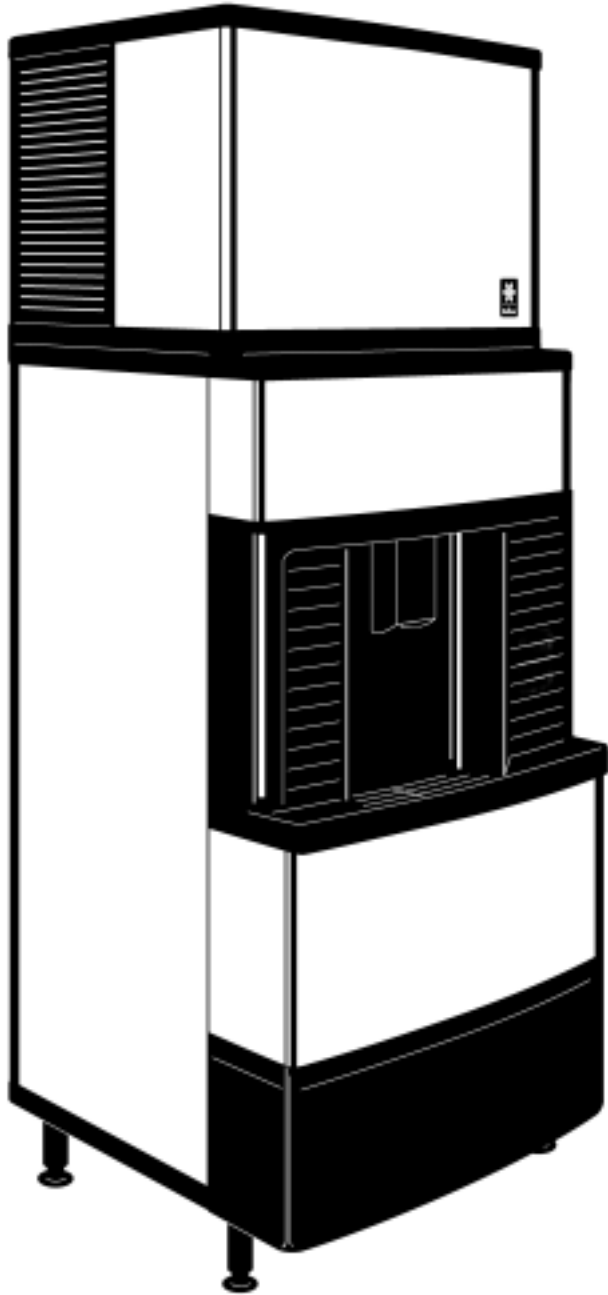




Manitowoc®



Q MODEL DISPENSER Q160/290/300

Installation, Use, and Care

Thank you for selecting a Manitowoc Dispenser, the dependability leader in ice making equipment and related products. With proper care and maintenance, your new Manitowoc Dispenser will provide you with many years of reliable and economical performance.



Part Number
80-1388-3

Safety Notices

Installation and start-up of this equipment should be done by a qualified service technician.

When using or servicing a Q Model Dispenser, be sure to pay close attention to the safety notices in this manual. Disregarding the notices may lead to serious injury and/or damage to the dispenser.

Throughout this manual, you will see the following types of safety notices:



WARNING

Text in a Warning box alerts you to a potential personal injury situation. Be sure to read the Warning statement, and then proceed carefully.



CAUTION

Text in a Caution box alerts you to a situation in which you could damage the dispenser. Be sure to read the Caution statement, and then proceed carefully.



CAUTION

Proper care and maintenance are essential for trouble-free operation of your Manitowoc Dispenser.

Read and understand this manual. It contains valuable care and maintenance information. If you encounter problems not covered by this manual, feel free to contact Manitowoc Ice, Inc. We will be happy to provide assistance.



WARNING **Personal Injury Potential**

Do not operate equipment that has been misused, abused, neglected, damaged, or altered/modified from that of original manufactured specifications.

Procedural Notices

When using or servicing a Q Model Dispenser, be sure to read the procedural notices in this manual. These notices supply helpful and important information.

Throughout this manual, you will see the following types of procedural notices:

NOTE: Text set off as a Note provides you with simple, but useful, extra information.

Important

Important boxes serve two functions.

They call the operator's attention to important information.

They also provide the service technician with information that may help perform a procedure more efficiently. Disregarding this information may slow down the work.

We reserve the right to make product improvements at any time.

Specifications and design are subject to change without notice.

MANITOWOC ICE, INC.

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Litho in USA

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General Information

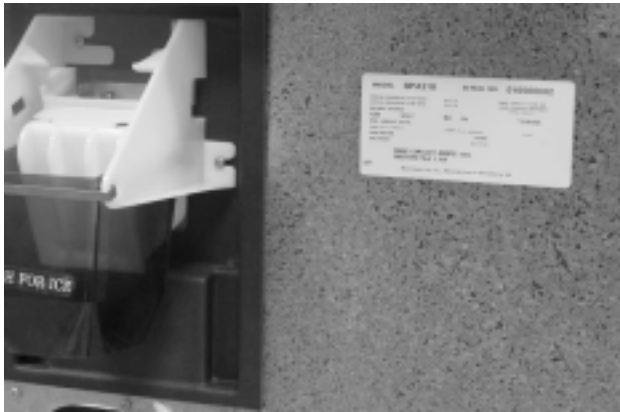
This manual is a reference guide for the owner/operator, service agent and installer of this equipment. Please read this manual before installation or operation of the machine. If you encounter a problem, first consult the Trouble shooting Guide or Adjustments sections of this manual. If you cannot correct the problem, call your Manitowoc Service Agent, Distributor or the Factory. Always have your model and serial number available when you call.

Q1000 Ice Machines are not approved for use on a Q-Model Dispenser.

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

Adapter Kit

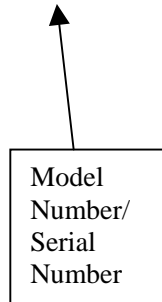
A 22'' wide machine mounted to a 30'' wide dispenser requires an adapter kit



Locations of Model Number and Serial Number

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..

Dispensers Covered in This Manual

| Series | Rocking Chute Operated | Card Operated | Coin Operated | Glass Fill Dispenser |
|--------|------------------------|---------------|---------------|----------------------|
| Q160 | QPA160 | QRA164 | QCA163 | N/A |
| Q300 | QPA310 | QRA340 | QCA330 | N/A |
| Q290 | N/A | N/A | N/A | QFA291 |

NOTE: These dispensers are designed to dispense both dice and half dice ice. These dispensers may be used in conjunction with a Manitowoc ice machine for automatic fill of dispenser. Q160 dispensers are capable of storing 120 lbs. of ice. Q290/Q300 dispensers are capable of storing 180 lbs. of ice.

WARRANTY INFORMATION

The packet containing this manual also includes warranty information. Warranty coverage begins the day your new dispenser is installed.

Important

Complete and mail the OWNER WARRANTY REGISTRATION CARD as soon as possible to validate the installation date.

If you do not return your OWNER WARRANTY REGISTRATION CARD, Manitowoc will use the date of sale to the Manitowoc Distributor as the first day of warranty coverage for your new dispenser.

WARRANTY COVERAGE

The following Warranty outline is provided for your convenience. For a detailed explanation, read the warranty bond shipped with each product.

Contact your local Manitowoc representative or Manitowoc Ice, Inc. if you need further warranty information.

PARTS

Manitowoc warrants the dispenser against defects in materials and workmanship, under normal use and service, for three (3) years from the date of original installation.

LABOR

Labor required to repair or replace defective components is covered for three (3) years from the date of original installation.

