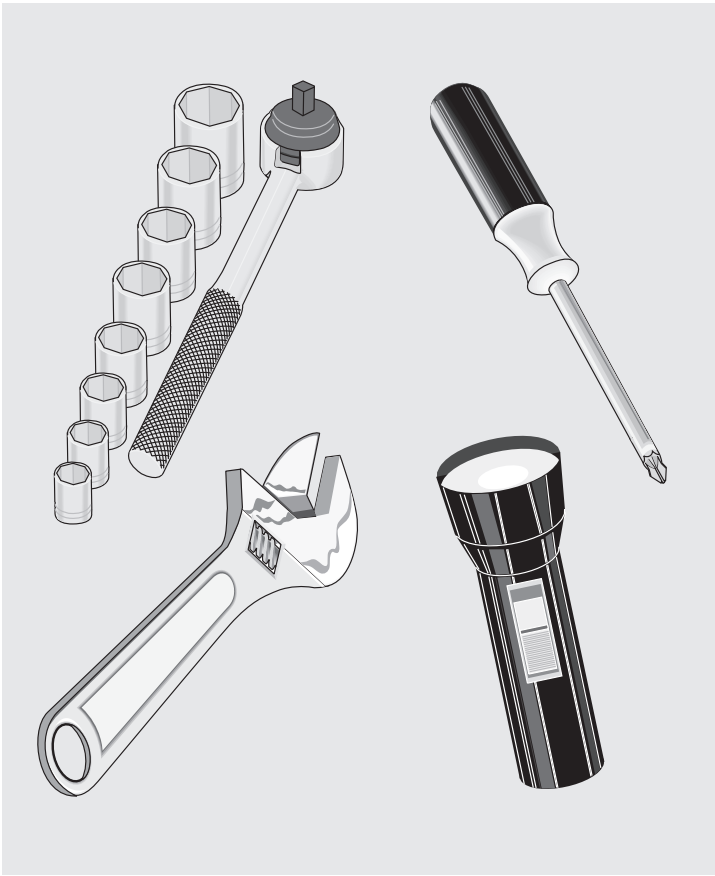


ESSENTIELL/LAGAN

INSTALLATION INSTRUCTIONS



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

WARNING

BEFORE YOU BEGIN

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

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.

1 Installation Tips

Tools and Materials Needed for Installation:

- Drill, Electric
- Driver, Socket 5/32", 1/4", 5/16"
- Flaring Tool / Tube Cutter (for copper tubing)
- Flashlight
- Gloves
- Level
- Pipe Joint Compound (for iron pipe plumbing) or Pipe Thread Tape (for sealing threads)
- Pliers
- Safety Glasses
- Saw, Keyhole or 1/2", 1-1/2" 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, 1-1/4" Diameter
- Elbow, 90° with a 3/8" National Pipe Thread or 3/4" Hose Thread Fitting
- Conduit Connector
- Wire Nuts, two (2) for 12-14 gauge wire
- Plumbers Tape
- "Y" Branch Tailpiece and Connector Kit* - See Section 4
- Air Gap Kit* - See Section 4
- Fasteners for floor anchoring* - See Section 9

* If required: (available from Hardware or Plumbing Supply store)



(833) 337-4006

NOTE

Use of Stainless Steel braided hose is recommended.

WARNING



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.

- Examine dishwasher and locate connections. See Section 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 Section 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 Section 4.
- A 15-20 amp, grounded, 120 volt AC only, electrical supply is required. See Sections 4 and 8.
- If dishwasher drain hose will be connected to a food disposer for the first time, knockout plug located inside disposer inlet. See Sections 4 and 6.
- Kinked water or drain hoses can cause problems. See Section 6.
- Dishwashers need to be connected to a hot water supply with enough water pressure to insure an adequate fill. See Sections 4 and 7.
- Each home installation differs. You will need additional parts listed above to complete your installation. See Sections 4 and 7.
- Flush water line prior to making the final connection to prevent clogging of dishwasher's filter screen. See Section 7.
- The dishwasher will look, sound, and perform best when properly leveled. See Section 5.

NOTE

If levelers are removed during installation, make sure the floor is flat and free of any obstruction.

- Anchor the dishwasher. See Section 9.

2 Installation Preparation

- Remove two (2) screws at front of the kickplate assembly using a #2 Phillips screw driver.
- 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 Section 10.

