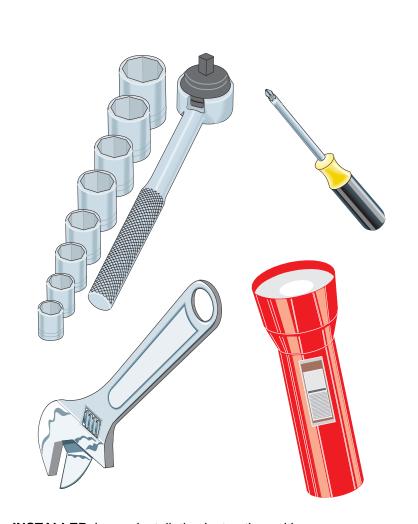
Dishwasher Installation

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.

154256102

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.

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)
- Level
- 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

- Elbow, 90° with a 3/8" National Pipe Thread Strain Relief Bushing
- Wire Nuts, two (2) for 12-14 gauge wire
- If required: • "Y" Branch Tailpiece and

Fasteners for floor

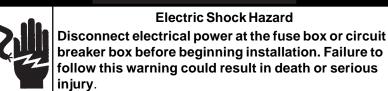
Connector Kit (See Step 4) • Air Gap Kit (See Step 4)

anchoring (See Step 10)

- Plumbing Supply Store
 - Plumbing Supply Store Hardware Store

Available at:

AWARNING



- 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.
- 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. Steps 4 and 8.
- Each home installation differs. You will need additional parts listed above to complete your installation. See Steps 4 and 8.

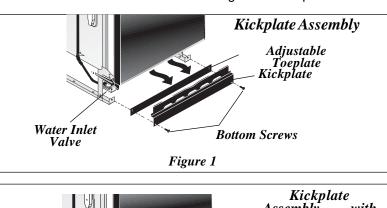
Flush water line prior to making the final connection to prevent

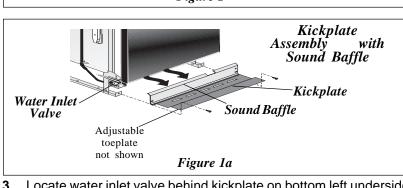
- clogging of dishwasher's filter screen. See Step 8. The dishwasher will look, sound, and perform best when properly leveled. See Step 7. (NOTE: If levelers are removed during installation, make sure the floor is flat and free of any
- Anchor the dishwasher to countertop. See Step 10.

Installation Preparation

- 1. Remove two (2) screws at front of the kickplate assembly using a #2 Phillips screw driver.
- 2. Pull forward to remove. (Figure 1) Models with Sound Baffle, remove kickplate assembly by pulling down to clear two plastic posts on bottom of tub. Pull forward to clear front frame.

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.

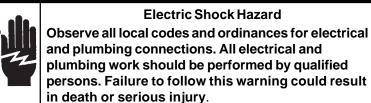




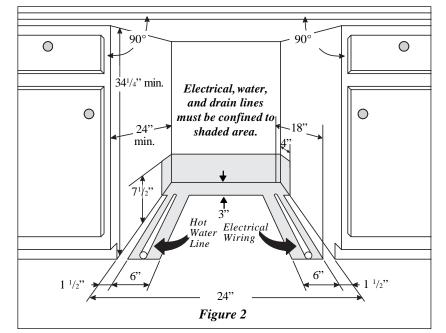
- 3. Locate water inlet valve behind kickplate on bottom left underside of unit. The valve has a 3/8" NPT female fitting.
- 4. Wrap 90° elbow (not included) with pipe thread tape (or apply joint compound) and thread it into water inlet valve.
- 5. Tighten elbow with a wrench, leaving elbow pointing toward rear of unit. To prevent bending of bracket or breaking of valve, avoid overtightening.

Roughing In

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.

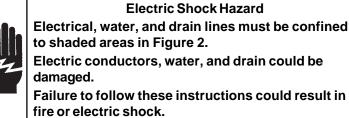


IMPORTANT: For proper operation and appearance of unit, cabinet opening should have dimensions as shown in Figure 2. If unit is to be placed in a corner, there must be at least a 2-inch side clearance to open door.

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.

AWARNING



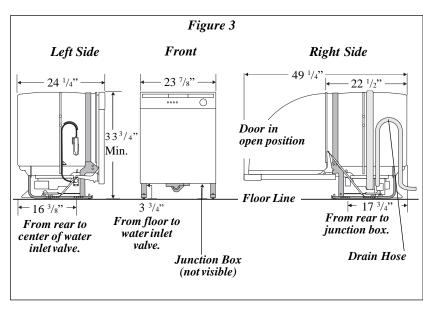
NOTE: If dishwasher is installed at end of a cabinet line, sides and back must be fully enclosed.

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

- 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.

