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use&care guide

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DISHWASHER

Undercounter Model GDU4050XP





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Before you use your dishwasher

- It is your personal responsibility and obligation 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.*
- Is not used by children or anyone unable to operate it properly.
- Is properly maintained.
- *See installation instructions for complete information.

Important safety instructions

WARNING – When using your dishwasher, follow basic precautions, including the following:

- 1. Read all instructions before using the dishwasher.
- 2. DO NOT let children play in or on the dishwasher.
- 3. DO NOT reach into the area below the bottom rack until the Heating Element has cooled for at least 20 minutes.
- 4. DO NOT wash plastic items unless marked "Dishwasher Safe" or the equivalent. If not marked check manufacturer's recommendations.
- 5. Store dishwasher detergent in a cool, dry place WHERE CHILDREN CAN'T REACH IT.
- 6. Use ONLY detergents and rinse aids recommended for use in a dishwasher.
- 7. **REMEMBER**, use your dishwasher only for the job it was designed to do.
- Locate sharp items and knives so that they are not likely to damage door seal or cut the user.
- 9. Properly connect to electricity and water.
- 10. DISHWASHER MUST BE ELECTRICALLY GROUNDED. Read the Installation Instructions for details.

- 11. DO NOT use your dishwasher unless all enclosure panels are properly in place.
- 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.
- **13. DO NOT** sit or stand on or abuse the dishwasher door or dish racks.
- 14. DO NOT tamper with controls.
- 15. When discarding an old dishwasher, always remove the door to prevent accidental entrapment.
- 16. WARNING: 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. WARNING: Disconnect electrical power to the dishwasher before attempting to service.

- SAVE THESE INSTRUCTIONS -



POWER CLEAN* Washing System

Your dishwasher cleans by spraying a mixture of hot, clean water and detergent against soiled surfaces of dishes. When a cycle is started, the dishwasher fills with water to about the level of the heating element. This water is pumped through the rotating spray arms, through the POWER CLEAN Module which removes food particles, and back through the rotating spray arms. Soiled water is pumped out and replaced with clean water during a cycle – the number of times depends on the cycle being used.





The POWER CLEAN* Module removes food particles from the water, stores them, then washes them down the drain.

Load dishes so soiled surfaces face powerful spray from rotating arms.

Step-saving preparation for washing

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

If hard items such as fruit seeds, nuts and eag shells enter the POWER CLEAN* Module, you might hear chopping, grinding, crunching or buzzing sounds. Those sounds are normal when hard items enter the module. DO NOT LET METALLIC ITEMS (I.E. POT HANDLE SCREWS) GET INTO THE POWER CLEAN* MODULE. THIS COULD RESULT IN DAMAGE TO THE POWER CLEAN* MODULE.



Water must be hot

For best cleaning and drying results, water should be at least 140°F (60°C).

- 1. Turn on hot water faucet nearest the dishwasher. Let water run until it is as hot as possible.
- 2. Hold a candy or meat thermometer in the stream of hot water to measure the temperature.
- 3. If the temperature is too low, have a qualified person raise the water heater thermostat setting.

Temperature

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. *Tmk

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

Top rack loading



items so spray can reach all surfaces.

Proper loading

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

- 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.



- Load plastic items only in the top rack. Only plastic items marked "dishwasher safe" are recommended.
- Plastic items can be melted in the bottom rack.



- Small bowls, pans and other utensils can be placed in the top rack.
- Items with cooked-on or dried-on foods should be loaded in the bottom rack with soiled surfaces facing the spray.

Bottom rack loading



- Make sure pot handles and other items do not stop rotation of either the upper or lower spray arm. Spray arms must move freely.
- Securely place heavily soiled cookware face down in rack.



• 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.

NOTE

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



• Place plates, soup bowls, etc., **between** prongs and facing the spray.



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

Adding detergent

The kind and amount of dishwasher detergent you use is an important part of getting your dishes clean. Read this section carefully.

Use automatic dishwasher detergent only.

