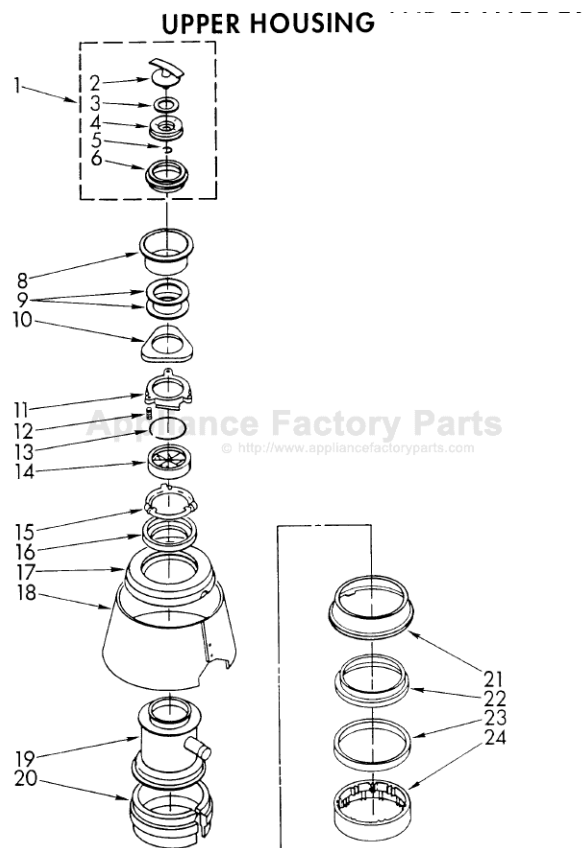


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# KITCHENAID KCDS250S1 Owner's Manual

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KCDS250S1](#)



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----- Manual continues below -----

# KitchenAid®

## Food-Waste Disposer

# Installation Instructions

**IMPORTANT:**  
Read and save these instructions.

**IMPORTANT:**

**Installer:** Leave Installation Instructions with the homeowner.

**Homeowner:** Keep Installation Instructions for future reference.

**Save** Installation Instructions for local electrical inspector's use.

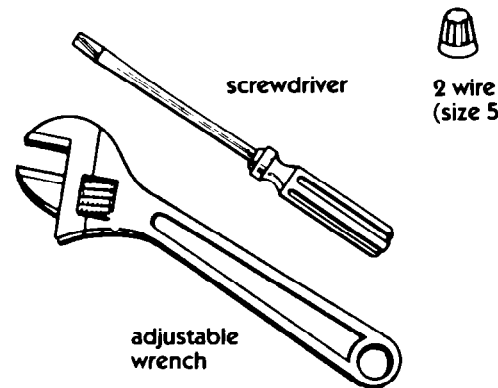
### Before you start...

**Read the Electrical and Plumbing Installation Instructions.**

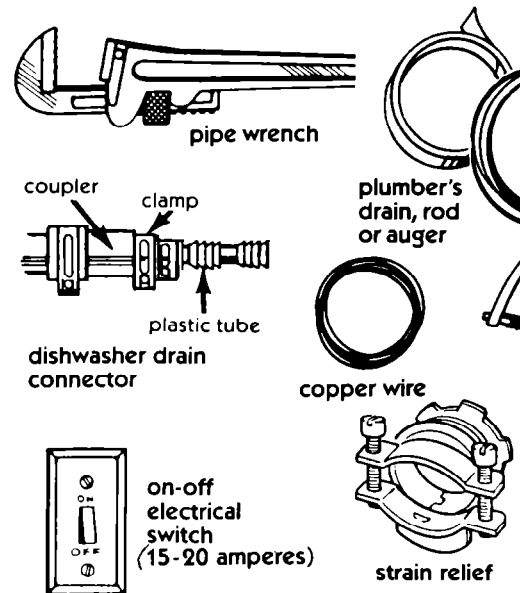
Proper installation is your responsibility. A qualified technician should install this disposer. Make sure you have everything necessary for correct installation. It is the customer's responsibility to contact qualified electrical and plumbing installers to assure installation is correct and meets all local codes.

