



ECKMF-28

**HOW TO INSTALL
YOUR AUTOMATIC
ICE MAKER**

**USE THESE INSTRUCTIONS ONLY FOR
28 INCH TOP FREEZER REFRIGERATORS**

THE PARTS IN THIS KIT ARE USED FOR MORE THAN ONE MODEL

KEEP ALL PARTS IN THEIR OWN PACKAGE UNTIL USED.

Parts are listed in order of usage.
Arrange in order before starting installation.

PART NAME AND NUMBER	NUMBER REQUIRED	USED IN STEP NUMBER
836240 TUBING	1	A1
939025 SHIELD	1	A5
538533 CLIPS	2	A5
489069 SCREWS	3	2-A5, 1-A11
836489 WATER TUBE FITTING	1	A7
470168 GRAY SEALER (PERMAGUM)	1	A7, B4
939029 WIRING ASSEMBLY	1	A9
939027 WATER INLET TUBE (ALUMINUM)	1	A9
626457 ICE MAKER	1	A10
939529 ICE BUCKET	1	A12
488878 CLAMP	1	B1
841707 TUBE INSERTS	2	1-B1, 1-C4
488645 SCREW	3	1-B1, 1-B2, 1-C5
488366 CLAMPS	2	B2
939033 GROMMET	1	B4
939009 CLAMP	1	B5
488649 SCREWS	4	1-C2
488500 SCREW	1	1-C3
936192 COPPER TUBING, WITH WASHER AND NUT	1	1-C5
836074 SLEEVE	1	1-C5
510716 CLAMP	1	1-C5
627018 NUT AND SLEEVE	1	1-C4

OTHER ITEMS AND TOOLS YOU WILL NEED

MATERIALS NEEDED

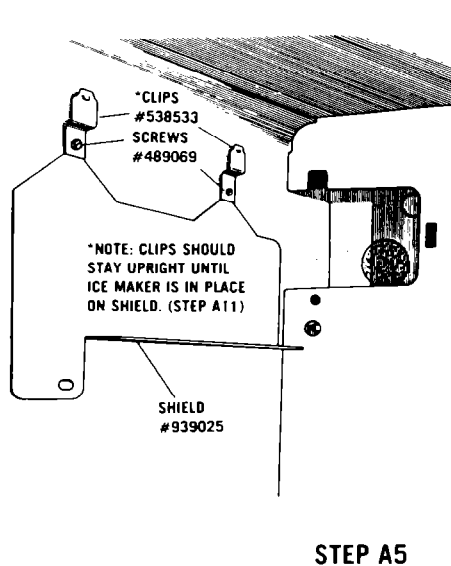
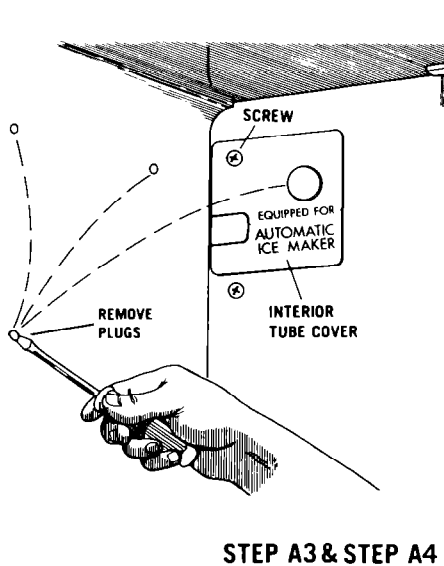
- ¼" O.D. Copper Tubing—See Step D2 for length
- 1—Shut-off valve—¼" outlet
- 1—Tube Union—¼" x ¼"

These parts available from your Whirlpool dealer or local hardware store.

