# Design Guide with Installation Instructions

36" Built-In Bottom-Freezer Refrigerators



## **BEFORE YOU BEGIN**

Read these instructions completely and carefully.

### • **IMPORTANT** – Save these instructions

- for local inspector's use. Observe all governing codes and ordinances.
- Note to Installer Be sure to leave these instructions with the Consumer.
- Note to Consumer Keep these instructions with your Owner's Manual for future reference.

## WARNING:

This appliance must be properly grounded. See "Grounding the Refrigerator," page 9.

## **AVERTISSEMENT**

Cet appareil doit être correctement mis à la terre. Consulter « Mise à la terre du réfrigérateur », page 9.

If you received a damaged refrigerator, you should immediately contact your dealer or builder.

## **CAUTION:**

Due to the weight and size of this refrigerator, and to reduce the risk of personal injury or damage to the product—THREE PEOPLE ARE REQUIRED FOR PROPER INSTALLATION.

## PRUDENCE

À cause du poids et de la taille de ce réfrigérator et pour réduire le risque de blessure et de dommages, IL FAUT TROIS PERSONNES POUR FAIRE L'INSTALLATION CORRECTEMENT. **Skill Level** — Installation of this refrigerator requires basic mechanical, carpentry and plumbing skills. Proper installation is the responsibility of the installer. Product failure due to improper installation is not covered under the GE Appliance Warranty. See the Owner's Manual for warranty information.

## WARNING:

- These refrigerators are top-heavy and must be secured to prevent the possibility of tipping forward. Anti-Tip protection is required. See page 11 for details.
- Use this appliance only for its intended purpose.
- Immediately repair or replace electric service cords that become frayed or damaged.
- Unplug the refrigerator before cleaning or making repairs.
- Repairs should be made by a qualified service technician.

## **AVERTISSEMENT**

- Ces réfrigérateurs sont lourds en haut et il faut les arrimer pour éviter leur basculement. Il faut avoir un système de protection contre le renversement. Voir les détails page 11.
- Il ne faut utiliser cet appareil que pour l'utilisation appropriée.
- Réparer ou remplacer immédiatement tout cordon électrique effiloché ou endommagé.
- Il faut débrancher le réfrigérateur avant le nettoyage ou toute intervention.
- Les réparations doivent être faites par un technicien qualifié.

For Monogram local service in your area, call 1.800.444.1845. For Monogram service in Canada, call 1.800.561.3344 For Monogram Parts and Accessories, call 1.800.626.2002.

www. monogram.com

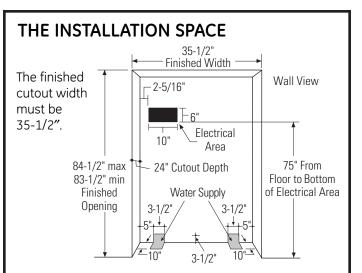
### CONTENTS

#### **Planning Guide**

· · · · · · · · · · · · · · · · · · ·	
The Installation Space	3
Dimensions and Clearances	3
130° Door Swing	4
90° Door Swing	5
Customization Basics	6
Panel Dimensions	7
Side Panels	8
ZUG2 Grille Panel Dimensions	8

#### Installation Instructions

Tools, Hardware, Materials9Grounding the Refrigerator9Step 1, Remove Packaging10Step 2, Install Water Line10Step 2A, RO Water Line11Step 3, Install Side Panels11Step 4, Install Anti-Tip Brackets11Step 5, Level Refrigerator12Step 6, Alternate Anti-Tip Procedure12Step 7, Secure Refrigerator to<br/>Cabinetry12



#### Water And Electrical Locations

Electrical and water supply must be located as shown.

#### The cutout depth must be 24"

The refrigerator will project forward, slightly beyond adjacent cabinetry, depending on your installation.

#### Cutout depth beneath a soffit:

When installed beneath a soffit, the soffit cannot exceed the 24" installation depth shown. The top case trim overlaps the bottom of the soffit.

#### Additional Specifications

• A 115 volt 60Hz., 15 or 20 amp power supply is required. An individual properly grounded branch circuit or circuit breaker is recommended. Install a properly grounded 3-prong electrical receptacle recessed into the back wall. Electrical must be located on rear wall as shown.

**Note:** GFI (ground fault interrupter) is not recommended.

• Water line can enter the opening through the floor or back wall. Route GE SmartConnect<sup>™</sup> kit or 1/4" O.D. copper tubing between the cold water line and the water connection location. The tubing should be long enough to extend to the front of the refrigerator. Installation of an easily accessible shut-off valve in the water line is required.

