Dometic

AUTOMATIC ICE MAKER
MODEL DN1075

SERVICE OFFICE

The Dometic Corp.
509 South Poplar St.
LaGrange, IN 46761

CANADA

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866 Langs Drive
Cambridge, Ontario
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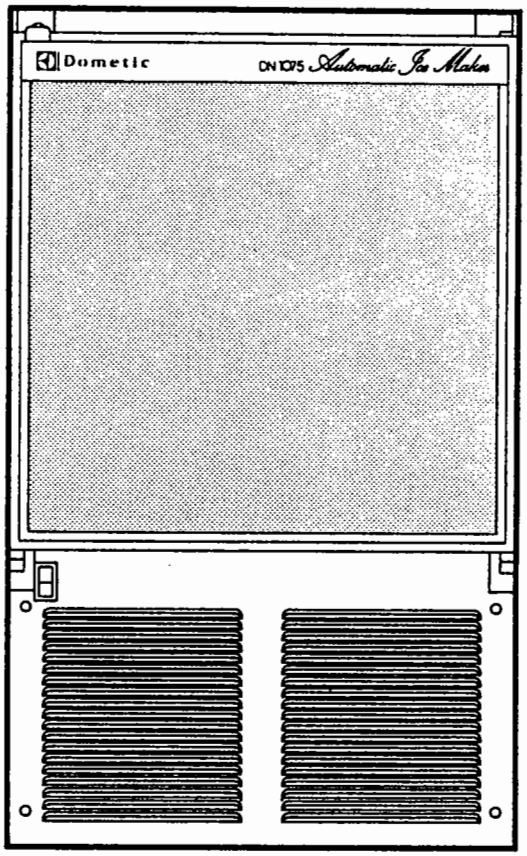


INSTALLATION AND OPERATING INSTRUCTIONS

AUTOMATIC ICE MAKER

MODEL DN1075

RECORD THIS INFORMATION FOR FUTURE REFERENCE:
(RATING PLATE IS FOUND BEHIND LOWER FRONT PANEL)

MODEL NUMBER _____
SERIAL NUMBER _____
DATE PURCHASED _____
PLACE OF PURCHASE _____

Form No. 3101495.024 2/89

INSTRUCTIONS FOR INSTALLATION

I. GENERAL SPECIFICATIONS

This Ice Maker is specifically designed:

A. for the making and storage of cube-type ice.
B. for household or recreational vehicle use.
C. to be built into a wall, cabinet or similar enclosure; however, it may also be used as a free standing appliance.

Ice Storage Capacity (lbs.)	8 lbs. of Ice/150 cubes
Electrical Rating	115 VAC, 60 Hz., 1 ph.
Rated Load Amps	2.9 Amps
Input Watts	310 Watts
Water Supply Pressure (PSI)	15 PSI Min/125 PSI Max.
Refrigerant 12 Charge (oz.)	3.5 oz.

II. PRECAUTIONS FOR SAFE INSTALLATION

Read these installation and operating instructions thoroughly before attempting installation and/or operation of this Ice Maker. **Failure to follow these instructions may damage the Ice maker, cause serious injury, endanger life and/or cause property damage.**

Installation must comply with the National Electric Code and all applicable State and Local Codes and/or Regulations.

DO NOT add any devices or accessories to this Ice Maker except those specifically authorized by the manufacturer.

In the event this Ice Maker requires service, the work must be performed by an authorized serviceman only. Refer to the enclosed service listing, or contact your dealer or manufacturer of the Ice Maker for the name of your nearest authorized serviceman.

III. INSTALLATION

A. Selecting Location for Ice Maker and Installation Requirements

Consider convenience of use when selecting a location for your Ice Maker installation.

For the best performance, locate the Ice Maker out of direct sunlight, away from heat registers, furnaces or heaters. Allow a minimum of 16 inches in front of the Ice Maker to allow free movement of air in and out of the bottom and for door swing.

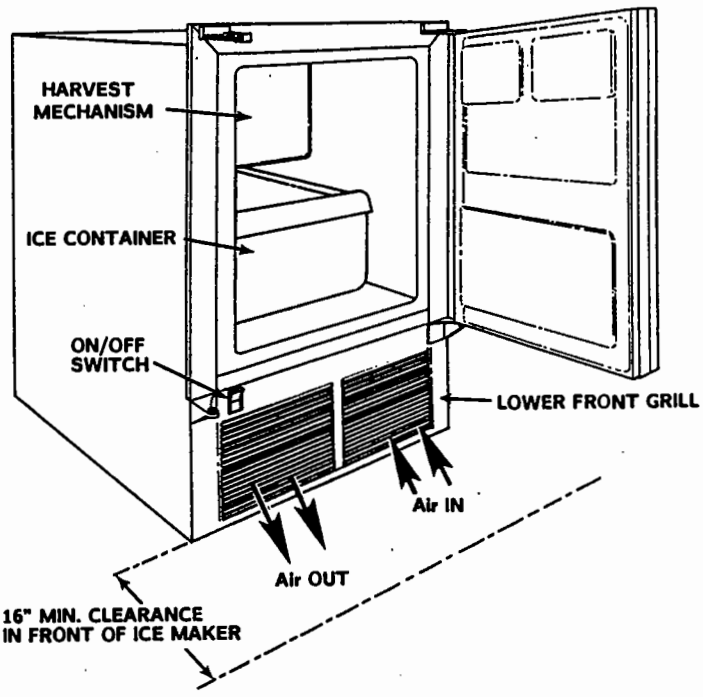
The Ice Maker must sit relatively level, front to back and side to side, for good water flow in the Ice Harvest mechanism.

The Ice Maker should rest solidly on the floor or shelf.

A fused 115V AC with ground wall receptacle must be located within 5 feet of Ice Maker back.

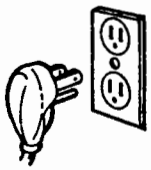
A water supply with water pressure maintained between 15 PSI and 125 PSI must be available to the Ice Maker.

FIG. 1

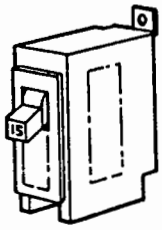


B. Electrical

1. This Ice Maker is designed to plug into a 115 Volt, A.C., 60 Hertz, 1 phase, grounded electrical power supply.



2. We recommend that the electrical circuit be protected by a minimum of 15 Amp time delay fuse or circuit breaker.



3. A grounded wall receptacle must be provided within 5 feet of the back of the Ice Maker. This wall receptacle should be located in an area where the plug cannot be accidentally pulled out.