TOOLS NEEDED

- Phillips head screwdriver
- 5" (total length) slot head screwdriver
- Pliers

A. CONNECTING ICE MAKER TO FREEZER



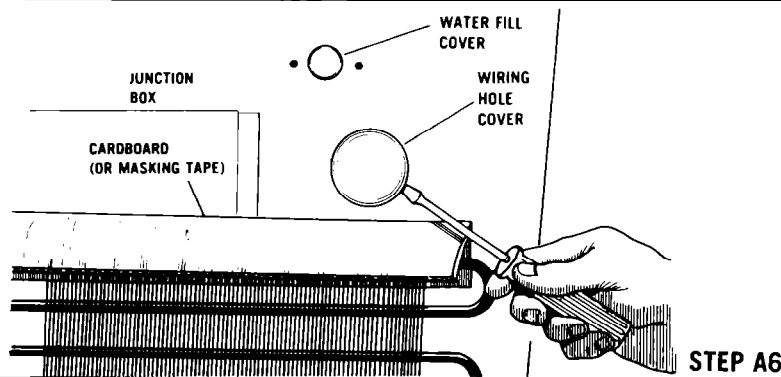
A1. Put tubing (#836240) in pan of hot tap water to soften it. This will make it easier to install.

A2. Unplug refrigerator.

A3. With a screwdriver, pry out the 4 plastic plugs inside freezer as shown in A3.

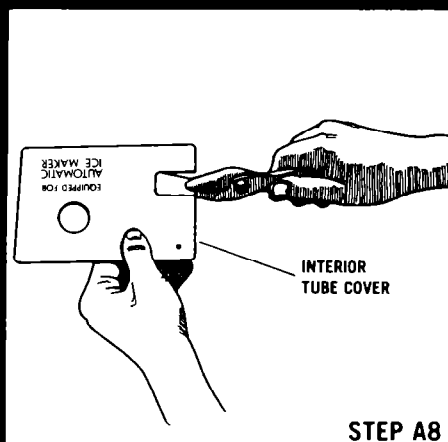
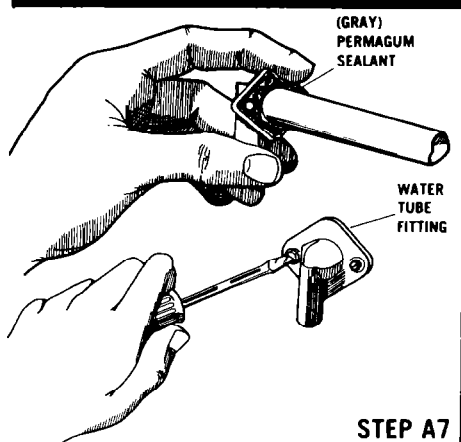
A4. Remove the interior tube cover and screw holding it in place. Save both parts for later use, in step A9.

A5. Place shield (#939025) over the 3 holes in side wall of freezer. Attach one clip (#538533) and one screw (#489069) through each of top 2 holes in shield. Leave screws loose. See picture for Step A5.



A6. a. Go to back of refrigerator and fold a piece of cardboard or masking tape over top edge of condenser. This is to protect your hands and the wiring during installation. The ice maker kit box could be cut up and used if you need cardboard.

b. With screwdriver, pry out wiring hole cover and water fill cover.



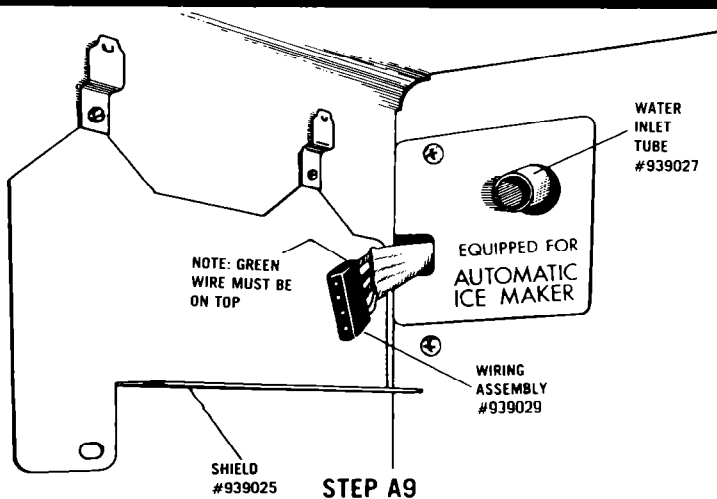
A7. a. Apply one strip of permagum sealant around water tube fitting (#836489) as shown.

