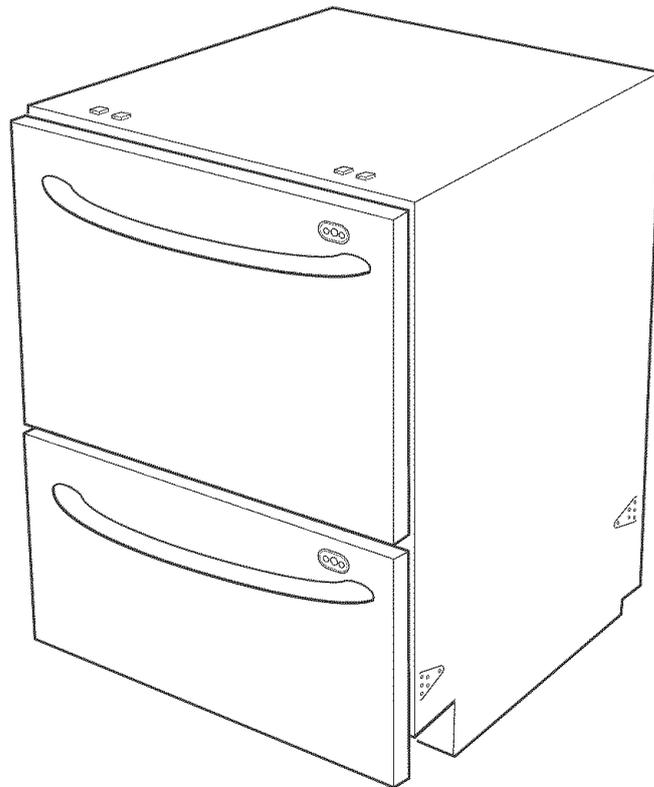


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# Installation Instructions

## Drawer Dishwasher



**Table of Contents**

**Drawer Dishwasher Safety** ..... 2  
**Installation Requirements** ..... 3  
    Tools and Parts ..... 3  
    Location Requirements ..... 3  
    Water Supply Requirements ..... 4  
    Electrical Requirements ..... 4

**Installation Instructions** ..... 5  
    Prepare Cabinet Opening ..... 5  
    Electrical Connection ..... 5  
    If Installing Flexible Trim Pieces ..... 8  
    Install Dishwasher ..... 8  
    Install Drain Hose ..... 10  
    Connect to Water Supply ..... 11  
    Install Drawer Front Panels and Toe Panel ..... 11  
    Complete Installation ..... 15

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## DRAWER DISHWASHER SAFETY

**Your safety and the safety of others are very important.**

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING."

These words mean:

**! DANGER**

You can be killed or seriously injured if you don't immediately follow instructions.

**! WARNING**

You can be killed or seriously injured if you don't follow instructions.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

# INSTALLATION REQUIREMENTS

## Tools and Parts

Gather the required tools and parts before starting installation. Read and follow the instructions provided with any tools listed here.

- Tools needed:**
- utility knife
  - needle-nose pliers
  - tape measure
  - flat-bladed screwdriver
  - #2 Phillips screwdriver
  - side cutting pliers
  - pencil
  - sandpaper
  - level
  - wood cutting board
  - adjustable wrench that opens to 1-1/8" (29 mm)
  - 7 mm socket wrench
  - 5 mm socket wrench
  - 5 mm open end or box end wrench
  - electric or hand drill
  - 1-1/2" hole saw
  - valve (sized to fit hot water supply line) with 3/8" male compression fitting
  - protective floor covering

## Parts supplied:

Located in bottom drawer:

- 2 flexible trim pieces (for sides)
- 1 flexible trim piece (for top)
- edge protection
- hose clamp, hose type
- washer
- 2 installation brackets (top)
- drain hose support
- drain hose connector
- 2 hose clamps, wire type
- 24 #8 Phillips head wood screws
- toe panel
- custom toe panel mounting bracket
- moisture protection tape

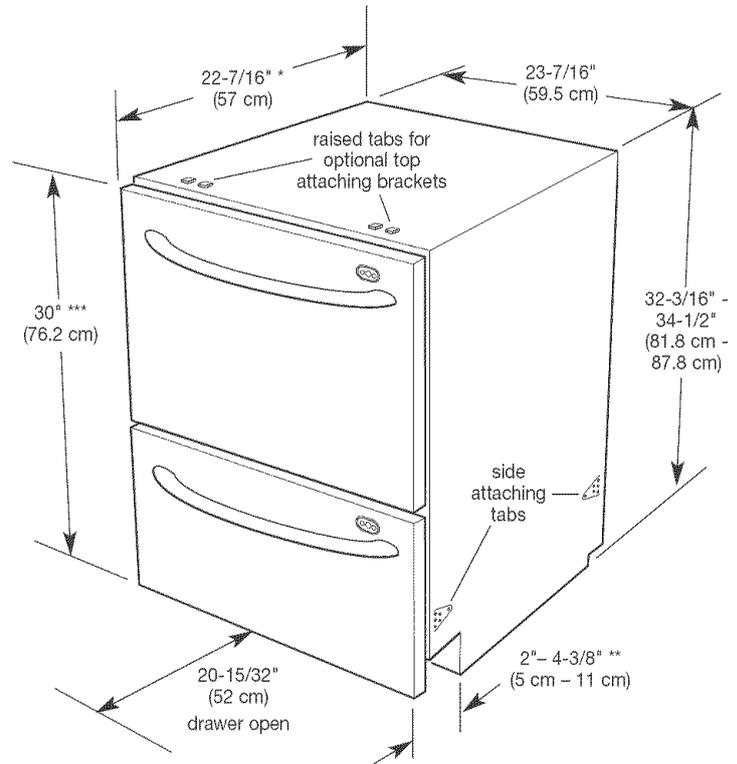
## Location Requirements

**IMPORTANT:** Observe all governing codes and ordinances. Failure to meet codes and ordinances could lead to fire or electrical shock.

Proper installation is your responsibility:

- Contact a qualified installer to ensure that the dishwasher is installed to meet all electrical and plumbing national and local codes and ordinances.
- Install the dishwasher as specified in these instructions.
- Have everything you need to properly install dishwasher.
- Protect dishwasher and water lines leading to dishwasher against freezing. Damage from freezing is not covered by the warranty.
- This dishwasher is manufactured for indoor use only.
- Install and level dishwasher on a floor that will hold the weight, and in an area suitable for its size and use.