5' Maximum from receptacle to back of Ice Maker

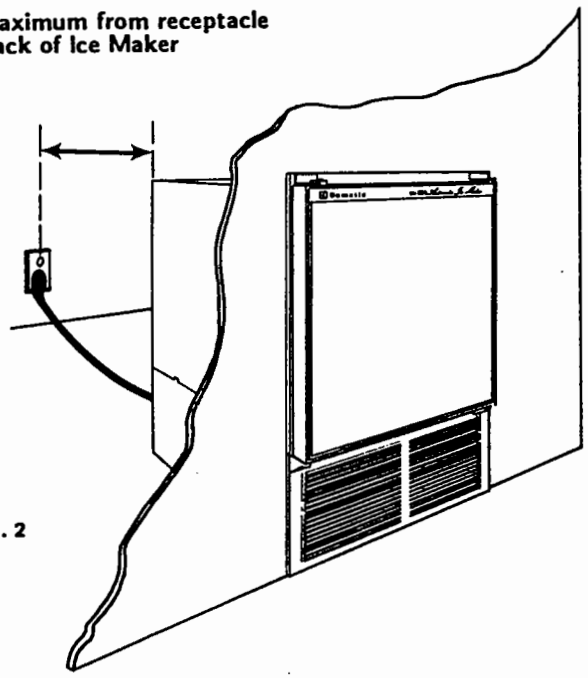
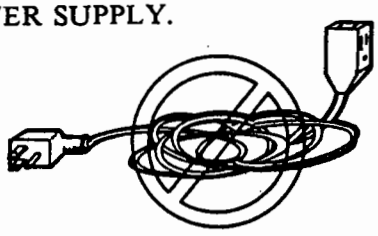
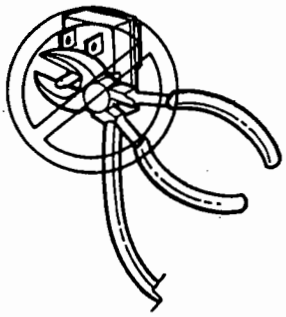


FIG. 2

DO NOT USE AN EXTENSION CORD TO CONNECT THIS ICE MAKER TO ELECTRIC POWER SUPPLY.



4. This Ice Maker is equipped with a three-prong (grounding) plug for your protection against shock hazard. This plug should be plugged directly into a grounded three-prong wall receptacle. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THE PLUG.



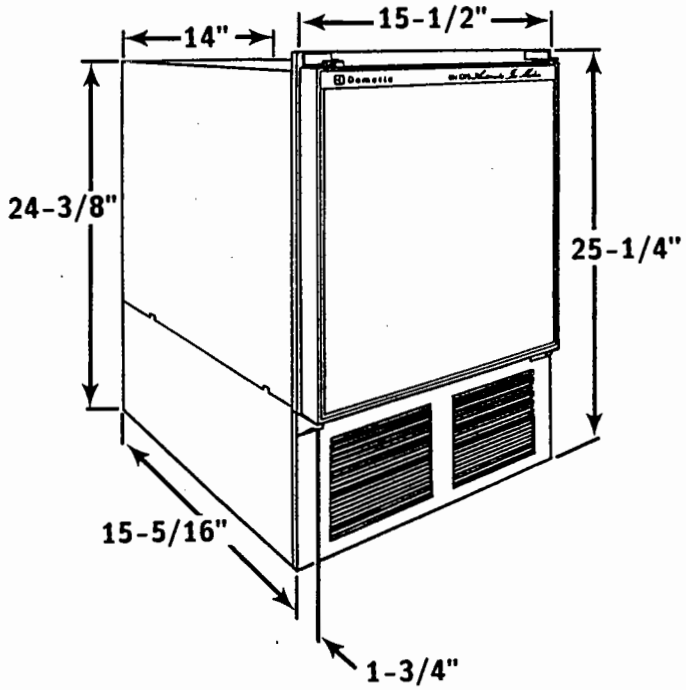
WARNING

OPERATION OF THIS ICE MAKER FROM A NON-GROUNDED OUTLET OR WITH AN EXTENSION CORD CAN CAUSE SEVERE PERSONAL INJURY AND/OR PROPERTY LOSS.

C. Prepare Opening for Ice Maker (Built-In Only) See Fig. 3, Page 4

To build this Ice Maker into a wall, cabinet or similar enclosure, provide an opening 14-1/4" wide X 24-5/8" high X 16" deep.

