

Installation
Operation
and
Maintenance
Instructions

Built-In
Refrigerator/Freezer



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Before you begin - Read these instructions completely and carefully.

IMPORTANT - Save these instructions for local inspector's use.

IMPORTANT - OBSERVE ALL GOVERNING CODES AND ORDINANCES.

Note to Installer - Be sure to leave these instructions with the consumer.

Note to Consumer - Keep these instructions for future reference.

Remove Packaging

Your refrigerator/freezer has been packed for shipment with all parts that could be damaged by movement securely fastened. Before using, be sure all packing materials and tape have been removed.

Important

Keep your carton packaging until your refrigerator/freezer has been thoroughly inspected and found to be in good condition. If there is damage, the packaging will be needed as proof of damage in transit.

Note to Customer

This merchandise was carefully packed and thoroughly inspected before leaving our plant. Responsibility for its safe delivery was assumed by the retailer upon acceptance of the shipment. Claims for loss or damage sustained in transit must be made on the retailer as follows:

- Exterior and Concealed Damage
- Any damage must be reported immediately to your retailer.

DO NOT RETURN DAMAGED MERCHANDISE TO THE MANUFACTURER - FILE THE CLAIM WITH THE RETAILER.

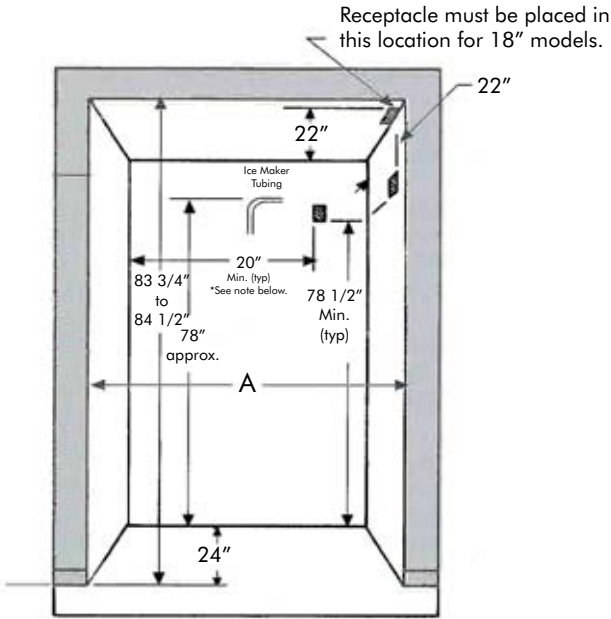
Safety

Protect your kitchen floor. Remove all packing materials from cabinet and if there was no freight damage then destroy cartoning, plastic bags and any exterior wrapping material. Children should never use these items for play. Remove all staples from your carton. Staples can cause severe cuts and destroy finishes if they come in contact with other appliances or furniture. Carefully read and follow the child safety precautions in the pamphlet enclosed with your new refrigerator. It is published by the Association of Home Appliance Manufacturers.

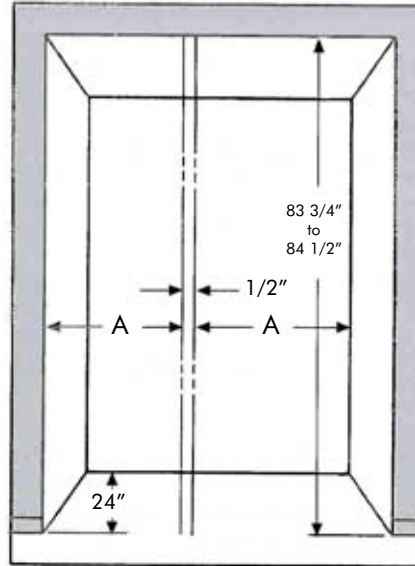
Tools to Have Available for Installation

- Phillips Screwdriver
- Flat Blade Screwdriver
- 5/16 inch & 1/4 inch Hexhead Nutdriver
- Level
- Drill and Drill Bit (#6 - .204)
- 7/16 inch & 1/2 inch Open End Wrench
- Pliers
- Adjustable Wrench
- 1/4 inch Open End Wrench
- Tape Measure

PRE-INSTALLATION



Cut-Out Detail for 1 Unit
Cut-Out Width = "A"



***Cut-Out Detail for 2 Units Placed Side by Side**
Cut-Out Width = "A" + "A" + 1/2"

Model	Cut-Out Width (inches)
18AR	17 1/2
18AF	17 1/2
18TF	17 1/2
18WC	17 1/2
24AR	23 1/2
24AF	23 1/2
24TF	23 1/2
24WC	23 1/2
24BC	23 1/2
242Z	23 1/2
30AR	29 1/2
30AF	29 1/2
30TF	29 1/2
36AR	35 1/2
36AF	35 1/2
36TF	35 1/2
36SS	35 1/2
363D	35 1/2
42SS	41 1/2
48SS	47 1/2
54SS	53 1/2
60SS	59 1/2
66SS	65 1/2
72SS	71 1/2

Floor under product **MUST** be at or above the same level as the surrounding FINISHED floor, for ease of installation and removal.

Electrical: Provide 115 Volt, 60 Cycle, Single Phase, 15 Amp, AC Receptacle. It is recommended that a separate circuit, serving only this appliance, be provided. *Two (2) units side-by-side require separate circuits, except the 60SS and 72SS (see Instruction Sheet 34361-000). Electrical opening should be placed 78 1/2 inches minimum from the floor.

Plumbing: Ice maker water supply line (1/4 inch OD copper tubing) to come up the rear of cut-out opening approximately 78 inches off the floor depending on height adjustment. Tubing should then pass around the right side of the module and around the front to the solenoid valve (see Installation Instructions provided with the unit).

NOTE: Allow for three (3) inch high removable filler panel for easy removal of power module.

Select Location

Locate the refrigerator/freezer in the coolest part of the room, out of direct sunlight and away from heating ducts or registers.

Do not place the refrigerator/freezer next to heat-producing appliances such as a range, oven or dishwasher. If this is not possible, a section of cabinetry or an added layer of insulation between the two (2) appliances will help the refrigerator/freezer operate more efficiently.



IMPORTANT

When installing the water line for the ice maker, be sure to install a SHUT-OFF VALVE at a convenient location between the refrigerator and the supply line.

Required water pressure range is 20 to 120 psi.

Also required is an in-line WATER FILTER between the refrigerator and the supply line to prevent sediment from blocking water flow through the water solenoid valve.

NOTE: Self-piercing water valves and plastic tubing are **NOT** approved for water supply to ice maker.

Electrical Connection

The module comes with a 3-prong power supply cord. It must be plugged into a mating 115 volt, 60 Hz, 15 amp separately fused, 3-prong grounded outlet serving only this product, and wired in accordance with National and Local Electrical Codes and ordinances. A time delay fuse or circuit breaker is recommended. **DO NOT USE AN EXTENSION CORD OR ADAPTER PLUG.**

DO NOT REMOVE THE GROUND PRONG FROM THE POWER SUPPLY CORD UNDER ANY CIRCUMSTANCES!

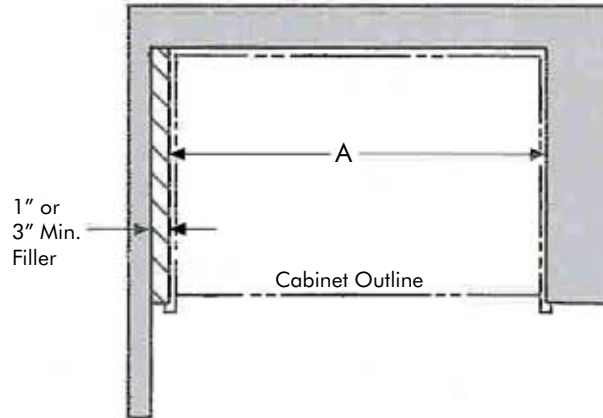
If voltage varies by 10 percent or more, performance of your refrigerator/freezer may be affected. Operating the refrigerator/freezer with insufficient voltage can damage the compressor. Such damage is not covered under your warranty. If you suspect your voltage is high or low, consult your power company for testing.

Do **NOT** pinch, knot, or bend the power cord in any manner.

NEVER unplug the refrigerator/freezer by pulling on the power cord. Always grip the plug firmly and pull straight out from the receptacle. To avoid electrical shock, unplug the refrigerator/freezer before cleaning and before replacing a light bulb.

NOTE: Turning the control to "OFF" turns off the compressor, but does not disconnect power to the light bulb or other electrical components. The unit **MUST** be unplugged or turned off at the circuit breaker.

CORNER INSTALLATION AND INSTALLING TWO UNITS SIDE-BY-SIDE



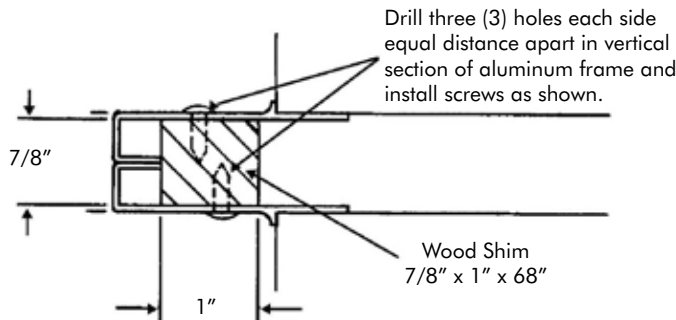
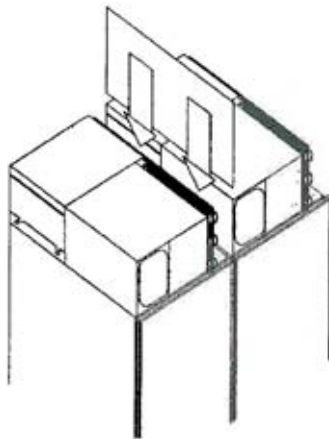
Enclosure must permit refrigerator to be removed for service.

PANEL READY UNITS: For corner installations, a minimum one (1) inch filler must be used as shown above.

ANY UNIT WITH FACE MOUNTED HANDLE: Filler must be three (3) inches minimum.