KitchenAid® St. Joseph, Michigan 49085

### Tools and materials for installation:



### Optional tools and materials needed for some installations:



**KitchenAid®**  
For the way it's made.

# Start the installation

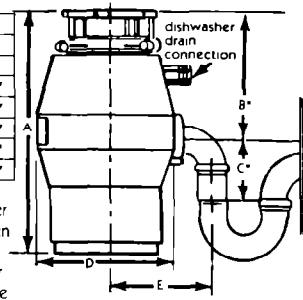
## Installation dimensions

### Garbage Disposer Dimensions

| MODEL No. | A                                 | B*                               | C* | D                                 | E                                |
|-----------|-----------------------------------|----------------------------------|----|-----------------------------------|----------------------------------|
| KCDB150   | 11 <sup>3</sup> / <sub>16</sub> " | 5 <sup>1</sup> / <sub>16</sub> " | 4" | 6 <sup>9</sup> / <sub>16</sub> "  | 5"                               |
| KCDB250   | 12 <sup>1</sup> / <sub>16</sub> " | 5 <sup>1</sup> / <sub>16</sub> " | 4" | 6 <sup>7</sup> / <sub>16</sub> "  | 5"                               |
| KCDC150   | 12 <sup>3</sup> / <sub>16</sub> " | 6 <sup>1</sup> / <sub>16</sub> " | 4" | 8 <sup>1</sup> / <sub>16</sub> "  | 5 <sup>3</sup> / <sub>16</sub> " |
| KCDC250   | 12 <sup>3</sup> / <sub>16</sub> " | 6 <sup>3</sup> / <sub>16</sub> " | 4" | 7 <sup>3</sup> / <sub>16</sub> "  | 5 <sup>3</sup> / <sub>16</sub> " |
| KCDI250   | 13 <sup>1</sup> / <sub>16</sub> " | 6 <sup>1</sup> / <sub>16</sub> " | 4" | 9 <sup>1</sup> / <sub>16</sub> "  | 5 <sup>3</sup> / <sub>16</sub> " |
| KCDSE50   | 13 <sup>1</sup> / <sub>16</sub> " | 6 <sup>3</sup> / <sub>16</sub> " | 4" | 10 <sup>1</sup> / <sub>16</sub> " | 7 <sup>3</sup> / <sub>16</sub> " |
| KBDS250   | 16 <sup>1</sup> / <sub>16</sub> " | 9 <sup>1</sup> / <sub>16</sub> " | 4" | 10 <sup>1</sup> / <sub>16</sub> " | 7 <sup>3</sup> / <sub>16</sub> " |

B\* – Distance from bottom of sink to center line of disposer outlet. Add 1/2 inch when stainless steel sink is used.  
C\* – Length of waste line pipe from center line of disposer outlet to end of waste line pipe.

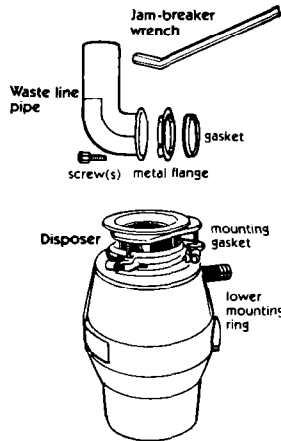
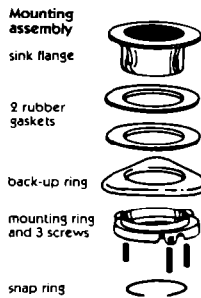
IMPORTANT: Plumb waste line to prevent standing water in the disposer motor housing.



Drawing shows just one model type.

# 1 Check that all parts were included.

Drawing shows just one model type.



# 2 Electrical requirements

Electrical ground is required on this appliance.

### ⚠ WARNING

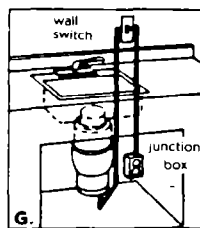
#### ELECTRICAL SHOCK HAZARD

- Electrical ground is required on this appliance.
- Improper connection of the equipment-grounding conductor can result in electrical shock.
- Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.
- Do Not have a fuse in the neutral or grounding circuit. A fuse in the neutral or grounding circuit could result in electrical shock.

Failure to follow these instructions could result in a fire, electrical shock or other personal injury.

