Installing the Water Line

Choosing a location

1. Open the copper tubing kit that you purchased earlier, and lay the contents neatly on a table where you can identify them easily. The parts from the kit that you will use are as follows:

   1 Regular Valve (not the steel-piercing type)
   2 Compression Sleeves
   2 Compression Nuts
   2 Clamps
   2 Screws
   2 Nuts
   1 Gasket Seal
   1 Length of Coiled Copper Tubing

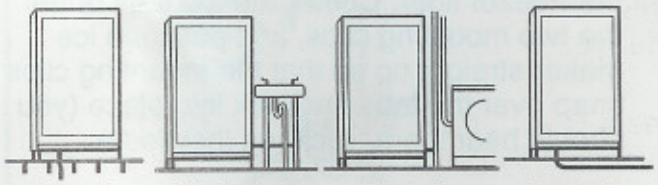
NOTE: When you work with the soft copper tubing, be careful not to kink it. If you accidentally kink the tubing, do not use it.

IMPORTANT: Do not install water line tubing in a location where the temperature may fall below freezing; otherwise, property damage could occur.

2. Choose a suitable water pipe location to install the water shut-off valve (see side diagram for some suggested locations). We recommend installing the valve on a vertical length of cold (not hot) water pipe that is nearest your refrigerator. If a vertical length of pipe is not nearby, you can use a horizontal length of water pipe, however, you will have to drill the access hole for the valve into the top or side of the pipe (not the bottom). This will keep water in the pipe from flowing down onto the drill, and also keep sediment from collecting in the valve later.

   NOTE: Depending on the location of the horizontal pipe in relation to the floor and wall, drilling into it may not be possible.

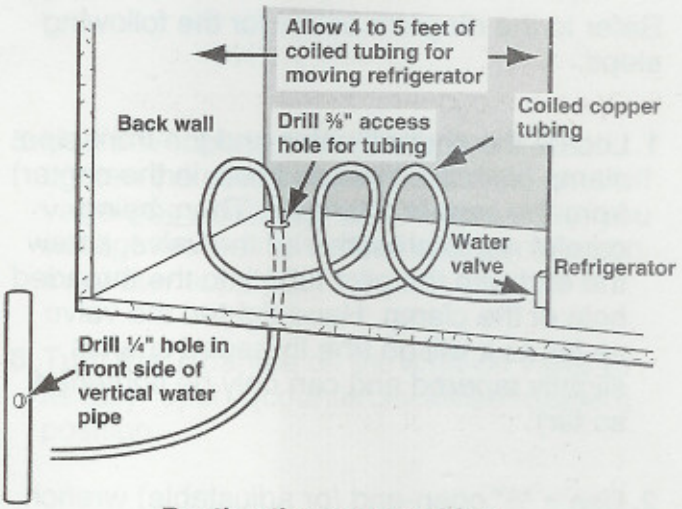
3. Drill a ⅜" hole through the floor or wall to the water pipe.



Typical water pipe locations

Routing the copper tubing

Refer to the side diagram for the following steps.



Routing the copper tubing

1. Uncoil the necessary length of copper tubing and straighten it, then route the end of the tubing through the access hole you drilled to the location you have chosen to install the shut-off valve. Straighten only enough of the copper tubing to reach this location. Leave the rest coiled near the access hole.

2. At this time, make sure that you have been supplied with enough tubing so that when you are finished connecting the water line, you will have enough coiled behind the refrigerator to easily move it forward far enough to clean behind it. Also make sure that the coils are large enough so that when the unit is pulled forward, the windings will not stretch too far and kink.

3. Turn off the cold water supply going to the water pipe where you will be installing the shut-off valve.

4. Open a cold water tap that is connected to the selected water pipe and bleed off the water pressure. Leave the tap open until after you complete the water line hook up.

5. Use a hammer and a center punch, and mark the location of the hole for the shut-off valve. If you are marking copper tubing, do not strike the punch hard enough to bend it.