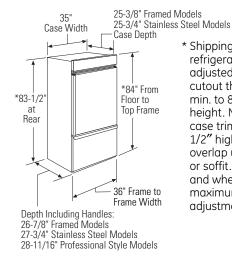
#### ZUG2, ZUGSS2 Unified Grille Panel Kit

• If you are installing two refrigerators, side by side, the installation space must be 71-1/2" wide.

**Note:** Additional cutout width may be required when side panels are used. Add side panel thickness to the finished cutout to calculate rough-in width.

- The water and electrical locations for each product must be located as shown.
- A separate 115V, 60Hz., 15 or 20 amp power supply is recommended for each product.

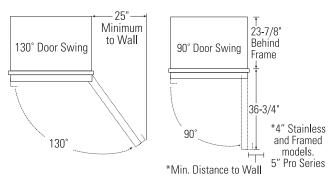
### DIMENSIONS AND CLEARANCES



\* Shipping height. The refrigerator can be adjusted to fit into a cutout that is 83-1/2" min. to 84-1/2" max. height. Note that the top case trim at the front is 1/2" higher and will overlap upper cabinetry or soffit. Use leveling legs and wheels for a maximum 1" height adjustment.

#### **Product Clearances**

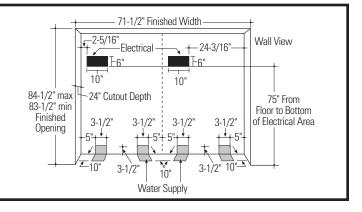
These refrigerators are equipped with a 2-position door stop. The factory set 130° door swing can be adjusted to 90° if clearance to adjacent cabinets or walls is restricted.



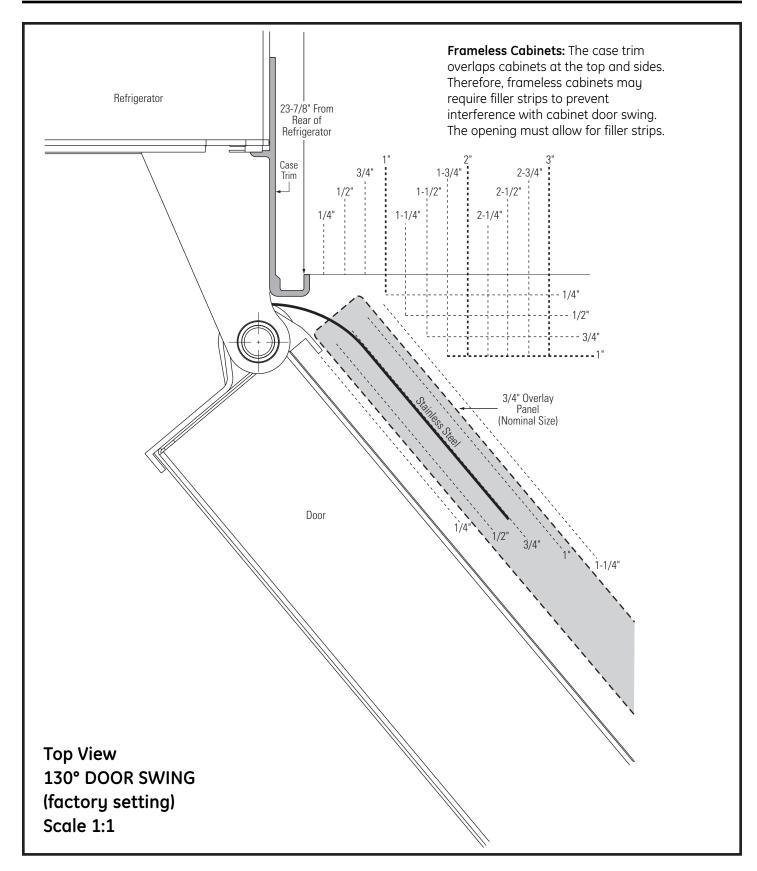
Allow 25" minimum clearance for a full 130° door swing. Allow 15" for pan removal.

For a 90° door swing, allow 4" min. clearance to a wall, for framed and stainless steel models. Allow 5" min. clearance for professional style models. If the 90° door stop position is used, pan access is maintained, but pan removal is restricted.

