# Design Guide with Installation Instructions

36" Built-In French Door, Bottom-Freezer Refrigerators

Pub. No. 49-60700 Part No. 224D3560P001

12-13 GE

monogram.com



# **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.

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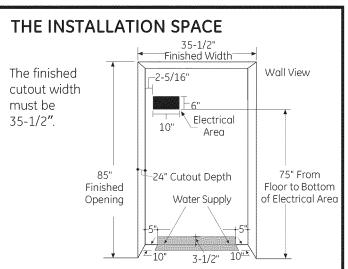
#### Planning Guide

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#### Installation Instructions

# **Design Guide**



#### 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. Allow minimum 1/8" air gap between case back & wall.

#### 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.

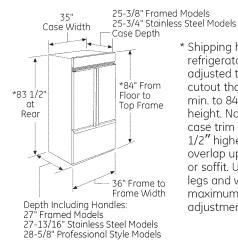
#### **Additional Specifications**

• 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 arounded 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™ 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.

### DIMENSIONS AND CLEARANCES

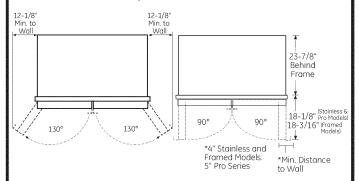


\* Shippina heiaht. The refrigerator can be adjusted to fit into a cutout that is 83-1/2" min. to 84-1/2" max. height. Note that the top case trim at the front is 1/2'' higher and will overlap upper cabinetry or soffit. Use leveling leas and wheels for a maximum 1" height

adiustment.

#### **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.

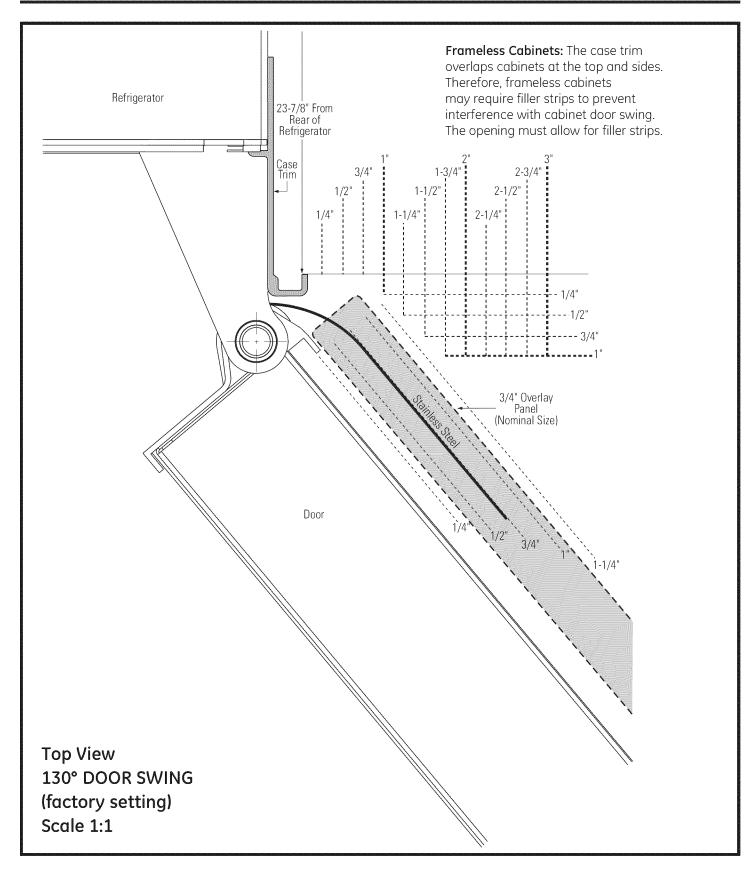


Allow 12-1/8" minimum clearance for a full 130° door swing.