6. Install a ¼" bit in the drill, and carefully drill an access hole through just the front side (not through both sides) of the cold water pipe.

7. Check the hole and make sure that you have drilled completely through one side of the pipe. The edges of the hole should be smooth and round. If necessary, use a small ¾-round file to remove any rough edges from inside the hole, and any burrs from around the top of the hole.

Installing the shut-off valve

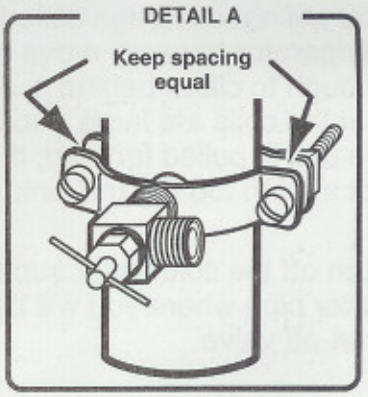
Refer to the diagram below for the following steps.

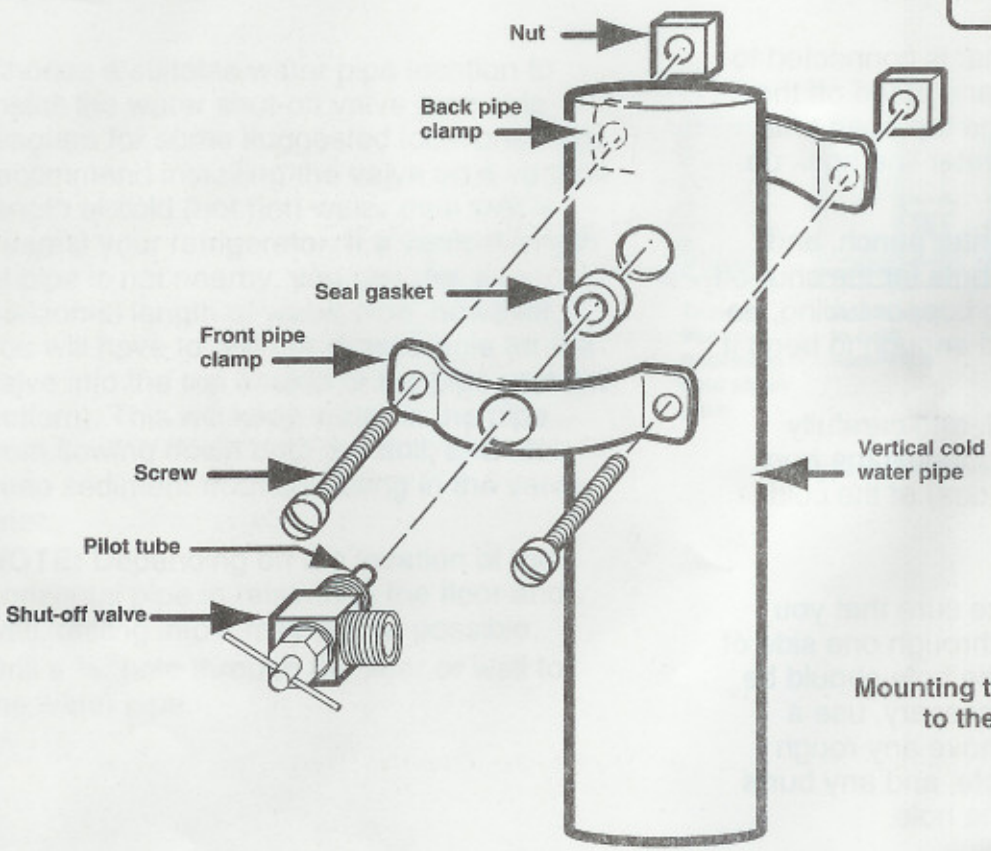
1. Locate the shut-off valve and the front pipe clamp (with the threaded hole in the center) from the copper tubing kit. Then, being careful not to crossthread the valve, screw the end with the pilot tube into the threaded hole of the clamp. Hand-tighten the valve as far as it will go (the threaded shaft is slightly tapered and can only be tightened so far).