Installing Two Units Side-By-Side

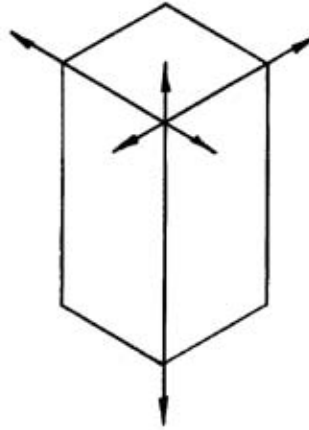
When two (2) units are installed together, a 23 1/2 inch x 12 inch (minimum) divider panel needs to be installed between the two (2) modules (refer to Illustration) with self-tapping screws. The divider panel can be made of any material available, (i.e. 1/32 inch aluminum, 1/8 - 1/4 inch wood paneling), or you can order Kit # 34747-000 from the Northland Service Department. Locate the divider panel approximately one (1) inch down from the top of the cabinet and flush with the back of the cabinet. Drill three (3) pilot holes approximately 1/2 inch up from the bottom of divider panel, through panel, and into cabinet. Secure the panel to the cabinet with three (3) screws using pilot holes previously drilled.



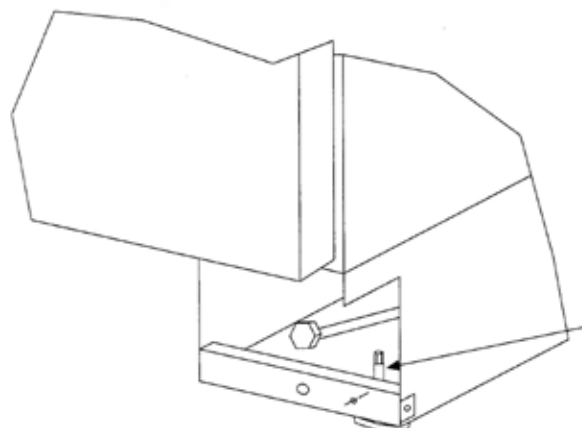
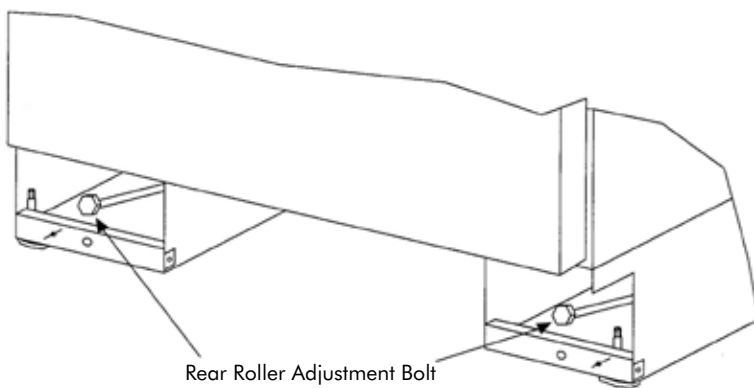
- Install wood shim to one of the cabinets before installing cut-out cavity (not provided).
- After properly installing both cabinets, drill trim and install pan head screws (provided).

LEVELING THE UNIT

NOTE: Unit **MUST** be installed level in all planes, on a floor that is strong enough to support a fully loaded refrigerator/freezer.



This unit is equipped with front and rear rollers. Rollers will aid during installation. Rear rollers are adjustable from the front of the unit. Total adjustment is $+ 5/16$, $- 5/16$. Turn adjusting bolt clockwise to raise cabinet and counterclockwise to lower cabinet. Front leveling legs must be adjusted to the floor for leveling and to prevent the unit from rolling during use.



INSTALLING THE CABINET

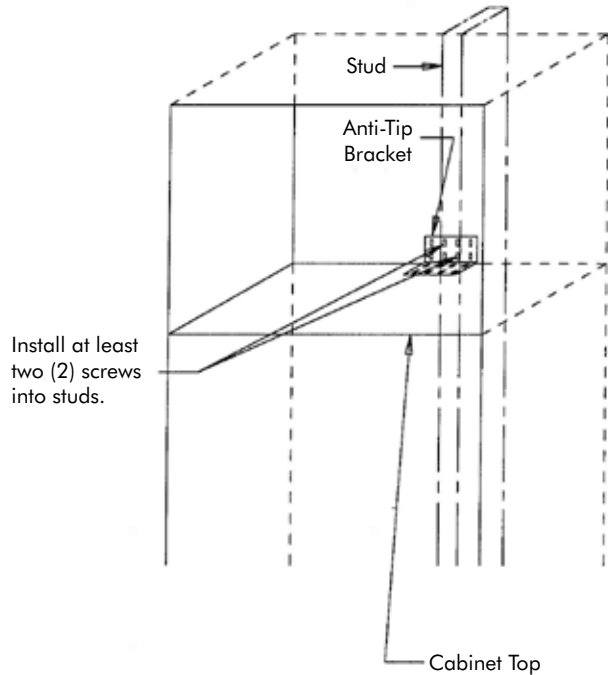
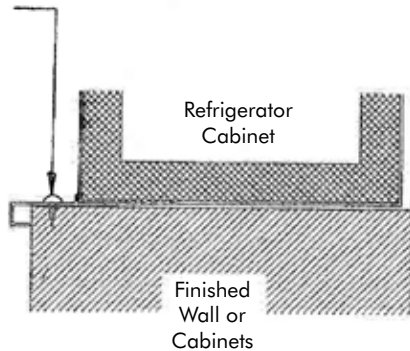
Before placing the cabinet in opening, the depth of the cut-out opening should be at least 24 inches. If the cut-out opening depth is more than 24 inches, then a piece of wood must be secured crosswise on the wall into the studs at the height of the anti-tip bracket. Slide the cabinet into position and level the cabinet with adjustable rear roller and front leveling legs. Locate and mark a center stud in the back of the cut-out opening for the L-shaped anti-tip bracket- (the bracket should fit tight to the top of the cabinet). Install at least two screws through the bracket into the stud located in the wall behind the cabinet. The front leveling legs also prevent the unit from rolling during use. Check fit of toe kick and grille.



IMPORTANT

Drill and screw through the side trim into adjoining cabinets and/or walls for additional support.

Drill three (3) holes equal distance apart in vertical section of aluminum frame and install pan head screws as shown.



Do NOT install anti-tip bracket over the top of the power module.

NOTE: 18 and 24 inch wide models have a full anti-tip bracket across the back of the units. The anti-tip bracket should be attached to the wall.



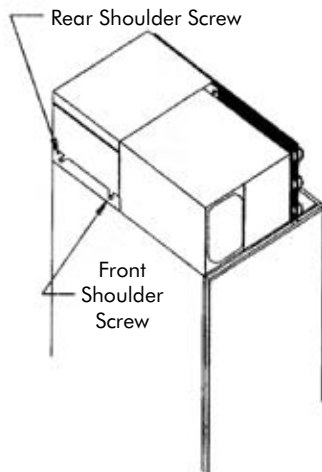
IMPORTANT

Recheck cabinet installation for:

- Proper space left for grille installation.
- Cabinet levelness.
- Door opening and closing appearance.
- SAFETY...To prevent unit from tipping forward:
 - Are screws installed securely through front trim into adjoining cabinetry and/or walls?
 - Is anti-tip mounting bracket secured to wall studs?

After above checks have been made, proceed with refrigeration installation.

INSTALLING THE MODULE



CAUTION

Module NOT fastened to cabinet below. Remove before tipping or transporting.

Place module on top of the cabinet with rear shoulder screws resting on the locator brackets behind the front slots. Slide module toward the rear of the cabinet until the rear shoulder screws engage the slots in the rear of the brackets. Rest the front shoulder screws into the front slots of the brackets.



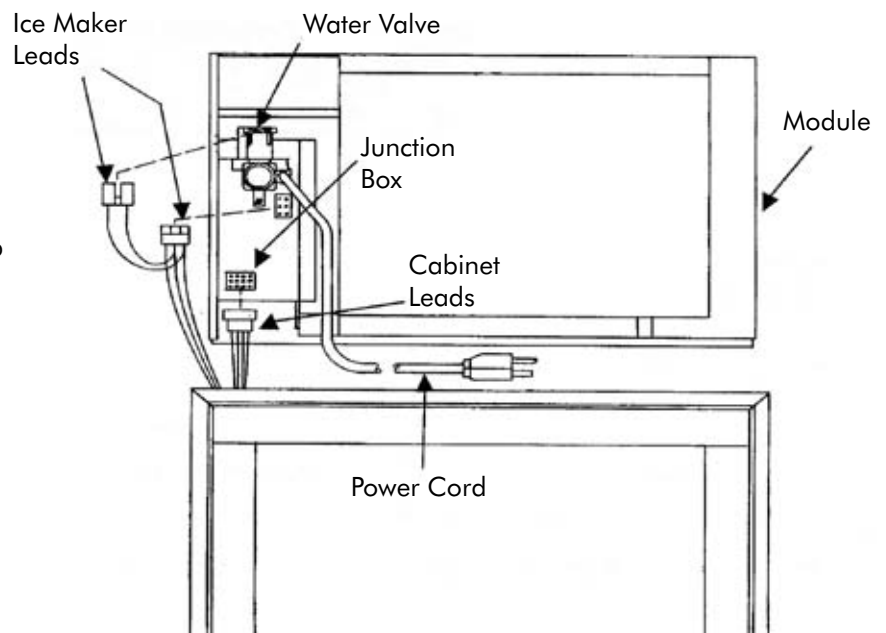
IMPORTANT

Check to make sure wiring and ice maker tubing is clear and not interfering with module seal. Do NOT start product during construction, as dust can block module condenser coils. If dust accumulates on coils, vacuum immediately, using a soft brush attachment.