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

Different brands of dishwasher detergent have different amounts of phosphorus. Phosphorus softens water and helps prevent water spots on dishes.

If water is hard and phosphorus content is low (8.7% or less), you may need to use more detergent or use a brand with a higher phosphorus content (12% or higher).

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

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





Use covered section for.. LOW ENERGY NORMAL Cycle Use both sections for... DUAL WASH Cycle and PRE-WASH PLUS NORMAL Cycle.

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 is 8 or more grains of hardness.
- MEDIUM Fill 1 or both sections to middle line if water is 5 to 7 grains of hardness.
- SOFT Fill 1 or both sections to bottom line if water is 0 to 4 grains of hardness.

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Before starting your dishwasher

- Spin the Upper Spray Arm to make sure nothing will stop it from turning freely.
- 2. Push door firmly when closing and it will automatically latch.
- 3. Run hot water at sink nearest dishwasher until it is hot. Turn it off.

Starting your dishwasher

DUAL WASH Cycle...

- 1. Select a drying option.
- 2. Turn Cycle Control Knob clockwise to dot marked **DUAL WASH**. The dishwasher will automatically start that cycle.

LOW ENERGY NORMAL WASH Cycle...

- 1. Select a drying option.
- Turn Cycle Control Knob clockwise to dot marked LOW ENERGY NORMAL. The dishwasher will automatically start that cycle.

PRE-WASH PLUS NORMAL WASH Cycle...

- 1. Select a drying option.
- Turn Cycle Control Knob clockwise to dot marked PRE-WASH PLUS NORMAL. The dishwasher will automatically start that cycle.

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RINSE & HOLD Cycle...

- 1. Select AIR DRY OPTION only.
- 2. Turn Cycle Control Knob clockwise to dot marked **RINSE & HOLD**. The dishwasher will automatically start that cycle.

Changing a setting

You can change a setting anytime during any cycle.

- 1. Press in 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. Close and latch the door. The dishwasher will automatically start the new cycle.

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Selecting a cycle



dishwasher is heated during the "dry" part of the cycle.

If the AIR DRY Option is selected, air in the dishwasher is not heated. Using this option helps

To add a dish after starting

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- 1. To be sure the added item is washed and rinsed, make sure the Cycle Control Knob has not passed LOW ENERGY NORMAL.
- 2. Push up on door latch to unlatch door and stop the cycle.
- 3. Open the door and add the dish.

Some items (such as plastics) may need towel drving.

For best results, use a solid rinse aid.

- 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 cvcle.
- 5. Press in door to latch it. The dishwasher will start where it stopped.

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.



3. Air dry dishes when you don't need a rapid drying cycle. Allow longer drying times (overnight).





2. Use the LOW ENERGY NORMAL cycle for normally soiled loads. It uses less hot water and energy than DUAL WASH or PRE-WASH NORMAL.



- 4. Load correctly for best washing results. Incorrect loading may cause poor washing and the need to rewash all or part of the load.
- 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.

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.

China: Hand-painted, metal-trimmed, and antique china may fade due to high water temperatures and alkaline detergent solution in the dishwasher.

TIPS: Delicate, antique items should not be washed in the dishwasher. Load 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.

TIPS: Delicate, antique items should not be washed in the dishwasher. Load 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 reaction of silver with chlorine in the detergent. **Gold flatware is not dishwasher safe.**

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

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

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

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

TIPS: If in doubt, try one piece. Place in upper rack only. AIR DRY option provides additional protection.

Non-stick finish utensils: Most can be washed in the dishwasher. **TIPS:** Follow manufacturers' suggestions.

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

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

Pewter or pewter-like materials: May streak, discolor, and pit.

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

Dishwasher care & cleaning:

Exterior – Regular use of a soft damp cloth or sponge and a mild detergent is all that is necessary, in most cases, to keep the outside of your dishwasher nice looking and clean. Interior – Hard water minerals may cause a white film to build-up on the inside surfaces, especially just beneath the door area. Wear rubber gloves when cleaning the dishwasher interior. Do not use any type of cleanser other than dishwasher detergent because it may cause foaming or

sudsing.