## Product dimensions



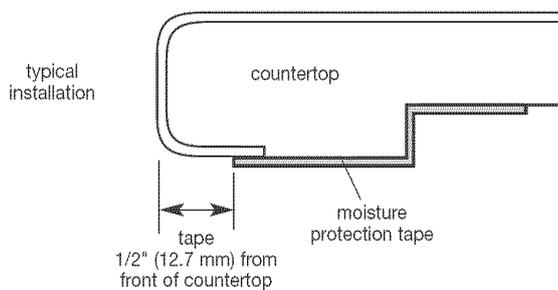
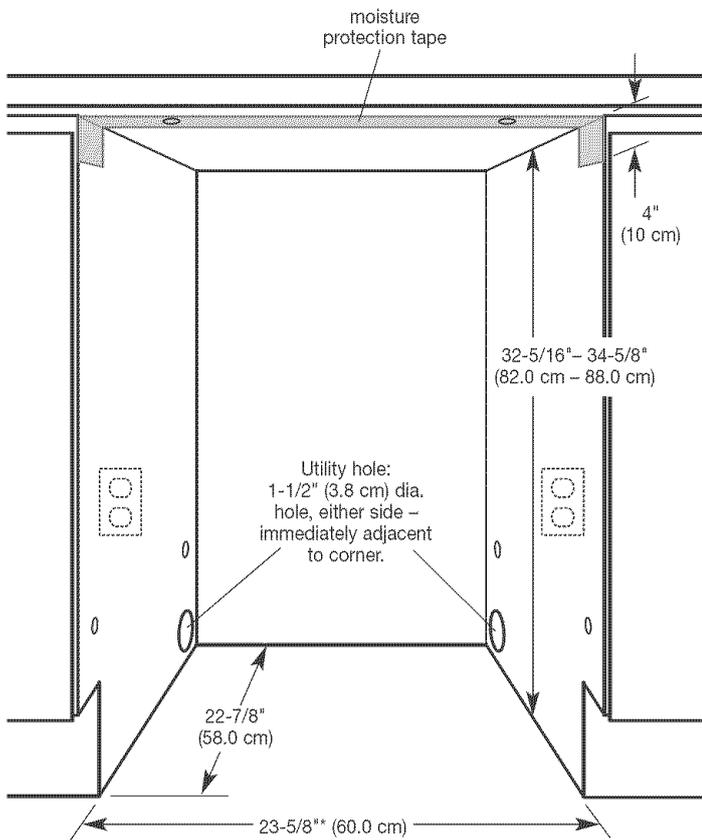
\* If custom wood panels are to be used, the product depth is specified with an 11/16" (18 mm) door panel thickness.

\*\* Toe panel depth: Factory supplied, 2-4-3/8" (5 - 11 cm); Custom wood, 5" (12.7 cm) less the toe panel thickness for integrated. Minimum panel thickness using the supplied screws is 3/8" (9 mm).

\*\*\* Door front height: Factory supplied - 30" (76.2 cm); Custom wood - 28-1/4" (71.8 cm) minimum.

**NOTE:** Product shown with front panels for dimension purposes.

## Cabinet dimensions/requirements



The 3 prong grounded outlet must be installed within 6" (15.2 cm) to 18" (45.7 cm) of the cabinet side wall.

**NOTE:** The power outlet must be accessible after installation.

It is recommended that wood cabinetry surrounding the dishwasher be sealed with an oil-based paint or moisture-proof polyurethane to prevent possible damage from humidity.

The utility hole must be located as shown. If the hole is not located as shown, the hoses will prevent the dishwasher from being pushed back all the way into the cavity. Make sure the edges of the utility hole are smooth or covered. If the utility hole is through a metal cabinet, the hole must be protected with the edge protector provided.

**\*IMPORTANT:** Custom wood door panels, if used, may be wider than the dishwasher to match surrounding cabinets. The 23-5/8" (60.0 cm) must be increased so that there is a 1/4" (6.4 mm) clearance between the cabinet side and panel edge.

For corner installation, there must be a 1/2" (12.7 mm) space between the adjacent cabinet doors (i.e. door knobs) and open dishwasher drawer.

## Water Supply Requirements

For dishwasher:

- Hot water line with 4.3-145 psi (30-1000 kPa) water pressure.
- 120°F (48.8°C) water at dishwasher.
- An easily accessible valve with 3/8" compression fitting must be installed in the hot water supply line.

## Electrical Requirements

### ⚠ WARNING



#### Electrical Shock Hazard

Plug into a grounded 3 prong outlet.

Do not remove ground prong.

Do not use an adapter.

Do not use an extension cord.

Failure to follow these instructions can result in death, fire, or electrical shock.

### GROUNDING INSTRUCTIONS

#### • For a grounded, cord-connected dishwasher:

The dishwasher 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. The dishwasher is equipped with a cord having an equipment-ground 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:** Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are in doubt whether the dishwasher is properly grounded. Do not modify the plug provided with the dishwasher; if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

#### • For a permanently connected dishwasher:

The dishwasher 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 dishwasher.

### SAVE THESE INSTRUCTIONS

A 120-volt, 60 Hz, AC-only, 15 amp fused electrical supply is required. (Circuit breaker or time-delay fuse is recommended.) It is recommended that a separate circuit serving only this appliance be provided.

## Garbage Disposer:

If you plan to install a garbage disposer, an additional separate 120-volt, 60 Hz, AC-only, 15 or 20 amp fused electrical supply is required.

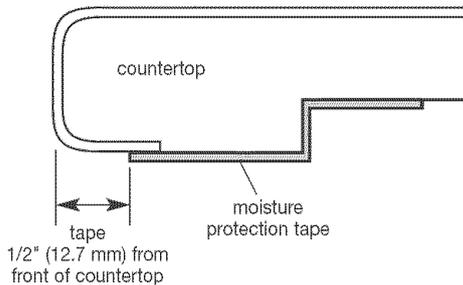
## Recommended ground method

This appliance must be grounded. This appliance is equipped with a power supply cord having 3 prong ground plug. To minimize possible shock hazard, the cord must be plugged into a mating prong ground-type outlet, grounded in accordance with local codes and ordinances.

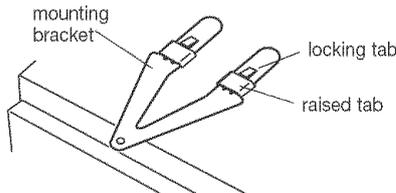
# INSTALLATION INSTRUCTIONS

## Prepare Cabinet Opening

1. Prepare the cabinet opening by applying self-adhesive moisture protection tape to the dry dust-free underside of the countertop.



2. Turn off water supply.
3. Decide which attaching tabs to use to secure the dishwasher. The four side attaching tabs are recommended.
4. If the countertop material permits and the optional top attaching brackets will be used, install them now.  
Slide the brackets under the raised tabs. Using the flat side of the side cutting pliers, lightly tap the brackets into place. Make sure the locking tabs on the brackets are completely passed through the raised tabs on the dishwasher.

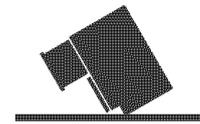


5. If using the factory-installed power cable and plug, go to "Electrical connection" section, Option: 1: Power Supply Cord Method.  
If direct wiring the dishwasher, go to "Electrical connection" section, Option: 2: Direct Wiring Method.

## Electrical Connection

### Option 1: Power Supply Cord Method

#### ⚠ WARNING



#### Tip Over Hazard

Do not use dishwasher drawer until inside cabinet opening.

Doing so can result in serious injury or cuts.

#### ⚠ WARNING

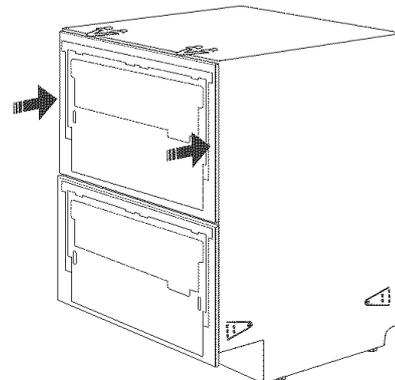
#### Excessive Weight Hazard

Use two or more people to move and install dishwasher.

