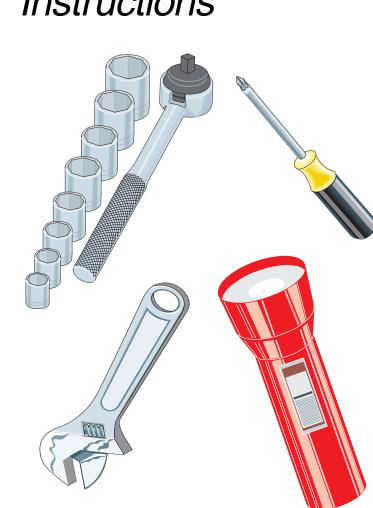
Dishwasher Installation Instructions



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.

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Before You Begin

Read all instructions before installing dishwasher. 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.

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

- Drill, Electric
- Driver, Socket 3/16", 1/4", 5/16"
- Flaring Tool / Tube Cutter (for copper tubing) Flashlight
- Gloves 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 Screw Drivers, 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)

• Wire Nuts, two (2) for 12-14 gauge wire

• Elbow, 90° with a 3/8" National Pipe Thread

Drain Hose Clamp, 1¹/₄" Diameter

anchoring (See Step 9)

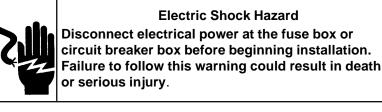
Strain Relief Bushing

Parts You Will Need* (Not Included)

If required: Available at: • "Y" Branch Tailpiece and Plumbing Supply Store

Connector Kit (See Step 4) • Air Gap Kit (See Step 4) Plumbing Supply Store Fasteners for floor Hardware Store

AWARNING

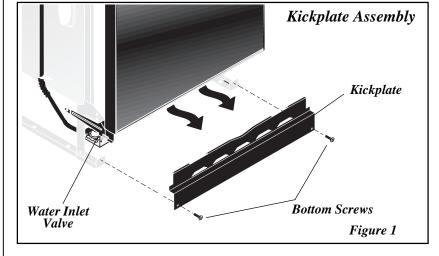


- Examine dishwasher and locate connections. See Step 4.
- Locate dishwasher where there is easy access to drain, water, and electrical lines. The best location is on either side of the kitchen sink for access to existing plumbing and ease in loading dishes. See Step 4.
- Electrical, water, and drain 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. Do not remove drain hose from tub attachment. See Step 6. Dishwashers need to be connected to a hot water supply with
- enough water pressure to insure an adequate fill.
- 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 obstruction.) 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 screw driver.
- 2. Tilt and pull forward to remove. See Figure 1.

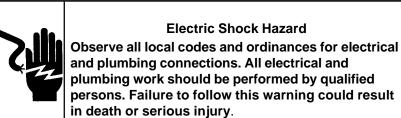
NOTE: It is not necessary to remove the outer door for installation. However, you might find it more convenient to do so. You can find directions for removing door in Step 10.



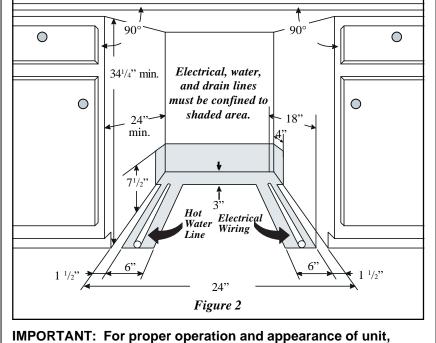
- 3. Locate water inlet valve behind kickplate on bottom left underside of unit. The valve has a 3/8" NPT female fitting.
- 4. Wrap 90° elbow (not included) with pipe thread tape (or apply joint compound) and thread it into water inlet valve.
- 5. Tighten elbow with a wrench, leaving elbow pointing toward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

Roughing In

AWARNING



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.

Remove any carpet from area to provide motor clearance. Floor should be flat and free of any obstruction.

IMPORTANT: Drain, water, and electrical lines should be roughed-in before going any further.

AWARNING

Electric Shock Hazard Electrical, water, and drain lines must be confined to shaded areas in Figure 2. Electric conductors, water, and drain could be 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.

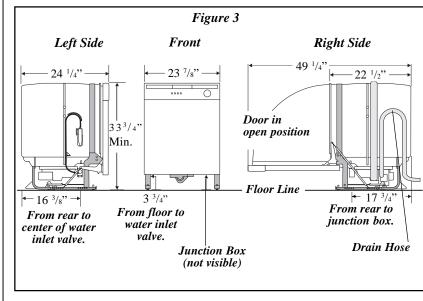
Connections For Electrical, Water, and Drain

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: Do not remove drain hose from side of unit.