2. Use a ½" open-end (or adjustable) wrench, and turn the body of the shut-off valve an additional ⅛ -turn to secure it to the clamp.

3. Slide the rubber seal gasket (from the copper tubing kit) over the pilot tube (the unthreaded portion) of the shut-off valve.

4. Carefully slide the pilot tube of the shut-off valve into the water pipe access hole so it is against the seal gasket, and install the back pipe clamp over the water pipe. Secure the clamps to the pipe with the two screws and nuts that were supplied with the copper tubing kit. Tighten the nuts equally so that the space between the clamps is the same (see DETAIL A). DO NOT OVERTIGHTEN the nuts, or you could deform the clamps and damage the seal gasket.





Mounting the shut-off valve to the water pipe

Connecting the copper tubing to the shut-off valve

Refer to the diagram below for the following steps.

1. Straighten a 2" section of copper tubing and make sure that the opening is round and cut evenly across the end. If necessary, use a tubing cutter (or a hacksaw) and cut the end off, then file it so it is even, and remove any burrs from around the inside and outside edges so it is smooth and round. When you are finished, clean the filings from inside the tubing as much as possible.

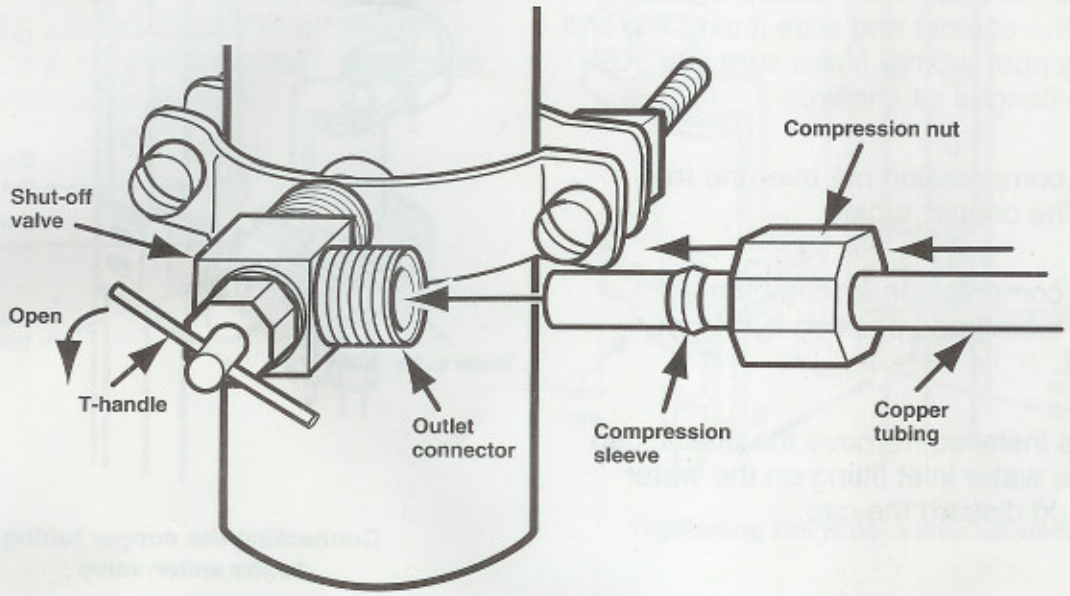
2. Position the compression nut as shown, and slide it over the end of the copper tubing.

3. Slide a compression sleeve over the copper tubing until it is approximately 1" from the end.

4. Insert the end of the copper tubing into the outlet connector of the shut-off valve as far as it will go, and then hand tighten the compression nut as much as possible.

5. Use a ½" open-end wrench, and further tighten the compression nut on the shut-off valve *one additional turn*. If necessary, you will tighten the nut further after you turn on the water supply.