Failure to do so can result in back or other injury.

1. Place cardboard or other protective covering on the floor in front of cabinet opening. Place the dishwasher on covering.
2. Begin to route the hoses and power supply cord through the utility hole in the cabinet.
3. Push dishwasher partway into the opening.

**IMPORTANT:** Push against the outside edges of drawers as shown. Do not push against the center of the drawers.



- As the dishwasher is being pushed into the opening, slowly pull the inlet hose, drain hoses and power supply cord through the utility hole.
  - Remove the strap from upper drawer.
- Go to "If Installing Flexible Trim Pieces" section.

## Option 2: Direct Wiring Method

### ⚠ WARNING



#### Electrical Shock Hazard

Disconnect electrical power at the fuse box or circuit breaker box before installing dishwasher.

Failure to do so can result in death or electrical shock.

### ⚠ WARNING

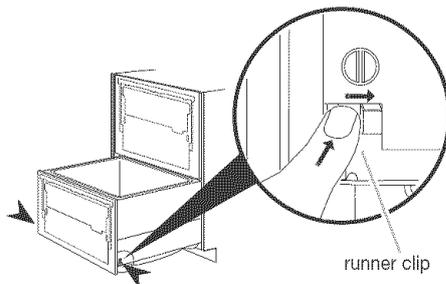
#### Excessive Weight Hazard

Use two or more people to move and install dishwasher.

Failure to do so can result in back or other injury.

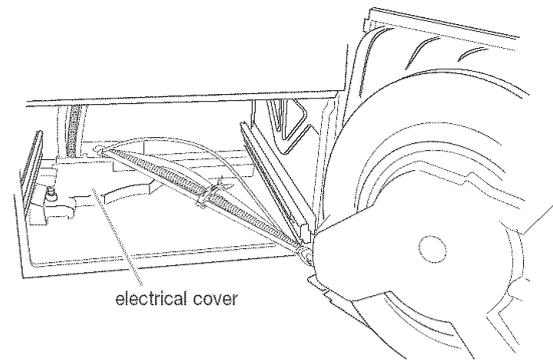
- Place cardboard or other protective covering on the floor in front of cabinet opening. Place the dishwasher on covering.
- Disconnect power.
- Open the bottom drawer.
- Press in the right-hand runner clip and push it back about 6" (15.2 cm). Repeat with the left-hand runner clip.

**NOTE:** When removing the drawer there is limited range of movement due to the attached water hoses.

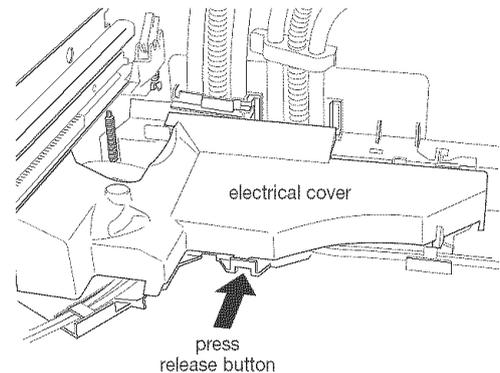


- Lift the right edge of the drawer off its runner. Slide that runner back into the dishwasher. Lift the drawer completely off the left-hand runner.

- Rotate drawer to the right onto its side and place on the protective cover.

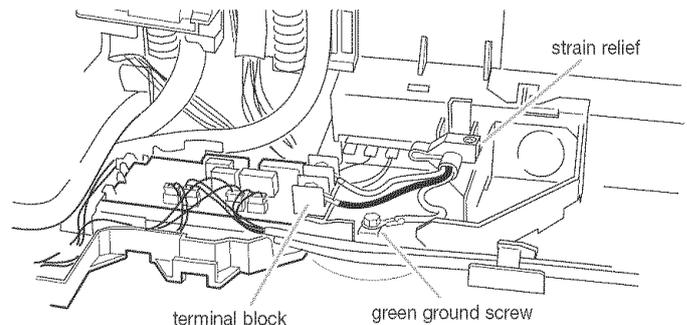


- Slide the left-hand runner back into the dishwasher.
- The electrical cover is located in the back left corner. Use a flat blade screwdriver to press the release button. Slide the cover to the right and then pull up.



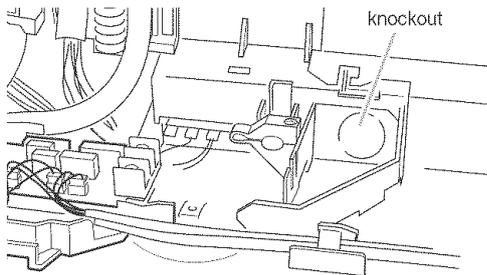
### Remove factory-installed power cord.

- Disconnect the black and white wires of the power cord from the terminal block.

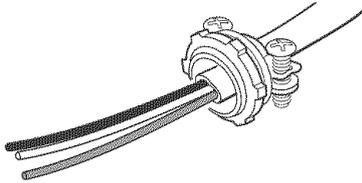


- Use a 7 mm socket wrench to remove the green ground screw. Remove the green ground wire.
- Use a Phillips screwdriver to remove the strain relief screw. Open the strain relief.
- Pull the power supply cord off the dishwasher through the back of the dishwasher.
- Close the strain relief and replace screw so it does not interfere with the electrical cover.

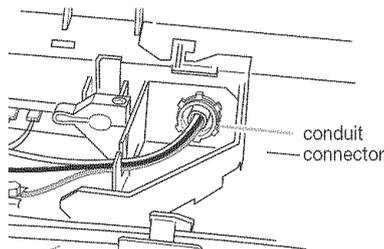
6. Remove the house wiring knockout.



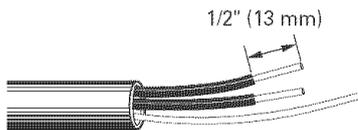
7. Run the house wiring through the conduit connector (not supplied) and into the dishwasher through the knockout opening.



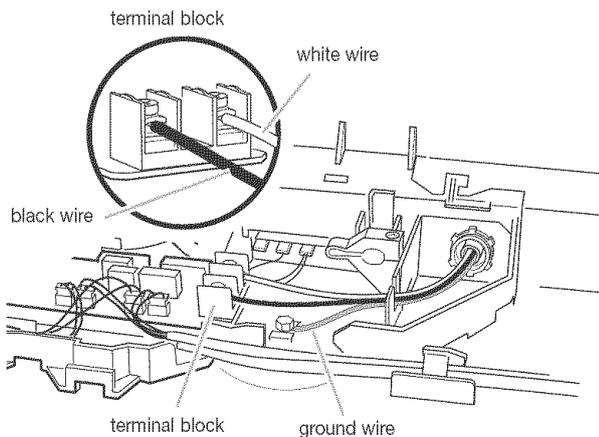
8. Secure the conduit connector in the knockout opening.



9. From the house wiring, strip 1/2" (13 mm) of insulation off of each wire.



10. Insert the black supply wire and the white neutral wire into the appropriate wire clamp on the terminal block. Securely tighten the clamps.



