# Installation Instructions for RIM597 when using the lift arm.
# Designed to replace part numbers: 2198597, W10122502, W10190960, 2198678, & 626663

## WARNING !

**TO AVOID POSSIBLE ELECTRICAL SHOCK, WHICH CAN CAUSE DEATH OR SERIOUS INJURY, ALWAYS DISCONNECT POWER FROM THE APPLIANCE BEFORE ATTEMPTING ANY REPAIRS OR MODIFICATIONS.**

Make sure that the water supply is filtered and micro biologically safe. Make sure that the water supply is not routed through a water softener as those chemicals will destroy the ice mold. Do not route the water supply line through an area exposed to freezing temperatures.

**NOTE: RIM597 doesn't include a lift arm. It is designed to work with a sensor. If your refrigerator model requires a lift arm, you must use the lift arm from the old ice maker.**

**AFTER INSTALLATION THE ICEMAKER MUST COOL DOWN TO 3°F BEFORE IT WILL OPERATE. THIS ICEMAKER WILL "WAKE UP" AFTER IT REACHES 3°F. AT THAT TIME, THE ICEMAKER WILL CALL FOR WATER.** It will take from 2 hours to 24 hours after the ice maker is installed to make the first batch of ice, if the freezer is continuously at or below 3°F. Be sure to throw away the first 2 or 3 trays of ice. These will taste like stagnant water from water that has been standing in the supply line. Manufacturer recommends that this freezer temperature be set between 0°F and 5°F for optimum ice production.

## Instructions to change ice maker.

1.) Loosen top two mounting screws. Remove bottom mounting screw.
2.) Lift out old icemaker. Make sure not to damage the fill tube.
3.) Unplug wiring harness. There is a clip on the connector that you will need to lift to unplug the connector.
4.) Save the old icemaker hardware, you will need this hardware to install the new icemaker. Compare the old wiring harness to the new wiring harness. If they are not identical, you will need to use your old wiring harness. To release
5.) Remove the front cover, it pulls off. While facing the drive gear, look to the lower left-hand side of the control head. You will see where the cable plugs in . Press the tab and release the harness. Insert your old harness until it locks. Replace front cover.
6.) At the back of the icemaker, there is a fill cup. There are pre-scored lines on the fill cup. Use a sharp knife to cut out the side that you need for your application.
7.) Attach any hardware or mounting brackets from your old icemaker to the replacement icemaker. Plug new icemaker back into the freezer.
8.) Mount the icemaker back into the freezer, making sure not to damage the fill tube as you install it.
8.) Level the icemaker left to right and front to back, before tightening the screws. Make sure the thermal fuse on the wiring harness is clipped securely to the icemaker frame.
9.) Attach the lift arm. The lift arm turns the icemaker on and off. Engage the lift arm in the front and through the fill cup bearing in the back. While looking across the icemold from the rear of the icemaker you will see a white round recess with a slot in it. The offset on the lift arm will push into this slot and lock. After locking the lift arm in place, put the lift arm in the down position to turn on the icemaker.

Do not adjust the icemaker! The icemaker will need to cool down to 3°F before it will add water. If water has not filled the icemold, after the freezer has cooled to 3°F and 24 hours has past. See troubleshooting guide.

# Installation Instructions for RIM597 when using in the door sensor instead of lift arm. Designed to replace part numbers: 2198597, W10122502, W10190960, 2198678, & 626663

## WARNING !

**TO AVOID POSSIBLE ELECTRICAL SHOCK, WHICH CAN CAUSE DEATH OR SERIOUS INJURY, ALWAYS DISCONNECT POWER FROM THE APPLIANCE BEFORE ATTEMPTING ANY REPAIRS OR MODIFICATIONS.**

Make sure that the water supply is filtered and microbiologically safe. Make sure that the water supply is not routed through a water softener as those chemicals will destroy the icemold. Do not route the water supply line through an area exposed to freezing temperatures.

**NOTE: AFTER INSTALLATION THE ICEMAKER MUST COOL DOWN TO 3°F BEFORE IT WILL DO OPERATE. THIS ICEMAKER WILL "WAKE UP" AFTER IT REACHES 3°F. AT THAT TIME, THE ICEMAKER WILL CALL FOR WATER.** It will take from 2 hours to 24 hours after the icemaker is installed to make the first batch of ice, if the freezer is continuously at or below 3°F. Be sure to throw away the first 2 or 3 trays of ice. These will taste like stagnant water from water that has been standing in the supply line. Manufacturer recommends that this freezer temperature be set between 0°F and 5°F for optimum ice production.

