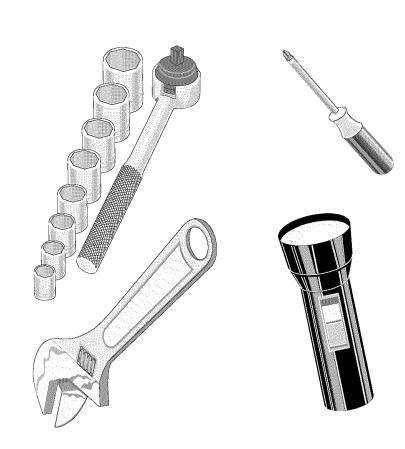
Dishwasher Installation Instructions



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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154373601 (1/00)

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.

A WARNING 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

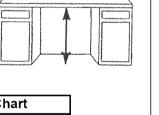
Tools and Materials Needed for Installation

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

• Drain Hose Clamp, 11/4" Diameter

• Strain Relief Bushing

anchoring (See Step 9)



	Height of	Number of Turns to
	Cabinet Opening	Adjust Levelers
	34" (86.4cm)	0
	34 ¹ /8" (86.7cm)	2
	34 ⁵ / ₁₆ " (87.2cm)	6
	34 ¹ / ₂ " (87.6cm)	9
For additional height add shims under levelers.		

- 2. Move dishwasher to front of installation area.
- 3. Loosen the front and rear leveling legs by turning counterclockwise. Refer to chart for number of turns. See
- 4. If levelers have to be removed, make sure floor is free of obstructions.
- 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.



Figure 9a

- on side of opened door. See Figure 9b. 8. Adjust levelers up or down until dishwasher is level.

Connection

Electric Shock Hazard



Plumbing material and drain hose must not come in

- 1. Pull out unit and move 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.
- 2. Secure drain hose to sink drain, disposer, or separate trap with a 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. Make sure hose does not come in contact with any sharp edges.

Parts You Will Need* (Not Included)

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

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

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

• Air Gap Kit (See Step 4) · Fasteners for floor Hardware Store

Connector Kit (See Step 4) Plumbing Supply Store

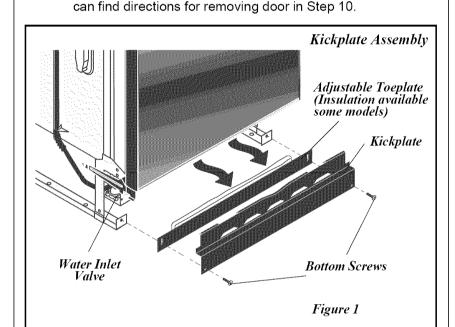


Examine dishwasher and locate connections. See Step 4.

- 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.
- See Steps 4 and 7. 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

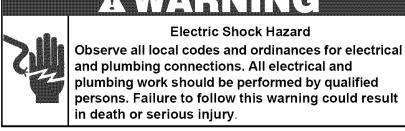
- 1. Remove two (2) screws at front of the kickplate assembly using a #2 Phillips screw driver. 2. Tilt and pull forward to remove. See Figure 1.
- NOTE: It is not necessary to remove the outer door for installation However, you might find it more convenient to do so. You



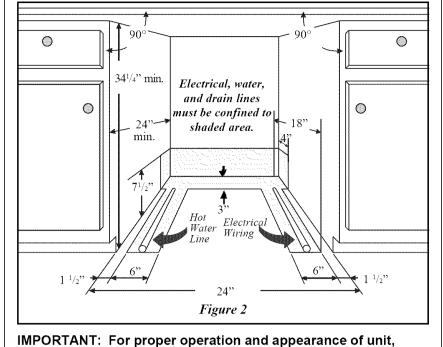
- 3. Locate water inlet valve behind kickplate on bottom left underside of unit. The valve has a 3/8" NPT female fitting.
- 4. Wrap 90° elbow (not included) with pipe thread tape (or apply joint compound) and thread it into water inlet valve.
- 5. Tighten elbow with a wrench, leaving elbow pointing toward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

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.

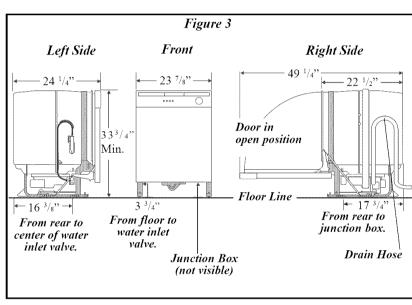
Connections For Electrical, Water, and Drain

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.



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.

IMPORTANT: Disconnect power before starting installation.

- 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.