Common dishwashing problems

PROBLEM	CAUSED BY	SOLUTION
Spotting and fliming (hard water film)	Hard water	Fill detergent dispensers to capacity. Use dishwasher de- tergent with highest available phosphorus content. May be necessary to install water softener.
		To remove spots and film, try a vinegar rinse
		 Wash and rinse load as usual. Use AIR DRY. Remove all metal items. Put 2 cups (500 mL) white vinegar in a container on the bottom rack. Run dishwasher through a complete washing cycle.
	Water is not hot enough	Water temperature should be at least 140°F (60°C). Set water heater thermostat to a higher setting. Run water at sink until hot before starting.
	Not enough detergent, or improper detergent	Use more dishwasher detergent. Use detergent with high- est available phosphorus contentespecially with hard water.
	"Old" detergent	Use only fresh dishwasher detergent. Store tightly closed container, in cool, dry place. Discard old detergent. Do not fill dispensers until ready to start dishwasher.
	Improper loading	Make sure dishes and glassware are loaded so spray reaches all surfaces and items drain properly. Do not ov- erload. Do not nest items.
		Make sure large items do not block spray from reaching detergent dispensers.
	No rinse aid	Try a bar rinse aid such as Solid Jet DRY®. Follow package directions.
and the second	AIR DRY Setting used	Drying without heat may result in some spotting of glasses and silver.
Small particles deposited on	Spray arm or arms not rotating freely	Check spray arms to make sure they turn freely after load- ing. Be sure a utensil has not prevented their turning.
items	"Old" detergent	Use only fresh dishwasher detergent. Store tightly closed container, in cool, dry place. Discard old detergent. Do not fill dispensers until ready to start dishwasher.
	Not enough detergent, or improper detergent	Use more dishwasher detergent. Use detergent with high- est available phosphorus contentespecially with hard water.
	Water is not hot enough	Water temperature should be at least 140°F (60°C). Set water heater thermostat to a higher setting. Run water at sink until hot before starting.
	Water pressure may be low, dishwasher is not filling properly	If water pressure is low, do not use water for other purposes while dishwasher is running (to assure correct fills).
Dishes not dry	Water is not hot enough	Water temperature should be at least 140°F (60°C). Set water heater thermostat to a higher setting. Run water at sink until hot before starting.
	Improper loading	Make sure dishes and glassware are loaded so spray reaches all surfaces and items drain properly. Do not ov- erload. Do not nest items.
	No rinse aid	Try a bar rinse aid such as Solid Jet DRY®. Follow package directions.
	AIR DRY Setting used	Allow more time when using AIR DRY Option, or use HEAT DRY. Plastic items may need towel drying.
Black marks on dishes	Aluminum utensils rubbing against items during washing	Use care in loading aluminum utensils, especially any lightweight foil container. Place so they do not touch dishes. Remove black marks with plastic scouring pad and a mild abrasive cleanser.
Chipping or breaking glassware	Improper loading	Do not overload. Load glasses in the top rack only. Load between prongs, not over them. Glasses loaded over prongs will not be supported and may chip or break.