6. Turn the T-handle on the shut-off valve to its fully "open" (counterclockwise rotation) position.



Connecting the copper tubing to the shut-off valve

Connecting the copper tubing to the water valve

Refer to the diagram below for the following steps.

1. Check to make sure that the free end of the tubing is round and cut even. If necessary, prepare the end in the same manner as you did earlier. Be sure to clean the filings from inside the tubing after you prepare the end.

When you perform the next step, be careful not to kink the copper tubing.

2. Starting at the free end, straighten approximately 20" of the copper tubing.

3. Close the water tap you left open earlier to bleed the water lines.

4. Insert the end of the copper tubing into a pail, and have someone turn on the water supply. Allow enough water to flow through the lines to thoroughly flush them out. Once the water runs clear, turn off the supply and bleed the lines.

5. Remove the strain relief clamp from the rear of the cabinet and slide it over the end of the copper tubing. Make sure you position the flanges as shown.

6. Slide a compression nut over the free end of the copper tubing.

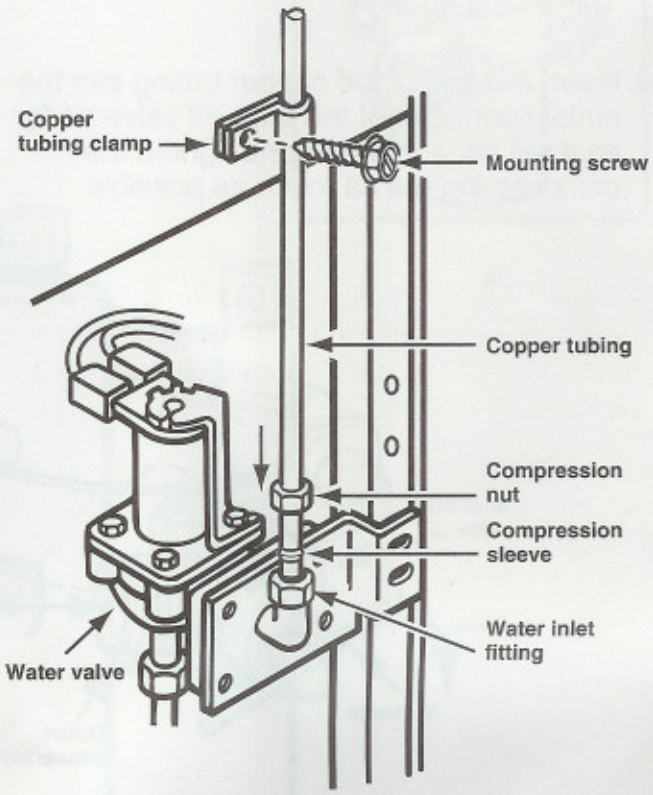
7. Slide a compression sleeve over the copper tubing and position it 1" from the end.

8. If one is installed, remove the plastic cap from the water inlet fitting on the water valve and discard the cap.

9. Insert the end of the tubing into the water inlet connector at the top of the water valve as far as it will go, and hand tighten the compression nut as much as possible.

10. Use a ½" open-end wrench, and further tighten the compression nut on the water inlet connector *one additional turn*. If necessary, you will tighten the nut further after you turn on the water supply.