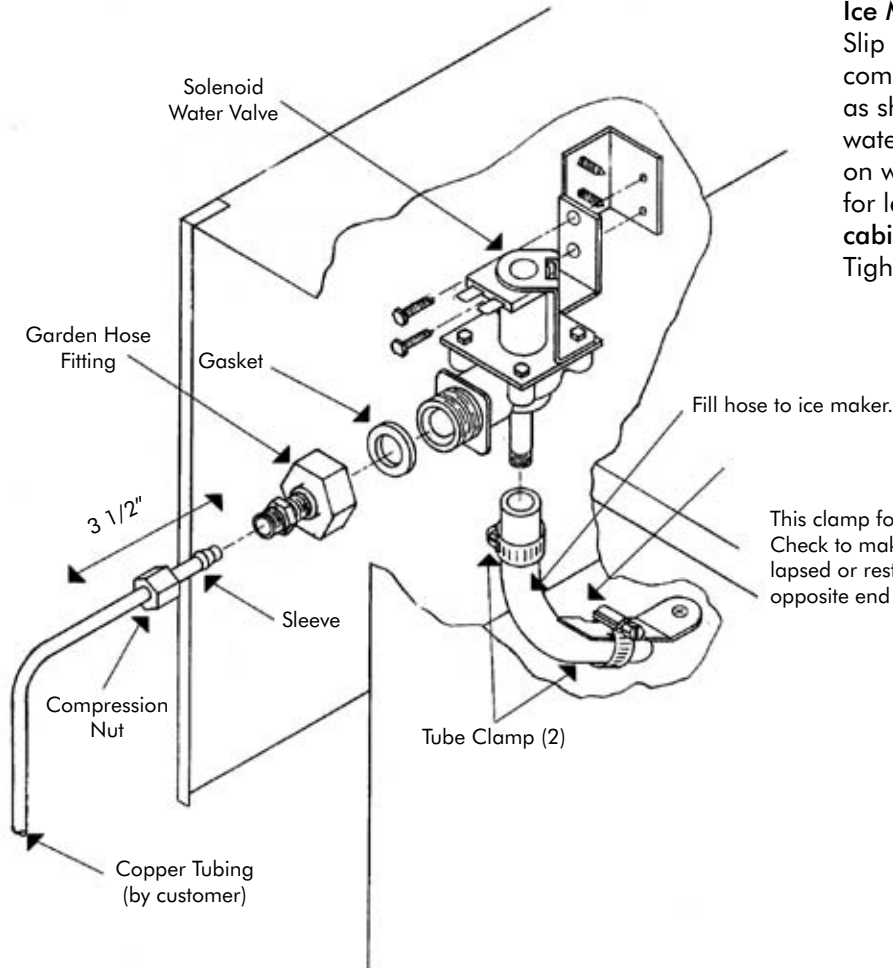
Do NOT operate the refrigerator in the presence of explosive fumes.

Do NOT install the refrigerator where the temperature will drop below 60 degrees F (15 degrees C) or rise above 110 degrees F (43 degrees C). The compressor will NOT be able to maintain proper temperatures.

Make electrical connections from the top of the lower cabinet to the junction box at left side of module. If NO ice maker then only one cabinet line will be protruding. With ice maker, be sure to plug the ice maker line into the module, and the solenoid valve as well. See module diagram on the right.



INSTALLING THE ICE MAKER WATER VALVE

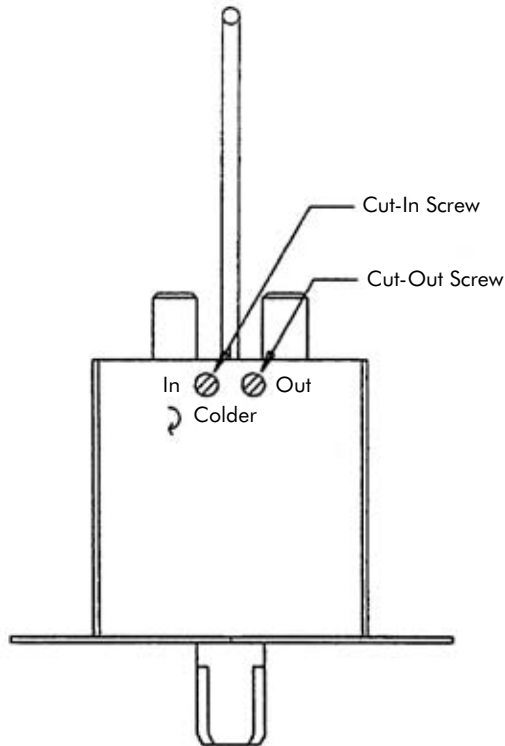


Ice Maker (Solenoid) Connection

Slip solenoid valve compression nut and compression sleeve on copper tubing as shown in diagram. Tighten nut onto water valve with adjustable wrench. Turn on water supply valve. Check fittings for leaks. **Clamp ice maker line from cabinet onto solenoid valve as shown.** Tighten clamp securely.

This clamp for tube positioning only. Check to make sure tube is not collapsed or restricted after connecting opposite end to valve.

ALTITUDE ADJUSTMENT FOR FREEZER/WINE CELLAR TEMPERATURE CONTROL

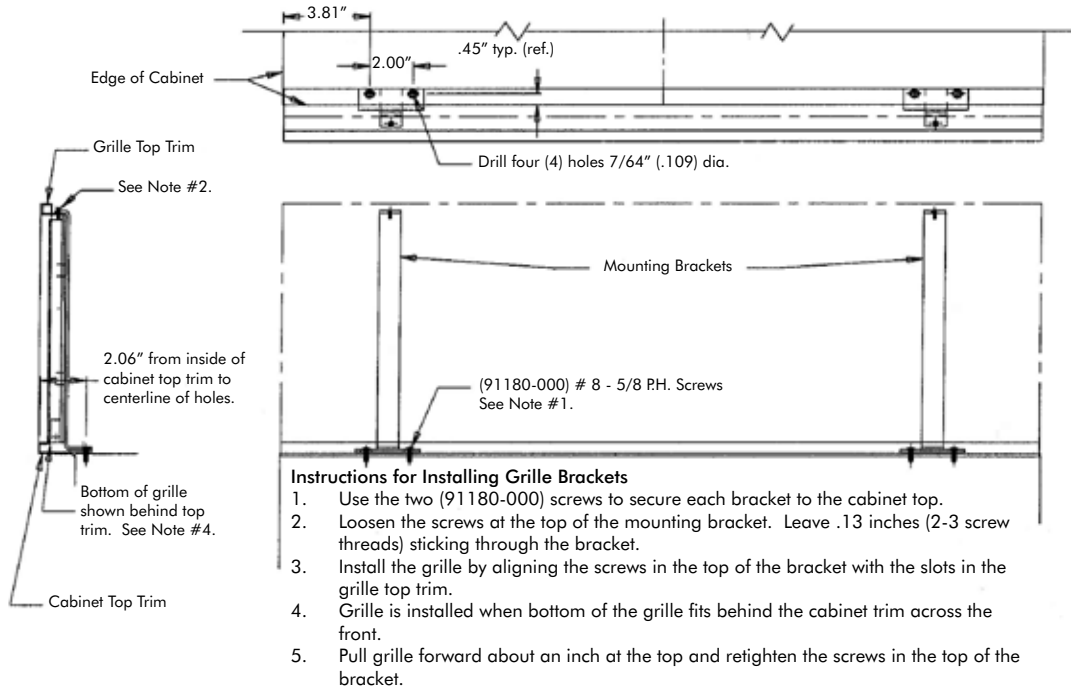


ALTITUDE CORRECTION BOTH CUT-IN & CUT-OUT SCREWS MUST BE ADJUSTED.	
ALTITUDE IN FEET	COUNTERCLOCKWISE TURNS
2,000	$7/60 = .12$
3,000	$13/60 = .22$
4,000	$19/60 = .32$
5,000	$25/60 = .42$
6,000	$31/60 = .52$
7,000	$37/60 = .62$
8,000	$43/60 = .72$
9,000	$49/60 = .82$
10,000	$55/60 = .92$

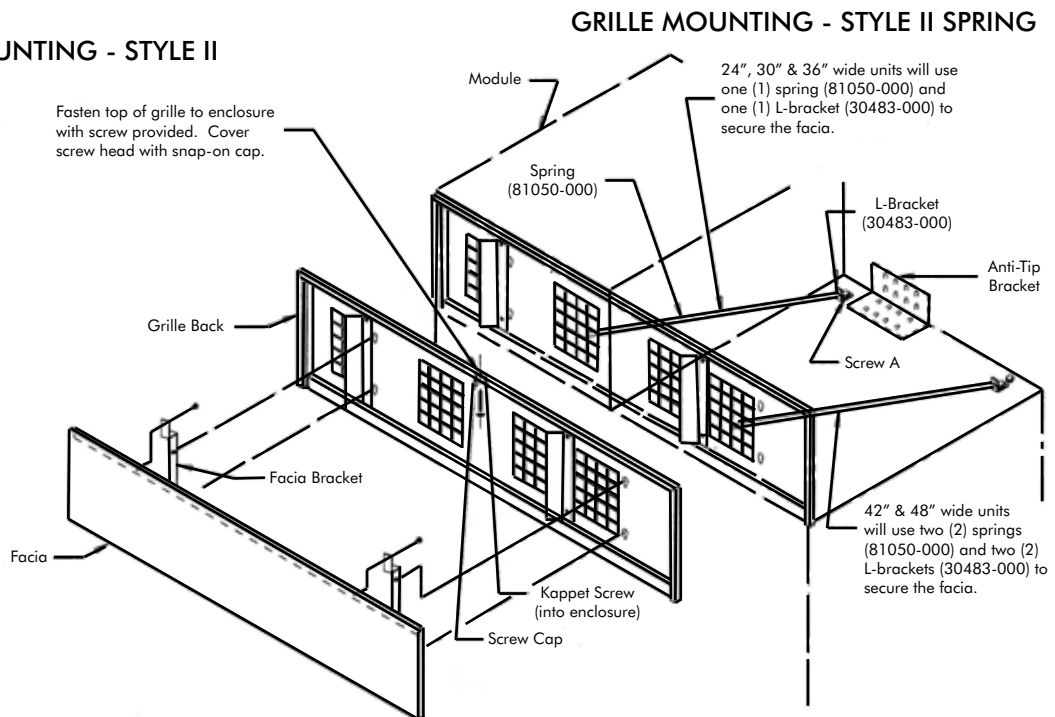
1. Turn off power to refrigerator before servicing.
2. Remove screws holding freezer/wine cellar air return and drop air return grille to expose control assembly.
3. Locate cut-in and cut-out adjustment screws.
4. Determine the altitude of your location and refer to the chart above for the number of counterclockwise turns to adjust the control for proper calibration. **NOTE:** Both cut-in and cut-out screws must be adjusted the same amount. (**NEVER** exceed one full turn or damage to the control may occur.)
5. Reassemble the return air grille and plug in the refrigerator.

