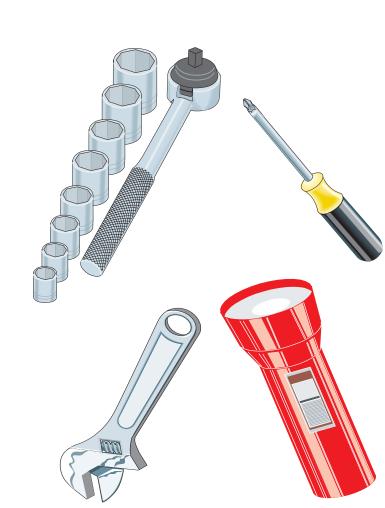
Dishwasher

Installation Instructions



INSTALLER: Leave *Installation Instructions* with owner. OWNER: Read your dishwasher *Use and Care Manual*. It contains important safety information for operating this appliance. It also has many suggestions for getting the best results from your dishwasher.

Printed in U.S.A.

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Before You Begin

For your safety, please read and observe all safety instructions. This guide will help you anticipate drain, water, and electrical connections, and help you select the best location for the dishwasher.

Read all instructions before installing dishwasher.

AWARNING Tip Over Hazard

Do not use dishwasher until completely installed. Do not push down on open door.

Failure to follow this warning can result in serious injury.

Installation Tips

Tools and Materials Needed for Installation

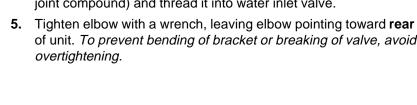
- Driver, Socket 3/16", 1/4", 5/16"
- Flaring Tool / Tube Cutter (for copper tubing)

Drill, Electric

- Flashlight
- Level Pipe Joint Compound (for iron pipe plumbing) or
- Pipe Thread Tape (for sealing threads)
- Pliers
- Safety Glasses
- Saw, Keyhole or 1/2", 11/2" to 2" Hole Cutters Screwdrivers, Slotted and #2 Phillips (magnetic tip
- Tape, Electrical or Duct Tape, Measuring
- Wire Stripper or Utility Knife
- Wrench, Hex-end
- Wrenches, 2 Adjustable (for copper tubing) or 2 Pipe Wrenches (for iron pipe plumbing)

Parts You Will Need* • Drain Hose Clamp, 11/4" Diameter (included)

• Strain Relief Bushing (not included)



If required: Available at:

• "Y" Branch Tailpiece and

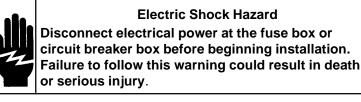
• Elbow, 90° with a 3/8" National Pipe Thread (not included)

• Wire Nuts, two (2) for 12-14 gauge wire (not included)

Plumbing Supply Store Connector Kit (See Step 4) • Air Gap Kit (See Step 4) Plumbing Supply Store

 Fasteners for floor Hardware Store anchoring (See Step 9)

AWARNING



- Examine dishwasher and locate connections. See Step 4. Locate dishwasher where there is easy access to drain, water,
- and electrical lines. The best location is on either side of the kitchen sink for access to existing plumbing and ease in loading dishes. See Step 4.
- Electrical, water, and drain connections are not the same for all age, brands, or models of dishwashers. Check the location and length of home utilities. See Step 4.
- A 15-20 amp, grounded, 120 volt AC only, electrical supply is required. See Steps 4 and 8.
- If dishwasher drain hose will be connected to a food disposer for the first time, knock out plug located inside disposer inlet.
- See Steps 4 and 6. Kinked water or drain hoses can cause problems. See Step 6.
- Dishwashers need to be connected to a hot water supply with enough water pressure to insure an adequate fill. See Steps 4

Each home installation differs. You will need additional parts

- listed above to complete your installation. See Steps 4 and 7. • Flush water line prior to making the final connection to
- prevent clogging of dishwasher's filter screen. See Step 7. The dishwasher will look, sound, and perform best when
- properly leveled. See Step 5. (NOTE: If levelers are removed during installation, make sure the floor is flat and free of any
- Anchor the dishwasher to countertop. See Step 9.