b. Return to back of refrigerator and remove the 2 screws around the water fill hole (see picture of step A6).

c. Put water tube fitting (#836489) into the water fill hole in rear panel.

d. Replace the 2 screws just removed.

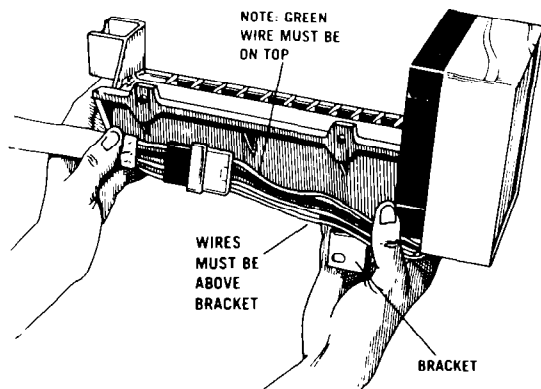
A8. Snap off wiring entrance tab from tube cover you removed in Step A4. This is done by gripping the tab firmly with pliers and snapping off.



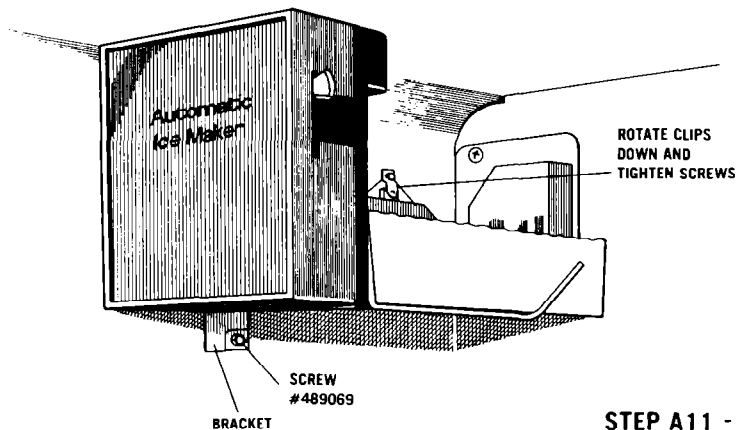
A9. a. Put wiring assembly (#939029), black plug end first (green wire on top), through the lower hole on back of refrigerator (about 4-5 inches of the wiring assembly should be in the freezer compartment).

b. Replace tube cover putting the wiring assembly in notch area as shown. Secure cover with screw removed in Step A4.

c. Slip aluminum water inlet tube (#939027) up over nylon water tube fitting. Make sure that tubes are securely engaged.



STEP A10



STEP A11 - STEP A12

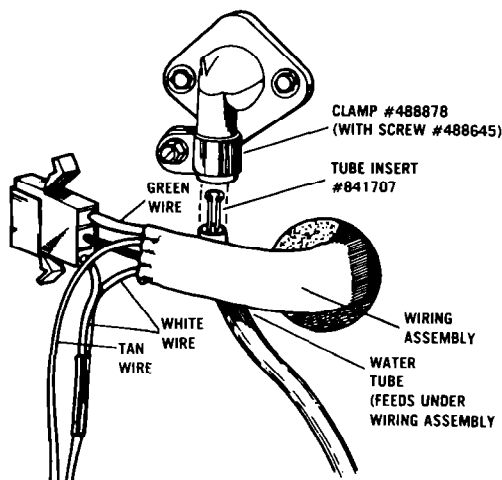
- A10.** Connect Ice Maker to wiring assembly. Place the ice maker on the side of the freezer so:
1. Wiring lays *between* shield and Ice Maker.
 2. Plug is flat against the shield.
 3. Wiring is above the bracket on the back of Ice Maker.
- WARNING—DO NOT PINCH WIRES BETWEEN BRACKET AND SIDE OF FREEZER.**

- A11.** Put screw (#489069) through bottom bracket and into freezer wall, then turn the 2 top clips down (Step A5). Tighten all 3 screws.

