

# User Manual KitchenAid KUDS02FRSS1 Dishwasher

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## IMPORTANT SAFETY INSTRUCTIONS

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

- Read all instructions before using the dishwasher. Use the dishwasher only for its intended function. Use only detergents or rinse agents recommended for use in a dishwasher, and keep them out of the reach of children.
- When loading items to be washed:
  - 1) Locate sharp items so that they are not likely to damage the door seal; and
  - 2) Load sharp knives with the handles up to reduce the risk of cut-type injuries.
- Do not wash plastic items unless they are marked "dishwasher safe" or the equivalent. For plastic items not so marked, check the manufacturer's recommendations.
- Do not touch the heating element during or immediately after use.
- Do not operate the dishwasher unless all enclosure panels are properly in place.
- Do not tamper with controls. Do not abuse, sit on, or stand on the door, lid, or dish racks of the dishwasher.
- To reduce the risk of injury, do not allow children to play in or on the dishwasher.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. **HYDROGEN GAS IS EXPLOSIVE.** If the hot water system has not been used for such a period, before using the dishwasher turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. As the gas is flammable, do not smoke or use an open flame during this time.
- Remove the door or lid to the washing compartment when removing an old dishwasher from service or discarding it.

## Tip Over Hazard

- Do not use dishwasher until completely installed.
- Do not push down on open door.
- Doing so can result in serious injury or cuts.

## Electrical Shock Hazard

- Electrically ground dishwasher.
- Connect ground wire to green ground connector in terminal box.
- Do not use an extension cord.
- Failure to follow these instructions can result in death, fire, or electrical shock.

- Install where dishwasher is protected from the elements. Protect against freezing to avoid possible rupture of fill valve. Such ruptures are not covered by the warranty. See "Storing" in the "Dishwasher Care" section for winter storage information.

- Install and level dishwasher on a floor that will hold the weight, and in an area suitable for its size and use.

- Remove all shipping plugs from hoses and connectors (such as the cap on the drain outlet) before installing. See Installation Instructions for complete information.

## GROUNDING INSTRUCTIONS

### • For a grounded, cord-connected dishwasher:

The dishwasher must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing path of least resistance for electric current. The dishwasher is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is installed and grounded in accordance with all local codes and ordinances.

**WARNING:** Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are in doubt whether the dishwasher is properly grounded. Do not modify the plug provided with the dishwasher; if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

### • For a permanently connected dishwasher:

The dishwasher must be connected to a grounded metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the dishwasher.

## DISHWASHER USE

### Loading Suggestions

- Remove leftover food, bones, toothpicks and other hard items from the dishes. To conserve water, energy and save time, it is not necessary to rinse dishes before putting them into the dishwasher. The wash system removes food particles from the water. The system contains a chopping device which will reduce the size of food items.

**NOTE:** If hard items such as fruit seeds, nuts, and eggshells enter the wash module, you might hear chopping, grinding, crunching, or buzzing sounds. These sounds are normal when hard items enter the module. Do not let metallic items (such as pot handle screws) get into the wash module. Damage can occur.

- It is important for the water spray to reach all soiled surfaces.
- Load dishes so they are not stacked or overlapping if possible.
- For best drying, water must be able to drain from all surfaces.
- Load heavy pots and pans gently. Heavy items can dent the stainless steel interior of the door if they are dropped or bumped.
- Make sure pot lids and handles, pizza pans, cookie sheets, etc. do not interfere with the spray arm rotation.
- Conserve water, energy and save time by running a rinse cycle if you do not plan to wash dishes soon. Foods such as eggs, rice, pasta, spinach, and cooked cereals may be hard to remove if they are left to dry over a period of time.

### **Quiet operating tips**

To avoid thumping/clattering noises during operation: Make sure lightweight load items are secured in the racks.

- Make sure pot lids and handles, pizza pans, cookie sheets, etc. do not touch interior walls or interfere with the rotation of the spray arm.
- Load dishes so they do not touch one another.