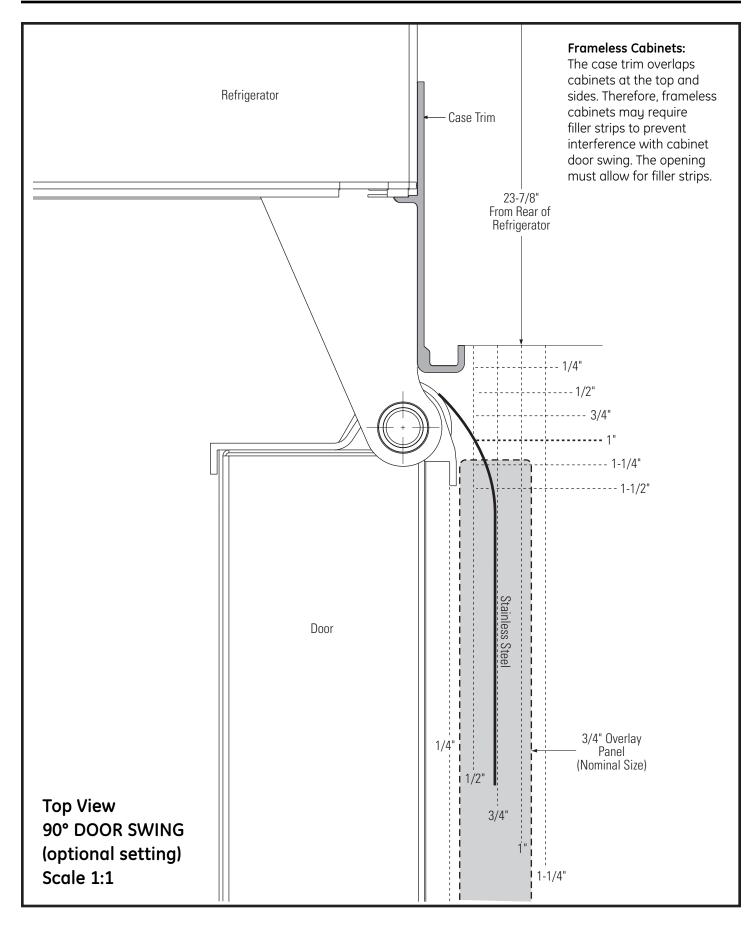
See illustrations pages 4 and 5 to determine door swing interaction with adjacent cabinets or countertops.



## Design Guide



## Design Guide



### CUSTOMIZATION BASICS:

### Framed Or Overlay Panels, Custom Handles and Accessory Kits

#### Professional Style Stainless Steel Refrigerators

Stainless steel wrapped refrigerators with beveled edges and professional style handles. These models are shipped ready for installation.

#### Stainless Steel Wrapped Refrigerators

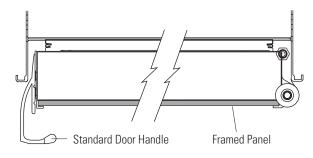
Stainless steel wrapped refrigerators with beveled edges and tubular stainless steel handles that coordinate with other Monogram appliances. These models are shipped ready for installation.

#### **Trimmed Refrigerators**

Trimmed refrigerators are designed to be customized with decorative panels. Field installed custom door and grille panels are required.

#### Framed panels

You may install 1/4" thick custom panels from your cabinet manufacturer. The decorative panel slides into the factory installed trim. Or, order black, white and stainless steel accessory panels from your Monogram dealer.



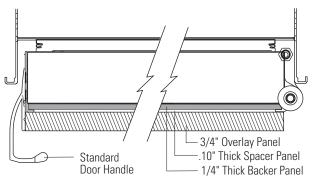
Standard supplied handles shown in 1/4" panel position.

### **Optional Accessory Kits**

- ZKHCSS2: Monogram Tubular Stainless Steel handles designed to fit 3/4" overlay panels. This kit also includes a handle side trim for custom handles.
- ZUG2: For side-by-side installation of two trimmed bottom-freezer refrigerators. This kit provides for the installation of a unified custom grille panel to span the width of two units using a framed or overlay panel.
- ZUGSS2: For side-by-side installation of two stainless steel wrapped bottom-freezer refrigerators. This kit provides a unified stainless steel grille panel to span the width of two units.

### Overlay panels

You may also choose to install custom overlay panels from your cabinet manufacturer. This design provides a seamless appearance which integrates smoothly with surrounding cabinetry.



Standard supplied handles shown in 3/4'' overlay panel position.

#### Door and Drawer Handles

The standard supplied handles can be adjusted to accommodate both framed or overlay panels. Custom handles of your choice, supplied by your cabinet maker can also be installed on overlay panels. If desired, you may order ZKHCSS2 Monogram stainless steel tubular handle kit for 3/4" overlay panels.

#### Side Panels

Side panels must be used whenever the sides of the refrigerator will be exposed.

• ZKHCT: Handle side trim for left-hand and right-hand doors. For use on 3/4" custom panels when using a custom handle.