Installation Preparation

- 1. Remove two (2) screws at front of the kickplate assembly using a #2 Phillips screwdriver. 2. Tilt and pull forward to remove. (Figure 1).
- **NOTE:** It is not necessary to remove the outer door for installation.
- However, you might find it more convenient to do so. You can find directions for removing door in Step 10.

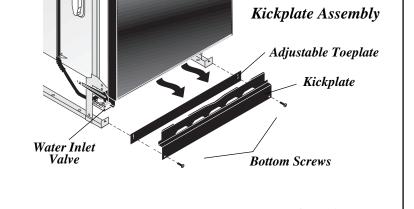
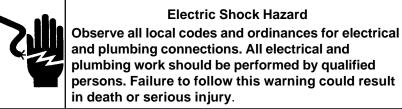


Figure 1

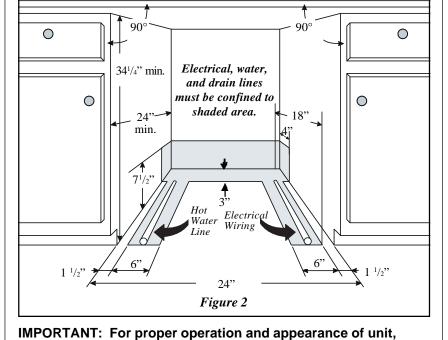
- 3. Locate water inlet valve behind kickplate on bottom left underside of unit. The valve has a 3/8" NPT female fitting. 4. Wrap 90° elbow (not included) with pipe thread tape (or apply
- joint compound) and thread it into water inlet valve.
- of unit. To prevent bending of bracket or breaking of valve, avoid

AWARNING

Roughing In



1. Make sure your location has the right drain, water, and electrical outlets to make the connections. Do not install unit under a cooktop range. Damage to plastic tub will occur.



cabinet opening should have dimensions as shown in Figure 2. If unit is to be placed in a corner, there must be at least a 2-inch side clearance to open door.

2. Remove any carpet from area to provide motor clearance. Floor

should be flat and free of any obstruction.

roughed-in before going any further.

IMPORTANT: Drain, water, and electrical lines should be

AWARNING Electric Shock Hazard

Electrical, water, and drain lines must be confined to shaded areas to prevent damage to electric conductors, water, and drain lines. See Figure 2. Failure to follow these instructions could result in fire or electric shock.

NOTE: If dishwasher is installed at end of a cabinet line, sides and back must be fully enclosed.

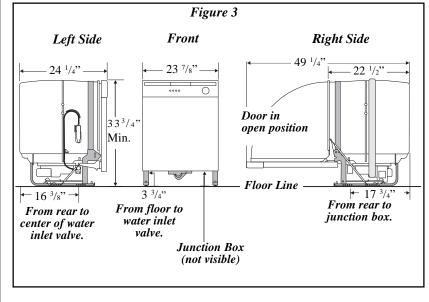
Connections For Electrical, Water, and Drain

front of dishwasher motor or frame Locating the Connections

IMPORTANT: Do not cross drain, water, and electrical lines in

1. Review dimensions in Figure 3 to locate dishwasher's drain, water, and electrical connections.

2. All connections must be made in shaded area in Figure 2.



IMPORTANT: Disconnect power before starting installation.

Electrical

- 1. The dishwasher operates on a 120 volt, 60 Hz electrical supply. Provide a separate circuit with a fuse or circuit breaker rated for at least 15 amps (20 amps if connected to disposer) but not more than 20 amps.
- 2. Note the locations of electrical supply and dishwasher's electrical junction box on right underside of unit behind kickplate assembly. See Figure 3.
- 3. Cut access hole in shaded area shown in Figure 2.
- 4. Pull electrical cable through hole into installation area.

