

# SERVICE BULLETIN

## **SUBJECT: Water Softeners Used with Scotsman Ice Makers**

In many areas, softening the water supply produces a water that is superior for washing clothes, bathing and other day to day activities. "Hard Water" really means water that minimizes soap suds, requiring more soap to be used.

However, when "soft" water is used to produce ice in a commercial ice machine, the soft water is usually NOT an improvement over "hard" water.

This is due to the similarity between "hard" and "soft" water.

Hard water is water that contains excessive dissolved minerals, usually calcium and magnesium. Soft water is hard water that has been treated to remove the calcium and/or magnesium and replace it with sodium. This means that if there were high concentrations of calcium or magnesium in the water, after it has been softened there will be a high concentration of sodium.

*Any mineral dissolved in water will lower the freezing point of that water.* An example is adding salt to snow on the roads in winter. The salt lowers the freezing point so the snow melts at temperatures below 32°F.

Another way of saying that is: *water that is more pure freezes first.* An example is the refrigerator freezer ice cube tray. When tap water is poured in, and the tray placed in the refrigerator freezer, ice forms from the outside in (the outside giving up heat to the surrounding cold air). After all the water has frozen, the ice in the center will be more cloudy than the ice on the edges, because the pure water froze at a higher temperature and sooner.

When ice is forming on the evaporator of a commercial ice cube machine the temperature of the ice on the water side remains near 32°F. because of the 32°F. water flowing over it. The evaporator temperature may fall as low as 0°F., and the ice nearest the evaporator will be colder than 32°F., but the outside of the ice - where additional freezing is taking place - is very near 32°F. At that temperature, only the purest water will freeze. Any impurities will cause the water's freezing point to be below 32°F. and that water will not freeze.

That is one of the main reasons why ice produced from a commercial ice cube machine has fewer minerals and is clearer than home refrigerator ice. In some areas, the supply water has such a high concentration of minerals that even commercial cube ice will be produced with a temperature below 32°F. Ice like that appears snowy and tends to fuse quickly.

The water that is left in the sump at the end of the freeze cycle contains a concentrated solution of minerals, irregardless of whether it began as hard or soft water. How the sump water is rinsed from the ice machine varies: there may be an overflow, a siphon or a pump out.

Softened water is not a complete answer for all water conditions. If there are also suspended solids in the water, having soft water will be an incomplete answer, because water softeners do not take out suspended solids. Furthermore, if a water softener were to fail and inject brine (salt water) into the water supply of the ice machine, the results would be catastrophic to the metal components of the ice machine.

In view of the above, Scotsman does not recommend water softeners as a singular type of water treatment for ice machines.

# SERVICE BULLETIN

**SUBJECT: CMS1202B and CMS1402B Series**

A "B" series of these two ice machines is now in production. The major change is to the front panel. The B series will have **two** front panels with captured fasteners and plastic bumpers on the bottom edge of the panels. The new front panels are much easier to use: the captured fasteners will stay with the panels; the plastic bumpers help align the panels; and having two panels eliminates the need to expose the complete front of the ice machine for cleaning or service.

The new series machines require new stacking and panel kits:

**CMS/MCM KITS**

|          | CMS1002    | MCM860 | MCM1062 | CMS1202A or<br>CMS1402A | CMS1202B or<br>CMS1402B | MCM1462   |
|----------|------------|--------|---------|-------------------------|-------------------------|-----------|
| STACKING | KSCMS      | KSMCM  | KSMCM   | KSCMS                   | KSCMS48*                | KSMCM48** |
| TRIM     | -          | -      | -       | KTCMS48                 | -                       | -         |
| PANEL    | SPKCMS1002 | -      | -       | SPKCMS1402              | SPKCMS48                | -         |

\* Includes gaskets & trim strip.

\*\* Includes gaskets, trim strip and legs. Trim strip for "B" series stacking kit holds upper edge of front panels in place.

**KITS FOR STACKING ON A PRIOR MODEL** (not new, information only)

|                     |                     |                     |
|---------------------|---------------------|---------------------|
| CMS1002 ONTO CM1000 | CMS1202 ONTO CM1400 | CMS1402 ONTO CM1400 |
| KSCMSX2 or KSCMSX2B | KSCMSX1 or KSCMSX1B | KSCMSX1 or KSCMSX1B |

Stacking kits with a "B" suffix have a rubber transducer housing. B series units will stack onto prior models the same as A series units.

**New part numbers:**

Left front panels: A35400-002 - stainless steel and A35400-001 - painted.

Left front panel screws: 03-1678-02

Right front panels: A35401-022 - stainless steel and A35401-021 - painted. Includes liner & insulation.

Right front panel screws: 03-1678-04

Plastic support bumpers: 02-3252-01

Capture rings for fasteners: 03-1678-03

Speed clip for front panel fasteners: 03-1678-01



PS-9-92

June, 1992

# SERVICE BULLETIN

**SUBJECT: Back Flow Prevention**

Scotsman ice machines are N.S.F. listed. One of the requirements of a N.S.F. listed ice machine is back flow prevention of the potable water system. Internal to all Scotsman Ice Machines is an air-gap between the inlet water valve and the water level in the reservoir; this is the back flow prevention design.

If back flow prevention is required on the water cooled condenser circuit, it will have to be added.



**Bulletin Number: PS-2-95**

**Bulletin Date: January 1995**

# SERVICE BULLETIN

**Subject: DMS Machine Stand Change**

The NDE550, NDE650, TDE550 and TDE650 have threaded holes in their bases at the corners. These threads are used to fasten the dispenser to the DMS21B machine stand.

Bolts and washers are now being packed with the machine stands for this purpose.

Note: The bolt size is  $\frac{5}{16}$  - 18, 1".

# SERVICE BULLETIN

## Subject: CD200 and CME256, CME506, CME656 (CM<sup>3</sup>)

Two new kits are now available for use on the above package:

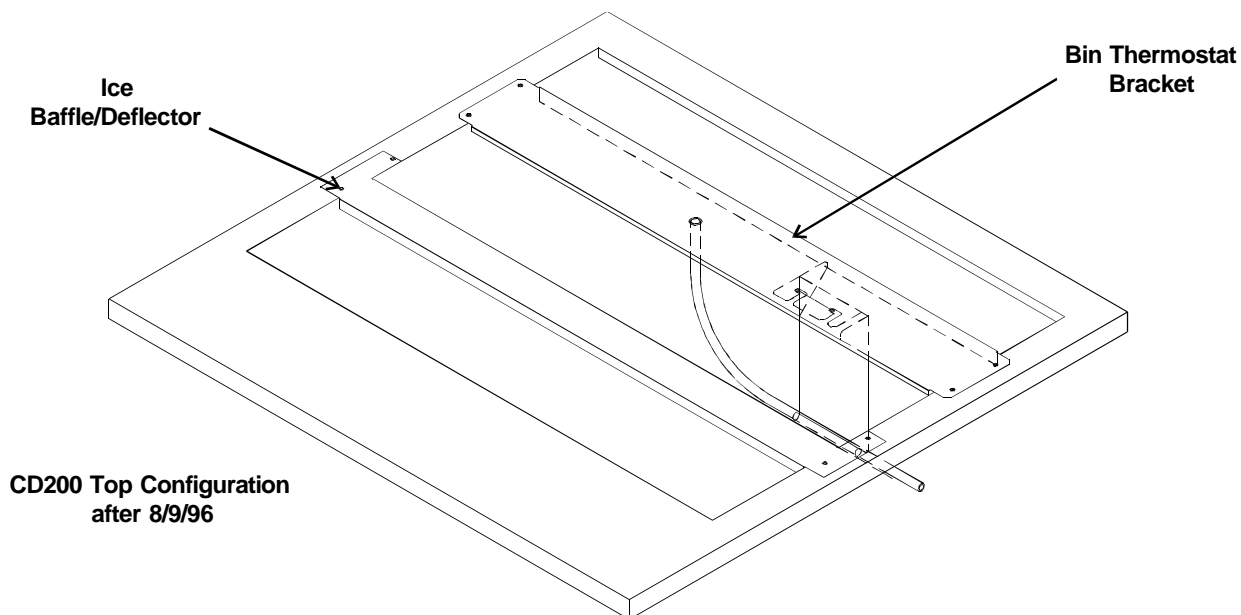
1. Baffle & Timer kit, part number **A37077-001**. This kit consists of a stainless steel baffle that mounts to the top of the CD200, just below the ice drop area of the CM<sup>3</sup> machine. This baffle directs the harvesting ice towards the back of the hopper. The kit also contains a **2 hour** off-cycle agitation timer. Other kit components are a new drive shaft, coupling, and wiring diagram. The part number of the timer is 12-2371-01.

A new wiring diagram is on the back of this bulletin.

2. Bin Thermostat kit, part number **A37086-001**. This kit contains the necessary components to add a bin thermostat to a CD200 and CM<sup>3</sup> combination. This lowers the ice level about 6" from the base of the ice machine. The part number of the reverse-acting thermostat in the kit is 11-0427-23.

These two kits can be retrofitted into any CD200 shipped prior to 8/9/96 that has a CM<sup>3</sup> on top. Both kits must be used together to gain the maximum benefit.