INSTALLING THE GRILLE ASSEMBLY

GRILLE MOUNTING - STYLE I BRACKET



GRILLE MOUNTING - STYLE II SCREW



Instructions for Installing Grille Mounting (STYLE III) Spring

1. Remove screw A in mounting bracket. Mount L-bracket with screw A.
2. Hook one end of spring (81050-000) through hole in L-bracket. Holding the facia in position - stretch the spring and secure the hook end to the facia through a square top hole in the facia.

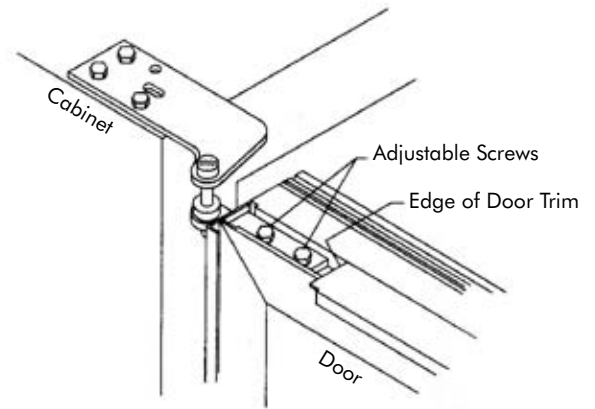
HINGE AND GASKET ADJUSTMENTS AND FACE MOUNTED DOOR HANDLES

Hinge and Gasket Adjustment

It is possible that doors may become out of adjustment in shipment. See diagram on right.

If product is installed slightly "out of level", doors may not line up properly. Check this BEFORE adjusting hinges.

NOTE: Door gaskets occasionally compress in shipment. If gasket does not seal all around, warm slightly with a hair dryer and pull outward softly until magnet in gasket seals against cabinet.



Panel Ready Doors

To expose the concealed door screws, first remove handle trim. Then slide trim over hinge toward handle side. If your unit requires door panels, see "Custom Door Panel" section, on page 14.

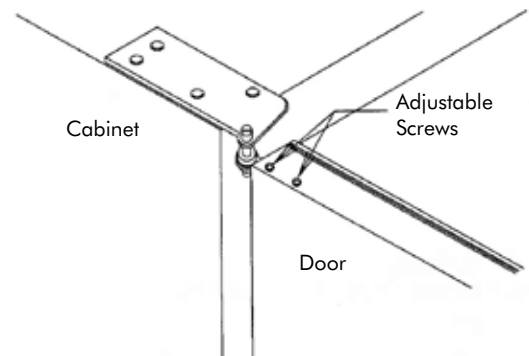
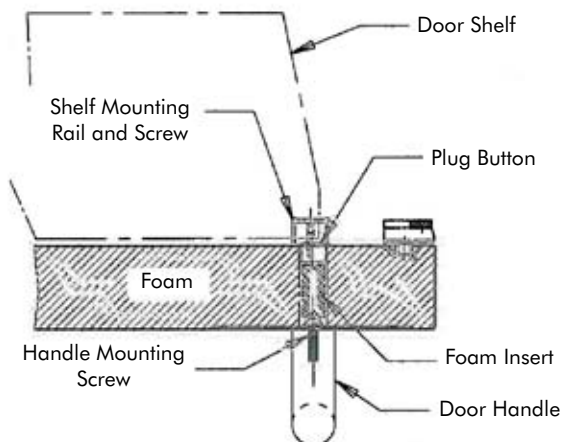
All hinge sections attached to doors, adjust left or right. Top and bottom cabinet hinges are also adjustable in and out.

Change or Tighten Face Mounted Door Handles

1. Open the door - remove the interior door shelves.
2. Remove the screws that secure the shelf mounting rail and the rail.
3. Remove the plug buttons (exposing handle screws) - make sure not to scratch the inner liner.
4. Remove the foam insert to expose the door handle mounting screw.
5. Change handle/tighten screw and replace foam insert, plug button, shelf rail and door shelf.

Stainless Steel Wrap Door Units

To expose concealed door hinge screws, remove plug buttons if present. All hinge sections attached to doors adjust left or right. Top and bottom cabinet hinges are also adjustable in and out. See diagram (shown without cabinet trim).



INSTALLING THE SIDE PANELS AND KICK PLATE

Instructions for Fastening Side Panels to Refrigerator

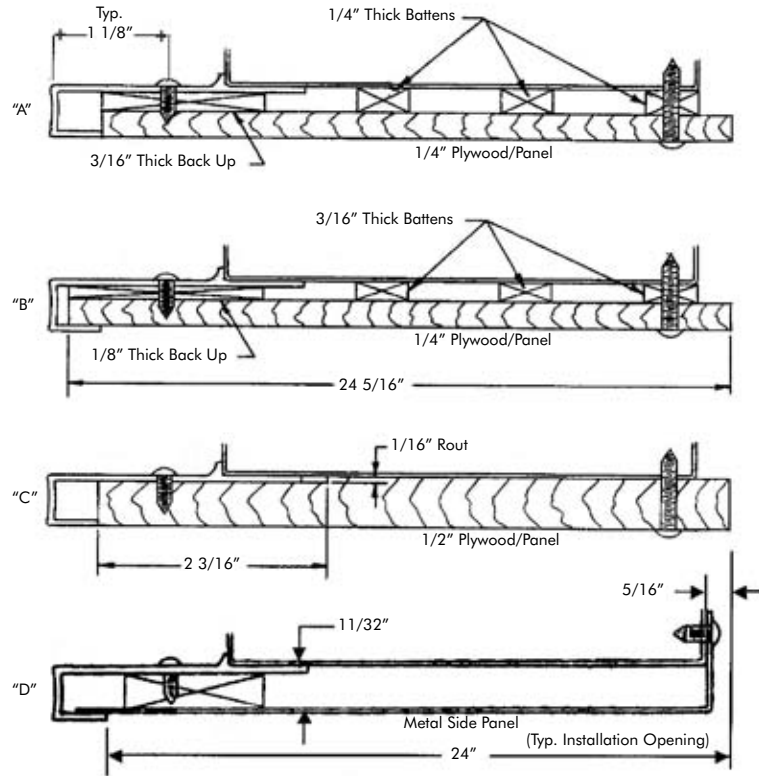
1. Side panels should be 24 inches D (or 24 5/16 inches D when tucked into the front trim).
2. Panel height to match installation height.
3. Install the side panels per drawings on the right.

NOTE: To avoid damage to panels or flooring, raise panels slightly, to clear floor when installing.

Drill three (3) holes equal distance apart in vertical section of aluminum frame and install pan head screws as shown.

Anchor side panel with screw as shown. Be sure screw used goes no more than 1/2 inch deep into product. Do NOT overtighten.

Typical Side Panel Installations

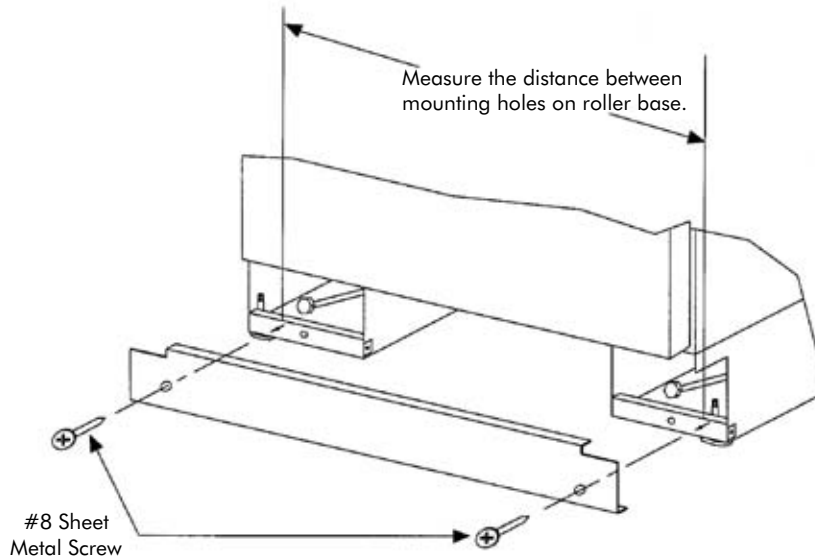


Drill three (3) holes equal distance apart in vertical section of aluminum frame and install # 6 - 3/8 pan head screws as shown (provided).

Attach side panel to cabinet with screws as shown. Screws must not penetrate cabinet more than 1/2 inch.

Kick Plate Installation

Use two (2) #8 sheet metal screws to facilitate holding your kick plate in place. Mount screws in holes in roller base. Notching of upper corners may be required to clear hinges.



CUSTOM DOOR PANELS AND SPECIFICATIONS

The NORTHLAND Panel Ready Built-In design allows you to insert decorative material on the doors of your refrigerator/freezer. If a panel thinner than 1/4 inch is being used, we recommend a filler be inserted behind it for a proper fit, as frames are designed to accept up to a 1/4 inch of material. If a raised panel is used, route edges to fit the frame.



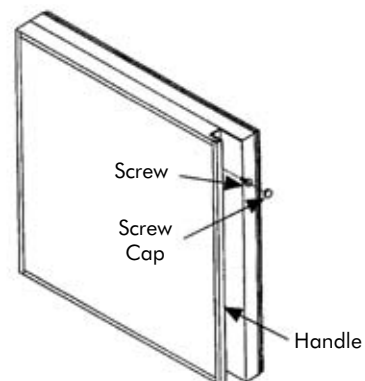
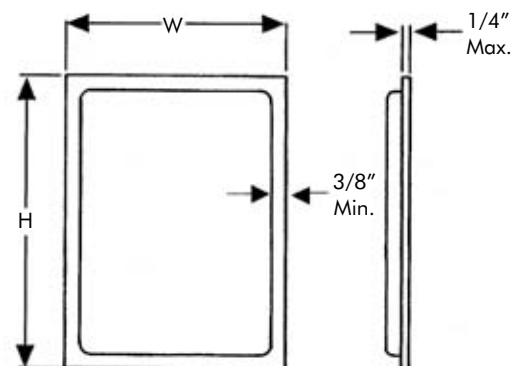
CAUTION

Door panels **MUST NOT** exceed 50 lbs. Do **NOT** use glass, mirrors, granite or similar heavy materials for panels. Panels weighing more than 50 lbs. may cause product damage. We recommend that the door load (panel and food) **NOT** exceed 90 lbs.

