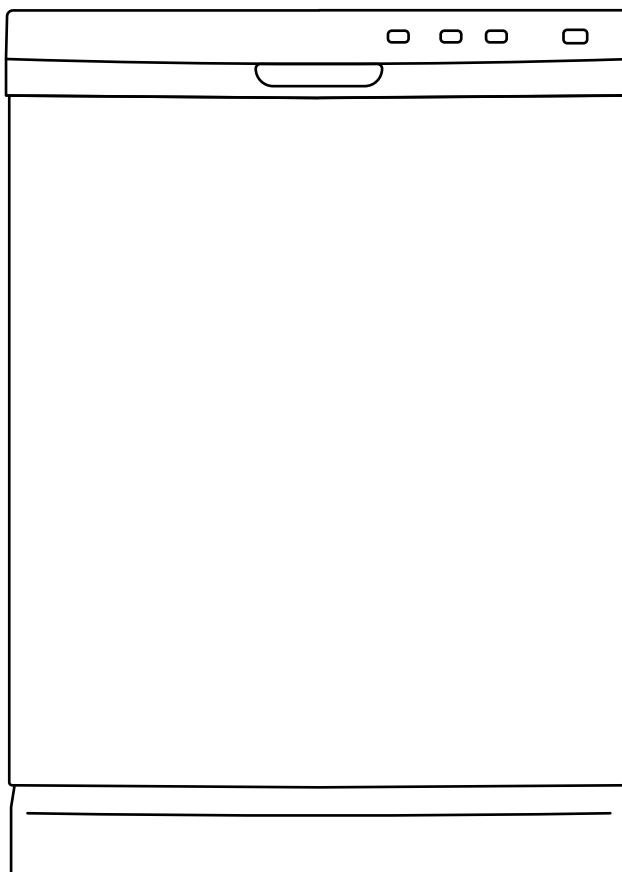


INSIGNIA™

## INSTALLATION GUIDE

# 24 in. Front Control Dishwasher

NS-DWF2WH26/NS-DWF2SS26



Before using your new product, please read these instructions to prevent any damage.  
Most up-to-date *Installation Guide* is available from [www.bestbuy.com](http://www.bestbuy.com)

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## Introduction

Congratulations on your purchase of a high-quality Insignia product! Your NS-DWF2WH26 or NS-DWF2SS26 represents the state of the art in dishwasher design and is designed for reliable and trouble-free performance. This installation guide will show you how to install your new dishwasher.

## Important Safety Instructions

**Read all instructions before use.**

**Keep these instructions.**



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your dishwasher.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your dishwasher.



## BEFORE YOU BEGIN

Read these instructions completely and carefully.

## IMPORTANT

- Observe all governing codes and ordinances.
- **Note to Installer** – Be sure to leave these instructions for the consumer's and local inspector's use.
- **Note to Consumer** – Keep these instructions with your *User Guide* for future reference.
- **Skill Level** – Installation of this dishwasher requires basic mechanical and electrical skills. **Proper installation is the responsibility of the installer. Product failure due to improper installation is not covered under the Appliance Warranty.**
- **Completion Time** – One to three hours. New installations require more time than replacement installations.
- The dishwasher **MUST** be installed to allow for future removal from the enclosure if service is required.
- If you received a damaged dishwasher, you should immediately call Insignia Customer Service at 1-877-467-4289.
- If you have an installation problem, contact your dealer or installer. You are responsible for providing adequate electrical, water, drain, and other connecting facilities.

## FOR YOUR SAFETY

- Read and observe all CAUTIONS and WARNINGS shown throughout these instructions.
- While performing installations described in this booklet, gloves and safety glasses or goggles should be worn.



## WARNING

• This dishwasher comes with a heating element to heat the water. To avoid the risk of a serious burn, don't touch the heating element when the dishwasher is on.



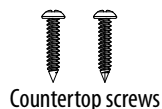
### WARNING



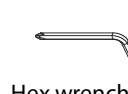
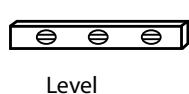
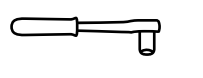
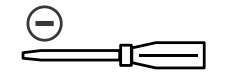
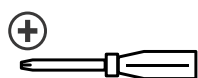
To reduce the risk of electrical shock, fire, or injury to persons, the installer must ensure that the dishwasher is completely enclosed and installed at the time of installation.

## Installation tips

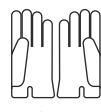
### Parts supplied:



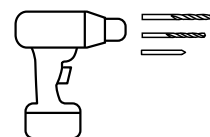
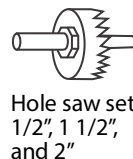
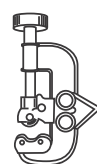
### Tools needed (not provided):



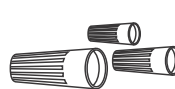
#### Other recommended tools



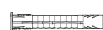
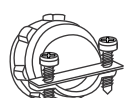
#### New installations only