CD200s built or shipped after 8/9/96 have the baffle, timer and bin thermostat bracket already installed. The bin thermostat itself and its related hardware are packed with the CD200.



Other: A notch has been added to the ice chute hood safety switch mounting bracket to add clearance for the rubber bumper. If the safety switch does not close when the ice chute hood is up, the off-cycle agitation will not be working.



**Bulletin Number: PS-16-96**

**Bulletin Date: October 1996**

## **SERVICE BULLETIN**

### **Subject: Change to SLD150**

The design of the dispensing mechanism of the SLD150S-1 dispenser was changed in mid-1996. The changes included the addition of an off cycle agitation timer and a plexiglass door over the ice delivery area.

To **add** these parts to **prior** models, the following kits are available:

- Off cycle timer kit, PN C80570901. If the timer is installed, the door kit is required to contain the ice during agitation.
- Door kit, PN C80571702

### **New Model - October 1996**

**SLD150S-1B** is a new model that replaces the SLD150S-1. The major changes include:

- New front panel, with plexiglass door
- New dispense rotor
- New dispense mechanism, including the door and solenoid from the IS220.
- Off cycle agitation timer added
- The coin kit is now KSLDC2, and the key kit is now KSLDK2.

## SERVICE BULLETIN

### Subject #1 : NDE550, NDE650, TDE550 and TDE650 Dispensing system.

Beginning with serial number date code -10N, the designs of the dispense drive motor and the dispensing vane have been improved, greatly increasing the strength of the assembly.

The engagement between the two is now a "double-D", meaning that there are two flats on the outside of the output shaft of the dispense drive motor. Because of this change they are NOT INTERCHANGEABLE with prior components.

Although the prior **vanes** are NO LONGER AVAILABLE, replacement drive **motors** to fit the PRIOR VANES are available, the part numbers are: 12-2407-22 (60 Hz) and 12-2407-27 (50 Hz).

#### Individual Part Number Reference:

|             | ND/NDE/TDE550      | ND/NDE/TDE650      | FD5 or FD6             | HQD550 or HQD650       |
|-------------|--------------------|--------------------|------------------------|------------------------|
| Drive Motor | 12-2677-21 (60 Hz) | 12-2677-21 (60 Hz) | 12-2407-22 (60 Hz)     | 12-2407-22 (60 Hz)     |
|             | 12-2677-26 (50 Hz) | 12-2677-26 (50 Hz) | 12-2407-27 (50 Hz)     | 12-2407-27 (50 Hz)     |
| Vane        | A37268-001         | A37267-001         | use existing inner bin | use existing inner bin |

As a convenience, there is a kit available that contains BOTH the vane and the drive motor. It may be used in any prior ND, NDE or TDE 550 or 650 dispenser.

#### The vane & drive motor kit numbers are:

| NDE/TDE550 60 Hz | NDE/TDE550 50 Hz | NDE/TDE650 60 Hz | NDE/TDE650 50 Hz |
|------------------|------------------|------------------|------------------|
| A37270-001       | A37270-002       | A37270-003       | A37270-004       |

Note: The above kits should not be used on machines built after serial number date code -10N.

### Subject #2: NDE Portion Control

Beginning with the same serial number as above, the portion control for dispensing has been deleted from the NDE550 and NDE650 dispenser. An optional kit is available to add portion control if specified by the user, the kit number is **KPC6/550**.

#### Beginning Serial Number Reference:

NDE650 - 008689-10N

NDE550 - 010699-10N

TDE650 - 008718-10N

TDE550 - 008386-10N

## SERVICE BULLETIN

**Subject: CD200 and CME256, CME506, CME656 (CM<sup>3</sup>)**  
**This bulletin supersedes PS-13-96**

The design of the CD200 has been changed to make installation of a CM<sup>3</sup> easier. The CD200 now includes a built-in thermostat and a wire harness to connect it to the CM<sup>3</sup> ice machine.

The first serial number of a CD200 with the new configuration is 010542-10N. All CD200s with date code -11N (May 1997) and later have the new design.

The capillary tube of the thermostat is inside a stainless steel tube that runs from the front of the ice storage bin to the back.

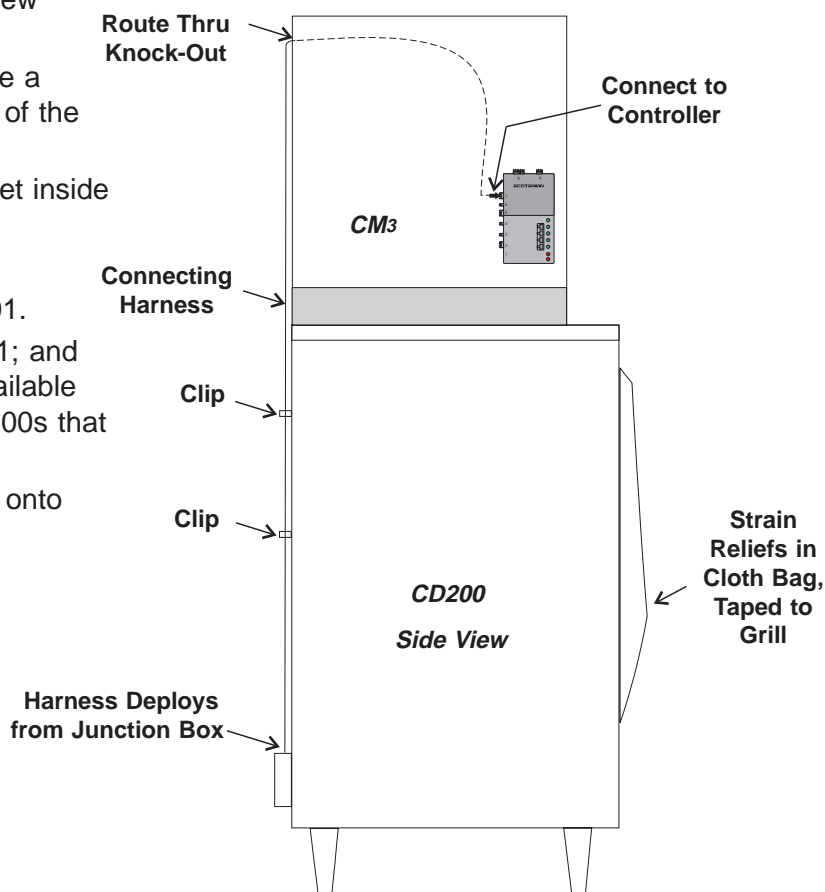
The thermostat body is mounted to a bracket inside the CD200.

The thermostat part number is 11-0427-23.

The wire harness part number is 12-2694-01.

The two kits, Baffle & Timer kit, A37077-001; and Bin Thermostat kit, A37086-001 are still available for use when CM<sup>3</sup> units are placed on CD200s that were mfg. prior to 8/9/96.

The new configuration cannot be retrofitted onto prior dispensers.



*Side View of New Installation Configuration  
for the Bin Control*



# SERVICE BULLETIN

## Subject: Various Changes

Several product changes have recently been made:

1. **Drain Fitting.** On many models the reservoir, overflow or bin drain fitting (casting) is now made of plastic. The new part number is: **02-3692-21** (includes mounting bolts), directly replacing the old part numbers of A31828-005 and A31757-001. Models affected include the AFE400, SCE170, NDE550/650 and TDE550/650.

2. **Flaker water inlet system.** The AFE400 flaker has changed from a copper inlet water line system to one made of plastic, similar to that used on SCE170, FDE470 and TDE470. Other models changing include: NSE650, NME650, NME950RL, NM952RL, FME1200RL, FM1202RL, NME950, FME1200, NME1250, FME1500, NME1850, FME2400, FME2400RL, NM1852RL and FM2402RL

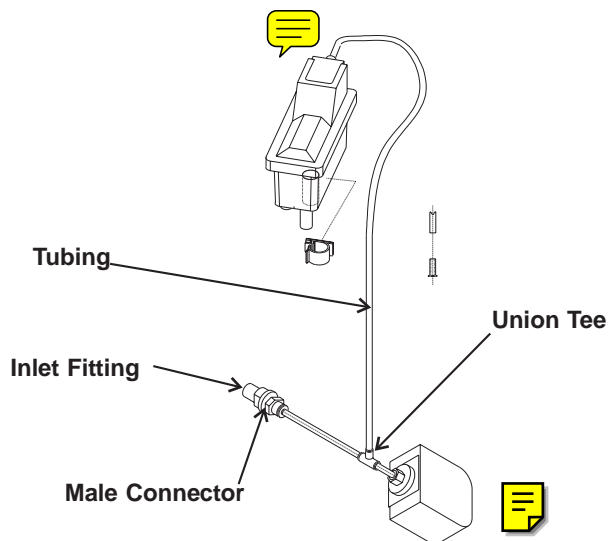
3. **SLE300 and SLE400 top panel.** Since date code 08A, these two models use a single piece top panel. When stacking, a new kit, item number **KSSLE-22**, is required. The replacement top panel is part number **C80626501**.

4. **CD200s** no longer use the cube cutter, located to the right of the cube chute.

5. **RS160/220 and IS160/220.** Use the following for sweep arm part number identification: These parts are NOT cross-referenced.