EXCLUSIONS

The following items are not included in the dispenser's warranty coverage:

1. Normal maintenance, adjustments and cleaning as outlined in this manual.

2. Repairs due to unauthorized modifications to the dispenser or the use of non-standard parts without prior written approval from Manitowoc Ice, Inc.
3. Damage caused by improper installation of the dispenser, electrical supply, water supply or drainage, or damage caused by floods, storms, or other acts of God.
4. Premium labor rates due to holidays, overtime, etc.; travel time; flat rate service call charges; mileage and miscellaneous tools and material charges not listed on the payment schedule. Additional labor charges resulting from the inaccessibility of the dispenser are also excluded.
5. Parts or assemblies subjected to misuse, abuse, neglect or accidents.
6. Damage or problems caused by installation, cleaning and/or maintenance procedures inconsistent with the technical instructions provided in this manual.

AUTHORIZED WARRANTY SERVICE

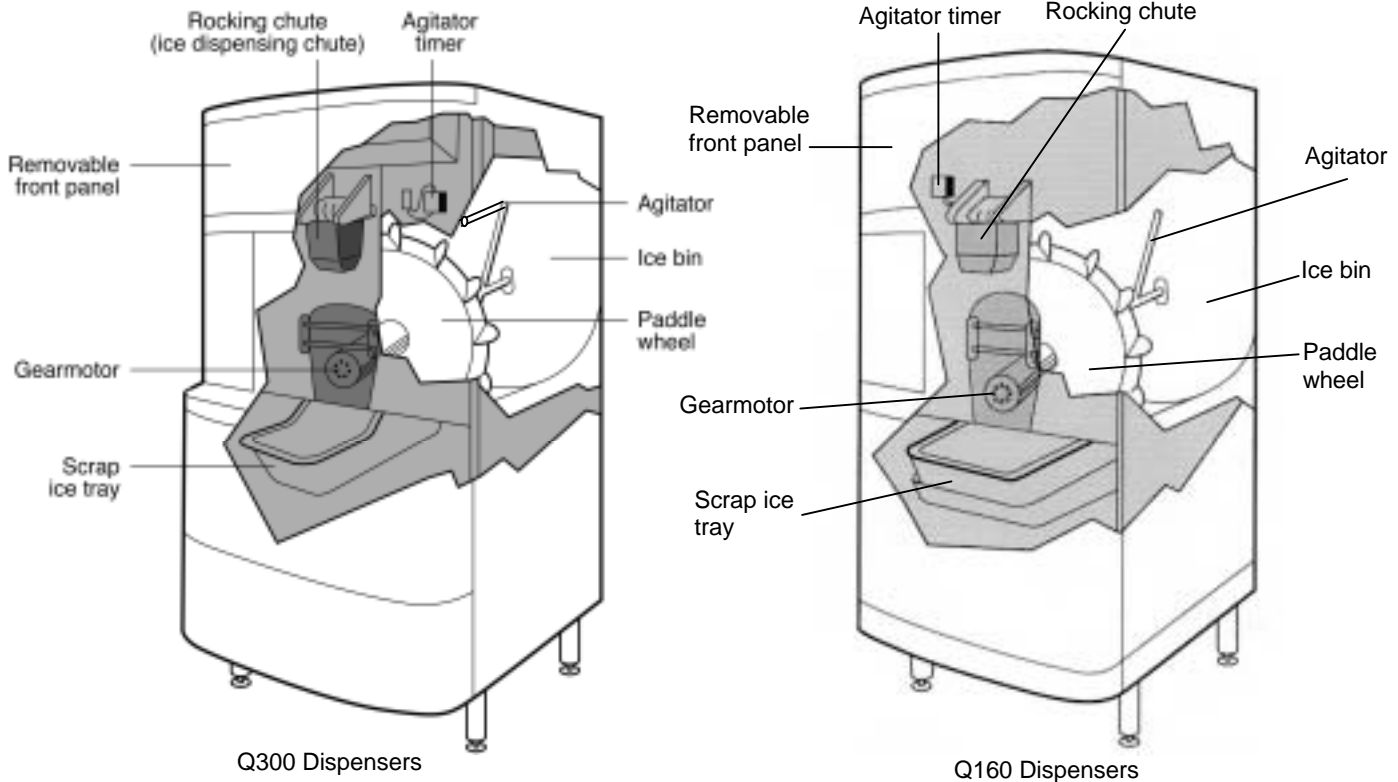
To comply with the provisions of the warranty, a refrigeration service company, qualified and authorized by a Manitowoc distributor, or a Contracted Service Representative must perform the warranty repair.

NOTE: If the dealer the dispenser was purchased from is not authorized to perform warranty service, contact the Manitowoc distributor or Manitowoc Ice, Inc. for the name of the nearest authorized service representative.

SERVICE CALLS

If you have followed the procedures listed the Troubleshooting Guide of this manual, and the dispenser still does not perform properly, call your authorized service company.

Equipment Overview



The operation of the Q 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.

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.

Model QFA-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

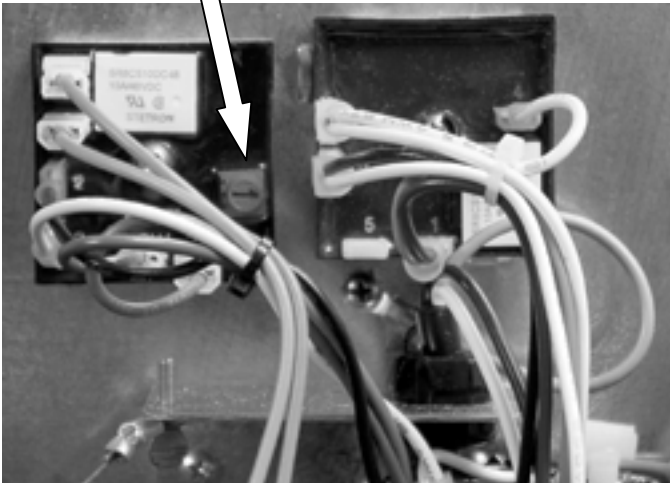
Coin Operated Activation will accept U.S. quarters only. No other coin is accepted and no change is returned to the user. To allow use of Canadian coins, please contact your local dealer.



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 (as shown above) 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.

