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.

154427301 (02/02)

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.

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 $1/2^{\circ}$, $1^{1}/2^{\circ}$ 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
- Elbow, 90° with a ³/₈" National Pipe Thread
- Strain Relief Bushing
- Wire Nuts, two (2) for 12-14 gauge wire

If required:

20

- "Y" Branch Tailpiece and Connector Kit (See Step 4)
- Air Gap Kit (See Step 4)
- · Fasteners for floor anchoring (See Step 9)

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.

Available at:

Hardware Store

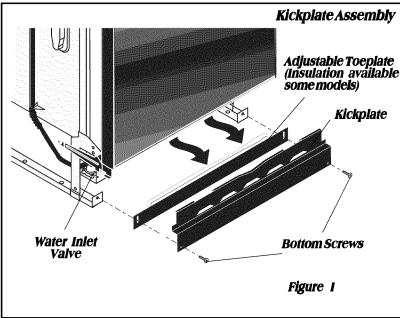
Plumbing Supply Store

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.
- 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
- 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 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 overtightening.

Roughing In

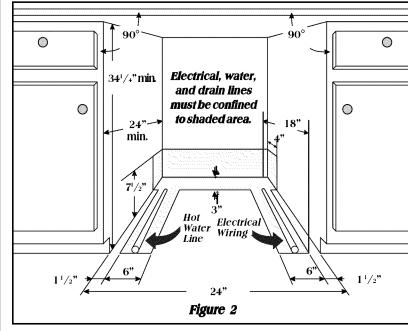
A WARNING

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.

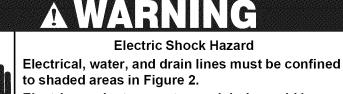
Make sure your location has the right drain, water, and electrical outlets to make the connections. Do not install unit under a cooktop range. Damage to plastic tub will occur.

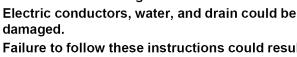


IMPORTANT: For proper operation and appearance of unit, cabinet opening should have dimensions as shown in Figure 2. If unit is to be placed in a corner, there must be at least a 2-inch side clearance to open door.

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 roughed-in before going any further.





Failure to follow these instructions could result in

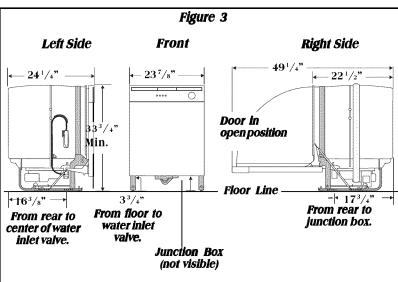
NOTE: If dishwasher is installed at end of a cabinet line, sides

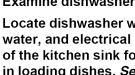
Connections For Electrical, Water, and Drain

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

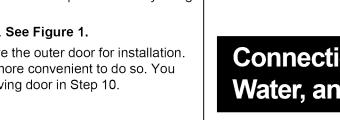




- A 15-20 amp, grounded, 120 volt AC only, electrical supply is

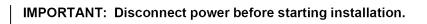
- 2

fire or electric shock. and back must be fully enclosed.



3





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 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

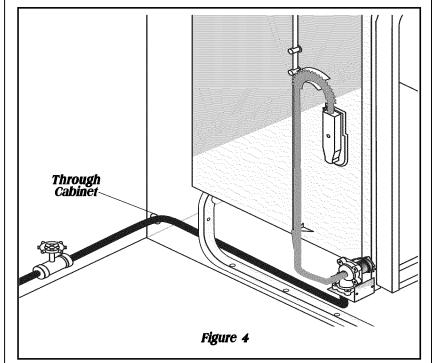
1. Determine where you will connect to hot water supply. Review Figure 3 and note the location of water inlet valve.

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.

- 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 $\frac{1}{4}$ may be used. A shut-off valve installed **outside** dishwasher cabinet is best. See Figure 4.



