Rinse → Wash → Rinse → Rinse → Dry → Off

Light Wash cycle

For pre-rinsed or lightly soiled loads.

Select the mark next to LIGHT WASH with the Cycle Control Knob. The cycle sequence will be:

Rinse → Wash → Rinse → Rinse → Dry → Off

Rinse & Hold cycle

For rinsing a few items to be washed one or more days later.

Select the mark next to RINSE & HOLD with the Cycle Control Knob. Push the ENERGY SAVER Option Selector Button. Using the Heated Drying option may cause food to bake onto dishes.

Rinse → Rinse → Off

Dry Select options

If the HEATED DRYING Option Selector Button is pushed, air in the dishwasher is heated during the "dry" part of the cycle.

If the ENERGY SAVER Option Selector Button is pushed, air in the dishwasher is not heated. 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 solid rinse aid.

Cycles and options (Models WU4400V and WU4406V)



Pots & Pans cycle

This cycle supplies maximum cleaning for cooked-on or baked-on foods. A timer delays the cycle while the dishwasher automatically heats the water to 145°F (65°C) in both washes and the last rinse (marked *). Cycle time depends on time needed to heat water.

Push the POTS & PANS Cycle Selector Button and select the mark next to POTS & PANS with the Cycle Control Knob. The cycle sequence will be:

Wash* → Rinse → Wash* → Rinse → Rinse* → Dry → Off

Normal Wash cycle

A double wash for normal, everyday loads. (The Energy Guide Label data is based on this cycle.)

Push the NORMAL/LIGHT Cycle Selector Button and select the mark next

to NORMAL WASH with the Cycle Control Knob. The cycle sequence will be:

Wash → Rinse → Wash → Rinse → Rinse → Dry → Off

Light Wash cycle

For pre-rinsed or lightly soiled loads.

Push the NORMAL/LIGHT Cycle Selector Button and select the mark next to LIGHT WASH with the Cycle Control Knob. The cycle sequence will be:

Rinse → Wash → Rinse → Rinse → Dry → Off

Rinse & Hold cycle

For rinsing a few items to be washed one or more days later.

Select the mark next to RINSE & HOLD with the Cycle Control Knob. Push the ENERGY SAVER DRY Option Selector Button. Using the Heat Dry

option may cause food to bake on dishes.

Rinse → Rinse → Off

Heat Dry option

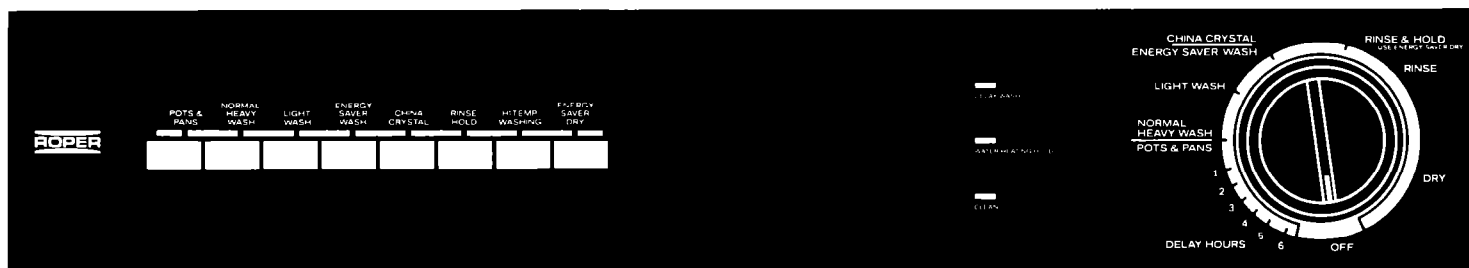
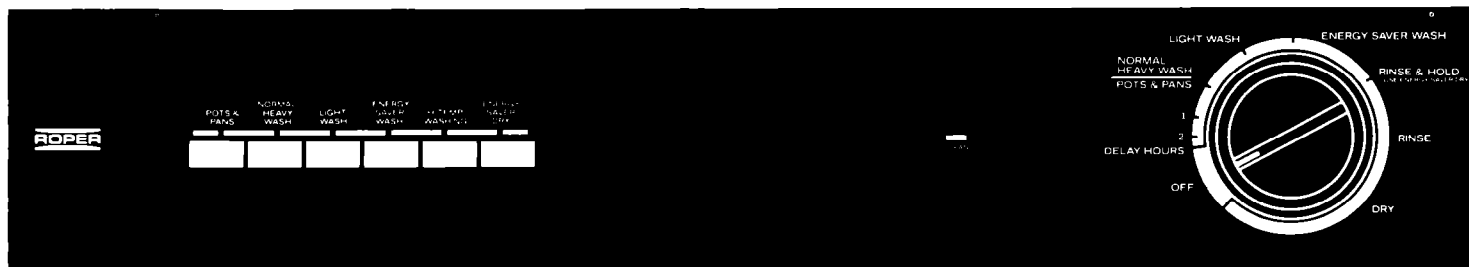
If the HEAT DRY Option Selector Button is pushed, air in the dishwasher is heated during the "dry" part of the cycle.