### Materials needed (not included):



#### Additional materials that may be needed for some installations



**⚠ 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.

**Things to consider**

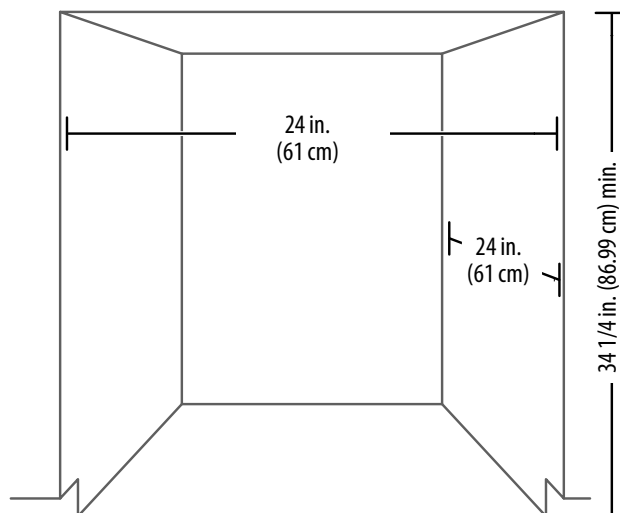
- Locate your dishwasher where there is easy access to drain, water, and electrical lines. The best location is on either side of the kitchen sink for access to existing plumbing and ease in loading dishes.
- Electrical, water, and drain connections are not the same for all age, brands, or models of dishwashers. Check the location and length of home utilities.
- A 15-20 amp, grounded, 120 volt AC only, electrical supply is required.
- If dishwasher drain hose will be connected to a food disposer for the first time, knock out plug located inside disposer inlet.
- Kinked water or drain hoses can cause problems.
- Dishwashers need to be connected to a hot water supply with enough water pressure to insure an adequate fill.
- Flush water line prior to making the final connection to prevent clogging of dishwasher's filter screen.
- The dishwasher will look, sound, and perform best when properly leveled.

**Note:** If levelers are removed during installation, make sure the floor is flat and free of obstructions.

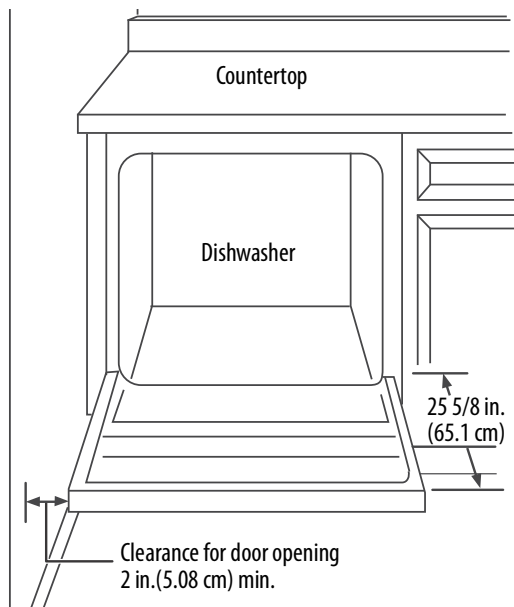
**Preparing to install your dishwasher****Enclosure requirements****⚠ WARNING: Electric Shock Hazard**

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.

- The dishwasher includes a drain hose. If you are installing this dishwasher with a different drain hose, make sure that the drain hose is no more than 10 ft. (3.01 m) in length, for proper drainage.
- The dishwasher is designed to be enclosed on the top, both sides, and back by a standard residential kitchen cabinet unit.
- Remove any carpet from area to provide motor clearance. The installation enclosure must be clean and free of any obstructions.
- Make sure your location has the right drain, water, and electrical outlets to make the connections. Do not install the unit under a cooktop range. Damage to plastic tub will occur.
- The rough cabinet opening must be at least 24 in. (61 cm) deep and 34 1/4 in. (86.99 cm) high.
- For the front door of the dishwasher to be flush with the front edge of the countertop, the countertop must be 24 in. (61 cm) deep.



If installing into a corner, allow 2 in. (5.08 cm) min. clearance between the dishwasher and the adjacent cabinet, wall, or other appliances. Allow 25-5/8 in. (65.1 cm) min. clearance from the front of the dishwasher for opening the door.



## Cabinet preparation and wire routing

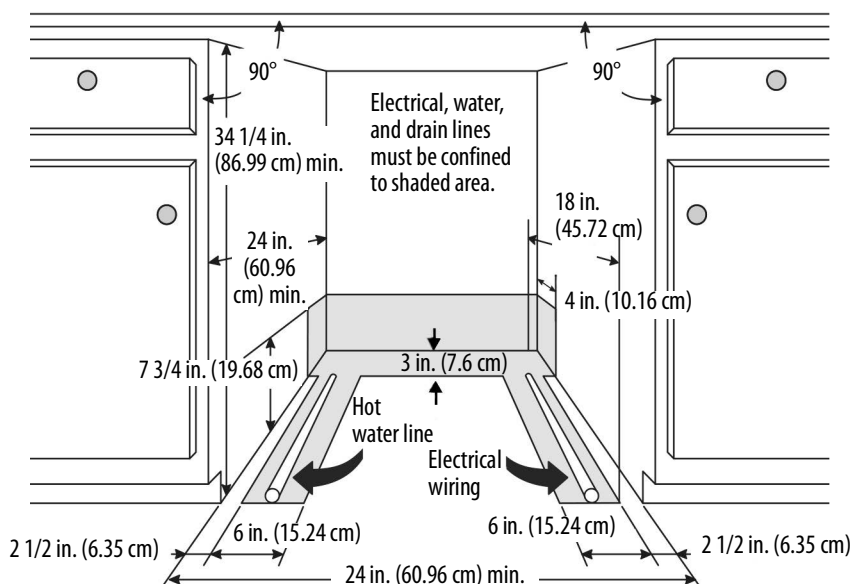


### WARNING: Electric Shock Hazard



Electrical, water, and drain lines must be confined to shaded areas shown below. Otherwise electric conductors, water, and drain could be damaged. Failure to follow these instructions could result in fire or electric shock.