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.
- 3. Cut access hole in shaded area shown in Figure 2.
- 4. Pull electrical cable through hole into installation area.

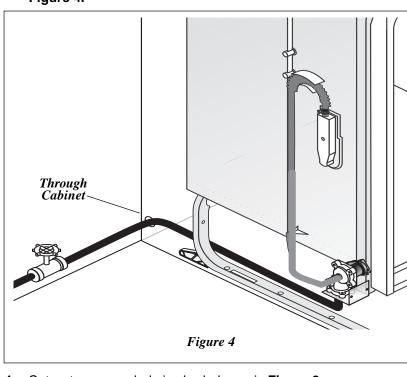
1. Determine where you will connect to hot water supply. Review

Figure 3 and note the location of water inlet valve.

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. Flooding may occur and cause property damage.

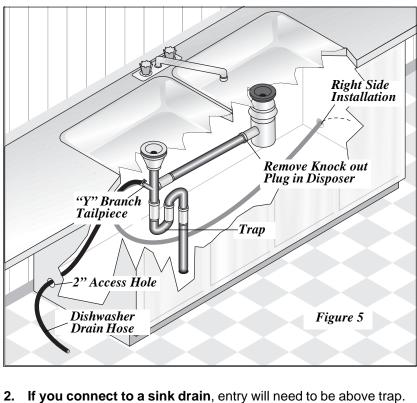
- 2. Be sure water inlet valve is protected from freezing. If valve freezes and ruptures, flooding may occur.
- 3. Determine amount of tubing needed to connect hot water supply to the unit's water inlet valve. Copper tubing must have a minimum ³/₈" OD. High-pressure and high-temperature rated plastic tubing with a minimum **inner** diameter of 1/4" may be used. A shut-off valve installed outside dishwasher cabinet is best. See Figure 4.



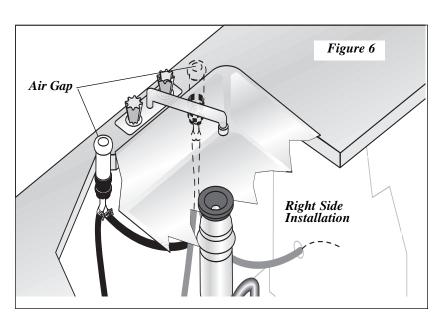
4. Cut water access hole in shaded area in Figure 2. 5. Route water supply line into installation area. IMPORTANT: Incoming hot water temperature should be at least 120°F (49°C). Water pressure should be between 20-120 psi.

Drain

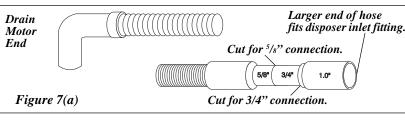
1. Review Figures 5 and 6 to see the different ways to connect dishwasher to drain system. Choose method that best suits your

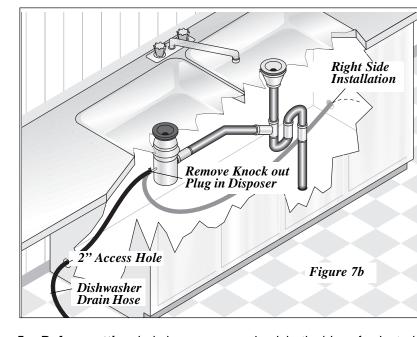


A "Y" branch tailpiece and connector kit, not included, will make this method easier and includes all needed fittings and instructions. See Figure 5.



- 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.
- 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).





- 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.

Preparing for the Next Step

Move dishwasher to front of installation area

to floor and cabinets.

- 2. If levelers have to be removed, make sure floor is free of all obstructions. Use caution moving dishwasher to prevent damage
- 3. Follow instructions in Steps 6, 8, and 9 to complete drain, electrical, and water connections.

Installing Wood Panels Removing & Replacing Door

AWARNING



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. **ACAUTION**

Cut Hazard

Metal color panels are sharp and should be handled

Electric Shock Hazard

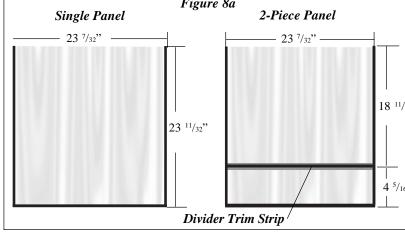
with care. Wear gloves to protect hands. Failure to follow this warning may result in injury.

This kit is available from your dealer or parts supplier.

To Install Custom Wood Panels On some models, a wood door panel(s) can be customized to match your cabinets. A panel(s) up to 1/4" thick may be used to replace the panel(s) furnished with your unit. A heavy duty door spring kit (Part No. 154289301) is needed if the panel(s) weighs more than 4 pounds.