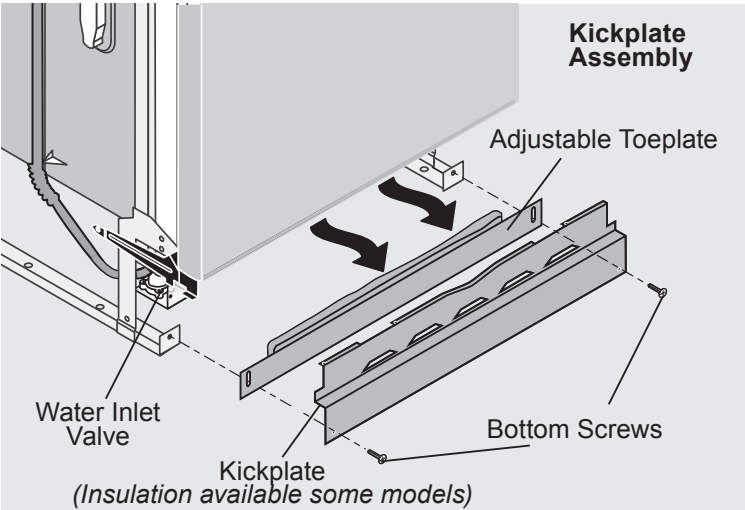


Figure 1

- Locate water inlet valve behind kickplate on bottom left underside of unit. The valve has a 3/8" NPT or 3/4" hose thread fitting.

NOTE

If using 3/4" hose thread fitting skip steps 4 and 5.

- Wrap 90° elbow (not included) with pipe thread tape (or apply joint compound) and thread it into water inlet valve.
- Tighten elbow with a wrench, leaving elbow pointing toward rear of unit. To prevent bending of bracket or breaking of valve, avoid overtightening.
- If using 3/4" hose thread fitting, DO NOT use Teflon® tape. Tighten elbow. DO NOT overtighten.

Cabinet Preparation

As a precaution, it is recommended, but not required that the cabinets enclosing all sides of the dishwasher (including the underside of the countertop) be sealed with an oil based paint or moisture-proof polyurethane to prevent possible damage.

3 Roughing In

WARNING



ELECTRIC SHOCK HAZARD

Observe all local codes and ordinances for electrical and plumbing connections. All electrical and plumbing work should be performed by qualified persons. Failure to follow this warning could result in death or serious injury.

- 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.

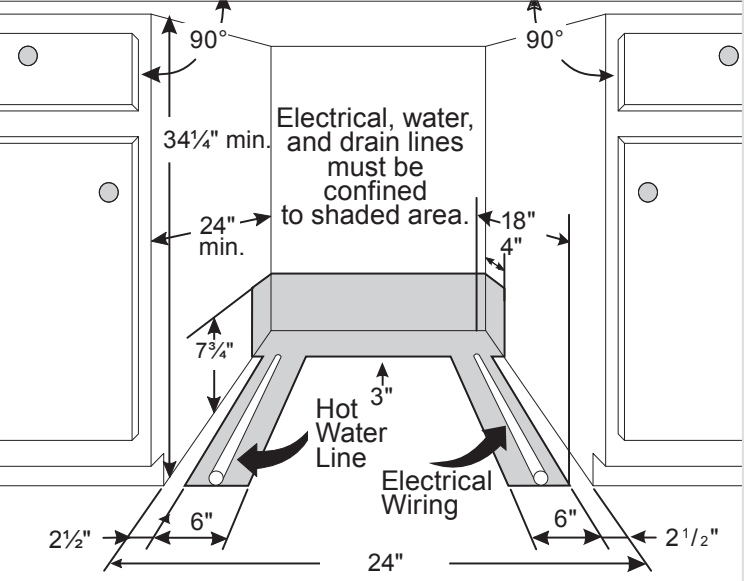


Figure 2

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") 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.

WARNING



ELECTRIC SHOCK HAZARD

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

NOTE

You can order a Cabinet Seal Kit (Kit#154528701) by contacting your dealer or parts supplier. This kit provides a seal between the unit and cabinets once installation is complete.

4 Connections (Electrical, Water, Drain)

IMPORTANT

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

Locating the Connections

- Review dimensions in Figure 3 to locate dishwasher's drain, water, and electrical connections.
- All connections must be made in shaded area in Figure 2.