Water

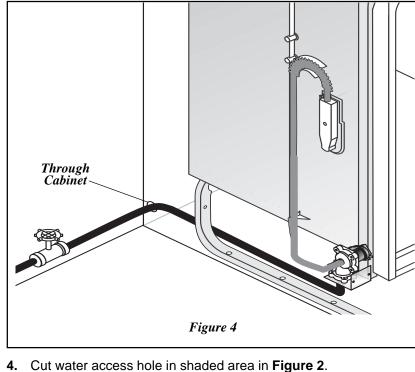
1. Determine where you will connect to hot water supply. Review Figure 3 and note the location of water inlet valve.

ACAUTION

Property Damage

Do not use the furnished drain hose or a rubber garden hose for the water supply line. Either of these hoses can burst. Flooding may occur and cause property damage.

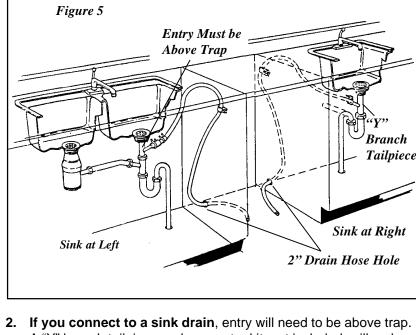
- 2. Be sure water inlet valve is protected from freezing. If valve freezes and ruptures, flooding may occur.
- 3. Determine amount of tubing needed to connect hot water supply to the unit's water inlet valve. Copper tubing must have a minimum ³/₈" OD. High-pressure and high-temperature rated plastic tubing with a minimum **inner** diameter of 1/4" may be used. A shut-off valve installed outside dishwasher cabinet is best. See Figure 4.



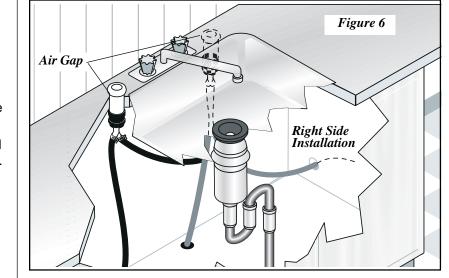
5. Route water supply line into installation area IMPORTANT: Incoming hot water temperature should be at least 120°F (49°C). Water pressure should be between

20-120 psi.

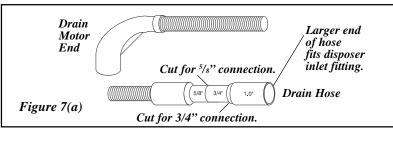
Drain 1. Review **Figures 5** and **6** to see the different ways to connect dishwasher to drain system. Choose method that best suits your

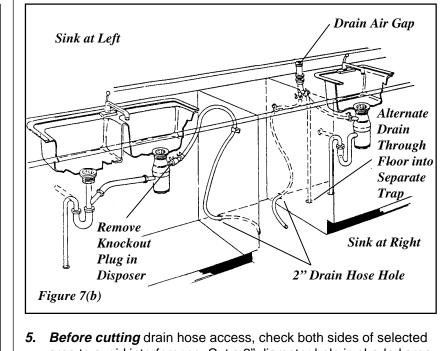


A "Y" branch tailpiece and connector kit, not included, will make this method easier and includes all needed fittings and instructions. See Figure 5.



- 3. If you connect to a sink trap, local codes may require you to install an air gap kit, not included. The drain hose will be routed from dishwasher to air gap inlet as shown in Figure 6. An air gap kit is available from a plumbing supply store.
- If you connect to a disposer, the large end of drain hose will fit. Figure 7(a). The knock out plug must be removed from inside disposer inlet before making the final fit to drain hose. See Figure 7(b).

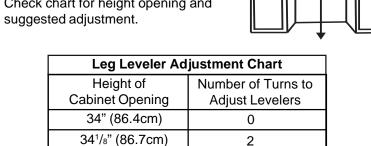




- area to avoid interference. Cut a 2" diameter hole in shaded area shown in Figure 2. 6. If the cabinet wall is wood, sand edges of hole until smooth and
- rounded. If cabinet wall is metal, cover all sharp edges with electrical or duct tape to avoid cutting drain hose.

