**Dishwasher Installation Instructions**

**Installation Tips**

- Drill, Electric
- Driver, Socket 1/4", 1/2", 3/4"
- Flaring Tool/Tube Cutter (for copper tubing)
- Flashlight
- Gloves
- Label
- Pipe Joint Compound (for iron pipe or plastic pipe), or PTFE Tape (for copper tubing)
- 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 or plastic pipe)

**Tools and Materials Needed for Installation**

- Wrenches, 2 Adjustable (for copper tubing)
- Pipe Joint Compound (for iron pipe plumbing) or 2 Pipe wrenches (for iron pipe plumbing)
- Gloves
- Spring-Loaded, 2 Adjustable (for copper tubing)
- Cordless Screwdriver, Phillips (magnetic tip preferred)
- Flashlight
- Gloves
- Label
- Pipe Joint Compound (for iron pipe or plastic pipe), or PTFE Tape (for copper tubing)
- 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", Diameter
- Elbow, 90° with a 1/4" National Pipe Thread or 1/2" Hose Thread Fitting
- Conductors
- Wire Nuts, two (2) for 12-14 gauge wire
- Plumbers Tape

**If required:**
- Available at:
  - "Y" Branch X-press and Connector Kit (See Step 4)
  - Air Gap Kit (See Step 4)
  - Fasteners for floor anchoring (See Step 3)

**NOTE:** Recommended to use Stainless Steel braided hose.

**WARNING**

- 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 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 of leading drain hoses. See Step 2.

- Electrical, water, and drain connections are not the same for all models. See models of dishwashers. Check the location and length of home utilities. See Step 5.

- A 15-20 amp, grounded, 120 volt AC only, electrical supply is required. See Steps 4 and 6.

- 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 7.

- Kinked water or drain hoses can cause problems. See Step 1.

- Dishwashers need to be connected to a hot water supply with enough water pressure to insure an adequate fill. See Steps 4 and 5.

- Each home installation will differ. You need additional parts listed above to complete your installation. See Steps 4 and 5.

- Flush water line prior to making the final connection to prevent clogging of dishwasher’s filter screen. See Step 6.

- The dishwasher will look, sound, and perform best when properly leveled. See Step 5 (NOTE: If leveling feet are removed during installation, make sure the floor is flat and free of any obstruction.)

- Anchor the dishwasher. See Step 8.

**Installation Preparation**

1. Remove two (2) screws at front of 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.

**NOTE:** If dishwasher is installed at end of a cabinet line, sides and back must be fully enclosed. See Figure 5.

**NOTE:** You can order a Cabinet Seal Kit (Kit # 154508701) by contacting your dealer or parts supplier. This kit provides a seal between the unit and cabinets once installation is complete.

**Roughing In**

**WARNING**

- 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.

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.

2. 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 of leading drain hoses. See Step 2.

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

**EXTRACTION:**

1. Pipe Joint Compound
2. Flexible braided hose

**WARNING**

- Do not use dishwasher until completely installed.

**Property Damage**

- Do not use dishwasher until completely installed.

**CAUTION**

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**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 the acceptable underside of unit behind kickplate assembly. See Figure 3.

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

4. Pull flexible cable through hole into installation area.

**Water**

1. Determine what water source will be connected to the dishwasher. Review Figure 3 and note the location of the water inlet valve.

2. 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.

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

**CAUTION**

- Do not use dishwasher until completely installed.

**Drying Vent Hose** *(if equipped)*

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

- 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.

**Connections For Electrical, Water, and Drain**

**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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**PN:** 154427301/H

**AW:** 154427301/008

**4/15**
Leveling Dishwasher within Cabinets

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

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. Tighten to desired height.

4. 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 9a.

5. If levelers have to be removed, make sure floor is free of electrical components and door springs. Do not cut corrugated hose (on how to correctly install the drain hose to the drain pump through the National Electrical Code and local codes and ordinances. The equipment-grounding conductor must be run with the circuit conductors and permanent wiring system. The equipment-grounding conductor must be connected to the appliance’s equipment grounding terminal or lead. It is the consumer’s responsibility to contact a qualified technician to make sure the electrical installation conforms with the National Electrical Code and local codes and ordinances.

