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Loaded right, dishes get cleaner—page 3-5

Energy-saving tips—page 3 ****
What is dishwasher safe?—page 6

Save Time and Money—
Before you call for service,
use the Problem Solver
on pages 8-12.

Use and Care
of
Automatic
Dishwasher
with
Tuff Tub®

Space-Saver Undersink Model



Your Direct Line to General Electric The GE Answer Center 800,626,2000 49-5301-1

GENERAL SE ELECTRIC

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Read this book and the separate Operating Instruction Leaflet carefully They are designed to help you operate and

maintain your new dishwasher properly.

Keep them handy for answers to your questions.

If you don't understand something or need more help...Call, toll free:
The GE Answer CenterTM
800.626.2000
consumer information service

or write (include your phone number) Consumer Affairs General Electric Company Appliance Park Louisville, KY 40225

Write down the model and serial numbers.

You'll find them on a label on the side of the dishwasher door.

These numbers are also on the Consumer Product Ownership Registration card that came with your dishwasher. Before sending in this card, please write these numbers here:

Model No.

Serial No.

Use these numbers in any correspondence or service calls concerning your dishwasher.

If you received a damaged dishwasher, immediately contact the dealer (or builder) that sold you the dishwasher.

Save time and money...before you call for service.

Check the Problem Solver (pages 8-12). It lists minor causes of operating problems that you can correct yourself. It could save you an unnecessary service call.

Important Safety Instructions Read all instructions before using this appliance

WARNING—When using this appliance, always exercise basic safety precautions, including the following:

- Use this appliance only for its intended purpose as described in the Operating Instructions and this Use and Care Book.
- This dishwasher must be properly installed and located in accordance with the installation Instructions before it is used. If you did not receive an Installation Instructions sheet with your dishwasher you can obtain one by contacting the service location nearest you.
- This appliance 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 of the appliance.
- —Connect to a properly rated, protected and sized power-supply circuit to avoid electrical overload.
- Use only detergents or wetting agents recommended for use in a dishwasher.
- Do not wash plastic items unless marked "dishwasher safe" or the equivalent. For plastic items not so marked, check the manufacturer's recommendations.
- •Load light plastic items so they will not become dislodged and drop to the bottom of the dishwasher—they might come into contact with the heating unit and be damaged.

To minimize the possibility of injury.

- When loading items to be washed:
 - A. Locate sharp items so that they are not likely to damage the door seal, and
 - B. Load sharp knives with the handles up to reduce a risk of cut-type injuries.

- Do not touch the heating element during or immediately after use.
- Do not operate your dishwasher unless all enclosure panels are properly in place.
- Do not tamper with controls.
- Do not abuse, sit on, or stand on the door or dish rack of the dishwasher.
- Close supervision is necessary if this appliance is used by or near children. Do not allow children to play inside, on or with this appliance or any discarded appliance. Dispose of discarded appliances and shipping or packing material properly. Before discarding a dishwasher, remove the door of the washing compartment.
- Keep all washing detergents and wetting agents out of the reach of children, preferably in a locked cabinet. Observe all warnings on container labels to avoid personal injury.
- **HYDROGEN GAS** is produced by the chemical action within your water heater and the gas can accumulate in the water heater and/or water pipes if hot water has not been used for a period of two weeks or longer. HYDROGEN GAS IS EXPLOSIVE. So to prevent the possibility of damage or injury, if you have not used hot water for two weeks or more, or move into a residence in which the hot water system may not have been used for some time, turn on all hot water faucets and allow them to run for several minutes before using any electrical appliance which is connected to the hot water system. This will allow any hydrogen gas to escape. Of course, since the gas is flammable, do not smoke or use an open flame or appliance during this process.

Energy-Saving Tips

The power consumption of your dishwasher can be minimized if you follow these suggestions.

• A dishwasher will usually hold a whole day's dishes. To save electric power as well as time, detergent and water, operate the dishwasher only when it is full. When you have only a partial load and you do not plan to wash dishes until the dishwasher is full, rinse heavy soils off dishes and utensils before loading, and be sure to rinse off

silverware to prevent it from tarnishing.