ICE MAKER DIMENSIONS



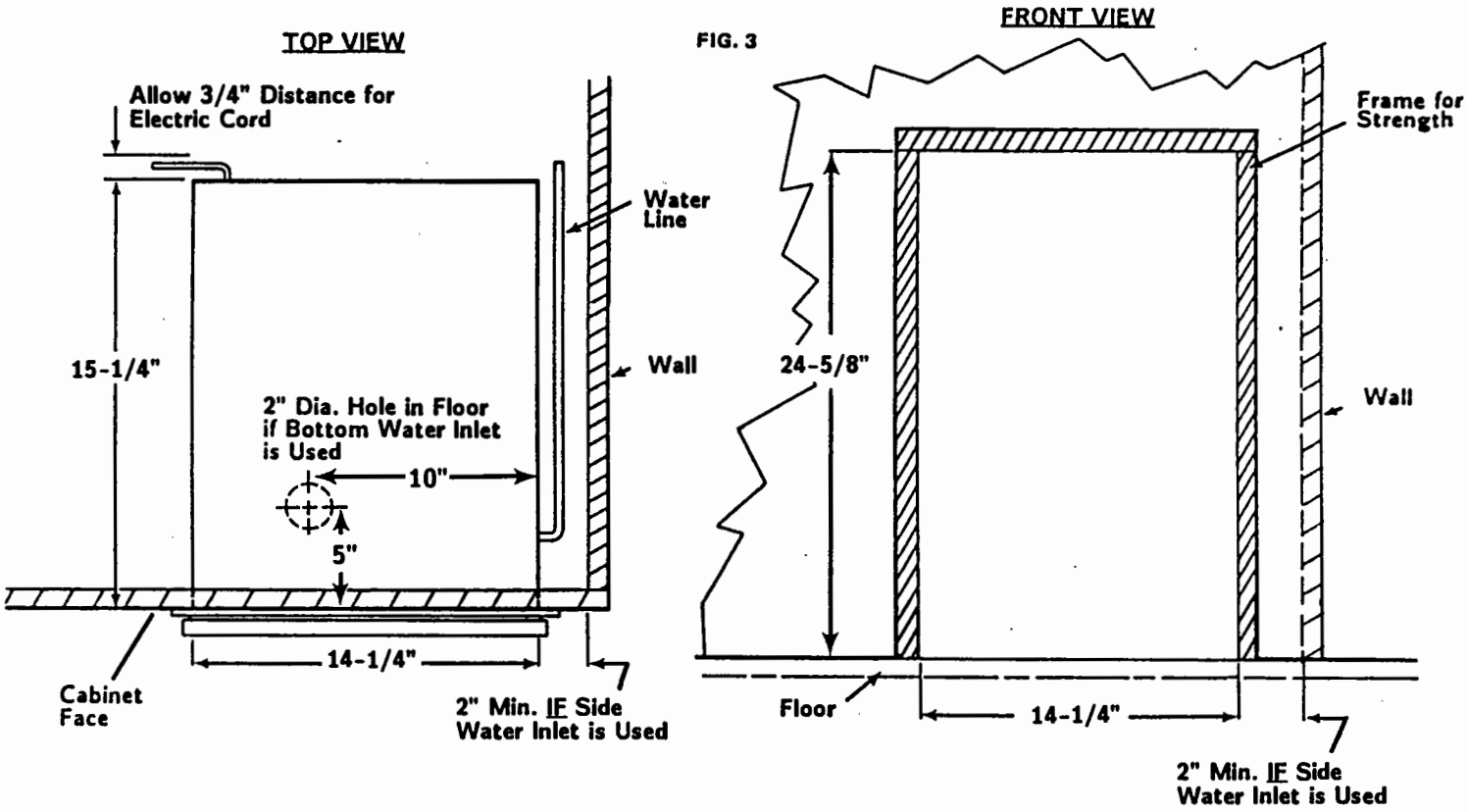


FIG. 3

Frame the back edge of opening with a minimum of 1" X 2" wood strips. This framing is to provide a strong mounting surface for attaching the Ice Maker casing frame.

If a right side water inlet is to be used, a minimum of two inches clearance must be maintained on the right side of Ice Maker. This clearance is to allow the water line to bend freely into Ice Maker without kinking.

If a bottom water inlet is to be used, a two inch diameter hole must be provided in flooring under the Ice Maker to route water line through. This hole should be located 5 inches back from front edge of Ice Maker and 10 inches to the left from the right front corner of the Ice Maker.

D. Water Supply

This Ice Maker requires a water supply maintained at a pressure between 15 PSI and 125 PSI. The Ice Maker will not operate properly at water pressures outside of this range.

A 1/4" O.D. water line is required to connect to your water supply. The length of this water line will vary depending upon the location of the Ice Maker and your supply line. NOTE: Plumb to **COLD WATER** line only.

It is highly recommended that a water shut-off valve be located between the Ice Maker and your water supply.

NOTE: If self-piercing type valve is used to tap your water supply line, the piercing needle must be 3/16" in diameter. We do not recommend using this style of valve on plastic water lines as a pierced hole tends to reclose.

Shut off your water supply and relieve pressure before attempting to cut lines to install the Ice Maker water line.

The water supply line into the Ice Maker may be routed into the right side, bottom or back. Select the routing which best fits your needs and proceed with the following instructions for that location:

1. RIGHT SIDE WATER INLET LOCATION SEE FIG. 5, Page 5

A prepunched 1/2" dia. hole is located on the right lower side for routing the water line into Ice Maker. To route water line into the Ice Maker using this hole, do the following:

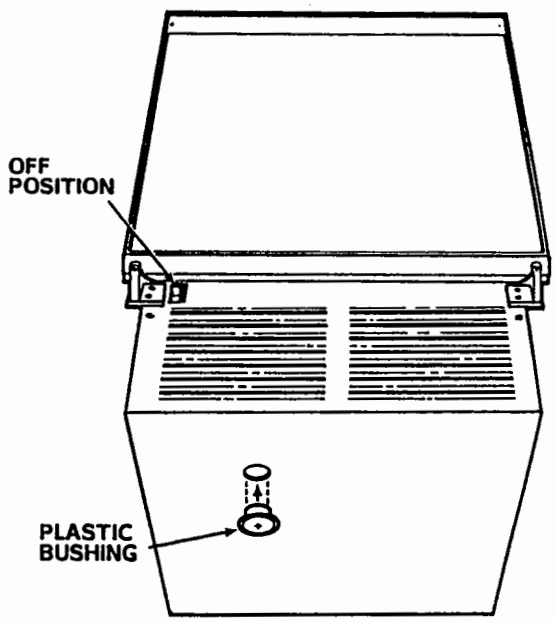
a. Install plastic bushing found in parts bag into hole in side panel.
b. Plug Ice Maker plug into wall receptacle (**NOTE:** Be sure the Ice Maker switch is in "OFF" position).
c. Slide the Ice Maker into position in previously prepared opening in wall, cabinet or enclosure.
d. Route water line up right side of Ice Maker and feed 8 to 10 inches of line through plastic bushing.
e. Go to *Section E. Connecting Water Line* to complete water line installation.

2. BOTTOM WATER INLET LOCATION
SEE FIGS. 4 & 5, Page 5

A prepunched 1/2" dia. hole is located near the front center of the Ice Maker Base Pan for routing water line into Ice Maker from the bottom. To route water line into Ice Maker using this hole, do the following:

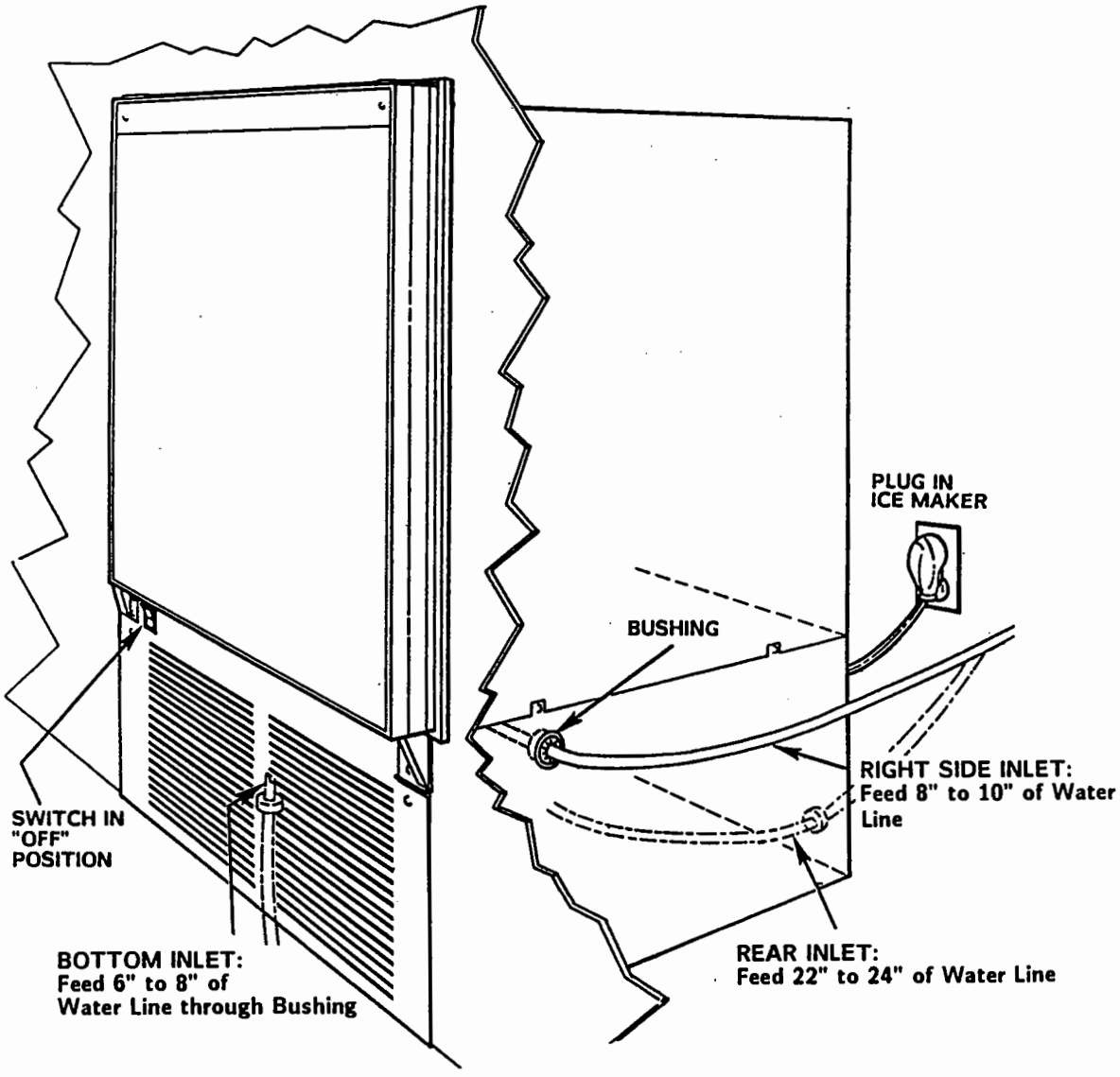
a. Lift Ice Maker up and install plastic bushing found in parts bag into hole in base pan.
b. Plug Ice Maker plug into wall receptacle. (**NOTE:** Be sure the Ice Maker switch is in "OFF" position).
c. Slide the Ice Maker into position in previously prepared opening in wall, cabinet or enclosure.
d. Feed water line up through hole in flooring and through plastic bushing. Feed 6 to 8 inches of water line into Ice Maker
e. Go to *Section E. Connecting Water Line* to complete water line installation.

FIG. 4



BOTTOM OF ICE MAKER

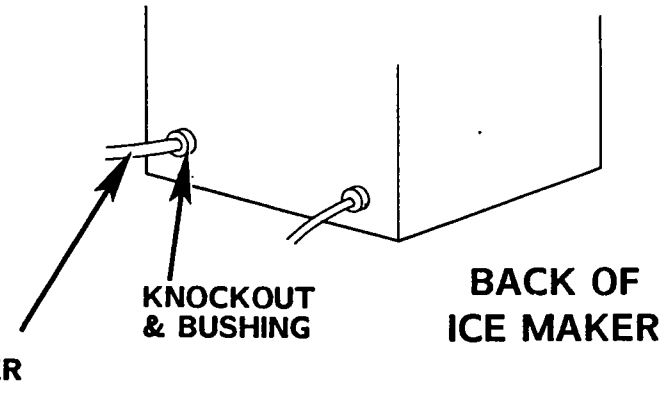
FIG. 5

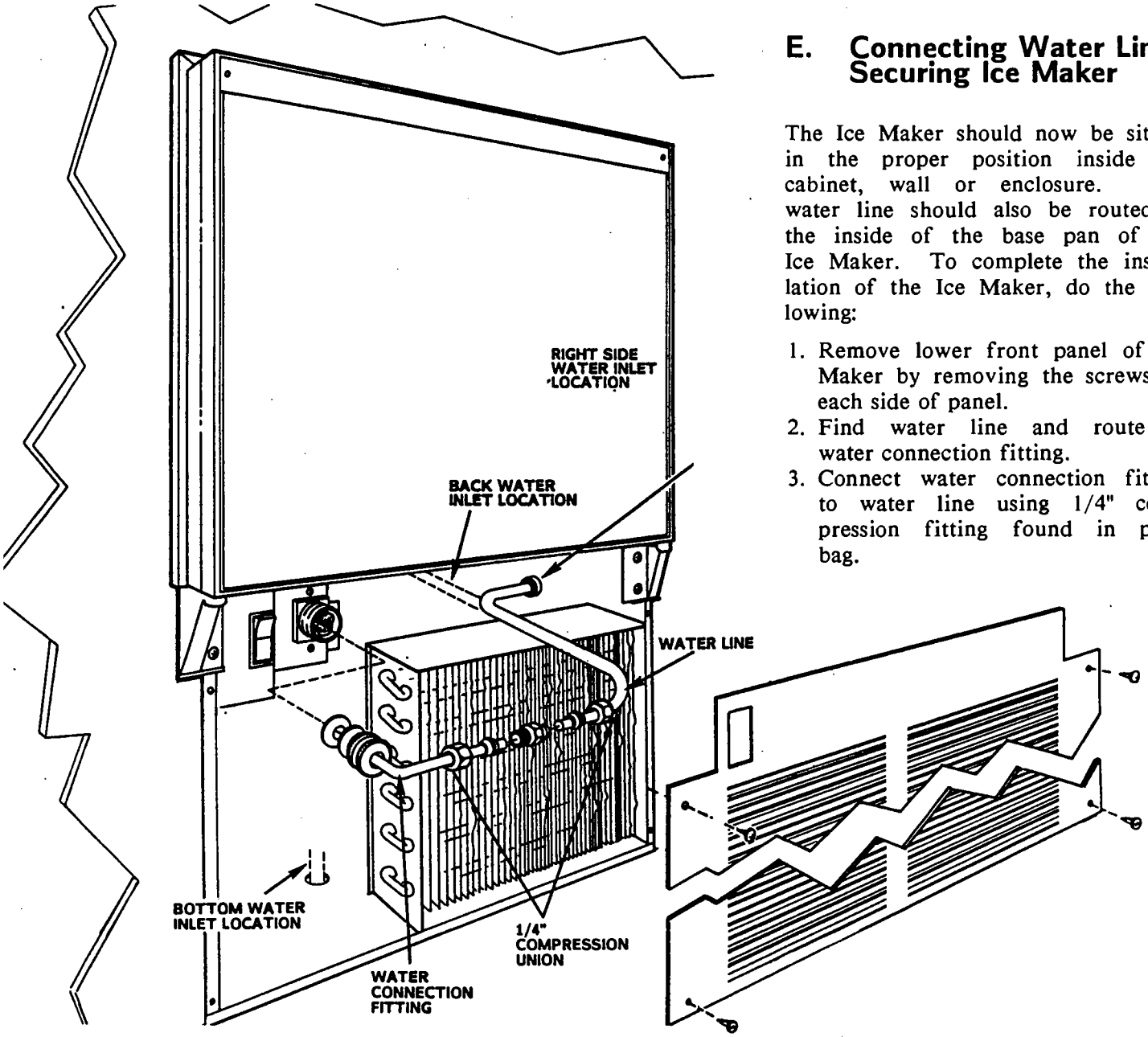


3. REAR WATER INLET LOCATION
SEE FIG. 5, Page 5

There is a 1/2 inch diameter knockout at the lower back of the Ice Maker base pan for routing water line into Ice Maker from the back. To route water line into Ice Maker at this location, do the following:

a. Remove knockout from base pan.
b. Install plastic bushing found in parts bag into hole where knockout was removed.
c. Feed 22 to 24 inches of water line through bushing just installed.
d. Plug Ice Maker plug into wall receptacle. (NOTE: Be sure the Ice Maker switch is in "OFF" position).
e. Slide the Ice Maker into position in previously prepared opening in wall, cabinet or enclosure.
f. Go to *Section E. Connecting Water Line* to complete water line installation.



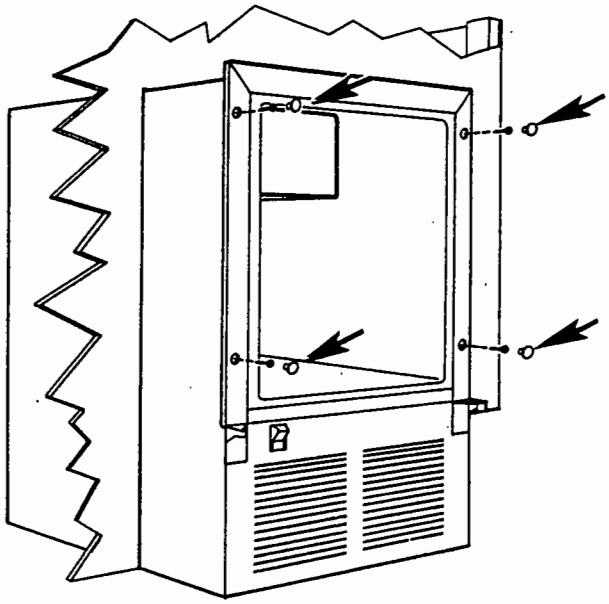


E. Connecting Water Line and Securing Ice Maker

The Ice Maker should now be sitting in the proper position inside the cabinet, wall or enclosure. The water line should also be routed to the inside of the base pan of the Ice Maker. To complete the installation of the Ice Maker, do the following:

1. Remove lower front panel of Ice Maker by removing the screws on each side of panel.
2. Find water line and route to water connection fitting.
3. Connect water connection fitting to water line using 1/4" compression fitting found in parts bag.

4. Turn on your water supply and carefully bleed air from water lines at water valve. Check for water leaks and correct as necessary.
5. Reinstall lower front panel.
6. Install two screws on each side of casing frame to secure Ice Maker to cabinet, wall or enclosure.
7. Install four plastic button plugs, found in parts bag, into holes on each side of door frame to dress-out installation.



F. Mounting Front Door Panel

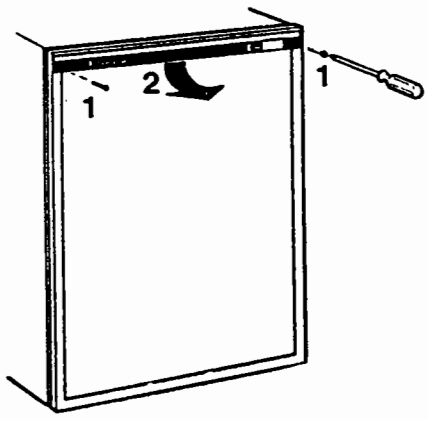
The Ice Maker is delivered without a front door panel. This is to allow you to choose a door panel which best matches your decor. To fit door panel into your door, do the following:

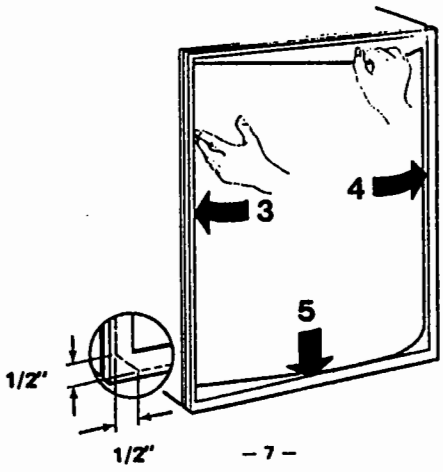
NOTE: A 5/32 inch thick panel is the maximum thickness which will fit into the door.

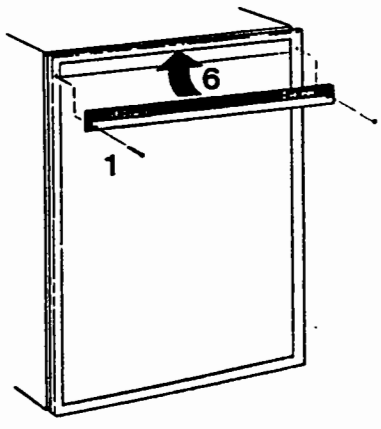
1. Cut your door panel 14-3/4" ± 1/16" wide X 14 ± 1/16" high.
2. Cut bottom corners of panel at a 45° angle, starting 1/2" in from each corner.
3. Remove two screws holding top door trim strip and remove strip.
4. Insert one vertical edge of door panel into groove of door frame.
5. Bend panel gently so that free side of panel can be slipped into groove on opposite side of door frame.
6. Push panel downward so bottom edge of panel fits into bottom door frame groove.
7. Replace the top door trim strip. (NOTE: The tab on the inside of strip fits behind the flange of door frame.) Reinstall screws securing top door trim strip.

Your Ice Maker is now installed and ready to begin supplying you with ice. Turn the switch to "ON" position. The compressor will start and as soon as harvest mechanism reaches the proper temperature, the harvest mechanism will fill with water and ice making cycle will start. The first cubes harvested may be small, this is caused by air in the lines. It will take 45 to 60 minutes for the first harvest cycle; please be patient.

The first 5 to 10 batches of ice cubes harvested may be discolored or dirty. This is due to scale being dislodged from water lines during the installation process. We recommend that all cubes made during the first 3 to 4 hours of operation be disposed of as a safety precaution.