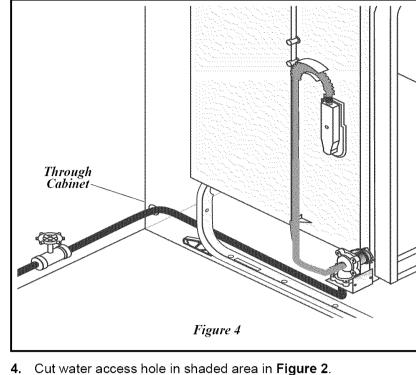
Water

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

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.

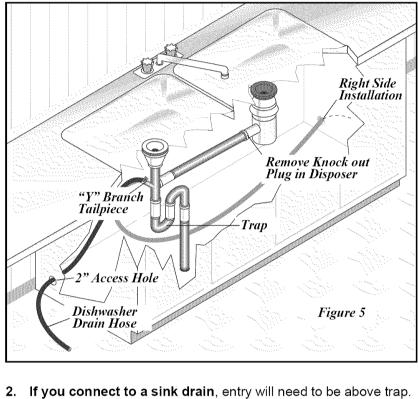


5. Route water supply line into installation area. IMPORTANT: Incoming hot water temperature should be at least 120°F (49°C). Water pressure should be between

Drain

20-120 psi.

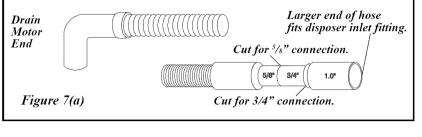
1. Review **Figures 5** and **6** to see the different ways to connect dishwasher to drain system. Choose method that best suits your

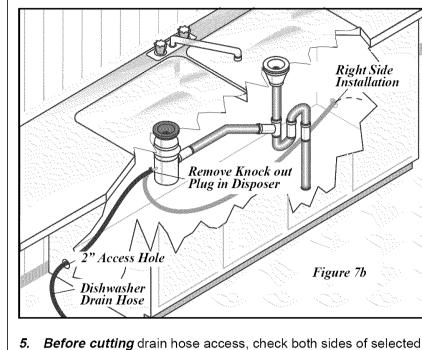


A "Y" branch tailpiece and connector kit, not included, will make this method easier and includes all needed fittings and instructions. See Figure 5.

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.
- 4. 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).



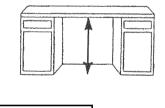


- area to avoid interference. Cut a 2" diameter hole in shaded area shown in Figure 2. **6.** If the cabinet wall is wood, sand edges of hole until smooth and
- rounded. If cabinet wall is metal, cover all sharp edges with electrical or duct tape to avoid cutting drain hose.

Leveling Dishwasher within Cabinets

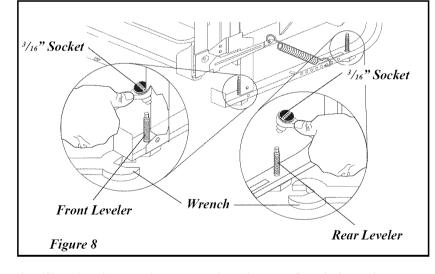
1. Measure height of cabinet opening from underside of countertop to floor. Check chart for height opening and

suggested adjustment.



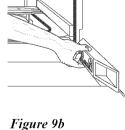
Leg Leveler Adjustment Chart

Figure 8. Front levelers should allow 1/4" below underside of countertop.



- 5. Place dishwasher inside cabinet area so that it is centered in

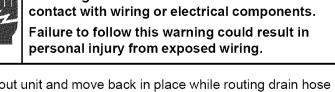






Finishing the Drain 6

A WARN NG



clamp. IMPORTANT: Be careful not to overtighten clamp or you may damage end of hose. Do not connect hose to horizontal pipe

See Figure 10.

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

Note: Do not remove hose from attachment.

Finishing the Water Connection

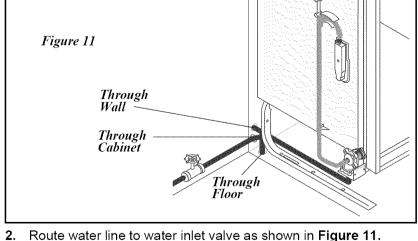
ACAUTION Property Damage

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.



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.

3. While firmly pulling water supply line into 90° elbow, tightly

Finishing the Electrical

Connection **A WARNING**



Electric Shock Hazard

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 serious injury.

Electrical Supply

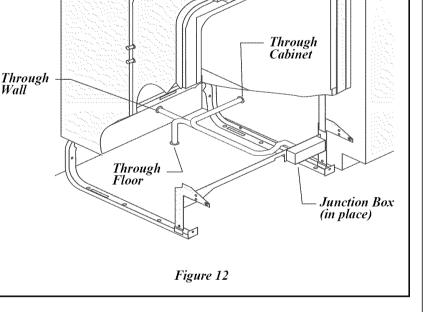
box. See Figures 12 and 13.