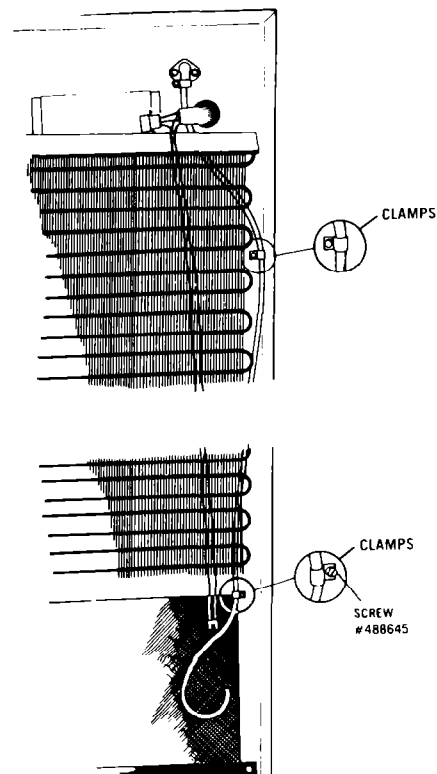
- A12.** Place ice bucket under Ice Maker.

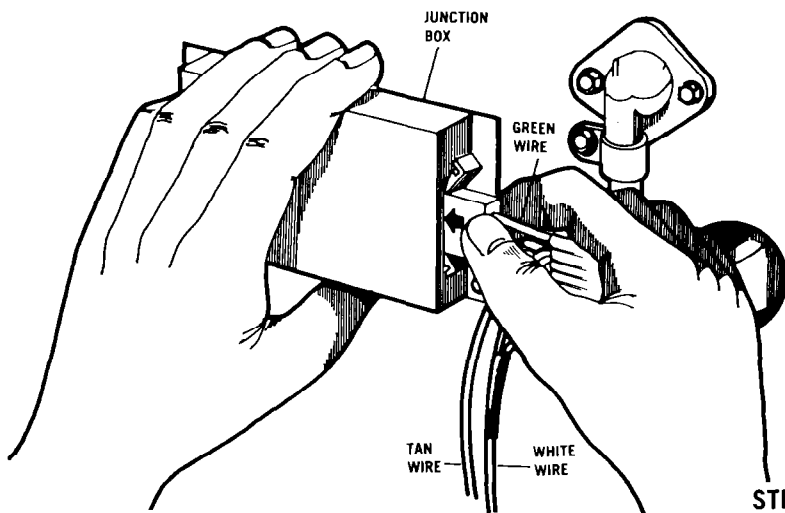
B. INSTALLING WATER LINE AND WIRING ON BACK OF CABINET

- B1.** Place clamp (#488878) over spout of water tube fitting. Put tube insert (#841707) in one end of tubing that has been soaking in hot water. Put tube insert and end of tubing into spout. Tighten clamp with screw (#488645).