IV. CARE AND USE OF ICE MAKER

A. Operation

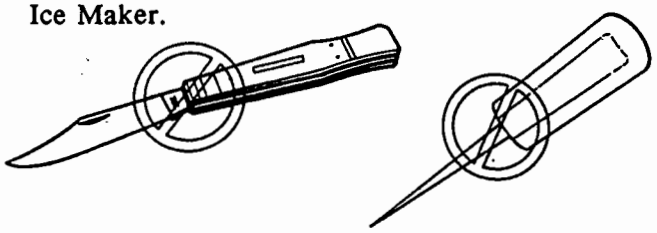
The Ice Maker is now set to make and harvest ice cubes automatically. When the ice container is full, the ice harvest mechanism will automatically stop ice cube production. As ice cubes are removed from the ice container, the ice harvest mechanism will restart and automatically refill the ice container.

When the ice container is full, the refrigeration system will continue to cycle on and off to maintain compartment temperature below freezing. Under maintenance conditions, the cubes may stick together. If cubes stick together they may be easily separated by hand, or hitting with a blunt tool.

Your ice cubes may appear cloudy (not crystal clear). This is normal. The cloudy appearance is due to air being trapped in the water due to fast freezing in the Ice Maker. This does not affect the health, taste or chemical makeup of the water.

PRECAUTIONS:

1. NEVER use an ice pick, knife or other sharp instrument near or inside the Ice Maker. These items may damage the interior of the Ice Maker.



2. ALWAYS keep the lower front panel free of all obstructions. Obstruction in this area will interfere with the free air movement in and out of the Ice Maker. This may cause faulty operation.
3. DO NOT operate Ice Maker without ice container in place.

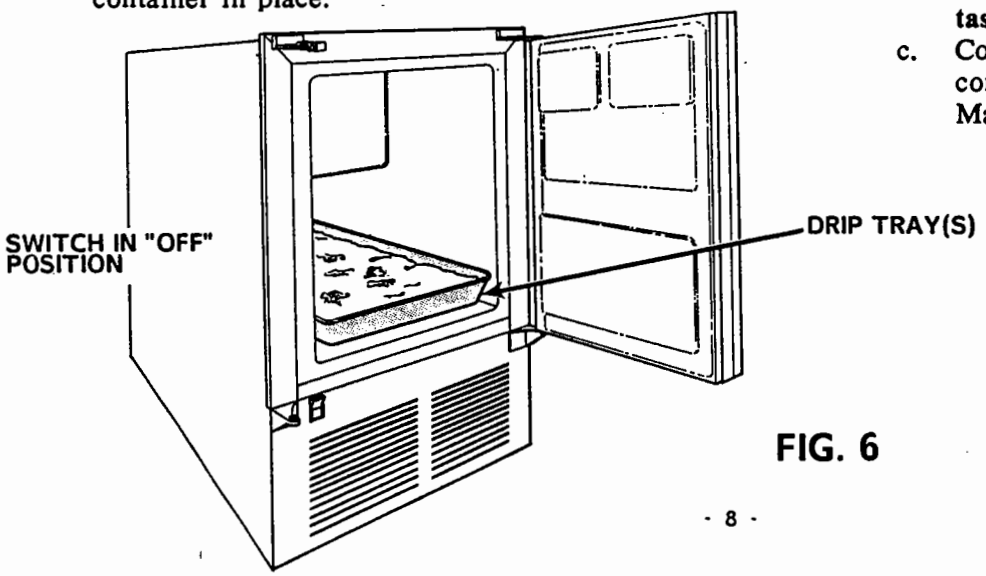


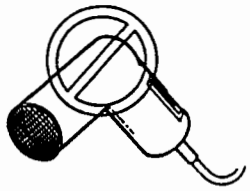
FIG. 6

B. Defrosting and Cleaning (Fig. 6)

When frost builds up over 1/2 inch thick on any surface, it is recommended that you defrost the Ice Maker. Frost over 1/2 inch thick acts as insulation which greatly reduces the freezing efficiency of the Ice Maker. Frost in some areas inside the Ice Maker may cause ice production to stop entirely.

To defrost and clean the interior of the Ice Maker, do the following:

1. Shut Ice Maker off by moving switch to "OFF" position.
2. Remove the ice container.
3. Place a shallow pan inside the ice compartment to collect melted frost.
4. Prop the door fully open and let frost melt by action of room temperature.
   NEVER: Use sharp instruments to remove ice or frost as you may damage interior of Ice Maker.
   NEVER: Use hot air blowers to speed melting of ice or frost, as you may damage plastic components and unit insulation.



5. When defrosting is complete:
   a. Remove drip trays.
   b. Wash interior surfaces with warm water to which a little baking soda has been added. CAUTION: **Never use solvent cleaning agents, abrasives, cleansing pads or scouring cleaners as these items will damage interior of Ice Maker and may affect the taste of future ice cubes.**
   c. Completely dry interior, replace ice container, close door and restart Ice Maker.

V. MAINTENANCE

A. Storing

Whenever the Ice Maker will be out of service for any length of time, it is recommended that the following procedure be followed:

1. Defrost the Ice Maker per defrosting instructions.
2. Shut off water supply to Ice Maker.
3. Turn Ice Maker switch to "OFF" position.
4. Use travel latch to lock door in partially open position.

B. Adjusting Water Fill

If the ice cubes are small or if water mold overfills, the water fill screw needs adjustment. To do this:

1. Open door and remove cover from front of the ice harvest mechanism.
2. Locate the water fill adjustment screw.
3. Turn "+" or "-", depending upon condition you wish to correct. DO NOT turn over one full turn at any one time.
4. Replace cover on ice harvester and close door.

C. Reversing Door Swing (Fig. 7)

If you wish to have the door of your Ice Maker swing from the opposite side, do the following:

1. Unscrew latch mechanism screw and remove latch.
2. Unscrew top door hinge pin and pull out. (NOTE: Door will be completely loose and fall off at this point).
3. Lift door off bottom hinges and hinge pin.
4. Move bottom hinge pin to opposite side and install in bottom hinge.
5. Carefully pry the top bearing and latch bar from the top corners of door frame and switch them to the other side.
6. Place door on bottom door hinge pin and swing up into position under upper door hinge.
7. Reinstall top door hinge pin in hinge and down into door bearing.
8. Reinstall latch mechanism and screw.

