RECOMMENDED TOOLS AND MATERIALS

Below is a list of tools and materials that should be used during the installation of a Pro Series Unit.

- Phillips screwdriver set
- Slotted screwdriver set
- Copper tubing cutter
- 4' (1219 mm) of 1/4" (6 mm) copper tubing and water line saddle valve.
- Saddle valve for the water line (Part #4200880)
- Level 2' (610 mm) and 4' (1219 mm) are recommended.
- Appliance Dolly - able to support 1,000 lbs (454kg) with proper manpower to handle weight.
- Various sized pliers
- Wrench set
- Allen wrench set
- 1/2" (13 mm) drive socket set, with 10" (254 mm) socket extension.
- Crescent wrenches
- Cordless drill and assorted drill bits
- Masonite, plywood, 1/8" pressed fiberboard or cardboard or some other suitable material for floor protection.
- Moving blankets for protection of product and home.
- 6-Lobe (Torx) drive bits, or 6-Lobe screwdrivers (Sizes: T-10, T-15, T-20, T-25)

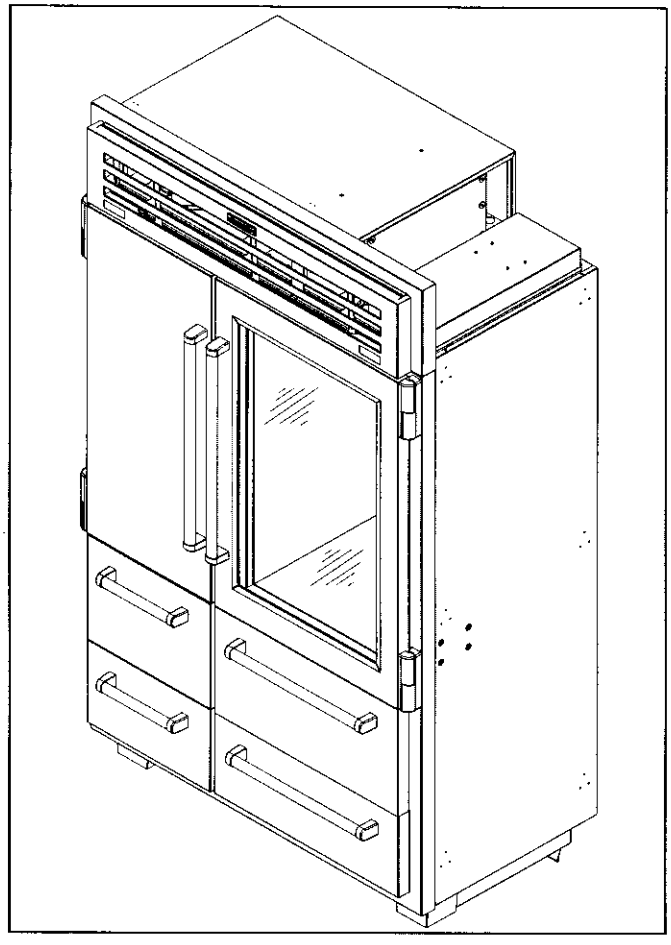


Figure 2-1.