2-Piece Panel Single Panel

1. Cut wood door panel(s) to the dimensions in Figure 8a.



2. File or sand edges of wood panel(s) until smooth. To protect wood panel(s) from humidity, apply a moisture-resistant sealer on sides

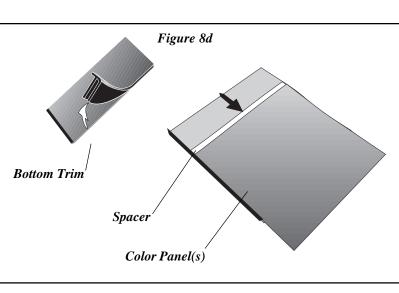
and edges Figure 8b 3. Unlatch and open door. Using a Phillips head screwdriver, remove two (2) screws from inner door. Save screws for reassembly. See Figure 8b. 4. Close and latch door while holding both sides. 5. Place one hand on each side of door and pull down at top approximately 1/4". Pull entire door assembly toward

See Figure 8c. 6. Lay door assembly on flat surface and pull up on bottom trim to remove. Slide color panel(s), spacer(s), and divider trim strip (if included on your model) down and remove. Save panel(s) and spacer(s) for future

use. See Figure 8d. 7. Starting at bottom, insert custom panel inside edges of door. Push up into place. Note: If installing 2-piece panel, start with upper panel and insert inside edges of door and push all the way up. Then insert divider trim strip and push up until panel fits securely in channel. Follow same procedure for lower panel See Figure 8e.

you to remove.





Replace bottom trim by fitting slot over bottom edge of door. Secure by pressing from one

side to the other. Reinstall door by fitting the slots on each side of top door edge over the tabs on the metal liner. Push in to insure the door is flat. Push up from bottom until there is no gap between door and control panel. It may be necessary to loosen bottom screw on each side

of control panel for proper fit when replacing door. See Figure 8f. 10. Unlatch door and open while supporting door on both sides at bottom to keep in place. Align screw holes and replace screws. Tighten

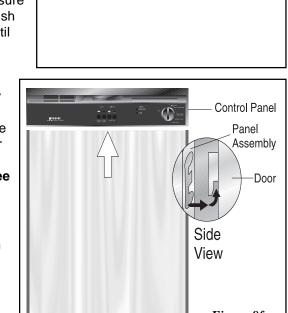
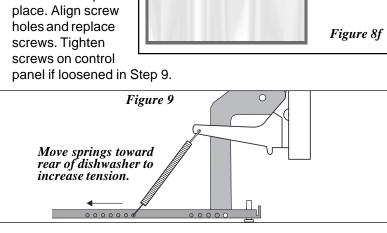


Figure 8e



- 11. Adjust door springs to balance weight of wood panel. A correct spring setting allows door to remain horizontal in opened position, yet will rise to close with slight lift of finger.
- 12. If necessary, increase tension by moving springs to a hole toward rear of unit or decrease by moving them toward front.

Finishing the Drain 6 Connection

AWARNING

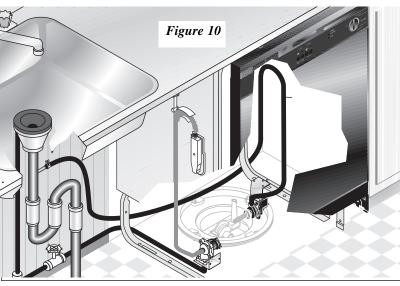


Electric Shock Hazard Plumbing material and drain hose must not come in contact with wiring or electrical components. Failure to follow this warning could result in personal injury from exposed wiring.

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. 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

1. Move unit into place while routing drain hose through access hole.

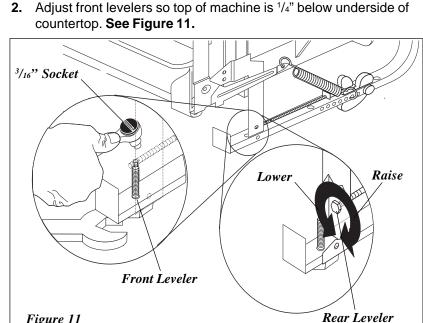
between sink drain and disposer. 3. Be sure unit does not rest on drain hose. It should be free of electrical components and door springs. Do not cut corrugated drain hose. Pull excess through cabinet and place under sink. Make sure hose does not come in contact with any sharp edges. See Figure 10.



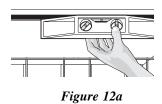
The drain hose is looped up the right side of unit to insure proper drainage.

Do not remove hose from attachment.