**Flaker Water System Parts**

| Inlet Fitting | Union Tee  | Tubing - order by the foot | Male Connector |
|---------------|------------|----------------------------|----------------|
| 16-0835-01    | 16-1040-01 | 13-0895-01                 | 16-1039-01     |



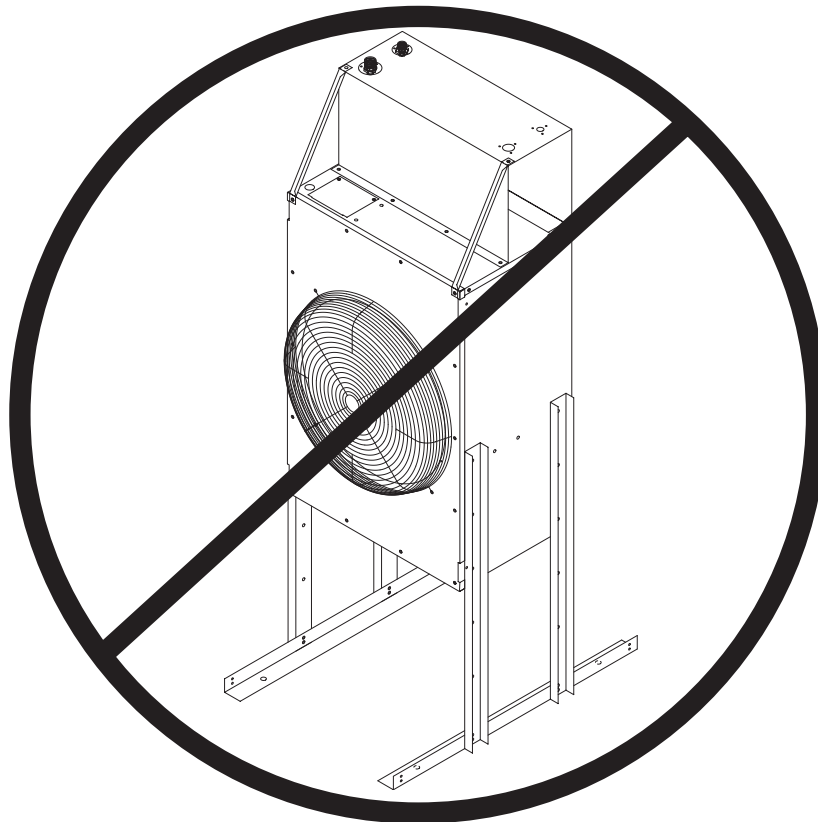
| Model          | Sweep Arm Part Number |
|----------------|-----------------------|
| RS160          | A36846-001            |
| RS220 or IS220 | A36846-002            |
| IS160          | A36846-003            |

# SERVICE BULLETIN

## SUBJECT: ERC101, ERC201, ERC402, ERC151 and ERC302 Installations

The above ERC remote condensers are no longer approved for new installations where they would be mounted on their ends (tubing connections at the top).

ERC311, ERC411 and ERC611 limitations remain as they were.



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# SERVICE BULLETIN

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**Subject: Model Change.** The following modular cubers have had a model series change:

CME1356 from a "B" to a "C"

CME1656 from a "B" to a "C"

CME2006 from a "B" to a "C"

The change is to the top panel. The new panel is **plastic** and will **only fit C series and higher** machines. The part number is: **02-3823-21**.

The prior panels will still be available for use as service parts on A and B series machines.

# SERVICE BULLETIN

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**Subject: CME256, 506, 656, 806, 1056 Panel Change.**

The top panel material of the above machines has been changed from stainless steel to grey plastic. The plastic top panel's part number is: **02-3822-21**. This is a complete top panel that fits **all** CME256-806, from the A through the D series.

The top panel for the CME1056 has also changed to grey plastic. Its part number is **02-3822-22**.

Production of the CME256, 506, 656, 806 and CME1056 with plastic top panels began in June 2000.

# SERVICE BULLETIN

## Subject: Bin Thermostat Kit for CME256, CME506, CME656 and CME806

A kit is now available to install a bin thermostat on the above models. The kit number is: **A37749-001**.

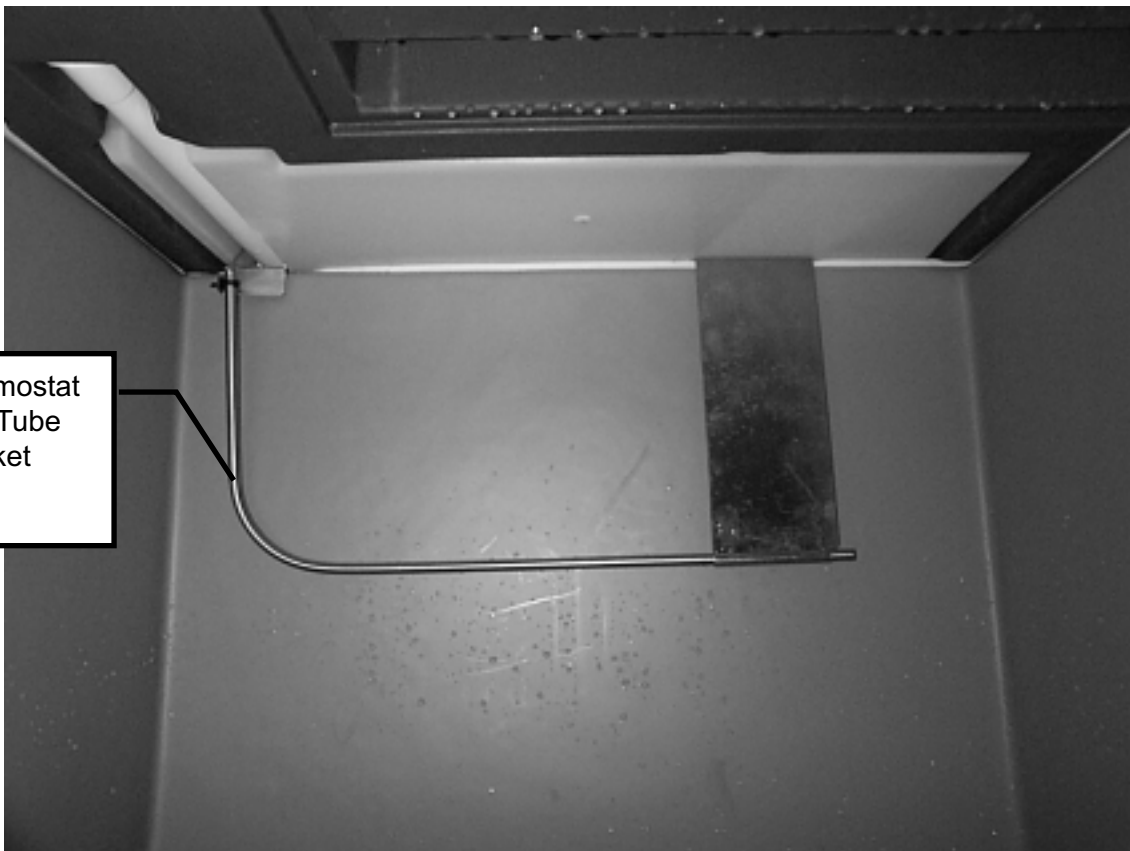
The kit consists of a thermostat, brackets, tubing and a wire harness. It also includes a special harness that must be used when stacking two of these machines.

The above listed models use their ice sensors to control the level of ice in the bin. This typically results in a very full bin, maximizing the amount of ice available for a user. In some cases a user may not want that much ice. Use of this thermostat kit will lower the peak ice level about 8 inches at the ice drop area.

The kit fits most of the bins these machines are used on. For example it can be used on an HTB555 or a BH550. It also fits a BH800 or a BH900 when they are used with the normal bin top adapter. Another application would be when recycling a used bin that does not have a long enough baffle.

This kit is not recommended for use with a dispenser. Use on an HTB250 will only let the bin fill about ½ full, and is not recommended. Using it on an HTB350 will result in a bin that is about two-thirds full of ice when the machine shuts off.

Thermostat  
Cap Tube  
Bracket



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# SERVICE BULLETIN

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## Subject: Legs & Casters

Scotsman leg kits, KLP2E, KLP7, and KLP2S, caster kits KSLBC2, KBC1, KBC20, KBC8 and KBC9 all have the same thread size: **5/8 - 11**.

Nearly all Scotsman bins and machines with storage have the same leg thread size too: **5/8 - 11**.

### This includes:



SCE cubers

AFE flakers

NSE nugget flaker

BH bins

HTB bins

SLB bins

HD, SLD and CD dispensers. Flanged-foot legs (KLP7) included with HD356.

DMS machine stands

### Exceptions:

CS60, CS55, AC125 and similar.

CSW45, CSWE1 and similar

IS/RS dispensers (thread size 3/8 - 16) use KLP5 leg kit

Consumer machines like the DCE33.

B530, BH1351, BH1352, BH1360 and similar prior bins. See each bin's individual parts list.

### Caster Applications:

KBC1 fits all that accept 5/8 - 11 legs, but should not be used with an HTB bin.

KBC20 is designed for HTB bins.