- 120 Volt, 60 Hz, AC only, 15 or 20 Ampere fused electrical supply is required. (Time-delay fuse or circuit breaker is recommended.) It is recommended that a separate circuit serving only this appliance be provided.
- THE DISPOSER MUST BE CONNECTED WITH COPPER WIRE ONLY.
- Wire sizes and connections must conform to the requirements of the National Electrical Code, ANSI/NFPA 70-latest edition\* and all local codes and ordinances.
- This appliance should be connected to the fused-disconnect (or circuit breaker) box through flexible, armored or nonmetallic sheathed, copper cable (with grounding wire). The flexible armored cable extending from the appliance should be connected directly to the junction box.

- A U.L.-listed conduit connector must be provided at the junction box.
- It is the personal responsibility and obligation of the customer to contact a qualified electrician to assure that the electrical installation is adequate and is in conformance with the National Electrical Code, ANSI/NFPA 70-latest edition\* and all local codes and ordinances. Copies of the standards listed may be obtained from:  
\* National Fire Protection Association  
Batterymarch Park  
Quincy, Massachusetts 02269
- For continuous feed models: Install a 15- or 20-amp wall switch above the countertop and junction box inside cabinet as shown. (switch and electrical wiring can be obtained locally.) Position switch in a convenient location. Connect switch to junction box.



G.

# 3 Remove old disposer.

### ⚠ WARNING

#### ELECTRICAL SHOCK HAZARD

Disconnect from electrical supply. Failure to do so could result in electrical shock, personal injury, or death.

Compare your new disposer mounting assembly with the existing mounting. If the mounting assemblies are the same, complete Steps 3-A, B, D, E.

- Using a pipe wrench, disconnect the drain line where it attaches to the disposer waste line pipe.
- If old disposer mounting is the same as your new one, insert end of jam-breaker wrench or screwdriver into right side of a disposer mounting ring lug at top of disposer. Hold disposer with other hand. Turn jam-breaker wrench or screwdriver counterclockwise until lug lines up with one of the sink-mounting assembly screws.

### ⚠ CAUTION

#### POTENTIAL PROPERTY DAMAGE

Hold disposer with one hand while turning to prevent it from falling when the mounting ring is disconnected. Failure to do so could result in damage to cabinet or floor.

Remove disposer. Go to Step 3-D.

- Turn disposer upside down and remove the electrical plate.
- If old disposer mounting is different from your new one, remove the nuts on the mounting ring using pliers or an adjustable wrench. Remove old disposer. You may need to remove a clamp or twist the disposer to remove it.

- Turn disposer upside down and remove the electrical plate.

- Use a screwdriver to remove the grounding wire. Remove wire nuts from power wires. Separate disposer power wires from the cable wires. Loosen screw(s) on strain relief and remove cable from the disposer.

If old disposer mounting is the same as your new disposer mounting, go to Step 5.

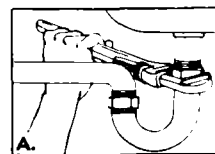
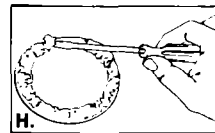
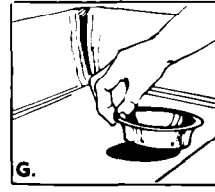
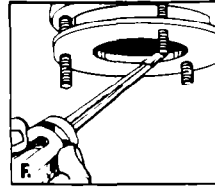
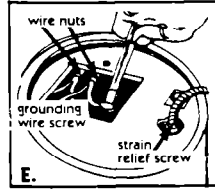
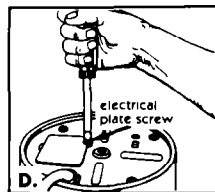
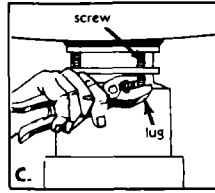
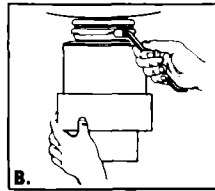
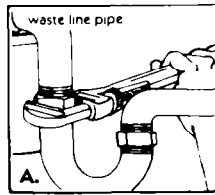
- Loosen screws and remove the mounting ring and back-up rings. A hammer may be needed to loosen rings.

- Push old sink sleeve up through the sink hole and remove.

