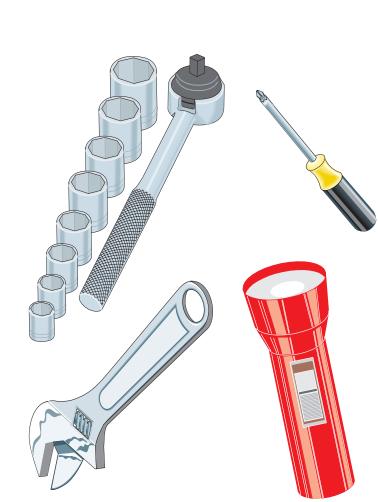
# Dishwasher Installation Instructions



**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.

154309601

#### **Before You Begin**

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

Read all instructions before installing dishwasher.

# **AWARNING**

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
- Gloves (for changing color panels)
- 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
- 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:

Fasteners for floor

· Strain Relief Bushing • Wire Nuts, two (2) for 12-14 gauge wire

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

• Side Panel Kit (See Step 3) "Y" Branch Tailpiece and

anchoring (See Step10)

in loading dishes. See Step 4.

Connector Kit (See Step 4) • Air Gap Kit (See Step 6)

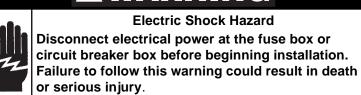
#### Plumbing Supply Store Plumbing Supply Store

Available at:

Hardware Store

Dealer or Distributor

# AWARNING



- Examine dishwasher and locate connections. See Step 4.
- Locate dishwasher where there is easy access to drain,
- 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.

water, and electrical lines. The best location is on either side

of the kitchen sink for access to existing plumbing and ease

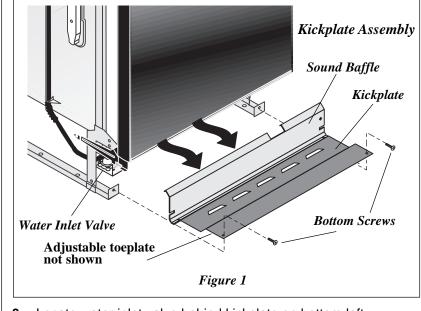
- A 15-20 amp, grounded, 120 volt AC only, electrical supply is required. See Steps 4 and 9.
- If dishwasher drain hose will be connected to a food disposer for the first time, knock out plug located inside disposer inlet. See Steps 4 and 6.

Kinked water or drain hoses can cause problems. Do not

- remove drain hose from tub attachment. 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 8.
- Each home installation differs. You will need additional parts listed above to complete your installation. See Steps 4 and 8.
- Flush water line prior to making the final connection to prevent clogging of dishwasher's filter screen. See Step 8.
- The dishwasher will look, sound, and perform best when properly leveled. See Step 7. (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 10.

# Installation Preparation

- Remove two (2) screws at front of the kickplate assembly using a #2 Phillips screw driver. 2. Remove kickplate by pulling down to clear top mounting tabs.
- Pull forward to clear front frame. 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 5.



- 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

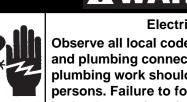
### **AWARNING**

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

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

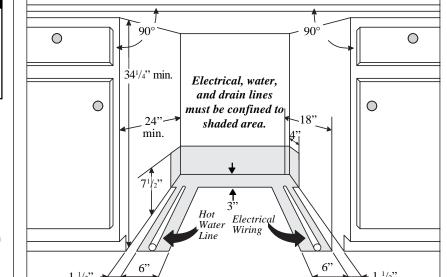
cooktop range. Damage to plastic tub will occur.

# **Electric Shock Hazard**



Roughing In

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.



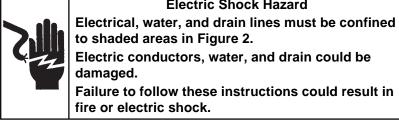
IMPORTANT: For proper operation and appearance of unit, cabinet opening should have dimensions as shown in Figure 2. If unit is to be placed in a corner, there must be at least a 2-inch side clearance to open door.

Figure 2

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.

#### AWARNING **Electric Shock Hazard**



**Side Panel Kit** If dishwasher is installed at end of a cabinet line, sides and back must be fully enclosed. Side panel kits are available from the store that sold this appliance.