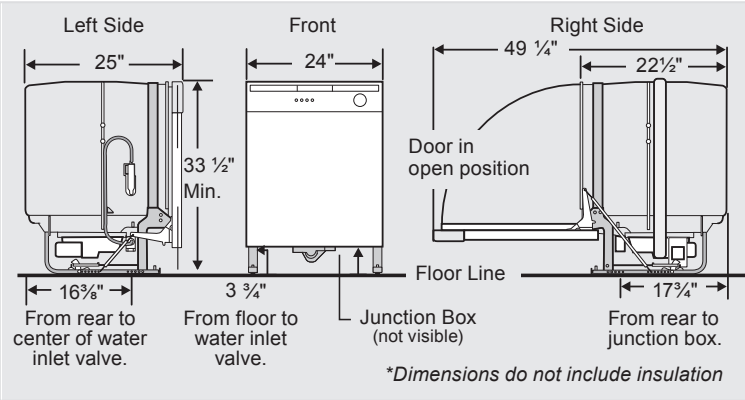


Figure 3

WARNING



ELECTRIC SHOCK HAZARD

- Disconnect power before starting installation.

Electrical

- 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.
- Note the locations of electrical supply and dishwasher's electrical junction box on right underside of unit behind kickplate assembly. See Figure 3.
- Cut access hole within the shaded area shown in Figure 2.
- Pull electrical cable through hole into installation area.

Water

- Locate the hot water supply connection and the dishwasher's water inlet valve. See Figure 3.

CAUTION

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.

- Be sure water inlet valve is protected from freezing. If valve freezes and ruptures, flooding may occur.
- Determine amount of tubing needed to connect the 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.

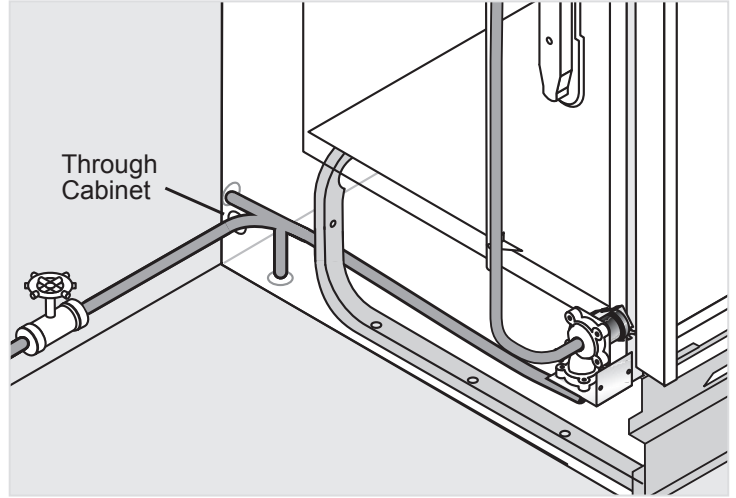


Figure 4

- Cut water access hole in shaded area in Figure 2.
- 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

- Review Figures 5-8 to see the different ways to connect dishwasher to drain system. Choose method that best suits your need.

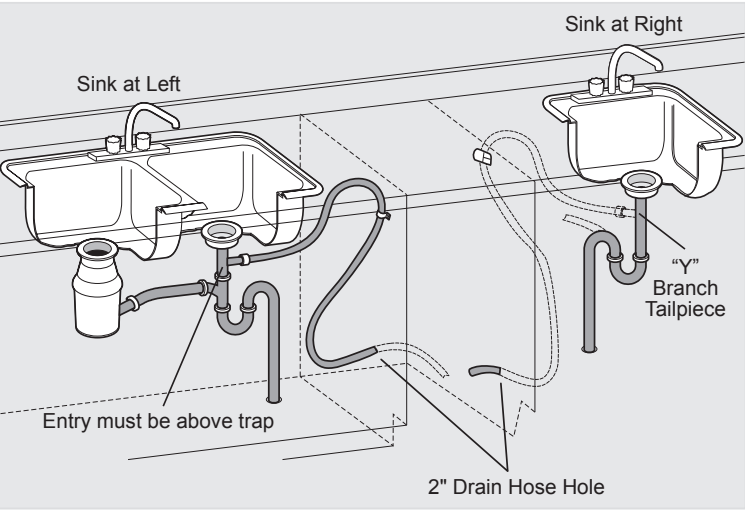


Figure 5

- If you connect to a sink drain, entry will need to be above trap. A "Y" branch tailpiece and connector kit, not included, will make this method easier and includes all needed fittings and instructions. See Figure 5.

