Manitowoc®

SERVICE COMMUNICATOR

Subject: "T STYLE" ICE THICKNESS AND WATER LEVEL PROBE CLEANING

ICE THICKNESS PROBE FUNCTION

The ice thickness probe provides input to the control board. The ice thickness probe sends two signals:

1. Water is not contacting the probe.
   When water is not in contact with the ice thickness probe, the control board will remain in the freeze cycle.
2. Water is contacting the probe.
   When water contacts the ice thickness probe for 7 continuous seconds and the six minute freeze cycle lock-in has passed, the control board will initiate a harvest cycle. Refer to Service Manual or Technicians Handbook for sequence of operation and diagnostic procedures.

ICE THICKNESS PROBE FAILURE

The symptom of a faulty ice thickness probe is "Ice Machine Will Not Harvest".

The symptom "Premature Harvest" means the ice thickness probe needs to be adjusted or cleaned.

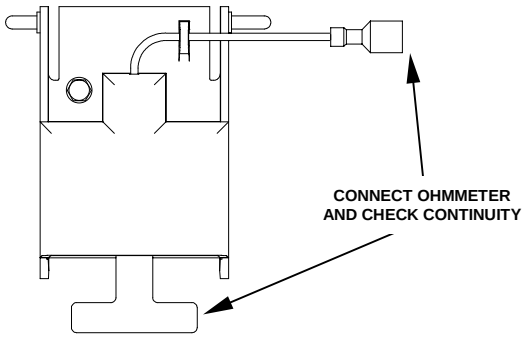
Cleaning, maintenance and adjustments are not covered by the ice machine warranty. All ice thickness probes replaced during the warranty period will be inspected. Part and labor claims will be denied for a no defect or dirty ice thickness probe.

ICE THICKNESS PROBE CHECK:

1. Disconnect power to the ice machine.

> **Warning**
> Line voltage is present in the control box regardless of the toggle switch position.

2. Disconnect the ice thickness probe wire from terminal 1C on the control board. The ice thickness probe can be checked in or out of the ice machine.
3. Attach an ohmmeter to the stainless steel tee and the wire connector. Set the meter to the Ohm scale and check for continuity. (0 to 150 Ω indicates a good probe)



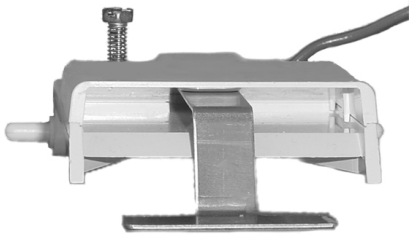
Continuity Reading – The ice thickness probe is functioning correctly. Clean, rinse and dry the ice thickness probe.

No Continuity Reading – The connector or wire lead is faulty. Replace the ice thickness probe.

ICE THICKNESS PROBE CLEANING

Refer to Installation, Use and Care Manual, Service Manual or Technicians Handbook for ice machine cleaning and sanitizing procedures.

1. Mix a solution of Manitowoc ice machine cleaner and water (2 ounces of cleaner to 16 ounces of water) in a container.
2. Soak ice thickness probe in container of cleaner/water solution while disassembling and cleaning water circuit components (soak ice thickness probe for 10 minutes or longer).
3. Clean all ice thickness probe surfaces including all plastic parts (do not use abrasives). Verify the ice thickness probe cavity is clean. Thoroughly rinse ice thickness probe (including cavity) with clean water, then dry completely. **Incomplete rinsing and drying of the ice thickness probe can cause premature harvest.**
4. Reinstall ice thickness probe, then sanitize all ice machine and bin/dispenser interior surfaces.



CLEAN AND RINSE ALL METAL AND PLASTIC SURFACES INCLUDING CAVITY AREA

WATER LEVEL PROBE CONTINUES ON BACK PAGE

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WATER LEVEL PROBE CLEANING

WATER LEVEL PROBE FUNCTION

The water level probe provides input to the control board. The water level probe sends two signals:

1. Water is not contacting the probe.
   When water is not in contact with the water level probe, the control board will energize the water inlet valve.
2. Water is contacting the probe.
   When water contacts the water level probe for 3 continuous seconds, the control board de-energizes the water inlet valve.
   Refer to Service Manual or Technicians Handbook for sequence of operation and diagnostic procedures.

WATER LEVEL PROBE FAILURE

The symptom of a faulty water level probe is "Water Trough Overfilling In The Freeze Cycle".

The symptom "Water Will Not Run Into The Water Trough" means the water level probe needs to be cleaned.

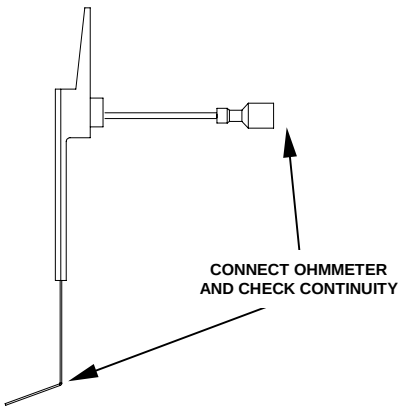
Cleaning, maintenance and adjustments are not covered by the ice machine warranty. All water level probes replaced during the warranty period will be inspected. Part and labor claims will be denied for a no defect or dirty water level probe.

WATER LEVEL PROBE CHECK

1. Disconnect power to the ice machine.

> **⚠ Warning**
> Line voltage is present in the control box regardless of the toggle switch position.

2. Disconnect the water level probe wire from terminal 1F on the control board. The water level probe can be checked in or out of the ice machine.
3. Attach an ohmmeter to the stainless steel leg and the wire connector. Set the meter to the Ohm scale and check for continuity.



Continuity Reading – The water level probe is functioning correctly. Clean, rinse and dry the water level probe.

No Continuity Reading – The connector or wire lead is faulty. Replace the water level probe.

WATER LEVEL PROBE CLEANING

Refer to Installation, Use and Care Manual, Service Manual or Technicians Handbook for ice machine cleaning procedures.

1. Mix a solution of Manitowoc ice machine cleaner and water (2 ounces of cleaner to 16 ounces of water) in a container.
2. Remove screw from water level probe. Excess water level probe wire is located in the control box. Releasing the wire bundle will allow a wider range of water level probe movement.
3. Soak water level probe in cleaner/water solution while disassembling and cleaning water circuit components (soak water level probe for 10 minutes or longer).
4. Clean all water level probe surfaces including all plastic parts (do not use abrasives). Thoroughly rinse water level probe with clean water, then dry completely.
5. Re-install water level probe and sanitize the ice machine and bin/dispenser interior surfaces.