KBC8 (for BH550) and KBC9 (for BH900) are used to raise the bin height when necessary.

KSLBC2 is for applications where its 3" height is preferred over the standard 4".

Casters are not intended for use with stacked bins or with machine stands.

# SERVICE BULLETIN

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**Subject: AutoSentry and RO Water**

RO (Reverse Osmosis) purified water is available in several grades of purity. The typical grade of RO water used as the water supply for an AutoSentry controlled Flaker\* works fine. However, ultra-pure water that does not conduct electricity will interfere with the ice machine's operation. If the water is so pure (as water becomes more pure its ability to conduct electricity is reduced) that electricity cannot be conducted, the conductivity probe in the reservoir cannot sense the presence of water and will not allow the machine to start.

The conductivity level for the water supply to these models must be no less than 35 micro/Siemens / cm.

If you require any additional information, contact Scotsman Technical Service.

\* Including models NDE554, NDE654, NDE754, FDE474, NME654, NME954, NME1254, NME1854, NME2504, FME804, FME1204, FME1504, FME2404, or FME3004.



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**Bulletin Number: PS - 5 - 2001**

**Bulletin Date: March 2001**

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# SERVICE BULLETIN

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## **Subject: CME2006 Panel Insulation Kit**

A product improvement has been developed for the CME2006. The purpose of the improvement is to reduce the volume of sound emitted from the ice machine during the harvest cycle. The improvement is effective with all CME2006s shipped after March 1.

A field kit has also been developed to allow the improvement to be placed on prior units. The kit number is **SRKLG**. It consists of foam inserts that are designed to be placed onto the inside of the left half of the top panel, the inside of the left side panel and the inside of the left half of the front panel.



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# SERVICE BULLETIN

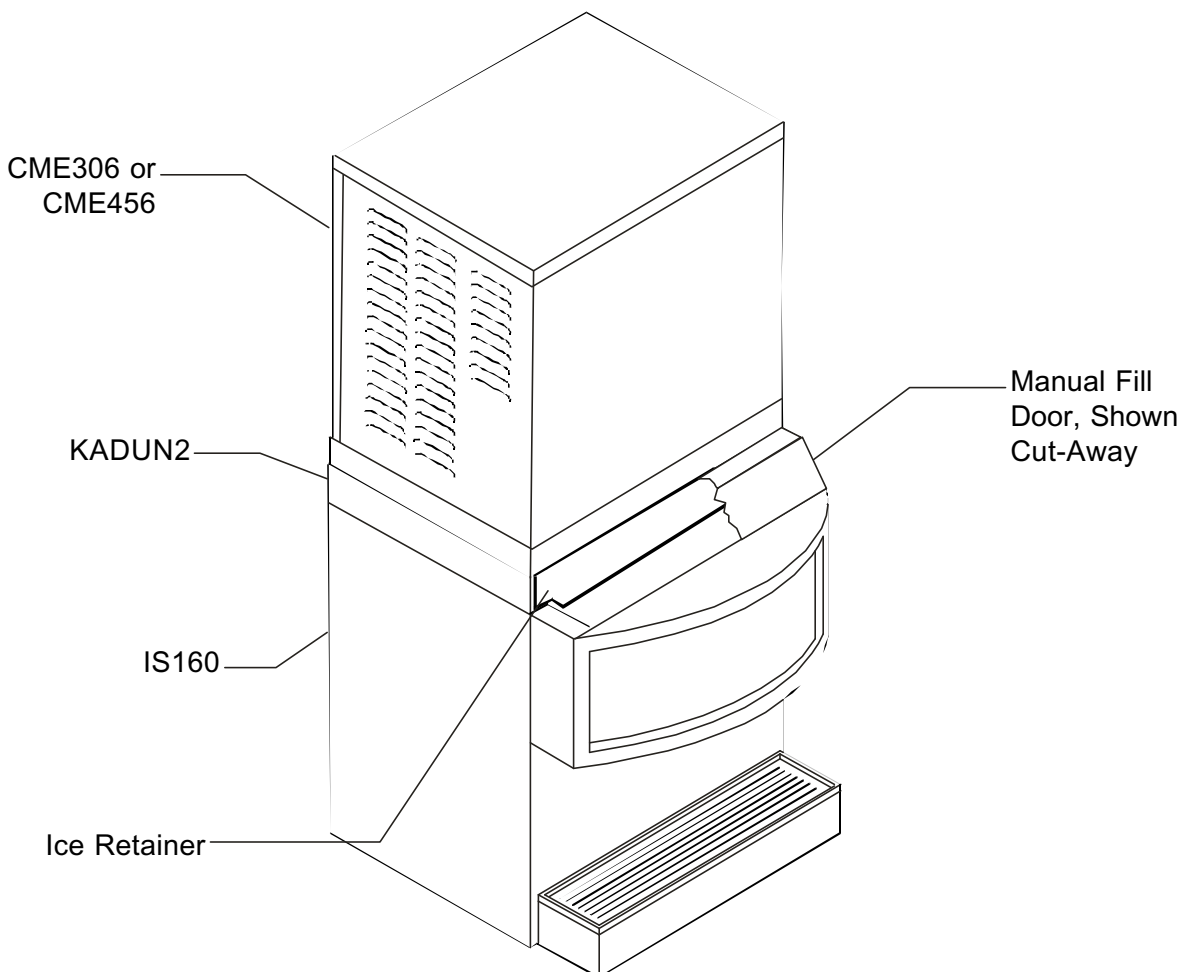
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**Subject: IS160 and RS160 when used with CME306 or CME456**

Placement of a CME306 or CME456 onto a IS or RS160 requires the use of the KADUN2 adapter. In most cases this is the only additional kit that is needed.

However, in some installations ice falls too far forward and contacts the manual fill door. To prevent that from occurring, an ice retainer has been developed. Its part number is: **A37897-021**.

It must be attached to the KADUN2 by drilling two holes and securing it to the adapter with the supplied sheet metal screws.



# SERVICE BULLETIN

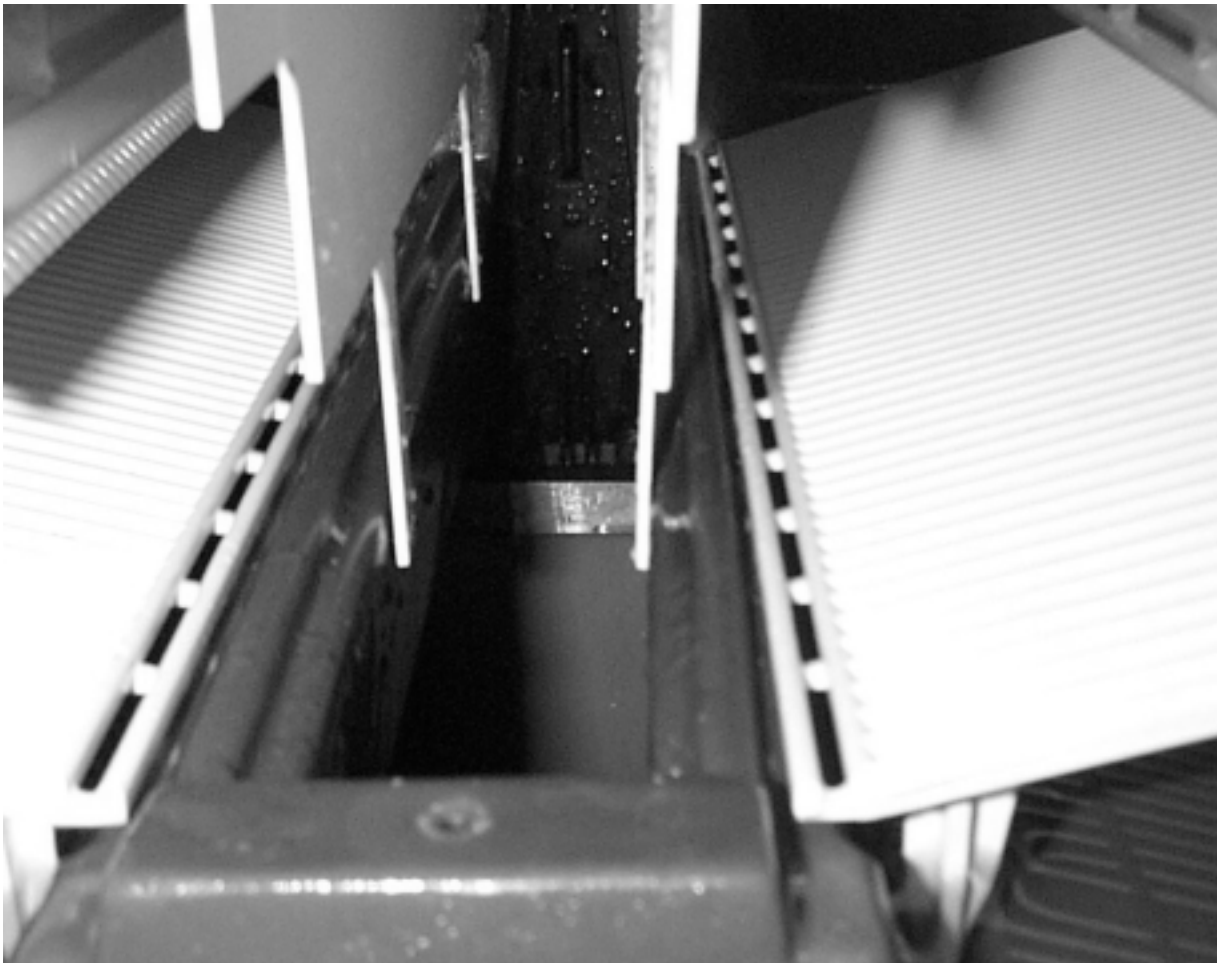
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**Subject: Stacking kit for CME1356, CME1656 and CME2006**

The stacking kit for the CME1356, CME1656 and CME2006 has been changed. The new kit's number is: **KSCME6-LG-B**.