For models:

All Refrigerator (AR), All Freezer (AF), Top Freezer (TF), Side-by-Side (SS), and Side-by-Side 3 Door (3D)

Model AR	H	W				
18AR Custom Panel	68"	15 1/2"				
24AR Custom Panel	68"	21 1/2"				
30AR Custom Panel	68"	27 1/2"				
36AR Custom Panel	68"	33 1/2"				
Model AF	H	W				
18AF Custom Panel	68"	15 1/2"				
24AF Custom Panel	68"	21 1/2"				
30AF Custom Panel	68"	27 1/2"				
36AF Custom Panel	68"	33 1/2"				
Model TF	Freezer Door		Refrigerator Door			
	H	W	H	W		
18TF Custom Panel	22 1/4"	15 1/2"	45 1/8"	15 1/2"		
24TF Custom Panel	22 1/4"	21 1/2"	45 1/8"	21 1/2"		
30TF Custom Panel	22 1/4"	27 1/2"	45 1/8"	27 1/2"		
36TF Custom Panel	22 1/4"	33 1/2"	45 1/8"	33 1/2"		
Model SS	Freezer Door		Refrigerator Door			
	H	W	H	W		
36SS Custom Panel	68"	15 1/2"	68"	17"		
42SS Custom Panel	68"	17"	68"	21 1/2"		
48SS Custom Panel	68"	17"	68"	27 1/2"		
60SS Custom Panel	68"	21 1/2"	68"	33 1/2"		
72SS Custom Panel	68"	33 1/2"	68"	33 1/2"		
Model 3D	Freezer Door		Refrigerator Door		Refrigerator Door 2	
	H	W	H	W	H	W
363D Custom Panel	22 1/4"	15 1/2"	68"	17"	45 1/8"	15 1/2"



Removing Protective Film from Factory Installed Decorative Panels

- Cabinets are shipped with protective film over the exterior surface of decorative panels (optional).
- Do **NOT** remove protective film until the cabinet has been completely installed to prevent scratching or marring the decorative panels.
- To remove the protective film, firmly grasp the loose edge of the film and slowly pull the film downward off the decorative panels.
- Decorative panels may be removed if necessary by removing the handle screws and handle and then sliding the decorative panel out of the frame.

CUSTOM GRILLE PANELS AND SPECIFICATIONS

Custom Grille Panels



CAUTION

Grille panels MUST NOT exceed 20 lbs. Panels weighing more than 20 lbs. may cause product damage.

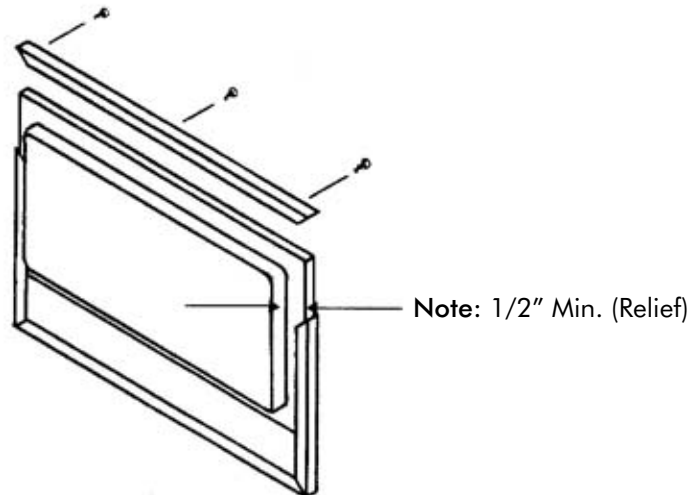
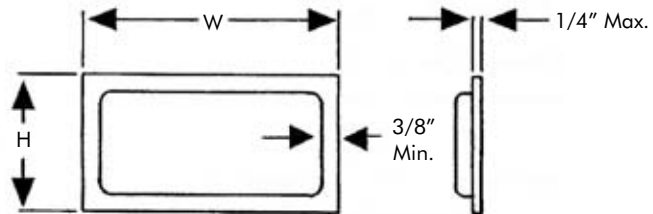
For grille installation refer to page 11, Grille Assembly Installation, and see separate Instruction Sheet, No. 31395-000.

- Remove screws and handle.
- Slide custom panel into position in door trim opening.
- Do ALL doors.
- Do NOT replace handle until hinge and gasket adjustments have been made. See page 12.
- Replace handle and screws and install plastic screw caps provided.

For models:

All Refrigerator (AR), All Freezer (AF), Top Freezer (TF), Side-by-Side (SS), and Side-by-Side 3 Door (3D)

Model AR	H	W
18AR Grille Panel	8 9/16"	14 13/16"
24AR Grille Panel	8 9/16"	20 13/16"
30AR Grille Panel	8 9/16"	26 13/16"
36AR Grille Panel	8 9/16"	32 13/16"
Model AF	H	W
18AF Grille Panel	8 9/16"	14 13/16"
24AF Grille Panel	8 9/16"	20 13/16"
30AF Grille Panel	8 9/16"	26 13/16"
36AF Grille Panel	8 9/16"	32 13/16"
Model TF	H	W
18TF Grille Panel	8 9/16"	14 13/16"
24TF Grille Panel	8 9/16"	20 13/16"
30TF Grille Panel	8 9/16"	26 13/16"
36TF Grille Panel	8 9/16"	32 13/16"
Model SS	H	W
36SS Grille Panel	8 9/16"	32 13/16"
42SS Grille Panel	8 9/16"	38 13/16"
48SS Grille Panel	8 9/16"	44 13/16"
54SS Grille Panel	8 9/16"	50 13/16"
60SS Grille Panel	8 9/16"	56 13/16"
66SS Grille Panel	8 9/16"	62 13/16"
72SS Grille Panel	8 9/16"	68 13/16"
Model 3D	H	W
363D Grille Panel	8 9/16"	32 13/16"



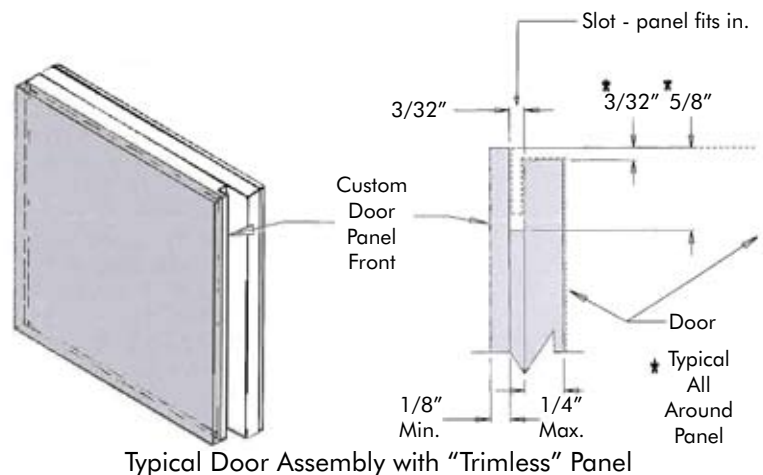
NOTE: All center hinged doors CANNOT exceed 1/2 inch in panel thickness from the door trim face.

TRIMLESS OVERLAY DOOR PANELS AND SPECIFICATIONS

For models:

All Refrigerator (AR), All Freezer (AF), Top Freezer (TF), Side-by-Side (SS), and Side-by-Side 3 Door (3D)

Model 18AR & 18AF	H	W	Model 36TF	H	W	Model 60SS	H	W
Refrigerator or Freezer Overlay Panel	68 1/4"	15 3/4"	Refrigerator Overlay Panel	45 3/8"	33 3/4"	Refrigerator Overlay Panel	68 1/4"	33 3/4"
Refrigerator or Freezer Spacer Panel	66 3/4"	14 1/4"	Refrigerator Spacer Panel	43 7/8"	32 1/4"	Refrigerator Spacer Panel	66 3/4"	32 1/4"
Refrigerator or Freezer Backer Panel	68"	15 1/2"	Refrigerator Backer Panel	45 1/8"	33 1/2"	Refrigerator Backer Panel	68"	33 1/2"
Model 24AR & 24AF	H	W		H	W		H	W
Refrigerator or Freezer Overlay Panel	68 1/4"	21 3/4"	Freezer Overlay Panel	22 1/2"	33 3/4"	Freezer Overlay Panel	68 1/4"	21 3/4"
Refrigerator or Freezer Spacer Panel	66 3/4"	20 1/4"	Freezer Spacer Panel	21"	32 1/4"	Freezer Spacer Panel	66 3/4"	20 1/4"
Refrigerator or Freezer Backer Panel	68"	21 1/2"	Freezer Backer Panel	22 1/4"	33 1/2"	Freezer Backer Panel	68"	21 1/2"
Model 30AR & 30AF	H	W	Model 36SS	H	W	Model 72SS	H	W
Refrigerator or Freezer Overlay Panel	68 1/4"	27 3/4"	Refrigerator Overlay Panel	68 1/4"	17 1/4"	Refrigerator Overlay Panel	68 1/4"	33 3/4"
Refrigerator or Freezer Spacer Panel	66 3/4"	26 1/4"	Refrigerator Spacer Panel	66 3/4"	15 3/4"	Refrigerator Spacer Panel	66 3/4"	32 1/4"
Refrigerator or Freezer Backer Panel	68"	27 1/2"	Refrigerator Backer Panel	68"	17"	Refrigerator Backer Panel	68"	33 1/2"
Model 36AR & 36AF	H	W		H	W		H	W
Refrigerator or Freezer Overlay Panel	68 1/4"	33 3/4"	Freezer Overlay Panel	68 1/4"	15 3/4"	Freezer Overlay Panel	68 1/4"	33 3/4"
Refrigerator or Freezer Spacer Panel	66 3/4"	32 1/4"	Freezer Spacer Panel	66 3/4"	14 1/4"	Freezer Spacer Panel	66 3/4"	32 1/4"
Refrigerator or Freezer Backer Panel	68"	33 1/2"	Freezer Backer Panel	68"	15 1/2"	Freezer Backer Panel	68"	33 1/2"
Model 18TF	H	W	Model 42SS	H	W	Model 363D	H	W
Refrigerator Overlay Panel	45 3/8"	15 3/4"	Refrigerator Overlay Panel	68 1/4"	21 3/4"	Refrigerator 1 Overlay Panel	68 1/4"	17 1/4"
Refrigerator Spacer Panel	43 7/8"	14 1/4"	Refrigerator Spacer Panel	66 3/4"	20 1/4"	Refrigerator 1 Spacer Panel	66 3/4"	15 3/4"
Refrigerator Backer Panel	45 1/8"	15 1/2"	Refrigerator Backer Panel	68"	21 1/2"	Refrigerator 1 Backer Panel	68"	17"
	H	W		H	W		H	W
Freezer Overlay Panel	22 1/2"	15 3/4"	Freezer Overlay Panel	68 1/4"	17 1/4"	Refrigerator 2 Overlay Panel	45 3/8"	15 3/4"
Freezer Spacer Panel	21"	14 1/4"	Freezer Spacer Panel	66 3/4"	15 3/4"	Refrigerator 2 Spacer Panel	43 7/8"	14 1/4"
Freezer Backer Panel	22 1/4"	15 1/2"	Freezer Backer Panel	68"	17"	Refrigerator 2 Backer Panel	45 1/8"	15 1/2"
Model 24TF	H	W	Model 48SS	H	W		H	W
Refrigerator Overlay Panel	45 3/8"	21 3/4"	Refrigerator Overlay Panel	68 1/4"	27 3/4"	Freezer Overlay Panel	22 1/2"	15 3/4"
Refrigerator Spacer Panel	43 7/8"	20 1/4"	Refrigerator Spacer Panel	66 3/4"	26 1/4"	Freezer Spacer Panel	21"	14 1/4"
Refrigerator Backer Panel	45 1/8"	21 1/2"	Refrigerator Backer Panel	68"	27 1/2"	Freezer Backer Panel	22 1/4"	15 1/2"
	H	W		H	W		H	W
Freezer Overlay Panel	22 1/2"	21 3/4"	Freezer Overlay Panel	68 1/4"	17 1/4"			
Freezer Spacer Panel	21"	20 1/4"	Freezer Spacer Panel	66 3/4"	15 3/4"			
Freezer Backer Panel	22 1/4"	21 1/2"	Freezer Backer Panel	68"	17"			
Model 30TF	H	W						
Refrigerator Overlay Panel	45 3/8"	27 3/4"						
Refrigerator Spacer Panel	43 7/8"	26 1/4"						
Refrigerator Backer Panel	45 1/8"	27 1/2"						
	H	W						
Freezer Overlay Panel	22 1/2"	27 3/4"						
Freezer Spacer Panel	21"	26 1/4"						
Freezer Backer Panel	22 1/4"	27 1/2"						