11. Mount the strain relief clamp to the back of the cabinet with the hex-head screw you removed earlier.

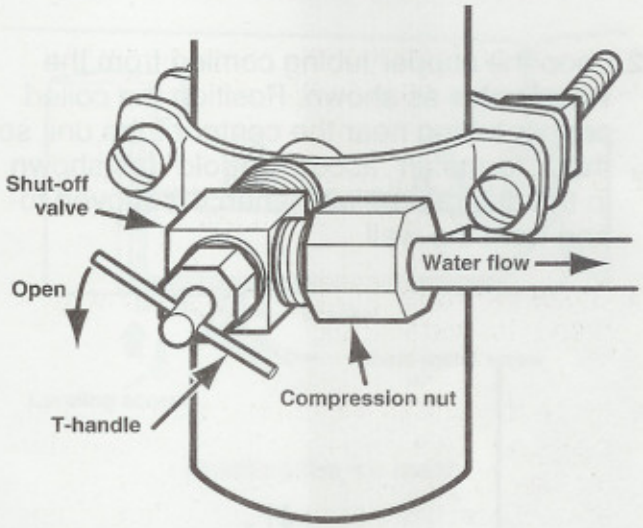


Connecting the copper tubing to the water valve

Turning the water on

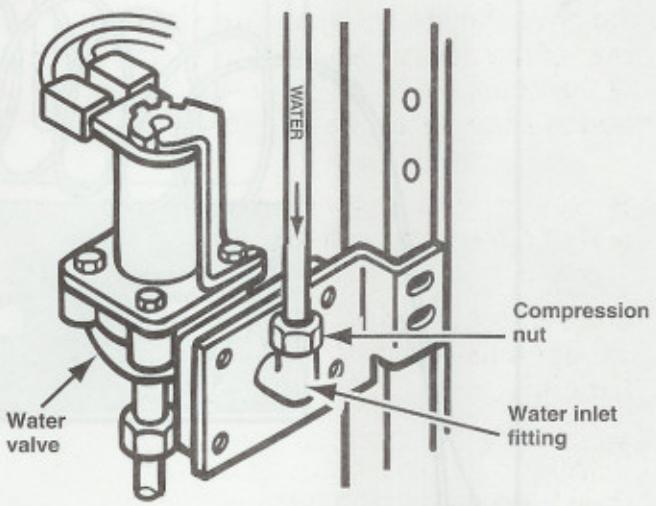
NOTE: Be very careful when you tighten the compression nuts that you do not overtighten them and destroy the compression sleeving and the end of the soft copper tubing. If this happens, you will have to cut off the end of the tubing, purchase a new compression sleeve, and start over. Be careful and go slow!

1. Turn on the water supply and check the shut-off valve for leakage. If necessary, refer to the side diagram, and tighten the compression nut on the shut-off valve *in small increments until the leakage just stops*. Wipe off the connection with a cloth each time you check for leaks.



Tightening the shut-off valve connection

2. Check the water valve for any leakage. If necessary, tighten the compression nut (see the side diagram) *in small increments until the leaking just stops*.