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 with 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

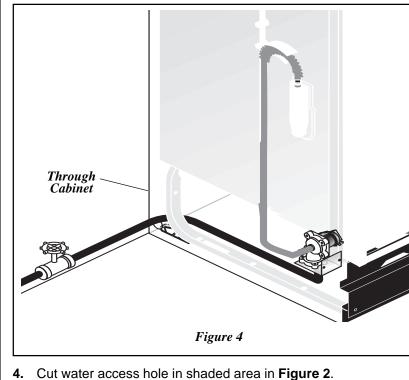
1. Determine where you will connect to hot water supply. Review Figure 3 and note the location of water inlet valve.

ACAUTION

Flooding may occur and cause property damage.

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.

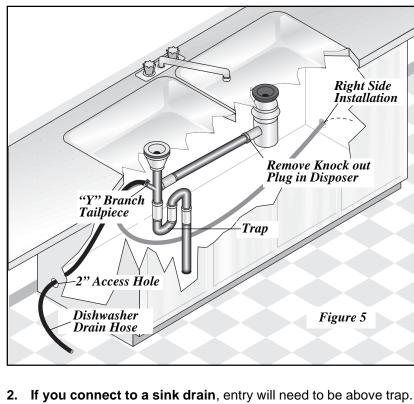
- 2. Be sure water inlet valve is protected from freezing. If valve freezes and ruptures, flooding may occur.
- 3. Determine amount of tubing needed to connect hot water supply to the unit's water inlet valve. Copper tubing must have a minimum ³/₈" OD. High-pressure and high-temperature rated plastic 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



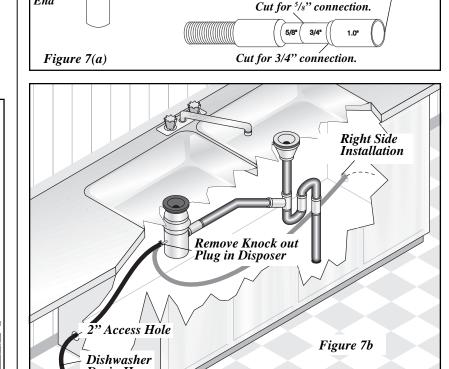
A "Y" branch tailpiece and connector kit, not included, will make this method easier and includes all needed fittings and instructions. See Figure 5.

Figure 6 Right Side

- 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. See 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).

Motor

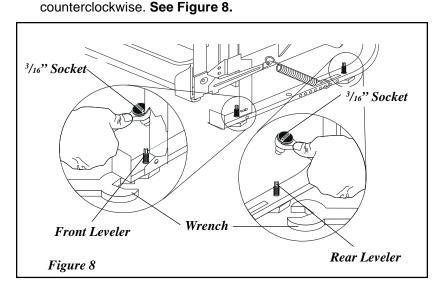
Larger end of hose



- Before cutting drain hose access, check both sides of selected area to avoid interference. Cut a 2" diameter hole in shaded area shown in Figure 2. 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.

Aligning Dishwasher to Cabinets

1. Move dishwasher to front of installation area 2. Loosen the front and rear leveling legs by turning



- 3. If levelers have to be removed, make sure floor is free of
- **4.** 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.
- 5. Check that dishwasher is level from side to side by placing a



- Check that dishwasher is level from front to back by placing leve on side of opened door. See Figure 9b.
- 7. Adjust levelers up or down until dishwasher is level.

Finishing the Drain Connection



Electric Shock Hazard Plumbing material and drain hose must not come in contact with wiring or electrical components. Failure to follow this warning could result in

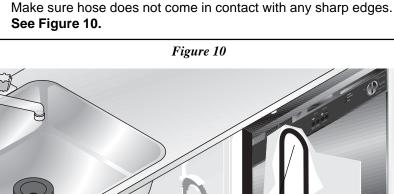


2. Secure drain hose to sink drain, disposer, or separate trap with a

personal injury from exposed wiring.

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. 3. 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.





The drain hose is looped up the right side of unit to insure proper

Note: <u>Do not remove hose from attachment.</u>

Finishing the Water Connection

ACAUTION

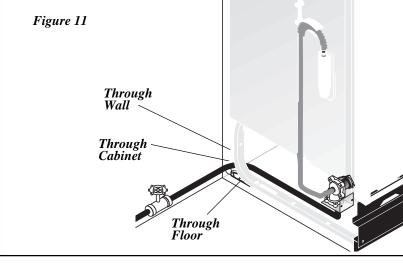
Property Damage Do not solder within 6" of the water inlet valve. Damage to the plastic parts in the valve may occur.

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 and flooding may occur.

