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.

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

preferred)

- 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* (Not Included) • Drain Hose Clamp, 11/4" Diameter

If required:

Strain Relief Bushing

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

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

• "Y" Branch Tailpiece and Connector Kit (See Step 4)

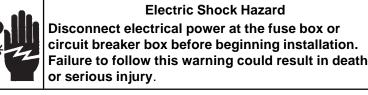
anchoring (See Step 9)

· Fasteners for floor

- Air Gap Kit (See Step 4)
- Plumbing Supply Store Plumbing Supply Store

Hardware Store

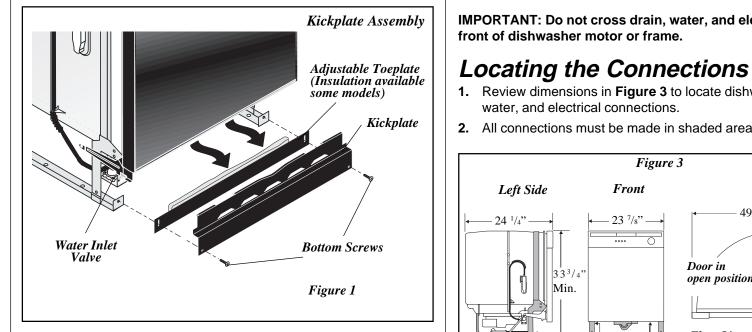
Electric Shock Hazard



- 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 and 7.
- Each home installation differs. You will need additional parts listed above to complete your installation. 154415901 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

A WARNING

in death or serious injury.

cooktop range. Damage to plastic tub will occur.

341/4" min

side clearance to open door.

roughed-in before going any further.

Electric Shock Hazard

Observe all local codes and ordinances for electrical

and plumbing connections. All electrical and

1. Make sure your location has the right drain, water, and electrical

outlets to make the connections. Do not install unit under a

Electrical, water.

and drain lines

nust be confined to

shaded area.

plumbing work should be performed by qualified

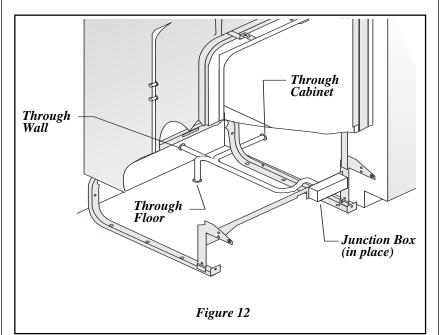
persons. Failure to follow this warning could result

Roughing In

 \circ

- 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.



- Inside junction box, attach ground wire under head of grounding
- incoming white lead to dishwasher's white lead with wire nuts or
- 5. Replace junction box cover. See Figure 13.

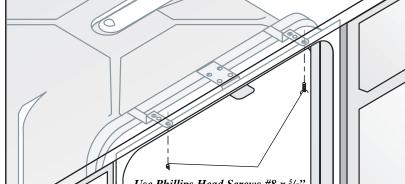
Strain Relief (not included) White Wire to Junction White Wire (Neutral) Black Wire to Black Wire (Hot) Figure 13

Securing the Dishwasher

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

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

- on floor—do not hang from countertop. See Figure 14.
- 3. 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 surrounding cabinets or countertop.



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.

IMPORTANT: Disconnect power before starting installation.

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

2. Note the locations of electrical supply and dishwasher's electrical

1. Determine where you will connect to hot water supply. Review

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

3. Cut access hole in shaded area shown in Figure 2.

4. Pull electrical cable through hole into installation area.

Figure 3 and note the location of water inlet valve.

Flooding may occur and cause property damage.

freezes and ruptures, flooding may occur.

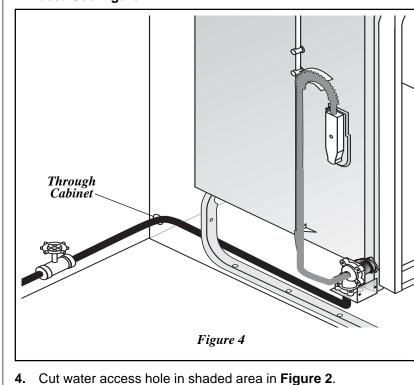
junction box on right underside of unit behind kickplate assembly.

Electrical

more than 20 amps.

See Figure 3.