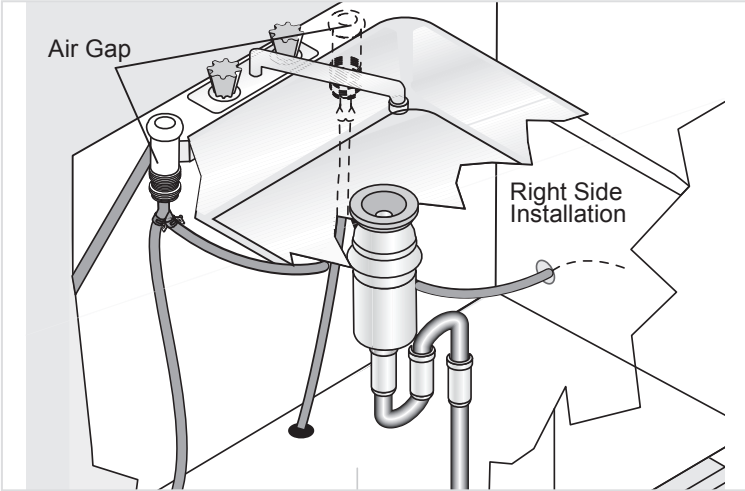


Figure 6

- 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.

NOTE

If the drain hose is installed through the floor, an air gap is necessary

- If you connect to a disposer, the large end of drain hose will fit. Figure 7. The knockout plug must be removed from inside disposer inlet before making the final fit to drain hose. See Figure 8.

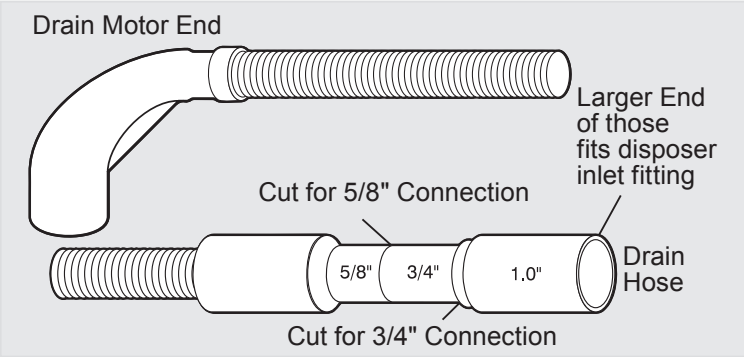


Figure 7

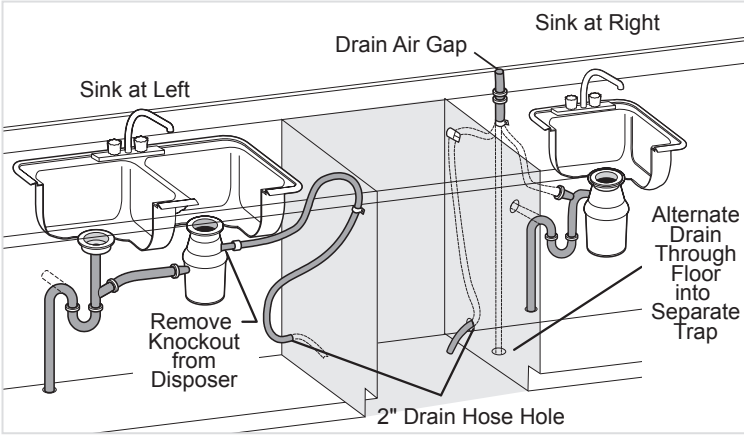


Figure 8

- 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.

Drying Vent Hose (if equipped)

Care must be given during installation and removal of the dishwasher to avoid disconnection of the vent hose that is attached to the top of the dishwasher.

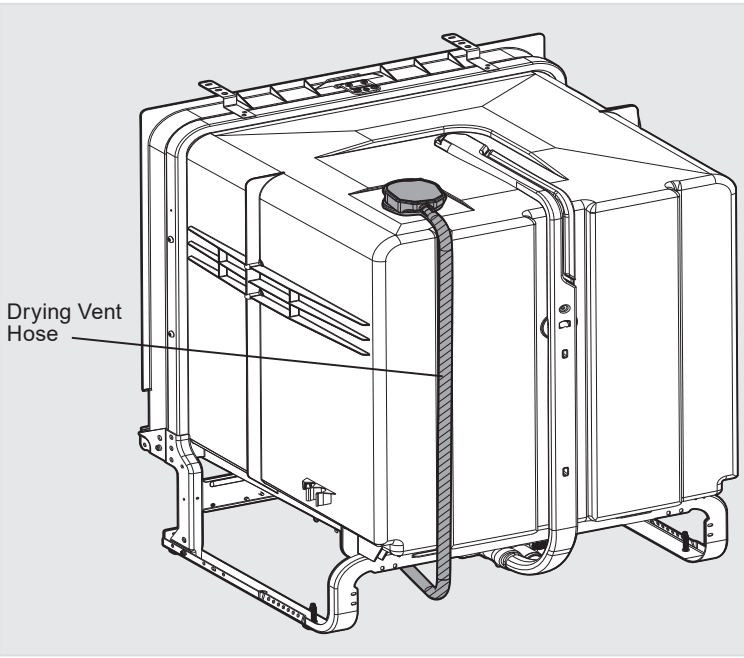
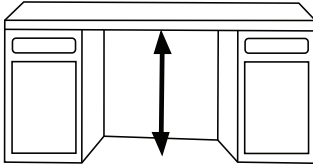


Figure 9

5 Leveling Dishwasher within Cabinets

- Measure height of cabinet opening from underside of countertop to floor. Check chart for height opening and suggested adjustment.
- Move dishwasher to front of installation area.