Energy Saver Dry option

If the ENERGY SAVER DRY Option Selector Button is pushed, air in the dishwasher is not heated. 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 aid.

Cycles and options (Models WU5650V and WU6850V)



Pots & Pans cycle

This cycle supplies maximum cleaning for cooked-on or baked-on foods. A timer delays the cycle while the dishwasher automatically heats the water to 145°F (65°C) in both washes and the last rinse (marked *). Cycle time depends on time needed to heat water.

Push the POTS & PANS Cycle Selector Button and select the mark next to POTS & PANS with the Cycle Control Knob. The cycle sequence will be:

Wash*→Rinse→Wash*→Rinse→Rinse*→Dry→Off

Heavy Wash cycle

A double wash for heavily soiled loads. A timer delays the cycle while the dishwasher automatically heats the water to 145°F (65°C) in the main wash and the last rinse (marked *). Cycle time depends on time needed to heat water.

Push the NORMAL/HEAVY WASH Cycle Selector Button and HI-TEMP WASHING Option Selector Button. Select the mark next to HEAVY WASH with the Cycle Control Knob. The cycle sequence will be:

Wash→Rinse→Wash*→Rinse→Rinse*→Dry→Off

Normal Wash cycle

A double wash for normal, everyday loads. (The Energy Guide Label data is based on this cycle.)

Push the NORMAL/HEAVY WASH Cycle Selector Button and select the mark next to NORMAL WASH with the Cycle Control Knob. The cycle sequence will be:

Wash→Rinse→Wash→Rinse→Rinse→Dry→Off

Light Wash cycle

For pre-rinsed or lightly soiled loads.

Push the LIGHT WASH Cycle Selector

Button and select the mark next to LIGHT WASH with the Cycle Control Knob. The cycle sequence will be:

Rinse→Wash→Rinse→Rinse→Dry→Off

Energy Saver Wash cycle

For pre-rinsed or lightly soiled loads. This cycle uses less heated water than other wash cycles.

Push the ENERGY SAVER WASH Cycle Selector Button and select the mark next to ENERGY SAVER WASH with the Cycle Control Knob. The cycle sequence will be:

Wash→Rinse→Rinse→Dry→Off

China Crystal cycle (Model WU6850V only)

A light wash and gentle dry for china and crystal. The heating element cycles on and off during the "dry" part of the cycle (unless the Energy Saver Dry option is selected).

Push the CHINA CRYSTAL Cycle Selector Button and select the mark next to CHINA CRYSTAL with the Cycle Control Knob. The cycle sequence will be:

Wash→Rinse→Rinse→Dry→Off

Rinse & Hold cycle

For rinsing a few items to be washed one or more days later.

Select the mark next to RINSE & HOLD with the Cycle Control Knob and, for Model WU6850V only, push the RINSE & HOLD Cycle Selector Button. Push the ENERGY SAVER DRY Option Selector Button. Using the Heat Dry option may cause food to bake on dishes. The cycle sequence will be:

Rinse→Rinse→Off

Energy Saver Dry option

Air in the dishwasher is automatically heated during the "dry" part of all cycles.

If the ENERGY SAVER DRY Option Selector Button is pushed, air in the dishwasher is not heated. 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 aid.

Hi-Temp Washing option

When the HI-TEMP WASHING Option Selector Button is pushed, water for the main wash and the final rinse is heated to 145°F (63°C). If the water is already hot enough, the cycle continues without delay. For model WU6850V, the WATER HEATING HOLD signal light will be on while the cycle delays for water heating.

The Hi-Temp Washing option is automatic in POTS & PANS cycle.

Using DELAY HOURS

1. Push desired Cycle Selector Button.
2. Push desired Option Selector Buttons.
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. For model WU6850V, the DELAY WASH signal light will come on and stay on until the cycle starts.