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

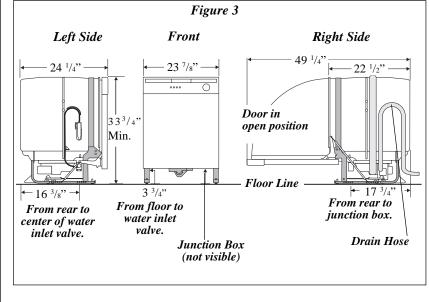
front of dishwasher motor or frame Locating the Connections

IMPORTANT: Do not cross drain, water, and electrical lines in

#### 1. 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.

IMPORTANT: Do not remove drain hose from side of unit.



#### 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

junction box on right underside of unit behind kickplate

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

**ACAUTION** 

**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. Determine amount of tubing needed to connect hot water supply

minimum 3/8" OD. High-pressure and high-temperature rated

used. A shut-off valve installed outside dishwasher cabinet is

Figure 4

IMPORTANT: Incoming hot water temperature should be at

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

dishwasher to drain system. Choose method that best suits your

Right Side

Remove Knock out

Figure 5

least 120°F (49°C). Water pressure should be between

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

5. Route water supply line into installation area

"Y" Branch Tailpiece

-2" Access Hole

Dishwasher

Drain Hose

instructions. See Figure 5.

**Electrical Supply** 

box. See Figures 15 and 16.

plastic tubing with a minimum **inner** diameter of 1/4" may be

to the unit's water inlet valve. Copper tubing must have a

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.

best. See Figure 4.

Through

20-120 psi.

Drain

Electrical

Water

assembly. See Figure 3.

stabilize wiring. IMPORTANT: Be sure electrical cable is routed behind

**2.** Use a UL listed strain-relief bushing, not included, at box to

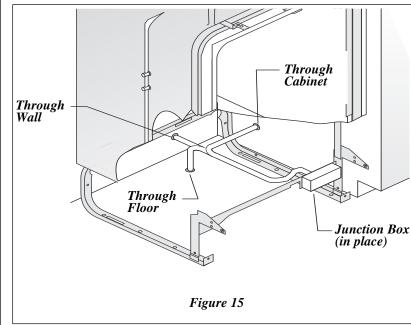
1. Remove junction box cover and pull house wiring into junction

2. If you connect to a sink drain, entry will need to be above trap.

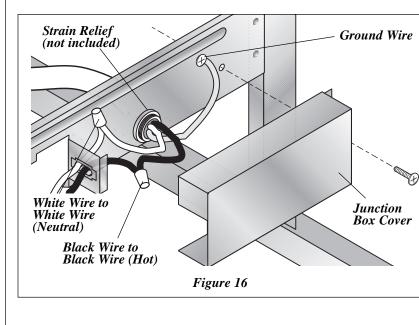
this method easier and includes all needed fittings and

A "Y" branch tailpiece and connector kit, not included, will make

#### dishwasher's motor and rear frame and away from motor bracket tines.

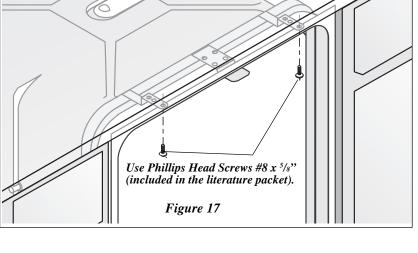


- 3. Inside junction box, attach ground wire under head of grounding screw and tighten. See Figure 16.
- 4. Connect incoming black lead to dishwasher's black lead and incoming white lead to dishwasher's white lead with wire nuts or other suitable connectors, not included. Wire nuts should be tight.
- 5. Replace junction box cover. See Figure 16.



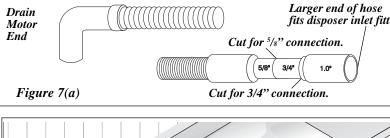
# Securing the Dishwasher

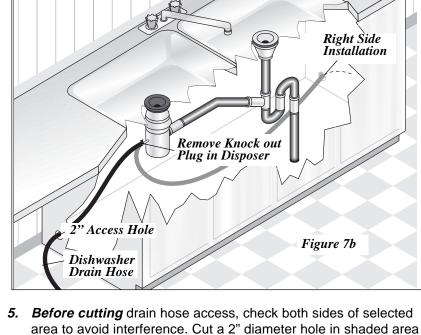
- underside of countertop. IMPORTANT: Dishwasher must rest on floor—do not hang from countertop. See Figure 17.
- 3. Open and close dishwasher door slowly. If door hits mounting
- bracket screw heads, adjust front levelers.