- Always select the shortest cycle that will remove the soil from the load.
- When fast drying of dishes is not necessary, turn dishwasher off when wash and rinse portion of the cycle is finished. Some models have an Energy Saver pushbutton that does this automatically.

For Best Results

- <u>Hot Water is a must</u>. Use only hot water in your dishwasher—water entering tub should be between 140° and 150° F. See how to measure water temperature on page 9.
- <u>Automatic Dishwasher Detergent is a must.</u> Use only fresh detergents designed for automatic dishwashers (see page 7). Do not use old detergent that is very hard or caked in the container.



How To Prepare Your Tableware, Pots And Pans

Hard food wastes, such as bones and corn cobs, must be removed. These belong in a food waste disposer. Large amounts of food soil on tableware must be removed—particularly starchy foods such as mashed potatoes, rice or cooked

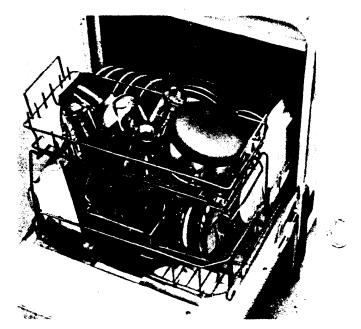
cereals, because they do not readily dissolve in water. Loosen baked-on food from utensils and casserole dishes by soaking in hot water before loading them into dishwasher.

How To Load Your Dishwasher

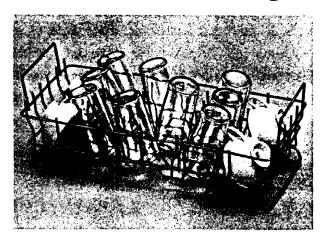
This is a random "mixed-load"... the most common type you will have.

Both racks of your dishwasher may be loaded at random as illustrated. As you pull out the racks, you'll find the upper rack rests on the lower rack supports. When loading the dishwasher, set the upper rack on your countertop and load it there. Fill the lower rack in the dishwasher.

Pots and pans, casseroles and other items with heavy, dried-on and baked-on soils must be loaded in the lower rack with the open end down, facing directly toward the wash arm below the lower rack. Shallow items may be angled provided the lower side does not shield soiled surface inside from direct water action. Lightly-soiled items may be loaded in either the upper or lower rack, with the soiled surfaces facing downward toward the center as illustrated.

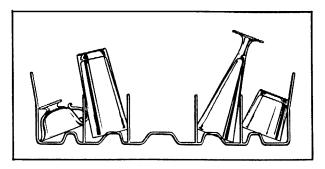


Loading the Upper Rack

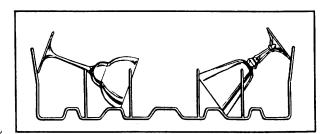


GLASSES, CUPS, SAUCE DISHES

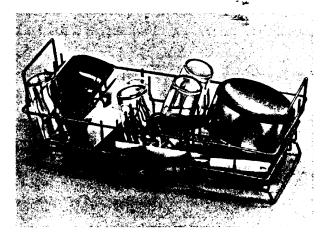
Load glasses, cups, saucers, dishwasher-safe plastic and wood items in the upper rack of your dishwasher, using these illustrations as a guide.



Load shallow items such as cups and small glasses along sides of upper rack. Tall, deep glasses should be loaded in the second rows of vertical pins so they rest firmly against the pins as shown.



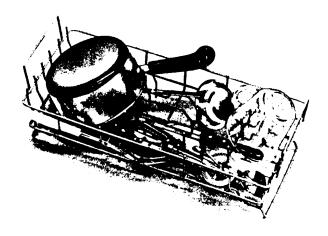
Position stemware in the upper rack as shown so the bowl rests against the vertical pins and the base against the side. Do not allow items to touch each other.



UTENSILS AND BOWLS

Saucepans and lids, beaters, spatulas, mixing bowls and other small food preparation items may be placed at random in the upper rack. Remember, when loading any item, it should face toward the water source, in the center.