## ⚠ WARNING

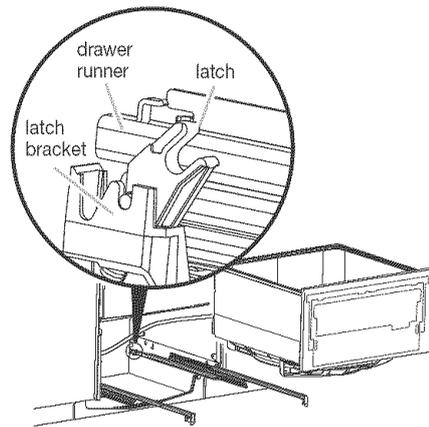


### Electrical Shock Hazard

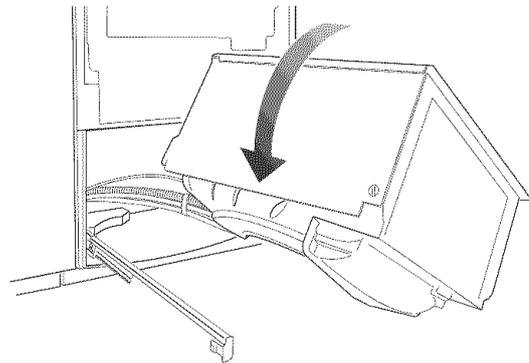
Connect ground wire to green ground screw.

Failure to do so can result in death or electrical shock.

11. Place the ground wire under the green ground screw. Use a 7 mm socket wrench to securely tighten the green ground screw.
12. Tighten the conduit connector. Replace electrical cover.
13. Pull the bottom drawer runners all the way out. Make sure the latches on the back of each drawer runner are facing forward.

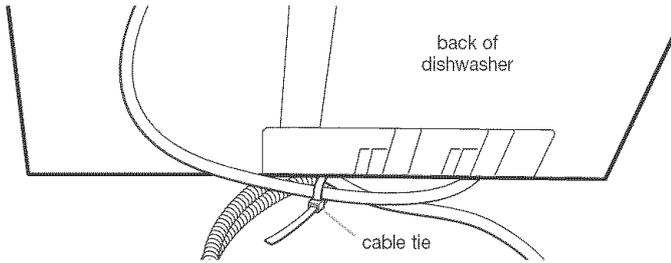


14. If the bottom drawer was rotated, rotate the drawer to unwind the hoses and then put the drawer on the runners, making sure the hoses are looping upward.



15. Make sure both runner clips have snapped into place. If they have not, pull the runner clips forward until they do.
16. Close the bottom drawer.

17. Use the side cutting pliers to cut the cable tie securing the hoses and power supply cord to the back of the dishwasher.



18. Completely remove the power supply cord and save it, in case a power cord installation is needed in the future.

**WARNING**

**Tip Over Hazard**

Do not use dishwasher drawer until inside cabinet opening.

Doing so can result in serious injury or cuts.

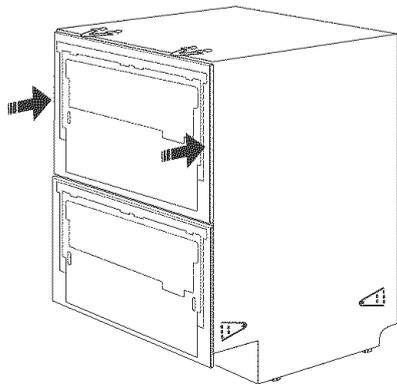
**WARNING**

**Excessive Weight Hazard**

Use two or more people to move and install dishwasher.

Failure to do so can result in back or other injury.

19. Place cardboard or other protective covering on the floor in front of cabinet opening. Place the dishwasher on covering.
20. Begin to route the hoses through the utility hole in the cabinet.
- IMPORTANT:** Push against the outside edges of drawers as shown. Do not push against the center of the drawers.
21. Push dishwasher partway into the opening.



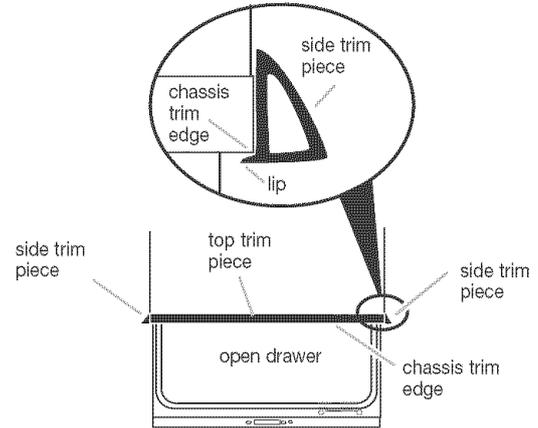
22. As the dishwasher is being pushed into the opening, slowly pull the inlet hose and drain hoses through the utility hole. Let the house wiring gather behind the dishwasher.

23. Remove the strap from upper drawer.

### If Installing Flexible Trim Pieces

If the cabinet opening is 24" wide x 34-1/2" high (61.0 cm x 87.6 cm), flexible trim pieces can be attached along the top and sides of the dishwasher. Top and side trim pieces are different lengths.

1. Open the drawers to expose the chassis trim.
2. Center the flexible trim pieces.

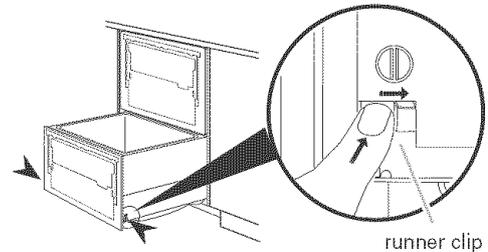


3. If using the optional top attaching brackets, place the trim pieces under the attaching brackets.
4. Remove trim pieces backing paper to expose the adhesive.
5. Place the trim pieces on the trim and press.
6. Finish pushing dishwasher into opening.

### Install Dishwasher

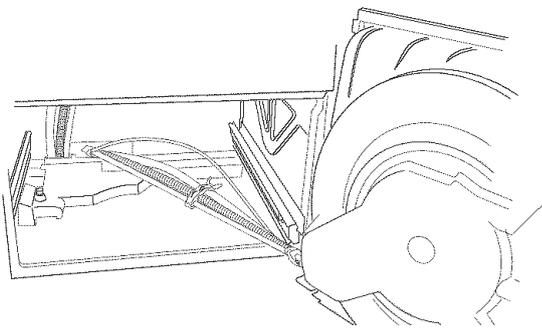
1. Leave protective cover on floor.
2. Open the bottom drawer.
3. Press in the right-hand runner clip and push it back about 6" (15.2 cm). Repeat with the left-hand runner clip.

**NOTE:** When removing the drawer there is limited range of movement due to the attached water hoses.

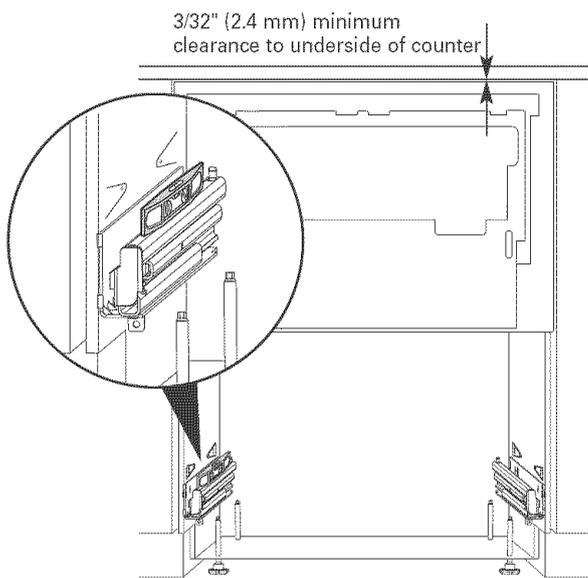


4. Lift the right edge of the drawer off its runner. Slide that runner back into the dishwasher.
5. Lift the drawer completely off the left-hand runner.