Leveling Dishwasher within Cabinets

Measure height of cabinet opening from underside of countertop to floor. Check chart for height opening and

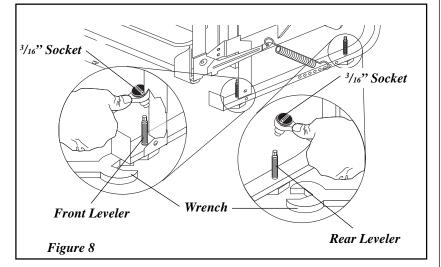


2

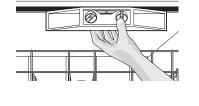
- 34¹/₂" (87.6cm) For additional height add shims under levelers.
- 2. Move dishwasher to front of installation area

34⁵/₁₆" (87.2cm)

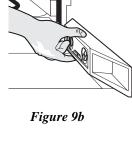
3. Loosen the front and rear leveling legs by turning counterclockwise. Refer to chart for number of turns. See Figure 8. Front levelers should allow 1/4" below underside of countertop

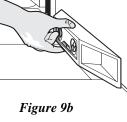


- 4. If levelers have to be removed, make sure floor is free of obstructions
- **5.** Place dishwasher inside cabinet area so that it is centered in opening. Use caution when moving dishwasher to prevent damage to dishwasher, floor, and cabinets.
- **6.** Check that dishwasher is level from side to side by placing a level against the top front section of the tub. See Figure 9a.

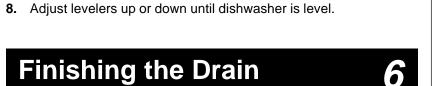


on side of opened door. See Figure 9b.

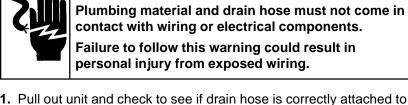








AWARNING

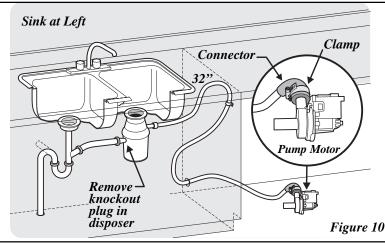


Connection

personal injury from exposed wiring. 1. Pull out unit and check to see if drain hose is correctly attached to the drain pump assembly. If drain hose is not attached to drain

Electric Shock Hazard

- pump, follow the instruction sheet (included with drain hose) on how to correctly install the drain hose to the drain pump assembly. 2. Move unit back in place while routing drain hose through access hole. Use caution to prevent damage to the dishwasher, floor and cabinets. IMPORTANT: Make sure there are no sharp bends or
- kinks that might restrict drain flow. 3. Secure drain hose to sink drain, disposer, or separate trap with a clamp. IMPORTANT: Be careful not to overtighten clamp or you may damage end of hose. Do not connect hose to horizontal pipe
- between sink drain and disposer. **4.** Be sure unit does not rest on drain hose. It should be free of electrical components and door springs. Do not cut corrugated drain hose. Pull excess through cabinet and place under sink. Make sure hose does not come in contact with any sharp edges. See Figure 10.



The drain hose loop must be at least 32" high from the floor to insure proper drainage.

Finishing the Water Connection

ACAUTION Property Damage

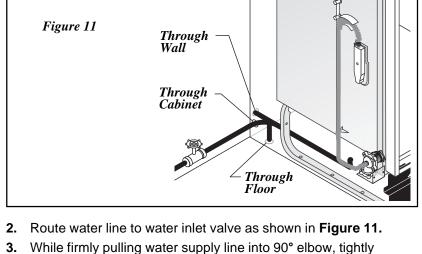
Do not solder within 6" of the water inlet valve. Damage to the plastic parts in the valve may occur. Use care that no sealer, dirt, or other objects enter the valve.