### **Detergent Dispenser**

The detergent dispenser has two sections. The smaller Pre-Wash section empties detergent into the dishwasher when you close the door. The larger MainWash section automatically empties detergent into the dishwasher during the wash. (See the "Cycle Selections" in the Consumer Reference Guide.)

- Use automatic dishwashing detergent only. Other detergents can produce excessive suds that can overflow out of the dishwasher and reduce washing performance.
- Add detergent just before starting cycle.
- Store tightly closed detergent in a cool, dry place. Fresh automatic dishwasher detergent results in better cleaning.

**NOTE:** Do not use detergent with a rinse cycle.

## Filling the dispenser

1. If the dispenser cover is closed, open the cover by moving the cover latch to the right.
2. Add the correct amount of detergent to the Main Wash section of the dispenser according to the chart below. If you are using a tablet detergent, it must be placed in the Main Wash section. (See "How much detergent to use.")
3. Add the correct amount of detergent to the Pre-Wash section of the dispenser, if needed, according to the chart below.
4. Close the dispenser cover.

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

**NOTE:** See the "Cycle Selections" in the Consumer Reference Guide for which section to fill depending on the cycle selected.

## How much detergent to use

- The amount of detergent to use depends on the soil level of Water hardness can change over a period of time. If you do your dishes, hardness of your water, and the type of not know your water hardness, call us or your designated detergent.
- If you use too little, dishes will not be clean. If you service center and ask for a free water hardness test strip, use too much in soft water, glassware will etch. Part Number 4171690. For more information, see "Assistance or Service."

## Rinse Aid Dispenser

**IMPORTANT:** Your dishwasher is designed to use a liquid rinse aid. The use of rinse aids greatly improves drying by allowing streaks. Do not use a solid or bar-type rinse aid. Filling the dispenser The rinse aid dispenser holds 5oz (150mL) of rinse aid. Under normal conditions, this will last for about 1 to 3 months.

1. Make sure the dishwasher door is fully open.
2. Turn the dispenser knob to "Open" and lift it out.
3. Pour rinse aid into the opening until the indicator points to "Full." Take care not to overfill. (When the rinse aid indicator drops to the "Add" level, add more rinse aid.)
4. Clean up any spilled rinse aid with a damp cloth.
5. Place the knob back into the opening and turn to the "Lock" position.

## Rinse aid setting

The amount of rinse aid released into the final rinse can be adjusted. For most water conditions, the factory setting of 2 will give good results. If you have hard water or notice rings or calcium spots on your glasses or dishes, try a higher setting.

## **To adjust the setting**

1. Remove the dispenser knob.
2. Turn the arrow adjuster inside the dispenser to the desired setting by either using your fingers or inserting a flat-blade screwdriver into the center of the arrow and turning.
3. Replace the dispenser knob.

## **Performance Tips**

Hot water dissolves and activates the dishwashing detergent. Hot water also dissolves grease on dishes and helps glasses dry spot free. Is the water temperature too low? For best dishwashing results, water should be 120°F (49°C) as it enters the dishwasher. Loads may not wash as well if the water temperature is too low. Water that is too hot can make some soils harder to remove and cause certain detergent ingredients not to function. If your water heater is located far from the dishwasher, it may be necessary to run the hot water at the faucet closest to the dishwasher to minimize the amount of cold water in the water line.

## **To check water temperature**

1. Run hot water at the faucet closest to your dishwasher for at least 1 minute.
2. Place a candy or meat thermometer in a glass measuring cup.
3. Check the temperature on the thermometer as the water is running into the cup.