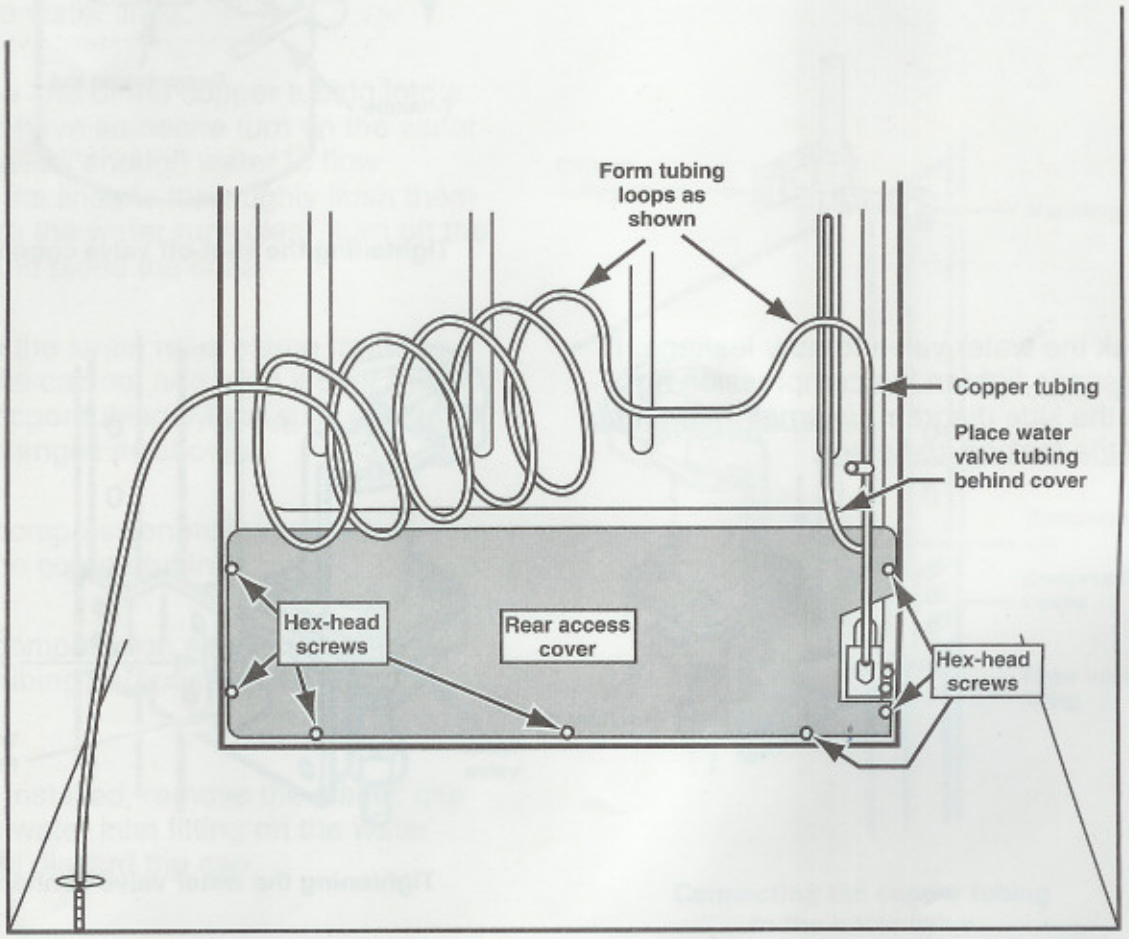
Tightening the water valve connection

Final Installation

Installing the access cover and forming the copper tubing

1. Reinstall the rear access cover on the refrigerator so the water valve tubing is inside the cover, and the copper water line is outside (see the diagram below), then secure the cover with the seven hex-head screws you removed earlier.

2. Loop the copper tubing coming from the water valve as shown. Position the coiled copper tubing near the center of the unit so that it forms an "accordion-fold" (as shown in the diagram below) when it is moved to-and-from the wall.



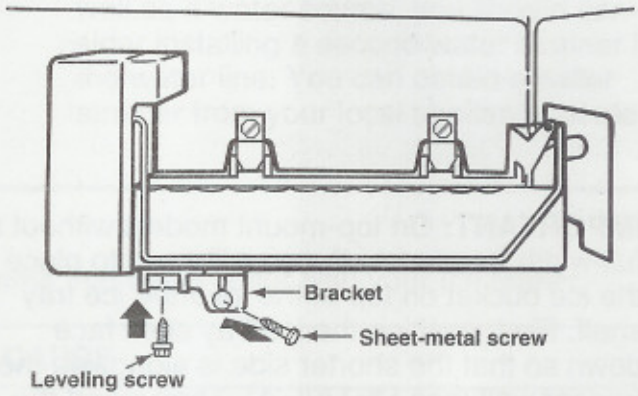
Installing the access cover and forming the copper tubing

Connecting the power/leveling the unit

1. Plug the power cord into its AC outlet, and carefully push the refrigerator back against the wall.

2. Place a level on top of the cabinet. If you need to relevel the refrigerator, follow the procedure to adjust the front casters, as outlined in your refrigerator's "Use and Care Guide."