Damage to the filter screen may occur. Be sure the dishwasher is placed where the water inlet valve will be kept from freezing. If the valve freezes, it may rupture

Water Line 1. Flush water line before connecting it to water inlet valve to

and flooding may occur.

prevent early clogging of filter screen. Place a bunched towel over end of line to prevent splashing. Open valve for a few seconds and let water drain into a pan. Turn off water supply at shut-off valve.



5. If water inlet valve clogs, make sure water supply is off. Remove four (4) screws at inlet end of valve and clean filter screen. Finishing the Electrical

connect water supply to water inlet valve. Supply line must be

free of kinks, scales, chips, and lubricants.

4. Turn on water supply and check for leaks.

Connection

or circuit breaker box.

AWARNING



The dishwasher must be connected to a grounded metal, permanent wiring system. The equipment-grounding conductor must be run with the circuit conductors and connected to the appliance's equipment grounding terminal

or lead. It is the consumer's responsibility to contact a qualified installer to make sure the electrical installation conforms with the National Electrical Code and local codes and ordinances. Do not connect the dishwasher to the power supply until the appliance is permanently grounded. All wiring connections must be enclosed in the junction box.

Joining aluminum building wire to stranded copper wire

should be done by a qualified electrician using materials

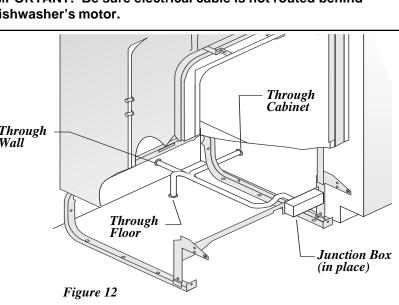
wires. Do not use an extension cord. Such use can result in fire, electrical shock, or other personal injury. Failure to follow these instructions could result in death or serious injury.

recognized by UL and local codes. This unit has copper lead

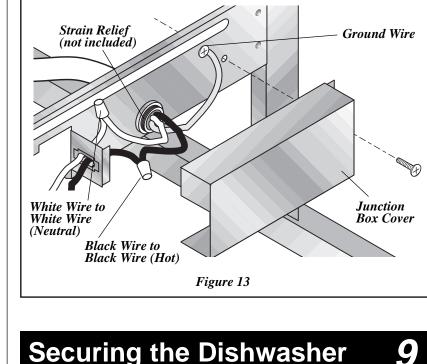
Electrical Supply

- 1. Remove junction box cover and pull house wiring into junction box. See Figures 12 and 13.
- 2. Use a UL listed strain-relief bushing, not included, at box to

IMPORTANT: Be sure electrical cable is not routed behind dishwasher's motor.



- 3. Inside junction box, attach ground wire under head of grounding screw and tighten. See Figure 13.
- 4. Connect incoming black lead to dishwasher's black lead and incoming white lead to dishwasher's white lead with wire nuts or other suitable connectors, not included. Wire nuts should be tight.
- Replace junction box cover. See Figure 13.



The dishwasher must be secured to keep it from tilting when door is

Countertop Anchoring 1. Adjust levelers (see Step 5) so mounting brackets touch

opened. Choose one of the methods described below to secure unit.

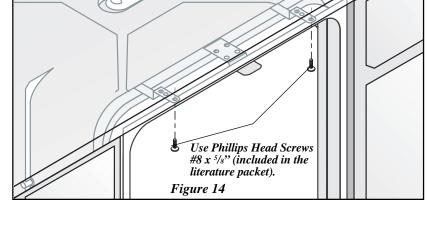
underside of countertop. IMPORTANT: Dishwasher must rest

surrounding cabinets or countertop.

bracket screw heads, adjust front levelers.

Note: Open and close door to make sure it does not hit

on floor—do not hang from countertop. See Figure 14. 2. Screw mounting brackets firmly to countertop using screws provided in literature packet. 3. Open and close dishwasher door slowly. If door hits mounting



Floor Anchoring This procedure is difficult and should be used only if countertop mounting brackets cannot be used.