## **Additional efficiency tips**

- To save water and energy and time, do not rinse dishes before putting them into the dishwasher.
- Choose the cycle that describes the most difficult soil in your dish load.
- Do not worry about mixed loads. Any item that is dishwasher safe can be washed using any cycle.
- Use a delay feature (on some models) to run your dishwasher during off-peak hours. Local utilities recommend avoiding heavy usage of energy at certain times of day.
- During the summer, run your dishwasher at night. This reduces daytime heat buildup in the kitchen.
- Use the heated dry option for best drying performance.
- Always use rinse aid.
- Use cycles or options that add extra heat to the wash or rinse portion of the cycle for better performance.
- Run your dishwasher with full loads. Run a rinse cycle after meals until the dishwasher is full.
- If your home is equipped with a water softener, you may want to avoid starting the dishwasher during the regeneration of the softener, since this may contribute to poor wash performance.

## **Wash System**

The five-level wash system provides excellent cleaning results. Four level so ffiltration and a soil collect or system filter the wash water and prevent food particles from redepositing on the clean dishes.

- The wash water continuously flows through the Ultra-Fine filter, rapping food particles.
- Two water jets, ocated under the spray arm, remove the food particles from theUltra-Fine filter.
- A coarse strainer prevents bones,pits, and other large objects from entering the pump system.

**NOTE:** Periodically check the coarse strainer and remove any objects on the strainer.

### **Drying System**

NOTE:Your dishwasher has one of the vent systems shown below.

#### **Located on the front left side of the door**

During drying, you can see steam escaping through the vent at the upper left corner of the door. This is normal as the heat dries your dishes.

**IMPORTANT:** The vapor is hot. Do not touch the vent during drying.

### **Sensor System**

This dishwasher is equipped with an optical sensor wash that detects water temperature, soil and detergent amount. Wash cycles are adjusted based on what is sensed.

The dishwasher "senses" wash water quality during a series of pauses in the wash cycle. The sensor monitors water temperature and the amount of soil and detergent appearing in the wash water. It automatically adjusts the wash cycle for the best wash. Lightly soiled dishes will use less water and energy. Heavily soiled dishes will get more water, increased temperature and wash time. This dishwasher will automatically adjust the sensor approximately once a year to your water quality.

**IMPORTANT:** The very first wash cycle after installation in your home will be adjusted to include an additional 2 rinses. This cycle must not be interrupted for proper sensor adjustment. If this adjustment cycle is canceled or stopped before the Clean light comes on at the end of the cycle, the next wash cycle will repeat this sensor adjustment.

### **Sound System**

The WHISPER QUIET ° sound insulation system helps to maintain a quiet home environment during dishwasher operation.

**NOTE:** If you do not load dishes properly, the quiet operation of your dishwasher could be affected. (See "Loading" in the Consumer Reference Guide.)

#### **Located on the top left side of the door**

The active vent reduces the filling and washing sounds from your dishwasher. The vent closes, after the cycle starts, to lock in sound. After the cycle finishes and the dishes cool for several

hours. the vent opens. This prevents any water vapor from collecting on the countertop. Between cycles. the vent stays open for airflow. reducing the buildup of odors.

**NOTE:** There is a slight noise when the vent closes or opens. This is normal.

### **Overfill Protection Float**

The overfill protection float (in the front right corner of the dishwasher tub) keeps the dishwasher from overflowing. 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.

## **DISHWASHER CARE**

### **Cleaning**

#### ***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 looking nice and clean. If your dishwasher has a stainless steel exterior. a stainless steel cleaner is recommended.

#### ***Cleaning the interior***

Hard water minerals can cause a white film to build up on the inside surfaces. especially just beneath the door area.

Do not clean the dishwasher interior until it has cooled. Wear rubber gloves. Do not use any type of cleanser other than dishwasher detergent because it may cause foaming or sudsing.

#### ***To clean interior***

Make a paste with powdered dishwasher detergent on a damp sponge and clean.

#### **OR**

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

#### **OR**

See the vinegar rinse procedure in "Spotting and filming on dishes" in "Troubleshooting."

