

S Model Ice Dispenser

SPA / SFA

Installation, Operation and Maintenance Manual

This manual is updated as new information and models are released. Visit our website for the latest manual.



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Section 1

General Information

Read This Manual

These instructions are provided to assist the qualified installer. Check your local Yellow Pages for the name of the nearest Manitowoc distributor, or call Manitowoc Foodservice; for information regarding start-up services.

Model Numbers

This manual covers the following models:

Series	Rocking Chute Operated	Card Operated	Coin Operated	Glass Fill Dispenser
S160	SPA160	SRA164	SCA163	N/A
S190	N/A	N/A	N/A	SFA191
S290	N/A	N/A	N/A	SFA291
S300	SPA310	SRA340	SCA330	N/A

These dispensers are designed to dispense both dice and half dice ice. These dispensers are used in conjunction with a Manitowoc ice machine for automatic fill of dispenser.

- S160/S190 Series Dispensers are capable of storing 120 lbs. of ice. The S160/S190 accepts a single 22" Dice or Half Dice size ice machine.
- S290/S300 Series Dispensers are capable of storing 180 lbs. of ice. The S290/S300 accepts a single 22" or 30" Dice or Half Dice size ice machine, except Series S1000 and S1200, which are not approved for use on an S Model Dispenser.

NOTE: Dispense Opening: Height 11" (28 cm), Width 14" (36 cm)

Accessories

ADAPTER KITS

22" ice machines mounted on a 30" dispenser require two adapter kits (not included with dispenser):

- K00365 adapter allows 22" ice machine to be mounted on a 30" bin.
- K00348 baffle prevents ice from contacting the ice machine front panel.

INCLUDED BAFFLE KIT

S Model 22" & 30" Ice Machines require installation of the included baffle 5029517 (22") or K00346 (30"). This baffle prevents ice from contacting the ice machine front panel.

EARTHQUAKE KITS

Earthquake kits are available to secure the ice machine to the dispenser and the dispenser to the floor.

Serial Plate Location

Front of Dispenser — Label with Model Number and Serial Number is located behind the front panel, to the right of the rocking chute.

Back of Dispenser — A second location for the Model Number and Serial Number is on the back of the dispenser, in the upper right corner.



Front Panel Location

Section 2

Installation Instructions

Pre-Installation Checklist

- Location: Floor drain available** – A floor drain for the dispenser should be available. We recommend that you vent the drain at the back of the dispenser to reduce buildup of algae and improve drainage. Drain tubing should be 1/2" I.D. at minimum.
- Location: Avoid heat sources** – Avoid placing the ice machine near heat sources such as radiators, heating vents and direct sunlight. Avoid placing air-cooled ice machines in kitchens, due to grease, flour, or other particles, which can collect on the condenser and fan blade, increasing ice machine maintenance and reducing ice machine efficiency.
- Location: On a solid floor** – The dispenser and ice maker should be sitting on a good, solid, level floor or surface.
- Location: Do not obstruct traffic** – The dispenser should not extend from the wall in a way that obstructs traffic through the area.
- Electrical** – Proper electrical voltage is available. Receptacle is available and within six feet.
- Clearances for top and both sides of ice machine** – Use clearances specified in the ice machine's Installation, Use and Care Manual.
- Clearance behind ice machine for dispenser and drains** – The location must allow enough clearance for the water and drain connection at the rear of the dispenser.
- Back of ice machine to be flush with back of dispenser** – This allows installation of the supplied mounting clip (metal plate) which secures the ice machine to the dispenser.
- Separate drains** – a separate drain line is required for the ice machine, in addition to a drain line for the S Series Dispenser. Vent all drain lines.
- Water filtration** – Water filtration is strongly recommended in order to increase the performance of the ice machine and reduce maintenance costs.

For full information about ice machine installation, including plumbing lines, connections and electrical requirements, see the ice machine installation manual.

Warning

Never use an extension cord. If an electrical outlet is not within six feet, have proper amperage outlet installed. The dispenser must be grounded in accordance with all local and national electrical codes.

Electrical

 **Warning**

All wiring must conform to local, state and national codes.

SPECIFICATIONS

Electric Voltage – Cycle – Amp.*	120 Volt – 50/60 Hz./1 Ph. – 1.8 amp
	220 Volt – 50/60 Hz./1 Ph. – 1.8 amp
	230 Volt – 60 Hz./1 Ph. – 1.8 amp
	240 Volt – 50 Hz./1 Ph. – 1.8 amp
Motor Horsepower	1/7 HP
Fuse Size	15 amp maximum
Ship Weight	187 pounds
Operating Temperature Range	40°F minimum – 110°F maximum (4° – 43°C)

*120 Volts – 60 Hz. – 1.8 amp (U.S. Standard) (Eight foot cord with plug is included with the U.S. Standard unit)

GROUNDING INSTRUCTIONS

 **Warning**

The dispenser must be grounded in accordance with national and local electrical codes.