#### Accessory Panels

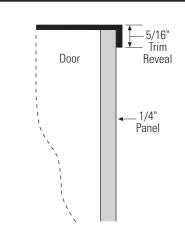
White, black and stainless steel accessory panels are available from your Monogram dealer. Panels are cut to size and ready to install.

ZPBC360–Black, ZPWC360–White, ZPSC360–Stainless Steel Panels

### 1/4" FRAMED PANEL DIMENSIONS

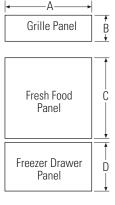
If you choose to install framed panels, they must be cut to the dimensions shown. The panels will slide into the frame on the door, drawer and grille.

If the custom panel is less than 1/4" thick and if it fits loosely in the door frame, it can be backed up with a piece of filler material or foam tape to improve the fit.



#### IMPORTANT NOTE: Maximum total

- panel weight:
- Fresh food door panel 58 lbs.
- Freezer drawer panel 28 lbs.
- Grille Panel 11 lbs.



#### Framed Panel Dimensions

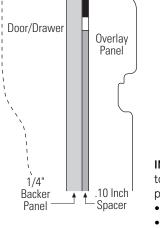
	A (Width)	B (Grille Height)	C (FF Height)	D (FZ Height)
1/4" Framed Panel	33-7/8″	8-7/8″	46-1/16″	21-7/8″
uarlau Danal Dimona	ione			
verlay Panel Dimens	i <b>ons</b> A (Width)	B (Grille Height)	C (FF Height)	D (FZ Height)
verlay Panel Dimens		B (Grille Height) 8-7/8"	C (FF Height) 46-1/16"	D (FZ Height) 21-7/8"
	A (Width)	· J ·	· 5 ·	· J ·

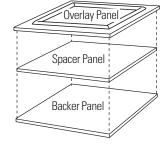
### 3/4" OVERLAY PANEL DIMENSIONS

For a more custom appearance, overlay panels may be installed on trimmed models. The overlay panel must be secured to a 1/4" thick backer panel which slides into the trim. A spacer panel 0.10" thick must be placed between the overlay and backer panel.

Assemble the panels with glue and screws.

- Center the spacer panel on the backer panel, left to right and top to bottom. Secure the panels with glue.
- Center the spacer and backer panel on the overlay panel and secure with glue and screws. Screws must be countersunk into the backer panel.





**IMPORTANT NOTE**: Maximum total weight for the assembled panels:

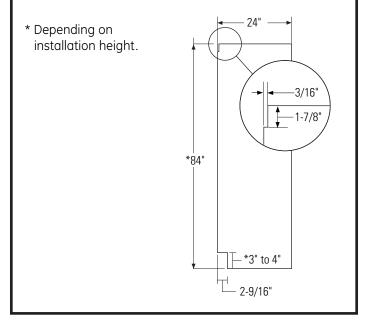
- Fresh food door panel 58 lbs.
- Freezer drawer panel 28 lbs.
- Grille Panel 11 lbs.

**NOTE:** Left-to-right offset is not always equal to top-to-bottom offset.

### SIDE PANELS

Side panels must be used whenever the sides of the refrigerator will be exposed. The 1/4" side panels will slip into the side case trim. Secure the panels to the refrigerator with stick-on hook and loop fastener strips. Order the side panels from the cabinet manufacturer.

• Cut a notch in the top front corner as shown to allow clearance for corner keys in the front side trim.



### **ZUG2 GRILLE PANEL DIMENSIONS**

The ZUG2 unified grille panel kit provides for the installation of a framed or overlay grille panel.

 Α	
Grille Panel	↑ B

Framed Panel Dimensions		
	A (Width)	B (Height)
1/4" Framed Panel	69-7/8″	8-7/8″
Quarlau Banal Dimonsiona		
Overlay Panel Dimensions	, A (Width)	B (Height)
1/4" Backer Panel	69-7/8 <b>″</b>	8-7/8″
0.10" Spacer Panel	68-1/2″	7-5/8″
3/4" Overlay Panel	70-1/8″	9″
	erlay Panel	
Sp	pacer Panel	
Ba	acker Panel	

Assemble the overlay panels in the same manner as the door and drawer panels.