# Figure 6 Air Gap Right Side Installation

- 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).





- 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.

#### 1. Move dishwasher to front of installation area

2. If levelers have to be removed, make sure floor is free of all obstructions. Use caution moving dishwasher to prevent damage

Preparing for the Next Step

- to floor and cabinets. 3. Follow instructions in Steps 6, 8, and 9 to complete drain,

## Installing Wood Panel Removing & Replacing Door

## **AWARNING**

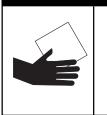


Disconnect electrical power at the fuse box or circuit breaker box before beginning Failure to follow this warning could result in death or serious injury.

Metal color panels are sharp and should be

**Electric Shock Hazard** 

**ACAUTION Cut Hazard** 



handled with care. Wear gloves to protect Failure to follow this warning may result in

## 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. Order kit based on the color of side trim desired

Part No. 154310301 has white trim Part No. 154310302 has almond trim. Part No. 154310303 has black trim

These kits are available from your dealer or parts supplier.

# To Remove and Replace Outer Door

- door. Using a Phillips head screw driver, remove two (2) screws from inner door. Save screws to reassemble. See Figure 10a. 2. Close and latch door while holding
- both sides. 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 10b. 4. Place door where
- scratched or damaged while completing installation. **5.** When ready to replace door, fit

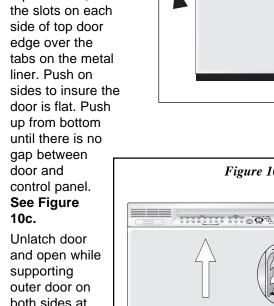
it will not get

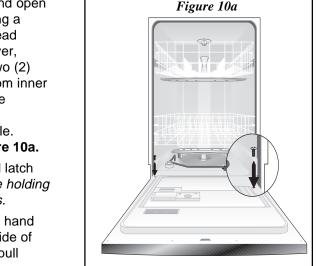
- side of top door edge over the tabs on the metal liner. Push on sides to insure the door is flat. Push up from bottom until there is no gap between door and
- control panel. See Figure 10c. Unlatch door and open while supporting outer door on both sides at bottom to keep in place. Align

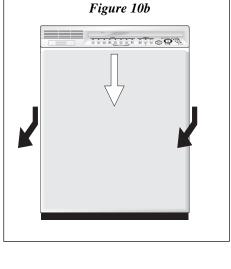
screw holes

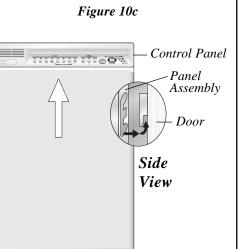
and replace

screws.







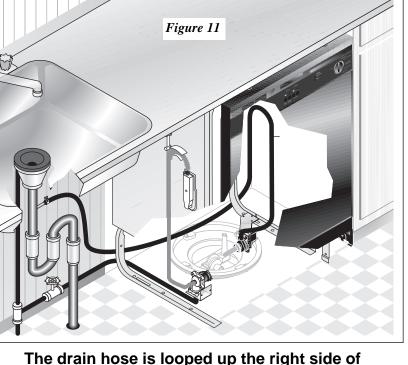


#### **Finishing the Drain** Connection

**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.

**AWARNING** 

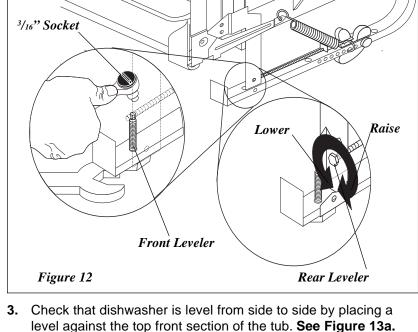
- 1. Move unit into place while routing drain hose through access hole. Use caution to prevent damage to the floor and cabinets. IMPORTANT: Make sure there are no sharp bends or kinks that might restrict drain flow.
- 2. Secure drain hose to sink drain, disposer, or separate trap with a clamp. IMPORTANT: 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
- 3. 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 11.



