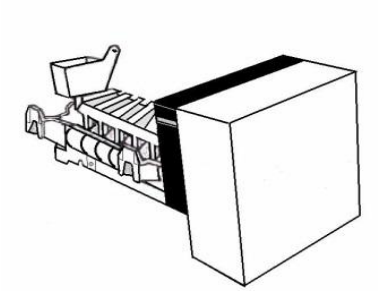
Installing A Replacement Icemaker

To manufacture ice the freezer must be at 3° F or colder.



1.) Allow several hours for freezer to cool down to 3° F. If freezer does not cool down to 3° F, adjust thermostat to colder temperature or repair the freezer.

1.) Turn Off Power & Water

2.) Loosen top two mounting screws and remove the bottom mounting screw.

3.) Lift out old icemaker, making sure not to damage the fill tube.

4.) Unplug old icemaker from freezer wall.

5.) Remove old icemaker cover, and release the old harness (there is a tab on the left side low in the black portion of the control head, depress the tab to release old wiring harness).

6.) Save the old wiring harness and mounting brackets, you will need them to install this replacement icemaker.

7.) Plug wiring harness into replacement icemaker. Replace icemaker cover.

8.) Reattach any hardware or mounting brackets. Plug icemaker back into freezer.

9.) Mount icemaker back in the freezer the same way that it was previously mounted. Make sure to level the icemaker front to back and left to right. Then tighten the screws.

10.) Turn water and power back on.

11.) Lower the arm on the icemaker to turn the icemaker on. **Water will not flow until the icemaker has chilled down to 3° F**. It can take several hours to chill. If there is air in the water line it might take a full day to make ice.

12.) Throw away the first several trays of ice. If there was stagnant water in the water line, water filter, or water reservoir the water will have a bad taste.

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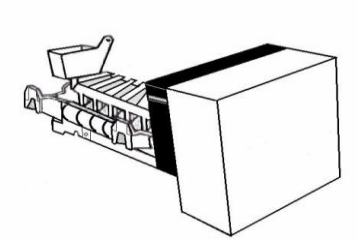
Test cycling the Modular Icemaker

Caution ! **Do not adjust the water flow control to initiate water flow. This will destroy the main module.**

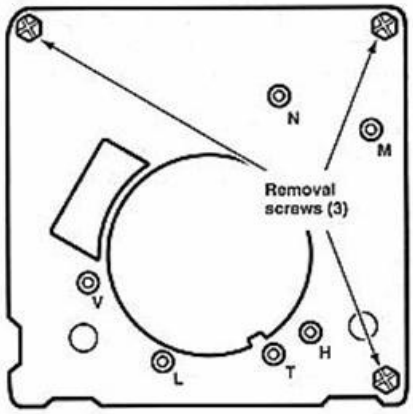
The design of the modular icemaker allows the service technician to test all of the components without removing the icemaker. Testing and repairs should be done by a trained service technician. Any other testing voids the warranty.

Remove the front cover.

Do this by grabbing the front square portion of the icemaker and pulling it towards you. The cover should come off easily. This will expose the main module.



Module test points



N = neutral side of the line
M = motor connection
H = heater connection
T = thermostat connection
L = L1 side of line

V = water valve connection

Do not adjust the removal screws, this will loosen the main module.

Do not adjust the water level screw on the right side of the case. This adjustment is covered in the troubleshooting procedures.

Warning ! Live Voltage Testing

The following tests are done using insulated volt meter test probes with test tips at least 1/2" long. Gently insert test probes into test points. Do not push or force the test probe, this will damage the module inner workings. The probe should be able to insert 1/2" to the test point.

Icemaker is plugged in and freezer is at 3°F, shut off arm is down [on position]

1.) Test points L & N : are used to verify 120 VAC . If 120 VAC is not present, the icemaker is not installed properly or the wrong wiring harness has been used.

2.) Test points T & H : If you read 120 VAC, then the thermostat is open, If voltage present at points L & N and not present at points T & H, then the thermostat is open.

3.) Using an insulated piece of 14 gauge solid wire stripped to 1/2", short across T & H to run the motor. If the motor does not run, replace the module [IMM8366] or icemaker. If the motor does run and the freezer is at or below 3° F, then replace the icemaker. **NOTE: This icemaker must be at 3°F or colder to cycle or add water.**

4.) If you run the motor 1/2 cycle [notch on large gear will be at 11:00 o'clock position], then the mold heater [bottom metal frame] will heat up. If it does not heat the heater is bad, replace entire icemaker.