### TOOLS REQUIRED

- Tinsnips to cut banding
- Stepladder
- Bucket
- Level
- Appliance Hand Truck
- Tubing cutter
- 7/16" open-end wrench
- #2 Phillips screwdriver
- Drill and appropriate bits
- 5/16", 7/16" socket
- Safety glasses
- 1-1/4" open end wrench
- Pliers
- 1/4" ratchet

### HARDWARE SUPPLIED

- Water filter bypass plug
- Anti-Tip brackets
- 1/4" nut and ferrule

### MATERIALS REQUIRED

- 35" long 2x4 for Anti-Tip support
- 1/4" copper water line tubing or GE SmartConnect™ Refrigerator Tubing kits
- Water shut-off valve
- Custom panels for fresh food door, freezer drawer and grille panel
- Screws to secure refrigerator to cabinetry.
- Stick-on hook and loop fastener strips for 1/4" side panels

### FLOORING

For proper installation, this refrigerator must be placed on a level surface of hard material that is at the same height as the rest of the flooring. This surface should be strong enough to support a fully loaded refrigerator, or approximately 1,200 lbs.

**NOTE:** Protect the finish of the flooring. Cut a large section of the cardboard carton and place under the refrigerator where you are working.

### **GROUNDING THE REFRIGERATOR**

#### IMPORTANT-(Please read carefully)

FOR PERSONAL SAFETY, THIS APPLIANCE MUST BE PROPERLY GROUNDED.

The power cord of this appliance is equipped with a 3-prong (grounding) plug which mates with a standard three-prong (grounding) wall receptacle to minimize the possibility of electric shock hazard from this appliance.

Have the wall outlet and circuit checked by a qualified electrician to make sure the outlet is properly grounded.

Where a standard 2-prong wall outlet is encountered, it is your personal responsibility and obligation to have it replaced with a properly grounded 3-prong wall outlet.

DO NOT, UNDER ANY CIRCUMSTANCES, CUT OR REMOVE THE THIRD (GROUND) PRONG FROM THE POWER CORD.



DO NOT USE AN ADAPTER PLUG TO CONNECT THE REFRIGERATOR TO A 2-PRONG OUTLET.

DO NOT USE AN EXTENSION CORD WITH THIS APPLIANCE.

### STEP 1 REMOVE PACKAGING

**CAUTION:** Refrigerator is much heavier at the top than at the bottom—be careful when moving. When using a hand truck, handle from side only.

**PRUDENCE:** Le réfrigérateur est beaucoup plus lourd en haut qu'en bas. Il faut être prudent lors des déplacements. Si un diable est utilisé, il faut soulever le réfrigérateur sur le côté seulement.

- Carefully cut banding at the top and bottom, remove outer carton.
- Slide out back corner posts (2).
- Slide carton off top of cabinet.

**NOTE:** IT IS NOT NECESSARY TO LAY CABINET DOWN IN ORDER TO REMOVE SKID!

• The unit is secured to the skid with 4 slotted tie-down straps. Remove the four 5/16" bolts from the base channels in the tie-downs.

### STEP 2 INSTALL WATER LINE

- A cold water supply is required for automatic icemaker operation. The water pressure must be between 40 and 120 p.s.i.
- Route 1/4" OD copper or GE SmartConnect™ plastic tubing between house cold water line and the water connection location.
- Tubing should be long enough to extend to the front of the refrigerator. Allow enough tubing to accommodate bend leading into the water line connection.

**NOTE:** The only GE-approved plastic tubing is supplied in the GE SmartConnect<sup>™</sup> Refrigerator Tubing kits. Do not use any other plastic water supply line because the line is under pressure at all times. Other types of plastic may crack or rupture with age and cause water damage to your home.

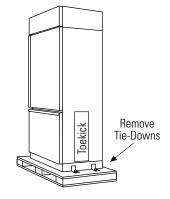
GE SmartConnect<sup>™</sup> Refrigerator Tubing Kits are available in the following lengths:

2' (.6 m) WX08X10002 6' (1.8 m) WX08X10006 15' (4.6 m) WX08X10015 25' (7.6 m) WX08X10025

#### Shut off the main water supply.

Turn on the nearest faucet long enough to clear the line of water.

• Install a shut-off valve between the icemaker water valve and cold water pipe in a basement or cabinet. The shut-off valve should be located where it will be easily accessible.



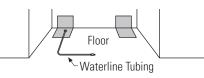
• Remove the four 7/16" bolts securing the straps to the skid.

#### CAUTION: DO NOT ATTEMPT TO ROLL UNIT OFF SKID.

#### **PRUDENCE:** IL NE FAUT PAS ESSAYER DE FAIRE

ROULER LE RÉFRIGÉRATEUR POUR L'ENLEVER DE LAY PALETTE.

- Support blocks on the bottom of the refrigeration case must be removed before the refrigerator is taken off the skid or damage will occur. Carefully, tilt refrigerator and slide blocks out from beneath.
- Remove toekick. Set aside for final installation.
- Lift the refrigerator off the skid with an appliance dolly. Handle from the sides.