This kit includes the gaskets, brackets, shields, hardware and the controller harness required to stack any combination of these three models. The new kit is simpler, easier to install and more tolerant of installation variables. The prior system included an upper unit drain that is no longer used.

One key difference is the shields used to guide the ice through the lower unit. The shields for the new kit hang from hooks and are aligned by gravity. They also have tabs to limit their outward movement. The tabs insert into the ice outlet port of the bottom unit, as shown below.



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# SERVICE BULLETIN

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**Subject: IS160, IS220, RS160 and RS220 Change - supercedes PS-6-2001 and PS-11-96.**

The ice and ice and beverage dispensers now being produced have changed.

The changes include:

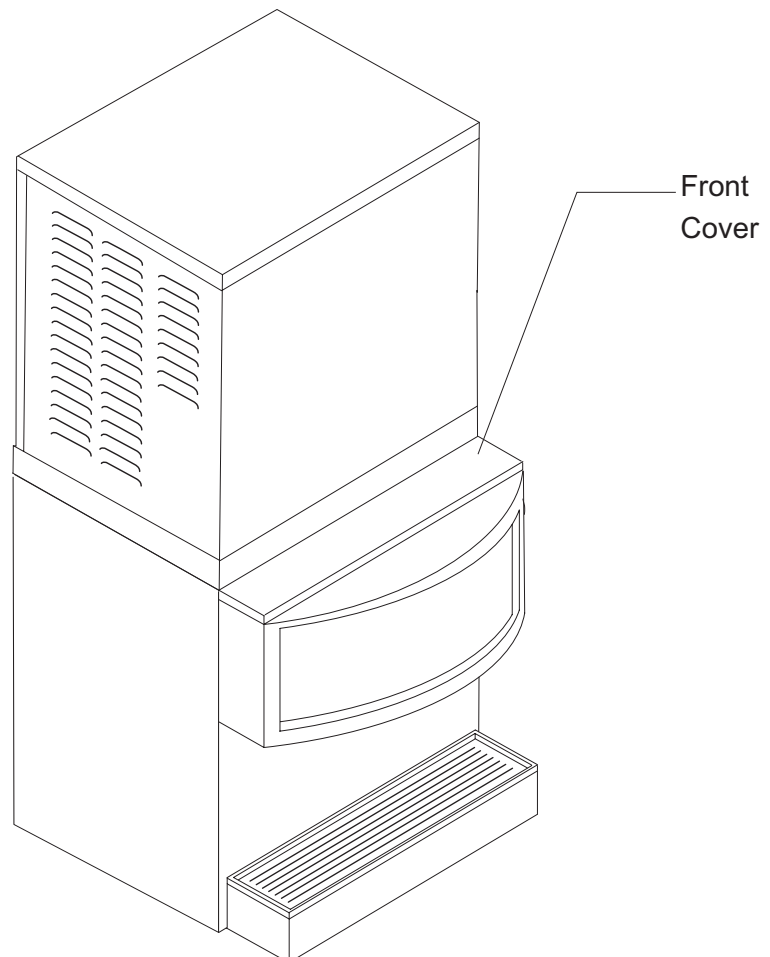
- New graphics - no part number change
- New, shorter radius, sweep arm for the 220s. The part number is **02-3916-01** and fits all 220s.
- New front cover or lid for use when an ice machine is stacked on the unit. The part numbers for the front covers are: RS/IS160: **02-3915-01**, RS/IS220: **02-3915-02**

**The changes eliminate the need for the KADCM2 and KADUN2 adapter kits.** Because the adapter kits are no longer needed, installations of these dispensers with ice machines on them will be lower in cost, ice level, and overall height than the prior models.

The changes began with the following units: IS160 BF 419279-01R; IS160 LF 419326-01R; IS220 BF 419346-01R; IS220 LF 419404-01R; RS160 BF 419421-01R; RS160 LF 419461-01R; RS220 BF 419496-01R; RS220 LF 419538-01R

The dispensers now ship with the regular hopper cover or lid that they always had; additionally a separate, short front cover will also be shipped in each unit, packed with the sink assembly. This cover will fill the space between the front edge of the ice machine and the front of the dispenser hopper.

When installing an ice machine directly onto the dispenser, foam gasket tape (such as Scotsman Part Number 19-0503-04) is recommended to be used as a sealing surface between the ice machine and the dispenser's top edge. The 160s will need about 6 feet of tape, and the 220s will need about 7 feet.



# SERVICE BULLETIN

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## SUBJECT: MDT Changes

**MDT3 and MDT4:** The location of the touch free sensor has been moved closer to the ice dispensing spout. This was done by moving the mounting holes in the splash panel up towards the spout. The part number of the splash panel (02-3878-01) that locates the sensor has not changed, but the hole location has. All MDT3s and MDT4s shipped since August 17, 2001 include this change.

**MDT6:** A new spout and water tube have been designed and are now part of all MDT6s. They move the dispensing area closer to the splash panel.

- The new ice chute part number is **02-3909-01**
- The new water tube part number is **A34601-002**
- The new ice chute/solenoid cover is **A35321-003**

Mounting bracket A37883-001 has been modified to accept the new spouts. All MDT6s shipped since September 1, 2001 have this change.

# SERVICE BULLETIN

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**Subject: CME1356 and CME1656 E Series**

The left side panel on the above air cooled models has been changed. It is now louvered and the air cooled E series takes air in from the front AND the left side. Warm air is discharged out the back as before. Both intakes have air filters (part number 02-3485-01) under them.

A baffle has also been added, similar to the ones used on the CME1056A, CME306A and CME456A. It ships attached to the back panel and is intended to be installed at the left edge of the condenser to reduce air recirculation when the machine is installed in a corner. The baffle's part number is A38011-001.

The new louvered panel is not interchangeable with prior CME1356s or CME1656s, and cannot be placed on water cooled or remote cooled units.

E Series Left Side Louvered Panel Part Number.....A38025-001

Although the prior left side panel must be used as a replacement on the A - D series, there is a retrofit kit.

**Retrofit Kit:** A kit is available to add gaskets, a baffle and a stainless steel louvered left side panel with filter to A - D series air cooled CME1356 and CME1656 machines. The kit number is:

**A37983-001.** Note: The left side panel in the kit is different from the left side panel used on the E series units, and they are not interchangeable.

**Additional Change:**

Production of the CME1356 and CME1656 with the blue controller begins with the E series.

Beginning with February 2002 production, the CME2006 will also start using the blue controller. The new controller's use will be phased in by model throughout 2002.



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**Bulletin Number:** PS - 10 - 2002  
**Bulletin Date:** June 2002

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# SERVICE BULLETIN

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## **Subject: MDT3, MDT4 Updates**

The MDT3 and the MDT4 have been changed.

**Packaging.** The carton and skid for these two models have been made wider to improve their shipping stability. The prior carton width was 16", the new width is 23.25". This change began 5/10/02.

**Spout:** A clear plastic spout, part number **02-3944-01**, replaces the 02-1804-00 spout. The new spout is a direct replacement for the prior spout and attaches using the same screws. The new spout is 2" longer than the old one and tapers to a 2" ID outlet, providing a more accurate path for ice during dispensing. This change began 5/10/02.

**Bin Bottom:** Bin bottom **A38272-001** replaces A34767-001. The new bin bottom directs the ice towards the center of the discharge chute, reducing ice build up on top of the chute.

# SERVICE BULLETIN

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## **Subject: Air Intrusion Kits & Related Changes**

*30" Cabinets - CME256, CME506, CME656, CME806, CME1056*

In some cases the air cooled versions of the above models will draw air into the freezing compartment from the ice storage bin, especially if the bin door is left open. Scotsman has developed a kit that reduces the flow of air from the freezing compartment. The kit number is **A38015-001** and includes a replacement evaporator cover, front panel insulation (pn 02-4006-01) and front panel gasket (pn 02-4005-01).

*48" Cabinets - CME1356, CME1656, CME1856, CME2006*

The 48" air cooled models were changed in early 2002 (see PS-3-2002) to improve air flow. Recently an additional change has been made to all the 48" models. That change adds front panel insulation (pn 02-4006-02) and a front freezing compartment gasket (pn 02-4005-01).

A retrofit kit is available for prior air cooled models, it is part number **A37983-001**. As in 2002, it includes a louvered left side panel, air filter, air baffle and foam gasket. Front panel insulation (pn 02-4006-02) has been added to the kit.

