



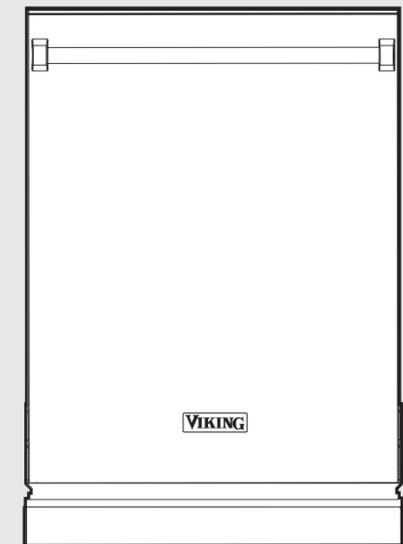
# Installation GUIDE



**Viking Range, LLC**

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For product information, call 1-888-845-4641  
or visit the Viking Website at [vikingrange.com](http://vikingrange.com)



**VIKING**  
324 Series  
Built-In Dishwashers

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# IMPORTANT— Please Read and Follow

- Before beginning—please read these instructions completely and carefully.
- **DO NOT** remove permanently affixed labels, warnings, or rating plates from the dishwasher. This may void warranty or create an unsafe product.
- Please observe all national and local codes.
- Please ensure that this product is properly grounded.
- The installer should leave these instructions with the consumer who should retain for local inspector's use and for future reference.
- The dishwasher has a factory installed backflow preventer. **DO NOT** add an additional check valve.
- Failure to provide a 20" above floor level (50.8 cm) high loop may result in improper operation of the dishwasher.
- Remove pallet screws from base. Damage could occur to dishwasher if screws are not removed.

**⚠ WARNING**

Make sure that incoming voltage is the same as unit rating. An electric rating plate specifying voltage, hertz, and amps is attached to the product. Wiring the dishwasher with more voltage than it is rated for may cause severe damage. To reduce the risk of fire, electric shock, or injury to persons, installation work and electrical wiring must be done by qualified technician in accordance with all applicable codes and standards, including fire-rated conditions.

**⚠ WARNING**

Plumbing connections must comply with applicable sanitary, safety and plumbing codes.

**⚠ WARNING**

Electrical power must be turned off at circuit breaker or fuse box before making electrical connections. Disconnect the electrical power supply and place a tag at the disconnect switch indicating that you are working on the circuit.

**⚠ WARNING**

The dishwasher door may not stay open by itself until the door panel is installed. Be aware of this when fastening the dishwasher to the cabinet.

**Site Preparation** It is recommended that a thorough site inspection be conducted PRIOR to unpacking and moving this appliance.

## IMPORTANT—Please Read and Follow!

### **WARNING**

#### **ELECTRICAL SHOCK HAZARD**

- Electrically ground dishwasher.
- Connect ground wire to green ground connector in terminal box.
- **DO NOT** use an extension cord.
- Failure to follow these instructions, can result in death, fire or electrical shock.

### **WARNING**

#### **TIP OVER HAZARD**

- **DO NOT** use dishwasher until completely installed.
- **DO NOT** push down on open door.
- Doing so can result in serious injury or cuts.

### **WARNING**

#### **EXCESSIVE WEIGHT HAZARD**

Use two or more people to move and install dishwasher. Failure to do so can result in back or other injury.

### **WARNING**

Plumbing connections must comply with applicable sanitary, safety, and plumbing codes.

### **CAUTION**

The dishwasher has a factory installed backflow preventer. **DO NOT** add an additional check valve.

### **WARNING**

Disconnect the electrical power supply and place a tag at the disconnect switch indicating that you are working on the circuit.

### **WARNING**

Be sure electrical power is turned off at circuit breaker or fuse box before servicing or installing unit. **DO NOT** use an extension cord for this appliance.

### **WARNING**

Improper connection of the equipment – grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the appliance is properly grounded. **DO NOT** modify the plug provided with the appliance; if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