- The wiring may enter the opening from either side, the rear, or the floor within the shaded area.
- The electrical connection is on the right front of the dishwasher.
- Drill a 1 1/2 in. (3.81 cm) maximum diameter hole to run the electrical cable through the wall of the cabinet.
- The hole must be free of sharp edges. If the cabinet wall is metal, the hole edge must be covered with a bushing or rubber grommet.
- Cable direct connections may pass through the same hole as the drain hose and hot water line, but power cords with plugs must pass through a separate hole.



**Important:** Drain, water, and electrical lines should be roughed-in before going any further.

## Connections for electrical, water, and drain

### **WARNING: For personal safety**



Remove the house fuse or open the circuit breaker before beginning the installation. Do not use an extension cord or adapter plug with this appliance.

**Important:** Do not cross drain, water, and electrical lines in front of dishwasher motor or frame.

### Electrical requirements

- This appliance must be supplied with 120V, 60Hz electricity, and connected to its own, properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse.
- Wiring must be two wire plus ground.
- If the electrical supply does not meet the above requirements, call a licensed electrician before proceeding.

### Grounding instructions

#### Grounding Instructions – Cable Direct

This appliance must be connected to a grounded metal, permanent wiring system, or an equipment grounding conductor must be run with the circuit conductors and be connected to the equipment grounding terminal or lead on the appliance.

### Wiring Method

- The cable must be routed as shown in [Cabinet preparation and wire routing](#) on page 6, and extend a minimum of 24 in. (60.96 cm) from the rear wall.
- Use flexible, armored or nonmetallic sheathed, copper wire with grounding wire that meets the wiring requirements for your home and local codes and ordinances.
- Use a UL Listed/CSA Approved strain relief.

## Preparing the hot water line

### **CAUTION: Property Damage**



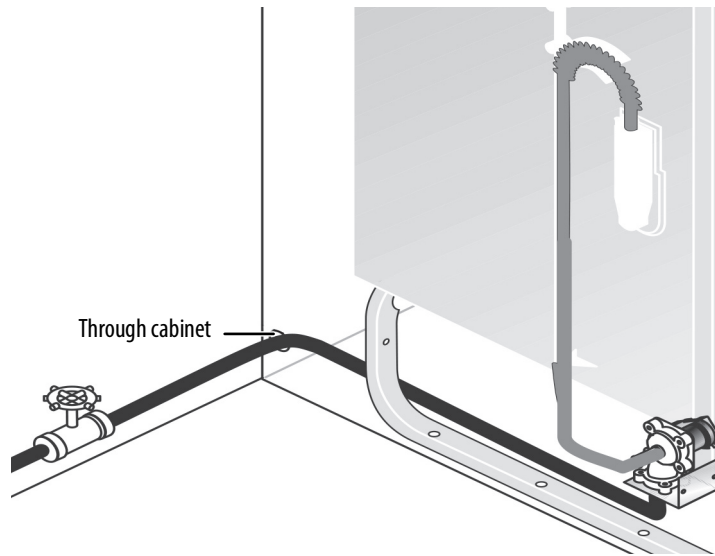
- Do not use the furnished drain hose or a rubber garden hose for the water supply line. Either hose can burst. Flooding may occur and cause property damage.
- Do not solder within 6" of the water inlet valve. Damage to the plastic parts in the valve may occur.
- Use care that no sealer, dirt, or other 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.

- The water connection is on the left front of dishwasher.
- The hot water line may enter the opening from either side, the rear, or the floor within the shaded area (on page 6).
- The hot water line may pass through the same hole as the electrical and drain hose. Or, you can drill an additional 1 1/2 in. (3.81 cm) maximum diameter hole for the hot water line.
- If a power cord with a plug is used, the hot water line may not pass through the same hole as the power cord.

## Connecting the water line to the water supply

- 1 Turn off the water supply.
- 2 Install a hand shut-off valve in an accessible location, such as under the sink. This is optional, but strongly recommended, and may be required by local codes.

- 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 in. OD. High-pressure and high-temperature rated plastic tubing with a minimum inner diameter of 1/4 in. may be used. A shut-off valve installed outside dishwasher cabinet is best.



- 4 Adjust the water heater to a temperature of from 120° to 150° F (49° to 65° C).
- 5 Flush the water line to clean out any debris.