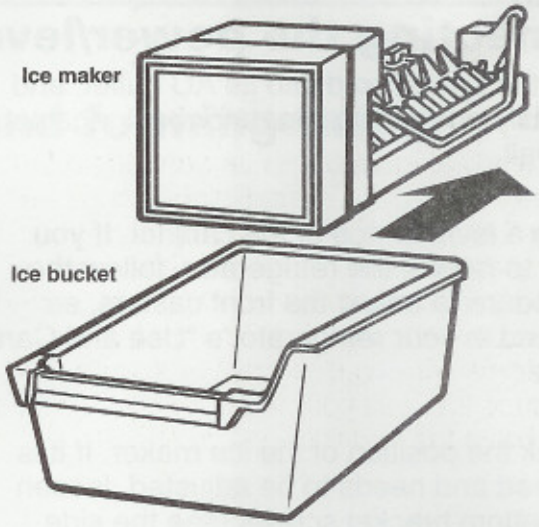
3. Check the position of the ice maker. If it is crooked and needs to be adjusted, loosen the bottom bracket screws (see the side diagram) and position the unit as desired, then tighten the bracket screws.



Leveling the ice maker

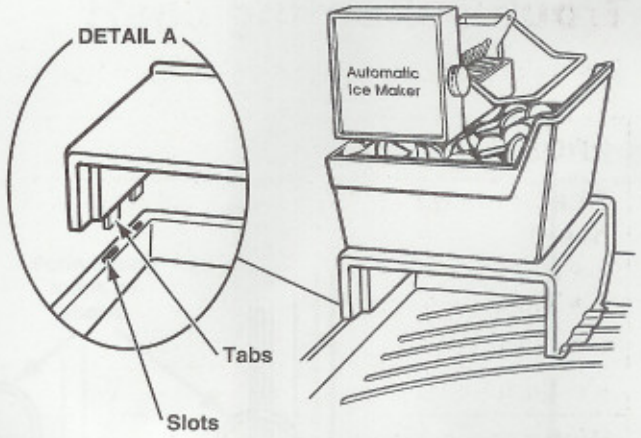
Starting the Ice Maker

1. Wash out the ice bucket, and then slide it under the ice maker (see the side diagram) as far as it will go. The ice bucket will be sitting on top of the freezer shelf.



Installing the ice bucket

IMPORTANT: On top-mount models without a full-width freezer shelf, you will need to place the ice bucket on top of the inverted ice tray shelf. First, position the ice tray shelf face down so that the shorter side is alongside the freezer wall (see DETAIL A). Then insert the tabs on the shorter side of the shelf into the slots on the edge of the freezer floor. This will hold the shelf in position. Next, place the ice bucket on top of the inverted ice tray shelf and slide it under the ice maker (see side diagram). The ice maker will not function properly if the ice bucket is placed directly on the freezer floor.

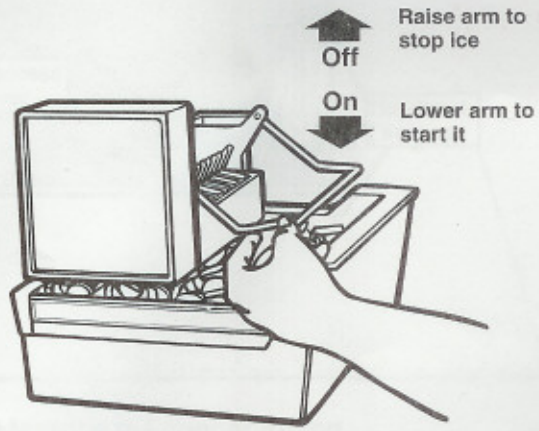


2. Place the items back into the freezer compartment.

3. Lower the arm on the ice maker (see the side diagram) to its "on" position, and close the freezer door. The ice maker will begin to make ice within 24 hours.

NOTE: It usually takes approximately 24 hours for the ice maker to begin producing ice. Once ice is available, you may notice that it has an "off taste." If this happens, make two or three batches of ice and discard them. After that, the "off-taste" should be gone. If you have any problems, refer to "Trouble-shooting" on page 25.

This completes the installation of your Ice Maker.



Turning the ice maker on