This appliance must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

 **Warning**

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment grounding conductor. If repair or replacement of the cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance — if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

Installation Procedures

Warning

Do not attempt to move a dispenser without first removing the ice machine. The combination can be unstable and could tip, causing serious injury.

1. Review the Pre-Installation Checklist; then make sure all utility and space requirements are present at the installation site.
2. Remove the carton top from the dispenser.
3. Remove the legs and other accessories from inside the dispenser bin.
4. Remove the carton from the sides of the dispenser.
5. Remove the dispenser from the shipping pallet.
6. Flatten the shipping carton.
7. Lay the dispenser on its back; on the carton.
8. Thread the legs into the bottom of the dispenser.
9. Set the dispenser upright.
10. Place the dispenser in the desired location.
11. Make sure the dispenser bin top is level. A level bin is important for proper operation of the ice machine.
12. Place the ice machine on top of the dispenser at this time.
13. Connect the drain of the dispenser to the floor drain.
14. Follow local plumbing codes for drain installation.
15. If the dispenser has a water valve, connect your water line to the water connection at the back of the dispenser.
16. Test all drain and water lines for leaks.
17. Plug the dispenser into the proper electrical outlet.
18. Clean and sanitize all equipment. Follow cleaning and sanitizing instructions in this manual.
19. Adjust the ice machine according to the instructions provided with the ice machine.
20. Install ice baffle inside the ice maker compartment. Follow installation instructions supplied with ice baffle.
21. Install foam gasket on the bottom of the front panel.
22. Fill the dispenser bin one quarter full of ice or start the ice machine, allowing the ice machine to drop at least three complete batches of ice.
23. Test the ice dispensing action of the dispenser.

Installation Checklist

- Dispenser and ice machine are level?
- Drains are vented?
- Dispenser does not sit in direct sunlight?
- Dispenser does not sit in direct airflow from a heating duct?
- Bin and ice machine drains are separate?
- Ice dispensed properly?
- Dispenser is accessible for servicing?
- The warranty card was returned?
- Ice Machine ice thickness control is properly set?
- Owner was instructed on the operation of the dispenser?
- Owner knows how to clean and sanitize the dispenser?
- Owner knows how often to clean and sanitize the dispenser?
- Owner has your telephone number to call for follow-up service on the dispenser?
- You have placed one of your service stickers on the dispenser for follow-up service?

Section 3

Operation

Sequence of Operation

The operation of the S Series ice dispenser can be divided into three main operations. They are Dispenser Activation, Ice Pick-Up and Ice Delivery.

DISPENSER ACTIVATION

Dispenser activation can be accomplished with a number of different mechanisms.

- **Rocking Chute (Push for Ice) Activation** – User pushes the Rocking Chute, which energizes a microswitch. The energized microswitch engages the gearmotor.
- **Room Key Card Activation** – User places their hotel room key card into a slot on the dispenser. The room key card activates the microswitch. The user then presses the Rocking Chute (Push for Ice) for ice dispense. This action activates the gearmotor.
- **Coin Operated Activation** – User places one quarter into dispenser. The quarter activates the coin mechanism. The user then presses the Rocking Chute (Push for Ice) for ice dispense. This action activates the gearmotor.

ICE PICK-UP

When the customer activates the dispenser, the gearmotor inside the dispenser begins to turn.

The gearmotor shaft is attached to the paddle wheel inside the bin of the dispenser. As the paddle wheel turns it picks up ice from the dispenser bin. The paddle wheel will bring the pocket containing the ice to the top of the travel area.

ICE DELIVERY

When the paddle wheel pocket reaches the top of its travel, the ice falls from the paddle wheel to the ice chute opening of the dispenser bin. The bin chute then directs the ice to the door assembly dispensing 2-3 oz. of ice per second.

If the door closes before all the ice is dispensed, some ice may be held back by the door assembly. If the door is open, the ice will fall through the door and the ice chute. The ice chute will direct the ice into the customer's container.

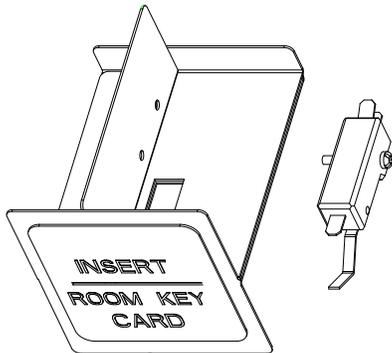
NOTE: Dispense Opening: Height 11" (28 cm), Width 14" (36 cm)

Model SFA-191/291 is equipped with an optional water valve. When the water valve lever is pressed, water flows through the system to the water valve nozzle.

Room Key Card Activation

1. User places ice bucket under ice chute.
2. User places their hotel room key card into a slot on the dispenser which is labeled "Insert Room Key Card". The room key activates the microswitch.
3. The user then presses the Rocking Chute (Push for Ice) for ice dispense. Pushing the ice chute activates the gearmotor.

The room key card must stay in the slot for the microswitch to remain activated.