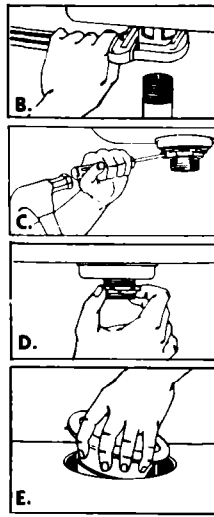
- Clean sealant from sink hole rim using a screwdriver or putty knife to scrape away all traces of putty or caulking from the sink hole rim. Hole rim must be as clean as possible for a good, watertight seal.

# 4 To install your sink's first disposer:

- Use wrench to loosen nut at top of "P"-trap.



- B. Remove nut at top of sink strainer. Remove extension pipe.
- C. Loosen the large-diameter nut at the base of the strainer by placing the tip of a screwdriver on the ridge of the nut and gently tapping the screwdriver with a hammer.

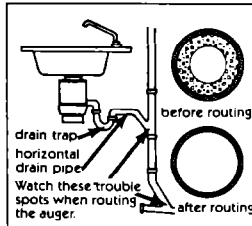


D. Remove nut.

- E. Push the strainer assembly up through the sink hole and remove.

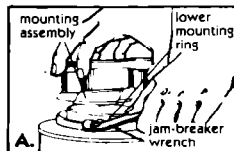
## 5 Clean sink's drain line.

If installing in a new home, go to Step 6. Remove drain trap. Using an auger, clean out the horizontal drain pipe that runs from the trap to the main waste pipe.

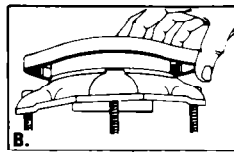


## 6 Separate the mounting assembly.

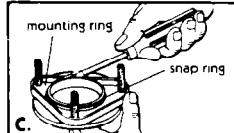
- A. Holding the mounting assembly with one hand, use the other hand to insert jam-breaker wrench into one of the lugs of the lower mounting ring. Turn assembly counter-clockwise and remove.



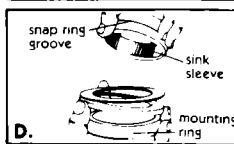
- B. Loosen screws on mounting assembly until they are level with mounting ring surface.



- C. Use screwdriver to pry off snap ring.



- D. Take assembly apart and set aside.

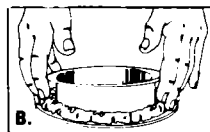


## 7 Apply rubber gasket or putty to sink flange.

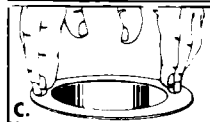
- A. The rubber sink flange gasket should always be used where possible. Place rubber gasket over sink flange. Go to Step 7-C.



- B. If sink opening does not permit the use of a rubber seal, plumber's putty may be used. Form putty into a long roll by rolling it between your hands. Press roll under sink flange rim.



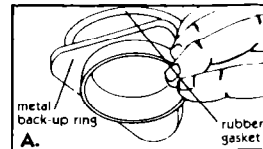
- C. Place flange into sink drain hole. Push down gently, but firmly, to make sure flange sits evenly over gasket or in putty.



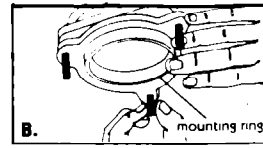
PANEL B

## 8 Attach the upper mounting assembly.

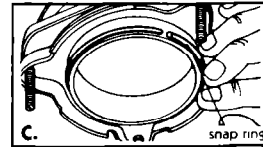
- A. Working from under sink, slip the second rubber gasket, then the metal back-up ring (flat side up), up and over sink flange.



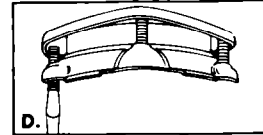
- B. Holding the rubber gasket and metal back-up ring in place, attach the mounting ring to the sleeve with the three mounting ring screws. Do Not tighten screws at this time.



- C. Push rubber gasket, metal back-up ring and mounting ring further up sink sleeve. Slide snap ring onto sink sleeve until it pops into place in the sleeve groove.

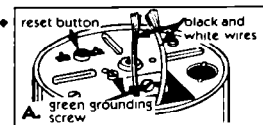


- D. Tighten mounting screws until entire mounting assembly is seated evenly and tightly against sink.