Notice deep items are loaded open-end down so soiled surfaces face directly toward primary wash arm.



Load small pots, pans and bowls along with other items in upper rack.

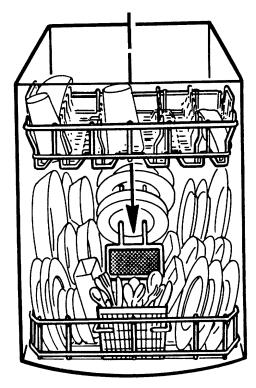
Long-handled cooking forks, spoons and other flat utensils are placed flat in rack with soiled surface facing downward.

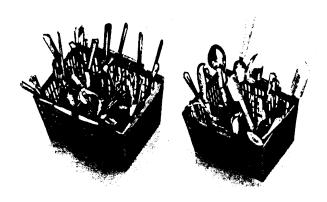
Loading the Lower Rack

IMPORTANT

Wash Tower rises through center of lower rack during wash and rinse portion of cycle to wash upper rack.

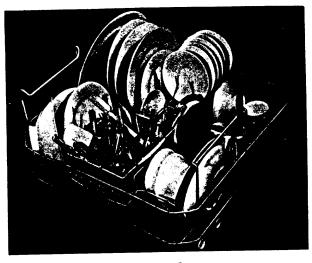
Do not block this area of lower rack, or load tall items directly beside it.





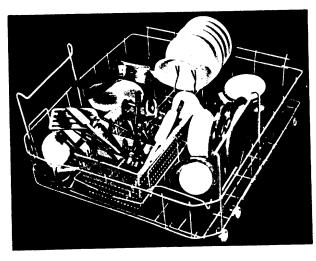
SILVERWARE

Place silverware in basket with handles up to protect your hands when unloading. Best washing results are obtained when silverware is mixed and evenly distributed, not nested together. Be sure slender items do not protrude through bottom of basket.



PLATES AND SAUCERS

Plates and saucers fit between the pins, as shown. Load platters along the sides, in corners or in the back. Do not place large dishes across the front of the rack preventing water from reaching the Dual Detergent Dispenser. Placing glasses in the lower rack is not recommended due to the powerful water action.



UTENSILS

ITEMS WITH HEAVY, DRIED-ON AND BAKED-ON SOILS SUCH AS POTS, PANS AND CASSEROLES MUST BE LOADED IN THE LOWER RACK WITH THE OPEN END DOWN, FACING DIRECTLY TOWARD THE WASH ARM BELOW THE LOWER RACK.

Shallow items may be angled provided the lower side does not shield soiled surface inside from direct water action.

You will probably have to tilt the broiler pan to clear the upper rack.



Washing Special Items

CHINA

China is normally safe in your automatic dishwasher. However, antique, metal trimmed, hand painted china or over-the-glaze patterns are vulnerable to fading with high water temperature and detergent solutions and should not be washed in a dishwasher.

If there is any question, check with the manufacturer of the chinaware, or test wash one piece daily for at least one month for comparison with the rest of the set.



CRYSTAL

Load securely to prevent movement. On models equipped with a China & Crystal cycle, the powerful water action is reduced with aeration to help prevent items from being knocked into each other.

PLASTICS

Most manufacturers will tell you if their plastic ware is safe in the dishwasher; if they do not, you may wish to write and ask for their recommendations. Test one piece in the dishwasher before washing the entire set. Place in the upper rack and eliminate the heated dry part of the cycle to reduce the risk of warping.

Teflon-coated items may be washed in the dishwasher. After washing, wipe the Teflon area with vegetable oil to retain its no-stick properties.

FLATWARE

Normally sterling silver, silverplate and stainless steel flatware are quite safe in the dishwasher.

METALS

NOTE: Dry detergent on aluminum and silver may cause black spots which are difficult to remove. Avoid placing them under the detergent cup.

STAINLESS STEEL utensils and tableware wash beautifully in a dishwasher.