6. Secure drain hose to sink, drain, separator or split trap with a clamp. IMPORTANT: Be careful not to overtighten clamp or you may damage end of hose. Do not connect hose to horizontal pipes between sink and drain.

7. Secure drain hose to sink drain, disposer, or separate trap with a clamp. IMPORTANT: Be sure drain hose does not come in contact with any sharp edges. See Figure 10.

8. Drain hose must be connected 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 technician 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 wired. All wiring connections must be enclosed in the junction box. The line cord has a copper lead wire. Joining aluminum building wire to stranded copper wire should only be done by a qualified electrician using materials recognized by UL and local codes.

9. 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 out through cabinet and place under sink. Make sure hose does not come in contact with any sharp edges. See Figure 10.

Electrical Supply

1. Remove junction box cover and pull house wiring into junction box. See Figures 12 and 13.

2. Use a UL listed conduit connector, (not included), at box to stabilize wiring. 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.

5. Place one hand on dead or serious injury. Failure to follow this warning may result in death or serious injury.

8. Unlatch and open door. Using a Phillips head screwdriver, remove the (2) screws to reassemble. See Figure 15.

9. Countertop Anchoring

1. Install the Cabinet Seal Kit (Instructions included in Kit).

2. Replace kickplate. See Figure 1.

3. Adjust levelers (see Step 5) so mounting brackets touch underside of countertop. IMPORTANT: Dishwasher must rest on underside of countertop or to the floor is not a desirable option, especially if adjacent cabinets or partitions are on opposite side of unit. The kit utilizes the front frame of the dishwasher to secure the unit to the cabinet or partitions.

10. Floor Anchoring

1. Screw 1/4” lag screws, (not included), through holes provided in mounting brackets. If necessary, increase tension by moving springs to a hole toward rear of unit or decrease by moving them toward front. See Figure 14.

2. Turn on water supply and check for leaks.

3. If water inlet valve clogs, make sure water supply is off. If using a 5/8” NPT valve, remove four (4) screws at inlet end of valve and clean filter screen. If using 3/8” NPT valve, remove four (4) screws at inlet end of valve and clean filter screen.

4. Using a Phillips head screwdriver, remove the (2) screws to reassemble. See Figure 15.

5. Tub needs to be even with the front of adjoining cabinets.

6. Screw mounting brackets firmly to countertop using screws provided in literature packet.

7. Open and close dishwasher door slowly. If door hits mounting brackets lower the dishwasher in front and rear.

8. Check water connections again for leaks.

9. During 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.

10. 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 (using screws to a hole) will not cause with slight lift ofinger. If necessary, increase tension by moving springs to a hole toward rear of unit or decrease by moving them toward front.

3. Failure to follow this warning could result in death or serious injury.

4. Electrical Shock Hazard

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, separator or split trap with a clamp. IMPORTANT: Be careful not to overtighten clamp or you may damage end of hose. Do not connect hose to horizontal pipes between sink and drain.

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 out through cabinet and place under sink. Make sure hose does not come in contact with any sharp edges. See Figure 10.

5. Using a Phillips head screwdriver remove (2) screws to reassemble. See Figure 16a.

6. Use Phillips Head Screws (not included) in literature packet. See Figure 14.

Floor Anchoring

This procedure is difficult and should be used only if countertop mounting brackets cannot be used. Screws 1/4” lag screws, (not included), through holes provided in frame rail. See Figure 15.

2. Use expansion fasteners if floor is concrete.

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

4. Use Phillips Head Screws (not included) in literature packet. See Figure 14.

5. When ready to replace door. If the slats on each side of top door edge over the tabs on the metal liner. Push on slats to ensure the door is flat. Push up from bottom until there is no gap between door and console. See Figure 16a.

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

Checking the Installation

1. Check these items:

2. DRAIN hose is assembled to drain pump. All packing materials and components of the fixture have been removed from unit.

3. Dishwasher is level and securely fastened. Open and close door to make sure it does not hit surrounding cabinet or countertop.

4. Water and drain lines have no kinks. Wiring connections to junction box are tight. Water supply is turned on.

5. Joints are free of leaks.

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

1. 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.

2. Electric Shock Hazard

1. 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.