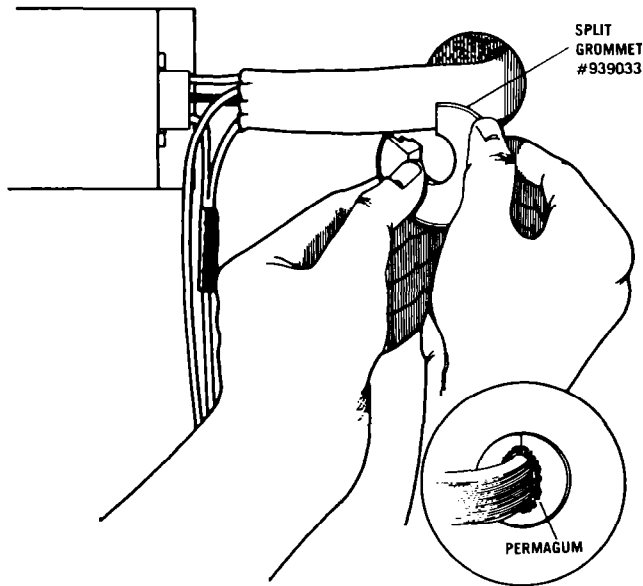
- B2.** Slide 2 clamps (#488366) over tubing. Remove the screw from cabinet and attach upper clamp to cabinet with this screw. Use screw (#488645) from kit to attach lower clamp to cabinet. Hold wires away from screw when tightening.





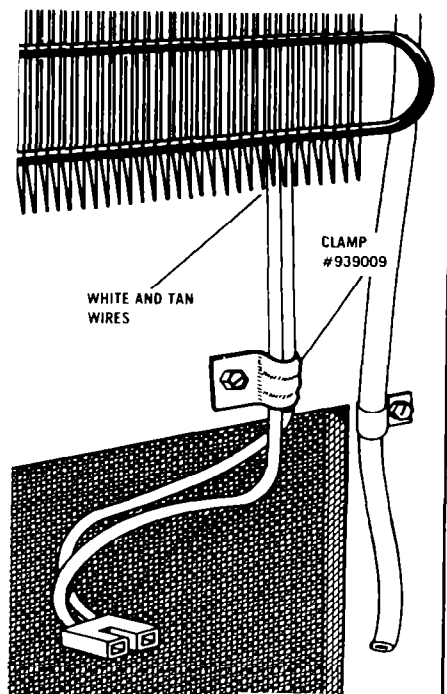
STEP B3

- B3.** Remove the metal junction box and save the 2 mounting screws.
- Bend back ears of 3 wire plug on ice maker wiring assembly.
 - With the green wire up, snap the plug into hole in side of junction box.
 - Connect the 3 wire plug into mating part in junction box. Remount metal junction box.
- WARNING—DO NOT PINCH WIRES BETWEEN JUNCTION BOX AND CABINET.**



STEP B4

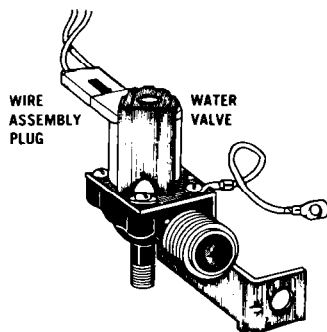
- B4.** Place split grommet (#939033) around wiring assembly and push into cabinet hole. Seal space between wiring and grommet with permagum sealant.



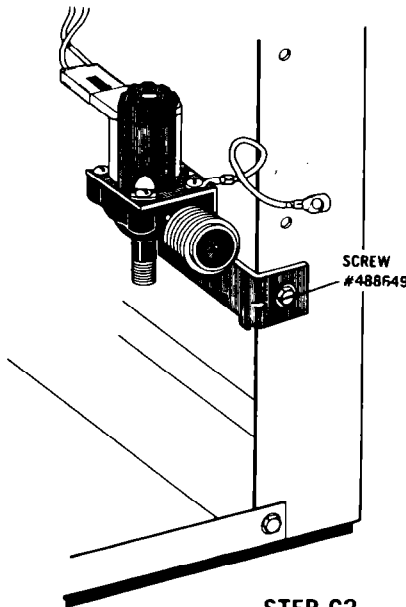
STEP B5

- B5.** Route white and tan wires behind condenser to unit compartment. Remove screw from cabinet. Place clamp (#939009) around both wires and attach to cabinet with the screw just removed. Hold wires away from screw when tightening.