The drain hose is looped up the right side of unit to insure proper drainage. Do not remove hose from attachment.

#### Aligning Dishwasher to **Cabinets** 1. Space dishwasher inside cabinet area equally on each side.

2. Adjust front levelers so top of machine is 1/4" below underside of countertop. See Figure 12.



4. Check front to back level by placing level on side of opened door. See Figure 13b. 5. Adjust side to side level of dishwasher by turning front levelers at bottom front of unit. See Figure 12.

**6.** Adjust rear levelers to level dishwasher from front to back by

turning screws at bottom front of unit. See Figure 12.

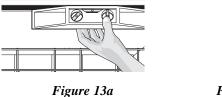


Figure 13b 7. If levelers were removed for installation, level unit with shims

#### **Finishing the Water** Connection

# **ACAUTION**

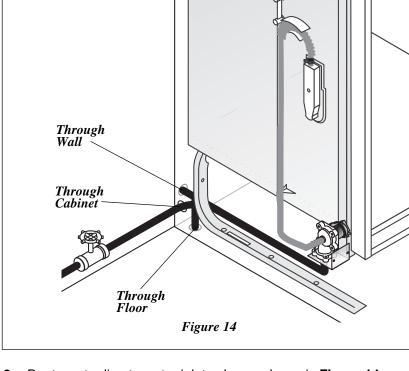
**Property Damage** Do not solder within 6" of the water inlet valve. Damage to

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 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 14. **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.
- 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** 9

# Connection **AWARNING**



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

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

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

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

should be done by a qualified electrician using materials

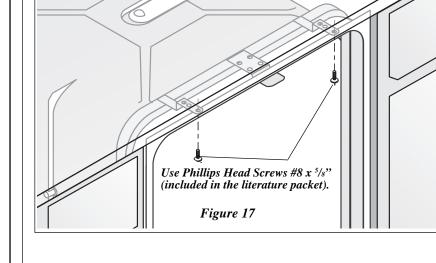
Do not use an extension cord. Such use can result in fire,

recognized by UL and local codes.



## 1. Adjust levelers (see Step 7) so mounting brackets touch

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 18.

2. Use expansion fasteners if floor is concrete.

#### Before starting the dishwasher, check these items:

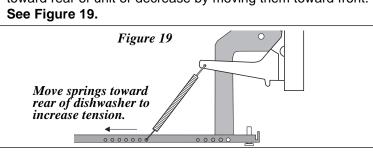
- removed from unit.
- ☐ Dishwasher is level and securely fastened.
- Wiring connections are tight Water supply is turned on.

## Replacing Door

Joints are free of leaks.

1. Refer to **Step 5**, number 5, for replacing outer door.

setting allows door to remain horizontal in opened position, yet will rise to close with slight lift of finger. If necessary, increase tension by moving springs to a hole toward rear of unit or decrease by moving them toward front.



#### 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.

At pump-out, make sure all water is pumped out. Check water connections again for leaks.

Reinstalling Kickplate Assembly



electric shock.

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

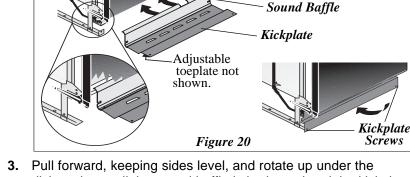
**Electric Shock Hazard** 

**AWARNING** 

(Motor pump sound may be heard before water enters unit).

#### 1. Position adjustable toeplate to back of kickplate assembly and place at bottom front of unit with sound baffle on top. 2. Hold assembly on each side and slide back to touch front frame.

Kickplate Assembly



dishwasher until the sound baffle is horizontal and the kickplate is vertical. The holes in the kickplate will fit over the two plastic posts molded into the bottom left and bottom right-of-center of

4. Replace two screws into kickplate assembly.

# 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

Figure 18

# Checking the Installation 11

☐ All packing materials and consumer literature have been

Water and drain lines have no kinks.

2. Adjust door springs to balance weight of door. A correct spring

4. Turn electrical supply on.