COIN MECHANISM
TIMER

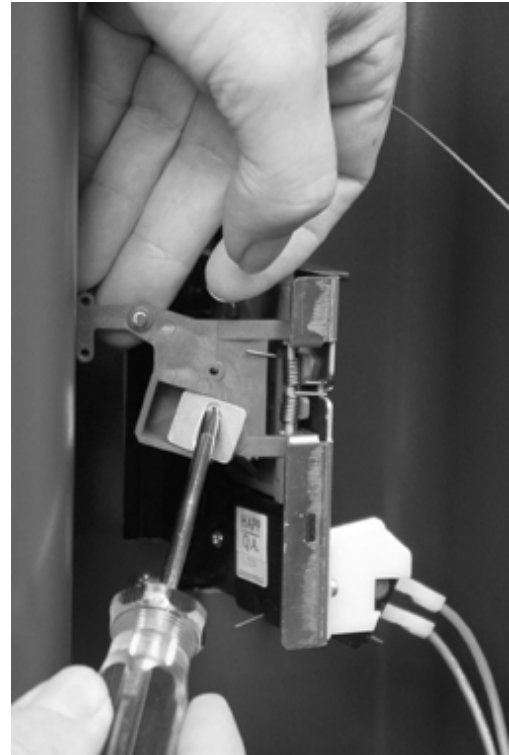


Adjusting the Coin Mechanism for Canadian Coins

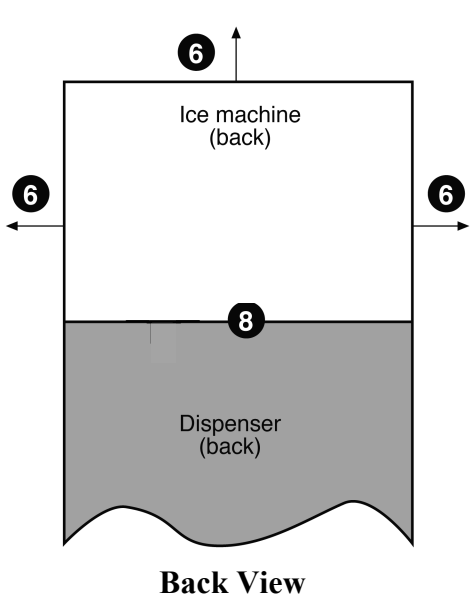
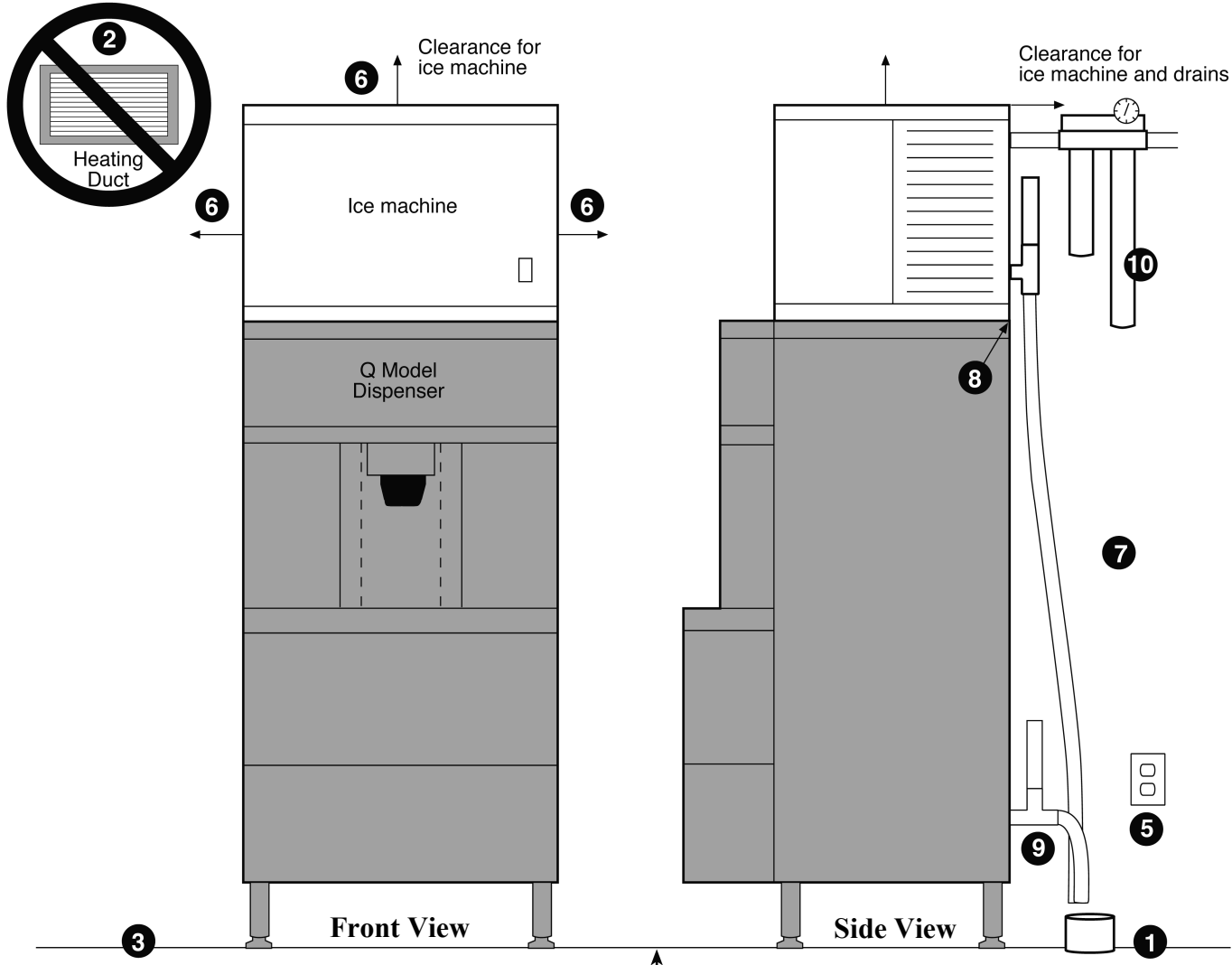
Important

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 backside 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.




Pre-Installation Checks For Q Series Dispensers



NOTE:
Dispensers must be installed on a solid, level floor or surface.

Pre-Installation Checks


1. **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 ½” I.D. at minimum.
2. **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.
3. **Location: On a solid floor** – The dispenser and ice maker should be sitting on a good, solid, level floor or surface.
4. **Location: Do not obstruct traffic** – The dispenser should not extend from the wall in a way that obstructs traffic through the area.
5. **Electrical** – Proper electrical voltage is available. Receptacle is available and within six feet.

 **WARNING**

Never use an extension cord. If an electrical outlet is not within six feet, have proper amperage outlet installed.

6. **Clearances for top and both sides of ice machine** – Use clearances specified in the ice machine’s Installation and Use & Care Guide.
7. **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.
8. **Back of ice machine to be flush with back of dispenser** – This allows easy removal of dispenser front panel.
9. **Separate drains** – a separate drain line is required for the ice machine, in addition to a drain line for the Q Series Dispenser. Vent all drain lines.
10. **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**