## IMPORTANT— Please Read and Follow

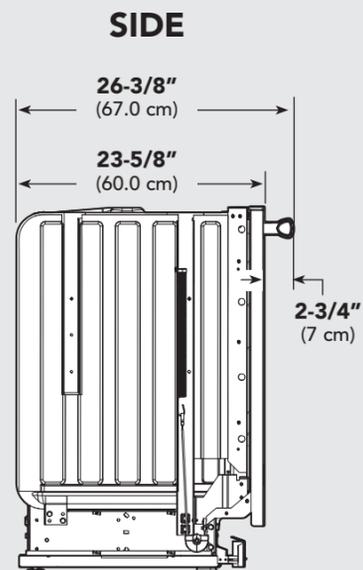
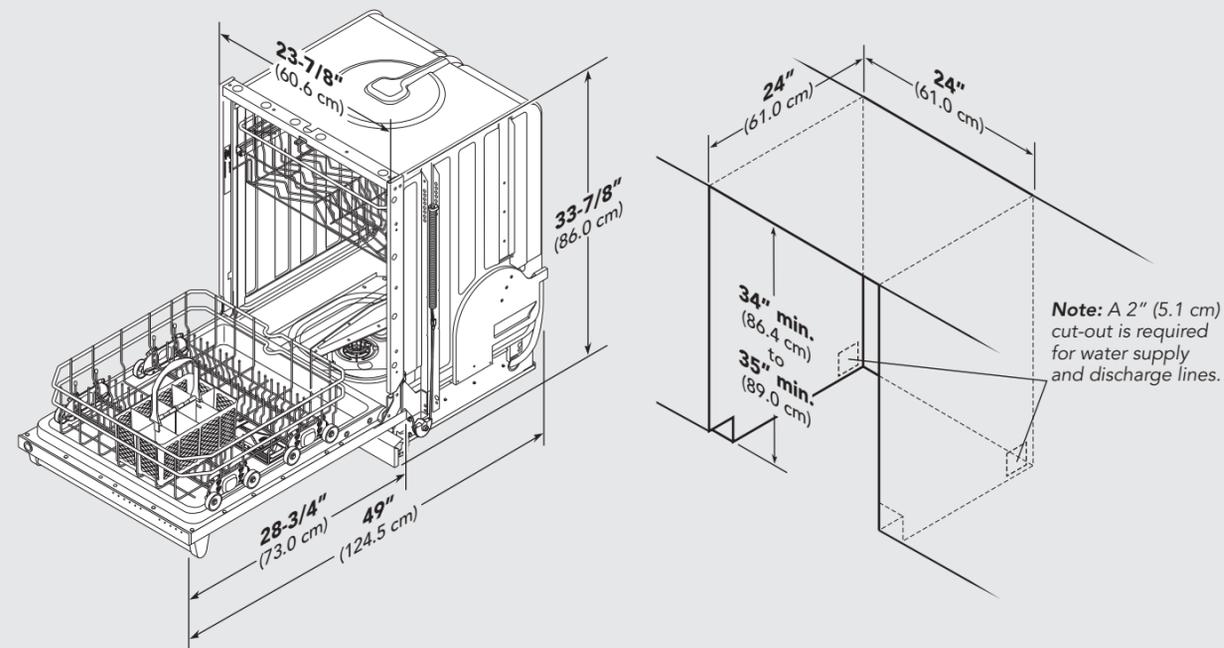
**A GFI shall be used if required by NFPA-70 (National Electric Code), federal/state/local laws, or local ordinances.**

- The required use of a GFI is normally related to the location of a receptacle with respect to any significant sources of water or moisture.
- Viking Range will NOT warranty any problems resulting from GFI outlets which are not installed properly or do not meet the requirements below.

**If the use of a GFI is required**, it should be:

- Of the receptacle type (breaker type or portable type NOT recommended)
- Used with permanent wiring only (temporary or portable wiring NOT recommended)
- On a dedicated circuit (no other receptacles, switches or loads in the circuit)
- Connected to a standard breaker of appropriate size (GFI breaker of the same size NOT recommended)
- Rated for Class A (5 mA +/- 1 mA trip current) as per UL 943 standard
- In good condition and free from any loose-fitting gaskets (if applicable in outdoor situations)
- Protected from moisture (water, steam, high humidity) as much as reasonably possible

## Dimensions & Cutout Dimensions



## Specifications

Built-In Dishwasher	
Description	324 SERIES
Overall width	23-7/8" (60.6 cm)
Overall height from floor	33-7/8" (86.0 cm) min. to 35" (89.0 cm) max.
Overall depth from rear	To edge of side – 23-5/8" (60.0 cm) – includes door panel To front of door handle – 26-3/8" (67.0 cm) With door open – 49" (124.5 cm)
Cutout width	24" (61.0 cm)
Cutout height	34" (86.4 cm) min. to 35" (89.0 cm) max.
Cutout depth	24" (61.0 cm)
Electrical requirements	15.0 amps, 120VAC/60 Hz; 3'9" (1.1 m) electrical cord 3 prong plug supplied with unit.
Water-heating element rating	1200 watts
Inlet water temperature	120°F (49°C) required
Inlet water pressure operating range	10 to 125 psi (0.69 to 8.62 bar)
Inlet water hose	5' (1.5 m) braided stainless steel water line with 3/8" (0.95 cm) compression fitting connected to dishwasher
Drain hose	7' (2.13 m) 1/2" (1.3 cm) ID "crimp-proof" flexible drain hose attached to dishwasher, connections provided for 5/8" (1.6 cm), 3/4" (1.9 cm) or 1" (2.5 cm), cut as required
Drain hose high loop required	Height from floor – 20" (51.0 cm) min.
Approximate shipping weight	152 lbs. (68.9 kg)

# General Information

- Read these instructions carefully and completely before installing the dishwasher. The installation should be carried out by a qualified installer, who is familiar with all local codes and ordinances for electrical and plumbing connections. If the dishwasher is being installed for the first time, most of the work has to be done before you move it into place. If you are replacing an old dishwasher, you must check the old connections.
- Electrical requirements are listed in the "Specifications" section.