UNIT DIMENSIONAL INFORMATION

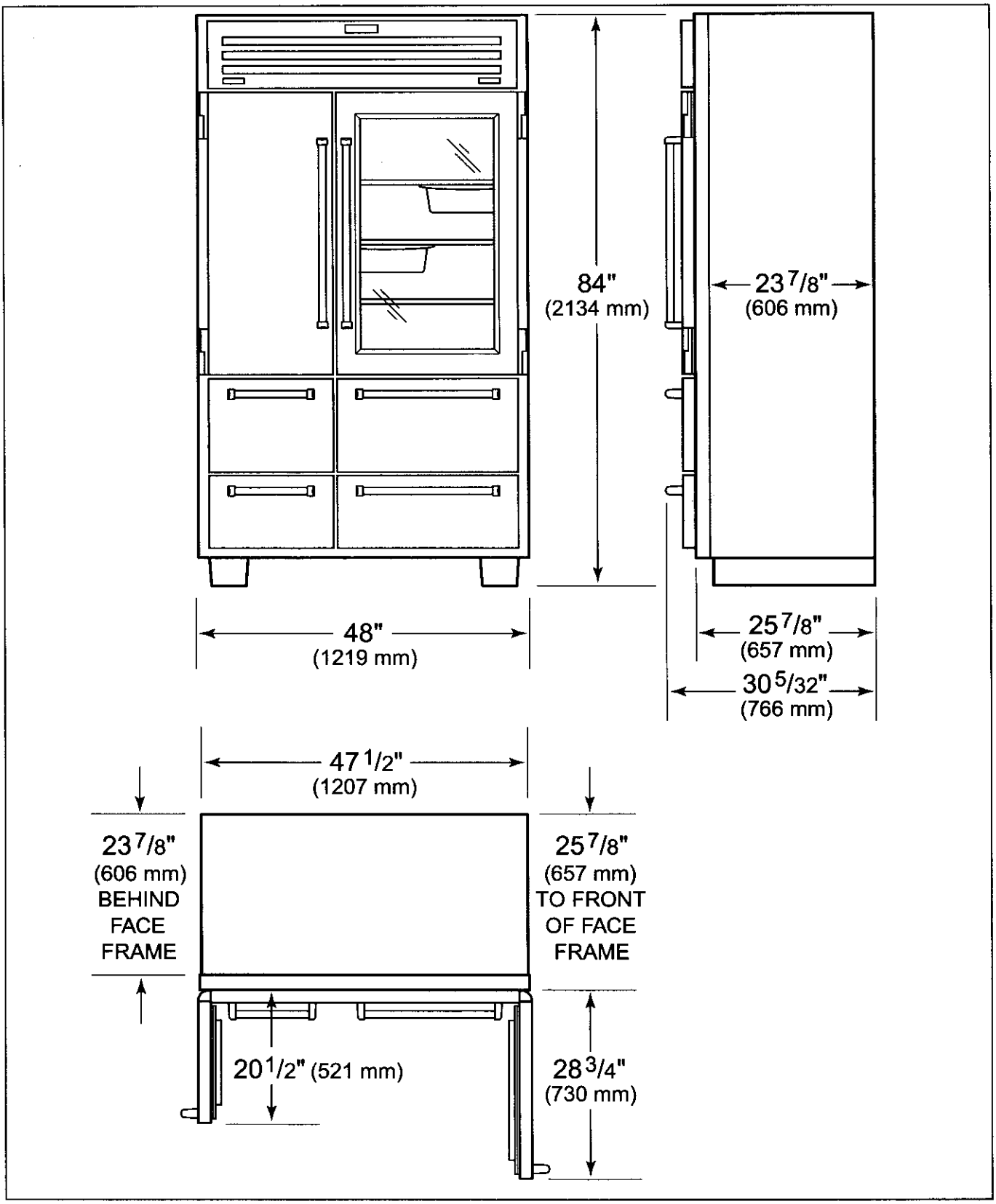


Figure 2-2. Front, Side and Top View

PRE-INSTALLATION SPECIFICATIONS

Preparing the Space

NOTE: *Make sure floor under appliance is level with surrounding finished floor. Protect finished floor with masonite, plywood, 1/8" (3 mm) pressed fiberboard, or some other suitable material before moving the appliance across it.*

Electrical Requirements

To rough in the electrical outlet following the Pre-Installation Specifications. You will need a 115 Volt, 60 Hertz electrical supply, with a dedicated 15 Amp fuse / circuit breaker. Also be sure to follow any local codes that apply.

The appliance comes with a three-prong grounded plug power supply cord. The appliance must be plugged into a mating three-prong wall receptacle grounded in accordance with the National Electrical Code and local codes.

Plumbing Requirements

The unit has an automatic ice maker with a water filtration system, which operates on water pressure between 35 psi (2.4 bar) and 120 psi (8.3 bar). If the filtration system is bypassed, water pressure must be maintained between 20 psi (1.4 bar) and 120 psi (8.3 bar).

Rough in the water supply using 1/4" OD copper tube. The water line should be routed up through the floor within 1/2" (13 mm) from back wall and no higher than 3" (76 mm) off the floor. If coming through the wall, make sure the water line is no more than 3" (76 mm) from the floor. Regardless of the routing, allow 3' (914 mm) excess copper tubing outside the wall or floor for easy connection to the unit.

Locate water supply line within shaded area indicated in the Pre-Installation Specifications diagram.

Use an easily accessible shut-off valve between the water supply and unit. Do not use self-piercing valves. A saddle valve kit (part #4200880) is available from a Sub-Zero dealer.

It is <u>not</u> recommended that the appliance be connected to a softened water supply. Chemicals, such as salt from a malfunctioning softener, can damage the ice maker and lead to poor ice quality. If a softened water supply cannot be avoided, be sure the softener is well maintained and operating properly.