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

Installation Procedures

 **WARNING**

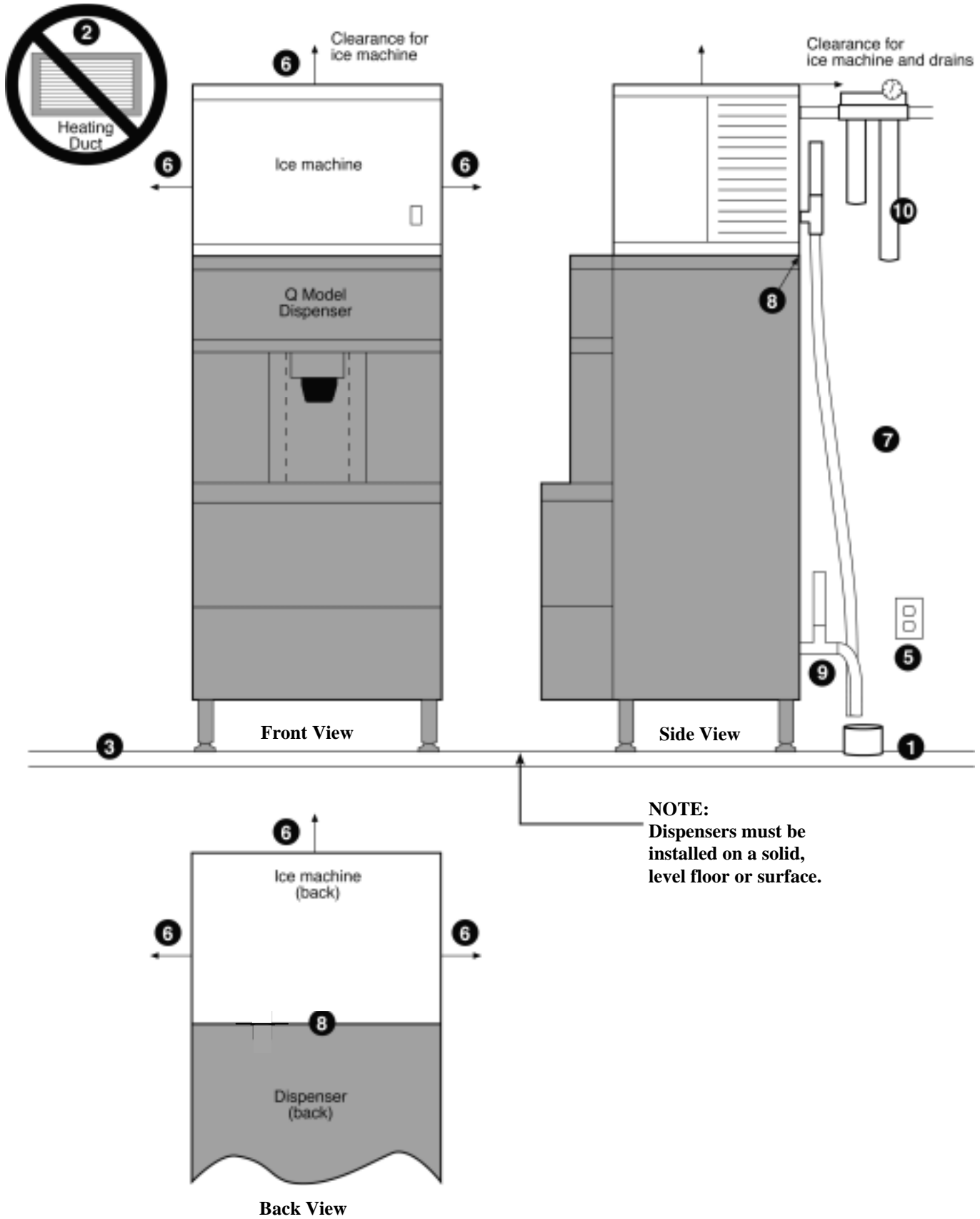
Do not attempt to move a dispenser without first removing the ice machine. The combination can be unstable and could tip, causing serious injury.

1. Review the installation Check List 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 it 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. Vent the drain at the back of the dispenser to reduce buildup of algae and improve drainage.
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

Post-Installation Checks

1. Dispenser and ice machine are level?
2. Drains are vented?
3. Dispenser does not sit in direct sunlight?
4. Dispenser does not sit in direct airflow from a heating duct?
5. Bin and ice machine drains are separate?
6. Ice dispenses properly?
7. Dispenser is accessible for servicing?
8. Ice Machine ice thickness control is properly set?
9. The warranty card was returned?
10. Owner was instructed on the operation of the dispenser?
11. Owner knows how to clean and sanitize the dispenser?
12. Owner knows how often to clean and sanitize the dispenser?
13. Owner has your telephone number to call for follow-up service on the dispenser?
14. You have placed one of your service stickers on the dispenser for follow-up service?

Installation Check List For Q Series Dispensers



**With Top-Mounted Ice Machines
Installation Check List
For Q Series Dispensers**

1. **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 ½” I.D. at minimum.
2. **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.
3. **Location: On a solid floor** – The dispenser and ice maker should be sitting on a good, solid, level floor or surface.
4. **Location: Do not obstruct traffic** – The dispenser should not extend from the wall in a way that obstructs traffic through the area.
5. **Electrical** – Proper electrical voltage is available. Receptacle is available and within six feet.

 **WARNING**

Never use an extension cord. If an electrical outlet is not within six feet, have proper amperage outlet installed.

6. **Clearances for top and both sides of ice machine** – Use clearances specified in the ice machine’s Installation and Use & Care Guide.
7. **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.
8. **Back of ice machine to be flush with back of dispenser** – This allows easy removal of dispenser front panel.
9. **Separate drains** – a separate drain line is required for the ice machine, in addition to a drain line for the Q Series Dispenser. Vent all drain lines.
10. **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**

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

With Top-Mounted Ice Machines

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 installation Check List on pages 3-1 and 3-2. 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 it 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. Vent the drain at the back of the dispenser to reduce buildup of algae and improve drainage.
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.

Installation Procedures (continued)

18. Clean and sanitize all equipment. Follow cleaning and sanitizing instructions in section 4.
19. QPA310/330/34 ONLY - If you have a top-mounted ice machine, 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

Post-Installation Check List

1. Dispenser and ice machine are level.
2. Drains are vented.
3. Dispenser does not sit in direct sunlight.
4. Dispenser does not sit in direct airflow from a heating duct.
5. Bin and ice machine drains are separate.
6. Ice dispenses properly.
7. Installation is clean and neat.
8. Dispenser is accessible for servicing.
9. The warranty card was returned.
10. Owner was instructed on the operation of the dispenser.
11. Owner knows how to clean and sanitize the dispenser.
12. Owner knows how often to clean and sanitize the dispenser.
13. Owner has your telephone number to call for follow-up service on the dispenser.
14. You have placed one of your service stickers on the dispenser for follow-up service.

Disassembling the Dispenser Parts For Cleaning

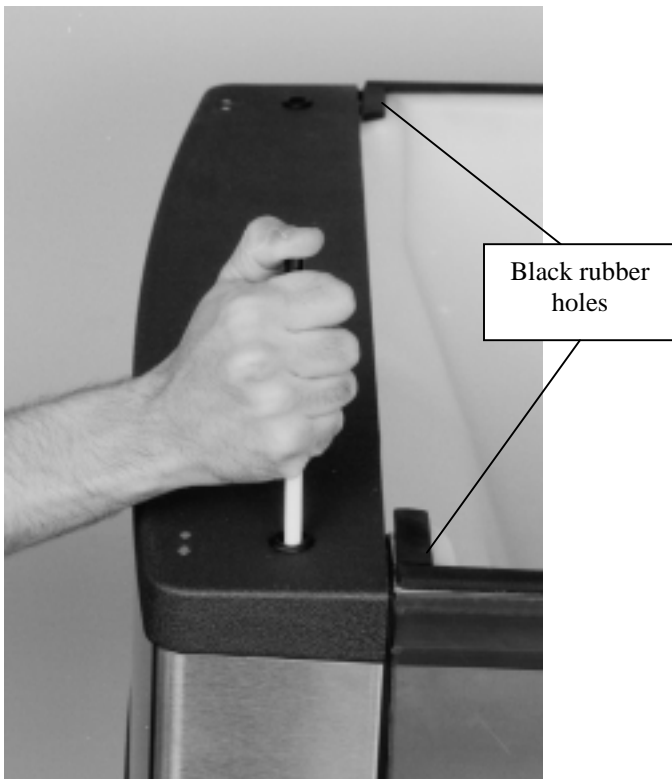


WARNING

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.