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



- Figure 11 3. Check that dishwasher is level from side to side by placing a level against the top front section of the tub. See Figure 12a.
- Check front to back level by placing level on side of opened door. See Figure 12b.
- **5.** Adjust side to side level of dishwasher by turning front levelers at bottom front of unit. See Figure 11 6. Adjust rear levelers to level dishwasher from front to back by



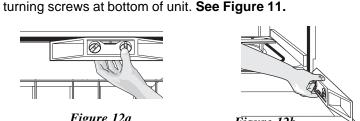


Figure 12b

7. If levelers were removed for installation, level unit with shims. **Finishing the Water** Connection

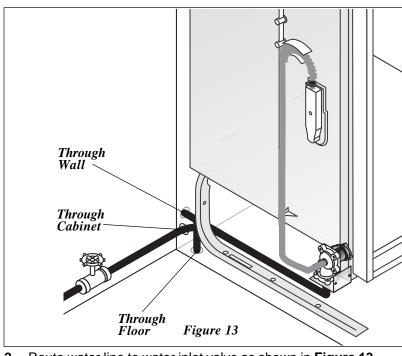
ACAUTION

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 13. 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 Connection

AWARNING

9

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

qualified installer to make sure the electrical installation conforms with the National Electrical Code and local codes

connected to the appliance's equipment grounding terminal

conductor must be run with the circuit conductors and

or lead. It is the consumer's responsibility to contact a

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

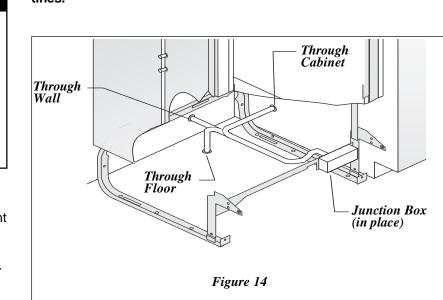
Do not use an extension cord. Such use can result in fire, electrical shock, or other personal injury. Failure to follow these instructions could result in death or serious injury.

stabilize wiring.

recognized by UL and local codes.

- **Electrical Supply**
- 1. Remove junction box cover and pull house wiring into junction box. See Figures 14 and 15. 2. Use a UL listed strain-relief bushing, not included, at box to

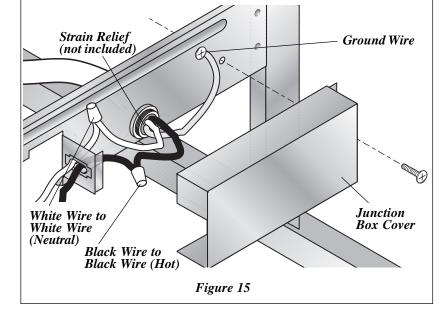
IMPORTANT: Be sure electrical cable is routed behind dishwasher's motor and rear frame and away from motor bracket



3. Inside junction box, attach ground wire under head of grounding

screw and tighten. See Figure 15. 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.



Securing the Dishwasher 10

is opened. Choose one of the methods described below to secure Countertop Anchoring

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

The dishwasher must be secured to keep it from tilting when door

on floor—do not hang from countertop. See Figure 16. 2. Screw mounting brackets firmly to countertop using screws

underside of countertop. IMPORTANT: Dishwasher must rest

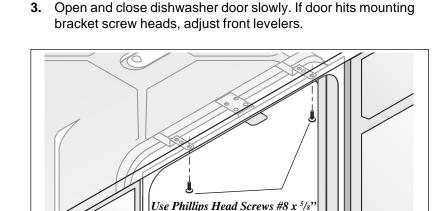


Figure 16

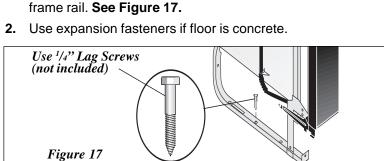
provided in literature packet.

Floor Anchoring

This procedure is difficult and should be used only if countertop mounting brackets cannot be used.

(included in the literature packet).

1. Screw 1/4" lag screws, not included, through holes provided in frame rail. See Figure 17.



Checking the Installation 11

check these items:

Before starting the dishwasher,

☐ All packing materials and consumer literature have been removed from unit. ☐ Dishwasher is level and securely fastened.

Wiring connections to junction box are tight.

■ Water and drain lines have no kinks.

□ Water supply is turned on.

2. Turn electrical supply on.

☐ Joints are free of leaks. Replacing Door 1. Refer to Step 5, numbers 9 and 10, for replacing outer door.

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.

electric shock.

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

AWARNING



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

Reinstalling Kickplate Sound Baffle Assembly

1. Place adjustable toeplate (leaving insulation attached) in back of kickplate assembly.

- 2. Hold assembly on each side and, with the sound baffle closest to the dishwasher, place under back side of door. To avoid damage to the floor, raise assembly slightly and slide back until it touches the front frame.
- 3. Keep assembly flat and aligned on both sides, pull forward about 1/2" to 3/4". Then rotate assembly up under the dishwasher until the sound baffle is horizontal and the kickplate is vertical.

4. Replace two screws in kickplate assembly.