## Site Preparation

**Note:** It is recommended that a thorough site inspection be conducted PRIOR to unpacking and moving this appliance.

- **After determining where the water supply line will connect to the dishwasher, provide a 2" (5.1 cm) access hole and run the line to the approximate fill valve location. Sealing access area once lines are in place is recommended.**
- Confirm available access to adequate power.

## Water Supply

### **⚠ WARNING**

Plumbing connections must comply with applicable sanitary, safety, and plumbing codes.

- Water pressure for the water supply should be a minimum of 10 to 125 psi. The dishwasher is supplied with a 5' (1.5 m) braided stainless steel water line with 3/8" (0.95 cm) compression fitting connected to dishwasher.
- After determining where the water supply line will connect to the dishwasher, provide a 2" (5.1 cm) access hole and run the water supply line to the approximate fill valve location.

- For service convenience, a shut-off valve (not supplied) should be installed in the supply line in a readily accessible location (such as beneath the sink).
- **It is recommended that the dishwasher be connected to a hot water supply.**
- It is important that the water supply line and the shut-off valve have a sufficient flow volume. Flush the supply line prior to connecting it to the intake line of the dishwasher.
- Make sure the connection is sealed and not leaking before completing the installation.

## Drain

- The access hole for the drain line should be 2" square (5.1 cm). Locate as low and as near to the back wall as possible.
- **DO NOT** use any fittings anywhere in the drain line that are less than 1/2" (1.3 cm) ID.
- If the drain line is going to be connected to a food waste disposer, be sure to remove the knockout or plug from the fitting before connecting drain line.
- Drain connection should be a minimum of 9" (22.9cm) from the floor. If connection is lower, siphoning during cycle can occur.

### **⚠ CAUTION**

The dishwasher has a factory installed backflow preventer. **DO NOT** add an additional check valve.

**Note:** The end of the drain hose is 1" (2.5 cm), but is adjustable to 3/4" (1.9 cm) or 5/8" (1.6 cm). If the drain connection is smaller than 1" (2.5 cm), the hose can be cut to fit the connection.

**Note:** Be sure to run the drain line through the hole to the sink compartment before moving the dishwasher into place.

# Electrical Connections

## Grounding Instructions

This appliance must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is installed and grounded in accordance with all local codes and ordinances.

### **⚠ WARNING**

Disconnect the electrical power supply and place a tag at the disconnect switch indicating that you are working on the circuit.

#### Grounding Instructions if Hardwired:

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 connected to the equipment – grounding terminal or lead on the appliance.

- For a cord connected undercounter dishwasher:
  1. The power supply receptacle for the appliance should be installed in a cabinet or on a wall adjacent to the under counter space in which the appliance is to be installed;
  2. There should be an opening through the partition between the compartments mentioned in Item (1), that is large enough for the attachment plug to pass through. The longest dimension of the opening shall not be more than 1-1/2" (38 mm).
  3. The edges of the opening mentioned in Item (2) should, if the partition is wood, be smooth and rounded or, if the partition is metal, be covered with the grommet provided for this purpose by the manufacturer; and

4. Care should be exercised, when the appliance is installed or removed to reduce the likelihood of damage to the power supply cord.

- The dishwasher comes with a 3'9" (1.1 m) electrical cord for 110-120 volts, 15/20 amp supply. This cord should be plugged into the 110-120 volt outlet located under the sink.
- If the cord is not long enough or if a hard wire installation is needed, follow the instructions in the "Hardwire" section.

**Note:** Access holes should be 2" square (5.1 cm) with no sharp edges.

- In a hardwire installation, use only copper supply conductors. The conductors should have a minimum temperature rating of 194° F (90° C).

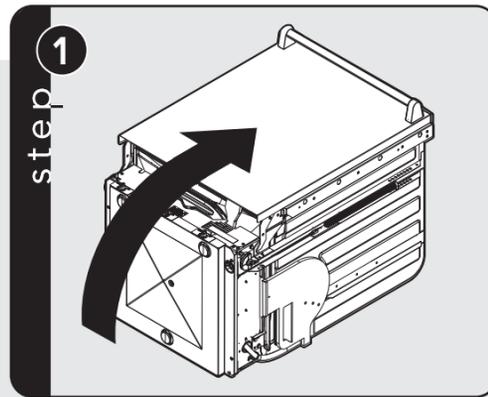
### **⚠ WARNING**

Be sure electrical power is turned off at circuit breaker or fuse box before servicing or installing unit. **DO NOT** use an extension cord for this appliance.