**NOTE:** Run a Normal cycle with detergent after cleaning the interior.

### **Drain AirGap**

Check the drain air gap anytime your dishwasher isn't draining well.

Some state or local plumbing codes require the addition of a drain air gap between a built-in dishwasher and the home drain system.

If a drain is clogged. the drain air gap protects your dishwasher from water backing up into it.

The drain air gap is usually located on top of the sink or countertop near the dishwasher. To order a drain air gap, call your local dealer; or call us or your designated service center and ask for Part Number 300096. For more information, see "Assistance or Service."

**NOTE:** The drain air gap is an external plumbing device that is not part of your dishwasher. The warranty provided with your dishwasher does not cover service costs directly associated with the cleaning or repair of the external drain air gap.

### ***To clean the drain air gap***

Clean the drain air gap periodically to ensure proper drainage of your dishwasher. Follow the cleaning instructions provided by the manufacturer. With most types, you lift off the chrome cover.

Unscrew the plastic cap. Then check for any soil buildup. Clean if necessary.

### **Storing**

#### ***Storing for the summer***

Protect your dishwasher during the summer months by turning off the water supply and power supply to the dishwasher.

#### ***Winterizing your dishwasher***

Protect your dishwasher and home against water damage due to freezing water lines. If your dishwasher is left in a seasonal dwelling or could be exposed to near freezing temperatures, have your dishwasher winterized by authorized service personnel.

## **TROUBLESHOOTING**

**First try the solutions suggested here and possibly avoid the cost of a service call**

### **Dishwasher is not operating properly**

#### **• Dishwasher does not run or stops during a cycle**

Is the door closed tightly and latched?

Is the right cycle selected? Refer to the "Cycle Selections" in the Consumer Reference Guide.

Is there power to the dishwasher? Has a household fuse blown, or has a circuit breaker tripped? Replace the fuse or reset the circuit breaker. If the problem continues, call an electrician.

Has the motor stopped due to an overload? The motor automatically resets itself within a few minutes. If it does not restart, call for service.

Is the water shutoff valve (if installed) turned on?

It is normal for certain cycles to repeatedly pause for several seconds during the main wash.

#### **• Clean light is flashing**

The dishwasher has malfunctioned. Call for service to check heater circuit.

- **Dishwasher will not fill**

Is the overflow protection float able to move up and down freely? Press down to release.

- **Dishwasher seems to run too long**

Is the water supplied to the dishwasher hot enough? The dishwasher runs longer while heating water. Refer to the "Performance Tips" section.

A delay automatically occurs in some wash and rinse cycles until the water reaches the proper temperature.

- **Water remains in the dishwasher**

Is the cycle complete?

- **Detergent remains in the covered section of the dispenser**

Is the cycle complete?

Is the detergent lump-free? Replace detergent if necessary.

- **White residue on the front of the access panel**

Was too much detergent used? Refer to the "Detergent Dispenser" section.

Is the brand of detergent making excess foam? Try a different brand to reduce foaming and eliminate buildup.

- **Odor in the dishwasher**

Are dishes washed only every 2 or 3 days? Run a rinse cycle once or twice a day until you have a full load.

Does the dishwasher have a new plastic smell? Run a vinegar rinse as described in "Spotting and filming on dishes" later in this Troubleshooting guide.

- **Condensation on the kitchen counter (built-in models)**

Is the dishwasher aligned with the countertop? Moisture from the vent in the dishwasher console can form on the counter. Refer to the Installation Instructions for more information.

### **Dishes are not completely clean**

- **Food soil left on the dishes**

Is the dishwasher loaded correctly? Refer to the "Loading" section in the Consumer Reference Guide.

Did you choose the cycle that describes the most difficult soil in your dishwasher? If you have some items with heavier soils, use a heavier cycle. Is the water temperature too low? For best dishwashing results, water should be 120°F (49°C) as it enters the dishwasher. Refer to the "Performance Tips" section.