ALUMINUM WARE will clean satisfactorily in your dishwasher. Some darkening or spoting of aluminum may take place due to the mineral content of the water and detergent. If this happens, scour all surfaces with soap-filled steel wool pads.

Some colored anodized aluminum can fade in the dishwasher.

IRON SKILLETS should not be placed in the dishwasher. In order to prevent their rusting, they are oil-seasoned by the manufacturer. The highly efficient washing action in your Dishwasher will remove this seasoning.

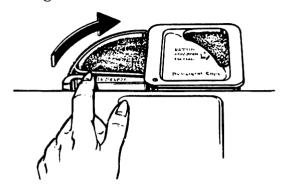
PEWTERWARE should not be placed in dishwasher—it will tarnish.

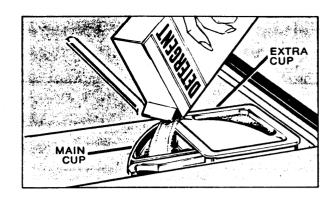
WOOD

Because wood may warp, crack or lose its finish with ordinary washing, there is a possibility this might happen more quickly in a dishwasher.

Fill the Dual Detergent Dispenser

This dispenser has two sections (one covered) because some cycles include two washes. Use the following chart as a guide for the amount of detergent to use.





The Dual Detergent Dispenser is located inside the dishwasher door.

Add detergent to cups as recommended below and swing cover closed on the ALL WASH CYCLES cup.

WATER HARDNESS

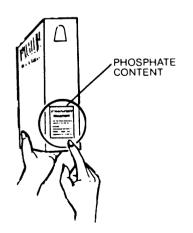
Your local water department or area water softener company can tell you the hardness of your water.

CYCLES	SOFT WATER (0-3 grains hardness)	MEDIUM (4-9 grains)	HARD (10-15 grains)*
Normal Cycle	Use both the main and extra cups 1 tablespoon minimum.	Fill both the main and extra cups 1/2 full	Fill both the main and extra cups completely
Short Cycle	Use main cup only 1 tablespoon minimum.	Fill the main cup only 1/2 full	Fill the main cup completely

Detergent brands have varying amounts of phosphates. Phosphate is a water softening ingredient in detergents which can help prevent hard water minerals from forming spots or films on dishes, glasses, etc. You may need to increase detergent when the phosphate content is low (8.7% or less) and the water is hard (10 grains or more). Read the detergent package label directly under the pouring spout, to find the phosphate content.

IMPORTANT: Do not put detergent into the dispenser until you're ready to wash dishes. Fresh, dry detergent is necessary for best washing results. REMEMBER: Use only detergents designed for automatic dishwashers.

*Extremely Hard (15 grains and up). Water softener is recommended; detergent alone may not be enough. In extreme conditions, lime may build up over time in the water valve, causing it to stick open and possibly flood if a water softener is not used.





Care and Cleaning of Your Dishwasher

CARE OF EXTERIOR FINISHES

ing pads which may scratch finish.

The Dishwasher cabinet is finished with durable baked-on synthetic enamel. Use high grade wax cleaner. Avoid harsh or gritty cleaners or scour-

CARE OF INTERIOR

Normally the interior is self-cleaning. Avoid scouring pads and harsh cleansers which may mar finish. Use a mild cleansing powder.

Preparation of Dishwasher for Winter Storage

If dishwasher is to be left unused in unheated location during winter months, have service technician take the following steps to prevent machine from freezing:

- Remove fuses or trip circuit breakers to remove electric power from dishwasher.
- Turn off water supply to dishwasher and drain water inlet line.
- Remove water valve from dishwasher and blow on small plastic outlet to remove water.
- Remove plug in bottom of rubber boot and drain completely.



The Problem Solver

To Save Time and Money—before you call for service, check the Problem Solver

If you have a problem, it may be minor. You may be able to correct it yourself. Just use this Problem Solver to locate your problem and then follow the suggested recommendations.