• Turn on the main water supply and flush debris. Run about a quart of water through the tubing into a bucket. Shut off water supply at the shut-off valve.

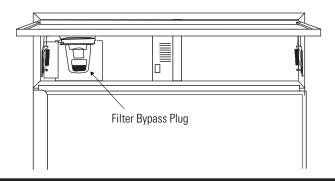
**NOTE:** Saddle type shut-off valves are included in many water supply kits, but are not recommended for this application.

**NOTE:** Commonwealth of Massachusetts Plumbing Codes 248CMR shall be adhered to. Saddle valves are illegal and use is not permitted in Massachusetts. Consult with your licensed plumber.

### STEP 2A WATER LINE INSTALLATION WITH A REVERSE OSMOSIS SYSTEM

#### Skip this step when not using an RO System

If the water supply to the refrigerator is from a Reverse Osmosis Water System, use the refrigerator's filter bypass plug. Using the refrigerator's water filtration cartridge with the RO filter can result in hollow ice cubes.



### STEP 3 INSTALL SIDE PANELS

#### Skip this step when not using side panels

If you are using 1/4" side panels, they should be inserted into the case trim. Fasten the panels to the refrigerator with stick-on hook and loop fastener strips before setting refrigerator in place.

### STEP 4 INSTALL ANTI-TIP BRACKETS

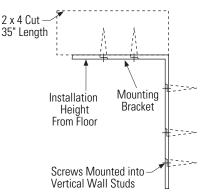
### WARNING: ANTI-TIP PRECAUTIONS

The refrigerator is top-heavy and must be secured to prevent the possibility of tipping forward.

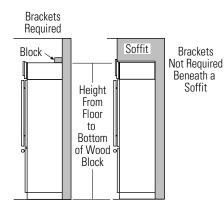
## **ATTENTION:** PRECAUTIONS CONTRE LES BASCULEMENTS

Le réfrigérateur est beaucoup plus lourd en haut et il faut le maintenir en place pour éviter la possibilité de son basculement vers l'avant.

• Cut a 2" x 4" x 35" block and secure the block to the mounting brackets provided using #12 or #14 wood screws.



• Secure the bracket with wood block to the back wall so that it is 84" (or your installation height) from the finished floor. Use #12 or #14 wood screws. See illustration.



#### Side View

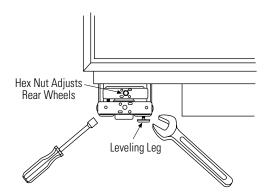
- Screws must penetrate at least one inch into vertical wall studs.
- Before pushing the refrigerator into the opening, plug the power cord into the receptacle. Open the grille panel and reach into the opening at the back to grasp the power cord. Pull the power cord into the opening as you push the refrigerator back.
- Gently push refrigerator into the opening with hands against front corners.

**Important Note:** When the refrigerator is installed under a soffit or if there is not enough height for this method of security, brackets cannot be used. Proceed to step 5 to level the refrigerator and then to step 6 to secure refrigerator to cabinets. The refrigerator must be secured to prevent tipping.

### STEP 5 LEVEL REFRIGERATOR

All models have 4-point leveling. The front is supported by leveling legs, the rear is supported by adjustable wheels. Both are accessible from the front of the refrigerator.

- To level the back of the refrigerator, turn the 7/16" hex nut located above the front wheels. Turn clockwise to raise or counterclockwise to lower the refrigerator.
- For front leveling, use a 1-1/4" open-end wrench.
- Adjust height of refrigerator to match installation cutout opening 83-1/2 to 84-1/2". The refrigerator should be level and plumb with cabinetry.



## **CAUTION:**

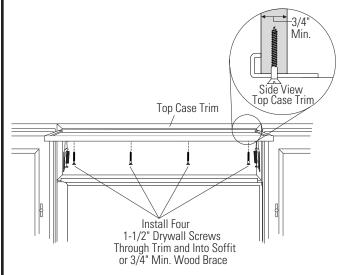
The rear leveling wheels and front leveling legs are limited to a maximum height adjustment of 1". If the installation requires more than 84-1/2" height, the installer should elevate the refrigerator on a sheet of plywood or runners. Cabinetry trim could also be added across the top of the opening to shorten the opening. If you attempt to raise the refrigerator more than 1", you will damage the front leveling legs and the rear leveling wheels.

## PRUDENCE

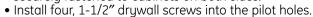
Les roues de nivellement arrière et les pattes de nivellement avant permettent un réglage maximal de 25 mm (1 po). Si l'ouverture pour le réfrigérateur a une hauteur supérieure à 2,15 m (84-1/2 po), l'installateur doit élever le réfrigérateur sur une feuille de contre-plaqué ou des glissières. Il est également possible d'ajouter des baguettes de finition des placards sur le haut de l'ouverture afin de la réduire. Lever le réfrigérateur de plus de 25 mm (1 po) endommage les pattes de nivellement avant et les roues de nivellement arrière.