C. INSTALLING WATER VALVE ON LOWER BACK OF CABINET LEG.

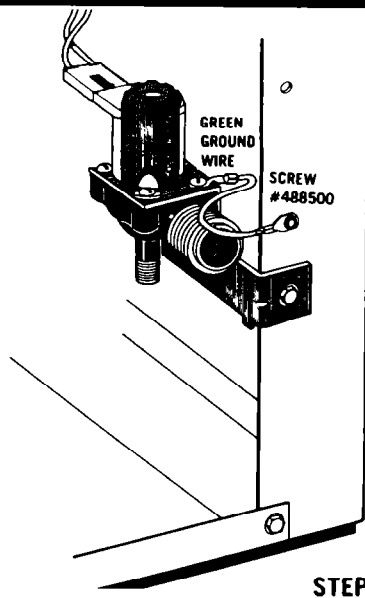


STEP C1

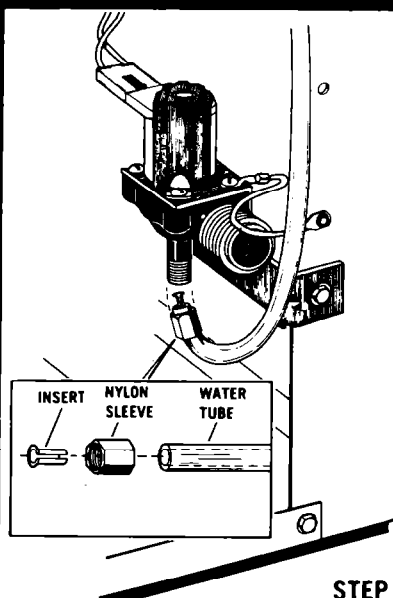


STEP C2

- C1. Plug wiring assembly into water valve so that the two parts fit together tightly.
- C2. Fasten water valve to cabinet leg with 1 screw (#488649).

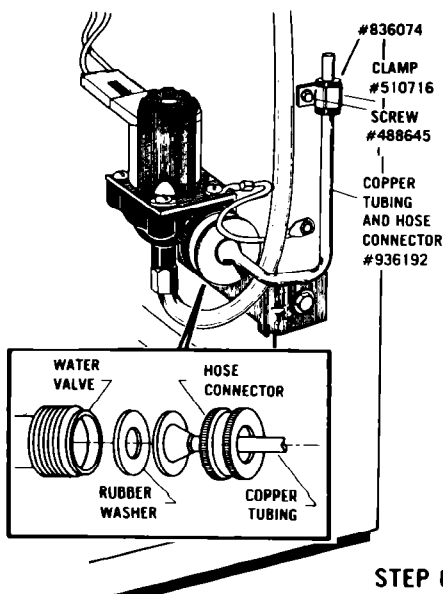


STEP C3



STEP C4

- C3. Attach valve ground wire to cabinet with ground screw (#488500).
- C4. Slide retaining nut (#627018) over tubing. Push tube insert (#841707) into end of tubing. Push end of tubing into water valve. Tighten the retaining nut, but do not overtighten.



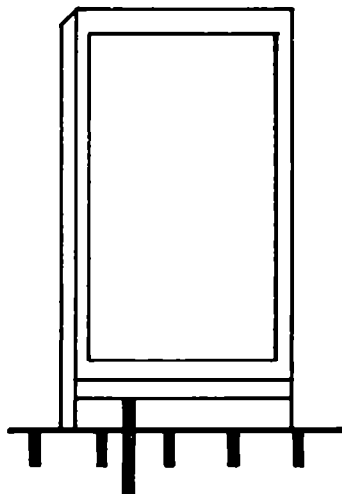
STEP C5

- C5. Attach copper tubing and hose connector (#936192) to water valve. Be sure that rubber washer is in place and tighten hose connector. Attach copper tubing to refrigerator with sleeve (#836074), clamp (#510716), and screw (#488645).
- C6. Remove cardboard or tape (installed in step A6) from top of condenser.