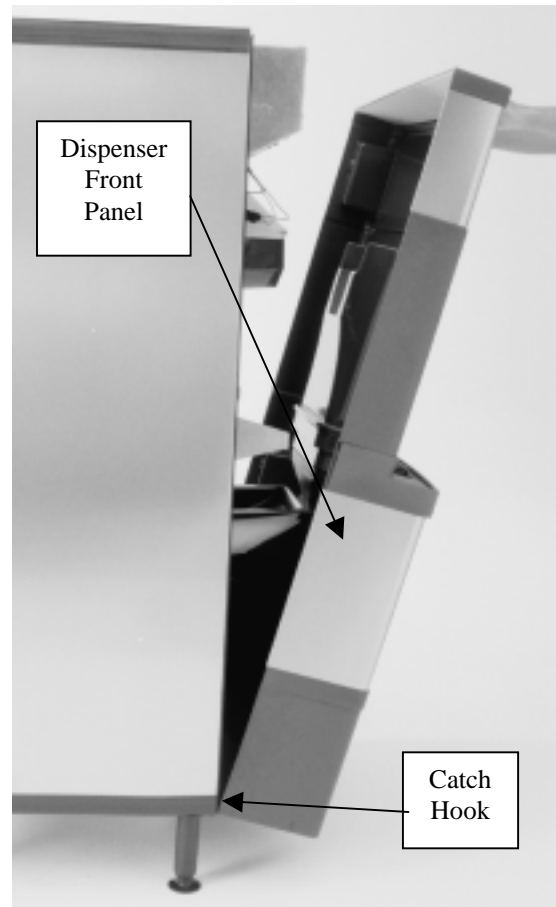


- 2** Locate a cylindrical object, such as a ballpoint pen with a cap on the pen.

Insert the pen into the left and right black rubber holes in the top of the front panel of the dispenser.

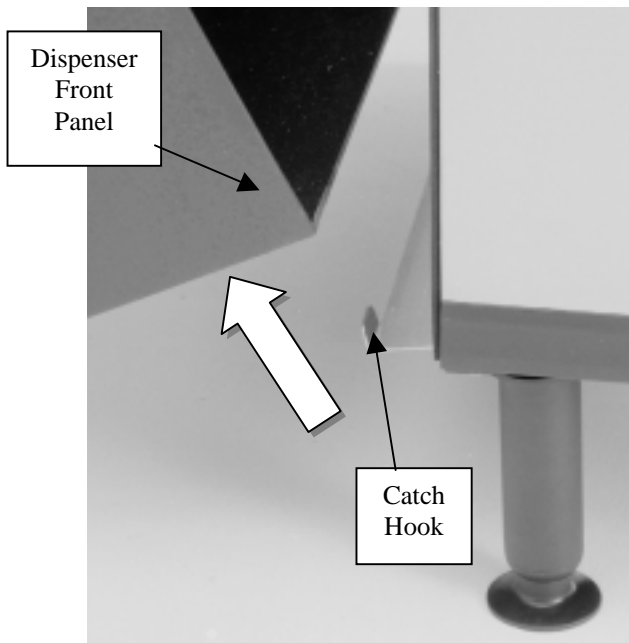
This action releases the two clips which hold the dispenser front panel in place.

While applying pressure on the pen, pull the front panel forward slightly, so the clip in the panel does not snap back into place.



- 3** Hold the front panel of the dispenser on both sides and tilt the panel forward. The front panel will be resting on the catch hooks at the bottom of the panel.
- 4** QFA-291 ONLY - Disconnect water line at the front panel “quick disconnect” fitting.

**Disassembling the Dispenser Parts
For Cleaning (continued)**



- 7** Lift the front panel off the catch hooks and set the panel aside.

Removing the Drain Pan

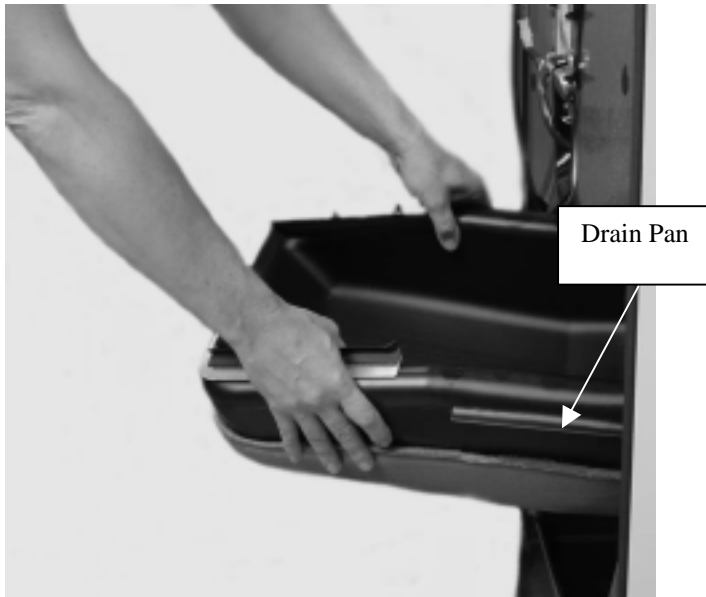


- 1** The drain pan is visible when the front panel of the dispenser is removed.



- 2** Slide the drain pan forward.
- 3** Remove scrap ice if any scrap ice has accumulated.

Removing the Drain Pan (continued)



- 4** Remove the inner drain pan. Clean the inner drain pan with sanitizing solution. (See page 4-9.)
- 5** After cleaning, place inner drain pan back into outer drain pan.
- 6** Slide drain pan back into place.

Disassembling the Rocking Chute/Door

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

- 1** Remove the front panel as described on pages 4-1 and 4-2.

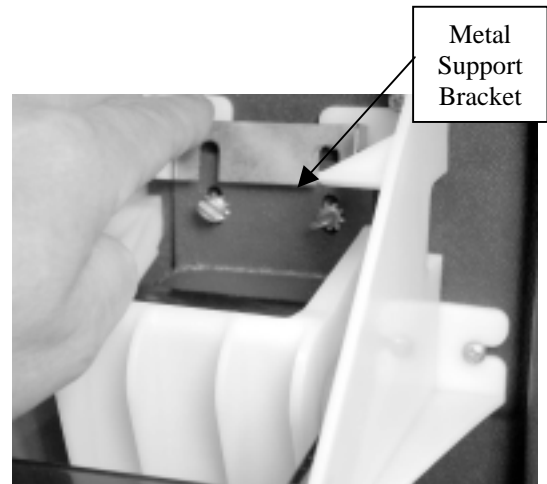


- 2** Remove outer bracket.

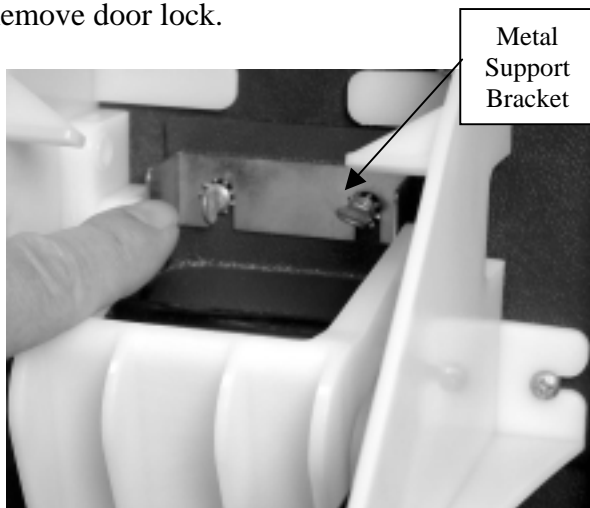
Disassembling the Rocking Chute/Door (continued)