### STEP 6 ALTERNATE ANTI-TIP PROCEDURE

The refrigerator must be secured to prevent tipping. The anti-tip brackets cannot be used on metal wall studs. Use this Alternate Procedure to secure the refrigerator against tip-over whenever metal wall studs are encountered and there is no soffit.



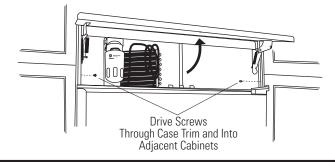
- Raise the grille panel to access case trim.
- Use a 3/16" bit to drill four evenly spaced clearance holes through the metal top case trim.
- Use a 1/16" bit to drill to pilot holes through the metal clearance holes and into the wood soffit. The holes should be centered in the soffit or a 3/4" min. wood brace. The brace spanning the enclosure must be securely fastened to cabinets on both sides.



### STEP 7 SECURE REFRIGERATOR TO CABINETRY

Whenever possible, perform this step for anti-tip security, or when anti-tip brackets cannot be used. **The refrigerator must be secured to prevent tipping**.

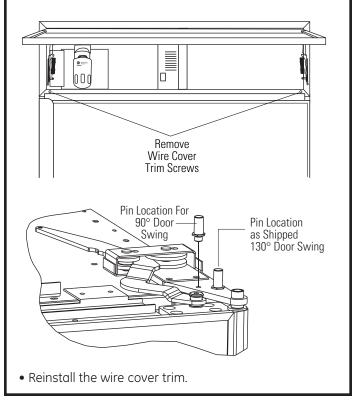
- Raise the grille panel to access case trim.
- Drill hole in trim and drive screw through the trim into adjacent cabinet.
- Follow the same procedure on the opposite side.



### STEP 8 ADJUST DOOR SWING

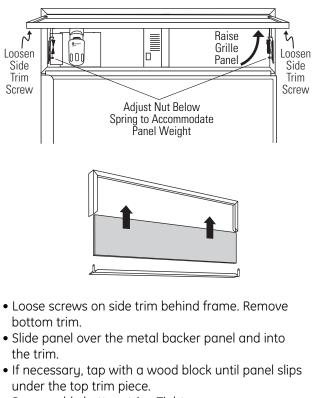
**NOTE:** This refrigerator has a 2-position door stop. When space does not allow the door to swing open fully to 130°, you may change the door swing to a 90° opening. **Skip this step if door opening is satisfactory for your installation situation.** 

- Lift the grille panel to access the wire cover trim.
- Remove screws on both sides of the wire cover trim and lift off.
- Use pliers to unscrew door stop and reinstall into the 90° position.

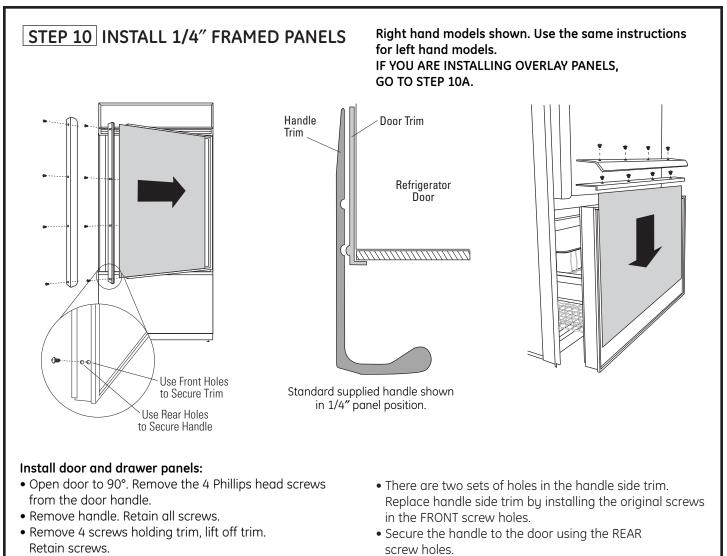


### STEP 9 INSTALL GRILLE PANEL

• Raise the grille panel to stop position.