Water Line

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



- 2. Route water line to water inlet valve as shown in Figure 11. 3. While firmly pulling water supply line into 90° elbow, tightly
- 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.
- 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 Connection

AWARNING



Make sure electrical power has been disconnected at fuse box or circuit breaker box.

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. This unit has copper lead wires.

Joining aluminum building wire to stranded copper wire should be done by a qualified electrician using materials recognized by UL and local codes. 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

Electrical Supply

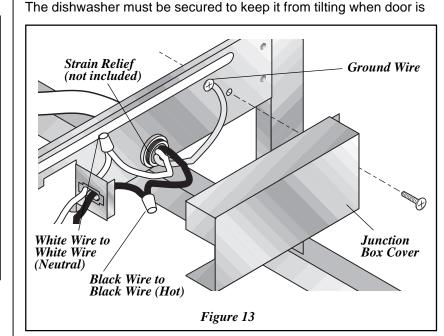
- 2. Use a UL listed strain-relief bushing, not included, at box to stabilize wiring.
- 1. Remove junction box cover and pull house wiring into junction box. See Figures 12 and 13.

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

Through Through Wall Through Junction Box (in place) Figure 12

- 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.

5. Replace junction box cover. See Figure 13.



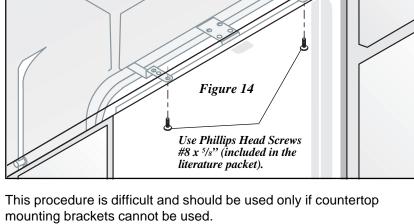
Securing the Dishwasher

Countertop Anchoring

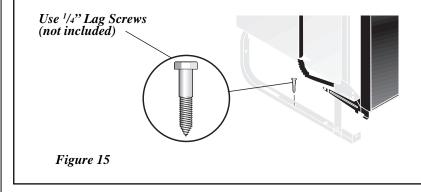
opened. Choose one of the methods described below to secure unit.

IMPORTANT: Dishwasher must rest on floor--do not hang from

- countertop. See Figure 14. 1. Screw mounting brackets firmly to countertop using screws provided in literature packet.
- 2. Open and close dishwasher door slowly. If door hits mounting bracket screw heads, adjust front levelers. Floor Anchoring



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



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.

both sides.

. Place one hand on

each side

See Figure 16c.

To Remove and Replace Outer Door

1. Unlatch and Figure 16a open door. Using a **Phillips** head screv driver, remove two (2) screws from inner door. Save screws to reassemble See Figure 16a. 2. Close and latch door while holding

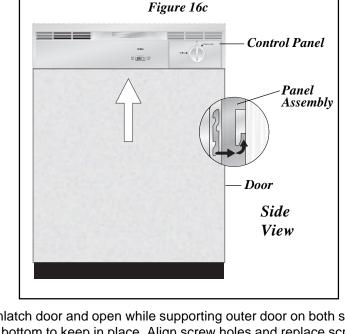
of door and pull down at top approximately 1/4" Pull entire door assembly toward you to remove. See Figure 16b. . Place door where it will not get scratched or damaged while completing installation.

5. When ready to replace door, fit the slots on each side of top door edge over the tabs Figure 16b 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

side of control panel for proper fit when replacing door.

control panel. It may be necessary to loosen bottom screw on each



6. Unlatch door and open while supporting outer door on both sides at bottom to keep in place. Align screw holes and replace screws. Tighten screws on control panel if loosened in Step 9.

Checking the Installation Before starting the dishwasher,

check these items:

☐ All packing materials and consumer literature have been removed from unit.

Dishwasher is level and securely fastened. Water and drain lines have no kinks.

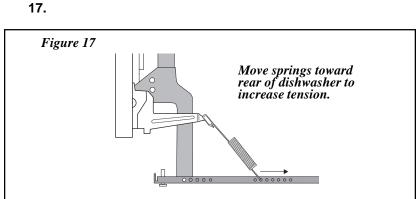
☐ Wiring connections to junction box are tight.

Water supply is turned on. Joints are free of leaks.

Replacing Door 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 of finger. 3. If necessary, increase tension by moving springs to a hole toward

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



4. Turn on electrical supply.

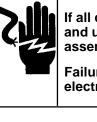
Operate the machine through at least one fill and pump-out, checking the following items:

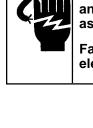
☐ At first fill, make sure water completely covers filter surface. (Motor pump sound may be heard before water enters unit). ☐ At pump-out, make sure all water is pumped out. ☐ Check water connections again for leaks.

AWARNING



and unit runs properly, replace the kickplate assembly before placing unit into operation. Failure to follow this warning could result in





Electric Shock Hazard If all connections are correct, there are no leaks, electric shock.