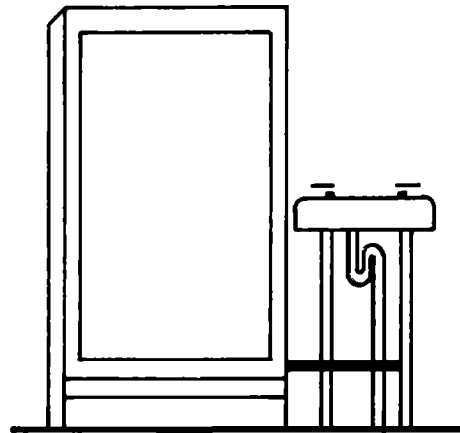
D. CONNECTING ICE MAKER TO WATER SUPPLY

You will need enough ¼-inch O.D. copper tubing to connect refrigerator to water source and two 6" or 8" adjustable or open end wrenches.

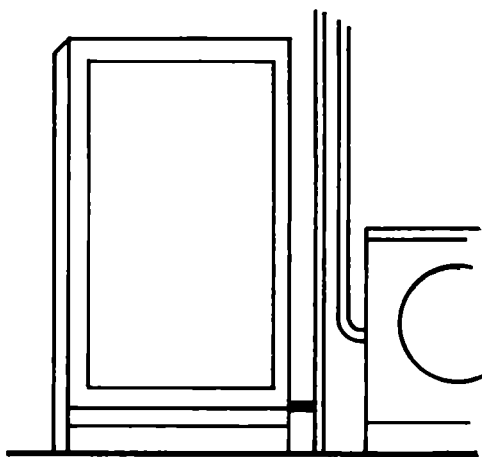
TYPICAL WAYS TO CONNECT TO WATER SUPPLY



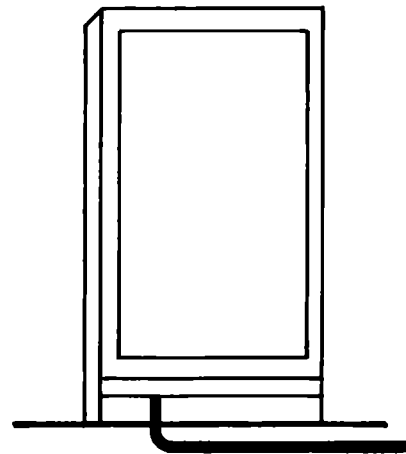
Through floor to basement cold water pipe.



Under sink to cold water pipe.



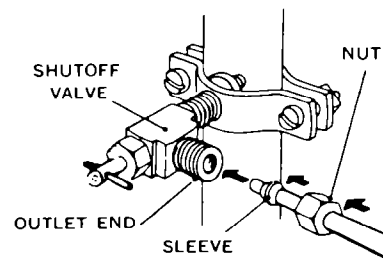
Through wall to utility room cold water pipe.



In crawl space under home.

CAUTION: Ice Maker tubing should not be installed where temperature may fall below freezing.

- D1.** Find a $\frac{3}{8}$ -inch to 1-inch vertical COLD water pipe near the refrigerator. (Horizontal pipe will work . . . but extra precautions must be taken.)
- D2.** Measure from inlet on rear of refrigerator to water pipe. Add 7 feet to allow for moving refrigerator for cleaning. This is the length of $\frac{1}{4}$ -inch O.D. copper tubing you will need for the job (length from inlet tube to water pipe PLUS 7 feet). Be sure both ends of copper tubing are cut square.



- D3.** Turn OFF main water supply. Turn ON nearest faucet long enough to clear line of water.