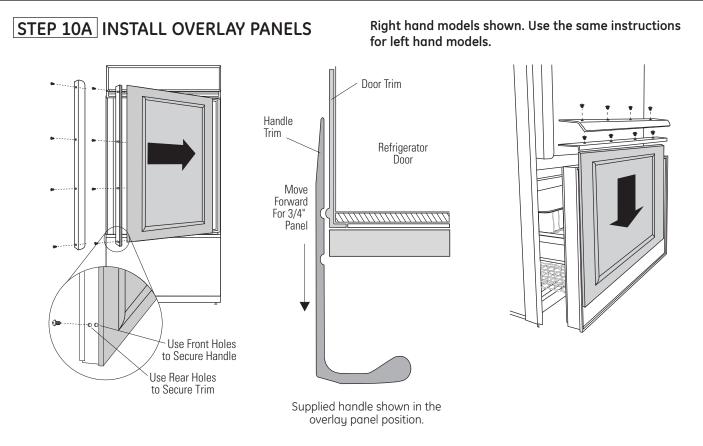


- Reassemble bottom trim. Tighten screws.
- Adjust the hinge spring to accommodate the panel weight, if necessary.



• Slide framed panel into the door trim.

• Follow the same procedures to install the drawer panel.



#### Install door and drawer panels:

- Open door to 90°. Remove the 4 Phillips head screws from the door handle.
- Remove handle. Retain all screws.
- Remove 4 screws holding trim, lift off trim. Retain screws.
- Slide overlay panel into the door trim.

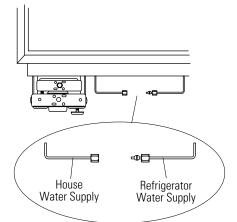
- There are two sets of holes in the handle side trim. Replace handle side trim by installing the original screws in the REAR screw holes.
- Secure the handle to the door using the FRONT screw holes.
- Follow the same procedures to install the drawer panel.

#### **Custom handles**

If you are using custom handles, the handle must be properly secured to the panel before sliding the panel into the trim.

- The cabinet manufacturer will supply the custom handle and hardware.
- Secure the door/drawer trim using both the FRONT and REAR screw holes. Discard supplied handle.

## STEP 11 CONNECT WATER SUPPLY



- Locate and bring tubing to the front of the cabinet.
- Turn the water on to flush debris from line. Run about a quart of water through tubing into a bucket, then shut off water.

#### Copper Tubing:

- Slip a 1/4" nut and ferrule (provided) over both ends of the copper tubing. Insert tube into the union fitting on the unit and tighten nut to union.
- Turn on the water to check for leaks.

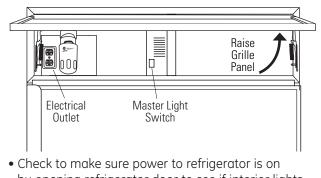
#### **GE SmartConnect<sup>™</sup> Tubing:**

- Insert the molded end of the tubing into the refrigerator connection. Tighten the compression nut until it is just hand tight.
- Tighten one additional turn with a wrench. Overtightening can cause leaks!
- Turn on the water to check for leaks.

**Note:** Make sure excess tubing length does not interfere with drawer closing or toekick installation.

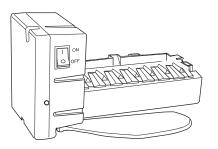
### **STEP 12** CONNECT POWER

• Check to be sure the power cord is plugged into the receptacle.



- Check to make sure power to retrigerator is on by opening refrigerator door to see if interior lights are on.
- The temperature controls are preset at 37°F for the fresh food section and 0°F for the freezer.
- Allow 24 hours to stabilize before making adjustments.

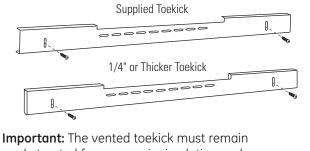
### STEP 13 START ICEMAKER



- Flip the switch to I (ON). The icemaker will begin operation automatically.
- Be sure nothing interferes with the sweep of the feeler arm.
- Discard the first full bucket of ice cubes.
- To turn the icemaker off, set the switch to O (OFF).

### STEP 14 INSTALL TOEKICK

- Locate the supplied toekick (shipped taped to the side of the refrigerator). Install with 2 screws provided, adjust to desired height and tighten screws.
- A custom toekick can be installed to match or complement the surrounding cabinetry. Use the supplied toekick as a template to cut out the notch and vent holes.



unobstructed for proper air circulation and refrigerator operation.

**NOTE:** While performing installations described in this book, safety glasses or goggles should be worn.

For Monogram<sup>®</sup> local service in your area, call 1.800.444.1845.

**NOTE:** Product improvement is a continuing endeavor at General Electric. Therefore, materials, appearance and specifications are subject to change without notice.



**GE Consumer & Industrial** Appliances General Electric Company Louisville, KY 40225 ge.com

Pub. No. 49-60468-1 Part No. 224D1145P001 08-07 JR