PROBLEM	POSSIBLE CAUSE AND REMEDY
DISHWASHER WILL	Make sure door latch is closed completely.
NOT RUN	House fuse may be blown, or circuit breaker may be open. Replace fuse or reset circuit breaker. Remove other appliances from circuit.



UNUSUAL NOISE

Utensils may not be firmly placed and water forces them to rattle.

An especially small item may have moved from its original place. Be sure all items are securely placed in dishwasher.

(continued next page)

DISHES DO NOT DRY

Water temperature too low. For best results, temperature should be 140°F. to 150°F.

Unload lower rack first—water from items in upper rack may fall into lower rack.

Improper loading: Dishes should not nest together. Avoid overloading. Rinse agent dispenser is empty (on dishwashers having this feature). "Drying Heat On" button not pushed (on models equipped with Energy Saver option).

UNCLEAN DISHES AND FLATWARE

Improper water temperature. Water coming into the dishwasher should be 140° to 150°F. Generally, water heater thermostats are adjusted at the factory to provide hot water at a temperature of approximately 150°F.

MEASURE WATER TEMPERATURE AT FAUCET NEAREST DISHWASHER.

Need: Candy or meat thermometer and an 8-ounce glass.

- 1. Place glass under faucet.
- 2. Turn on hot water.
- 3. Put thermometer in glass.
- 4. Let water run until temperature stops rising.
- 5. If water temperature is below 140°, have your water heater adjusted if necessary.

Improperly prepared dishes. Excess food soil should be removed from dishes before loading.

Improper loading. Follow loading directions. Be sure dishwasher is not overloaded. Make sure dishes or utensils do not block spray arms or telescoping spray tower.

Improper detergent, insufficient amount, or old detergent. Do not use detergent that is hard or caked. Use only fresh detergents designed for automatic dishwashers. See page 7.

Insufficient amount of water coming into the dishwasher. Check water pressure; if low, wait until pressure is correct before operating dishwasher.



POSSIBLE CAUSE AND REMEDY

DETERGENT LEFT IN DETERGENT DISPENSER

Action of water may be obstructed. Load dishwasher according to directions. Be sure that a large plate or other item is not placed directly in front of Detergent Dispenser.

Dispenser cover may not open. Tall item in silverware basket may be resting against cup, preventing it from opening.

Detergent may be old. If very hard or caked in container, do not use.

Certain brands of detergents may perform better than others; try another brand.



You may notice some water spotting when you first get your dishwasher. However, this spotting should cease after you have used the dishwasher for a while. Automatic dishwashing will remove the invisible grease film acquired from hand dishwashing. If spotting persists, the cause may be one or more of the following:

- Extremely hard water
- Low water temperature
- Overloading
- Improper loading
- Use of too little detergent
- Use of too much detergent
- Use of old detergent
- Use of low-phosphate detergent

Rinse agent container empty (on dishwashers having this feature). Check level. Fill if necessary. On models not having this, a solid wetting agent may be used.

Use of low-phosphate detergent: see page 7.

Due to varying local water conditions and personal preferences, please try several brands of suggested detergents to find one that gives the best results for you. See page 7.

Detergent dispenser does not open. Open cup manually and remove caked detergent. If cup still does not open automatically, call serviceman to adjust.

Water is not hot enough — it should be between 140 $^{\circ}$ F. and 150 $^{\circ}$ F. as it enters the dishwasher.

(continued next page)



POSSIBLE CAUSE AND REMEDY

TO REMOVE SPOTS AND FILM

Try a vinegar rinse. Remove all metal utensils and wash load as usual but omit the dry portion of the cycle. With load still in dishwasher, set a bowl containing 2 cups (500 ml) of white vinegar on bottom rack. Run dishwasher through a complete cycle.

ETCHING

Caused by using too much detergent in soft water. This milky filmlike surface cannot be removed because metal ions have been removed from the surface of the glass. To prevent this problem, use less detergent when your water supply is naturally soft or when you use a water softener. Also, wash glassware in shortest cycle that will get them clean.