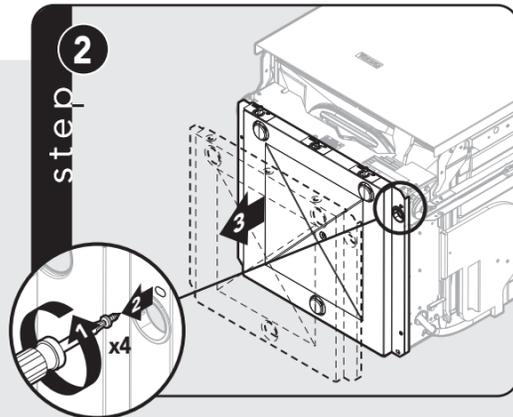
### **⚠ WARNING**

Improper connection of the equipment – grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the appliance is properly grounded. **DO NOT** modify the plug provided with the appliance; if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

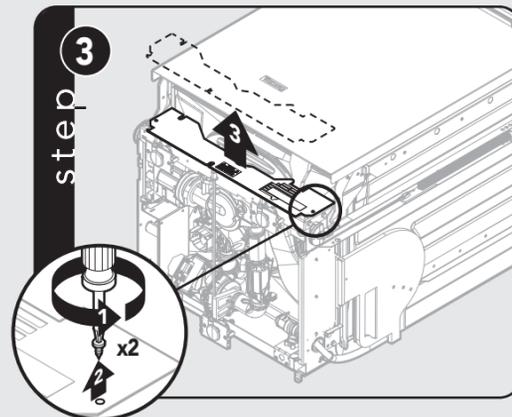
## Hardwire Conduit Option



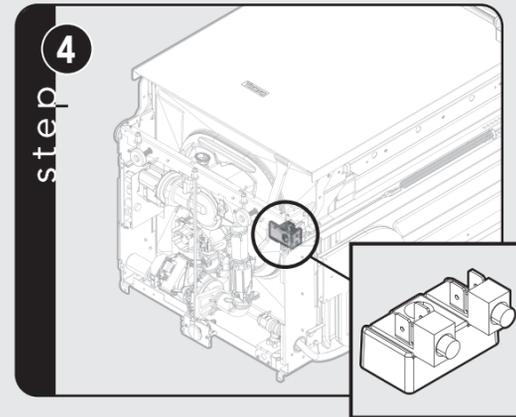
Remove any loose items in the dishwasher and carefully lay the dishwasher on its back. **Note:** Be careful not to pinch hoses or power cord beneath dishwasher.



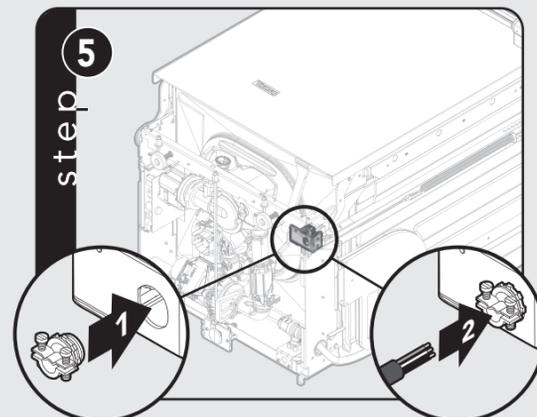
Remove bottom pan. **Note:** Rapid removal of the bottom pan will cause damage to the moisture sensor. For installation and servicing, slowly pull the bottom pan from the unit and disconnect the wire from the moisture sensor, which is located in the center of the pan.



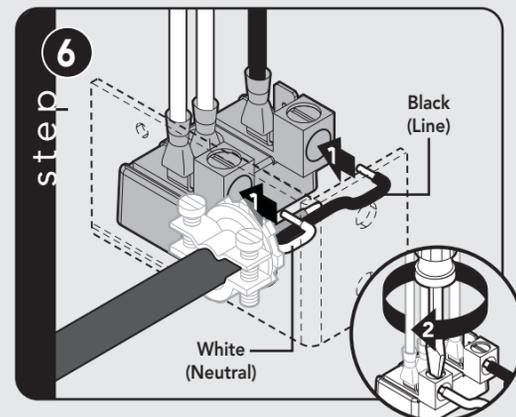
Remove front plate.



Remove factory installed power cable from terminal block.

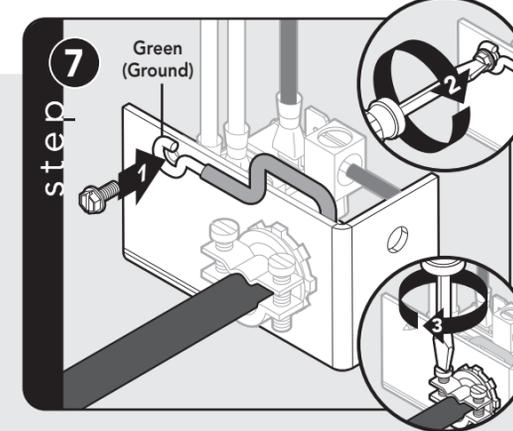


Attach UL approved 3/4" strain relief (not included) to bottom of terminal box. Run wires through strain relief.