Coin Operated Activation

1. User places ice bucket under ice chute.
2. User places one quarter (U.S. currency only) into dispenser.
3. The user then presses the Rocking Chute (Push for Ice) for ice dispense.

Pushing the ice chute activates the gearmotor. Ice will dispense for up to one minute for each 25 cent activation per factory setting.

Important

Coin Operated Activation will accept U.S. quarters only. No other coin is accepted and no change is returned to the user. To allow use of Canadian coins refer to instructions in this manual.

Adjustments

ADJUSTING THE COIN MECHANISM TIMER

1. Remove the control box cover. On the inside of the control box there is a white instruction label which shows how to set intervals for coin mechanism dispense times.
2. Inside the control box, the coin mechanism timer is to the left. The ice agitation timer is to the right.
3. With a small Phillips head screwdriver, adjust the coin mechanism timer. For timer adjustment reference information, see below or refer to the white instruction label inside the control box cover.
4. The timer is factory set at the midpoint for 60 seconds of dispense time. The adjustment pot can be set (counterclockwise) for as low as 12 seconds of dispense time. The adjustment pot can be set (clockwise) for as high as 120 seconds of dispense time.

ADJUSTING THE COIN MECHANISM FOR CANADIAN COINS

Important

Canadian quarters are magnetic. Therefore the magnet inside the coin mechanism must be removed so Canadian quarters will drop through the coin mechanism.

1. Remove the front panel of the dispenser. The coin mechanism can be changed while in place in the dispenser door, as shown above.
2. Pivot the coin magnet housing section away from the rest of the coin mechanism.
3. Using a small screwdriver, loosen the set screw which holds an aluminum plate in the coin magnet housing.
4. Remove the aluminum plate.
5. Using a metal screwdriver tip, pull out the magnet from the magnet housing. (The back side of the magnet has the stronger magnetic attraction.)
6. The aluminum plate and magnet have now been removed from the coin magnet housing. Pivot the empty coin magnet housing section back into place.
7. Reinstall the front door of the dispenser.

Agitation Timers

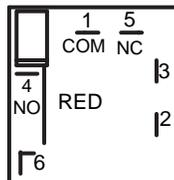
The agitation timer is standard equipment for the floor standing dispenser. The purpose of the timer is to periodically agitate the ice in the bin to prevent congealing.

TIMER WITH BLINKING LED

The LED tells the technician in which mode the timer is operating. Rather than a jumper pin, this timer has a female spade connector that must be connected to terminal number 6.

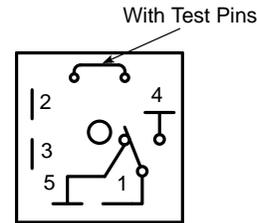
- When this jumper is in place, the LED will blink at one-second intervals. This is the run mode.
- When the jumper is open, the LED will flash every 4/10ths second. This is the test mode and the timer will cycle every 55 seconds in test mode. Remember to replace the jumper when testing is complete. If the timer is left in test mode it will automatically reset to run mode.

When installing this timer into existing equipment, make sure to verify correct wiring of the timer. Some older equipment may require a wiring change. Check the yellow wire from the ice dispense switch (rocking chute) to the number two terminal of the timer. With this timer, the yellow wire leaves the ice dispense switch from the NC terminal of the switch.



TIMER WITH TEST PINS

The timer is equipped with test pins. This allows you to test the timer by removing the jumper between the two pins.



The timer is non-adjustable and is set to agitate the ice for three seconds every three and one half-hours. Activating the dispenser will reset the timer. After 3.5 hours of non-use the timer will energize the dispenser motor.

To check for correct function of the agitation timer, use the following procedure:

The agitation timer is located at the front of the dispenser in the control box, on the left side of the ice chute.

1. Remove the jumper between the two pins.
2. The timer will cycle every 55 seconds.
3. If the timer does not cycle every 55 seconds, replace the timer.
4. Replace jumper after testing.

⚠ Caution

Never operate with jumper removed. Damage will occur.

Section 4 Maintenance

Disassembly

REMOVING THE FRONT PANEL



Warning **Electric Shock Hazard**

Unplug unit before servicing or cleaning. The agitator is operated by a timer and can agitate at anytime.

1. Shut off water to ice machine.



2. The 2 screws are retained by o-rings. Loosen the 2 screws with a Phillips screwdriver.
3. Hold the front panel of the dispenser on both sides, pull top forward to release top catch and then tilt the panel forward. The front panel will be resting on the catch hooks at the bottom of the panel.
4. SFA-191/291 ONLY – A water line is attached to the front panel. If complete removal is required, disconnect main water supply, relieve water pressure and remove water line from water valve.
5. Lift the front panel off the catch hooks and set the panel aside.

REMOVING THE DRAIN PAN

1. The drain pan is visible when the front panel of the dispenser is removed.
2. Loosen clamp and remove drain hose from drain pan.