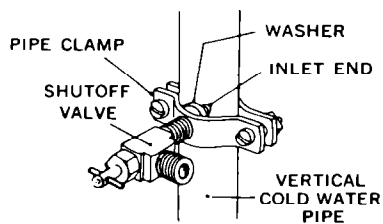
- D4. Using a grounded drill,** drill a $\frac{3}{16}$ -inch hole in the vertical cold water pipe you have selected. Some water almost always remains in pipes. If it enters the drill, it can cause lethal shock. **BE SURE YOUR DRILL IS GROUNDED.**

Fasten a separate ground wire from drill to a good ground that complies to local electrical codes. (If in doubt, consult a licensed electrician.) **UNLESS PROPER GROUNDING IS FOLLOWED, YOU ARE NOT PROTECTED AGAINST SEVERE OR LETHAL SHOCK.**

If you must use a horizontal pipe, take extra precautions:

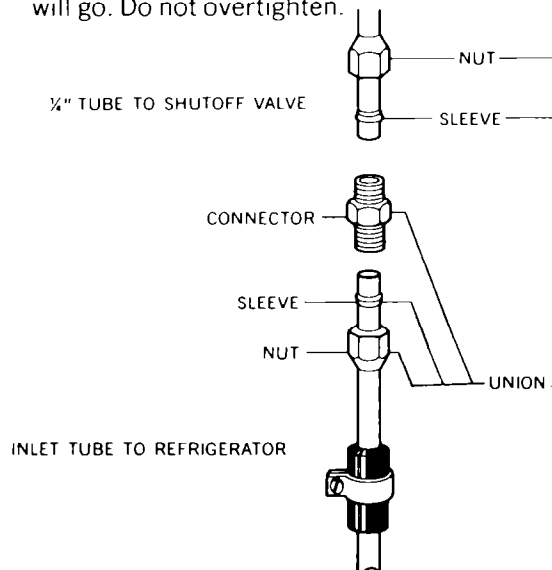
Drill on the top or side of the pipe, not bottom. This helps keep water away from the drill. Also, it keeps normal sediment from collecting in the valve.

- D5.** Fasten *shutoff valve* to cold water pipe with pipe clamp. Be sure *inlet end* is solidly in the $\frac{3}{16}$ -inch drilled hole in the water pipe and that *washer* is under the *pipe clamp*. Tighten packing nut. Tighten the *pipe clamp* screws carefully and evenly so *washer* makes a watertight connection. Do not overtighten or you may crush copper tubing, especially if soft copper tubing is used. Now you are ready to connect the copper tubing.



- D6.** Slip *compression nut* and *compression sleeve* on copper tubing as shown in diagram. Insert end of tubing into *outlet end* squarely as far as it will go. Screw *compression nut* to *outlet end* with adjustable wrench. Do not overtighten. Turn ON main water supply and flush out tubing until water is clear. Turn OFF *shutoff valve* on the water pipe. You are now ready to connect other end of $\frac{1}{4}$ -inch copper tubing to inlet tube or water valve on back of refrigerator.

- D7.** Assemble *compression nuts* on tubing as shown in diagram. Insert ends of tubing into *connector* and tighten *compression nuts*. Be sure ends of tubing are squarely in connector as far as they will go. Do not overtighten.



- D8.** Turn shutoff valve on. **TIGHTEN ANY CONNECTIONS OR NUTS THAT LEAK.**

- D9.** REPLACE LOWER BACK COVER PREVIOUSLY REMOVED.

- D10.** Copper tubing may now be fastened to base-board.

- D11.** The Ice Maker is equipped with a built-in water strainer located on the inlet side of the water valve. If local water conditions require periodic cleaning or a well is your source of water supply, a second water strainer should be installed in the $\frac{1}{4}$ -inch water line.

- D12.** Water Pressure Limitations: Not below (15 P.S.I.) or above (125 P.S.I.). If a problem occurs call your Utility Company.

- D13. PLUG IN YOUR REFRIGERATOR.**

When you have your first batch of ice you may throw away extra parts.

IMPORTANT:

It may take up to 24 hours for your Ice Maker to begin producing ice crescents.

To enjoy your Ice Maker most PLEASE READ CAREFULLY THE ICE MAKER SECTION OF YOUR USE AND CARE GUIDE.