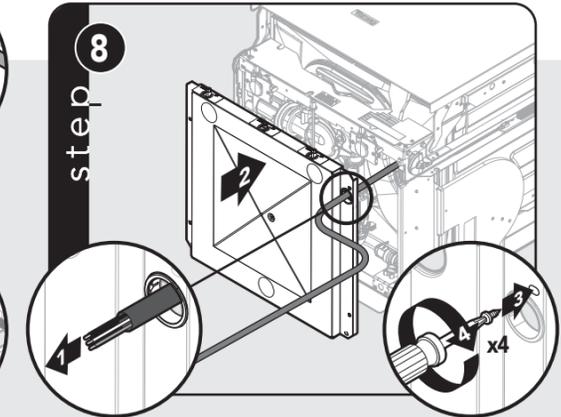


Connect wires to terminal block.

## Hardwire Conduit Option (cont.)

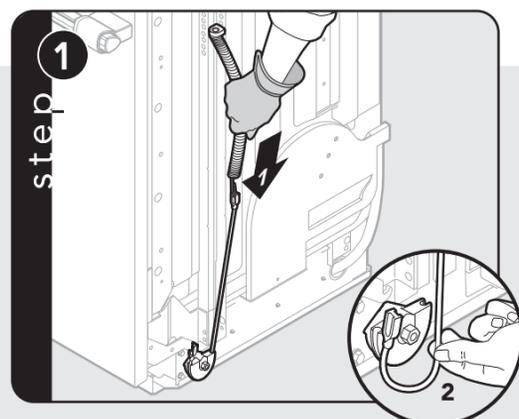


Connect ground wire. Tighten screws on strain relief. **Note:** Reinstall front plate.

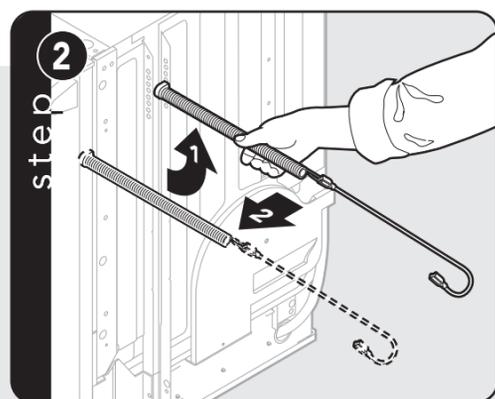


Run wire through grommet on bottom pan. Replace bottom pan.

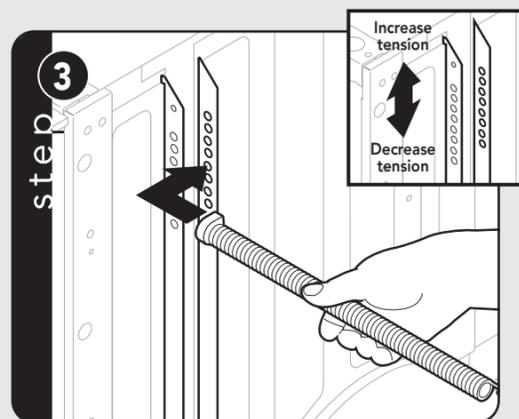
## Counter Balance Spring Adjustment (if necessary)



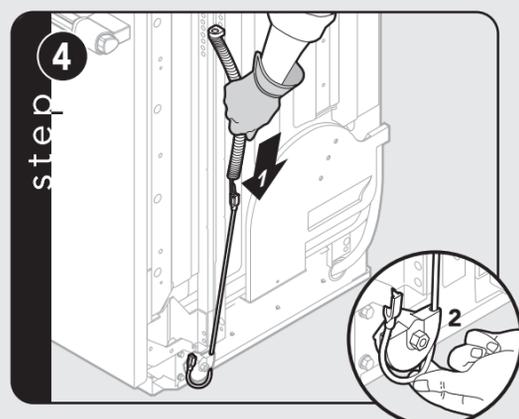
Disconnect cable from hook.



Remove spring from dishwasher.



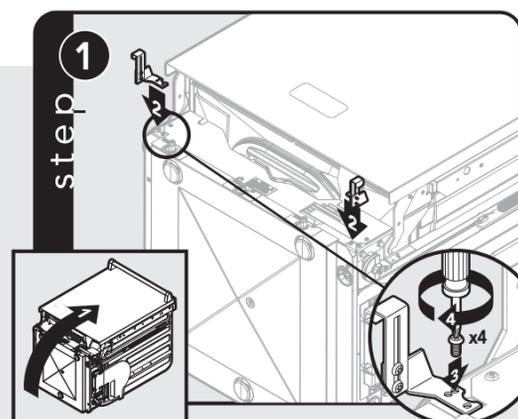
Set counter balance spring connector in appropriate location.