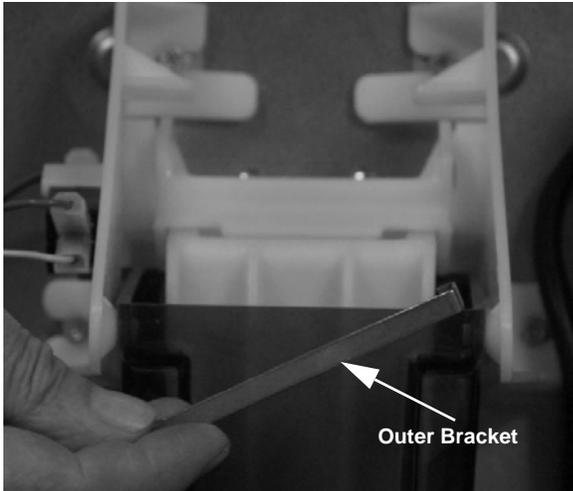


3. Slide the drain pan forward and pull out.
4. Remove scrap ice if any scrap ice has accumulated.
5. After cleaning, slide drain pan back into place.

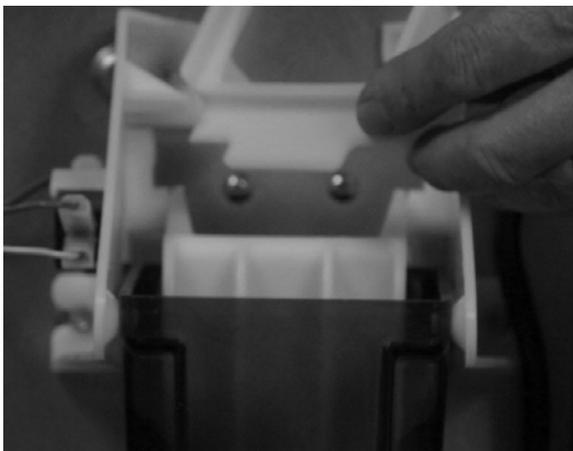
DISASSEMBLING THE ROCKING CHUTE/DOOR & PADDLE WHEEL GUARD

⚠ Warning
Electric Shock Hazard
 Unplug unit before servicing or cleaning.

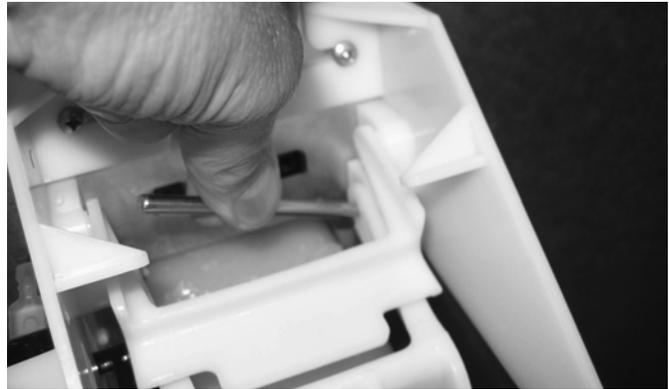
1. Remove the front panel from the dispenser. (See "Removing the Front Panel".)



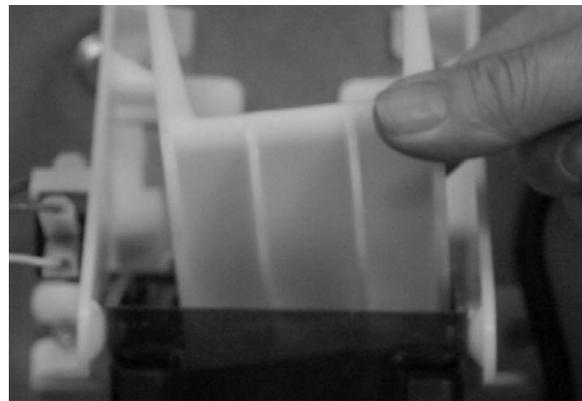
2. Remove outer bracket.