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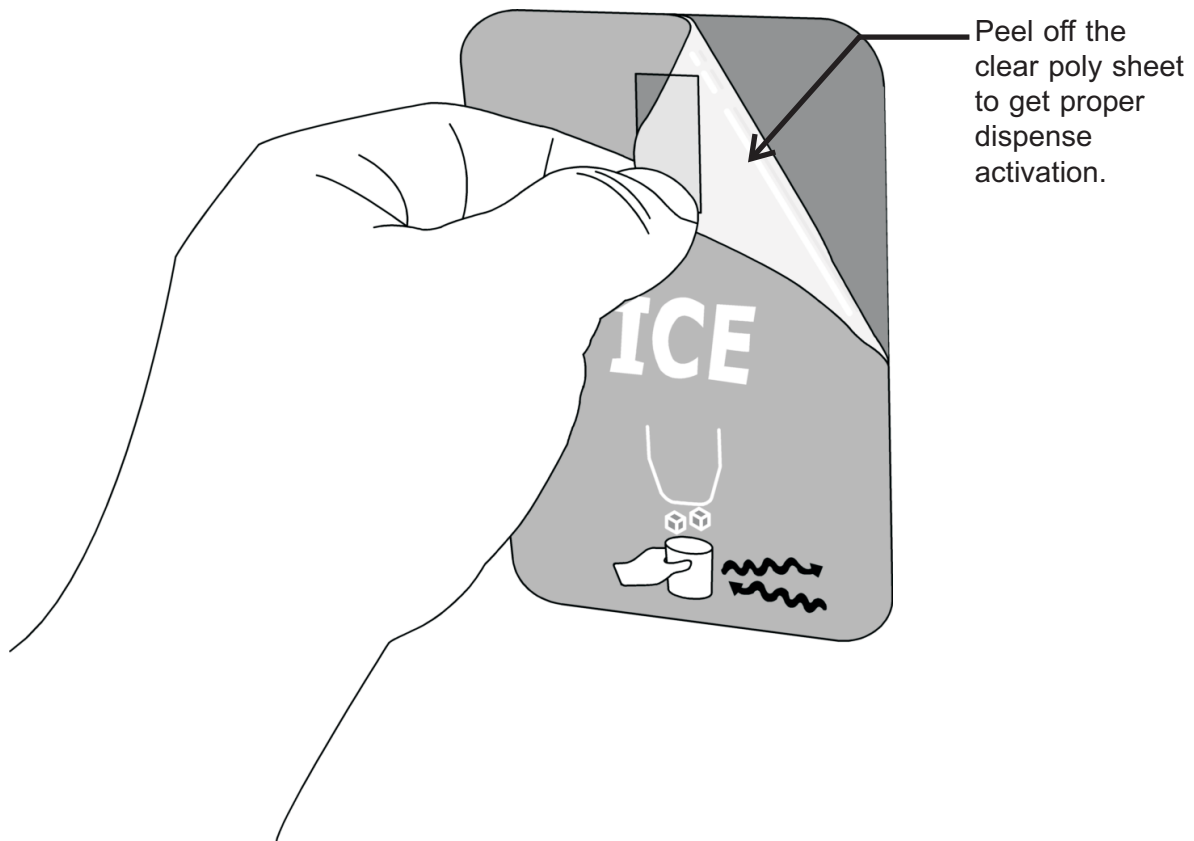
# SERVICE BULLETIN

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## Subject: TDE and MDT Ice and/or Water Sensor Labels

The Touch-Free system uses an infrared triangulation position sensor to detect the user's container and activate the dispense system. The sensor is mounted to the unit's splash panel.

The ice and water labels on a Touch-Free unit's splash panel direct the user to the sensor's location. There is a window in the label for the sensor to "see" through. When the units are shipped, an additional clear poly sheet covers the label and the window to protect it from shipping damage. **That poly sheet should be removed at the point of installation.** Although dispensing will work with the poly sheet in place, activation with clear cups and pitchers will improve when the poly sheet is removed.







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**Bulletin Number: PS - 8 - 2004**

**Bulletin Date: June 2004**

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# SERVICE BULLETIN

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## **Subject: Serial Number Format Change**

Scotsman has been using a number-letter combination serial number & date code since 1972. Starting now, a new serial number format and date code system is in effect. As before the date code lists the month and year the unit was manufactured, but now they are represented by the last two digits of the year and the two digits of the month.

The new serial number format begins with the 4 digit date code, continues to a fixed Scotsman number (1320) and ends with a six digit number.

New serial number example: **04051320123456**

0405 is the date code, in YYMM format. - This example is May, 2004. Changes monthly.

1320 is the Scotsman identifier. - This will not change.

123456 is the serial identifier. - This will change with every unit.

# SERVICE BULLETIN

## Subject: New Vending Control Panel for MDT2

The dispensing switch panel for the MDT2 has been changed. The label-over-push buttons system has been changed to a membrane switch panel with separate light board.

Part number F060613-00 is a retrofit kit that replaces the existing dispensing PC board, the label and the mounting box with a new assembly.

F620483-00 is the membrane switch panel, and F620483-03 is the LED display board. They can be only be used on units that were originally equipped with membrane switches. Prior models can use the kit.

The ice and water dispensing label F650753-01 has been changed to improve its durability and will remain available.





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**Bulletin Number: PS - 2 - 2005**  
**Bulletin Date: January 2005**

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# SERVICE BULLETIN

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## **Subject: MDT Portion Controlled Dispensing Kit**

A time-delay relay kit is now available for addition to the MDT3, MDT4, MDT5 and MDT6. The purpose of the kit is to limit the amount of ice dispensed per activation.

The kit number is **KPC-MDT**. The kit includes a time delay relay and potentiometer. When the Touch-Free dispense system is activated, the time delay relay powers the dispense motor and / or door solenoid for a limited time. That time is adjustable to accommodate the cup or glass being used.

A typical application for the kit is a high volume dispense situation where the amount of ice spilled is unacceptable. Spilled ice is usually caused by overfilling the container during dispensing, followed by the extra ice being dumped into the unit's drip tray. Adding the kit allows the amount of ice per dispense to be set to match the amount an individual needs, so there is less waste. This is especially helpful on the MDT6, which is a high volume, rapid dispensing model.

The KPC-MTD includes a potentiometer for time dispense adjustment.

The kit does not apply to the MDT2C12, which already has a portion control system.

# SERVICE BULLETIN

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**Subject: Ice Machine Sanitation After a Boil Water Order**

The ice machine should be shut off during a boil water order unless the ice is not used in drinks or for human consumption.

After the boil order has been lifted, the ice machine and its water supply have to be re-sanitized.

**Materials Needed:**

- Ice machine cleaner
- Locally approved sanitizer
- New, small sprayer, similar to those used for gardening
- Clean cloths
- Clean Bucket

**Definitions**

- Food Zone: Compartment where ice is made. Includes the water system and surrounding panels.
- Drop Zone: Chute or slot in base where ice is discharged.
- Water System: Any place in the machine, excluding the condenser, that water or ice touches.

**Basic Post Boil Order Procedure** - Refer to ice machine manual or cleaning instructions for details specific to that model.

1. Restart the ice machine and operate it for 2 hours. This insures that clean water has gone through the plumbing to the ice machine. Disregard this step if the machine has been making ice for at least two hours after the boil water order has been lifted.
2. Change the water filter cartridge(s). If there are no water filters, go to step 4.
3. Operate the ice machine for an hour, then shut it off.
4. Discard all ice in the ice storage bin.
5. Remove ice storage bin baffle and set aside.
6. De-scale the ice machine's water system and the inside of the storage bin per the instructions on the unit's cleaning label or in the product's manual. Generally this requires mixing ice machine cleaner, pouring it into the reservoir of the ice machine, allowing it to circulate for a certain time and then flushing it out. On a bin the liner walls are washed with the ice machine cleaner solution.
7. Repeat the scale removal process with sanitizer. The reason for using ice machine cleaner is to get any scale off the surfaces so that the surface can be sanitized. Use the sprayer for easy coverage of interior food zone parts. Thoroughly spray or wash the entire food and ice drop zone with the sanitizing solution. Use a locally approved ice machine sanitizer. A potential sanitizing solution can be made by mixing one ounce of household bleach to two gallons of warm water.

8. Sanitize the ice storage bin by thoroughly spraying the interior with the sanitizing solution. Include the baffle and the inside of the bin door.
9. Allow parts to air dry.
10. Place all parts removed back to their original places and restart the ice machine.

#### **Ice Machine Sanitation after Submersion**

Because of very significant costs to replace most parts and the likely contamination of the ice machine cabinet, replacement with a new machine is recommended when an ice machine has been submerged in flood water.

All electrical components except for the hermetic compressor must be replaced. This includes fan motors, relays, control boards, solenoid coils, pump, capacitors, PTCRs, contactors, and sensors.

In addition, if the machine is a flaker, the gear reducer and the auger bearings must be replaced.

If the storage bin has been submerged, it must be replaced.

If the ice machine cabinet, base or freezing compartment has been submerged, it must be replaced.

All wiring must either be replaced or thoroughly dried and the terminals cleaned.