**Note:** The hot water pressure must be between 20 and 120 psi.

### Drain requirements

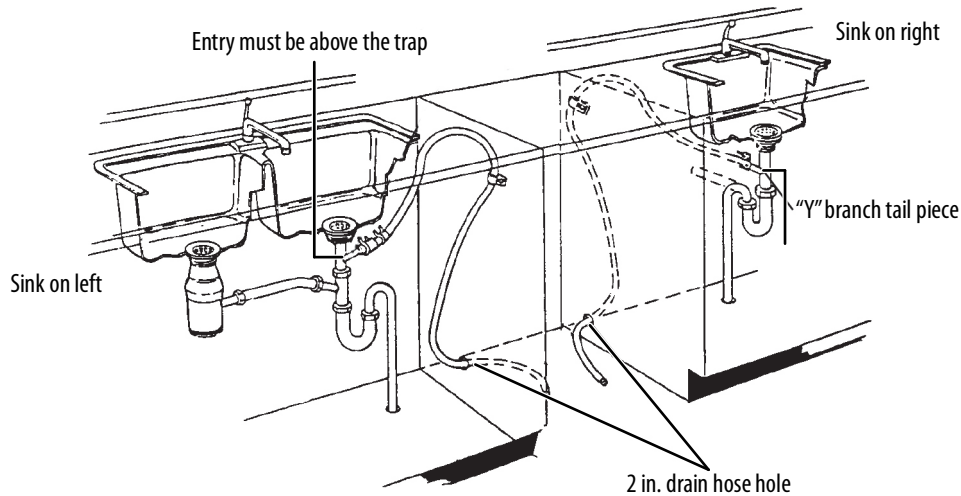
- Follow all local codes and ordinances.
- Do not exceed 10 ft. (3.01 m) of drain hose.
- Do not connect the drain lines from other devices to the dishwasher drain hose.
- The dishwasher must be connected to a waste line with an air gap (not provided) or a 32 in. (81.28 cm) high (min.) drain loop, depending on local codes and ordinances, to prevent back flow into the dishwasher.
- An air gap must be used if the waste tee or garbage disposal connection is less than 18 in. (45.72 cm) above the floor, to prevent siphoning.

## Drain preparation

Review the sections below to see the different ways to connect the dishwasher to the drain system. Choose the method that best suits your need.

### If you connect to a sink drain

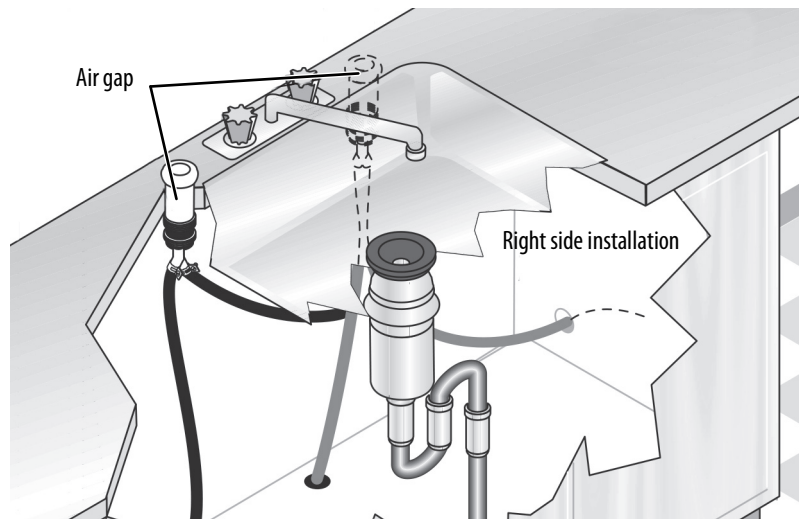
Entry will need to be above the trap. A "Y" branch tail piece and connector kit (not included), will make this method easier and includes all needed fittings and instructions. See the illustration below.



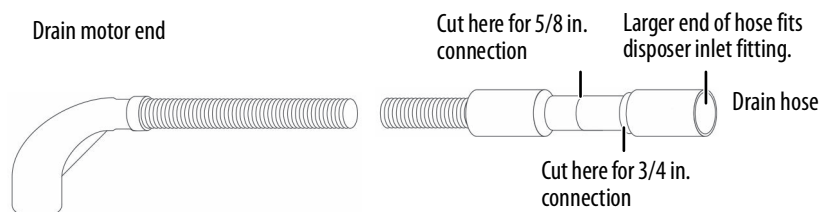
### If you connect to a sink trap

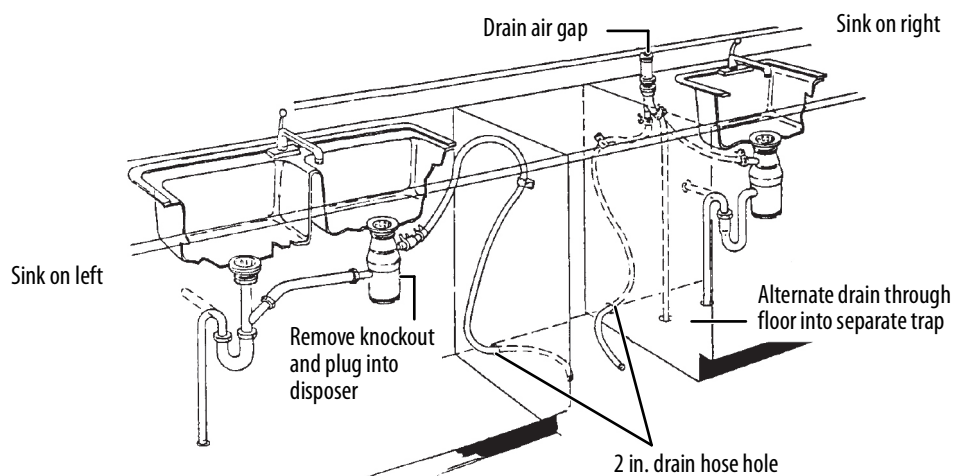
Local codes may require you to install an air gap kit, (not included). The drain hose must be routed from your dishwasher to the air gap inlet. An air gap kit is available from a plumbing supply store.