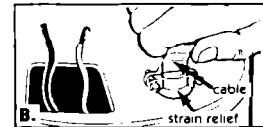


## 9 Make electrical connections.

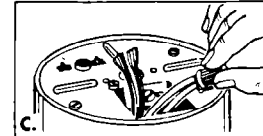
- A. Remove electrical plate from the bottom of the new disposer. Pull out the black and white electrical wires. Locate the green grounding screw under plate.



- B. Insert strain relief into hole. Insert power supply cable through strain relief. Pull cable wires through opening where disposer wires are located. Tighten strain relief screws.



- C. Connect power supply cable wires to the disposer wires using electrical wire nuts or by soldering wires together. Be sure to connect **white to white, and black to black**. Wrap wire connections with electrical tape. Put wires back inside disposer housing. **Note:** This appliance is equipped with copper lead wires. If connection is made to aluminum house wiring, use only special connectors which are approved for joining copper to aluminum wires in accordance with the national electrical code and local codes and ordinances.



## 10 Check for proper grounding.

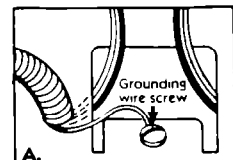
### ⚠ WARNING

#### ELECTRICAL SHOCK HAZARD

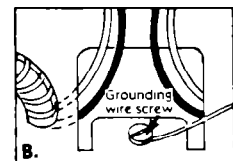
Electrical ground is required on this product. Improper connection of the equipment-grounding conductor can result in electrical shock, personal injury, or death.

Electrical ground is required on this appliance. **DO NOT** reconnect electrical current to main service panel until proper ground is installed.

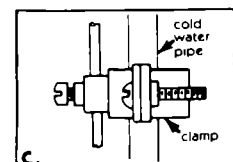
- A. If the cable leading to the disposer has three wires, attach the green grounding wire to the green grounding screw. Go to Step 10-D.



- B. If the cable does NOT have a grounding wire, attach a length of copper wire (no smaller than the other cable wire) to the green grounding screw.



- C. Attach the other end of the grounding wire to a grounded metal cold water pipe.\* **DO NOT ground to a gas supply line or hot water supply line.** Use grounding clamp to secure wire to pipe. If non-metal or plastic pipe is used in water connections or water supply, you must have a qualified electrician install a proper ground.



\*Grounded cold water pipe must have metal continuity to electrical ground and not be interrupted by plastic, rubber or other electrical-insulating connectors such as hoses, fittings, washers, or gaskets including water meter or pump.

- D. Check to see if you have a water meter in your home. To have a grounded water pipe, the meter **must** have a wire clamp to either side of the meter. You can ground the water pipe by securely clamping a length of No. 6 copper wire for 200 amp service (or less) to bare metal as shown. Use grounding clamps, certified by U.L., to attach wire to pipe.



## 11 Optional dishwasher drain connection

If you do not plan to connect a dishwasher drain to the disposer, go to Step 12.

Lay disposer on its side. Insert tip of screwdriver at an angle into drain hole opening. Tap screwdriver with hammer until molded plug pops out. Remove loose plug from disposer.



## 12 Connect disposer to mounting assembly.

- A. Lift the disposer and position it so that the disposer's three mounting ears are lined up **under** the ends of the sink mounting assembly screws.
- B. Holding the disposer in place, turn the lower mounting ring with ears to the right until **all three** ears lock into place in the mounting assembly. The disposer will now hang by itself. The mounting ring will be locked in place later.



## 13 Attach the disposer waste line pipe to drain trap.

- A. Remove any foreign materials that may have dropped inside the disposer grinding chamber.
- B. Turn the disposer around. Compare your disposer waste line pipe with the two types illustrated in C and D. Attach waste line pipe as specified.
- C. If not already assembled, place the gasket over the end of waste line pipe. Gasket must be installed as shown to prevent leaking. Insert tube into disposer opening. Place flange over waste line pipe and gasket. Secure flange to disposer with screw provided.
- D. Insert the gasket into the disposer discharge outlet. Gasket will be held in place by the waste line pipe flange. Place flange over waste line pipe. Secure flange and waste line pipe to disposer with screw(s) provided.