3 Remove door lock.



5 Remove metal support bracket.



4 Loosen the two thumbscrews of the metal support bracket.

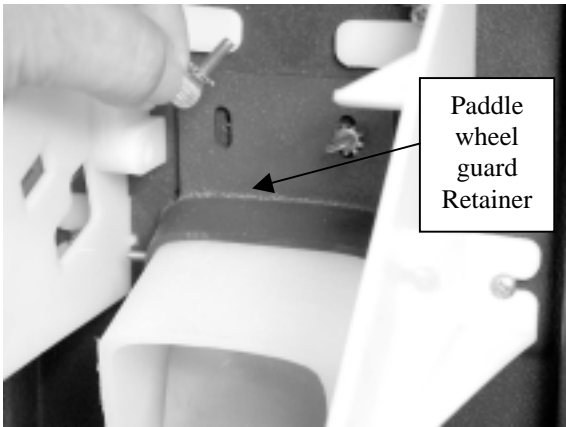


6 Remove door.

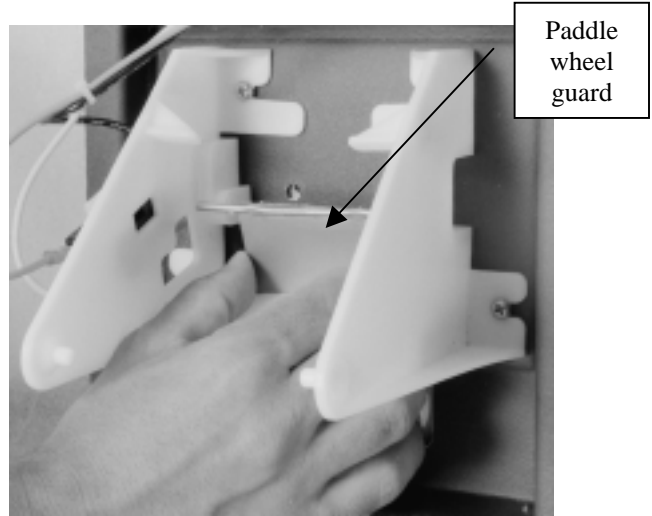


7 Remove ice chute.

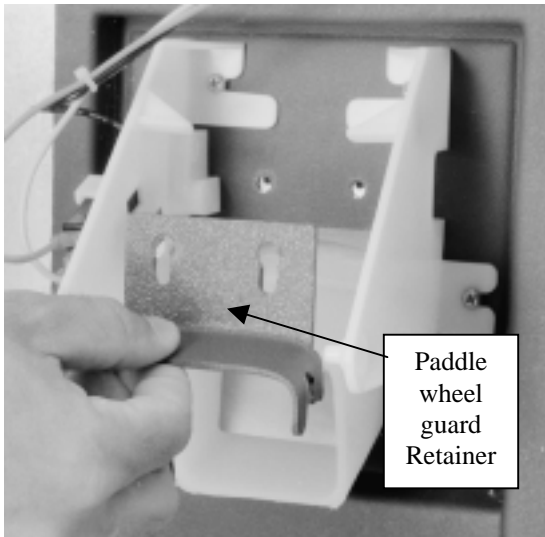
Disassembling the Rocking Chute/Door (continued)



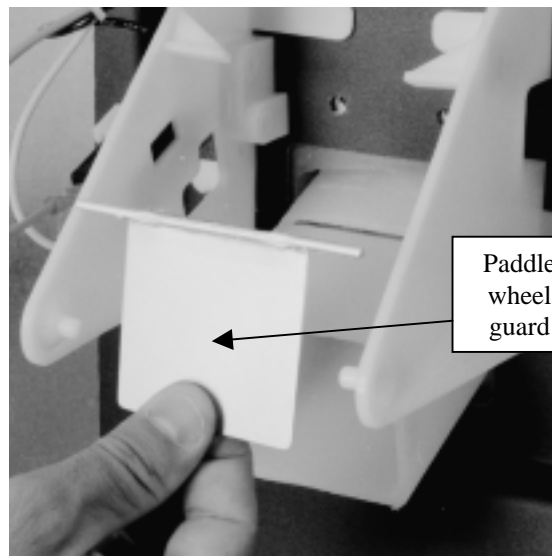
8 Remove the two thumb screws from the plastic paddle wheel guard retainer.



10 Pull the stainless steel paddle wheel guard from the slot that is cut into the chute...

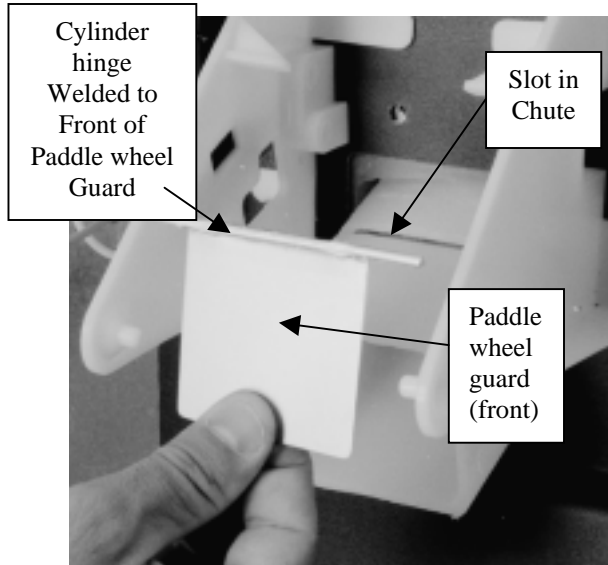


9 Remove the paddle wheel guard retainer



11 ...and remove the paddle wheel guard retainer.

Re-Installing the Paddle Wheel Guard



1 When re-assembling the rocking chute/door, the paddle wheel guard is placed in the slot in the ice chute.

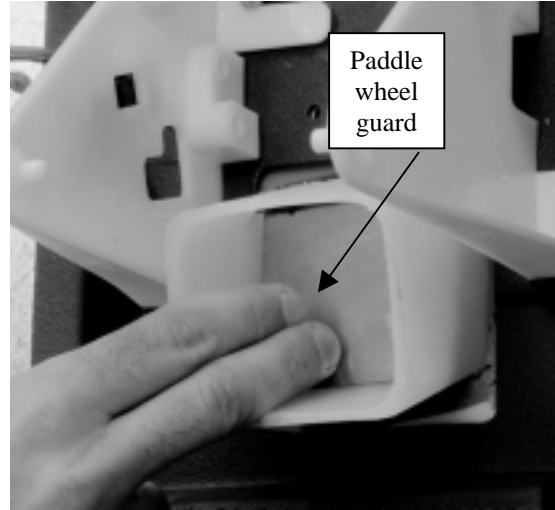
Notice that a cylinder hinge is welded to the top front side of the paddle wheel guard, as shown in the picture above.

When the paddle wheel guard is placed in the slot in the ice chute, the cylinder hinge on the front of the paddle wheel guard faces forward, as shown in the picture above.

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.

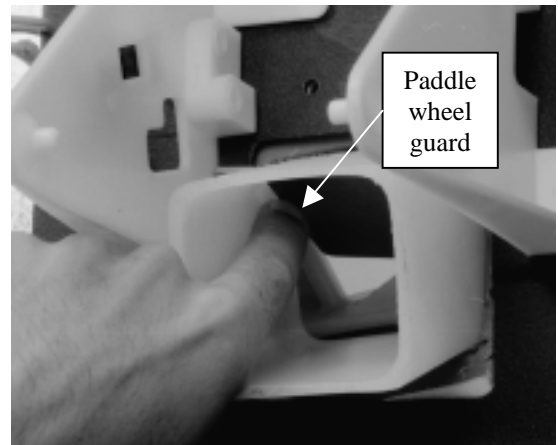
If incorrectly installed, the paddle wheel guard will not swing outward and ice delivery is blocked.

Correct Installation



2 **Correct Installation:**
If you press your finger forward against the paddle wheel guard, the paddle wheel guard does not swing back open.