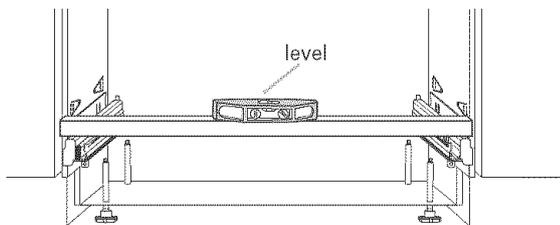
- Rotate the drawer to the right onto its side and place on the protective cover.



- Slide the left-hand runner back into the dishwasher.
- Reach inside the dishwasher to adjust the feet using a 5 mm open end, box end, or socket (if space permits) wrench. Adjust for cabinet height and level. Place a level on the drawer runners. Level the dishwasher to within  $3/32$ " (2.4 mm) from front to back.



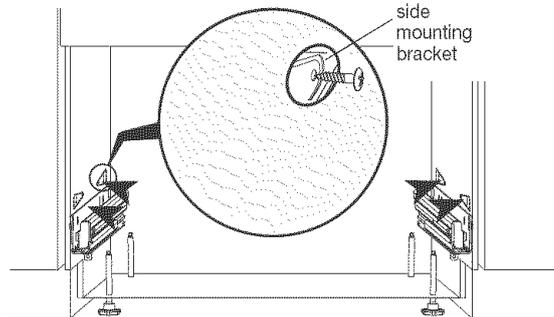
- Place a level across the drawer runners. Level the dishwasher to within  $3/32$ " (2.4 mm) from side to side.



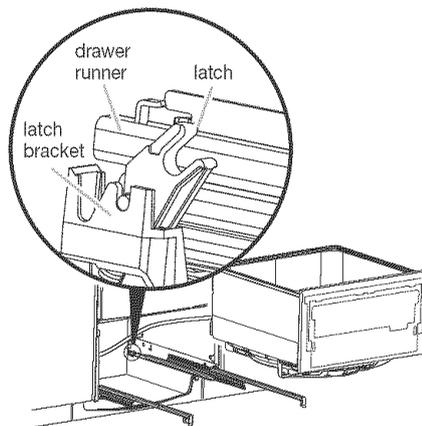
## Choose attachment option

### Option 1: Side attachment

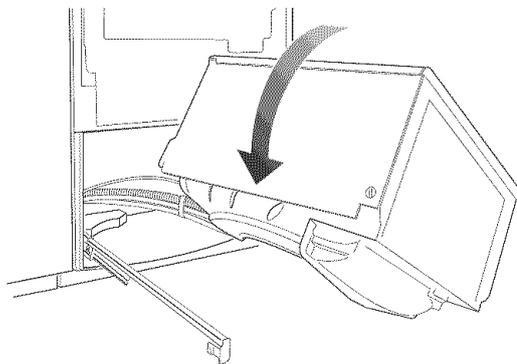
- The dishwasher side attaching tabs are accessed through holes in the sound insulation. **IMPORTANT:** For best installation, use all four attaching tabs.
- Secure the attaching tabs to the cabinet using #8 Phillips head screws.



- Pull the bottom drawer runners all the way out. Make sure the latches on the back of each drawer runner are facing forward.



- If the bottom drawer was rotated, rotate the drawer to unwind the hoses and then put the drawer on the runners, making sure the hoses are looping upward.

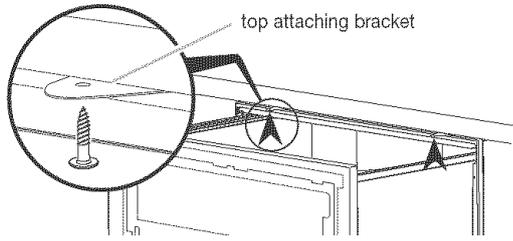


- Make sure both runner clips have snapped into place. If they have not, pull the runner clips forward until they do.
- Close the bottom drawer.

### Option 2: Top attachment

1. If the top attaching brackets are used, open the top drawer slightly.
2. Screw the top attaching brackets to the underside of the counter with two #8 Phillips head screws.

**IMPORTANT:** The top attaching brackets can accommodate a maximum 3/4" (19 mm) vertical gap.



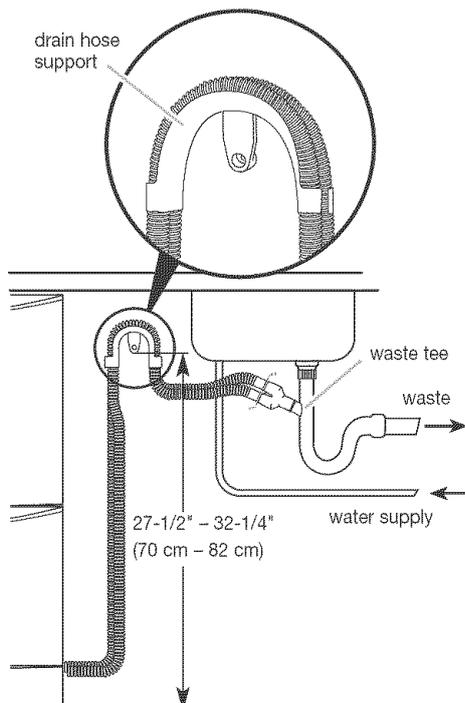
3. Close the top drawer.

## Install the Drain Hose

### Option 1: Sink drain waste tee connection

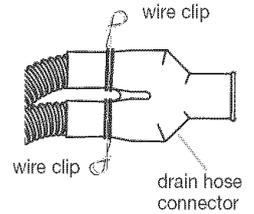
1. Route the drain hoses as shown and press the hoses into the drain hose support.
2. Decide if the drain hoses need to be trimmed. If they do, trim them.
3. Slip a wire clip over each drain hose. Push the hoses into the drain hose connector firmly, 5 clicks.
4. Position the wire clips between the two positioning ribs on the drain hose connector.
5. Attach the drain hose connector to the waste tee using the supplied hose clamp.
6. Attach the drain hose support bracket to the cabinet with a #8 Phillips head screw at the height shown below.

**NOTE:** The drain hose connector must not support the weight of excess hose length. Keep hoses as fully extended as possible.