NOTE:

- You can add items while time is counting down. Close and latch the door. The timer will not advance if the door is unlatched.
- Rinse & Hold and Low Energy Wash cycles can't be delayed.

The CLEAN signal light

The CLEAN signal light will come on when a washing cycle is complete.

To turn light off, turn the Cycle Control Knob clockwise slightly until the light goes off.

To add a dish after starting

1. To be sure the added item is washed and rinsed, make sure the Cycle Control Knob has not passed LIGHT WASH on models WU3000V, WU3006V, WU4400V, and WU4406V or ENERGY SAVER WASH on models WU5650V and WU6850V.
2. Lift up on the door latch to unlatch door and stop the cycle. Don't open the door until the spray arms stop spinning.
3. Open the door and add the dish.

4. 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.
5. Press the door to latch it. The dishwasher will start from where it stopped.

Changing a setting

You can change a setting anytime during any cycle.

1. Lift up on the door latch to unlatch the door and stop the cycle.
2. Turn the Cycle Control Knob clockwise to the cycle you want.
3. Be sure the detergent dispensers are filled properly for the new cycle.
4. Press door firmly to latch it. The dishwasher will automatically start the new cycle.

Proper Loading

Preparation for loading

It is not necessary to rinse dishes before putting them into the dishwasher. Just remove large pieces and quantities of food and bones. The filtering system helps keep food particles out of the wash water. Small particles are flushed away as water is pumped out. Larger particles are trapped on the filter screen system. Refer to "Dishwasher care and cleaning" on page 8 for filter screen cleaning instructions.

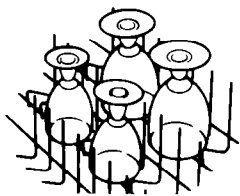
Always load dishes so soiled surfaces are reached by spray from rotating spray arms. Water must be able to drain off completely for best drying results. Be careful to separate items so spray can reach all surfaces.

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. Plastic items can melt in the bottom rack.
- Load plastic items so the force of the spray does not move them during the cycle.

Utensil load

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

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 either the upper or lower spray arm. Spray arms 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 the spray.
- Do not place items directly over spray tower.

Utensil load

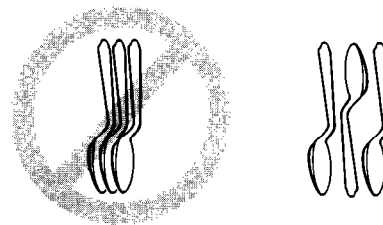
- Load cookie sheets, cake pans and other items at sides or back. Loading items in front may keep water spray from reaching detergent dispenser.

NOTE:

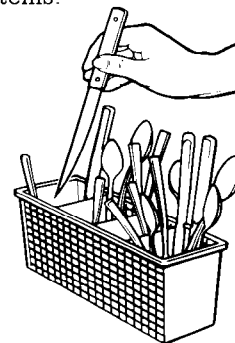
- Do not load glasses, cups or plastic items in the bottom rack.
- When lower rack is removed, replace with bumpers in front.

Silverware basket loading

Load the silverware basket while in or out of the bottom rack. The loaded basket should be in the center front of the bottom rack.



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



Mix items in each section of the basket with some pointing up and some down. Small items—baby bottle caps, jar lids, etc.—can be put in any section.

⚠ WARNING

Personal Injury Hazard

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

Make sure sharp items (knives, forks, skewers, etc.) are put in point down. Make sure long items do not stop the upper spray arm from spinning.

Adding Detergent And Rinse Aid

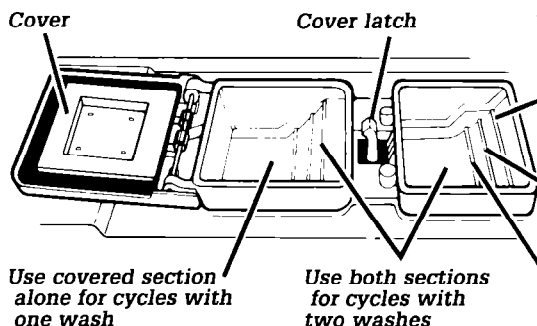
What type of detergent to use

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 phosphorous for softening water. If water is hard and phosphorous content is low (6.0% or less), you may need to use more detergent or use a brand with a higher phosphorous content (8.7% or higher).

Do not add detergent until you are ready to wash. When using Delay Wash Option on models WU5650V and WU6850V, make sure the detergent dispensers are clean and dry before adding the detergent. **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.