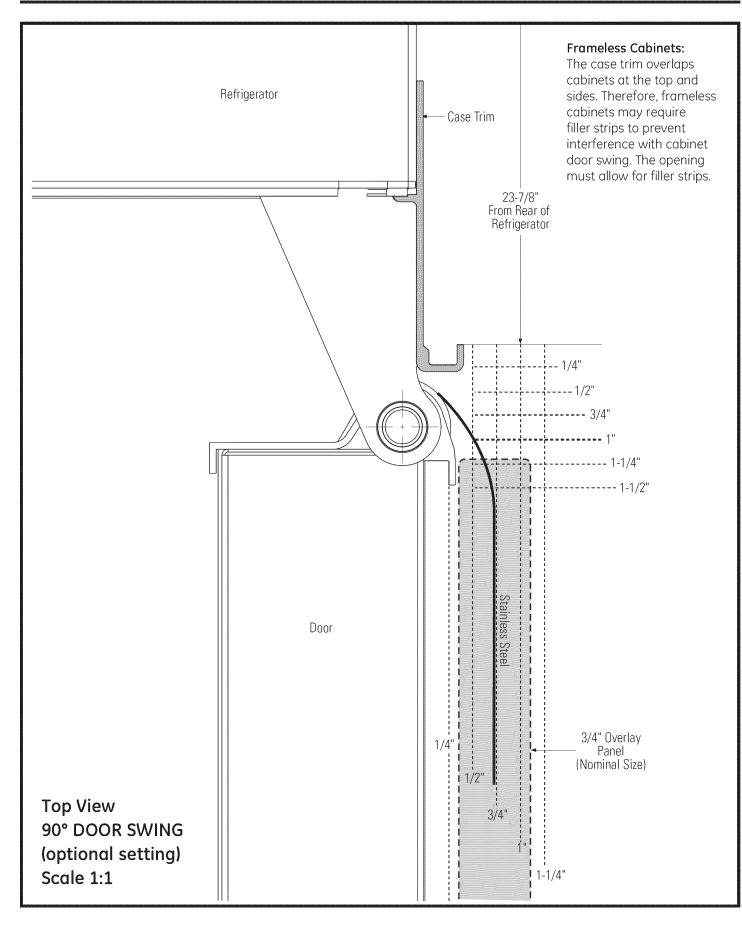
For a 90° door swing, allow 4" min. clearance to a wall, for framed and stainless steel models. Allow 5" min. clearance for professional style models. If the 90° door stop position is used, pan access is maintained, but pan removal is restricted.

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

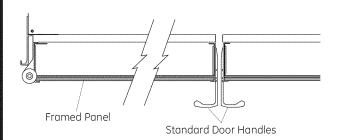
Stainless steel wrapped refrigerators with beveled edges and tubular stainless steel handles that coordinate with other Monogram appliances. These models are shipped ready for installation.

#### **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.



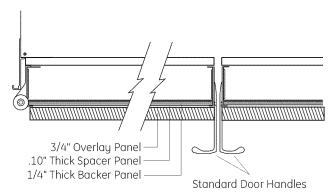
Standard supplied handles shown in 1/4" panel position.

#### **Optional Accessory Kit**

• ZKHPSS1: Professional Tubular Stainless Steel Handle designed to fit 3/4" overlay panels. Kit includes one handle. Order 3 kits for bottom-freezer refrigerators from your Monogram supplier.

#### 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  $3/4^{\prime\prime}$  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.

#### Side Panels

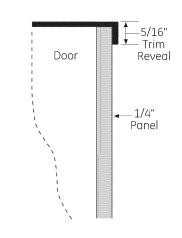
Side panels must be used whenever the sides of the refrigerator will be exposed.

## 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.

**Framed Panel Dimensions** 



#### IMPORTANT NOTE: Maximum total

panel weight:

- Fresh food door panel 30 lbs.
- Freezer drawer panel 28 lbs.
- Grille Panel 11 lbs.

<b></b> /	۹	-		
Grille	Grille Panel			
<b>∢</b> —Е—→	I ← E →			
Fresh Food Panel	Fresh Food Panel	C		
Freezer Par	Drawer iel	Î D ↓		

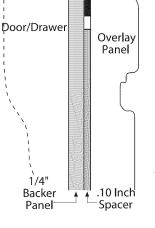
	A (Width)	B (Grille Height)	C (FF Height)	D (FZ Height)	E (FF Width)
1/4" Framed Panel	33-7/8″	8-7/8″	46-1/16″	21-7/8″	16-3/8″
verlay Panel Dimens					
verlay Panel Dimens	<b>ions</b> A (Width)	B (Grille Height)	C (FF Height)	D (FZ Height)	E (FF Width)
verlay Panel Dimens		B (Grille Height) 8-7/8"	C (FF Height) 46-1/16"	D (FZ Height) 21-7/8"	E (FF Width) 16-3/8″
	A (Width)		0	•	
1/4" Backer Panel	A (Width) 33-7/8″	8-7/8″	46-1/16"	21-7/8″	16-3/8″

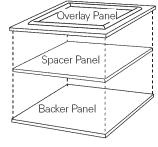
## 3/4" OVERLAY PANEL DIMENSIONS

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:

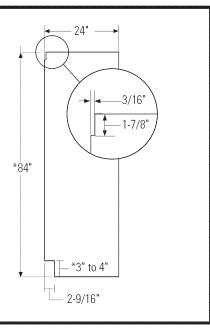
- Fresh food door panel 30 lbs.
- Freezer drawer panel 28 lbs.
- Grille Panel 11 lbs.