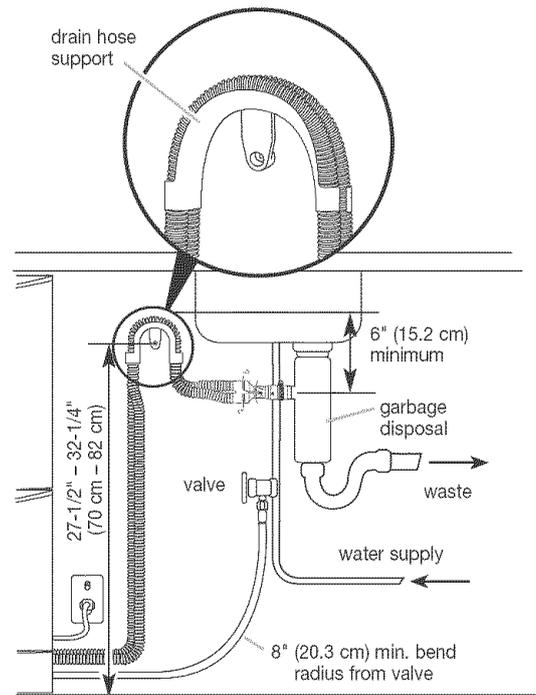


### Option 2: Garbage disposal connection

1. Route the drain hoses as shown and press the hoses into the drain hose support.
2. Decide if the drain hoses need to be trimmed. If they do, trim them.
3. Slip a wire clip over each drain hose. Push the hoses into the drain hose connector firmly, 5 clicks.
4. Position the wire clips between the two positioning ribs on the drain hose connector.
5. Attach the drain hose connector to the garbage disposal using the supplied hose clamp.
6. Attach the drain hose support bracket to the cabinet with a #8 Phillips head screw at the height shown below.

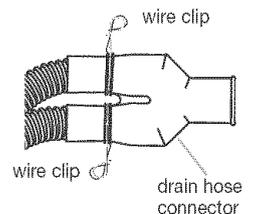


**NOTE:** The drain hose connector must not support the weight of excess hose length. Keep hoses as fully extended as possible.

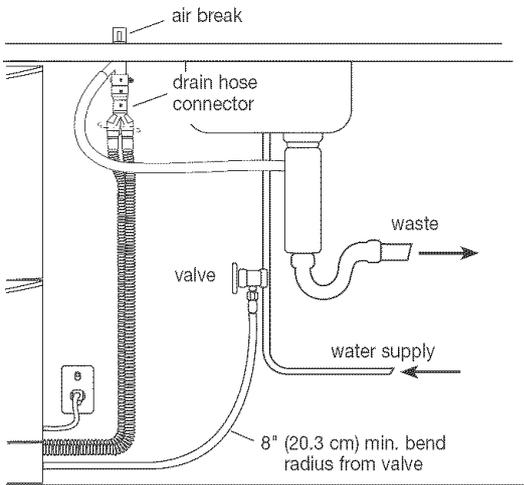


### Option 3: Air break connection

1. Route the drain hoses as shown.
2. Decide if the drain hoses need to be trimmed. If they do, trim them.
3. Slip a wire clip over each drain hose. Push the hoses into the drain hose connector firmly, 5 clicks.
4. Position the wire clips between the two positioning ribs on the drain hose connector.

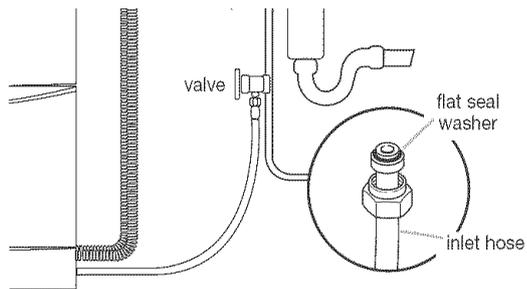


- Attach the drain hose connector to the air break using the supplied hose clamp.



### Connect to Water Supply

- Install the flat seal washer on the end of the inlet hose. Connect the inlet hose to the water supply valve. Tighten securely.
- Turn the water valve on and check for any leaks.

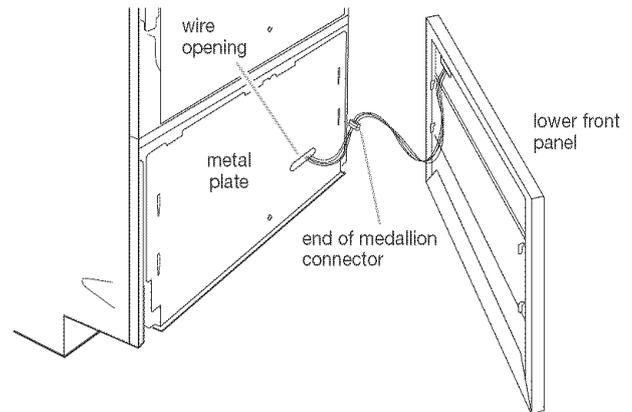


- Open top drawer. Remove the packing tape from the front and rear of dish rack.
- Close drawer.
- Open bottom drawer. Remove the packing tape from the front and rear of dish rack.
- Close drawer.

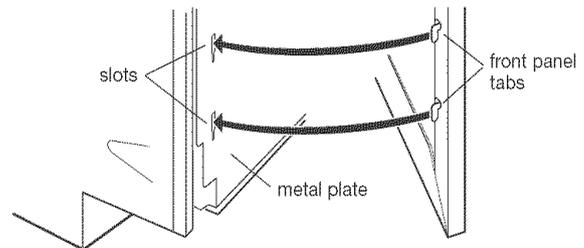
## Install Drawer Front Panels and Toe Panel

### Option 1: Install standard front panels

- Remove front panels from box and discard all shipping material.
- On the shorter front panel (lower drawer), remove the tape securing the connector and wires. Discard tape.
- Connect the end of the medallion connector to the connector from the lower drawer.



- Gently feed the wires and connectors into the metal plate wire opening.
- Line up front panel tabs to slots in metal plate. Do not pull the connector from wire opening.



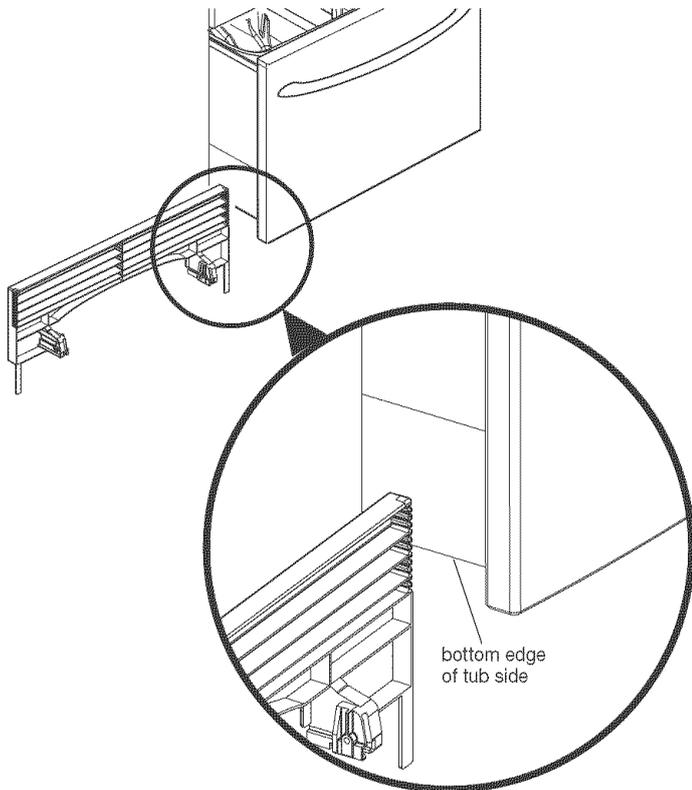
- Push the front panel down to lock in place.
- Repeat steps 2–6 for the top drawer panel.
- When installed properly, top panel should be even with top of dishwasher with a 3/8" (9.5 mm) gap between the top and bottom panel.