3. Remove door lock.



4. Lift up left end of door rod and pull rod out from right side of door.

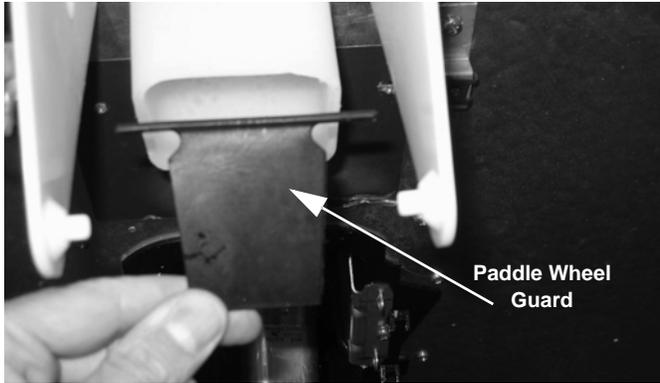


5. Remove door.

6. Remove ice chute.



7. Pull the paddle wheel guard from the holes inside the ice dispense snout.



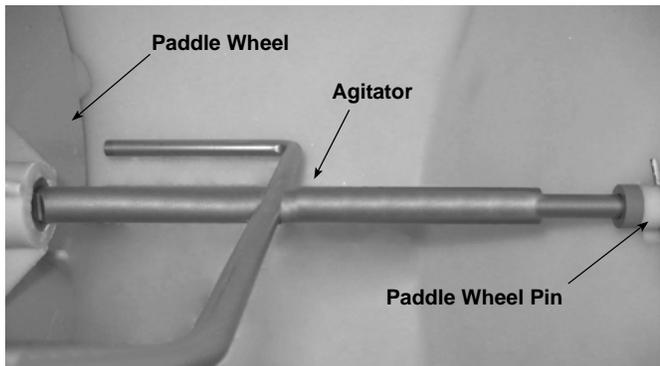
8. Remove the paddle wheel guard from the ice dispense snout.

DISASSEMBLING THE DISPENSER PARTS FOR BIN CLEANING

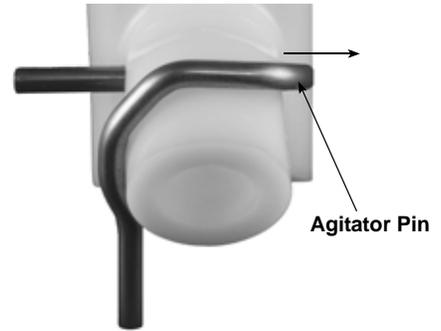
Warning

Unplug unit before servicing or cleaning.

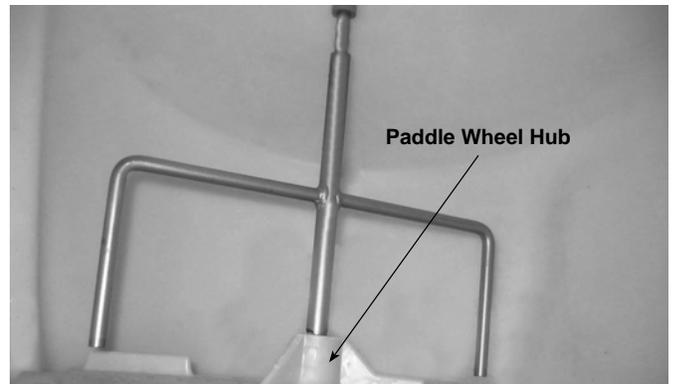
Ice dispenser bin contains moving parts that can move at any time and will cause injury if hands are in the way.



1. These parts will be removed: agitator pin, agitator and paddle wheel.



2. Pull on the hand-removable agitator pin until it is clear of the agitator bushing.



3. Push the agitator toward the back of the bin until the agitator is free of the paddle wheel hub. Remove the agitator by sliding to one side as you pull forward until the agitator shaft clears the bushing.



4. Slide the paddle wheel from the motor shaft and remove.

Cleaning and Sanitizing

MONTHLY SANITIZING PROCEDURE



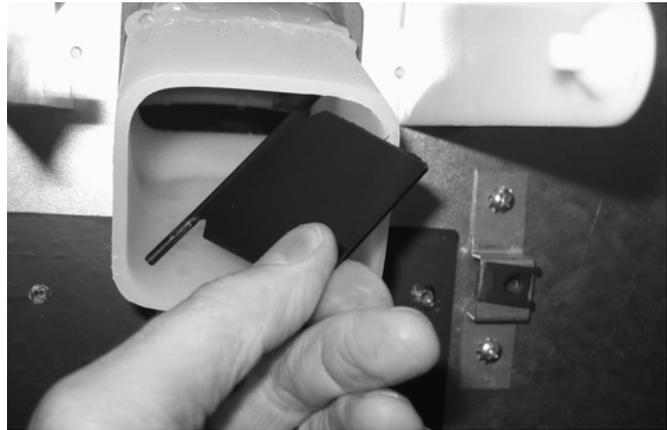
Warning **Electric Shock Hazard**

Unplug unit before servicing or cleaning.

1. Remove the front panel, paddle wheel, ice chute and door assembly.
2. Mix a solution of 3 ounces (100 ml) Manitowoc cleaner per 1 gallon (4 liters) plain tap water.
3. Carefully clean all parts removed from inside the bin with this cleaner. Clean the dispenser bin, door assembly, and ice chute.
4. Rinse all cleaned parts with fresh, running tap water.
5. Mix a solution of 3 ounce (90 ml) Manitowoc sanitizer with 4 gallons (15 liters) plain tap water.
6. Sanitize each part washed in the previous step with this sanitizer solution. Sanitize and re-assemble in this order:
 - Paddle wheel
 - Agitator
 - Paddle wheel pin
 - Ice chute assembly
 - Scrap ice tray
 - Front panel
7. Do not rinse dispenser parts after they are sanitized. Allow parts to air dry.
8. After all dispenser parts are replaced, restore power to the dispenser.
9. Turn the ice machine on.
10. Allow the ice machine to begin filling the dispenser.
11. After three batches are in the dispenser, test the dispenser operation.