Did you use the correct amount of fresh detergent? Use recommended dishwasher detergents only. Refer to the "Detergent Dispenser" section. Do not use less than 1 tb (15 g) per load. Detergent must be fresh to be effective. Store detergent in a cool, dry area. Heavy soil and/or hard water generally require extra detergent.

Is detergent caked in dispenser? Use fresh detergent only. Do not allow detergent to sit for several hours in a wet dispenser. Clean dispenser when caked detergent is present. Is the pump or spray arm clogged by labels from bottles and cans?

Is the home water pressure high enough for proper dishwasher filling? Home water pressure should be 20 to 120 psi (138 to 828 kPa) for proper dishwasher fill. If you have questions about your water pressure, call a licensed, qualified plumber.

Are high suds slowing the wash arm? Do not use soap or laundry detergents. Use recommended dishwasher detergents only.

## **Spots and stains on dishes**

### **• Spotting and filming on dishes**

Is your water hard or is there a high mineral content in your water? Conditioning the final rinse water with a liquid rinse aid helps eliminate spotting and filming. Keep the rinse aid dispenser filled. Always use a high-temp option. If your water hardness is 13 grains or above, it is strongly recommended that you install a home water softener. If you do not wish to drink softened water, have the softener installed onto your hot water supply.

Is the water temperature too low? For best dishwashing results, water should be 120°F (49°C) as it enters the dishwasher. Refer to the "Performance Tips" section.

Did you use the correct amount of effective detergent? Use recommended dishwasher detergents only. Refer to the "Detergent Dispenser" section. Do not use less than 1 tb (15 g) per load. Detergent must be fresh to be effective. Store detergent in a cool, dry area. Heavy soil and/or hard water generally require extra detergent.

Is the home water pressure high enough for proper dishwasher filling? Home water pressure should be 20 to 120 psi (138 to 828 kPa) for proper dishwasher fill. If you have questions about your water pressure, call a licensed, qualified plumber.

**NOTE:** To remove spots and film from dishes, try a white vinegar rinse. This procedure is intended for occasional use only. Vinegar is an acid, and using it too often could damage your dishwasher.

1. Wash and rinse dishes. Use an air-dry or an energy saving dry option. Remove all silverware or metal items.
2. Put 2 cups (500 mL) white vinegar in a glass or dishwasher-safe measuring cup on the bottom rack.
3. Run the dishwasher through a complete washing cycle using an air-dry or an energy saving dry option. Do not use detergent. Vinegar will mix with the wash water.

- **Silica film or etching (silica film is a milky, rainbow-colored deposit; etching is a cloudy film)**

Sometimes there is a water/chemical reaction with certain types of glassware. This is usually caused by some combination of soft or softened water, alkaline washing solutions, insufficient rinsing, overloading the dishwasher, and the heat of drying. It might not be possible to prevent the problem, except by hand washing.

To slow this process use a minimum amount of detergent but not less than 1 tb (15 g) per load. Use a liquid rinse aid and underload the dishwasher to allow thorough rinsing. Silica film and etching are permanent and cannot be removed. Do not use heated drying.

- **White spots on cookware with nonstick finish**

Has the dishwasher detergent removed cookware seasoning? Reseason cookware after washing in the dishwasher.

- **Brown stains on dishes and dishwasher interior**

Does your water have high iron content? Rewash dishes using 1-3 tsp (5-15 mL) of citric acid crystals added to the covered section of the detergent dispenser. Do not use detergent. Follow with a Normal wash cycle with detergent. If treatment is needed more often than every other month, the installation of an iron removal unit is recommended.

- **Black or gray marks on dishes**

Are aluminum items rubbing dishes during washing?

Disposable aluminum items can break down in the dishwasher and cause marking. Hand wash these items. Remove aluminum markings by using a mild abrasive cleaner.

- **Orange stains on plastic dishes or dishwasher interior**

Are large amounts of tomato-based foods on dishes placed in the dishwasher? It may be necessary to use a stain removal product to remove stains from your dishwasher. Stains will not affect dishwasher performance.