## Option 1: Install standard toe panel

**NOTES:** Depending on countertop height, you may not have to trim the toe panel.

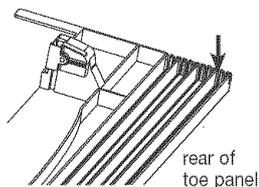
Rugs placed in front of dishwasher could interfere with toe panel. Clearance between floor and toe panel may need to include the rug thickness.

1. Partially open the bottom drawer.
2. Turn the toe panel upside down and hold vertically against the bottom edge of the tub side (not the front).
3. On the toe panel, mark where the tub's bottom edge is.

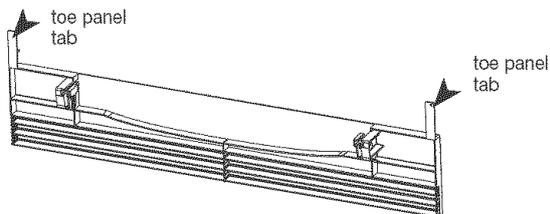


4. On a stable surface, place toe panel on a wooden cutting board and pick the closest groove to the mark. If the mark is between two grooves, choose the groove that makes the toe panel the shortest.

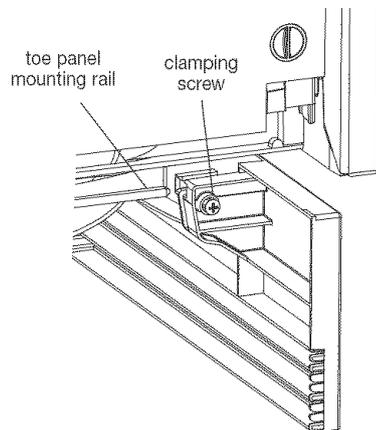
5. At the selected groove, use a utility knife and cut the vertical rib the length of the toe panel until entire piece is removed.



6. Snap off the toe panel tabs.

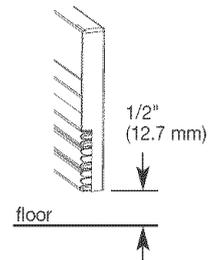


7. Remove any rough edges by sanding smooth.
8. Partially open bottom drawer. Position toe panel behind door and slide onto the underside of tub.



9. Close the drawer. Check that there is 1/2" (12.7 mm) minimum clearance between the bottom edge of the toe panel and the floor.

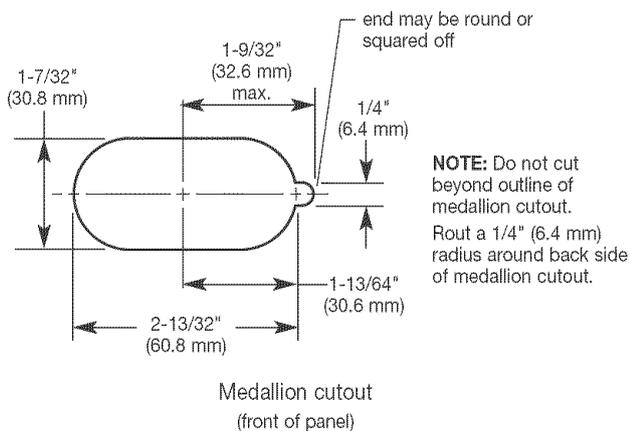
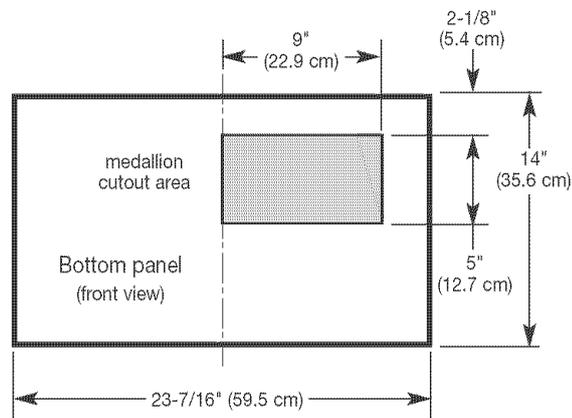
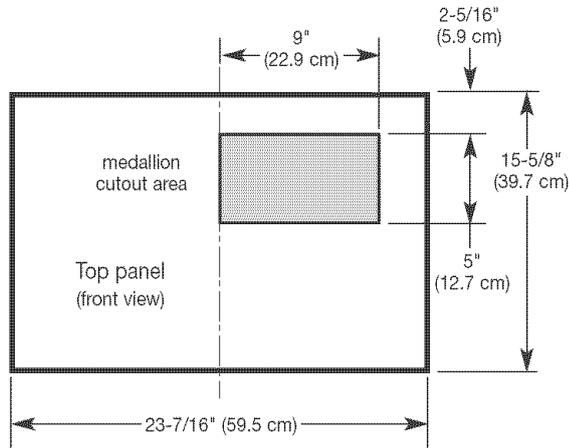
If not, remove the toe panel and shorten using the utility knife. Remove any rough edges.



10. Slide toe panel back onto mounting rails.
11. If needed, you may simply push the toe panel back or forward on the mounting rail.
12. With a Phillips screwdriver, tighten the toe panel clamping screws on both sides.
13. Plug in dishwasher or reconnect power.
14. Go to "Complete Installation" section.

## Option 2: Install custom front panels

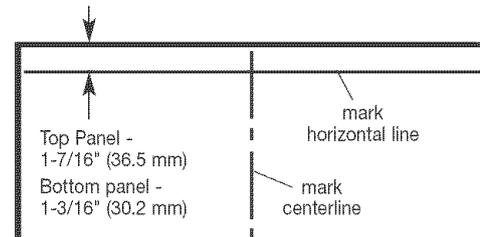
### Custom front panel dimensions



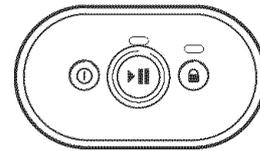
Upper and lower panel minimum thickness is 5/8" (16 mm). Panel thickness above 11/16" (18 mm) can be accommodated but product depth will increase accordingly.

Custom front panel material must be suitable for damp conditions or adequately sealed to withstand moisture. Using a moisture-resistant material can provide additional protection. Taping edges alone may not provide adequate sealing. For painted panel, paint all rear edges to improve sealing.

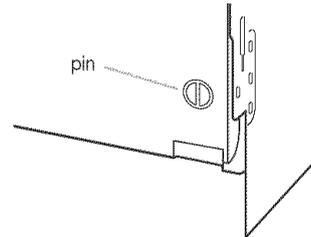
1. Prepare the custom front panels to specifications shown.
2. Mount the handle to the custom panel. The screws must not extend beyond the back surface of the panel. (Handle is customer supplied, location is customer preference.)
3. Lay the custom front panel face down on a protective covering.
4. Measure and mark the vertical centerline and horizontal position line on the back of the front panels.



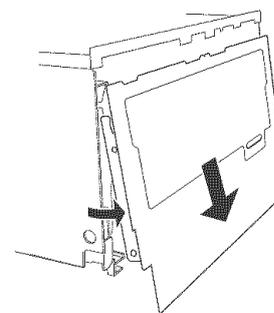
5. Feed the wires of the medallion connector through the front of the custom front panel and push the medallion into the prepared medallion hole.