Sanitation must be thorough. All water system parts must be removed, de-scaled and then sanitized. That includes covers, brackets, deflectors, hoses, water distributors.

Follow the boil order procedure after all components above have been changed and sanitized.

**Note: None of the above is covered by any warranty nor is there any guarantee that even if all the steps are followed, a machine or bin that has been submerged can be reconditioned adequately to make ice fit for human consumption. Replacement is strongly recommended.**

# SERVICE BULLETIN

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## **Subject: Setup of Nugget Ice Machines on Ice and Beverage Dispensers**

*General information by dispenser brand, specific instructions provided with each kit:*

### **Scotsman ID150, ID200 and ID250**

- Add correct adapter kit (see Scotsman sales literature)
- Add thermostat kit KDIL-N-ID2 with ID200 and ID250. Not used on ID150.
- Add KNUGDIV diverting plate kit
- Keep restrictor plate, adjust to 1.5" opening
- Adjust agitation time to 2 seconds on every 3 hours

### **Cornelius**

- Add correct adapter kit (see Scotsman sales literature)
- Change agitator to R629088514 when using ED150 w/cold plate
- Add thermostat and ice slide kit KDIL-N-200 when used with ED/DF200
- Add thermostat and ice slide kit KDIL-N-250 when used with ED/DF250
- Add KNUGDIV diverting plate kit
- Keep restrictor plate, adjust to 1.5" opening
- Adjust agitation time to 2 seconds on every 3 hours

### **Lancer - nugget ready dispensers only**

- Use Lancer adapter with Nugget-ready Lancer dispenser
- Use Lancer thermostat bracket, included with Lancer adapter
- Add Scotsman thermostat kit KDIL-N-L
- Route thermostat cap tube per Lancer instructions - see page 3
- Position ice machine flush with right side of dispenser
- Adjust agitation time to 4 seconds on every 150 minutes

### **SerVend**

- Install components as recommended by SerVend - if an ice level control is added, connect contacts in series with mode switch of ice machine.

### **NME654, NME954 and NME1254 General Information:**

- Added bin control contacts to be wired in series with the mode (toggle) switch.
- Thermostat must not shut unit off until ice is in full contact with cap tube or bracket
- TXV bulb must be tight to suction line
- Water level in reservoir should be checked

**Adapters:** All installations require an adapter plate. The adapter plate covers the top of the dispenser, has a drop zone hole for the ice to go through and supports the ice machine. Some adapters include a baffle to keep the ice from forcing its way out the front during dispensing.

**Kits:** Additional kits are required for proper operation. See the table for kit applications.

- KNUGDIV – diverter kit for Scotsman and Cornelius dispensers. Installed in the ice chute area.
- KBT bin tops. Adapters for Scotsman and Cornelius dispensers.
- KDIL-N-ID2. Kit to add a bin thermostat to ID200 and ID250
- KDIL-N-200. Kit to add a bin thermostat and ice slide to 200 size Cornelius ice beverage dispensers. Also includes KNUGDIV
- KDIL-N-250. Same as above except fits the 250 sized models.
- KDIL-N-L. Kit to add a bin thermostat to the special nugget capable Lancer dispenser.

**Adjustments:** All the dispensers have automatic agitation to keep the ice stirred up. If agitation is too frequent, the nugget ice will be damaged and will become difficult to dispense. The Scotsman and Cornelius dispensers need to be set to 2 seconds on every 3 hours and the Lancer needs to be set to 4 seconds on 150 minutes off.

The Scotsman and Cornelius dispensers also have a restrictor plate at the outlet of the hopper. That plate should be adjusted to be 1.5" open to limit the speed the nugget ice flows out during dispensing.

**KDIL Overview:** The KDIL-N-ID2 kit includes a thermostat, thermostat mounting bracket and cap tube mounting bracket.

The KDIL-N-200 and 250 kits include a thermostat, thermostat mounting bracket, cap tube mounting bracket and ice slide. The cap tube mounting bracket is also the baffle that mounts to the adapter. The ice slide snaps into the slot in the bottom of the ice hopper that allows ice to flow to the cold plate. The thermostat is wired in series with the ice machine mode switch and mounts in the control box. A KNUGDIV kit is also included.

The KDIL-N-L kit includes a thermostat and a mounting bracket for the control box. A separate part from Lancer is also required. That part includes an ice machine mounting plate and a bin thermostat cap tube bracket. The thermostat in this kit is also wired in series with the mode switch.

### Kit and Adapter Applications

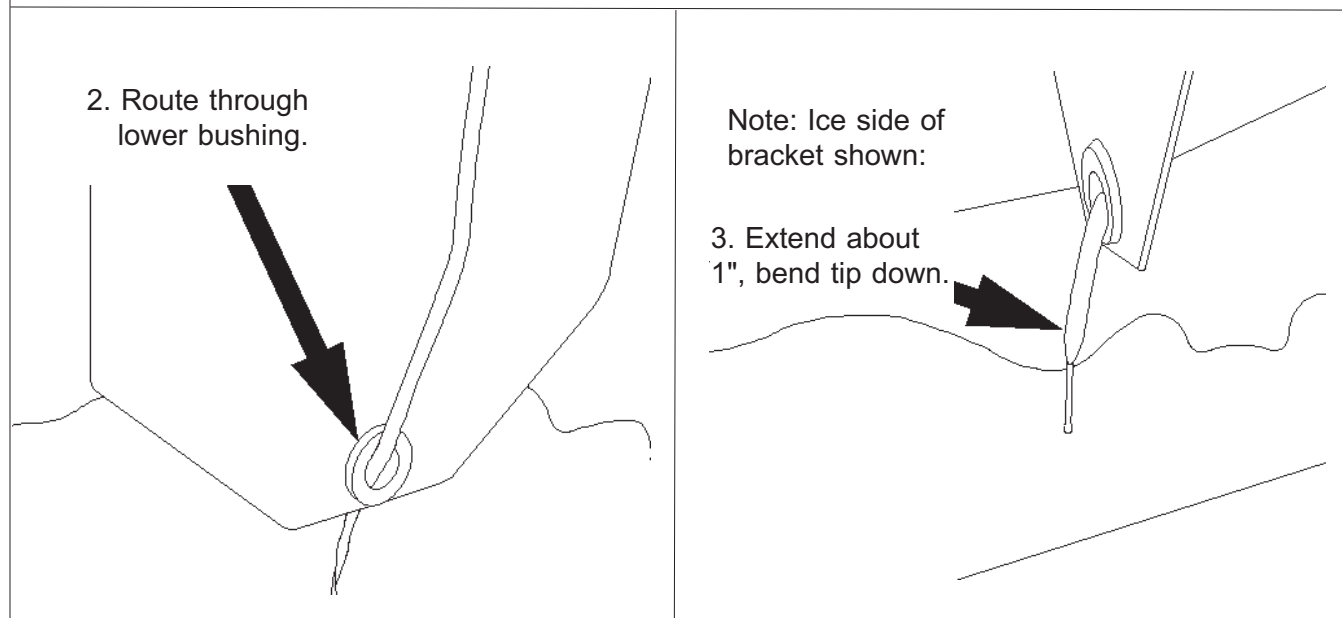
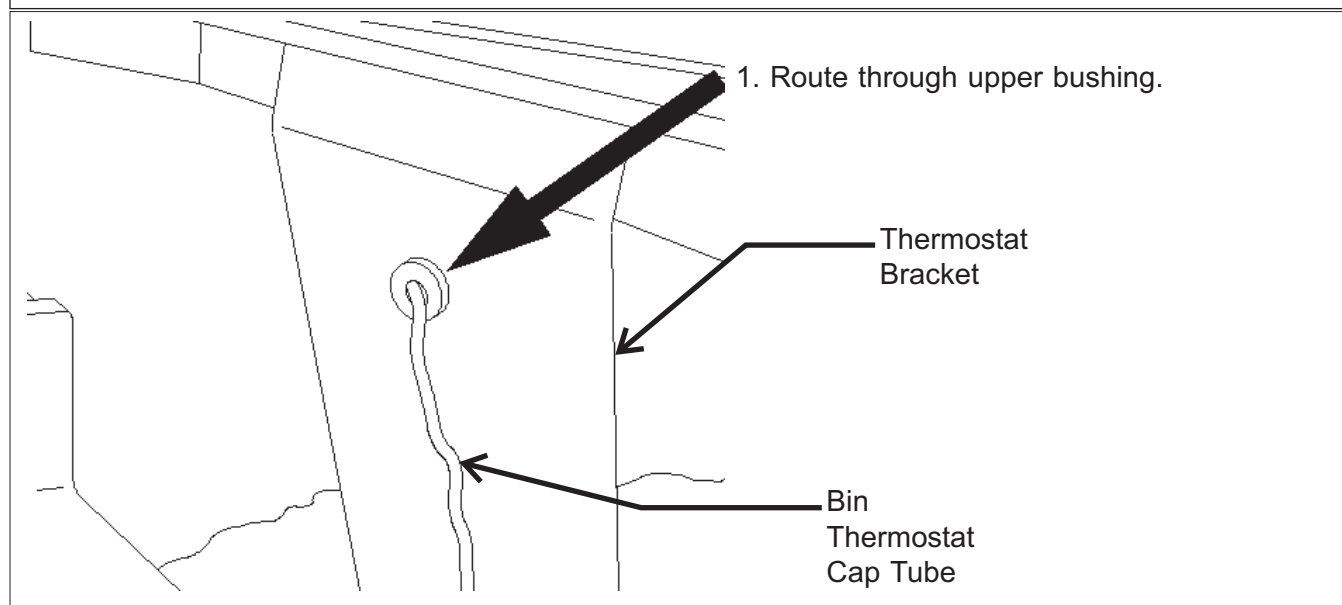
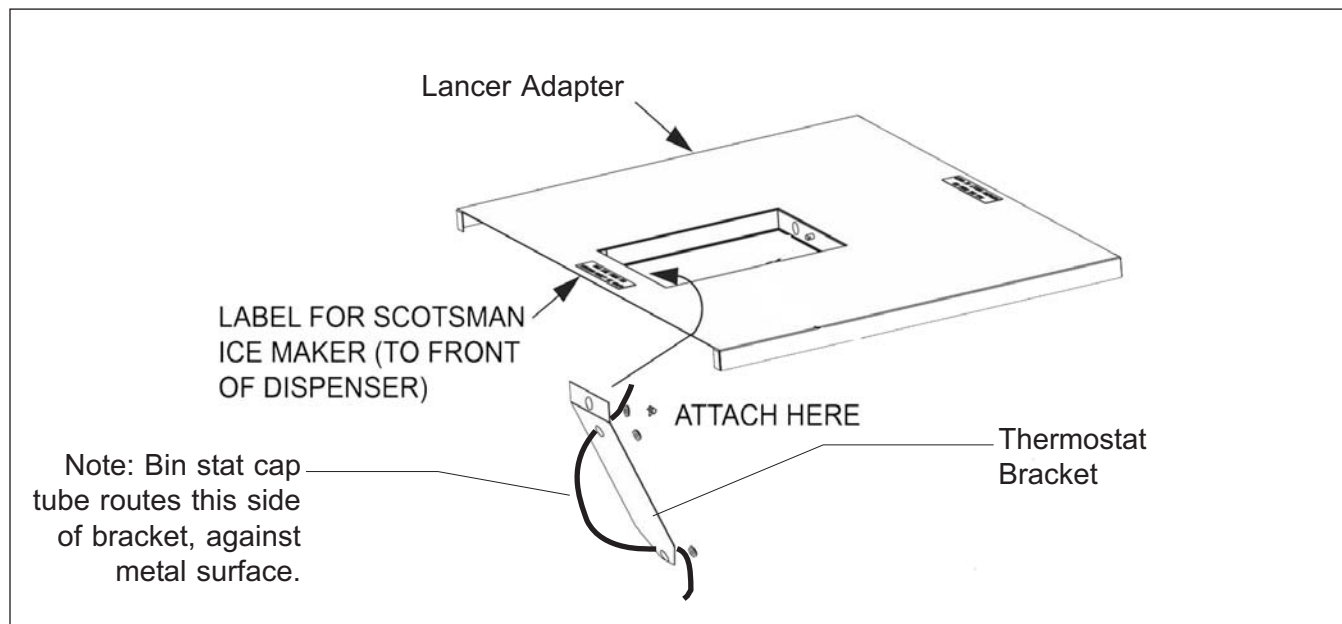
|   | NME654                                  | NME954                           | NME1254           |
|---|---|----------------------------------|-------------------|
| Scotsman ID150                                | KBT42, KNUGDIV                          | KBT42, KNUGDIV                   | does not fit      |
| Scotsman ID200 or ID250                       | KBT46*, KDIL-N-ID2                      | KBT46*, KDIL-N-ID2               | KBT44, KDIL-N-ID2 |
| Cornelius ED/DF150                            | KBT42, plus agitator R629088514*        | KBT42, plus agitator R629088514* | does not fit      |
| Cornelius ED/DF200                            | KBT46*, KDIL-N-200                      | KBT46*, KDIL-N-200               | KBT44, KDIL-N-200 |
| Cornelius ED/DF250                            | KBT46*, KDIL-N-250                      | KBT46*, KDIL-N-250               | KBT44, KDIL-N-250 |
| Lancer (must have N in part number) 30" model | KDIL-N-L and Lancer part number 82-3491 |                                  |                   |