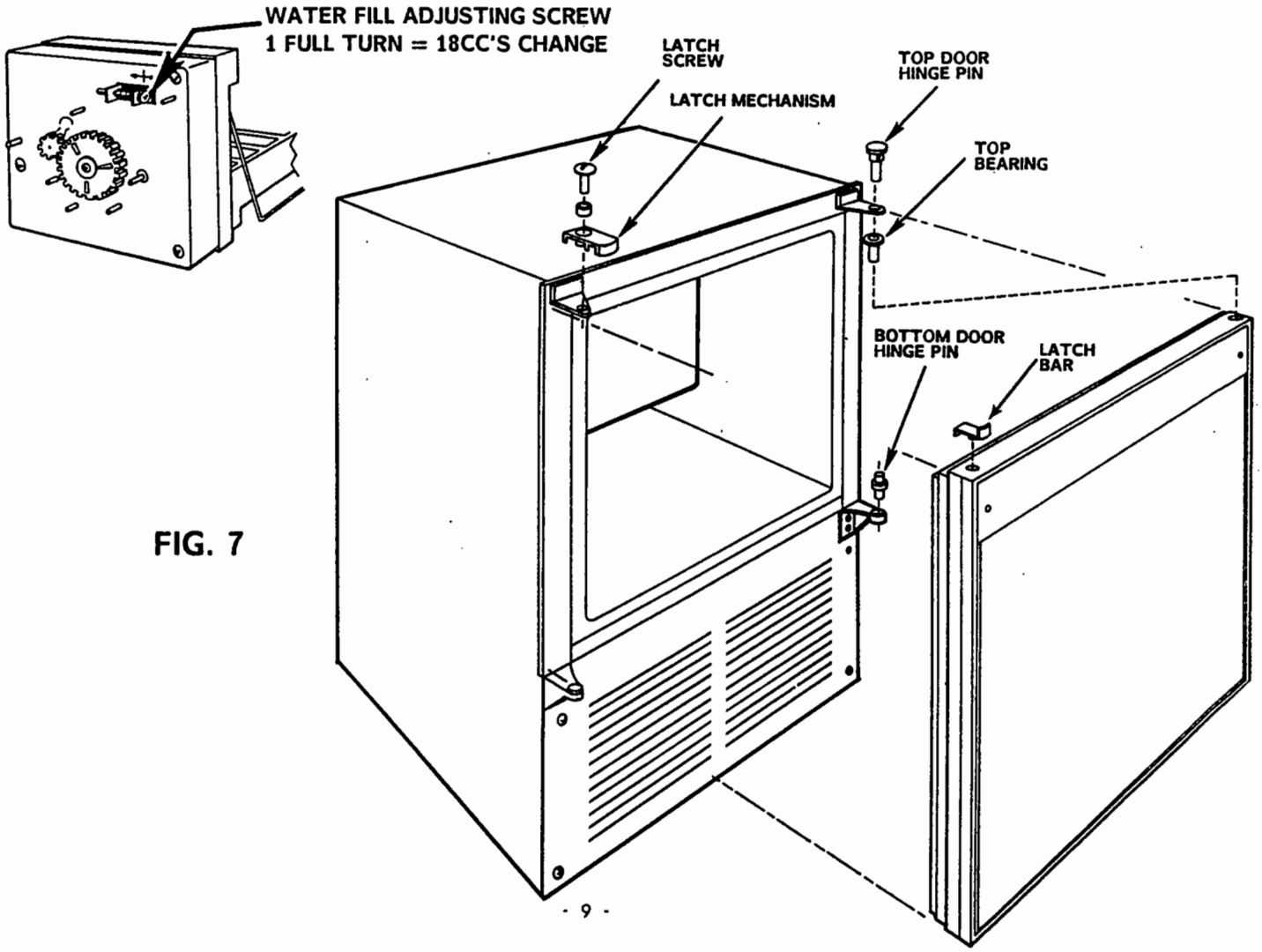


FIG. 7

VI. SERVICE

If your Ice Maker fails to operate or operates improperly, check the following items before calling your service center.

A. Check to see if Ice Maker switch was inadvertently turned off.

B. Check to see if the Ice Maker plug is in wall receptacle.

C. Check to see if Ice Maker needs defrosting.

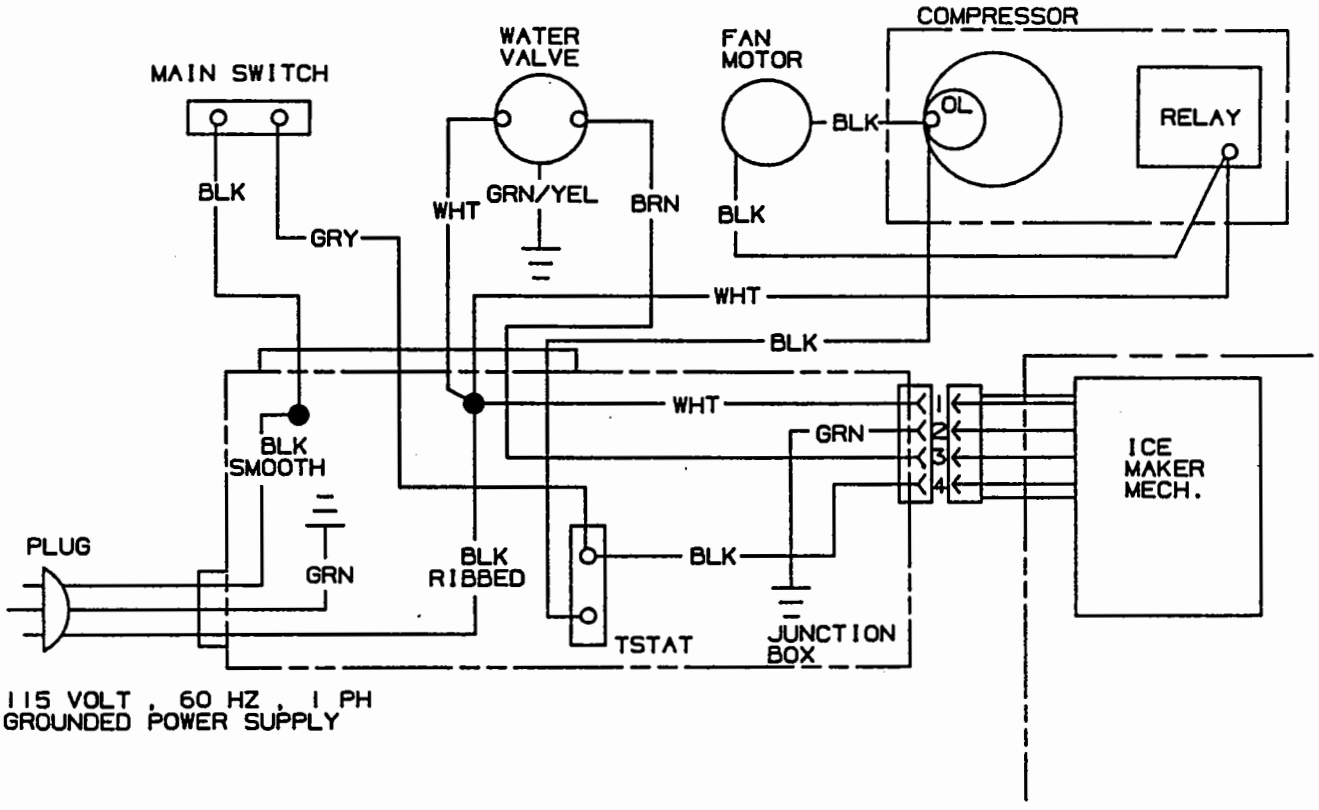
D. If the Ice Maker is connected to a motor generator electric power source, check to be sure the motor generator is running and producing power at the proper voltage.