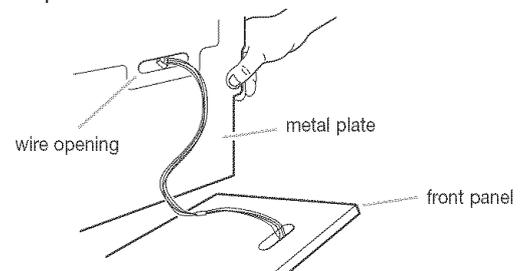
6. Remove the pins on both sides of the dishwasher drawer by pulling the pins straight out with a pair of needle-nose pliers.



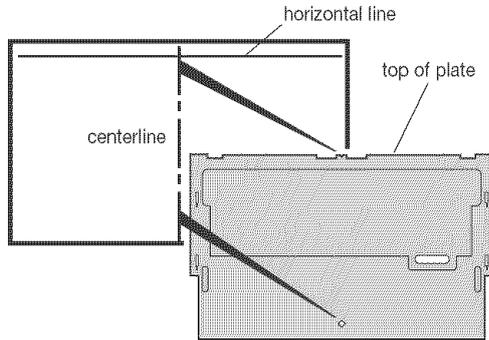
7. Gently pull the bottom of the metal plate away from the dishwasher, and then pull down.



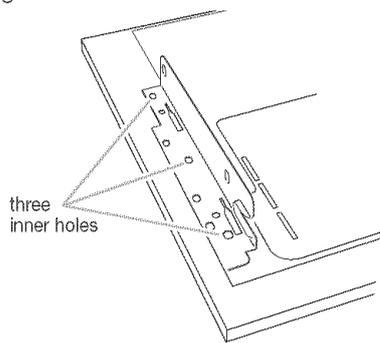
8. Lay the custom front panel face down.
9. Feed the medallion wires through the wire opening in the metal plate.



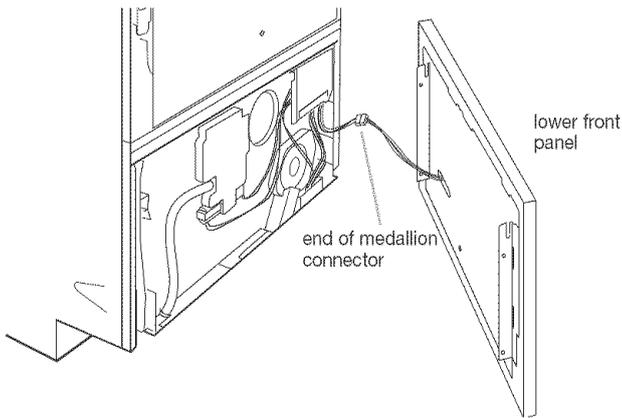
- Lay the metal plate on the back of the custom front panel.
- Align the centerline marked on the custom panel with the diamond shape and notch in the metal plate to center the metal plate horizontally. Align the horizontal line with the top of the metal plate.



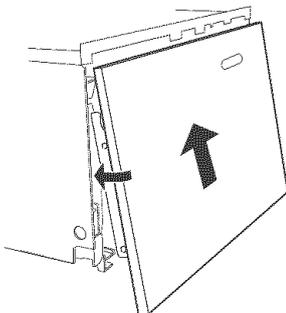
- Using the screws provided, fasten the metal plate to the front panel through the 3 inner holes.



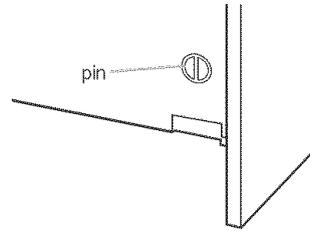
- Connect the medallion connector to the dishwasher connector.



- Slide the metal plate tabs into the notches and slots on the dishwasher and gently pull up to lock in place.



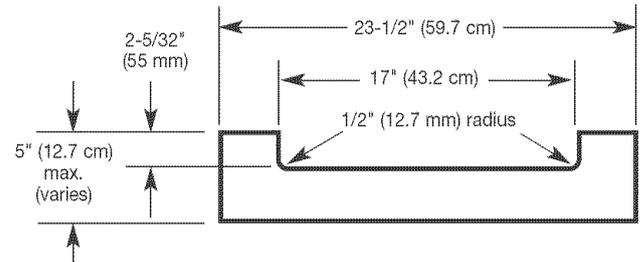
- Line up the bracket holes with the pin holes and replace each pin so that the pin line is vertical.



- Repeat steps 2–15 for other custom panel.

## Option 2: Install custom toe panel

### Custom toe panel dimensions

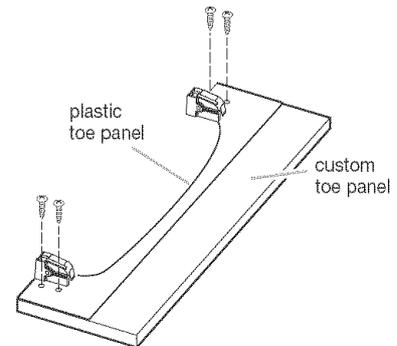


The black prefinished toe panel can also have a custom front panel with a thickness from 3/8" to 3/4" (9–19 mm) attached to it. Determine the height of the toe panel custom panel: The minimum height is 2-3/4" (70.5 mm). Measure from the top of the adjacent cabinet door front to the floor. Subtract 28-15/32" (72.3 cm) for needed toe panel height.

**NOTES:** Depending on countertop height, you may not have to trim the toe panel.

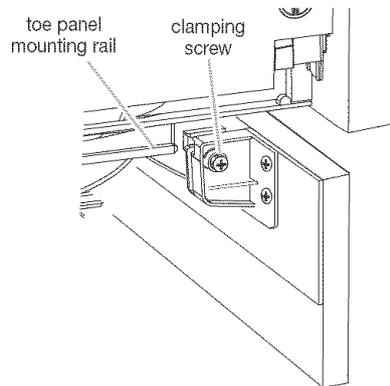
Rugs placed in front of dishwasher could interfere with toe panel. Clearance between floor and toe panel may need to include the rug thickness.

- Prepare the custom toe panel to specifications shown above.
- Lay the custom toe panel face down.
- Fasten the black plastic toe panel on the back of the custom toe panel with the screws provided with the dishwasher.



- Partially open bottom drawer. Position custom toe panel behind door and slide on the underside of tub.
- Close the drawer and slide the toe panel back onto mounting rails.

6. If needed, you may simply push the toe panel back or forward on the mounting rail.
7. With a Phillips screwdriver, tighten the toe panel clamping screws on both sides.



8. Plug in dishwasher or reconnect power.

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### Complete Installation

1. Check to be sure all parts are now installed. If there is an extra part, go back through the steps to see which step was skipped.
2. Check to be sure you have all of your tools.
3. Dispose of/recycle all packaging materials.
4. Read "Dishwasher Use" in the Drawer Dishwasher Use and Care Guide.

**If dishwasher does not operate, check the following:**

- Household fuse is intact and tight; or circuit breaker has not tripped.
- Electrical supply is connected.
- See "Troubleshooting" in your Use and Care Guide.

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