**Dishwasher**

**Installation Instructions**

**Before You Begin**

Read all instructions before installing dishwasher.

**Tools and Materials Needed for Installation (Not Included)**

- Drill, Electric
- Driver, Socket "1/4", "5/32", "1/4";
- Flaring Tool/ Tuba 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 "1/4", "1/8", 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**

- Brass Elbow, 90° with a 3/8" National Pipe Thread
- "Y" Branch Tailpiece and 2 Pipe wrenches (for iron pipe plumbing)
- Extra hose length is necessary. 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.
- Pull electrical cable through hole into installation area.
- Be sure water inlet valve is protected from freezing. If valve freezes and ruptures, flooding may occur.
- Determine amount of tubing needed to connect hot water supply to the unit’s water inlet valve. Extra hose length is necessary. High-pressure and high-temperature Stainless Flexible hose with a minimum inner diameter of “1/4” may be used. A shut-off valve to the unit’s water inlet valve.

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

1. Make sure your location has the correct drain, water, and electrical outlets to make the connections. Do not install unit under a cooktop range. Damage to tub or other components will occur.
2. Floor should be flat and free of any obstruction.

**Roughing In**

**WARNING**

Electric Shock Hazard

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

1. Install Top Mount Clips before unit is installed into the cabinet. Insert the installation brackets to the front top slots of the dishwasher. (See image below)

**Leveling and Securing Dishwasher within Cabinets**

5. Choose one of the methods of attachment below to secure unit, holes need to be pre-drilled using a #5 drill bit regardless of the option chosen.

   - a. Top Mount Cabinet Clips (Preferred Method of attachment)
   - b. Side Mount Cabinet Clip (to be used when Top Mount is not an available option)

   **CAUTION:** Use extreme care in mounting the dishwasher as to not scratch, bump or otherwise damage the console or tub.

To install using Top Mount Cabinet Clips:

- Depending on the depth of cabinet, the Top Mount Clip have a break off point that can be removed if necessary.

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

**Installation Preparation**

**WARNING**

Do not use dishwasher until completely installed.

**NOTE:** Put unit on its back being careful not to pinch the Water Drain Hose.

1. Remove two (2) screws at front of the kickplate using a #2 Phillips screw driver. Slide up and out.
2. Locate water inlet valve behind kickplate on bottom left underside of unit. See Figure 4. The valve has a 1/4" NPT female fitting.
3. Wrap 90° elbow (not included) with pipe thread tape (or apply pipe joint compound) and thread into water inlet valve. When tightened, elbow should point toward the left. To prevent bending or breaking of valve, avoid overtightening.

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

1. Review dimensions in Figure 2 to locate dishwasher’s drain, water, and electrical connections.
2. All utilities must be routed in shaded area in the Figure 2.
3. Locate the electrical supply and dishwasher’s electrical junction box on right underside of unit behind kickplate assembly. See Figure 4. Determine where you will connect to hot water supply. Review Figure 4 and note the location of the water inlet valve. Determine where you will connect the drain hose.
4. Cut access holes for the Electrical, Water and Drain hoses in the shaded areas as shown in Figure 2.
5. The dishwasher operates on a 120 volt, 60 cycle electric supply.
6. Pull electrical cable through hole into installation area.
7. Be sure water inlet valve is protected from freezing. If valve freezes and ruptures, flooding may occur.
8. Determine amount of tubing needed to connect hot water supply to the unit’s water inlet valve. Extra hose length is necessary. High-pressure and high-temperature Stainless Flexible hose with a minimum inner diameter of “1/4” may be used. A shut-off valve to the unit’s water inlet valve.
9. Route water supply line into installation area.
10. Stand dishwasher back up for further installation.

**Leveling and Securing Dishwasher within Cabinets**

**WARNING**

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.

6. If levels need to be removed, make sure that the floor is free of all obstructions.
7. Carefully place dishwasher inside cabinet area such that is centered in opening. Use caution when moving dishwasher to prevent damage to cabinet, dishwasher and floor.
8. Front of door needs to be even with the front of adjoining cabinets. Frontlineaters should allow 5/16” below underside of countertop to top of door.
9. Check that dishwasher is level from side to side by placing a level against the top front section of the tub. See Figure 5a.
10. Check that the dishwasher is level from front to back by taking out the lower rack, place level on the lower rack shelf support at the bottom of the tub. See Figure 5b.
11. Adjust levelers up or down until dishwasher is level.

**Electrical, water, and drain lines must be confined in shaded areas.**

**WARNING**

Do not push down on open door.