NOTE: *Do not use with water that is microbiologically unsafe or of unknown water quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.*

NOTE: *Installations must meet local plumbing code requirements.*

NOTE: *A reverse osmosis system can be used, if there is constant water pressure of 20 psi (1.4 bar) to 120 psi (8.3 bar) supplied to the unit at all times. In this application, the integrated water filtration system must be set to bypass mode.*

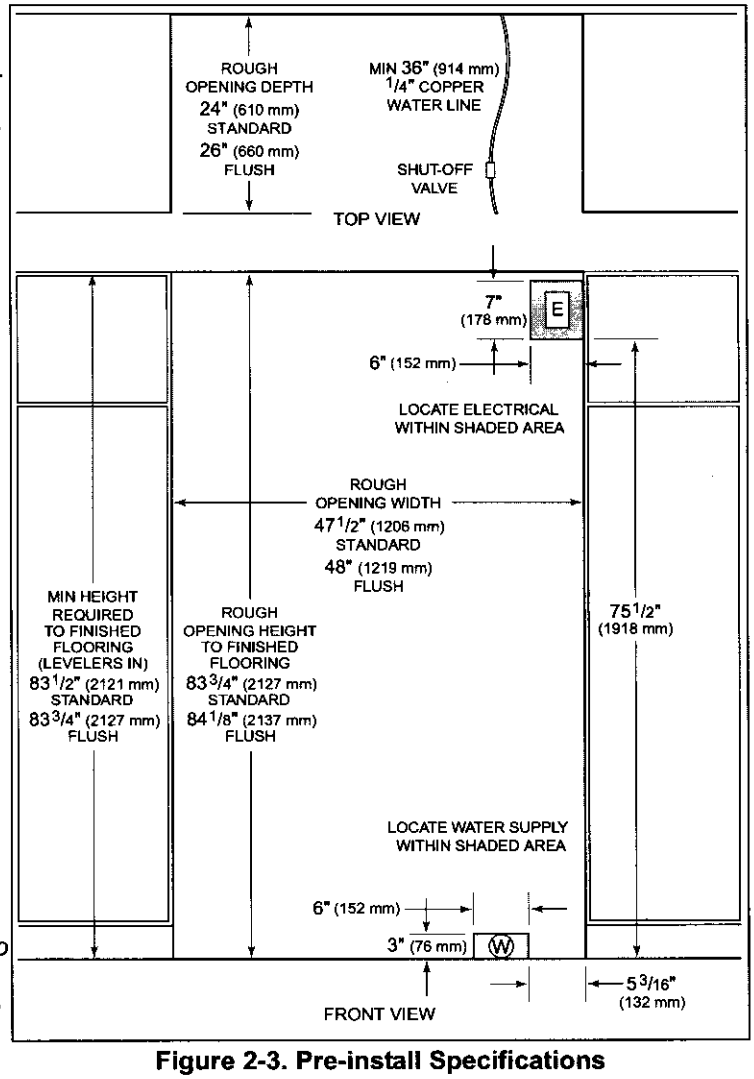


Figure 2-3. Pre-install Specifications

MOVING THE APPLIANCE

After uncrating the unit, do not discard the kickplate that is taped to the side of the refrigerator. Do not discard the Anti-Tip Kit or hardware, you will need them to block the installation.

Carefully move the unit from the crate base onto an appliance dolly. Tip to one side removing styrene pads under unit. Tip back onto appliance dolly. Retract leveling legs to their uppermost position for easy movement of the unit while installing. Remember this unit is very heavy (900lbs/408kg) and enough manpower should be used when attempting to move this equipment.

⚠ WARNING

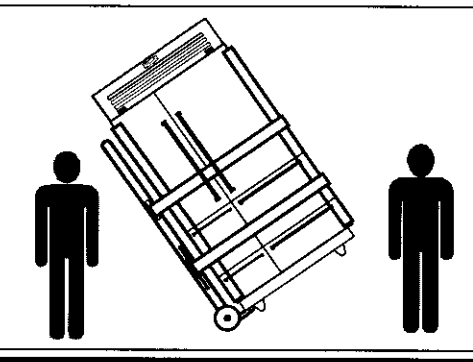
Product is very heavy (900 lbs/408kg) keep door(s) and drawer(s) closed while moving unit and use enough manpower to safely move unit.

Protect the Flooring

Make sure the floor under the refrigerator is level with the surrounding finished floor. Pushing the unit with front leveling legs down will cause damage to the floor. Make sure the leveling legs are in the uppermost position prior to moving the product. Protect a finished floor with masonite, plywood, 1/8"(3) pressed fiberboard or some other suitable material before moving the refrigerator across it.