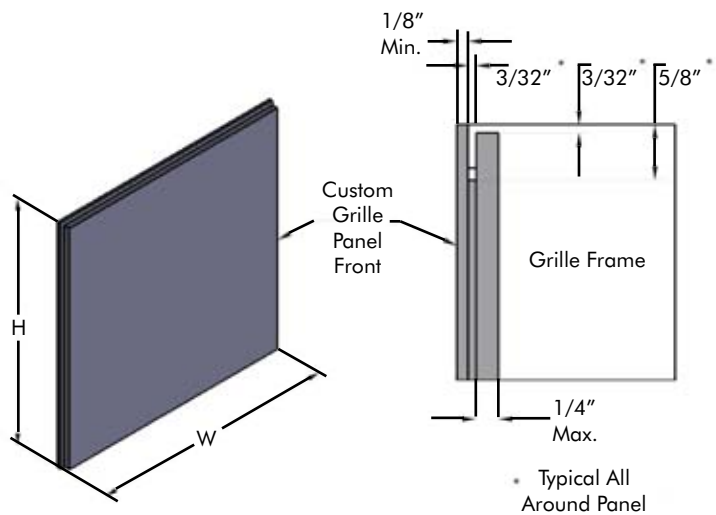
TRIMLESS OVERLAY GRILLE PANELS AND SPECIFICATIONS

For models:

All Refrigerator (AR), All Freezer (AF), Top Freezer (TF), Side-by-Side (SS), and Side-by-Side 3 Door (3D)

Model 18AR & 18AF	H	W
Refrigerator or Freezer Grille Overlay Panel	8 7/8"	15 1/8"
Refrigerator or Freezer Grille Spacer Panel	7 5/16"	13 9/16"
Refrigerator or Freezer Grille Backer Panel	8 9/16"	14 13/16"
Model 24AR & 24AF	H	W
Refrigerator or Freezer Grille Overlay Panel	8 7/8"	21 1/8"
Refrigerator or Freezer Grille Spacer Panel	7 5/16"	19 9/16"
Refrigerator or Freezer Grille Backer Panel	8 9/16"	20 13/16"
Model 30AR & 30AF	H	W
Refrigerator or Freezer Grille Overlay Panel	8 7/8"	27 1/8"
Refrigerator or Freezer Grille Spacer Panel	7 5/16"	25 9/16"
Refrigerator or Freezer Grille Backer Panel	8 9/16"	26 13/16"
Model 36AR & 36AF	H	W
Refrigerator or Freezer Grille Overlay Panel	8 7/8"	33 1/8"
Refrigerator or Freezer Grille Spacer Panel	7 5/16"	31 9/16"
Refrigerator or Freezer Grille Backer Panel	8 9/16"	32 13/16"
Model 18TF	H	W
Top Freezer Grille Overlay Panel	8 7/8"	15 1/8"
Top Freezer Grille Spacer Panel	7 5/16"	13 9/16"
Top Freezer Grille Backer Panel	8 9/16"	14 13/16"
Model 24TF	H	W
Top Freezer Grille Overlay Panel	8 7/8"	21 1/8"
Top Freezer Grille Spacer Panel	7 5/16"	19 9/16"
Top Freezer Grille Backer Panel	8 9/16"	20 13/16"
Model 30TF	H	W
Top Freezer Grille Overlay Panel	8 7/8"	27 1/8"
Top Freezer Grille Spacer Panel	7 5/16"	25 9/16"
Top Freezer Grille Backer Panel	8 9/16"	26 13/16"
Model 36TF	H	W
Top Freezer Grille Overlay Panel	8 7/8"	33 1/8"
Top Freezer Grille Spacer Panel	7 5/16"	31 9/16"
Top Freezer Grille Backer Panel	8 9/16"	32 13/16"
Model 36SS	H	W
Side-by-Side Grille Overlay Panel	8 7/8"	33 1/8"
Side-by-Side Grille Overlay Panel	7 5/16"	31 9/16"
Side-by-Side Grille Overlay Panel	8 9/16"	32 13/16"
Model 363D	H	W
Three Door Grille Overlay Panel	8 7/8"	33 1/8"
Three Door Grille Spacer Panel	7 5/16"	31 9/16"
Three Door Grille Backer Panel	8 9/16"	32 13/16"
Model 42SS	H	W
Side-by-Side Grille Overlay Panel	8 7/8"	39 1/8"
Side-by-Side Grille Overlay Panel	7 5/16"	37 9/16"
Side-by-Side Grille Overlay Panel	8 9/16"	38 13/16"

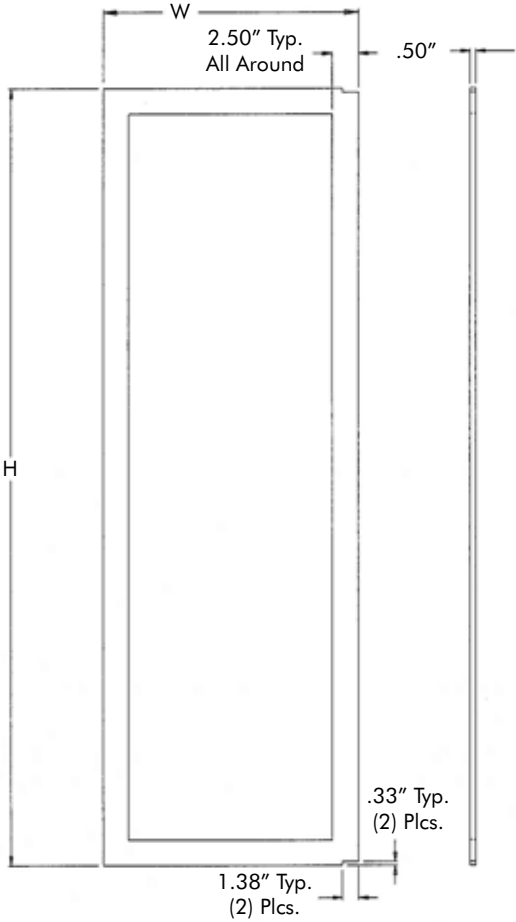
Model 48SS	H	W
Side-by-Side Grille Overlay Panel	8 7/8"	45 1/8"
Side-by-Side Grille Overlay Panel	7 5/16"	43 9/16"
Side-by-Side Grille Overlay Panel	8 9/16"	44 13/16"
Model 54SS	H	W
Side-by-Side Grille Overlay Panel	8 7/8"	51 1/8"
Side-by-Side Grille Overlay Panel	7 5/16"	49 9/16"
Side-by-Side Grille Overlay Panel	8 9/16"	50 13/16"
Model 60SS	H	W
Side-by-Side Grille Overlay Panel	8 7/8"	57 1/8"
Side-by-Side Grille Overlay Panel	7 5/16"	55 9/16"
Side-by-Side Grille Overlay Panel	8 9/16"	56 13/16"
Model 66SS	H	W
Side-by-Side Grille Overlay Panel	8 7/8"	63 1/8"
Side-by-Side Grille Overlay Panel	7 5/16"	61 9/16"
Side-by-Side Grille Overlay Panel	8 9/16"	62 13/16"
Model 72SS	H	W
Side-by-Side Grille Overlay Panel	8 7/8"	69 1/8"
Side-by-Side Grille Overlay Panel	7 5/16"	67 9/16"
Side-by-Side Grille Overlay Panel	8 9/16"	68 13/16"