Water

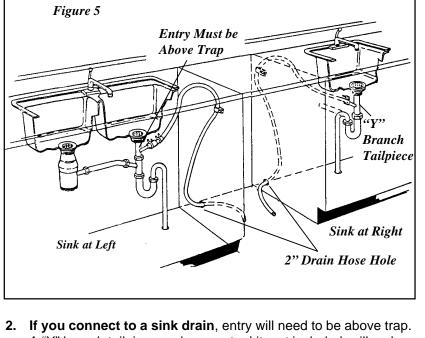


5. Route water supply line into installation area IMPORTANT: Incoming hot water temperature should be at least 120°F (49°C). Water pressure should be between 20-120 psi.

1. Review **Figures 5** and **6** to see the different ways to connect

Drain

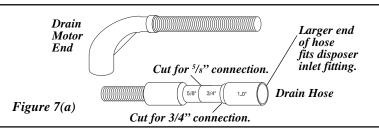
dishwasher to drain system. Choose method that best suits your

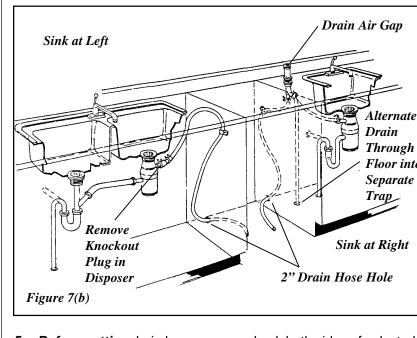


A "Y" branch tailpiece and connector kit, not included, will make this method easier and includes all needed fittings and instructions. See Figure 5.

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).

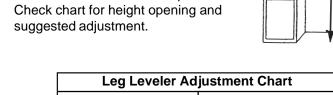




- Before cutting drain hose access, check both sides of selected area to avoid interference. Cut a 2" diameter hole in shaded area shown in Figure 2.
- 6. If the cabinet wall is wood, sand edges of hole until smooth and rounded. If cabinet wall is metal, cover all sharp edges with electrical or duct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

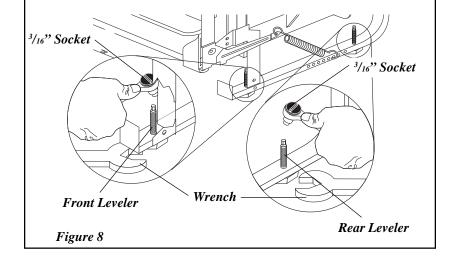
Leveling Dishwasher within Cabinets

Measure height of cabinet opening from underside of countertop to floor.





- 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 **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.

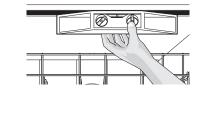
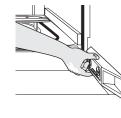


Figure 9a



8. Adjust levelers up or down until dishwasher is level.

Connection

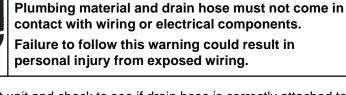


- the drain pump assembly. If drain hose is not attached to drain pump, follow the instruction sheet (included with drain hose) on how to correctly install the drain hose to the drain pump assembly. 2. Move unit back in place while routing drain hose through access
- hole. Use caution to prevent damage to the dishwasher, floor and cabinets. IMPORTANT: Make sure there are no sharp bends or kinks that might restrict drain flow.
- 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.



7. Check that dishwasher is level from front to back by placing level on side of opened door. See Figure 9b.

Finishing the Drain 6



1. Pull out unit and check to see if drain hose is correctly attached to

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

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.

will be kept from freezing. If the valve freezes, it may rupture and flooding may occur.

Water Line

Sink at Left

insure proper drainage.

Connection

Remove

knockout plug in disposer

Finishing the Water

the plastic parts in the valve may occur.

Damage to the filter screen may occur.

The drain hose loop must be at least 32" high from the floor to

A CAUTION

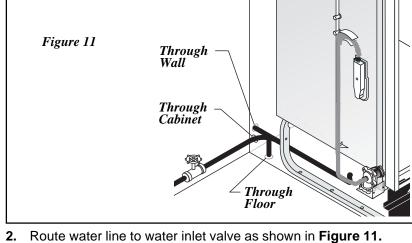
Property Damage

Use care that no sealer, dirt, or other objects enter the valve.