**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.
- \* Depending on installation height.



## 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

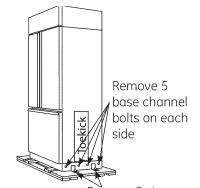
**CAUTION:** Refrigerator is much heavier at the top than at the bottom—be careful when moving. When using a hand truck, handle from side only.

**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 2 full-length tie-down straps. Remove the ten 5/16" bolts from the base channels in the tie-downs.



• 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.

Remove 2 strap bolts on each side

- 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.

# 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.

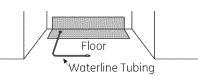
GE SmartConnect™ Refrigerator Tubing Kits are available in the following lengths:

2 ft (.6 m) WX08X10002 6 ft (1.8 m) WX08X10006 15 ft (4.6 m) WX08X10015 25 ft (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.



• 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.

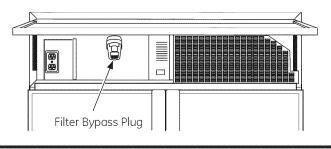
NOTE: Saddle type shut-off valves are included in many water supply kits, but are not recommended for this application.

**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

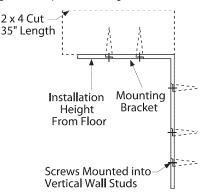
## WARNING: ANTI-TIP PRECAUTIONS

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

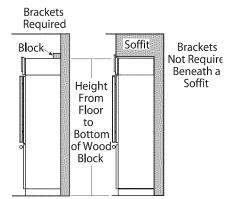
# **ATTENTION:** PRECAUTIONS CONTRE LES BASCULEMENTS

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" × 4" × 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

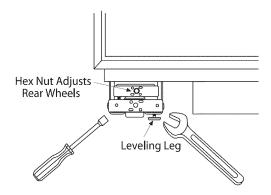
- Screws must penetrate at least one inch into vertical wall studs.
- Before pushing the refrigerator into the opening, plug the power cord into the receptacle. Open the grille panel and reach into the opening at the back to grasp the power cord. Pull the power cord into the opening as you push the refrigerator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

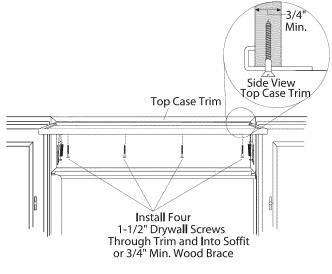
# PRUDENCE

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.

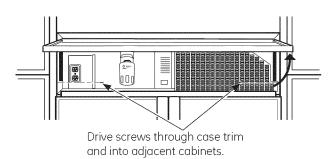


- Raise the grille panel to access case trim.
- Use a 3/16'' bit to drill four evenly spaced clearance
- holes through the metal top case trim.Use a 1/16" bit to drill to pilot holes through the metal clearance holes and into the wood soffit. The holes should be centered in the soffit or a 3/4'' min. wood brace. The brace spanning the enclosure must be securely fastened to cabinets on both sides.
- Install four, 1-1/2" drywall screws into the pilot holes.

#### 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.

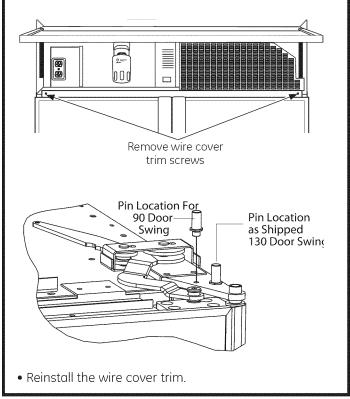
- Raise the arille panel to access case trim.
- Drill hole in trim and drive screw through the trim into adjacent cabinet.
- Follow the same procedure on the opposite side.



# STEP 8 ADJUST DOOR SWING

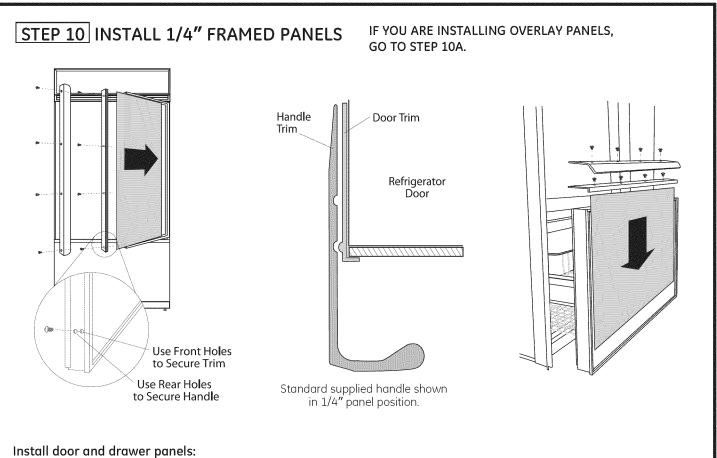
**NOTE:** This refrigerator has a 2-position door stop. When space does not allow the door to swing open fully to 130°, you may change the door swing to a 90° opening. Skip this step if door opening is satisfactory for your installation situation.