Leg Leveler Adjustment Chart

Height of Cabinet Opening	Number of Turns to Adjust Levelers
34" (86.4 cm)	0
34 1/8" (86.7 cm)	2
34 3/16" (87.2 cm)	6
34 1/2" (87.6 cm)	9

For additional height add shims under levelers.

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3. Loosen the front and rear leveling legs by turning counterclockwise. Refer to chart for number of turns. **See Figure 10.** Front levelers should allow 1/4" below underside of countertop.

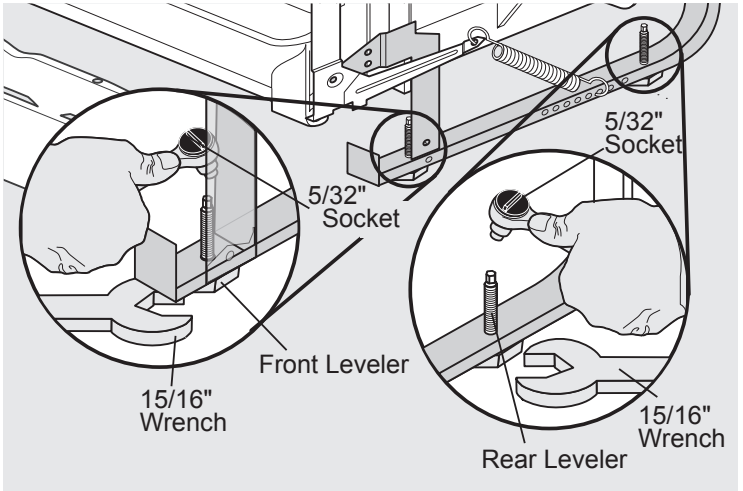


Figure 10

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. Remove lower rack to check that dishwasher is level from side to side by placing a level on the bottom of the inner door. **See Figure 11a.**

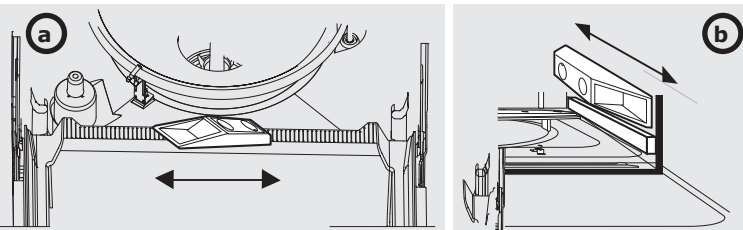


Figure 11

7. Remove lower rack to check that dishwasher is level from front to back by placing the level at the bottom of the tub at the lower rack wheel support. **See Figure 11b.**
8. Adjust levelers up or down until dishwasher is level.

6 Finishing the Drain Connection

WARNING

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 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 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. Do not connect hose to horizontal pipe between sink drain and disposer.

IMPORTANT

Be careful not to over-tighten clamp or you may damage end of hose.

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 12.**

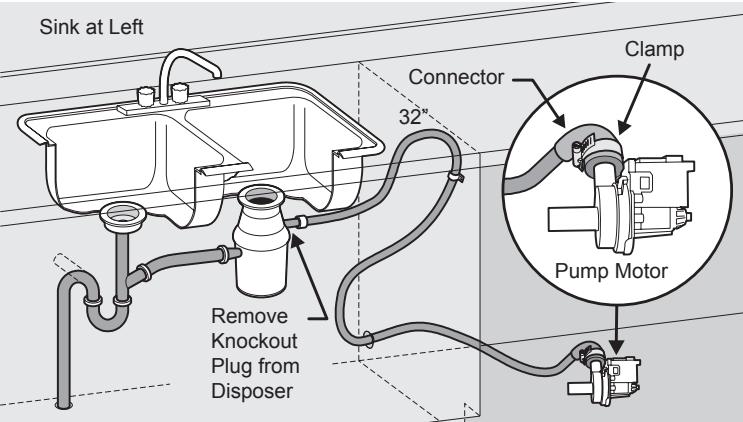


Figure 12

IMPORTANT

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

7 Finishing the Water Connections

CAUTION

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 water supply valve for a few seconds and let water drain into a pan. **Turn off water supply at shut-off valve.**