Typical Grille Assembly with "Trimless" Panel

GLASS PANEL READY WOOD FRAME DOOR SPECIFICATIONS

Model AR	H	W	Frame with Min.
18AR - WGP	68 1/8"	16 1/4"	2 1/2"
18AR - SGP	68 1/8"	16 1/4"	2 1/2"
24AR - WGP	68 1/8"	22 1/4"	2 1/2"
24AR - SGP	68 1/8"	22 1/4"	2 1/2"
30AR - WGP	68 1/8"	28 1/4"	2 1/2"
30AR - SGP	68 1/8"	28 1/4"	2 1/2"
36AR - WGP	68 1/8"	34 1/4"	2 1/2"
36AR - SGP	68 1/8"	34 1/4"	2 1/2"
Model WC	H	W	Frame with Min.
18WC - SGP	68 1/8"	16 1/4"	2 1/2"
24WC - SGP	68 1/8"	22 1/4"	2 1/2"
Model ZZ	H	W	Frame with Min.
24ZZ - SGP	68 1/8"	22 1/4"	2 1/2"
Model BC	H	W	Frame with Min.
24BC - SGP	68 1/8"	22 1/4"	2 1/2"
Model SS	H	W	Frame with Min.
60SS - WGP	68 1/8"	34 1/4"	2 1/2"
60SS - SGP	68 1/8"	34 1/4"	2 1/2"
72SS - WGP	68 1/8"	34 1/4"	2 1/2"
72SS - SGP	68 1/8"	34 1/4"	2 1/2"



INSTALLING A DOOR FRAME TO THE GLASS DOOR

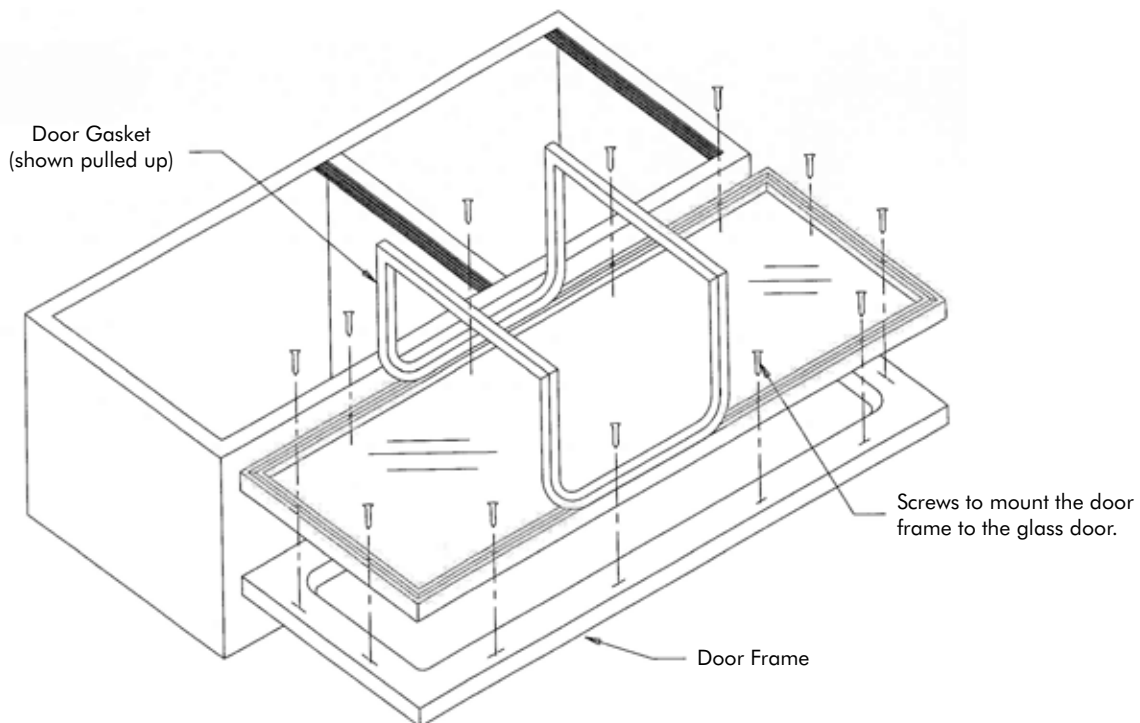
The door frame can be mounted to the glass door with the glass door on or off the unit. The door handle needs to be mounted to the door frame before the frame is mounted to the glass door.

Glass Door On the Unit

1. Lay the unit on its back.
2. Open the glass door 180 degrees and support the glass door during installation.
3. Pull the door gasket back along the top and bottom of the glass door to expose the mounting holes for the door frame. There are twelve (12) total mounting holes on the door - four (4) on each side and two (2) on the top and bottom of the door. Screws will be mounted around the outside diameter of the door on the gasket side.
4. Line up the door frame that is to be mounted to the unit and mark the hole locations on the door frame. Drill 1/8" pilot holes, 1/4" deep to aid during mounting of the door frame.
5. Recommended screws to use to mount the door frame are 1 1/4" long wood screws.
6. After installing the mounting screws, press the door gasket back into the gasket retainer. Make sure the gasket is seated into the corners to retain proper door gasket seal.

Glass Door Off the Unit

1. Remove the four (4) hinge bolts from the door- two (2) at the top and two (2) at the bottom of the door. Retain the two (2) hinge spacers. One (1) at the top and one (1) at the bottom of the door.
2. Lay the glass door on a surface that will protect the door frame during assembly of the frame to the glass door.
3. Complete Steps 3 through 6 as listed in the above section "Glass Door On the Unit".
4. Mount the door to the unit using the hinge spacers and hinge bolts that were removed when taking the glass door off the unit.



INSTALLATION CHECKS/COMMON ERRORS

Installation Checks

- Anti-tip mounting bracket must be installed correctly and anchored to prevent cabinet from tipping forward.
- Module should be engaged in the slots on the module positioning brackets and seated on the foam seal without air gaps. Module positioning brackets should not be removed.
- All wires from the lower cabinet to module must be securely connected. If a problem is suspected, inspect both male and female plugs and insure that the terminals in the plug are sufficiently forward to engage.
- Cabinet must be level both side-to-side and front-to-back. Front leveling legs should rest firmly on the floor. Cabinetry on both sides of the cabinet must be secure and level to prevent the cabinet from shifting when the doors are opened.
- Doors must not hit adjacent walls or countertops.
- Gaskets must seal completely. If gaskets seal well, no further adjustments need to be made.
- On models with ice makers, check water connections for leaks. If water is not yet connected, the plastic water fill tube to the freezer compartment must either be attached to the solenoid or sealed to prevent air leaking into the cabinet.
- Brown and white wires should be connected to the solenoid. The remaining Molex connector plugs into the power module.
- Do NOT overcrowd the shelves or block cold air ducts.
- Do NOT install a refrigerator shelf closer than 8 inches from the interior top.
- Do NOT allow packages to overhang sides or rear of shelves as this will block air circulation, making the refrigerator less efficient.

Common Installation Errors

- Any air leaks between the module and the cabinet will keep the cabinet from operating efficiently.
- The water supply line and electric outlet must be located in a manner that will not interfere with module to cabinet alignment when the unit is pushed into place.
- Power cord to outlet sitting under the power module will create an air leak.
- Ice maker fill tube (plastic) not connected or loose creating a water and/or air leak.
- Plugs from cabinet not connected to the ice maker and/or power module.
- Floor under products lower than finished floor making the unit inaccessible for service. Floor under product must be strong enough to support weight of fully loaded refrigerator.
- Product not anchored properly (to prevent tipping). Bracket not secured to rear wall studs or screws through product side trim into adjoining cabinets or walls.

TROUBLESHOOTING

If product does not start when plugged in, check the following:

1. Does the light bulb go on when the refrigerator door is opened? If NOT, check bulb, then...
 - Is the cord from the lower cabinet plugged into the module?
 - Is the power cord plugged in at the receptacle?
 - Is the circuit breaker or fuse "on"? Check by plugging another electric device into the outlet.
2. If light bulb DID go on when the door was opened...
 - Turn the defrost timer clockwise (might be in "defrost") until compressor starts.
3. If motor "hums", but does not start...
 - Check for adequate line voltage at the outlet.
 - The module may have been transported or stored on its side or upside down, causing temporary displacement of motor oil. Let rest 24 hours, then plug in again.

USE AND CARE GUIDE FOR YOUR REFRIGERATOR/FREEZER

CONGRATULATIONS! You are now the proud owner of a superb, beautiful and durable addition to your kitchen. The following information will help you get the most pleasure from your purchase.

Using your refrigerator...

Cool flowing air keeps your refrigerated foods fresh. Large containers placed close together may restrict the flow of air. Space food so cool air can flow around it.

To retain maximum moisture and flavor, cover containers or seal food in moisture proof wrap. Odorous foods which might affect others should always be covered.

Meat, fish and poultry can be stored safely in the refrigerator section for a few days, but as a general rule, the freezer should be utilized for longer storage.

Vegetables and fruits should be washed, dried and stored in the slide-out crisper. They will last longer in closed plastic containers or wrapped in plastic film.

Cover left-overs and use within a couple of days.

Shelves adjust to many positions, allowing versatile storage and maximum use of space. The adjustable door shelves hold abundant storage, even tall bottles. Firmly lock shelves in place before use.

NOTE: Do NOT block air coming into the refrigerator section. Food or liquids can freeze if placed too close to inlet air.

All refrigerator crispers, and also the freezer basket supplied on the side-by-side models, are designed to be at the very **BOTTOM** of their compartments.

Using your freezer...

Meats, fish and poultry pre-packed in plastic (self-service) wrap can be stored in the freezer for a couple of weeks. For longer freezer storage, wrap food in foil or other vapor-proof, moisture-proof freezer wrap. Frozen food containers should be sealed tightly. If food is wrapped in "Butcher Paper", remove and rewrap.

For more even temperature, space food so as not to restrict air flow, especially at rear.

Light frost may form on shelves when freezer door is open. After the door is closed, the air stream grad-

ually removes the frost.

Varying amounts of frost will form occasionally in the freezer compartment, especially in areas near the top air return. This is normal adjunct of the moist cold air circulating in the refrigerator section to help food stay fresh longer.

If your freezer has an icemaker...

First buckets may contain contamination from new installation. Throw away the first two harvests or until the ice is free of discoloration and taste.

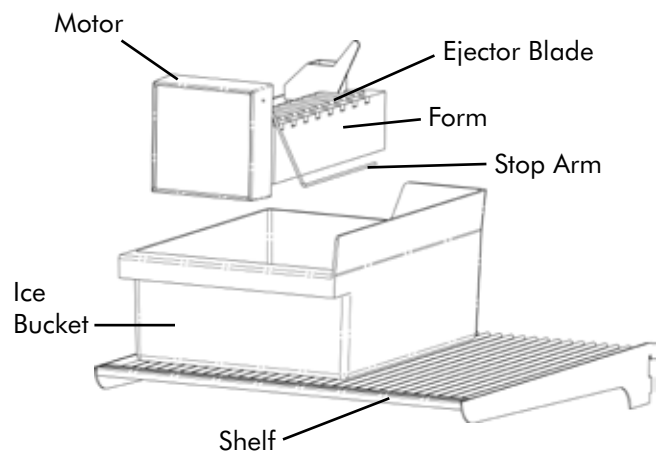
The icemaker makes ice once the freezer is cold. It will turn off automatically when the ice bucket is full, provided the bucket is properly positioned.