Assembly

RE-INSTALLING THE PADDLE WHEEL GUARD



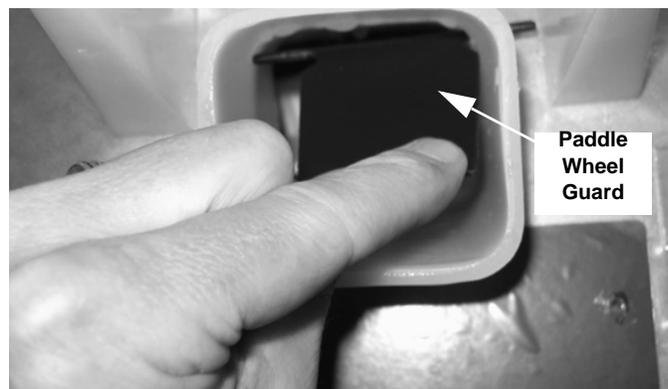
When re-assembling the rocking chute/door, the paddle wheel guard is installed inside the ice dispense snout.

When the paddle wheel guard is placed in the snout, its top hinge is snapped into mounting holes on both sides of the snout.

When the paddle wheel guard is correctly installed, the paddle wheel guard will swing outward toward the front of the chute, allowing ice to flow out of the chute.

If incorrectly installed, the paddle wheel guard will not swing outward and ice delivery is blocked.

Correct Installation



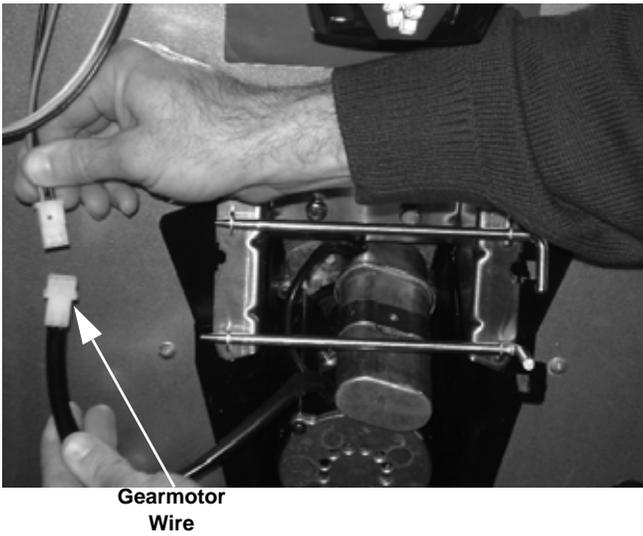
If you press your finger forward against the paddle wheel guard, the paddle wheel guard does not swing back open.

Removal of the Gearmotor

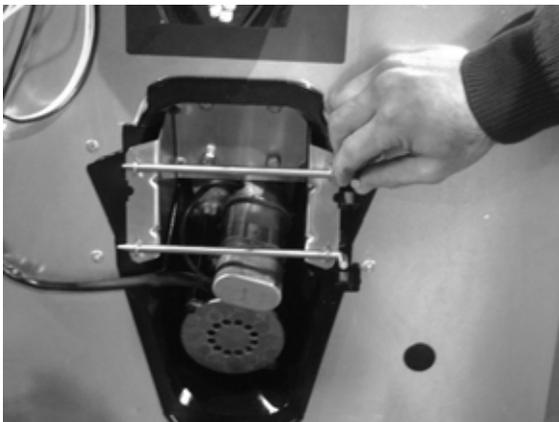
NOTE: The gearmotor does not have to be removed for cleaning/sanitizing.

⚠ Warning
Electric Shock Hazard
Unplug unit before servicing or cleaning.

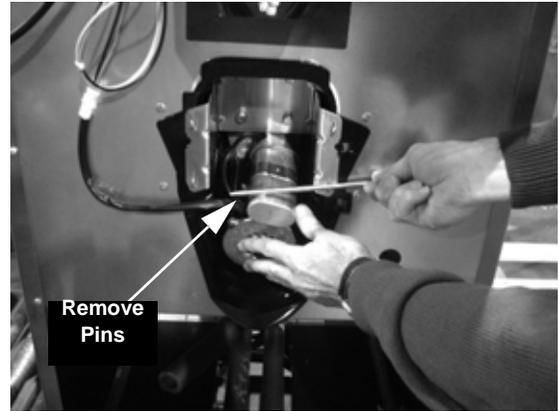
1. Remove the front panel from dispenser.
(See "Removing the Front Panel".)



2. Unplug the gearmotor wire.



3. Turn the two removal pins toward you.



4. Pull removal pins out to the right.



5. Grasp the gearmotor as the second pin is removed.
Pivot the gearmotor out of place.

Section 5

Customer Support

Checklist

If a problem arises during operation of your dispenser, follow the checklists below, before calling service. Routine adjustments and maintenance procedures are not covered by the warranty.