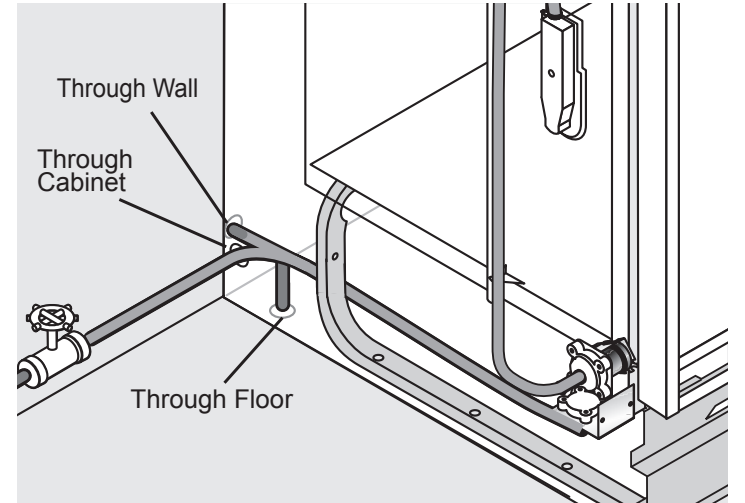


Figure 13

2. Route water line to water inlet valve as shown in **Figure 13.**
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. If using a 3/8" NPT valve, remove four (4) screws at inlet end of valve and clean filter screen. If using 3/4" hose thread fitting simply clean filter screen.

8 Finishing the Electrical Connections

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

1. Remove junction box cover and pull house wiring into junction box. **See Figures 14 and 15.**
2. Use a UL listed conduit connector (not included) at box to stabilize wiring.

IMPORTANT

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

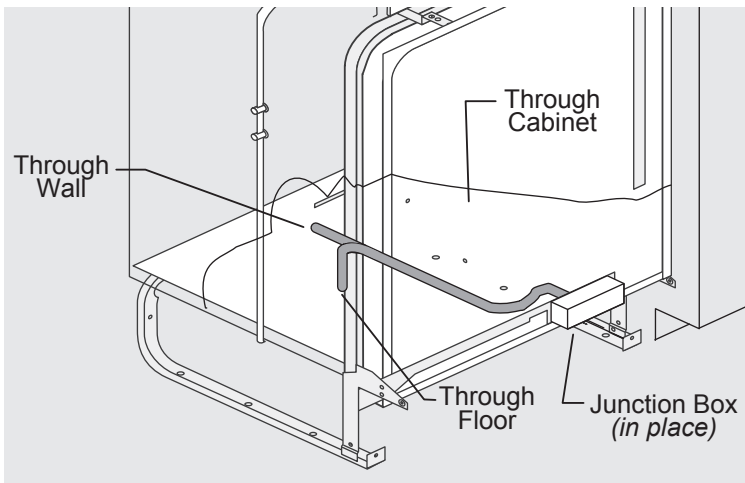


Figure 14

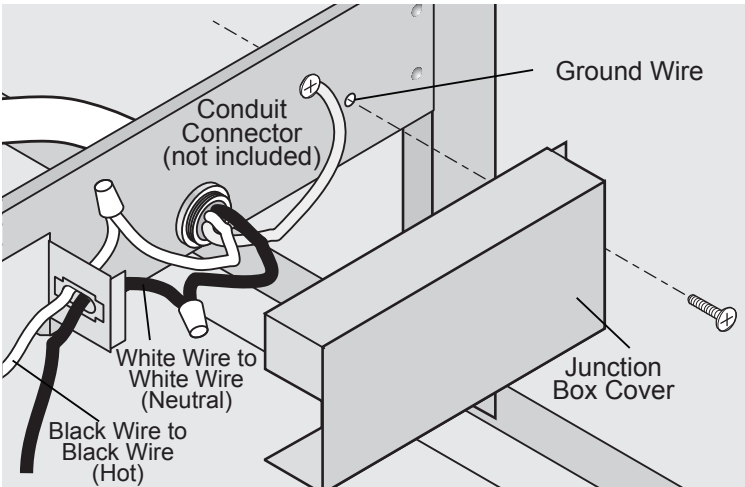


Figure 15

3. Inside junction box, attach ground wire under head of grounding screw and tighten. **See Figure 15.**
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 15.**

9 Securing the Dishwasher

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

1. Install the Cabinet Seal Kit (Instructions included in kit).
2. Replace kickplate. **See Figure 1.**
3. Adjust levelers (**see Section 5**) so mounting brackets touch underside of countertop.