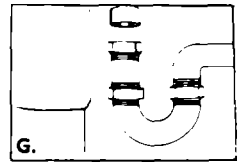


Make sure all connections comply with local plumbing codes.

- F. If tube is too long, saw off excess tubing with a hacksaw. Make sure cut is clean and straight.

PANEL C

- G. If drain is too short, measure how far trap outlet is from tube and buy a drain trap extension with a slip nut. Install trap extension.



- H. When it fits, tighten the slip nut on the trap. For double sinks, we recommend use of separate traps for disposer and second sink.

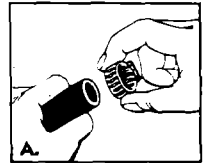


## 14 Optional: Connect to dishwasher drain.

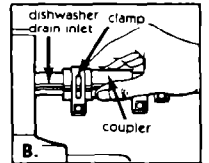
If you do not plan to connect a dishwasher drain to the disposer, go to Step 15.

Make sure connections comply with local plumbing codes.

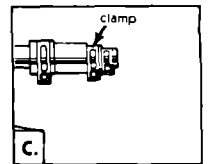
- A. A dishwasher drain connector kit may be purchased from a hardware store. Use worm gear hose clamp on dishwasher connection. Remove clamp or fitting from end of dishwasher drain hose.



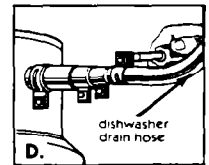
- B. Slide large end of rubber coupler over disposer inlet tube. Fasten coupler to disposer with clamp provided.



- C. Insert one end of the plastic tube into the coupler and fasten with 3/8" clamp.



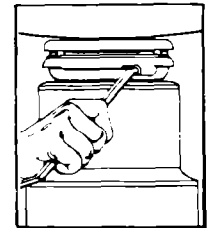
- D. Slip the gear hose clamp over the dishwasher drain hose pushing it back 2-3 inches. Slip drain hose over plastic tube. Slide clamp in place and tighten.



Be sure to tighten all three clamps.

## 15 Lock disposer in place.

Insert screwdriver or jam-breaker wrench into left side of a disposer mounting lug at the top of the disposer. Turn screwdriver or jam-breaker wrench to right until disposer is locked firmly in place.



## 16 Check for leaks and proper operation.

- A. Slowly run water through unit. Then place stopper seal in position and fill sink.
- B. Remove stopper and permit water to flow. Check for leaks at all plumbing connections. If there is a leak, tighten the connection at that point.
- C. Turn on electrical power supply.
- D. Turn water on. Run dispenser for one minute. Check that disposer is operating correctly. Check for leaks at all plumbing connections again. If there is a leak, tighten the connection at that point.



# Instructions pertaining to risk of fire, electric shock, or injury to person

## Important safety instructions:

### **⚠ WARNING**

#### **ELECTRICAL SHOCK AND PERSONAL INJURY HAZARD**

When using electric appliances, basic precautions should always be followed, including the following:

1. Read all the instructions before using the appliance.
2. To reduce the risk of injury, close supervision is necessary when appliance is used near children.
3. Do not put fingers or hands into waste disposer.
4. Turn the power switch to the OFF position before attempting to clear a jam or remove an object from the disposer.
5. When attempting to loosen a jam in a waste disposer, use a self service jam-breaker wrench as described in Use and Care Guide.
6. When attempting to remove objects from a waste disposer, use long-handled tongs or pliers.

Failure to follow these instructions could result in electrical shock, personal injury or death.

7. To reduce the risk of injury by materials that may be expelled by a food-waste disposer, place the stopper in the drain/grind position when grinding. Do not put the following into a disposer:
  - a. Clam and oyster shells.
  - b. Drain cleaner.
  - c. Glass, china or plastic.
  - d. Large, whole bones.
  - e. Metal, such as bottle caps, tin cans, or aluminum foil.
8. When not operating a disposer, leave the drain cover in place to reduce the risk of objects falling into the disposer.
9. **Before pressing red reset button, be sure the wall switch is in the off position and on batch feed models remove the stopper from the run position.**
10. a. **GROUNDING INSTRUCTIONS FOR CORD-CONNECTED UNITS.** This appliance must be grounded. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. If this appliance 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 properly installed and grounded in accordance with all local codes and ordinances.

For service information, call toll-free 1-800-422-1230