E. Check your fuse or circuit breaker to see if it is open.

F. Check to see if water is available to Ice Maker and adequate water pressure is present.

After making the above checks, call your local service center for further help. When calling for service, always give your Ice Maker Model Number and Serial Number. These numbers can be found on the rating plate located behind the lower front panel.

WIRING DIAGRAM



AVOID SERVICE - - CHECKLIST

Before you call for service, review the following list, it may save you time and expense.

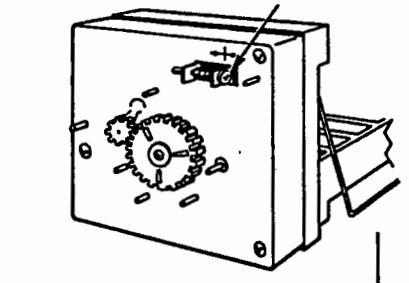
The list includes common occurrences that are not the result of defective workmanship or materials in the appliance.

SERVICE CHECKLIST

This list includes common occurrences that are not the result of defective workmanship or materials in the appliance.

PROBLEM	POSSIBLE CAUSE	HOW TO FIX
Ice Maker fails to start	1. Arm stuck in Up position	1. Lower arm if necessary
	2. Lack of 115V AC power	2. Make sure 115V is connected
		3. Make sure ON-OFF switch is in the "ON" position.
Ice Maker won't make ice.	1. Blades may be frozen in ice	1. Defrost the machine
	2. Switch in the "OFF" position	2. Turn Switch "ON"
	3. Check plug in wall	3. Make sure plug has been properly installed
	4. Water shut off to unit	4. Make sure all water valves have been turned on
Ice Maker freezes up	1. Bad door seal	1. Check seal around door for cuts or deformities allowing air to enter unit. Place dollar bill between door and frame. Close door and pull dollar bill out. You should feel some resistance. Have service center replace door.
Ice sticks together	1. Check door gasket for tears, check door for misalignment	1. Replace if torn, realign if necessary.
	2. Front grill is blocked	2. Make sure louvers are clean for good air flow
Have to defrost weekly	1. Recirculation of hot air	1. Check grill at front for some type of blockage
	2. Door gasket in poor condition	2. Have service center replace complete door
	3. Door not closing all the way	3. Adjust door hinge (Pg. 7)
Water in Bucket	1. Ice Maker not level in its cabinet	1. Use spirit level at lower right corner of mold assembly
	2. Poor door seal	2. Have service center replace door

PROBLEM	POSSIBLE CAUSE	HOW TO FIX
Ice is too soft & wet	1. Door ajar	1. Make sure door is closed
	2. Ice bucket is too far out	2. This could keep door from sealing so unit gets cold enough to freeze solid ice.
	3. Air not getting through grill in front	3. Make sure grill is clean. If air can not pass over coil, temperature will not get low enough
	4. Condenser fins need cleaning	4. Remove grill cover, vacuum fins of coils carefully
Keeps making ice and won't shut off	1. Shut off arm not working	1. Make sure arm is not stuck in ice cubes in the down position
	2. The end of shutoff arm is stuck under freezing tray	2. Check end of arm to make sure it is clear of bottom of ice mold
Not making enough ice	1. Control set to warm	1. Have service center reset control
	2. Recirculation of hot air	2. Make sure front grill is clean and clear
	3. Large cubes	3. Adjust water fill screw **Adjusting Water Fill:** If the ice cubes are small or if water mold overfills, the water fill screw needs adjustment. To do this: 1. Open door and remove cover from front of the ice harvest mechanism. 2. Locate the water fill adjustment screw. 3. Turn "+" or "-", depending upon condition you wish to correct. <u>DO NOT</u> turn over one full turn at any one time. 4. Replace cover on ice harvester and close door.
	4. Fan motor not running	4. Have service center check
	5. Dirty condenser coil	5. Remove lower front grill and vacuum
Too much water is coming out	1. Water fill adjustment screw set wrong	1. Re-adjust fill screw (see adjusting water fill)
	2. Solenoid valve leaking	2. Should be replaced by service company



WATER FILL ADJUSTING SCREW
1 FULL TURN = 18 CC's
CHANGE

PROBLEM	POSSIBLE CAUSE	HOW TO FIX
Ejector blade frozen into ice cubes	1. Too much water coming in	1. Adjust water fill screw (see previous example) 2. Defrost machine
How to keep cubes from sticking together	1. Door gasket damaged	1. Make sure gasket seals on all four sides. Put dollar bill between frame and door. Pull out, you should feel resistance.
	2. Weight or compression of ice causes ice to melt together	2. Remove ice from time to time and store in refrigerator/freezer
Unit is hooked up but no water comes in	1. Water not turned on	1. Check water supply 2. Check to make sure all water valves are open
	2. Plugged filter screen at solenoid valve	3. This screen is part of the solenoid valve. Have service center repair
Ice Maker is running but won't make any cubes	1. No water	1. Make sure water has been turned on
	2. Bail arm jammed in up position	2. Remove ice so arm can drop to off position
Unit will not eject ice	1. Ice Maker blade assembly is frozen	1. Defrost unit
Compressor won't run	1. No power	1. Make sure unit is plugged into a 115 volt outlet
	2. Check ON and OFF switch	2. Switch on front of unit in the ON position 3. If above are ok, suggest unit be taken to service center
Door not closing correctly	1. Out of alignment	1. Hinge adjustment Loosen mounting screws, adjust door and tighten screws, shim door hinge if necessary

PROBLEM	POSSIBLE CAUSE	HOW TO FIX
Compressor runs all the time	1. Not enough return air getting back into unit	1. Remove front grill and check coil for obstructions
	2. Condenser Dirty	2. Clean condenser coils
Unit leaks water	1. Check installation	1. Unit should be level when coach is level
		2. Make sure all water fittings are tight
What size should ice cubes be?	This depends on the amount of water entering the mold. The approximate size is: 1/2" W X 3/4" H X 2-1/2" L.	