IMPORTANT

Dishwasher must rest on the floor—do not hang from countertop. **See Figure 16.**

4. Tub needs to be even with the front of adjoining cabinets.
5. Screw mounting brackets firmly to countertop using screws provided in literature packet.
6. Open and close dishwasher door slowly. If door hits mounting brackets lower the dishwasher in front and rear.

NOTE

Open and close door to make sure it does not hit surrounding cabinets or countertop.

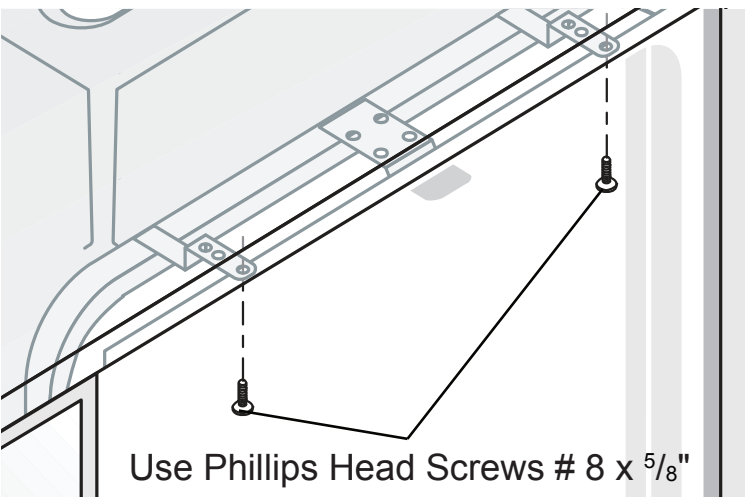


Figure 16

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 the frame rail. **See Figure 17.**
2. Use expansion fasteners if floor is concrete.

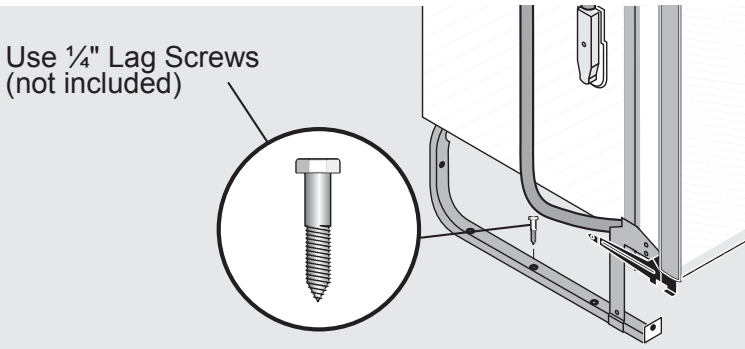


Figure 17

10 Removing and Replacing the Door

WARNING

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.

CAUTION

CUT HAZARD

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

Failure to follow this warning may result in injury.

To Remove and Replace Outer Door

1. Unlatch and open door. Using a Phillips head screw driver, remove two (2) screws from inner door. Save screws to reassemble. **See Figure 18.**
2. Close and latch door while holding both sides.

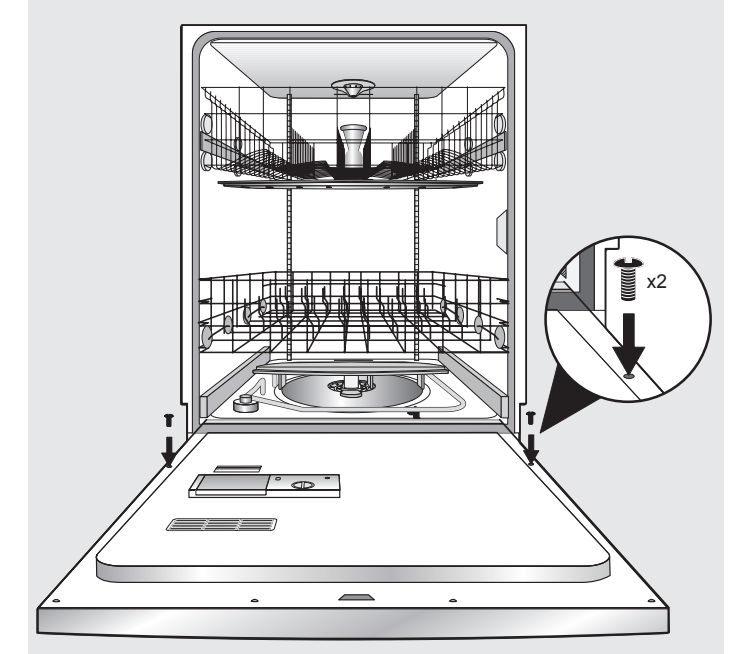


Figure 18

3. Place one hand on each side of door and pull down at top approximately 1/4". Pull entire door assembly toward you to remove. **See Figure 19.**

NOTE

Appearance of console and door may vary from your model.