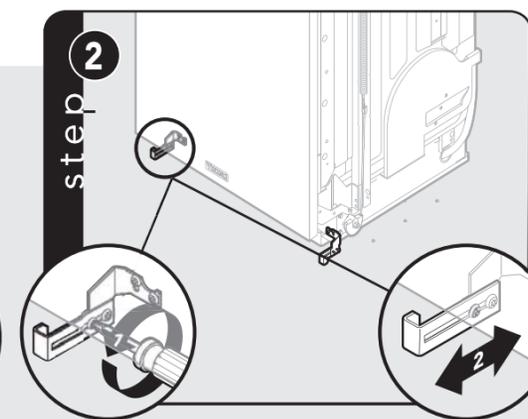
Reconnect cable to hook.

**Note:** For custom panel installation, the door may require adjustment to the preload of the counterbalance springs. Follow these steps to adjust the tension.

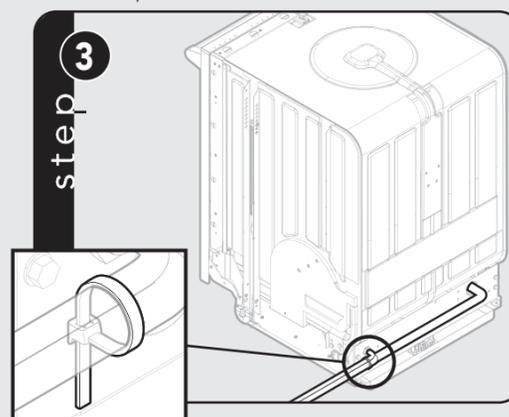
## Installation



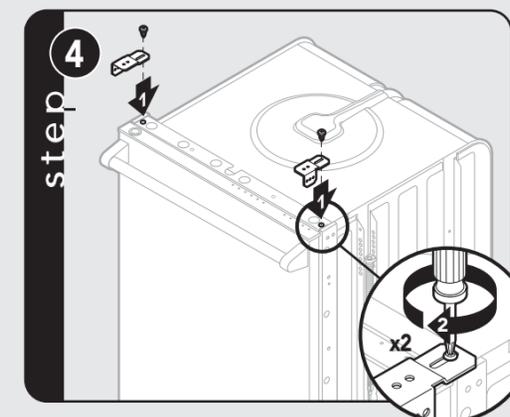
Carefully lay dishwasher on its back and attach the kick plate brackets. Screws for the brackets will already be in the base. **Note:** Be careful not to pinch hoses or power cord beneath dishwasher.



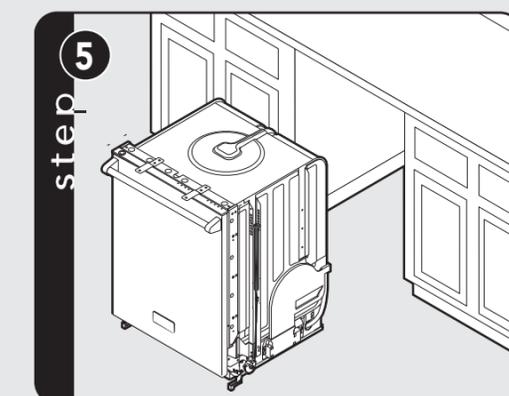
To adjust the depth of the kick plate, loosen screws on the bracket and position in the required depth. Tighten screws and repeat for other side.



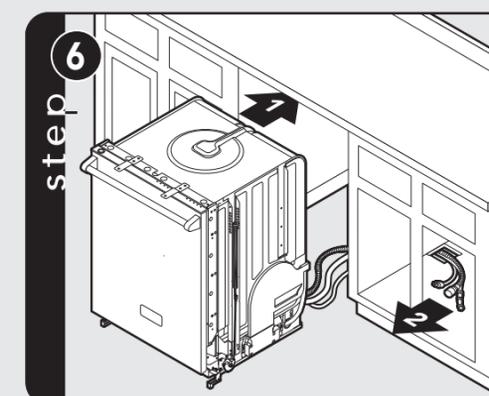
Using tie strap attached to dishwasher, band water line, drain line, and power cord together.



Attach brackets with two screws (1 per bracket).

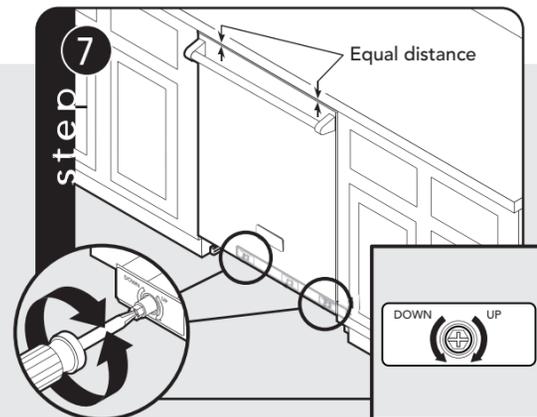


Position unit in front of cutout.