⚠ CAUTION

Protect any finished flooring before moving the unit in place. This Sub-Zero product is equipped with rollers, so it can be easily moved into place. If for any reason the unit has been laid on its back side, you must allow the unit to stand upright for a minimum of 24 hours before connecting power.



⚠ CAUTION

When using appliance dolly, make sure the strapping is underneath the door handles and either underneath or over the top of drawer handles. Use enclosed corner protectors to avoid damage to stainless steel. Do not cut corner protectors when unpacking the product.

Removing the Grille

In order to prevent damage to the grille, the top grille assembly should be removed prior to moving the unit.

To remove the grille assembly, pull out on the bottom edge of the grille and tilt the grille frame forward (See Figure 2-4). Disconnect the low-voltage cable which connects the User Displays on the grille to the Technician Display Module, and cut the two white cable ties which attach the network cable to the right grille support. These cables ties should be replaced once the unit is properly installed with the extra cable ties provided. Remove the three 7/16" bolts from base of the grille. Remove the screw from the upper grille area and remove the grille assembly.

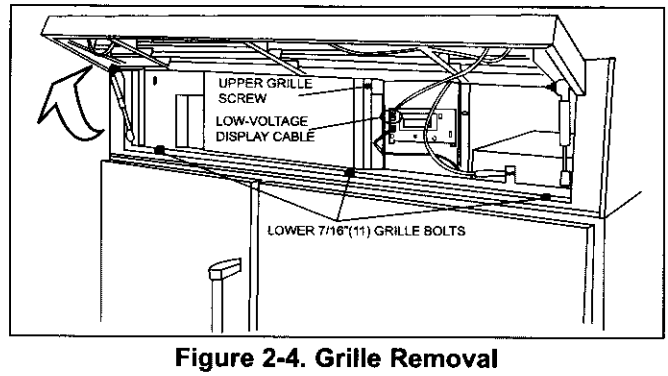


Figure 2-4. Grille Removal

INSTALLATION CONSIDERATIONS

This section covers common installation issues seen by Service Technicians. Improper installation, though not a valid service issue, has the potential to lead to a call for service.

NOTE: *If additional information is needed, refer to the complete Installation Guide.*

⚠ WARNING

- **IF UNIT IS UNDER A SOLID SOFFIT AND CLEARANCE BETWEEN TOP OF UNIT AND SOFFIT IS GREATER THEN 1" (25.4 mm), OR IF SOFFIT IS NOT SOLID, UNIT COULD TIP FORWARD UNDER CERTAIN LOAD CONDITIONS. FAILURE TO INSTALL ANTI-TIP COMPONENTS AND EXTEND LEVELERS TO FLOOR ACCORDING TO INSTALLATION MANUAL COULD RESULT IN SERIOUS INJURY OR DEATH.**
- **MAKE SURE THERE ARE NO ELECTRICAL WIRES OR PLUMBING THAT THE SCREWS CAN COME INTO CONTACT WITH.**

⚠ CAUTION

- **Always wear safety glasses and other necessary protective devices or apparel when installing or working with anchors.**
- **Not recommended for use in light-weight masonry material such as block or brick. Use of core drills not recommended to drill holes for this anchor. Not recommended for use in new concrete which has not had sufficient time to cure.**

Anti-Tip Components Installation (See Figures 2-5, 2-6 and 2-7)

NOTE: *The anti-tip bracket is included and fastened to crate base at the front of the unit.*

NOTE: *Use the center line reference point on the anti-tip bracket to assure proper alignment and engagement of the product to the anti-tip bracket.*

1. Install anti-tip bracket exactly 26"(660 mm) from front face frame, centered in the rough opening.

   NOTE: *The 26"(660 mm) measurement is from the front face frame to the back of the anti-tip bracket.*

2. Drill 6 pilot holes 3/16"(5 mm) diameter maximum for mounting anti-tip bracket to the floor.
3. Drill 6 pilot holes 3/16"(5 mm) diameter maximum, for mounting anti-tip bracket to wall a minimum of 3/4"(19 mm) into the wall plate.
4. Install twelve 12 x 2-1/2" (64 mm) wood screws and twelve 1/4"(6 mm) flat washers.