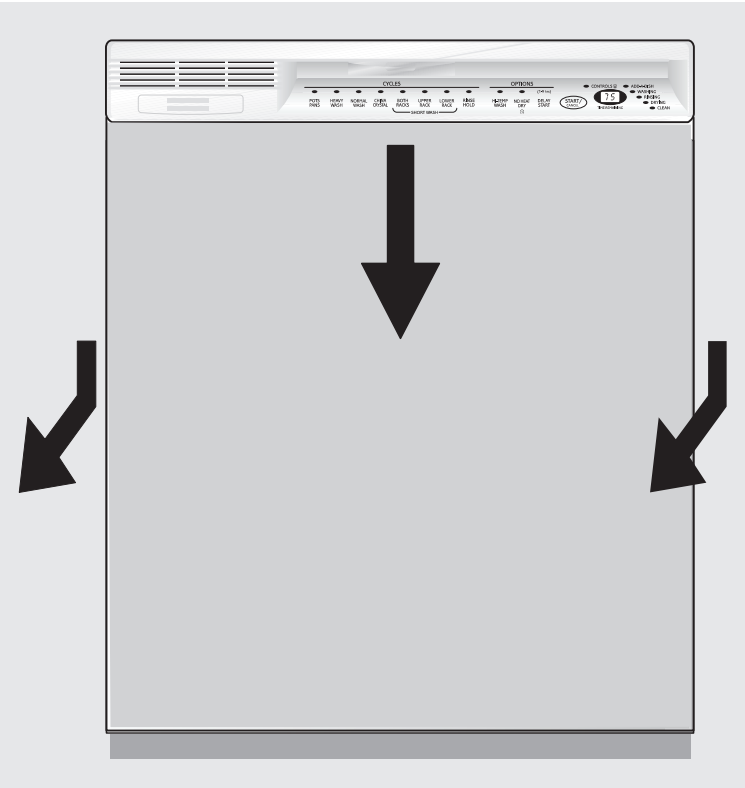


Figure 19

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 20.**

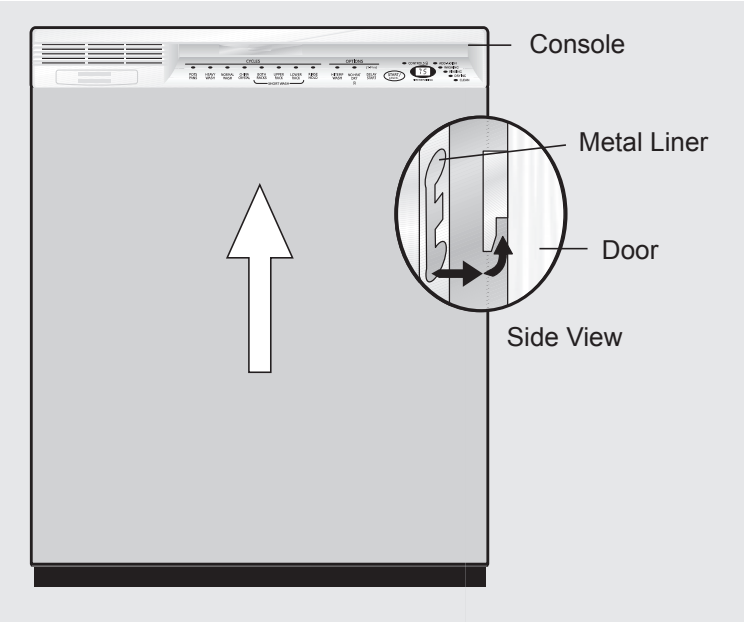


Figure 20

6. Unlatch door and open while supporting outer door on both sides at bottom to keep in place. Align screw holes and replace screws.
7. If necessary, 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.
8. If necessary, increase tension by moving springs to a hole toward rear of unit or decrease by moving them toward front.

11 Checking the Installation

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.
- ☐ Door does not hit surrounding cabinet or countertop when opening or closing.
- ☐ Water and drain lines have no kinks.
- ☐ Wiring connections to junction box are tight.
- ☐ Water supply is turned on.
- ☐ Joints are free of leaks.

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.

WARNING

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.