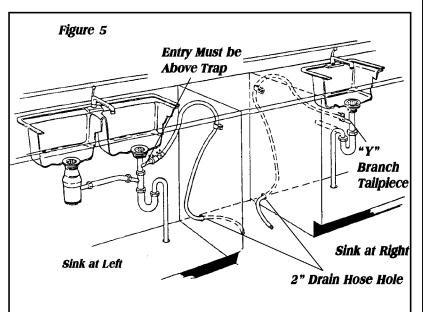
4. Cut water access hole in shaded area in Figure 2.

5. Route water supply line into installation area

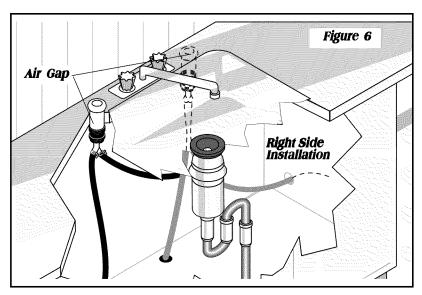
IMPORTANT: Incoming hot water temperature should be at least 120°F (49°C). Water pressure should be between 20–120 psi.

Drain

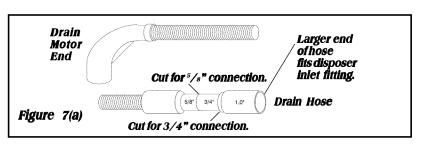
1. Review Figures 5 and 6 to see the different ways to connect dishwasher to drain system. Choose method that best suits your need.

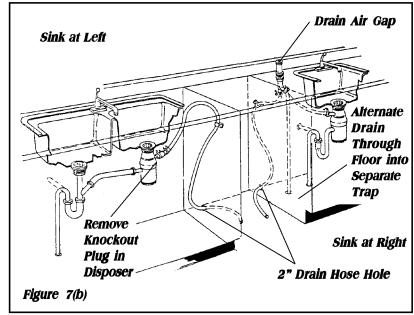


2. If you connect to a sink drain, entry will need to be above trap. A "Y" branch tailpiece and connector kit, not included, will make this method easier and includes all needed fittings and instructions. See Figure 5.



- 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.
- 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).

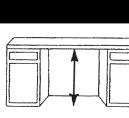




- Before cutting drain hose access, check both sides of selected area to avoid interference. Cut a 2" diameter hole in shaded area shown in Figure 2.
- 6. If the cabinet wall is wood, sand edges of hole until smooth and rounded. If cabinet wall is metal, cover all sharp edges with electrical or duct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

Leveling Dishwasher within Cabinets

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

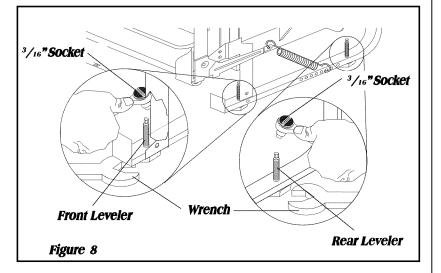


5

| Leg Leveler Adjustment Chart | |
|--|---------------------------------------|
| Height of Cabinet Opening | Number of Turns to Adjust Levelers |
| 34" (86.4cm) | 0 |
| 34¹/ଃ" (86.7cm) | 2 |
| 34 ⁵ / ₁₆ " (87.2cm) | 6 |
| 341/2" (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 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.

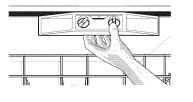


Figure 9a

Figure 9b

6

7. Check that dishwasher is level from front to back by placing level on side of opened door. See Figure 9b. 8. Adjust levelers up or down until dishwasher is level.

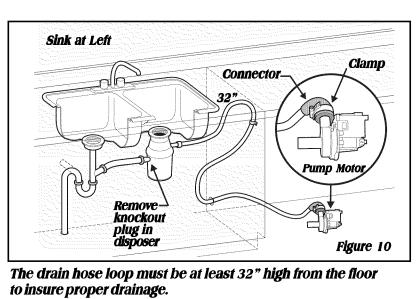
Finishing the Drain Connection

A WARNING

<u>S</u>

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. 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.
- 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.



A CAUTION

Property Damage

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

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

Be sure the dishwasher is placed where the water inlet valve

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

prevent early clogging of filter screen. Place a bunched towel

seconds and let water drain into a pan. Turn off water supply

over end of line to prevent splashing. Open valve for a few

1. Flush water line before connecting it to water inlet valve to

Through

Wall

Finishing the Water

the plastic parts in the valve may occur.