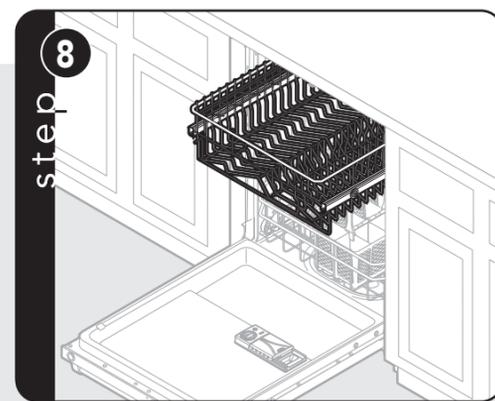


Slide unit into opening; be sure to feed water, electrical and discharge lines into adjacent cabinet.

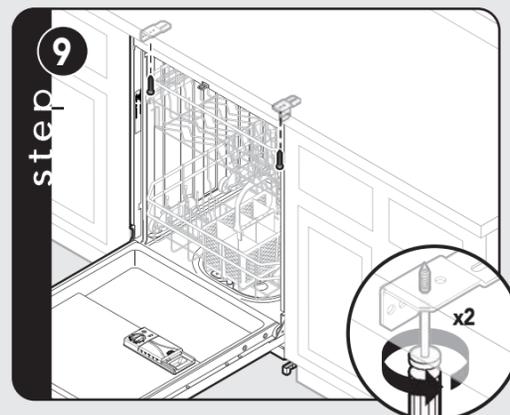
## Leveling



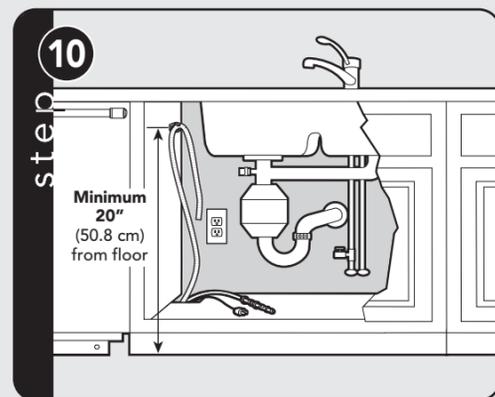
Place a level on handle, then adjust to appropriate height. Left and right adjust side to side and center adjusts front to back.



To check level, front to back, pull the top rack half-way out of unit. The rack should remain stationary and not move in or out.  
**Note:** Leveling is important for optimal performance.

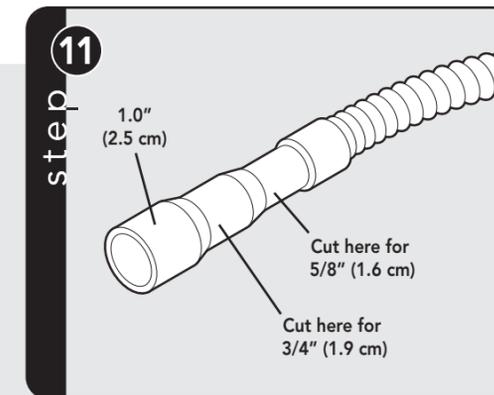


Attach screws through bracket into cabinets.

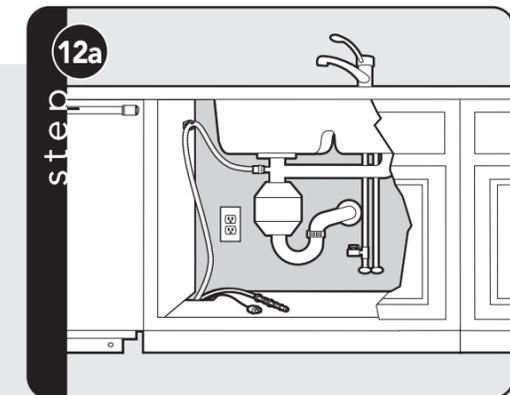


Install High Loop Clip, which is provided, a minimum of 20" (50.8 cm) from the floor. Refer to the Drain section of "General Information" for proper installation requirements.