- Put detergent in both sections for cycles with two washes.
- Put detergent in the covered section only for cycles with one wash.
- 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 cover to open partially when dispensing detergent. The cover will open fully when the door is opened.

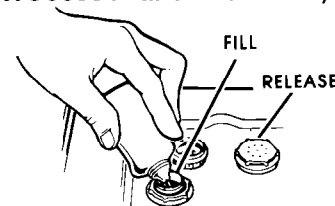
How much detergent to use

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.

Rinse aid dispenser (models WU4400V, WU4406V, WU5650V and WU6850V)



A rinse aid helps keep water from forming droplets and drying as spots. Keep the dispenser filled with a liquid rinse aid. A small amount is released automatically during the final rinse of each cycle.

Check the dispenser periodically to see if it needs refilling. An "E" will be visible inside dispenser when it is empty. Make sure dishwasher door is fully open when refilling. Do not fill past the smallest opening in the lower part of the dispenser. If you overfill, excess rinse aid can come out. This will not harm the dishwasher. Keep the dispenser fill cap tightly closed.

For Best Results

Hot water is a must

For best cleaning and drying results, water should be at least 140°F (60°C). To have a reliable hot water supply:

All models: Maintain 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 is too low, have a qualified person raise the water heater thermostat setting.

Models WU5650V and WU6850V: Use the Hi-Temp Washing option. If water heating is needed, a thermostat will delay the cycle until temperature reaches 145°F (63°C). If water is hot enough, the cycle will proceed with out 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 on dishwasher use

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 manufacturers' cleaning instructions.

Continued on next page

China: Check with manufacturer for cleaning instructions. 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 foods 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 a 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. Drying without heat provides additional protection.

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

TIPS: Follow manufacturers' instructions.

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: May streak, discolor, and pit.

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

Dishwasher Care And 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 interior:

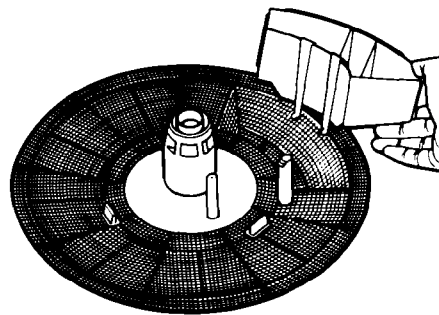
1. Apply powdered dishwasher detergent to a damp sponge to make a paste.

or

2. Use liquid automatic dishwasher detergent and clean with damp sponge.

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

To remove pump guard for cleaning



1. Wait at least 20 minutes after a cycle for the heating element to cool down.
2. Unload and remove the bottom rack.
3. Press the outside wall of the pump guard at the center to release the latch.
4. Lift out and rinse clean.

To replace the pump guard

1. Insert pump guard legs (on inside wall) into matching openings in filter screen.
2. Press down on outside wall until latch snaps into place.
3. Replace bottom rack with rack bumpers in front.

Common Dishwashing Problems

PROBLEM	CAUSED BY	SOLUTION
<p>Spotting and filming</p>	Hard water	<p>Fill detergent dispensers to capacity. Use dishwasher detergent with highest available phosphorous content. May be necessary to install water softener.</p> <p>To remove spots and film, try a vinegar rinse...</p> <ol style="list-style-type: none"> 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	<p>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 Washing option, if available.</p>
	Not enough detergent, or improper detergent	<p>Use more dishwasher detergent. Use detergent with highest available phosphorous content...especially with hard water.</p>
	"Old" detergent	<p>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.</p>
	Improper loading	<p>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.</p>
	No rinse aid	<p>Is a new solid rinse aid needed or does the rinse aid dispenser need filling? See instructions on page 7.</p>
	Drying with Energy Saver Dry option	<p>Drying without heat may result in some spotting of glasses and silver.</p>
<p>Small particles deposited on items</p>	<p>Spray arm or arms not rotating freely</p>	<p>Check spray arms to make sure they turn freely after loading. Be sure a utensil has not prevented their turning.</p> <p style="text-align: right;">Continued on next page</p>