Remove junction box cover and pull house wiring into junction

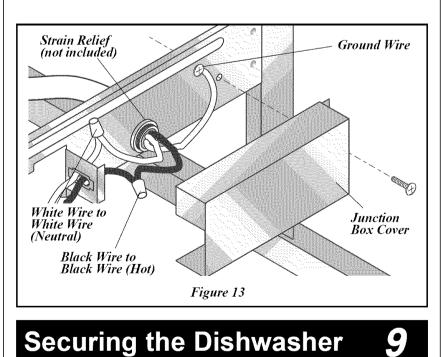
2. Use a UL listed strain-relief bushing, not included, at box to

IMPORTANT: Be sure electrical cable is not routed behind

dishwasher's motor. Through Cabinet Through Wall



- 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.



The dishwasher must be secured to keep it from tilting when door is opened. Choose one of the methods described below to secure unit.

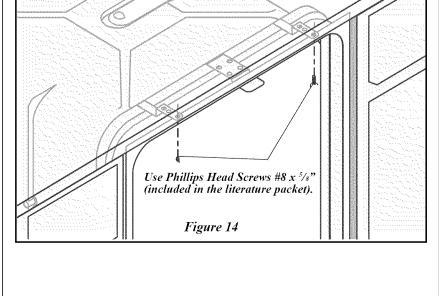
Countertop Anchoring Adjust levelers (see Step 5) so mounting brackets touch

underside of countertop. IMPORTANT: Dishwasher must rest on floor—do not hang from countertop. See Figure 14.

surrounding cabinets or countertop.

Screw mounting brackets firmly to countertop using screws provided in literature packet. Open and close dishwasher door slowly. If door hits mounting bracket screw heads, adjust front levelers.

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

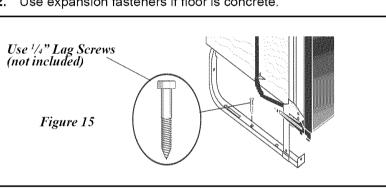


Floor Anchoring

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.



Removing & Replacing Door

death or serious injury.

Installing Wood Panel

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

A CAUTION

Metal color panels are sharp and should be handled with care. Wear gloves to protect Failure to follow this warning may result in

The dishwasher door panel can be customized to match wood cabinets. This will require a kit that includes a mid-door with side and bottom trim, heavy-duty door springs and instructions. Kits are available from your dealer or parts supplier. Order kit based

To Install a Custom Wood Panel

on desired color of trim and length of door. See Figure 16a.

6" Console 3" Console Figure 16a rafirration. Part 154362701 - white trim Part 154310301 - white trim Part 154362702 - almond trim Part 154310302 - almond trim Part 154362703 - black trim Part 154310303 - black trim Part 154362704 - bisque trim Part 154310304 - bisque trim To Remove and Replace Outer Door

1. Unlatch and open Figure 16b door. Using a Phillips head screw driver,

remove two (2) screws from inner door. Save screws to reassemble. See Figure 16b. 2. Close and latch door while holding both

each side of door and

pull down at top

Pull entire door

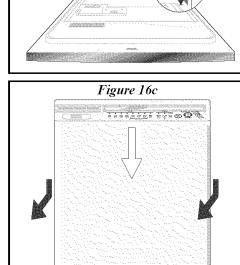
you to remove.

See Figure 16c.

approximately 1/4".

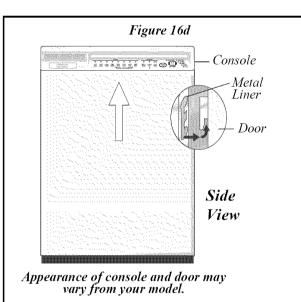
assembly toward

sides. Figure 16c 3. Place one hand on



Appearance of console and door may vary from your model.

- 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 console. See Figure 16d.



6. Unlatch door and open while supporting outer door on both sides

at bottom to keep in place. Align screw holes and replace screws.

Before starting the dishwasher, check these items:

Open and close door to make sure it does not hit surrounding

Checking the Installation

☐ All packing materials and consumer literature have been removed from unit. ☐ Dishwasher is level and securely fastened.

☐ Wiring connections to junction box are tight.

- cabinet or countertop. Water and drain lines have no kinks.
- ☐ Water supply is turned on. ☐ 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 of finger.

See Figure 17.

Replacing Door

Move springs toward rear of dishwasher to increase tension 4. Turn electrical supply on.

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

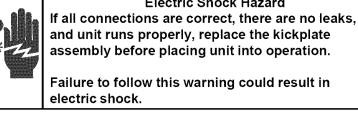
rear of unit or decrease by moving them toward front.

Figure 17

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.



Electric Shock Hazard