**Note:** If the drain hose is installed through the floor, an air gap is necessary.



If you connect to a disposer, the large end of the drain hose will fit. The knock out plug must be removed from inside of the disposer inlet before making the final fit to the drain hose.





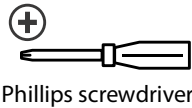
Before cutting the drain hose access, check both sides of the selected area to avoid interference with any obstacles behind the cutting area. Cut a 2 in. (5 cm) diameter hole in the shaded area (see image on page 6).

If the cabinet wall is wood, sand edges of the hole until smooth and rounded. If the cabinet wall is metal, cover all sharp edges with electrical or duct tape, a grommet or a bushing can be used as well, to avoid cutting the drain hose.

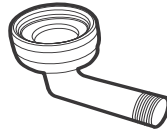
# Installation instructions

## Step 1: Removing the toekick

### You will need:



Phillips screwdriver



90° (3/4") Elbow



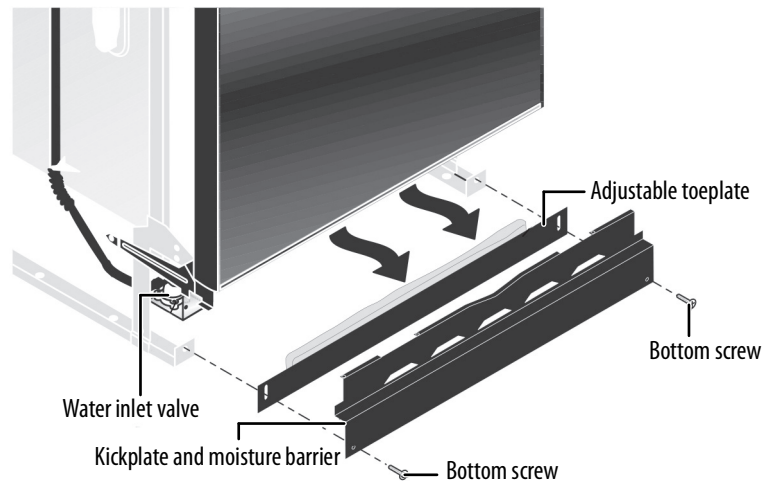
Teflon thread seal tape or pipe joint compound



Adjustable wrench

- 1 Remove the two (2) screws from the front of the kick plate assembly using a Phillips screw driver.
- 2 Tilt and pull forward to remove.

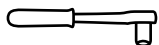
**Note:** It is not necessary to remove the outer door for installation. However, you might find it more convenient to do so.



- 3 Locate the water inlet valve behind the kickplate on the bottom left underside of your dishwasher. The valve has a 3/8 in. NPT or 3/4 in. hose thread fitting. (If using a 3/4 in. hose thread fitting, do not use teflon tape and skip steps 4 and 5).
- 4 Wrap a 90° elbow (not included) with pipe thread tape (or apply joint compound) and thread it onto the water inlet valve.
- 5 Tighten the elbow with a wrench, leaving the elbow pointing toward the rear of your dishwasher. To prevent bending the bracket or breaking the valve, avoid overtightening.

## Step 2: Adjusting the leveling legs

### You will need:



Socket wrench (5/32",  
1/4", and 5/16")



Adjustable wrench 15/16"

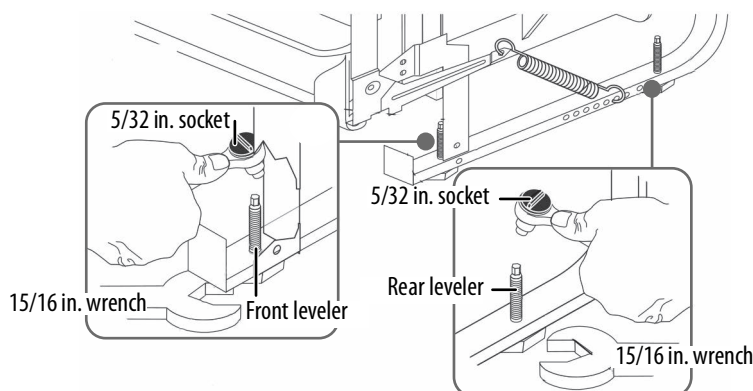


Level

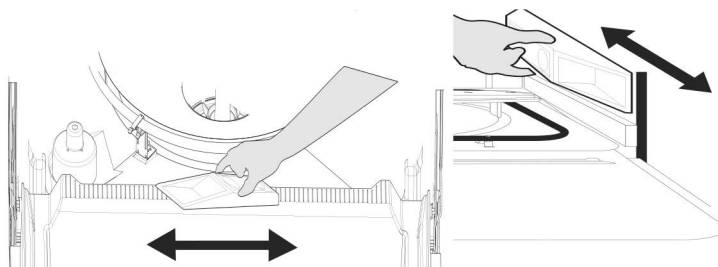
- 1 Measure the height of the cabinet opening from the underside of the countertop to the floor. Check the chart for height opening and suggested adjustment. For additional height add shims under levelers.

Height of cabinet opening	Number of turns to adjust levelers
34 in. (86.4 cm)	0
34 1/8 in. (86.7 cm)	2
34 5/16 in. (87.2 cm)	6
34 1/2 in. (87.6 cm)	9

- 2 Move your dishwasher to the front of the installation area.
- 3 Loosen the front and rear leveling legs by turning them counterclockwise. Refer to the chart above for the number of turns. Front levelers should be 1/4 in. below the underside of the countertop.