\* Includes KNUGDIV

**Instructions:** Complete instructions are included with all kits and adapters.

**Replacement Parts:** Thermostat: part number 11-0353-23

## Lancer Bin Thermostat Bracket and Cap Tube Routing





## Dispensing Service Diagnosis of Nugget Ice Machine and Ice and Beverage Dispenser

| Problem or Symptom                           | Possible Cause  | Probable Fix   |
|--|---|--|
| No ice is dispensed                          | No ice in dispenser   | Check for power to ice machine   |
|  |   | Check thermostat   |
|  |   | Check control system, if shut down determine cause   |
|  |   | Check water supply   |
|  |   | Check refrigeration system   |
|  | Ice in dispenser, does not dispense   | Check vend switch of dispenser   |
|  |   | Check dispenser door and solenoid, if used for no operation or sticking  |
|  |   | Check agitator drive motor   |
|  |   | Check agitator if turning, if not check for broken drive pin. Broken drive pin may be due to thermostat placement or incorrect cut in/out. |
|  |   | Out of ice - too much demand.  |
|  | Ice in dispenser, but bridged over the dispense agitator. All the ice has been dispensed from under the bridge. | Check thermostat. Confirm it is in the correct spot, using the correct bracket, routed properly and is functioning.                        |
| Ice dispenses but very slowly or erratically | Missing one or more kits or adjustments   | Check for thermostat, bracket, adapter, cap tube routing, diverter use, agitation time errors.   |
|  | Damage to internal parts of dispenser   | Check for bent agitator  |
|  | Ice sticking to dispense wheel  | Check thermostat for cut in and cut out.   |
|  |   | Check refrigeration system for proper operation.   |
|  |   | Check agitation time settings - too frequent or too long will make ice fragment  |
|  | Customer overfilling cup, backs ice up into chute   | Check position of restrictor plate   |
|  | Excessive heat in room or near dispenser  | Exhaust heat or move heat source away from dispenser   |
| Too much ice is dispensed                    | No restrictor plate   | Add restrictor plate, set to 1.5" opening (Scotsman and Cornelius dispensers).   |

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# SERVICE BULLETIN

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**Subject: Panel change to the MDT2**

The front and top panels for the MDT2 ice maker-dispenser have been changed. The change began with serial number 767396- 10T.

The seam between the front and top panels was a straight line, now it is curved so the cover of the bin can be removed without taking off the front panel.

This affects the service part numbers. The new numbers are:

- Top panel F660811-00
- Front panel F660812-01
- Front and top panel kit, includes both of the above F060600-03

The prior front and top panels will no longer be available, and are not interchangeable with the current panels. On a prior model that needs either the top or front panel, order the kit.

Curved Seam



*New Panels*

# SERVICE BULLETIN

**Subject: Panel and Air Flow Change on FME804, NME654, FME1204, NME954, FME1504RL and NME1254RL**

The front panel on all the above models is changing from louvered to non-louvered. The air cooled models are also changing from non-louvered to louvered service panels. This changes their air-flow pattern from in the front and out the back to in the sides and out the back.

There will not be a model number or revision change; panel parts must be ordered as needed by part number for either louver or non louver applications. See the matrix below.

Note: Panel application is critical on air cooled models. The wrong panel will allow unfiltered air into the condenser, reduce air flow, or stop air flow completely.

**New Part Number Matrix**

|                      | Front panel (not louvered) | Service Panel (louvered) | Air Filter Media |
|----------------------|----------------------------|--------------------------|------------------|
| Air Cooled           | A39048-001                 | A33946-002               | A32975-001       |
| Water Cooled         | same                       | same                     | none             |
| Remote               | same                       | same                     | none             |
| Remote Low Side (RL) | same                       | same                     | none             |

**Prior Part Number Matrix**

|                      | Front panel (louvered) | Service Panel             | Air Filter Media |
|----------------------|------------------------|---------------------------|------------------|
| Air Cooled           | A33255-002             | A34038-002 (not louvered) | 02-2976-01       |
| Water Cooled         | same                   | A33946-002 (louvered)     | none             |
| Remote               | same                   | A33946-002 (louvered)     | none             |
| Remote Low Side (RL) | same                   | A33946-002 (louvered)     | none             |



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**Bulletin Number: PS - 6 - 2006**

**Bulletin Date: September 2006**

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# SERVICE BULLETIN

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## **Subject: Color and Model Series Change**

The color of certain plastic cabinet components, labels, emblems and doors is being changed to match the new Prodigy cuber color.

The date this change was implemented in production was August 21, 2006.

All models with a color change are designated with a series code of H at the end of the model number. Any model with a series code other than H is either not part of the color change or remains the prior color.

As the new and old colors are compatible, matching color service parts will not be available. Service parts will continue to be provided in the current color until they run out, then the new color will be supplied. The part numbers of the **affected components** will change, their current part numbers ending in -01 will be changed to a -31, and current part numbers ending in -02, will now end in -32. The -31 or -32 parts could be in either color.