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

**Leveling and Securing Dishwasher within Cabinets**

5. Choose one of the methods of attachment below to secure unit, holes need to be pre-drilled using a #5 drill bit regardless of the option chosen.

   - a. Top Mount Cabinet Clips (Preferred Method of attachment)
   - b. Side Mount Cabinet Clip (to be used when Top Mount is not an available option)

   **CAUTION:** Use extreme care in mounting the dishwasher as to not scratch, bump or otherwise damage the console or tub.

To install using Top Mount Cabinet Clips:

- Depending on the depth of cabinet, the Top Mount Clip have a break off point that can be removed if necessary.

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

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9. Route water supply line into installation area.
10. Stand dishwasher back up for further installation.

**IMPORTANT:** Incoming hot water temperature should be at least 120°F (49°C). Water pressure should be between 20–90 psi.

**WARNING**

Cut Hazard

To prevent serious injury from sharp edges, wear work gloves when handling, unpacking or disassembling unit.

**WARNING**

Gloves when handling, unpacking or disassembling unit.

**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.

**CAUTION:**

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.

6. If levels need to be removed, make sure that the floor is free of all obstructions.
7. Carefully place dishwasher inside cabinet area such that is centered in opening. Use caution when moving dishwasher to prevent damage to cabinet, dishwasher and floor.
8. Front of door needs to be even with the front of adjoining cabinets. Frontlineaters should allow 5/16” below underside of countertop to top of door.
9. Check that dishwasher is level from side to side by placing a level against the top front section of the tub. See Figure 5a.
10. Check that the dishwasher is level from front to back by taking out the lower rack, place level on the lower rack shelf support at the bottom of the tub. See Figure 5b.
11. Adjust levelers up or down until dishwasher is level.

Holes need to be pre-drilled using a #5 drill to secure unit.

12. Screw mounting brackets firmly to cabinet using screws provided in literature packet. See Image Below.

13. Open the door remove the tub cap on both sides of the tub. Install screw through the dishwasher side hole to the wall of cabinet. Reinstall tub cap.

14. Open and close dishwasher door slowly. Ensure that there is clearance to the console. Adjust according until door opens and closes freely.
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 hose 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.

2. Route water line to water inlet valve as shown in Figure 4. Use a UL listed fitting kit, (not included). The drain hose must be free of kinks, scales, chips, and lubricants.

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.

Electrical Supply

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

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

3. Connect incoming black wire to dishwasher’s black lead, incoming white wire to dishwasher’s white lead and incoming green wire to dishwasher’s green lead with wire nuts. (See Grounding Instruction Warning). Wire nuts must be tight.

4. Connect incoming white wire to dishwasher’s white lead and incoming black wire to dishwasher’s black lead, incoming green wire to dishwasher’s green lead with wire nuts.

5. Connect incoming ground green wire to dishwasher’s green lead with wire nuts. (See Grounding Instruction Warning). Wire nuts must be tight.

6. Check all electrical connections and make sure all excess wiring is pulled into junction box.

7. All wiring connections must be enclosed in the junction box.

8. Take a few seconds to let water drain into a pan. Prevent early clogging of filter screen. Place a bunched towel back over end of hose to prevent splashing.

9. Water supply is turned on. Water and drain lines have no kinks and move freely. Water supply is turned off at shut-off valve. See Figure 7.

10. Check water connections again for leaks.

11. Check these items:
   - Water and electrical lines are hooked up to dishwasher.
   - All four leg levelers are positioned properly.
   - Cabinet Seals are positioned on the sides and top of the dishwasher.
   - Cabinet Attachment Clips are attached to the cabinet or countertop and kickplate brace.
   - Water supply is turned on.
   - Water and drain lines have no kinks and move freely.
   - Joints are free of leaks.
   - Wiring connections to junction box are tight all access.
   - Water supply is turned on.
   - Joints are free of leaks.
   - Wiring connections to junction box are tight all access.
   - Reconnect kickplate and kickplate brace. (See Figure 1)
   - Drain hose is assembled to Drain Hose Connector.
   - All packing materials and consumer literature have been removed from inside unit.
   - Dishwasher is level and securely fastened to cabinets.
   - Make sure that all tape is removed from the Silverware Baskets.

12. Do not solder within 6" of the water inlet valve. Damage to the filter screen may occur.

13. Do not use an extension cord. Such use can result in fire, electrical shock, or other personal injury.

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

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

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17. Check water connections again for leaks.

Operating theInstallation

1. At first fill, approximately 1 minute make sure water completely covers filter surface.

2. At pump-out: pump-out is either when the cycle is completed or canceled. Refer to the Use and Care Manual for Start/Cancel, make sure all water is pumped out.

3. Check water connections again for leaks.