PROBLEM	CAUSED BY	SOLUTION
Dishes not washing clean	Water is not hot enough	Water temperature should be at least 140°F (60°C). Set water heater thermostat to a higher setting. Run water at sink until hot before starting.
	Improper loading	Make sure dishes and glassware are loaded so spray reaches all surfaces and items drain properly. Do not ov- erload. Do not nest items.
		Make sure large items do not block spray from reaching detergent dispensers.
	Spray arm or arms not rotating freely	Check spray arms to make sure they turn freely after load- ing. Be sure a utensil has not prevented their turning.
	Not enough detergent or improper detergent	Use more dishwasher detergent. Use detergent with high- est available phosphorus contentespecially with hard water.
	"Old" detergent.	Use only fresh dishwasher detergent. Store tightly closed container, in cool, dry place. Discard old detergent. Do not fill dispensers until ready to start dishwasher.
	Water pressure may be low, dishwasher is not filling properly	If water pressure is low, do not use water for other purposes while dishwasher is running (to assure correct fills).
Cloudy film on glassware, etching – permanent	Too much detergent in soft water	Check for rainbow hue on glasses. A rainbow hue is the first sign of etching (corrosion of glass). Reduce the amount of dishwasher detergent. Use a detergent with a lower phosphorus content.
corrosion	Inadequate rinsing	If water pressure is low do not use water for other purposes while dishwasher is running (to assure correct water fills) Make sure dishes and glassware are loaded properly to assure adequate rinsing and draining. Do not overload.
Dishes & interior of dishwasher yellow or brown	Iron or manganese in water	 Temporary remedy: Set empty dishwasher for a "one wash" cycle. Start dishwasher and unlatch door to stop it when it has filled for the wash part of the cycle. Add ¼ to ½ cup (120 to 240 mL) of citric acid crystals (usually available in drugstores). Close and latch door to complete cycle. Permanent solution: Install an iron or manganese filter to home water supply.
Rust spots on stainless steel -OR- Dark spots on flatware – stainless steel, silver plate, or	Allowing salty or acidic foods such as mayonnaise, vinegar, fruit juices, salad dressings, milk products to remain on flatware.	Rinse flatware that is to stand for several hours before washing (use Rinse & Hold). 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 perma- nent damage to the silver.
sterling	Undissolved detergent coming in contact with flatware	Remove spots with silver polish. Avoid spilling concentrated detergent on wet flatware.
Bronze tarnish on silverplate	Silverplate is worn off. Exposed base metal takes on a bronzed hue.	Remove tarnish with silver polish. Have silver replated.
Water left in bottom of	Dishwasher cycle not completed	Allow dishwasher to complete cycle.
dishwasher	Clogged drain air gap	Some plumbing codes require use of a drain air gap be- tween 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 insure proper draining of the dishwasher.
Standard Street Barrison Barrison		electric insure proper draming of the distivusher.

If you need service or assistance, we suggest you follow these four steps:

1. Before calling for assistance...

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

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

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

If water remains in the dishwasher:

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

If detergent remains in the covered detergent cup:

- Is the bottom rack in backwards? (The rack bumpers should be at the front.)
- Is the dishwasher detergent fresh?
- Is the cycle completed?

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

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

2. If you need assistance*...

Call Whirlpool COOL-LINE® service as-

sistance telephone number. D		
Continental U.S.	(800) (253-1301
Michigan	1008	532-2243
Alaska & Hawaii	(800) :	253-1121

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.

3. If you need service*...



Whirlpool has a nationwide network of franchised TECH-CARE® Service Companies. TECH-CARE service technicians are trained to fulfill the product warranty and provide afterwarranty service,

anywhere in the United States. To locate TECH-CARE service in your area, call our COOL-LINE service assistance telephone number (see Step 2) or look in your telephone directory Yellow Pages under:

APPLIANCES – HOUS MAJOR – SERVICE &		ELECTRICAL APPLI MAJOR – REPAIRI R	
WHIRLPOOL APPLIANCES FRANCHISED TECH-CAR		WHIRLPOOL APPLIANCI FRANCHISED TECH-C	
SERVICE XYZ SERVICE CO	COMPANIES		E COMPANIES
123 MAPLE	999-9999	XYZ SERVICE CO 123 MAPLE	999-9999
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WH	IRLPOOL APPLIAN FRANCHISED TEC		
10 C		CE COMPANIES	
	2 SERVICE CO 23 MAPLE	999-9999	

4. If you have a problem*...

Call our COOL-LINE service assistance telephone number (see Step 2) and talk with one of our Consultants, or if you prefer, write to:

Mr. Robert Stanley Division Vice President Whirlpool Corporation 2000 US-33, North Benton Harbor, MI 49022

*If you must call or write, please provide: model number, serial number, date of purchase, and a complete description of the problem. This information is needed in order to better respond to your request for assistance.



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.

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