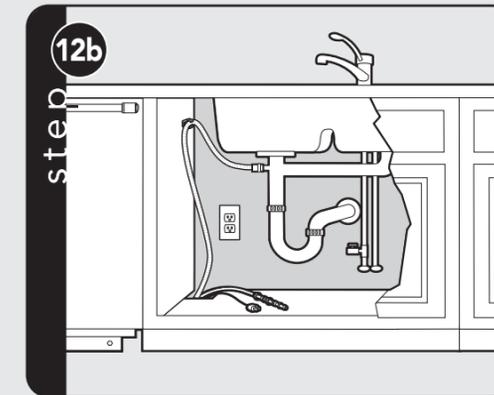
## Final Installation



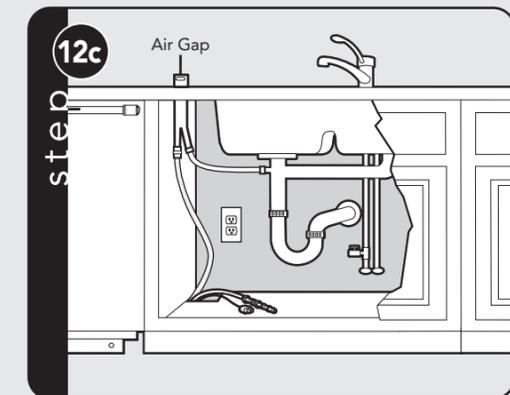
Identify discharge connection size; cut line to correct size and connect. Clamp if necessary.



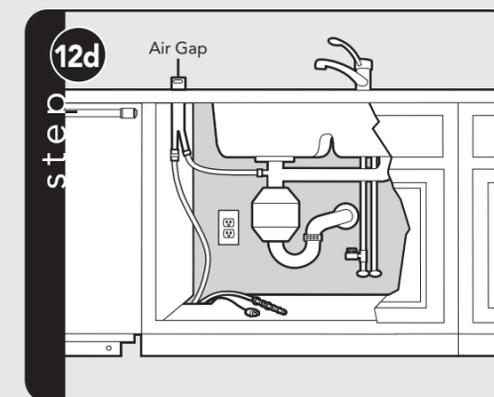
(Discharge with food waste disposer)  
**Note:** Be sure to remove the knockout or plug from the fitting of the disposer before connecting drain line.



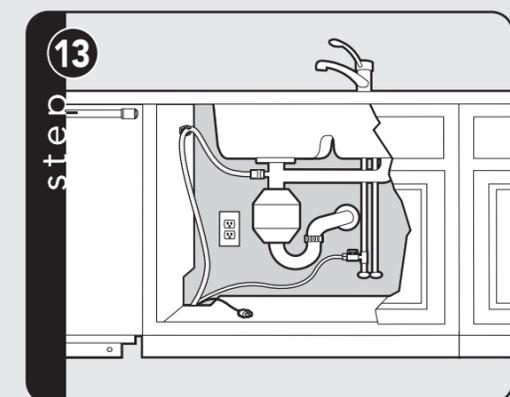
(Standard discharge)



(Discharge with air gap)

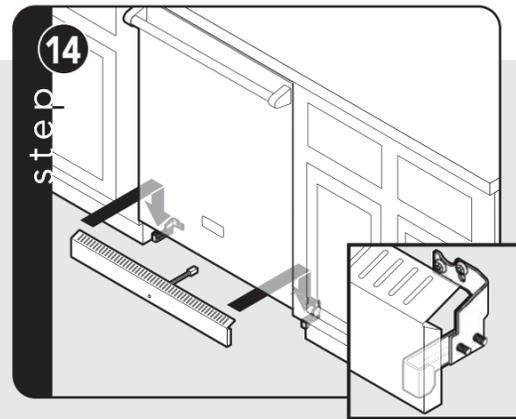


(Discharge with food waste disposer and air gap)



Connect water line.

## Final Installation (cont.)



Install kick plate.

## Performance Checklist

### Testing for Leaks

A qualified installer should carry out the following checks:

- Remove packaging and parts.
- Turn on the water supply and check for leaks.
- Turn the power on at breaker/fuse box and test the dishwasher operation by running a rinse and hold cycle. (This should take about 12 minutes.)
- Turn off the electrical power and check for leaks under the dishwasher.
- Make sure that no kinks have developed in the drain lines.

### Final Preparation

- Some stainless steel parts may have a plastic protective wrap which must be peeled off.

### Unit Reset

- If the unit should need to be reset for any reason, push and hold the "START" button for 4 seconds.



# Service & Registration

Only authorized replacement parts may be used in performing service on the appliance. Do not repair or replace any part of the appliance unless specifically recommended in the manual. All servicing should be referred to a qualified technician.

Contact Viking Range, 1-888-845-4641, for the nearest service parts distributor in your area or write to:

**VIKING RANGE, LLC  
PREFERRED SERVICE  
111 Front Street  
Greenwood, Mississippi 38930 USA**

The serial number and model number for your dishwasher are located on the identification plate mounted on the bottom left side of the dishwasher door opening.

Record the following information indicated below. You will need it if service is ever required.

Model number \_\_\_\_\_

Serial number \_\_\_\_\_

Date of purchase \_\_\_\_\_

Date installed \_\_\_\_\_

Dealer's name \_\_\_\_\_

Address \_\_\_\_\_

**These installation instructions should remain with the dishwasher for future reference.**