## Instructions to change icemaker.

1.) Remove the ice bucket from the door. This will provide more room to work.
2.) Cover the sensor flapper with a piece of tape to hold it down to prevent damage to the sensor while removing the old icemaker.
3.) Remove the icemaker service door by spreading the two hinge fingers apart [away from the center]. The door should lift out of the slot.
4.) Remove the screw in the right rear bottom side of the icemaker. You will be able to lift the cover from the rear. Work it out from the rear gently. You will see the electrical harness.
5.) On the left hand track there is a tab toward the bottom. You will need to push up on this tab and start working the icemaker towards you, pulling the icemaker out of the track.
6.) If the ice cubes are hollow or small then check the water filter. Reduced flow from the water filter can cause this. Replace the water filter.
7.) If the ice tray overflows on fill and some cubes are smaller than other cubes, then the icemaker is not fully seated. Reinstall the icemaker making sure the icemaker is properly seated.
8.) To install the replacement icemaker, reverse the steps and install the icemaker the same way that it came out.
9.) Level the icemaker left to right and front to back, before tightening the screws. Make sure the thermal fuse on the wiring harness is clipped securely to the icemaker frame.

If water has not filled the icemold, after the freezer has cooled to 3°F and 24 hours has past. See troubleshooting guide.

# Troubleshooting guide for models using the RIM597 icemaker with control board

## This icemaker is operated by a control board with a separate emitter.

## Checking the optics: make sure the ice bin is in place before proceeding.

1.) The icemaker control board tells the icemaker when the ice bin is full. If the bin is full the red beam of light will be blocked by the ice and the icemaker will not harvest. You can remove ice from the bin to allow the beam to shine from the emitter to the control board. If the ice is ready to harvest the icemaker will be able to dump ice.

2.) A good icemaker control board is indicated by a steady red beam of light when you open the freezer door and hold the flipper on the left side wall in. If there is a:

- A.) Blink - blink - pause - blink - blink- pause continuously, then replace both controller boards.
- B.) Blink - blink - blink - blink - pause repeated once, then the relay is bad. Replace both optic boards.
- C.) Blink - blink - blink - pause repeated once, then the relay is good. The freezer has not recognized the icemaker. Check all connections and alignment.
- D.) Steady red light for 5 seconds the relay is good and the icemaker has been recognized by the control board. If the freezer has been at 0° to 3°F for 24 hours and the icemold has not filled then check the water supply and the icemaker water valve.
- E.) No light, unplug the refrigerator for about a minute. This allows the control board to reset.

## Checking the water supply:

1.) If the ice cubes are hollow or small then check the water filter. Reduced flow from the water filter can cause this. Replace the water filter.

2.) If the ice tray overflows on fill and some cubes are smaller than other cubes, then the icemaker is not fully seated. Reinstall the icemaker making sure the icemaker is properly seated.

**Level the icemaker left to right and front to back, before tightening the screws. Make sure the thermal fuse on the wiring harness is clipped securely to the icemaker frame.**



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# 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 thermostat to colder temperature or repair freezer. |
| | 2.) Arm is in up [OFF] position | 2.) Depending on the model; Free arm and/or lower the arm. Replace ice bin on some models. |
| | 3.) No power to the icemaker | 3.1) Loose wire in one of the connectors, replace wiring harness.<br>3.2) Thermal fuse bad in harness. Replace wiring harness 4.1) Make sure freezer is cold enough, water will not flow into icemaker if freezer & icemaker are not 3° F or colder. |
| | 4.) No water to icemaker | 4.2) Water supply is off, turn on water supply.<br>4.3) Check water supply saddle valve, replace if reduced flow.<br>4.4) Check water valve on the freezer, replace if needed.<br>4.5) Replace modular head |
| | 5.) Icemaker fails to complete a cycle. | 5.1) Check mold heater if bad replace icemaker<br>5.2) Replace modular head |
| **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.<br>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.<br>3.2) Check water supply saddle valve, replace if reduced flow.<br>3.3) Level Ice maker. |

Diagnosing and Checking Procedures for the Modular Icemaker [continued]

| Complaint: | Probable Cause | Corrective Action |
|---|---|---|
| **Low Ice** [continued] | 3.) Water supply problem [continued] | 3.4) 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] 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 ice maker see no ice procedure if no water flows.** |
| | 4.) Water supply problem | 4.1) Harvest thermostat is short cycling replace ice maker. |
| **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.<br>1.2) Arm is blocked by something [ice build up or other item in freezer. Free arm and turn ice maker on [Arm down] |
| | 2.) Broken shut off activator [in modular head] | 2.1) Replace ice maker or 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.<br>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] 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 ice maker, see no ice procedure if no water flows.** |
| | 4.) Icemaker fails to stop at the end of cycle or stop[s] mid cycle | 4.) Check modular head and replace if needed. |