- 4 Place your dishwasher inside the cabinet area so that it is centered in the opening. Use caution when moving your dishwasher to prevent damage to the dishwasher, floor, and cabinets. If levelers have to be removed, make sure the floor is free of obstructions.
- 5 Remove the lower rack to check that dishwasher is level from side to side by placing a level on the bottom of the inner door.



- 6 Remove the lower rack to check that your dishwasher is level from front to back by placing the level at the bottom of the tub at the lower rack wheel support.
- 7 Adjust the levelers up or down until your dishwasher is level.
- 8 Replace the lower rack back into place after your dishwasher has been leveled.

### Step 3: Finishing the drain connection

**⚠ WARNING: 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.

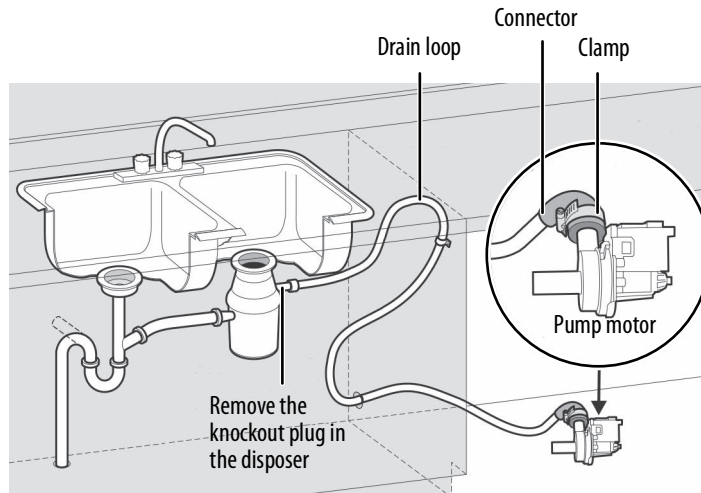
- 1 Pull out your dishwasher and check to see if the drain hose is still correctly attached to the drain pump assembly. If the drain hose is not attached to the drain pump, follow the instruction sheet (included with the drain hose) on how to correctly install the drain hose to the drain pump assembly.
- 2 Move your dishwasher back into place, while routing the drain hose through the 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 the drain hose to the sink drain, disposer, or separate trap with a clamp.

**Important:** Be careful not to overtighten the clamp or you may damage the end of the hose. Do not connect the hose to the horizontal pipe between the sink drain and the disposer.

- 4 Make sure that your dishwasher does not rest on the drain hose. It should be free of electrical components and door springs. Do not cut the corrugated drain hose. Pull the excess through the cabinet and place it under the sink. Make sure that the hose does not come in contact with any sharp edges.



**Important:** The drain hose loop must be at least 32 in. (81.28 cm) high from the floor to insure proper drainage.

## Step 4: Connecting the water supply line

### CAUTION

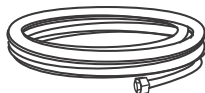


- Do not solder within 6 in. (15 cm) of the water inlet valve. Damage to the plastic parts in the valve may occur.
- Use care that no sealer, dirt, or other objects enter the valve. Damage to the filter screen may occur.
- Be sure your dishwasher is placed where the water inlet valve will be kept from freezing. If the valve freezes, it may rupture and flooding may occur.

### You will need:



Teflon thread  
seal tape or pipe  
joint compound

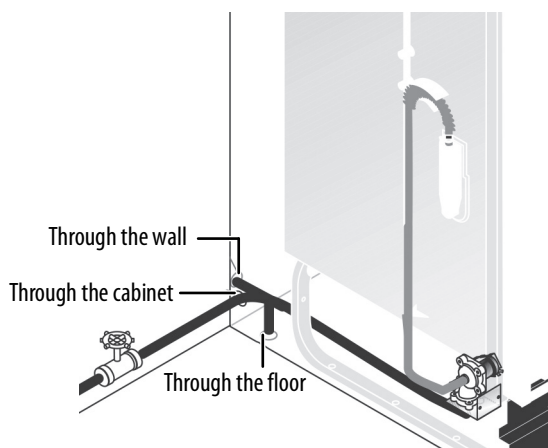


Hot water line kit



Adjustable wrench

- 1 Flush the water line before connecting it to the water inlet valve to prevent early clogging of the filter screen.
- 2 Place a bunched towel over the end of the line to prevent splashing, then open the water supply valve for a few seconds and let water drain into a pan. Turn off the water supply at the shut-off valve.



- 3 Route the water line to the water inlet valve as shown above.
- 4 While firmly pulling the water supply line into the 90° elbow, tightly connect the water supply line to the water inlet valve. The supply line must be free of kinks, scales, chips, and lubricants.
- 5 Turn on the water supply and check for leaks.
- 6 If the water inlet valve clogs, make sure that the water supply is turned off. If using a 3/8 in. NPT valve, remove four (4) screws at the inlet end of the valve and clean the filter screen. If using a 3/4 in. hose thread fitting, simply clean the filter screen.