Warning

Unplug unit before servicing or cleaning. Ice dispenser bin contains parts that can move at any time and will cause injury if hands are in the way.

PROBLEM: ICE DOES NOT DISPENSE WHEN ROCKING CHUTE IS DEPRESSED

Problem	Possible Cause	To Correct
Dispenser does not operate.	No electrical power to dispenser.	Plugged in?
		Breaker tripped?
		Check the cord and plug of the dispenser, Replace cord set if wire is broken.
Dispenser runs but does not dispense ice.	No ice in bin.	Add ice to bin, have ice machine checked.

PROBLEM: DISPENSER CRUSHES ICE AS IT DISPENSES

Problem	Possible Cause	To Correct
Dispenser crushes ice as it dispenses.	The ice in the bin is not the proper size and type.	Replace with acceptable ice.
	Is the ice being used a full size piece of ice, i.e., are cubes full, not shallow, etc.?	Adjust ice machine cube size. Refer to ice machine Installation, Use and Care manual for procedure.

PROBLEM: ICE CONTINUES TO DISPENSE OR DISPENSES BY ITSELF

Problem	Possible Cause	To Correct
Dispenser agitates every 55 seconds.	No jumper on the timer.	Call for Service.
Does ice continue to dispense after the cup has been pulled away?	Does the gearmotor continue to run during this time?	Call for Service.
Does the ice dispense by itself without anyone around the dispenser?	Does the dispenser do this at regular intervals?	Call for Service.

Commercial Ice Machine Warranty

LIMITED WARRANTY FOR ICE STORAGE BIN & DISPENSERS LIMITED WARRANTY

Manitowoc Ice a division of Manitowoc FSG Services, LLC, (“Company”) warrants that new Ice Storage Bins or Dispensers sold by Company shall be free of defects in material or workmanship under normal and proper use and maintenance as specified by the Company and upon proper installation and start-up in accordance with the instruction manual supplied.

WHAT IS COVERED

Parts and Labor for a period of three (3) years.

Accessory Ice Transport Carts for two (2) years parts and labor.

The Ice Storage Bin / Dispenser warranty begins on the date of the original installation. This warranty shall not apply to any Ice Storage Bin or Dispenser initially installed more than five (5) years from the serial number production date.

The obligation of the Company under this warranty is limited to the repair or replacement of parts, components, or assemblies that in the sole opinion of the Company are defective. This warranty is further limited to the cost of parts, components or assemblies and standard straight time labor charges at the servicing location.

Time and hourly rate schedules, as published from time to time by the Company, apply to all service procedures. Additional expenses including without limitation, travel time, overtime premium, material cost, accessing or removal of the Ice Storage Bin / Dispenser, or shipping are the responsibility of the purchaser, along with all maintenance, adjustments, cleaning, and ice purchases. Labor covered under this warranty must be performed by an approved Company contracted Service Representative or a refrigeration service agency as qualified and authorized by the Company's local Distributor. The Company's liability under this warranty shall in no event be greater than the actual purchase price paid by purchaser for the Ice Storage Bin or Dispenser.

EXCLUSIONS FROM COVERAGE

- Repair or replacement of parts required because of misuse, improper care or storage, negligence, alteration, use of incompatible supplies or lack of specified maintenance shall be excluded.
- Normal maintenance items.
- Failures caused by adverse environmental, water conditions, or improper drainage.
- Improper or unauthorized repair.
- Any Ice Storage Bin / Dispenser that has been installed and/or maintained inconsistent with the instructions provided by the Company.
- Parts subject to damage beyond the control of Company, or to Ice Storage Bin's / Dispenser's which have been subject to accidents, damage in shipment, fire, floods, other hazards or acts of God that are beyond the control of the Company.

- This Limited Warranty shall not apply if the Ice Storage Bin / Dispenser is modified with parts and assemblies other than those manufactured by the Company, unless the Company approves these modifications for specific locations in writing prior to the commencement of such modification.

LIMITATIONS OF LIABILITY

The preceding paragraphs set forth the exclusive remedy for all claims based on failure of, or defect in, Ice Storage Bins or Dispensers sold hereunder, whether the failure or defect arises before or during the warranty period, and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability, implied by statute, common-law or otherwise, and Company and agents shall not be liable for any claims for personal injuries or consequential damages or loss, howsoever caused. Upon the expiration of the warranty period, all such liability shall terminate. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL, IMPLIED OR STATUTORY NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE SHALL APPLY, COMPANY DOES NOT WARRANT ANY PRODUCTS OR SERVICES OF OTHERS

REMEDIES

The liability of Company for breach of any warranty obligation hereunder is limited to: (i) the repair or replacement of the Ice Storage Bin or Dispenser on which the liability is based, or with respect to services, re-performance of the services; or (ii) at Company's option, the refund of the amount paid for said equipment or services. Any breach by Company with respect to any item or unit of equipment or services shall be deemed a breach with respect to that item or unit or service only.