Damage to the filter screen may occur.

Connection

and flooding may occur.

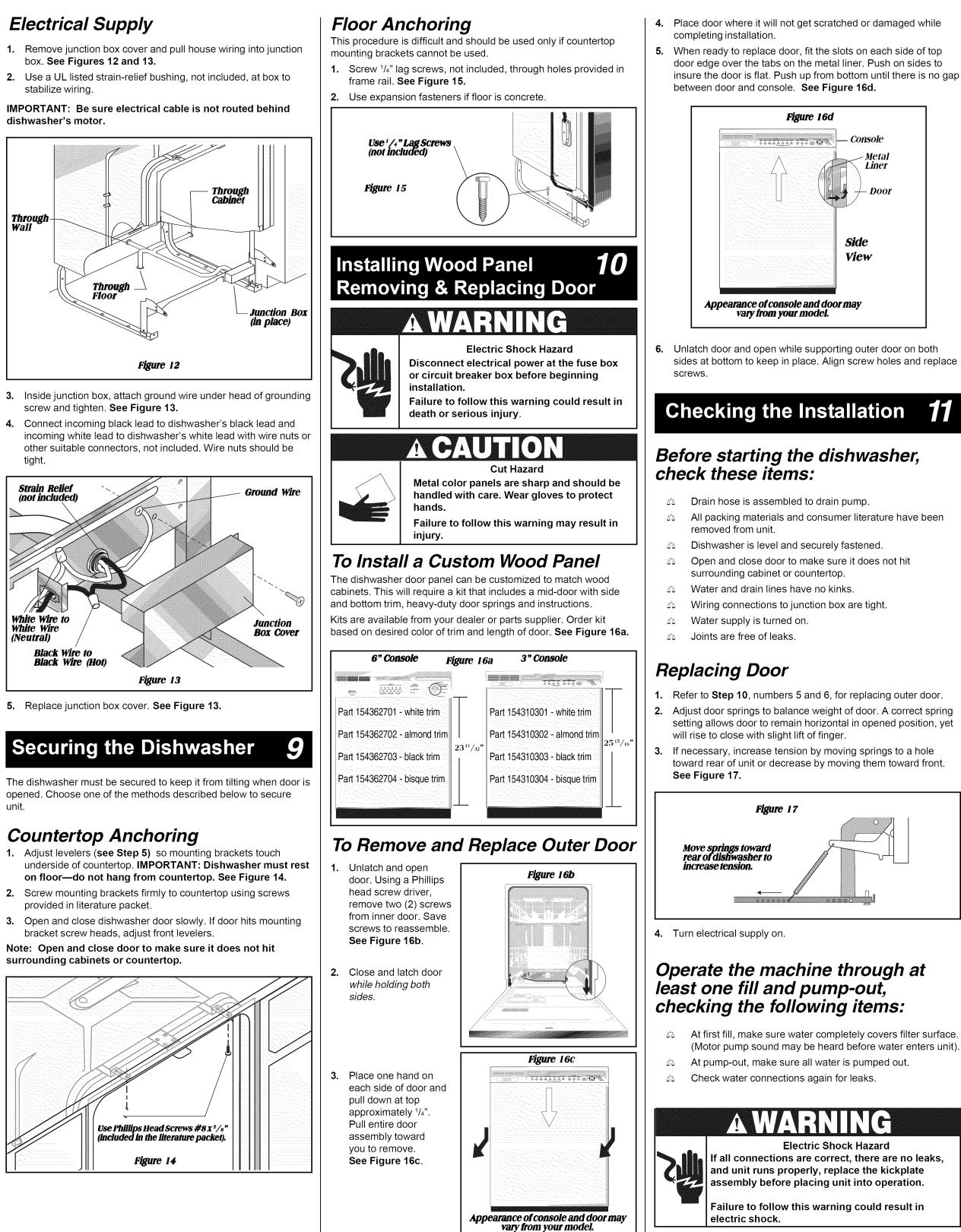
Water Line

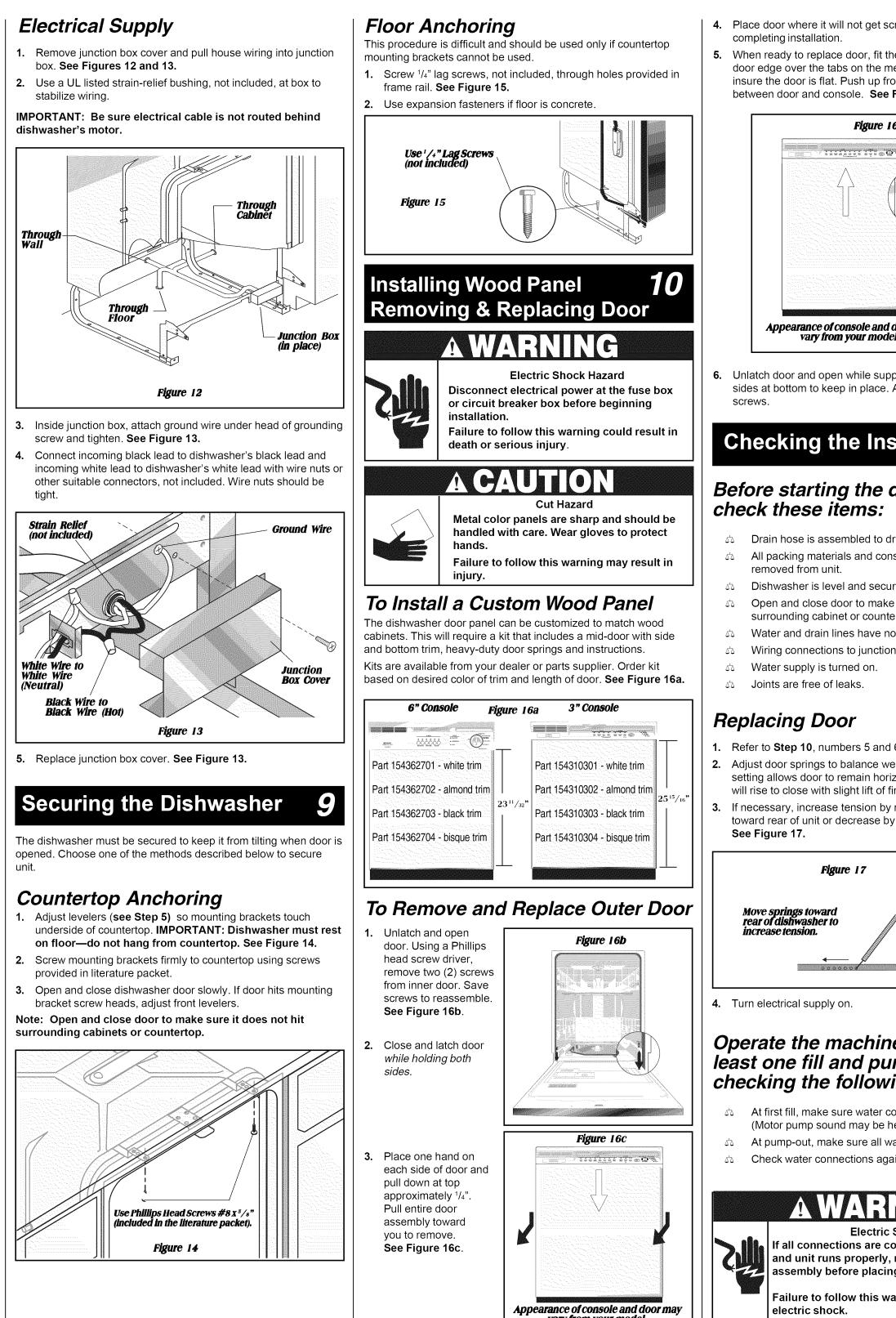
at shut-off valve.