Incorrect Installation



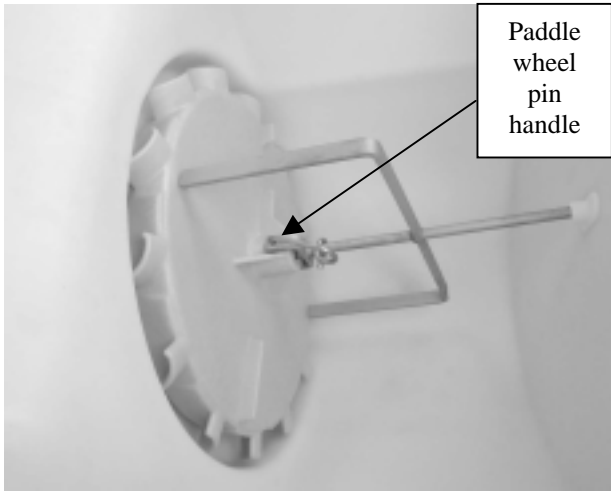
3 **Incorrect Installation:**
If you press your finger forward against the paddle wheel guard, the paddle wheel guard does swing back open.

Disassembling the Dispenser Parts For Bin Cleaning

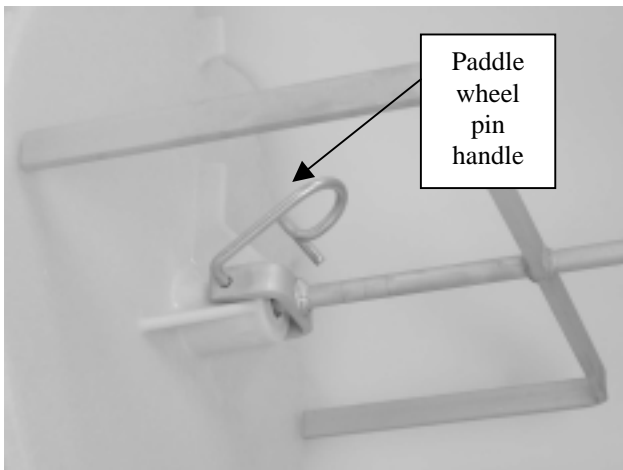
⚠ WARNING

Unplug unit before servicing or cleaning.

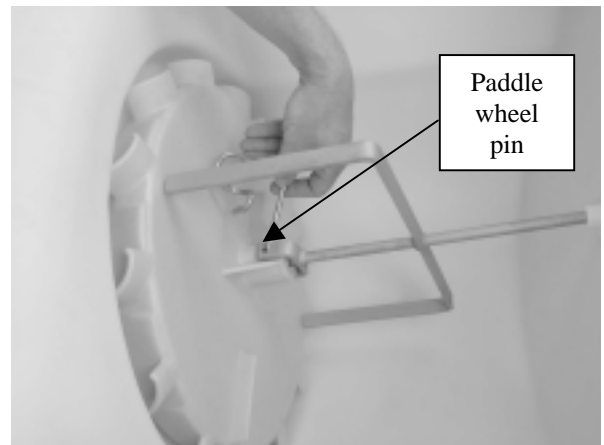
Ice dispenser bin contains moving parts that can move at any time and will cause injury if hands are in the way.



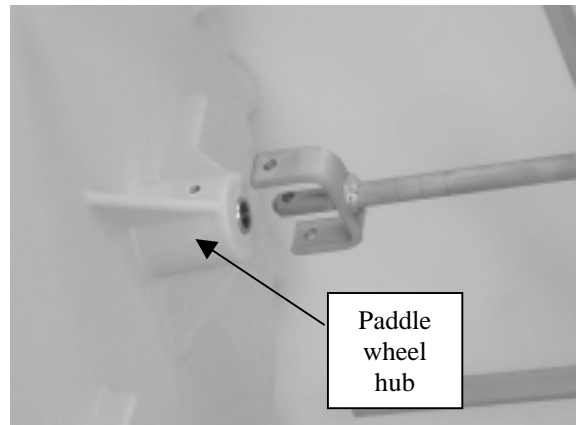
1 Inside the dispenser, rotate the agitator arm so the paddle wheel pin handle is pointing up, toward the ceiling.



2 Un-clip the hand-removable paddle wheel pin from the agitator...

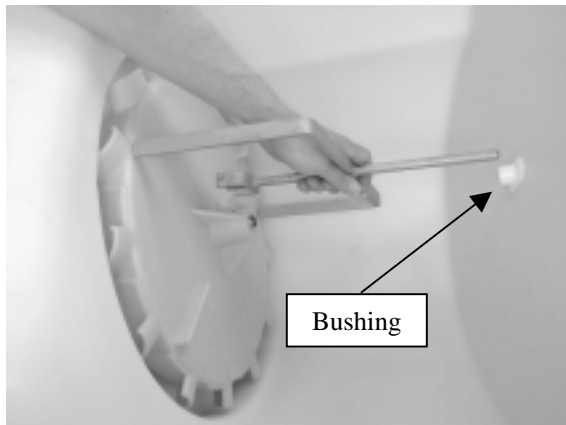


3 ...Then remove the paddle wheel pin by firmly rotating the pin and pulling upward.



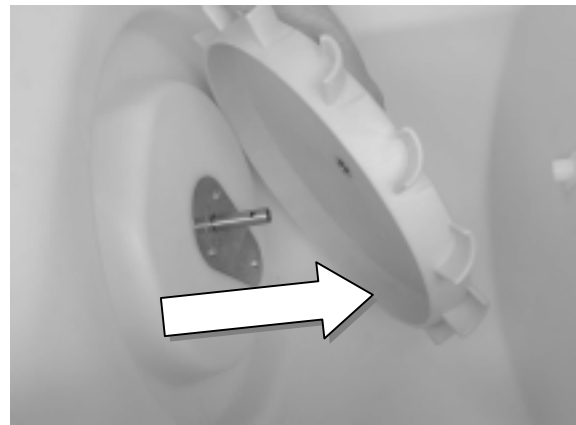
4 Push the agitator bar toward the back of the bin until agitator is free of the paddle wheel hub.

**Disassembling the Dispenser Parts
For Bin Cleaning (continued)**



5 Move the agitator to one side and slide the agitator forward until the rear of the agitator shaft is clear of the bushing.

6 Remove the agitator from the bin area.



7 Slide the paddle wheel from its shaft.

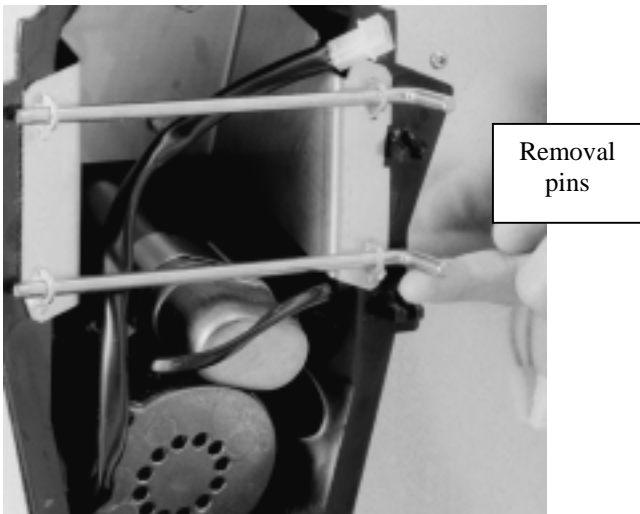
Removal of the Gearmotor

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

- 1 Remove the front panel from dispenser. (See pages 4-1 and 4-2.)
- 2 Remove paddle wheel pin, agitator, and paddle wheel. (See pages 4-5 and 4-6.)