PROBLEM	CAUSED BY	SOLUTION
<p>Small particles deposited on items (continued)</p>	<p>“Old” detergent</p> <p>Not enough detergent, or improper detergent</p> <p>Water is not hot enough</p> <p>Water pressure may be low, dishwasher is not filling properly</p>	<p>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.</p> <p>Use more dishwasher detergent. Use detergent with highest available phosphorous content...especially with hard water.</p> <p>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 Washing option, if available.</p> <p>If water pressure is low, do not use water for other purposes while dishwasher is running (to assure correct fills).</p>
<p>Dishes not dry</p>	<p>Water is not hot enough</p> <p>Improper loading</p> <p>No rinse aid</p> <p>Drying with Energy Saver Dry option</p>	<p>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 Washing option, if available.</p> <p>Make sure dishes and glassware are loaded so spray reaches all surfaces and items drain properly. Do not overload. Do not nest items.</p> <p>Is a new solid rinse aid needed or does the rinse aid dispenser need filling? See instructions on page 7.</p> <p>Allow more time when drying without heat, or dry with heat. Plastic items may need towel drying.</p>
<p>Black marks on dishes</p>	<p>Aluminum utensils rubbing against items during washing</p>	<p>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.</p>
<p>Chipping or breaking glassware</p>	<p>Improper loading</p>	<p>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.</p>
<p>Dishes not washing clean</p>	<p>Water is not hot enough</p>	<p>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 Washing option, if available.</p>

PROBLEM	CAUSED BY	SOLUTION
<p>Dishes not washing clean (continued)</p>	<p>Improper loading</p> <p>Spray arm or arms not rotating freely</p> <p>Not enough detergent or improper detergent</p> <p>"Old" detergent</p> <p>Water pressure may be low, dishwasher is not filling properly</p>	<p>Make sure dishes and glassware are loaded so spray reaches all surfaces and items drain properly. Do not overload. Do not nest items.</p> <p>Make sure large items do not block spray from reaching detergent dispensers.</p> <p>Check spray arms to make sure they turn freely after loading. Be sure a utensil has not prevented their turning.</p> <p>Use more dishwasher detergent. Use detergent with highest available phosphorous content...especially with hard water.</p> <p>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.</p> <p>If water pressure is low, do not use water for other purposes while dishwasher is running (to assure correct fills).</p>
<p>Cloudy film on glassware, etching—permanent corrosion</p>	<p>Too much detergent in soft water</p> <p>Inadequate rinsing</p>	<p>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 phosphorous content.</p> <p>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.</p>
<p>Dishes & interior of dishwasher yellow or brown</p>	<p>Iron or manganese in water</p>	<p>Temporary remedy:</p> <ol style="list-style-type: none"> 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 1/4 to 1/2 cup (120 to 240 mL) of citric acid crystals (usually available in drugstores). 4. Close and latch door to complete cycle. <p>Permanent solution: Install an iron or manganese filter to home water supply.</p>

PROBLEM	CAUSED BY	SOLUTION
<p>Rust spots on stainless steel -OR- Dark spots on flatware— stainless steel, silver plate, or sterling</p>	<p>Allowing salty or acidic foods such as mayonnaise, vinegar, fruit juices, salad dressings or milk products to remain on flatware. Undissolved detergent coming in contact with flatware</p> <p>Undissolved detergent coming in contact with flatware</p>	<p>Rinse flatware that is to stand for several hours before washing (use Rinse & Hold 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.</p> <p>Remove spots with silver polish. Avoid spilling concentrated detergent on wet flatware.</p>
<p>Bronze tarnish on silverplate</p>	<p>Silverplate is worn off. Exposed base metal takes on a bronzed hue</p>	<p>Remove tarnish with silver polish. Have silver replated.</p>
<p>Water left in bottom of dishwasher</p>	<p>Dishwasher cycle not completed</p> <p>Clogged drain air gap</p>	<p>Allow dishwasher to complete cycle. Some remaining water is normal and keeps seals from drying.</p> <p>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.</p>

Before You Call For Service

If you are having an operating problem, check the list to see what the cause might be before you call for assistance.