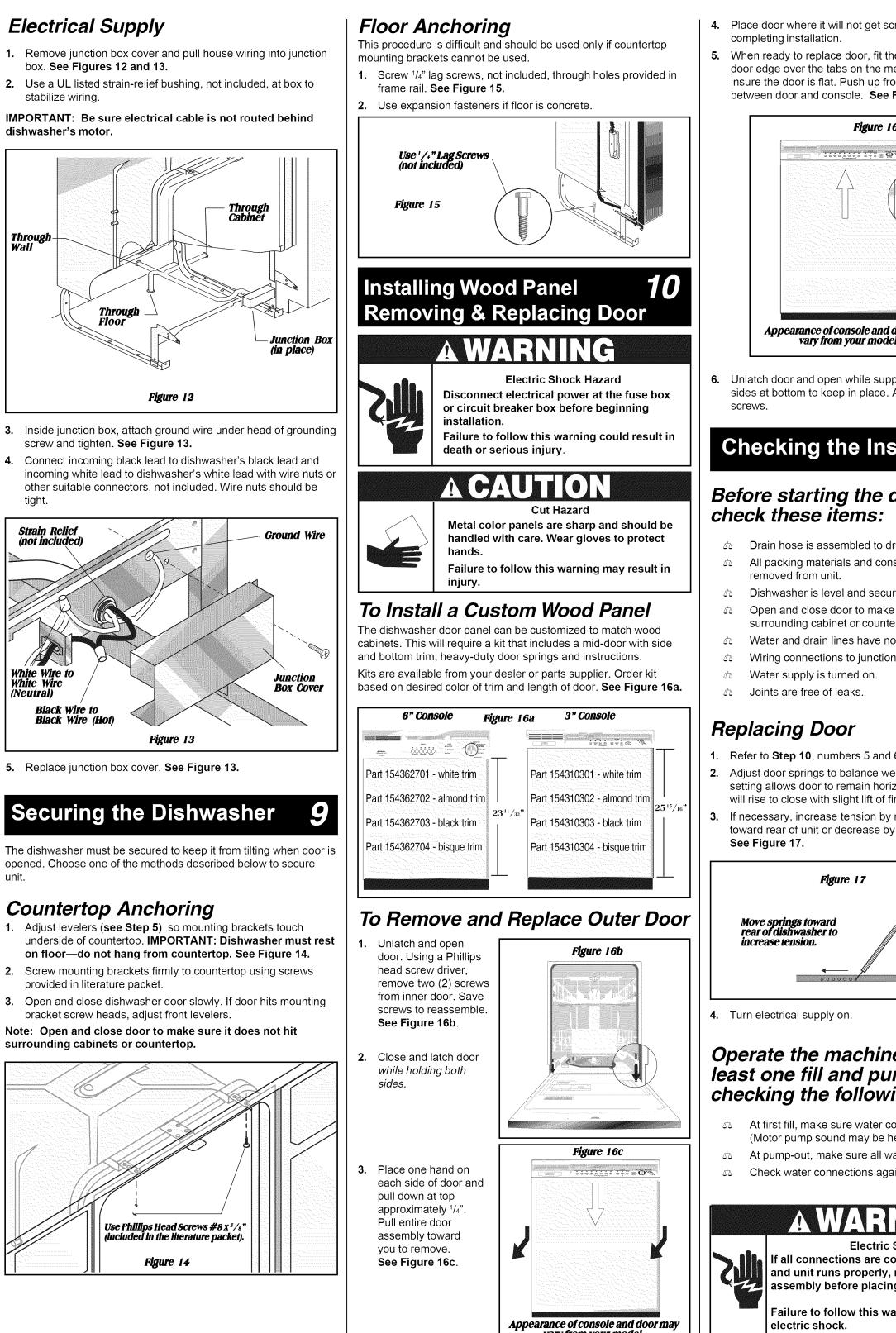
Figure 11

- box. See Figures 12 and 13.
- stabilize wiring.

dishwasher's motor







- Console

Side

View

Ne

Metal

Door

Line

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.

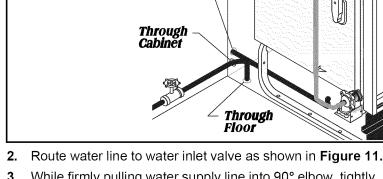
Do not connect the dishwasher to the power supply until the appliance is permanently grounded.

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.



- **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.

Remove four (4) screws at inlet end of valve and clean filter screen **Finishing the Electrical** 8 Connection **A WARNING**