   NOTE: *If screws do not hit a wall stud in any of the upper holes of anti-tip bracket, use the provided #8 x 1-1/4"(32 mm) wood screw, 1/4"(6.1 mm) flat washer and a nylon zip-it wall anchor.*

   NOTE: *For concrete floors use three 3/8 X 3-3/4" (10 mm x 95 mm) concrete wedge anchors to secure anti-tip bracket to floor. Use six #12 x 2-1/2"(64 mm) wood screws, and six 1/4"(6 mm) flat washers to secure anti-tip bracket to wall.*

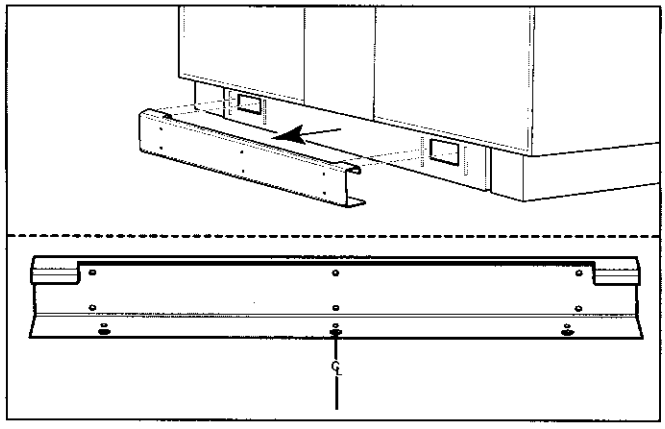


Figure 2-5. Center Line Reference

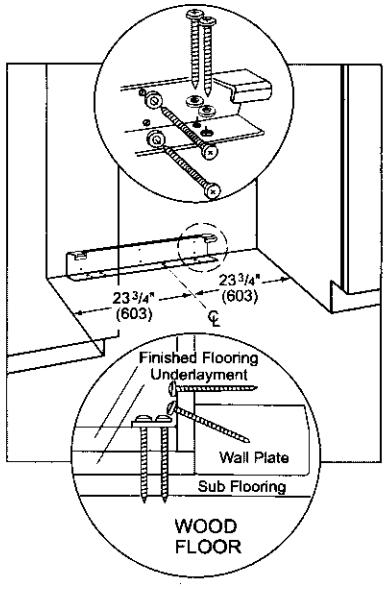


Figure 2-6. Anti-Tip, Wood Floor Mounting

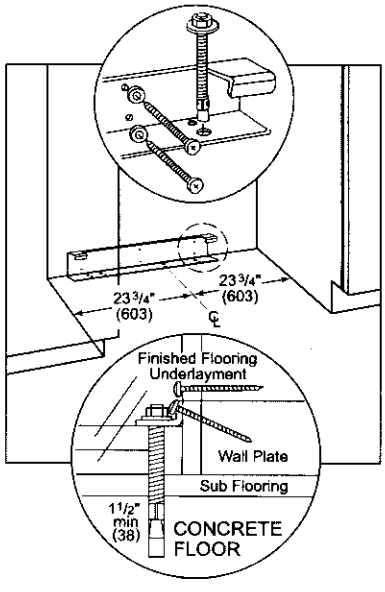


Figure 2-7. Anti-Tip, Concrete Floor Mounting

Unit Leveling (All Models)

NOTE: *The rear levelers must be in their lowest position before unit is installed. Unit must be installed before final leveling. If unit is anchored to cabinets, remove anchor screws before leveling, reinstall after leveling.*

1. To level unit, first remove kickplate (See Figure 2-8).
2. To raise unit front, turn front leveler legs clockwise to raise, counterclockwise to lower (See Figure 2-9).
3. Rear adjustment can be completed from the front of unit through unit base. To raise unit rear, use 3/8" (10 mm) socket wrench with an extension to turn rear leveling bolt clockwise to raise, counterclockwise to lower (See Figure 2-9).