### ***Dishes do not dry completely***

- **Dishes are not dry**

Did you load your dishwasher to allow proper water drainage? Do not overload. Refer to the "Loading" section in the Consumer Reference Guide. Use a liquid rinse aid to speed drying.

Are the plastics wet? Plastics often need towel drying.

Is the rinse aid dispenser empty? Refer to the "Rinse Aid Dispenser" section.

Did you use an air-dry or energy-saving dry option? Use a heated drying option for dryer dishes.

### ***Dishes are damaged during a cycle***

- **Chipping of dishes**

Did you load the dishwasher properly? Load the dishes and glasses so they are stable and do not strike together from washing action. Minimize chipping by moving the rack in and out slowly.

**NOTE:** Antiques, feather-edged crystal, and similar types of china and glassware might be too delicate for automatic dishwashing. Wash by hand.

### **Noises**

#### **• Grinding, grating, crunching or buzzing sounds**

A hard object has entered the wash module (on some models). When the object is ground up, the sound should stop. If the noise persists after a complete cycle, call for service.

## **KITCHENAID®DISHWASHER WARRANTY**

### **ONE YEAR LIMITED WARRANTY**

For one year from the date of purchase, when this major appliance is operated and maintained according to instructions attached to or furnished with the product, KitchenAid or KitchenAid Canada (hereafter "KitchenAid") will pay for factory specified parts and repair labor to correct defects in materials or workmanship. Service must be provided by a KitchenAid designated service company.

### **SECOND THROUGH FIFTH YEAR LIMITED WARRANTY ON CERTAIN COMPONENT PARTS**

In the second through the fifth year from the date of purchase, when your major appliance is installed, operated and maintained according to instructions attached to or furnished with the product, KitchenAid will pay for factory specified parts for the following components if defective in materials or workmanship: nylon dish racks, wash and drain motor, electronic controls and heating element.

### **LIFETIME LIMITED WARRANTY ON STAINLESS STEEL TUB AND INNER DOOR**

For the lifetime of the product from the date of purchase, when your major appliance is installed, operated and maintained according to instructions attached to or furnished with the product, KitchenAid will pay for factory specified parts and repair labor to correct defects in materials or workmanship. Service must be provided by a KitchenAid designated service company.

### **ITEMS KITCHENAID WILL NOT PAY FOR**

1. Service calls to correct the installation of your major appliance, to instruct you how to use your major appliance, to replace or repair house fuses or to correct house wiring or plumbing.
2. Service calls to repair or replace appliance light bulbs, air filters or water filters. Those consumable parts are excluded from warranty coverage.
3. Repairs when your major appliance is used for other than normal, single-family household use.
4. Damage resulting from accident, alteration, misuse, abuse, fire, flood, acts of God, improper installation, installation not in accordance with electrical or plumbing codes, or use of products not approved by KitchenAid.

5. Replacement parts or repair labor costs for units operated outside the United States or Canada.
6. Pickup and delivery. This major appliance is designed to be repaired in the home.
7. Repairs to parts or systems resulting from unauthorized modifications made to the appliance.
8. Expenses for travel and transportation for product service in remote locations.
9. The removal and reinstallation of your appliance if it is installed in an inaccessible location or is not installed in accordance with published installation instructions.

#### **DISCLAIMER OF IMPLIED WARRANTIES; LIMITATION OF REMEDIES**

CUSTOMER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR AS PROVIDED HEREIN. IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR OR THE SHORTEST PERIOD ALLOWED BY LAW. KITCHENAID SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS. SO THESE EXCLUSIONS OR LIMITATIONS 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 OR PROVINCE TO PROVINCE.

Outside the 50 United States and Canada, this warranty does not apply. Contact your authorized KitchenAid dealer to determine if another warranty applies.

#### **Warning**

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.