Lift the Stop Arm up out of the way when removing and replacing the container.



CAUTION

Never place fingers, foreign objects or food packages near the Ejector Blade.



Typical cycle of icemaker:

1. The icemaker fills with water.
2. When the water freezes, the motor rotates Ejector Blade against the ice. The blade stops when it touches the ice.
3. The heater releases the ice from the form.
4. The motor starts again. The blade moves ice from the form into the bucket. The Ejector Blade makes two (2) revolutions and then the icemaker fills with water again.

USE AND CARE GUIDE FOR YOUR REFRIGERATOR/FREEZER

When the bucket is full and in the proper (highest possible) position, the Stop Arm senses the ice and stops ice making.

To stop the icemaker, whether full or not, simply raise the Stop Arm to "up" position. To restart, lower the Stop Arm.

TIME PER CYCLE... Varies due to door openings, water temperatures, etc.

NORMAL ICEMAKER OPERATION

- Sounds to be expected: motor hum; creaking of the Ejector Blade; ice dropping into the bucket; running water; water supply valve snapping open.
- Frost formations in area of the icemaker: Since fresh water enters the form, frost build-up near the icemaker occurs. This will not affect the operation of your freezer.
- Ice in the bucket for long periods may freeze together and acquire odors. Discard stale pieces... Your icemaker will make more.

Temperatures...

are automatically controlled by thermostats. You may adjust your refrigerator compartment without adversely affecting freezer temperatures, and vice versa. The refrigerator and the freezer compartment each have their own temperature control. The freezer control is located in the roof of the freezer. The refrigerator control is either on the upper left side wall (side-by-side models), or in the roof area of the refrigerator. "3" is a good setting to start out with... Lower numbers for warmer temperatures and higher numbers for coldest temperatures.

NOTE: To help keep food fresh longer, some moisture is desirable in the food storage compartments. You may see it on the walls, or in the form of droplets of ice or "icicles"... especially in hot or humid weather, or when frequent or extended door openings occur. This is normal, and not in any way harmful. If occasional "spot" build-ups occur, it is usually the result of the above, or of "overcrowding" of food. Occasionally remove such accumulation.

Defrosting...

is automatic. It takes place in the Power Module, above and away from your food. For several minutes each day the compressor and interior fan will shut off, while any ice accumulation is removed from the coils.

Cleaning...

It's easy to keep your Built-In refrigerator/freezer clean. Occasionally, clean the interior walls, shelves, door interiors and gaskets with a solution of two (2) teaspoons of baking soda dissolved in a quart of luke-warm water. Harsh abrasives and cleaning powders are unnecessary and should never be used. Do not place parts in the dishwasher.

It is recommended that circuit breakers be shut off before cleaning. Wring excess moisture from sponge or cloth and avoid excess moisture, especially when cleaning in the vicinity of switches, lights or controls.

If your unit has a stainless steel interior, shelves or exterior door then use a stainless steel cleaner and a cloth to clean.

Condenser cleaning procedure...

The condenser is located behind the top grille. It is a part of the Power Module on its very right hand side. It has horizontal tubes with small diameter vertical wires and it is black in color. It is away from floor dust, however, **it should be examined for dust accumulation at least two (2) times a year, and cleaned and/or vacuumed as necessary.** Remember to shut off the circuit breaker before removing the grille and before exposing, cleaning, and/or vacuuming the condenser.

There are three (3) styles of grille assemblies and each one can be removed. Two (2) have removable fascia assemblies and the third one is the louvered grille. The first two (2) grille fascia assemblies can be removed by first, lifting the decorative/stainless steel grille panel up approximately one (1) inch which will free it from the grille back, then place the panel aside. The louvered grille is all one assembly.

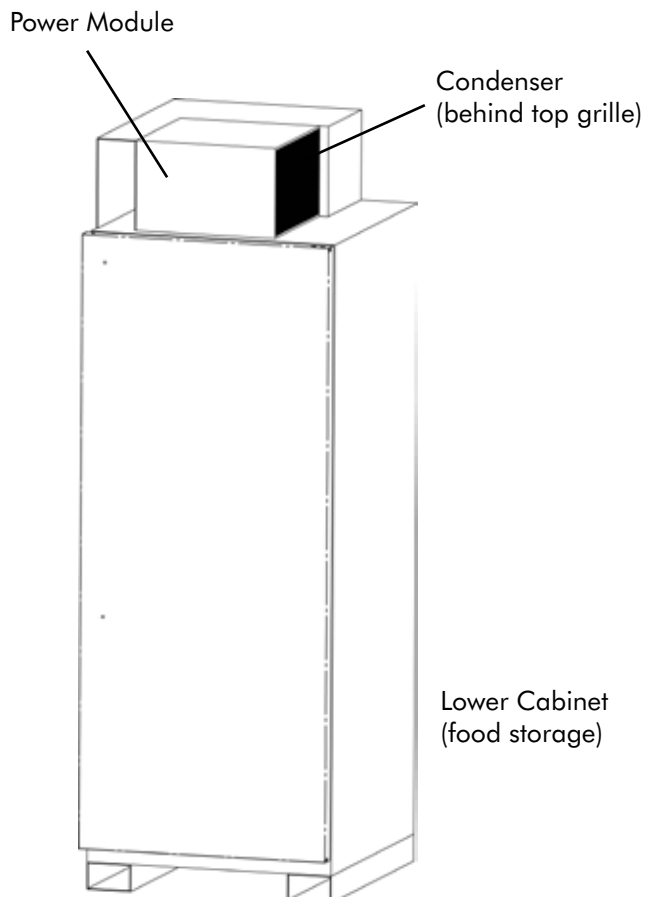
There are three (3) ways to remove the grille back. The first style is with mounting brackets behind the grille back. Pull the grille forward about one (1) inch to expose the the top screw in the brackets. Unscrew the screw to loosen it but do not remove it. Do this to each bracket. **CAUTION**, when the screw is loosened, the grille back will be loose, do not allow it to fall. Grasp the grille back on each side and tilt the top forward and lift upward to free the grille back from its mounting.

USE AND CARE GUIDE FOR YOUR REFRIGERATOR/FREEZER

The second style is with a screw mount. Locate the cap-it screw in the center of the grille back and pry off the plastic cap with a wide flat screw driver, then unscrew the mounting screw. **CAUTION**, when the screw is removed, the grille back will be loose, do not allow it to fall. Grasp the grille back on each side and tilt the top forward and lift upward to free the grille back from its mounting.

The third style of mounting is with springs. The spring(s) are located behind the grille back. The spring(s) are mounted to the top of the cabinet and hook to the square holes in the grille back. To remove the grille, pull the grille forward and reach down to the spring and unhook it from the grille back. The grille back will be free to be removed. The louvered grille is heavy so use care when removing. Now you can inspect the condenser for dust accumulation.

Be sure to refasten top grille after cleaning to avoid injury, as grille could fall if not properly fastened.



Energy Saving Tips...

- Do not open doors more often than necessary.
- Close the doors as soon as possible, particularly in hot, humid weather.
- Be sure the doors are closed tightly.
- Before leaving the house or retiring for the night, check to be sure doors have not been left ajar inadvertently.
- Store only those foods requiring refrigeration in your refrigerator.
- Allow hot foods to cool to room temperature before storing them.
- Keep all foods covered to reduce moisture build-up.
- Do not waste ice cubes by letting many melt while only using a few.
- Do not turn controls colder than needed.

If you need service...

If your unit will not operate correctly then:

1. Take the necessary steps to preserve food. Remove and store at a neighbor's house or other facility if needed.
2. The doors should be kept closed if possible until the unit is back in service.
3. Call your dealer or Service Agency. Please have bill of sale, model and serial number available.

NOTE: Be sure to fully fill out and mail back your registration card without delay. Failure to do so may void your warranty.

WARRANTY

Entire Product - Limited One Year Warranty

NORTHLAND warrants that it will supply all necessary parts and labor to repair or replace in your home, any component which proves to be defective in materials or workmanship, subject to the conditions and exclusions stated below, for the period of one year from date of sale.

Entire Product - Limited Second Year Additional Warranty

During the second year, from date of sale, NORTHLAND will provide all necessary parts only to repair or replace any component which proves to be defective in materials or workmanship, subject to the conditions and exclusions below.

Sealed System - Limited Six Year Additional Warranty

During the second through seventh year, from date of sale, NORTHLAND will supply all necessary parts and labor to repair or replace in your home, any portion of the hermetically sealed refrigeration system, which consists of: the compressor, condenser, evaporator, dryer and all connecting tubing, which proves to be defective in materials or workmanship, subject to the conditions and exclusions below.

Inner Liner - Limited Second Through Tenth Year Warranty

During the second through tenth year, from date of sale, NORTHLAND will provide all necessary parts to repair or replace the refrigerator/freezer inner liner if the paint chips or rusts and proves to be defective in materials or workmanship.

The above warranties do not cover:

1. Customer education or instructions on how to use the refrigerator/freezer.
2. Any food loss due to product failure.

Nor do the above warranties cover failure of this product or its components due to:

3. Transportation or subsequent damages.
4. Use commercially or use other than normal household.
5. Improper installation, misuse, abuse, accident or alteration, use on wiring not conforming to electrical codes, low voltage, failure to provide necessary maintenance or other unreasonable use.
6. Parts or service not supplied or designated by the factory.

The above warranties also do not apply if:

1. The original Bill of Sale, delivery date or serial number cannot be verified.
2. The product is moved from place of original installation.

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No person, firm or corporation is authorized to make any other warranty or assume any other obligation for NORTHLAND. These warranties apply only to products used in any of the fifty states of the United States and the District of Columbia.

To obtain performance of this warranty, report any defects to:

NORTHLAND
P.O. Box 400
Greenville, Michigan 48838-0400

For questions regarding coverage, contact your selling dealer or local distributor.



Northland
P.O. Box 400
Greenville, MI
48838-0400

800.223.3900

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