NOTE: *Level is best checked at top & side of mainframe.*

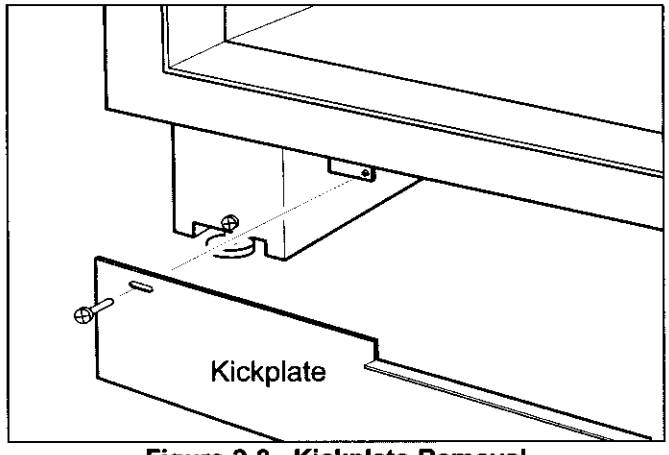


Figure 2-8. Kickplate Removal

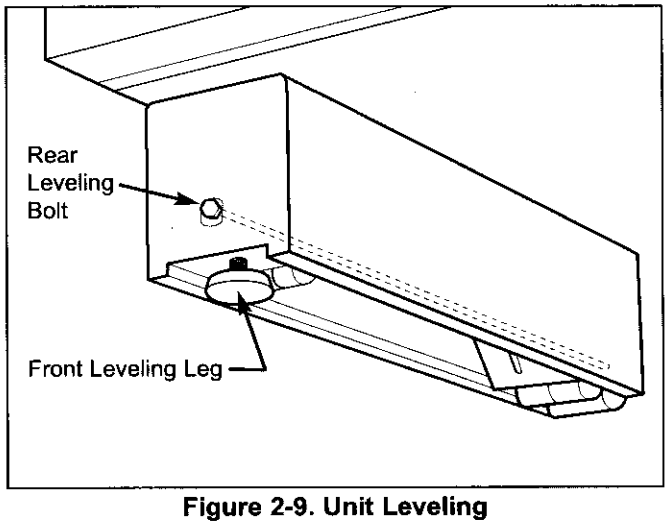


Figure 2-9. Unit Leveling

Door Adjustment

NOTE: *Unit must be level before adjusting doors.*

⚠ CAUTION

When adjusting hinges it is important to keep hinges parallel to the face of the door and side of the cabinet. Excessive misalignment will result in door switch malfunction. If switch is not activated the fan will not operate and lights will remain on. This will result in elevated cabinet temperatures. After hinge adjustments are made, check for proper functioning of door switch.

If unit is properly installed, blocked and leveled, it may still be necessary to adjust door(s) left to right. Adjustments are performed at top and/or bottom cabinet hinge(s).

1. Open the vent portion of the top grille.
2. Open door to about 90 degrees and lift door off the cabinet hinge assembly (See Figure 2-10).

⚠ CAUTION

Doors are very heavy. Use care and caution when removing them.

3. Remove hinge pins (See Figure 2-12).
4. Loosen the two cabinet hinge screws 1/4 to 1/2 turn (See Figure 2-12).
5. Reinstall hinge pin and door. With door open, use an Allen wrench, and turn adjustment screw to adjust cabinet hinge (See Figure 2-16).
6. Close door to check alignment.