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



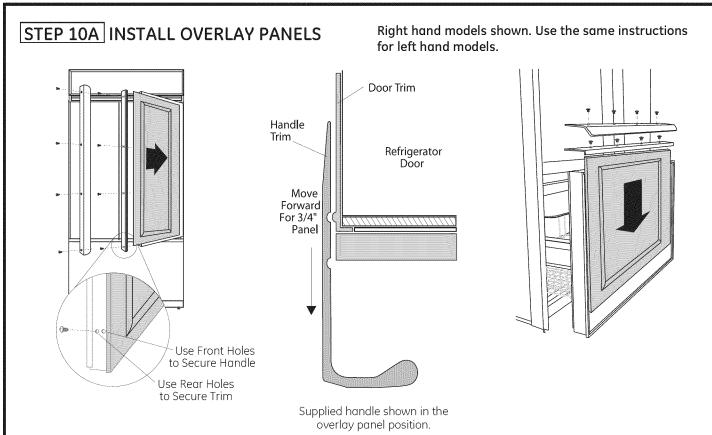
#### STEP 9 INSTALL GRILLE PANEL • Raise the grille panel to stop position. <u>0</u>\_\_\_\_ 000 Raise Grill Panel Loosen Loose Side 4 Side Trim Trim Screw Screw Adjust Nut Below Spring to Accommodate Panel Weight • Loose screws on side trim behind frame. Remove bottom trim. • Slide panel over the metal backer panel and into the trim. • If necessary, tap with a wood block until panel slips under the top trim piece.

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



- 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 framed 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 FRONT screw holes.
- Secure the handle to the door using the REAR screw holes.
- Follow the same procedures to install the second door panel and 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 second door panel and 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.

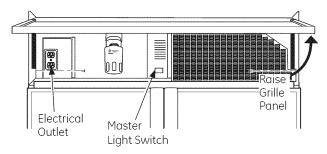
#### GE SmartConnect<sup>™</sup> Tubing:

- 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.

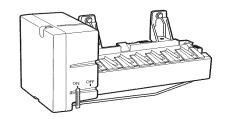
# STEP 12 CONNECT POWER

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



- Check to make sure power to refrigerator 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.

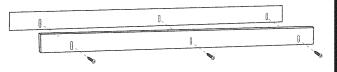
# STEP 13 START ICEMAKER



- 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 the toekick assembly with the 3 screws provided, adjust to the desired height and tighten the screws.



• A custom toekick can be installed to match or complement the surrounding cabinetry. Use the supplied toekick as a template to cut the shape.

**IMPORTANT:** The gap between the bottom of the refrigerator cabinet and the top of the toekick must remain unobstructed for proper air circulation.

## INSPECT FINAL INSTALLATION

Check door alignment

Stand back away from the refrigerator to inspect the final installation.

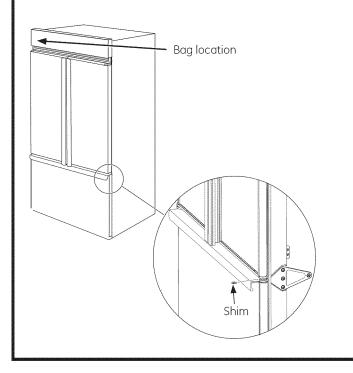
- Installation or the addition of heavy door panels may have caused the doors to move slightly out of alignment. Check to be sure the top of the doors are evenly aligned with each other. If necessary, the doors may be adjusted up or down to align.
- Add or subtract shims as shown to adjust the right door only. More shims are located under the hood on the left side in the bag with the filter bypass plug and mini manual.

#### To Raise Right Hand Door

- Lift the right hand door up so there is a gap below the bottom hinge bushing.
- Snap a shim onto the hinge pin below the bushing.
- Lower the door and re-check the alignment.
- Repeat as necessary.

#### To Lower Right Hand Door

- Lift the right hand door up so there is a gap below the bottom hinge bushing.
- Remove a shim by pushing shim off of the hinge pin.
- Lower the door and re-check the alignment.
- Repeat as necessary.



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



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