WARRANTY CLAIM PROCEDURE

Customer shall be responsible to:

- Complete and return warranty registration card or register on line within five (5) days from the installation date.
- All warranty service must be performed by an approved Manitowoc contracted or authorized Service Representative. To schedule a service appointment contact your local Manitowoc Service Representative or visit us at www.manitowocice.com to find a Service Representative near you.

GOVERNING LAW

This Limited Warranty shall be governed by the laws of the state of Wisconsin, USA, excluding their conflicts of law principles. The United Nations Convention on Contracts for the International Sale of Goods is hereby excluded in its entirety from application to this Limited Warranty.

Complete the following and retain for your record:

Distributor/Dealer _____
 Model Number _____ Serial Number _____
 Installation Date _____

MANITOWOC ICE, INC.

2110 So. 26th St., P.O. Box 1720, Manitowoc, WI 54221-1720
 Telephone: 920-682-0161 • Fax: 920-683-7585
 Web Site - www.manitowocice.com

Residential Ice Machine Limited Warranty

WHAT DOES THIS LIMITED WARRANTY COVER?

Subject to the exclusions and limitations below, Manitowoc Foodservice ("Manitowoc") warrants to the original consumer that any new ice machine manufactured by Manitowoc (the "Product") shall be free of defects in material or workmanship for the warranty period outlined below under normal use and maintenance, and upon proper installation and start-up in accordance with the instruction manual supplied with the Product.

HOW LONG DOES THIS LIMITED WARRANTY LAST?

<u>Product Covered</u>	<u>Warranty Period</u>
Ice Machine	Twelve (12) months from the sale date

WHO IS COVERED BY THIS LIMITED WARRANTY?

This limited warranty only applies to the original consumer of the Product and is not transferable.

WHAT ARE MANITOWOC ICE'S OBLIGATIONS UNDER THIS LIMITED WARRANTY?

If a defect arises and Manitowoc receives a valid warranty claim prior to the expiration of the warranty period, Manitowoc shall, at its option: (1) repair the Product at Manitowoc's cost, including standard straight time labor charges, (2) replace the Product with one that is new or at least as functionally equivalent as the original, or (3) refund the purchase price for the Product. Replacement parts are warranted for 90 days or the balance of the original warranty period, whichever is longer. The foregoing constitutes Manitowoc's sole obligation and the consumer's exclusive remedy for any breach of this limited warranty. Manitowoc's liability under this limited warranty is limited to the purchase price of Product. Additional expenses including, without limitation, service travel time, overtime or premium labor charges, accessing or removing the Product, or shipping are the responsibility of the consumer.

HOW TO OBTAIN WARRANTY SERVICE

To obtain warranty service or information regarding your Product, please contact us at:
 MANITOWOC FOODSERVICE
 2110 So. 26th St.
 P.O. Box 1720,
 Manitowoc, WI 54221-1720
 Telephone: 920-682-0161 Fax: 920-683-7585
www.manitowocice.com

WHAT IS NOT COVERED?

This limited warranty does not cover, and you are solely responsible for the costs of: (1) periodic or routine maintenance, (2) repair or replacement of the Product or parts due to normal wear and tear, (3) defects or damage to the Product or parts resulting from misuse, abuse, neglect, or accidents, (4) defects or damage to the Product or parts resulting from improper or unauthorized alterations, modifications, or changes; and (5) defects or damage to any Product that has not been installed and/or maintained in accordance with the instruction manual or technical instructions provided by Manitowoc. To the extent that warranty exclusions are not permitted under some state laws, these exclusions may not apply to you.

EXCEPT AS STATED IN THE FOLLOWING SENTENCE, THIS LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY OF MANITOWOC WITH REGARD TO THE PRODUCT. ALL IMPLIED WARRANTIES ARE STRICTLY LIMITED TO THE DURATION OF THE LIMITED WARRANTY APPLICABLE TO THE PRODUCTS AS STATED ABOVE, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

IN NO EVENT SHALL MANITOWOC OR ANY OF ITS AFFILIATES BE LIABLE TO THE CONSUMER OR ANY OTHER PERSON FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND (INCLUDING, WITHOUT LIMITATION, LOSS PROFITS, REVENUE OR BUSINESS) ARISING FROM OR IN ANY MANNER CONNECTED WITH THE PRODUCT, ANY BREACH OF THIS LIMITED WARRANTY, OR ANY OTHER CAUSE WHATSOEVER, WHETHER BASED ON CONTRACT, TORT OR ANY OTHER THEORY OF LIABILITY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

HOW STATE LAW APPLIES

This limited warranty gives you specific legal rights, and you may also have rights that vary from state to state or from one jurisdiction to another.

REGISTRATION CARD

To secure prompt and continuing warranty service, this warranty registration card must be completed and sent to Manitowoc within thirty (30) days from the sale date. Complete the following registration card and send it to Manitowoc.