YELLOW OR BROWN FILM FORMATION

Tea or coffee stains in cups can be removed by hand using a solution of 1/2 cup bleach and 3 cups of warm water.

An over-all yellow or brown film on dishes can be caused by iron deposits in water. Glassware becomes yellow or brown but is still transparent. The installation of an iron filter in the water supply line removes the cause of this problem and is the only permanent solution. For more complete information, contact your local water conditioning company.

Yellow film on sterling silver can result when copper utensils are washed in the same load.

CHIPPING OF CHINA AND GLASSWARE

Rough handling of dishes will cause chipping. Load with care. Seat dishes firmly in the racks so they cannot be dislodged. Glasses must lean against the pins, and the rim of the glass should rest on the bottom of the rack. When placing tall glassware and stemware in the dishwasher, check to make certain that they will clear the top of the tub. Glasses and stemware should always be piaced in the upper rack. NEVER in the lower rack. (See section on loading)

WATER STANDS IN SUMP AT BOTTOM OF TUB

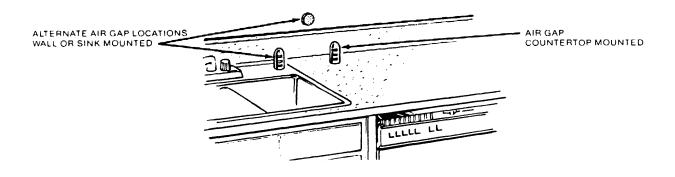
Water remaining in the sump at end of cycle is normal. This water is clean and keeps the pump primed and the water seal moist and active.

WATER CAN'T PUMP OUT

Some state or local plumbing codes require the use of a drain air gap between a built-in dishwasher and the drain system of the home. This plumbing device is not part of the dishwasher. The air gap usually located on top of the sink or countertop near the dishwasher is to prevent the possibility of backflow into the dishwasher in the event of a clogged drain system.

THE DISHWASHER WARRANTY DOES NOT COVER SERVICE COST TO CLEAN OR REPAIR A DRAIN AIR GAP.

Most air gaps are simple to inspect and to clean when necessary. Most models can be cleaned by lifting off a chrome cover and unscrewing a plastic cap and then removing any material that may have accumulated. This procedure should be followed any time the dishwasher fails to drain properly.



SUDS IN TUB

Use of high-sudsing detergent. Use only automatic dishwasher detergents. To remove suds from tub: open dishwasher and allow suds to dissipate. Add 1 gallon of cold water to tub and close dishwasher. Pump out water by slowly turning the control dial until a drain period is reached.



DISHWASHER LEAKS

Use of detergent not designed for automatic dishwashers, especially sudsing type. Unnecessary use of wetting agent. See page 7.

If you need service.

In many cities, there's a General Electric Factory Service Center. Call, and a radio dispatched truck will come to your home by appointment — morning or afternoon. Charge the work, if you like. All the centers accept both MasterCard and Visa Cards.

Check the White Pages for "GENERAL ELECTRIC COMPANY" or "GENERAL ELECTRIC FACTORY SERVICE."

Or look for General Electric franchised Customer Care® servicers. You'll find them in the Yellow Pages under "GENERAL ELECTRIC CUSTOMER CARE® SERVICE" or "GENERAL ELECTRIC— HOTPOINT CUSTOMER CARE® SERVICE."

If you need service literature, parts lists, parts or accessories, contact one of the Factory Service Centers, a franchised Customer Care® servicer or your dealer.

If you are dissatisfied with the service you received, here are three steps you should follow:

FIRST, contact the people who serviced your appliance. Explain why you are dissatisfied. In most cases, this will solve the problem.

NEXT, if you are still dissatisfied, write all the details — including your phone number — to: Manager, Consumer Relations General Electric Company Appliance Park Louisville, Kentucky 40225

FINALLY, if your problem is still not resolved, write: Major Appliance Consumer Action Panel 20 North Wacker Drive Chicago, Illinois 60606

This panel, known as MACAP, is a group of independent consumer experts under the sponsorship of several industry associations. Its purpose is to study practices and advise the industry of ways to improve customer service. Because MACAP is free of industry control and influence, it is able to make impartial recommendations, considering each case individually.