5.) Remove the jumper wire, make sure the freezer is cold enough [3° F] to close the harvest thermostat. The water valve should energize and add water for about 8 seconds.

Note: Do not short any terminals other than those listed, this will damage the icemaker.

Icemaker unplugged from freezer

1.) Test points L& H will check the resistance of the heater. With the main gear at 5:30 [ejector arm will be at 1:30], the resistance should read 72 Ω ± 10. If the resistance is greater than 82 Ω or less than 62 Ω, replace the icemaker, the heater is bad.

Diagnosing and Checking Procedures for the Modular Icemaker

Complaint:	Probable Cause	Corrective Action
No Ice	1.) Freezer is not cold enough. Icemaker will not make ice or even add water unless freezer is 3° or colder.	1.) Allow several hours for freezer to cool down to 3° F. If freezer does not cool down to 3° F, adjust the thermostat to colder temperature or repair the freezer.
	2.) Arm is in up [OFF] position	2.) Depending on the model; Free arm and/or lower the arm.
	3.) No power to the icemaker	3.1) Loose wire in one of the connectors, replace wiring harness. 3.2) Thermal fuse bad in harness. Replace wiring harness
	4.) No water to icemaker	4.1) Make sure freezer is cold enough, water will not flow into icemaker if freezer & icemaker are not 3° F or colder. 4.2) Water supply is off, turn on water supply. 4.3) Check water supply saddle valve, replace if reduced flow. 4.4) Check water valve on the freezer, replace if needed. 4.5) Replace modular head.
	5.) Icemaker fails to complete a cycle.	5.1) Check the mold heater. If bad replace the icemaker. 5.2) Replace modular head.
	6.) Water filter clogged	6.) Replace water filter. If the size of the ice cube slowly gets smaller the water filter is gradually clogging up. If this happens suddenly look for a water works or construction project that might have ruptured a water main and put dirt and sediment in the line.
Low Ice	1.) Freezer not cold enough	1.) Allow several hours for freezer to cool down to 3° F. If freezer does not cool down to 3° F, adjust thermostat to colder temperature or repair freezer.
	2.) Arm operation intermittent	2.1) Arm is not installed properly, align arm and click into place. 2.2) Arm is blocked by something [ice build up or other item in freezer. Free arm and turn icemaker on [Arm down]
	3.) Water supply problem	3.1) Check water valve for adequate pressure [20 PSI or better]. You can also check flow rate [130cc to 150cc in 8 seconds]. 3.2) Check water supply saddle valve, replace if reduced flow.

Diagnosing and Checking Procedures for the Modular Icemaker [continued]

Complaint:	Probable Cause	Corrective Action
Low Ice [continued]	3.) Water supply problem [continued]	3.3) Water not staying on for 8 seconds, incomplete fill. It is very unusual to need to adjust the water fill. It typically only needs to be adjusted if there was a new water valve installed with a non-standard flow rate. To adjust, turn screw clock-wise up to one turn to decrease water amount. [1/2 turn equals 20cc or 1.2 seconds]. Turn counter-clockwise to add water. **DO NOT adjust the water flow more than one turn, this will damage the main module. Changing this setting will not make water flow into the icemaker. See "no ice procedure" if no water flows into the icemaker.**
	4.) Water supply problem [continued]	4.1) Harvest thermostat is short cycling, replace the icemaker.
	5.) Water filter clogging up	5.) Replace water filter. If the size of the ice cube slowly gets smaller the water filter is gradually clogging up.
Too Much Ice	1.) Arm stuck in down position or not moving	1.1) Arm is not installed properly, align arm and click into place.
		1.2) Arm is blocked by something [ice build up or other item in freezer. Free arm and turn icemaker on [Arm down].
	2.) Broken shut off activator [in modular head]	2.1) Replace the icemaker or the module.
	3.) Too much water	3.1) Check water valve. If fill tube freezes up or continues to drip, replace water valve. If water flows too long, check to see if valve is shutting off.
		3.2) Water is staying on for more than 8 seconds and overflowing. It is very unusual to need to adjust the water fill. It typically only needs to be adjusted if there was a new water valve installed with a non-standard flow rate. To adjust, turn screw clock-wise up to one turn to decrease water amount. [1/2 turn equals 20cc or 1.2 seconds]. Turn counter-clockwise to add water. **DO NOT adjust the water flow more than one turn this will damage the main module. Changing this setting will not make water flow into the icemaker. See "no ice procedure" if no water flows into the icemaker.**
	4.) Icemaker fails to stop at the end of cycle or stops in the middle of a cycle	4.) Check modular head and replace if needed.