## Step 5: Installing the power connection

### **WARNING: 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.

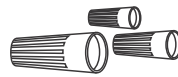
### You will need:



Torx screwdriver



Electrical cable or power cord (See *Electrical Requirements* section)



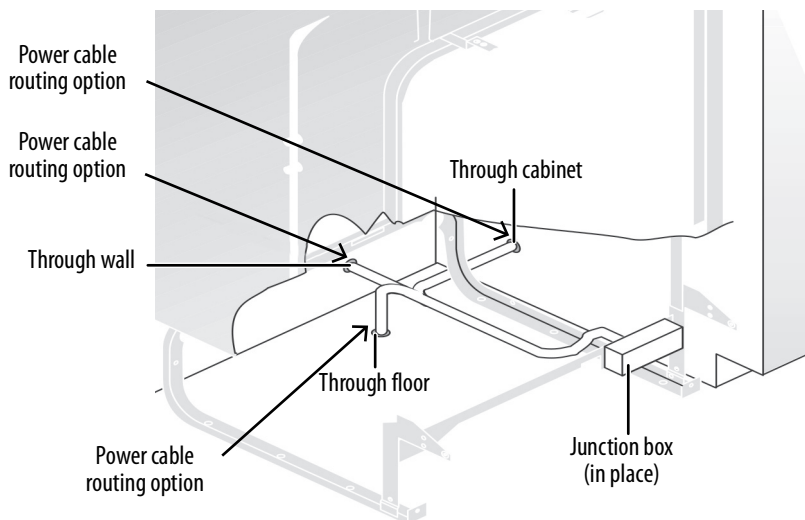
Three Wire nuts (UL listed)  
(two included in kit)



Electrical conduit connector

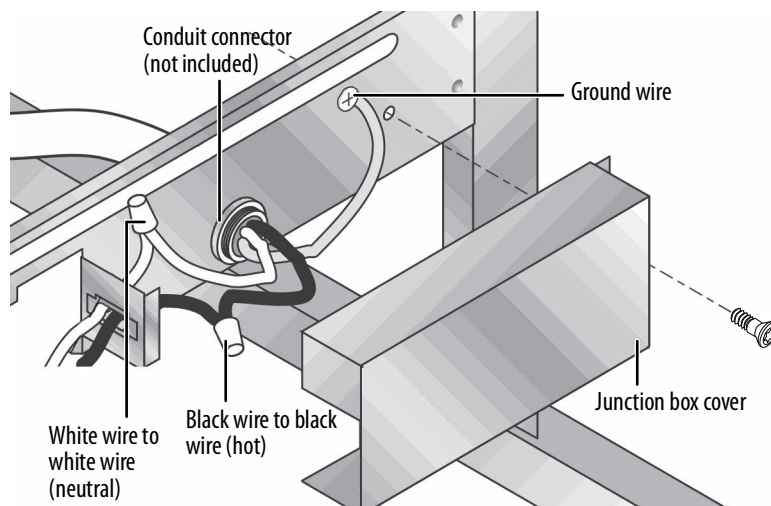
- 1 Remove the junction box cover and pull the house wiring into the junction box.
- 2 Use a UL listed conduit connector, (not included), at the box to stabilize the wiring.

**Important:** Make sure that the electrical cable is not routed behind the dishwasher's motor.



- 3 Inside the junction box, attach the ground wire under the head of the grounding screw and tighten.

- 4 Connect the incoming hot lead to the dishwasher's black lead and the incoming neutral lead to the dishwasher's white lead with wire nuts or other suitable connectors (not included). Wire nuts should be tight.



- 5 Replace the junction box cover.

## Step 6: Securing the dishwasher under the countertop

### You will need:



Torx wrench

Your dishwasher must be secured to keep it from tilting when the door is opened. Choose one of the methods described below to secure your dishwasher.

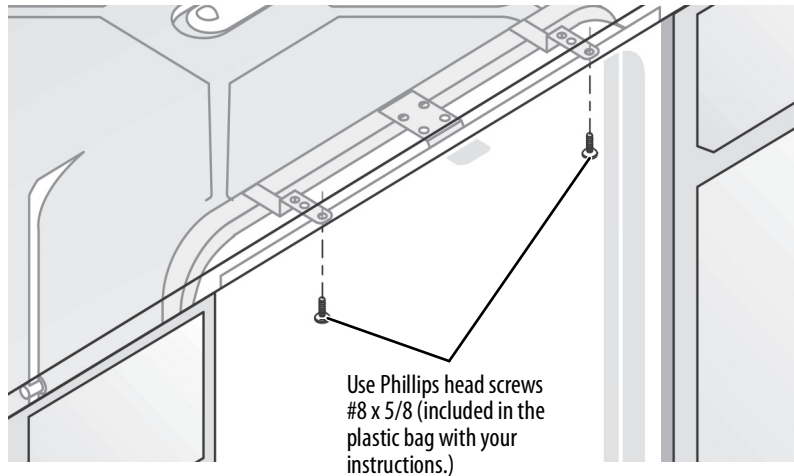
### Anchoring to the countertop

- 1 Adjust the levelers ([Step 2: Adjusting the leveling legs](#) on page 12) so that the mounting brackets touch the underside of countertop.

**Important:** Your dishwasher must rest on floor—do not hang from the countertop.

- 2 The tub needs to be even with the front of the adjoining cabinets.
- 3 Screw the mounting brackets firmly to the countertop using screws provided in the plastic bag with your instructions.

- 4 Open and close your dishwasher door slowly. If the door hits the mounting brackets, lower the dishwasher (both front and rear).



**Note:** Open and close the door to make sure that it does not hit the surrounding cabinets or the countertop.

### Anchoring to the floor

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

- Screw 1/4 in. lag screws (not included), through holes provided in the frame rail. Use concrete anchors if the floor is concrete.