How to do away with surprise repair bills.

Your new appliance is a well designed and engineered product. Before it left the factory, it went through rigorous tests, just to make sure it was as defect-free as possible. And you have a warranty (see back page of this book) to protect you against any manufacturing defects during the early period of your appliance's life.

Now you can have the same trouble-free and surprise-free service beyond the warranty period. You can buy a General Electric Service Contract. For one low fee...usually just pennies a day...General Electric will take care of any repairs your appliance needs—both parts and labor. You are protected for the length of your contract. Even when costs so up, you pay nothing more.

Want more information? There's no obligation. You can get information on Service Contracts any time. Just write your name and address, date of installation, and the model and serial number of your appliance and send to:

Manager, Service Contracts General Electric Company Appliance Park Louisville, Kentucky 40225

General Electric Helps the Do-It-Yourselfer

If you're the kind of person who likes to doit-yourself—or if you're interested in saving money on out-of-warranty repairs—General Electric now offers some real help:

Step-by-Step Repair Manual

You can use this manual to solve common repair problems. GE makes it easy because your manual contains important do-it-yourself information:

- charts to help you diagnose problems
- easy to understand instructions
- step-by-step photos with repair procedures
- a skill level index
- the recommended tools needed to perform repairs

Replacement Parts

When repairing your appliance, we recommend GE replacement parts. Each part is packaged in a color coded box with:

- easy parts identification
- estimated time of repairs
- step-by-step instructions
- recommended tools

Where to Purchase Step-by-Step Repair Manuals and Parts

You can purchase GE repair manuals and replacement parts for your appliance from authorized participating General Electric dealers.

NOTE: Of course, repairs should be attempted only by individuals possessing adequate backgrounds of electrical, electronic and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage.

The electronic controls contain solid-state devices and are not intended for consumer repair.

YOUR GENERAL ELECTRIC AUTOMATIC DISHWASHER WARRANTY

Save proof of original purchase date such as your sales slip or cancelled check to establish warranty period.

WHAT IS COVERED

FULL ONE-YEAR WARRANTY

For one year from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the dishwasher that fails because of a manufacturing defect.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for ordinary home use in the 48 mainland states, Hawaii and Washington, D.C. In Alaska the warranty is the same except that it is LIMITED because you must pay to ship the product to the service shop or for the service technician's travel costs to your home.

All warranty service will be provided by our Factory Service Centers or by our franchised Customer Care® servicers during normal working hours. Check the White Pages for GENERAL ELECTRIC COMPANY or GENERAL ELECTRIC FACTORY SERVICE. Look in the Yellow Pages for GENERAL ELECTRIC CUSTOMER CARE® SERVICE or GENERAL ELECTRIC-HOTPOINT CUSTOMER CARE® SERVICE.

WHAT IS NOT COVERED

- Service trips to your home to teach you how to use the product. Read your Use and Care material. If you then have any questions about operating the product, please contact your dealer or our Consumer Affairs office at the address below, or call toll free: The GE Answer Center™ 800.626.2000 consumer information service
- Improper installation.

 If you have an installation problem, contact your dealer or installer.

 You are responsible for providing adequate electrical, plumbing and other connecting facilities.

- Replacement of house fuses or resetting of circuit breakers.
- Cleaning or servicing of air gap device in drain line.
- Failure of the product if it is used for other than its intended purpose or used commercially.
- Damage to product caused by accident, fire, floods or acts of God.

WARRANTOR IS *NOT* RESPONSIBLE FOR CONSEQUENTIAL DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are in your state, consult your local or state consumer affairs office or your state's Attorney General.

Warrantor: General Electric Company

If further help is needed concerning this warranty, contact:

Manager—Consumer Affairs, General Electric Company, Appliance Park, Louisville, KY 40225

Part No. 218A3665 P36-Rev. 1

Pub. No. 49-5301 -1