   NOTE: *If addition adjustment is required repeat steps above.*

Figure 2-10. Door Removal

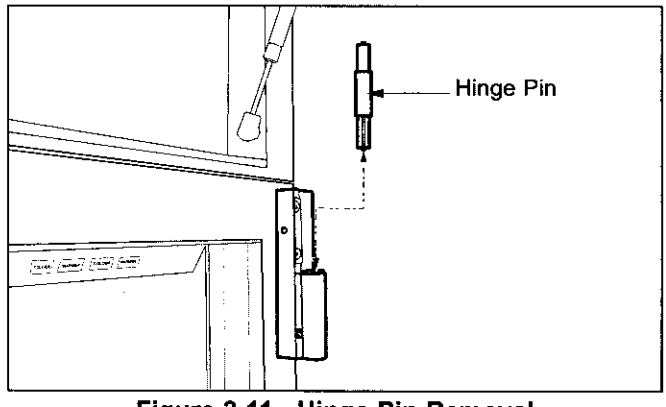


Figure 2-11. Hinge Pin Removal

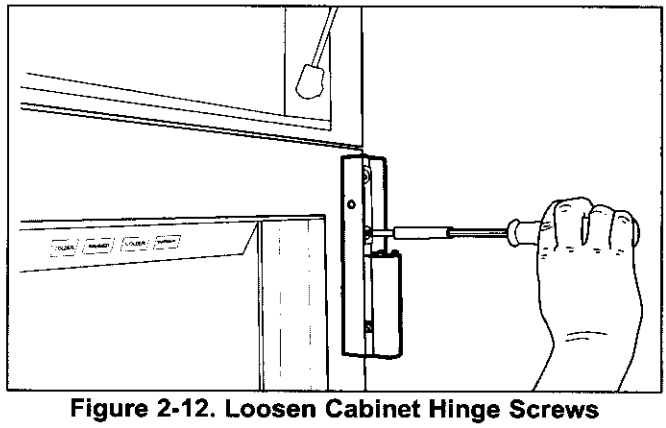


Figure 2-12. Loosen Cabinet Hinge Screws

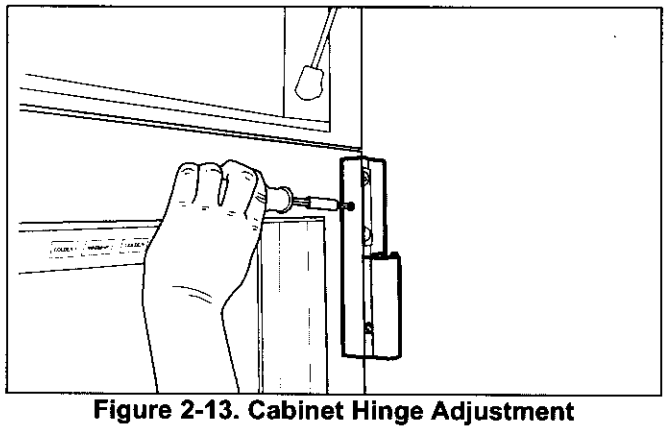


Figure 2-13. Cabinet Hinge Adjustment

Drawer Adjustments

Vertical Drawer Adjustment:

NOTE: *Before attempting drawer adjustment, remove drawer assembly. Pull drawer assembly out, then lift at front and pull forward until drawer is free from unit. (See Figure 2-14)*

1. Loosen drawer slide mounting screws. (See Figure 2-15)
2. Using a 7/16" (11 mm) open end wrench, turn adjustment screw until proper alignment is obtained. (See Figure 2-15).
3. After adjustment, tighten all screws, reinstall drawer assembly, then check door seal for proper gasket seating.

NOTE: *Assure the drawer is fully engaged onto the tracks. Check alignment of the drawer closer. If the closer catch does not align with closer pin adjust the location of drawer closer.*

Horizontal Drawer Adjustment:

NOTE: *Before attempting drawer adjustment, remove drawer assembly. Pull drawer assembly out, then lift at front and pull forward until drawer is free from unit. (See Figure 2-14)*

1. Loosen screws on the front two slide assemblies. (See Figure 2-16)
2. Move adjust blocks to desired location and tighten screws. (See Figure 2-16).
3. Release rear adjust block by disengaging snaps.
4. Move the block forward to shift drawer to the right, and back to move to the left. Each position will move the drawer .030" (.8 mm) (See Figure 2-16).

   NOTE: *Both sides should be moved in the same direction.*
5. Snap the block over the pins located on the rear adjuster. (See Figure 2-16)
6. After adjustment, tighten all screws, reinstall drawer assembly, then check door seal for proper gasket seating.

NOTE: *Assure the drawer is fully engaged onto the tracks. Check alignment of the drawer closer. If the closer catch does not align with the closer pin adjust the location of the closer.*