OPERATING PROBLEM	CHECK IF	WHAT TO DO
Dishwasher will not run, or stops during a cycle	<ul style="list-style-type: none"> ▪ Dishwasher is properly connected to a live circuit with the proper voltage. ▪ Fuse has blown or circuit breaker has not tripped. ▪ Water is turned on. ▪ Motor has stopped because of an overload. ▪ Door is tightly closed and securely latched. ▪ Cycle has been correctly set. 	<p>Contact qualified service technician to reconnect cooktop to electrical supply. (See Installation Instructions.)</p> <p>Replace fuse or reset circuit breaker.</p> <p>Open water valve to dishwasher.</p> <p>Motor will automatically reset itself within a few minutes. If the motor does not start, call for service.</p> <p>Press firmly against door.</p> <p>Reset cycle following steps on pages 4 or 5.</p>
Dishwasher won't fill	<ul style="list-style-type: none"> ▪ Drain air gap is clogged. ▪ Overflow protector is stuck in "up" position. 	<p>Clean drain air gap. (See Installation Instructions.)</p> <p>Overflow protector should move up and down freely. Press down to release.</p>
Water remains in the dishwasher	<ul style="list-style-type: none"> ▪ The cycle has completed. ▪ Drain air gap is clogged. 	<p>Wait for the cycle to finish. A small amount of remaining water is normal.</p> <p>Clean drain air gap. (See Installation Instructions.)</p>
Detergent remains in the covered detergent cup	<ul style="list-style-type: none"> ▪ The bottom rack is in properly. ▪ The dishwasher detergent is fresh and dry without lumps. ▪ The cycle has completed. 	<p>Place the rack with the rack bumpers at the front.</p> <p>Replace old detergent with fresh.</p> <p>Wait for the cycle to finish.</p>
White residue appears on front of access panel	<ul style="list-style-type: none"> ▪ Too much detergent is being used. ▪ Your liquid detergent is developing excess foam and building up on exterior of access panel. 	<p>See page 7 for recommended amounts of detergent.</p> <p>Try a different brand to reduce foaming and eliminate build-up.</p>

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If You Need Assistance, Service Or Replacement Parts...

Read the warranty. Contact your local dealer to recommend a local service company or to obtain replacement parts.

You will need the model number and serial number when you call for assistance or service. Both numbers are located on the door frame (see illustrations on page 3).

LIMITED WARRANTY



Appliances

This Roper appliance is warranted by Whirlpool Corporation to be free from defect in material and workmanship to the original domestic purchaser. Any parts which we find to be defective will be repaired or replaced at our option subject to the following limitations:

1. Repair or replace during the first thirty (30) days from the date of purchase any finishes (porcelain, enamel or other) and glass parts which we find to be defective.
2. Repair or replace during the first (1st) year from date of purchase any other part except for the finish, which we find to be defective.
3. Repair or replace during the first five (5) years from date of purchase any magnetron (on those units so equipped) which we find to be defective. Labor on any magnetron under warranty is limited to the first (1st) year from date of purchase.
4. During the second (2nd) through the fifth (5th) years from the date of original purchase on any product so equipped, any part of the refrigerating system (compressor, evaporator, condenser, drier or connecting tubing) or any part of the washer gear case assembly found defective in material or workmanship, will be supplied. Labor on the refrigerating system and gear case assembly under this warranty is limited to the first (1st) year from the date of original purchase.
5. Replacement parts furnished under the terms of this warranty are warranted only for the unexpired portion of the original warranty period and transportation charges relative to obtaining parts involved are the responsibility of the original consumer purchaser.
6. This warranty applies only to products properly installed, adjusted and operated in accordance with instructions found in the product literature. This warranty does not apply to any product which has been subjected to alteration, misuse, improper installation or delivery damage. Nor does it apply to costs for any service requested for demonstration or to confirm proper operation of appliance, or when used in other than, single-family household use.
7. Any repairs made under the terms of this warranty must be performed by a Roper brand appliance servicer authorized by warrantor.

SHOULD YOU HAVE ANY QUESTIONS CONCERNING THIS WARRANTY, PLEASE CONTACT:

Customer Relations Dept.
ROPER Brand Appliances
2000 M 63 North
Benton Harbor, MI 49022

Call Toll Free 1-(800) 44-ROPER
1-(800) 447-6737
Between 8:00 a.m. - 4:30 p.m.
Monday thru Friday, Eastern Time

If you write or call, please furnish complete model and serial number of appliance and date of purchase.

Under no circumstances shall Whirlpool Corporation be liable under this warranty for any loss of any incidental or consequential damages and all IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN ON EXPRESS WARRANTIES FOR ROPER BRAND APPLIANCES.

Some states do not allow the exclusion or limitation of consequential damages or limitations of how long an implied warranty may last, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which may vary from state to state.

THIS IS A LIMITED WARRANTY WITHIN THE MEANING OF THAT TERM AS DEFINED IN THE MAGNUSON-MOSS ACT OF 1975.

If you need service for your Roper brand appliance:

- Contact your selling dealer for the authorized servicer in your area.
- OR-
- Phone 1-(800) 44-ROPER [1-(800)447-6737] BETWEEN 8:00 - 4:30 Eastern Time - Monday thru Friday.