Be sure the dishwasher is placed where the water inlet valve

Do not solder within 6" of the water inlet valve. Damage to

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



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.

four (4) screws at inlet end of valve and clean filter screen. **Finishing the Electrical** Connection

5. If water inlet valve clogs, make sure water supply is off. Remove

A WARNING

4. Turn on water supply and check for leaks.



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.

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,

This unit has copper lead wires.

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

Electrical Supply

Figure 10

1. Remove junction box cover and pull house wiring into junction

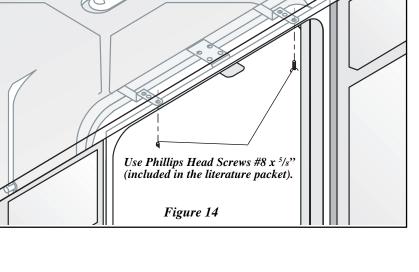
screw and tighten. See Figure 13.

- 4. Connect incoming black lead to dishwasher's black lead and other suitable connectors, not included. Wire nuts should be tight.

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

Countertop Anchoring

underside of countertop. IMPORTANT: Dishwasher must rest 2. Screw mounting brackets firmly to countertop using screws provided in literature packet.

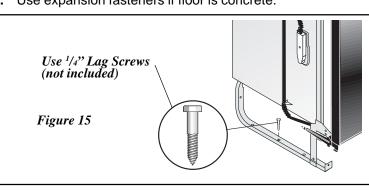


Floor Anchoring

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.



Installing Wood Panel Removing & Replacing Door

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.

A CAUTION

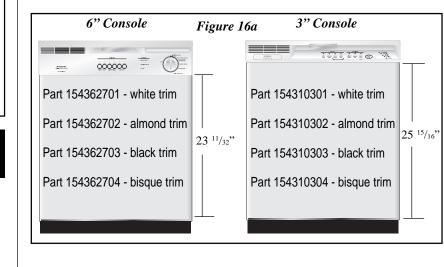


Metal color panels are sharp and should be handled with care. Wear gloves to protect Failure to follow this warning may result in

Cut Hazard

To Install a Custom Wood Panel 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 on desired color of trim and length of door. See Figure 16a.



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

3. Place one hand on each side of door and pull down at top

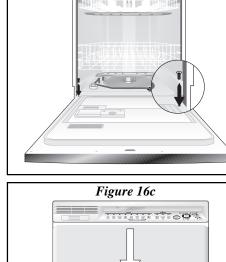
approximately 1/4".

assembly toward

Pull entire door

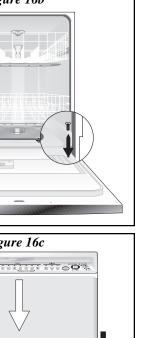
you to remove.

See Figure 16c.



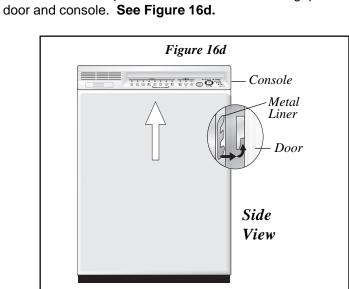
Appearance of console and door may

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



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

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

Appearance of console and door may

vary from your model.

Before starting the dishwasher,

Checking the Installation

☐ Drain hose is assembled to drain pump.

check these items:

removed from unit. Dishwasher is level and securely fastened Open and close door to make sure it does not hit surrounding

All packing materials and consumer literature have been

cabinet or countertop. Water and drain lines have no kinks.

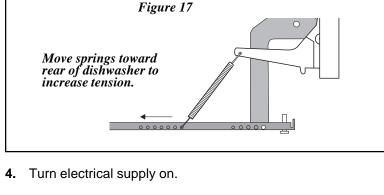
Wiring connections to junction box are tight. Water supply is turned on.

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 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 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 If all connections are correct, there are no leaks, and unit runs properly, replace the kickplate assembly before placing unit into operation.

Failure to follow this warning could result in electric shock.

IMPORTANT: For proper operation and appearance of unit, 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

2. 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

Figure 2

Electric Shock Hazard Electrical, water, and drain lines must be confined

Electric conductors, water, and drain could be

Failure to follow these instructions could result in

to shaded areas in Figure 2.

fire or electric shock.

Water, and Drain

water, and electrical connections.

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

Connections For Electrical,

IMPORTANT: Do not cross drain, water, and electrical lines in front of dishwasher motor or frame

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

1. Review dimensions in Figure 3 to locate dishwasher's drain,