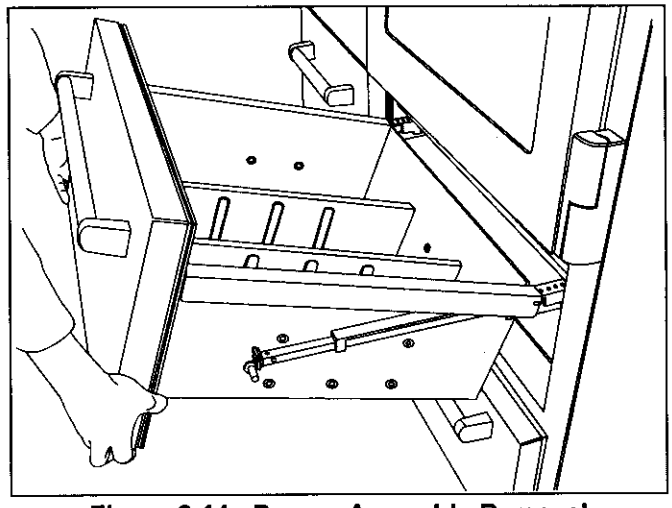


Figure 2-14. Drawer Assembly Removal

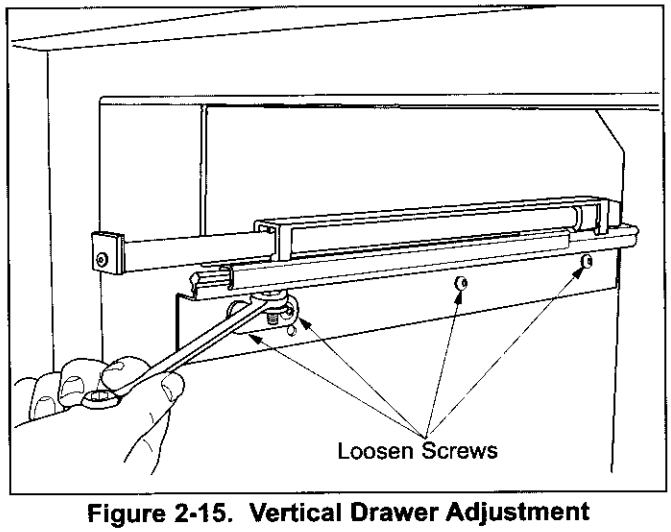


Figure 2-15. Vertical Drawer Adjustment

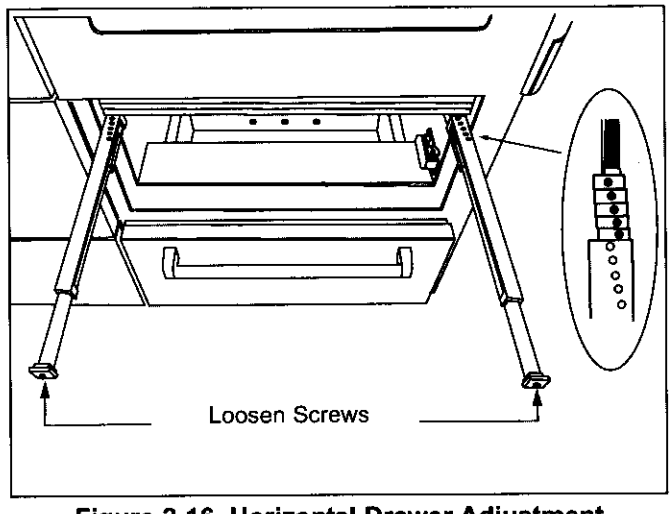


Figure 2-16. Horizontal Drawer Adjustment

Water Filter Bypass

If choosing not to use the water filtration system, the system can be bypassed by removing the water filter cartridge. If done, the water supplied to the ice maker will not be filtered and the electronically controlled water filter monitor will be deactivated.

Lift the grille to access the water filter cartridge by pulling out on the bottom edge of the grille, then tilt the grille frame forward (See Figure 2-17).

Slowly rotate the water filter cartridge 1/4 turn counter-clockwise to disengage. Gently twist until the cartridge is free from the base, DO NOT pull (See Figure 2-18). There will be water in the filter cartridge, so it is normal for a small amount of water to spill out.

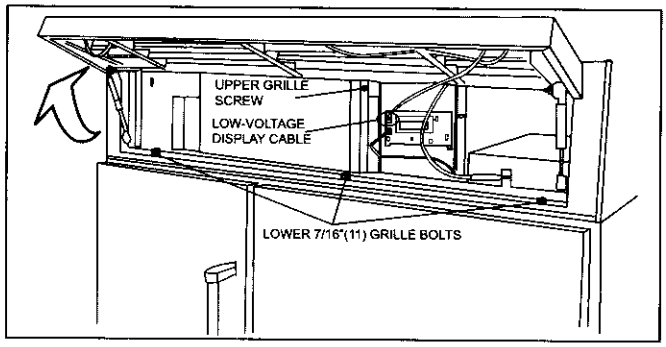


Figure 2-17. Grille Removal

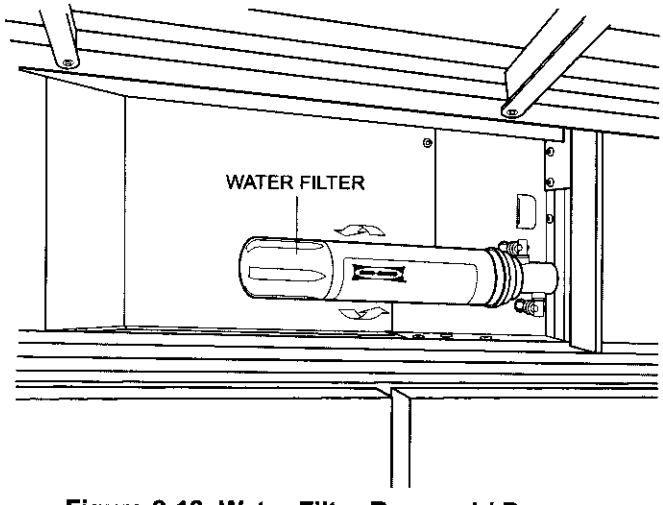


Figure 2-18. Water Filter Removal / Bypass