1. Screw 1/4" lag screws, not included, through holes provided in frame rail. See Figure 15.

2. Use expansion fasteners if floor is concrete. Use ¹/₄" Lag Screws (not included) Figure 15

Removing & Replacing Door 10

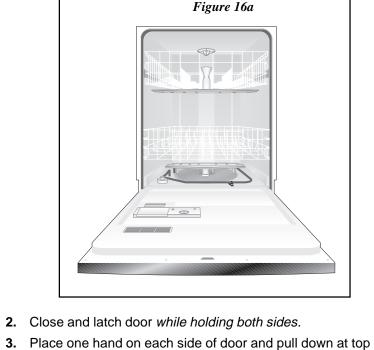
AWARNING Electric Shock Hazard Disconnect electrical power at the fuse box or circuit breaker box before beginning installation. Failure to follow this warning could result in death or serious injury.



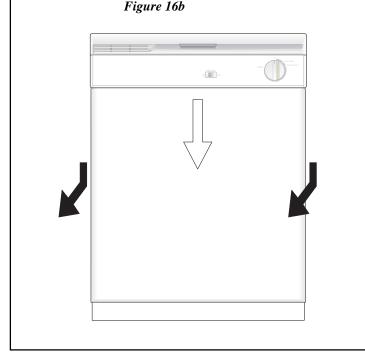
ACAUTION Cut Hazard Metal color panels are sharp and should be handled with care. Wear gloves to protect hands.

To Remove and Replace Outer Door . Unlatch and open door. Using a Phillips head screwdriver,

remove two (2) screws from inner door. Save screws to reassemble. See Figure 16a.

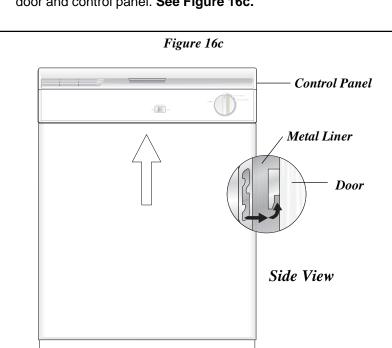


approximately 1/4". Pull entire door assembly toward you to remove. See Figure 16b.



4. Place door where it will not get scratched or damaged while completing installation.

5. When ready to replace door, fit the slots on each side of top door edge over the tabs on the metal liner. Push on sides to insure the door is flat. Push up from bottom until there is no gap between door and control panel. See Figure 16c.



6. Unlatch door and open while supporting outer door on both sides at bottom to keep in place. Align screw holes and replace screws

Checking the Installation

Before starting the dishwasher, check these items: ☐ Drain hose is assembled to drain pump.

- ☐ All packing materials and consumer literature have been removed from unit. ☐ Dishwasher is level and securely fastened.
- Open and close door to make sure it does not hit surrounding cabinet or countertop. □ Water and drain lines have no kinks.
- Wiring connections to junction box are tight. Water supply is turned on.

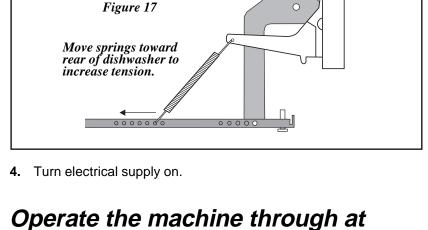
Replacing Door

Joints are free of leaks.

1. Refer to **Step 10**, numbers 5 and 6, for replacing outer door. 2. Adjust door springs to balance weight of door. A correct spring setting allows door to remain horizontal in opened position, yet will rise to close with slight lift fo finger.

rear of unit or decrease by moving them toward front. See Figure

3. If necessary, increase tension by moving springs to a hole toward



least one fill and pump-out, checking the following items: ☐ At first fill, make sure water completely covers filter surface.

☐ At pump-out, make sure all water is pumped out.



(Motor pump sound may be heard before water enters unit).