**Note:** If mounting your dishwasher to the countertop or to the floor is not a desirable option, you can order the side mount kit, 154806601/02, by contacting Insignia service and parts. This allows you to install the dishwasher by securing it to the cabinets or partitions on either side of the unit. The kit utilizes the front frame of the dishwasher to secure the unit to the cabinet or partitions. Call Insignia Customer Service at 1-877-467-4289.

## Removing and replacing the door

### **WARNING: Electric Shock Hazard**



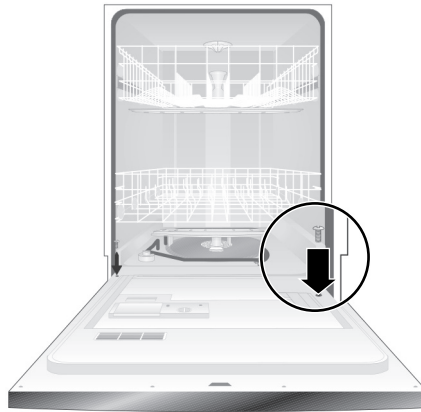
- Disconnect electrical power at the fuse box or circuit breaker box before beginning the installation.
- Failure to follow this warning could result in death or serious injury.

### **CAUTION**

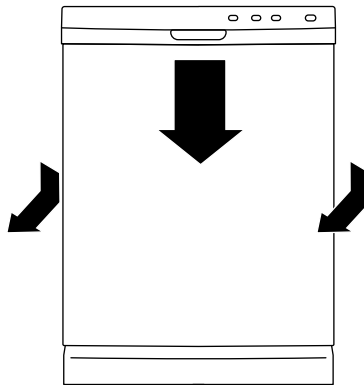


Cut hazard. Metal color panels are sharp and should be handled with care. Wear gloves to protect hands. Failure to follow this warning may result in injury.

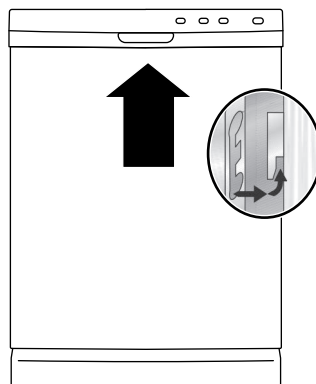
- 1 Unlatch and open the door. Using a Phillips screwdriver, remove the four (4) screws from the inner door. Save the screws to reassemble.



- 2 Close and latch the door while holding both sides.
- 3 Place one hand on each side of the door and pull down at the top approximately 1/4 in. Pull the entire door assembly toward you to remove it.



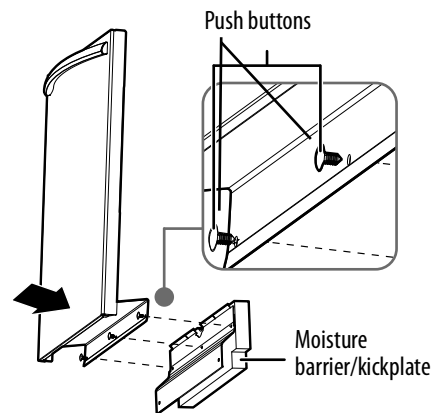
- 4 Place the door where it will not get scratched or damaged while completing the installation.
- 5 When you're ready to replace the door, fit the slots on each side of the top door edge over the tabs on the metal liner. Push on the sides to insure that the door is flat. Push up from the bottom until there is no gap between the door and the console.



- 6 Unlatch the door and open it, while supporting the outer door on both sides at the bottom to keep it in place. Align the screw holes and replace the screws.
- 7 Adjust the door springs to balance the weight of the door. A correct spring setting allows the door to remain horizontal in the opened position, yet rise to close with a slight lift of a finger.

- 8 If necessary, increase the tension by moving the springs to a hole toward the rear of the unit or decrease by moving them toward the front.
- 9 Turn the electrical supply on.

## Installing the moisture barrier



- 1 With the dishwasher door closed, align the three holes in the moisture barrier with the three holes in the dishwasher kickplate.
- 2 Firmly push in the three plastic push buttons (provided) to attach the moisture barrier to the kickplate.
- 3 Check to make sure that the moisture barrier is securely mounted to the kickplate.
- 4 Slide the adjustable toeplate until it is aligned with the bottom of the dishwasher, then insert and tighten the two front screws. This provides additional coverage for taller cabinets or uneven floors.

## Checking the installation

### Check these items:

- The drain hose is assembled to the drain pump.
- All packing materials and consumer literature have been removed from the unit.
- The dishwasher is level and securely fastened.
- Open and close the door to make sure it does not hit the surrounding cabinet or countertop.
- The water and drain lines have no kinks.
- The wiring connections to the junction box are tight.
- The water supply is turned on.
- Joints are free of leaks.

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

- At first fill, make sure that water completely covers the filter surface. (Motor pump sound may be heard before water enters the unit).
- At pump-out, make sure all water is pumped out.
- Check the water connections again for leaks.



### **WARNING: Electric Shock Hazard**



If all connections are correct, there are no leaks, and your dishwasher runs properly, replace the kick plate assembly before placing unit into operation. Failure to follow this warning could result in electric shock.

# INSIGNIA™

Part #A30409201

**For product inquiries, please contact us with the information below:**

**1-877-467-4289**

**[www.insigniaproducts.com](http://www.insigniaproducts.com)**

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