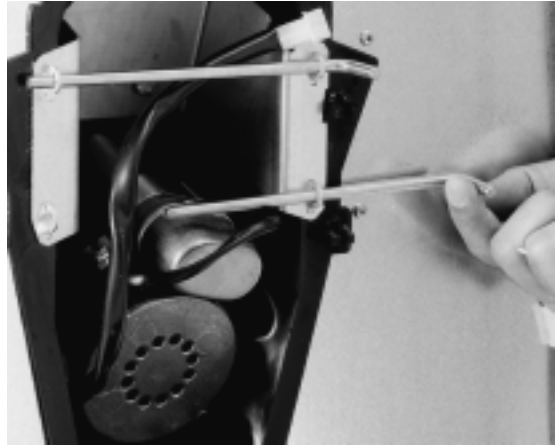


- 3 Unplug the gearmotor wire.



- 4 Turn the two removal pins toward you as shown in photo.

- 5 Pull removal pins out to the right.



- 6 As soon as the second pin is removed, be sure to hold onto the gearmotor as it slides forward. Then place the gearmotor aside.



Monthly Sanitizing Procedure

**WARNING**

Unplug unit before servicing or cleaning.

Electric Shock Hazard.

1. Remove the front panel, paddle wheel, ice chute and door assembly as shown on pages 4-1 through 4-6.
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 1-ounce (30-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.

Gearmotor Shaft Seal Replacement

**WARNING**

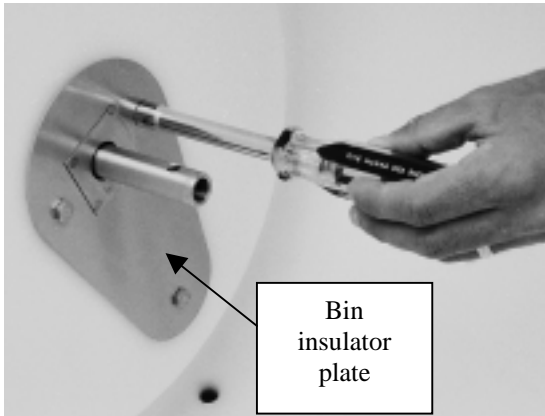
Unplug unit before servicing or cleaning.

Electric Shock Hazard.

- 1 If the dispenser is top mounted with an ice machine, remove the ice machine front panel. Most will allow access to the bin.

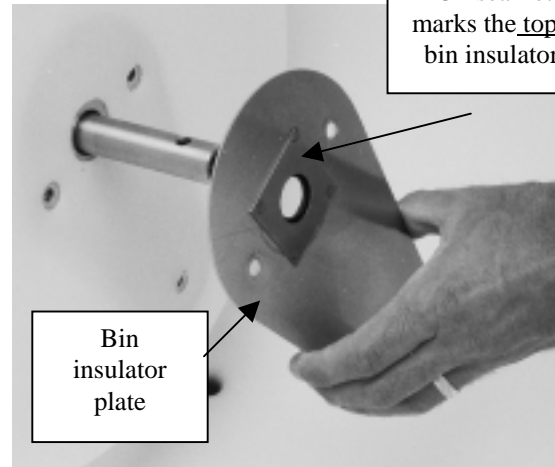
NOTE: The following photos show a bin that is not top-mounted with an ice machine.

- 2 Remove the paddle wheel pin, agitator, and paddle wheel. (See pages 4-5 and 4-6.)



- 3 The motor shaft seal can be replaced with the gearmotor in or out.

With a 7/16" nut driver, remove the three bolts on the bin insulator plate.



- 4 Remove the bin insulator plate.

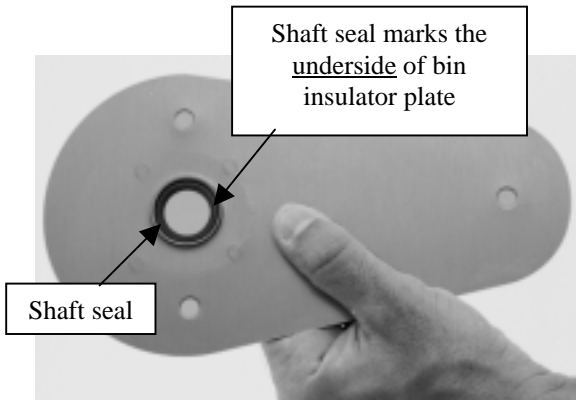
**CAUTION**

It is important to know which side of the bin insulator plate you are accessing, the topside or the underside.

The topside of the bin insulator plate can be noted by an approximately two-inch square of oil seal retainer welded to the top of the bin insulator plate. (As shown in Step 4 above.)

The underside of the bin insulator plate is where the shaft seal is located. (As shown in Step 5 on page 5-2.)

Gearmotor Shaft Seal Replacement (continued)



5 Locate the shaft seal on the underside of the bin insulator plate.

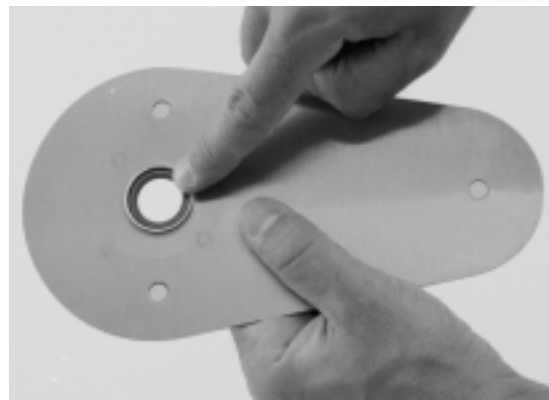


6 Using a screwdriver, pry out the shaft seal, then throw the shaft seal away.

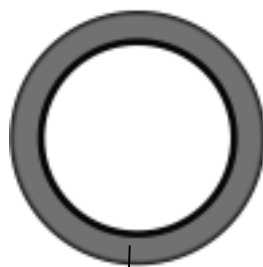
! CAUTION

Know which side of the shaft seal you are accessing, the convex side or the concave (ridge) side.

Snap in the new seal with the concave (ridge) side down. Otherwise the seal will not work and the dispenser will leak.



7 With the convex side of the shaft seal facing up (and the concave, ridge side facing down), snap the new shaft seal onto the bin insulator plate.



Convex side
(front of shaft seal)



Concave side
(ridge side...back of shaft seal)

! CAUTION

Preventive maintenance note:
Replace the motor shaft seal once a year.

Gearmotor Shaft Seal Replacement (continued)



- 8** Press the bin insulator plate back into place.
- 9** Replace the three bolts. Using a 7/16” nut driver, tighten a quarter turn past tight.
- 10** Replace the paddle wheel, agitator and paddle wheel pin in the dispenser.
- 11** Refill the dispenser or restart the ice machine.
- 12** Restore power to the dispenser and ice machine.

Checklist

 **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.

 **WARNING**

Unplug unit before servicing or cleaning.

Electric Shock Hazard.

Problem: Ice Does Not Dispense When Rocking Chute is Depressed.

| Problem | Possible Cause | To Correct |
|---|---|---|
| <p>There is no power to the dispenser.</p> | <p>Is the dispenser plugged in?</p> <p>Remove the paddle wheel pin. Is this pin broken, damaged, or missing?</p> <p>Is there any ice in the bin?</p> <p>Is the paddle wheel guard installed properly?</p> | <p>Plug the dispenser in.</p> <p>If the paddle wheel pin is broken or missing, replace the pin.</p> <p>If the ice is not sufficient, add additional to bin.</p> <p>Refer to Section 4 “Maintenance”</p> |