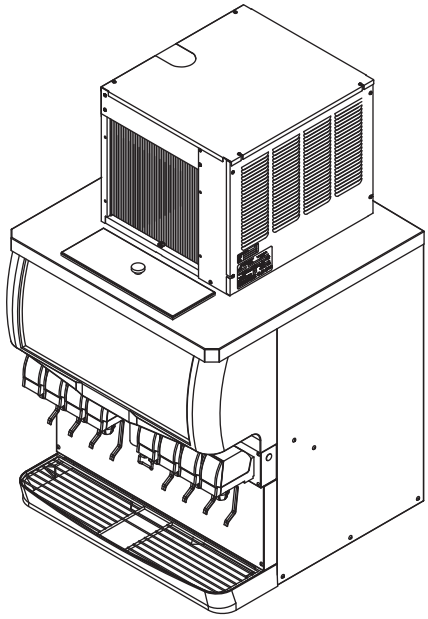
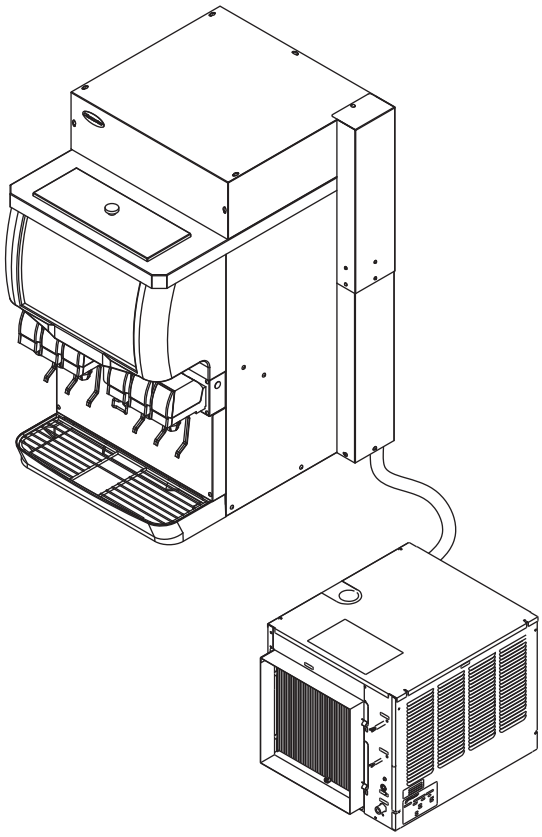
Follett Maestro™ Chewblet® 400 Series Ice Machine and Top Kit

for Remcor/Cornelius Countertop ice and beverage dispensers

Order parts online
www.follettice.com

Installation, Operation and Service Manual





Following installation, please forward this manual to the appropriate operations person.

FOLLETT
Innovative solutions, inspired by ice

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Toll free (877) 612-5086 • +1 (610) 252-7301
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00117259R05

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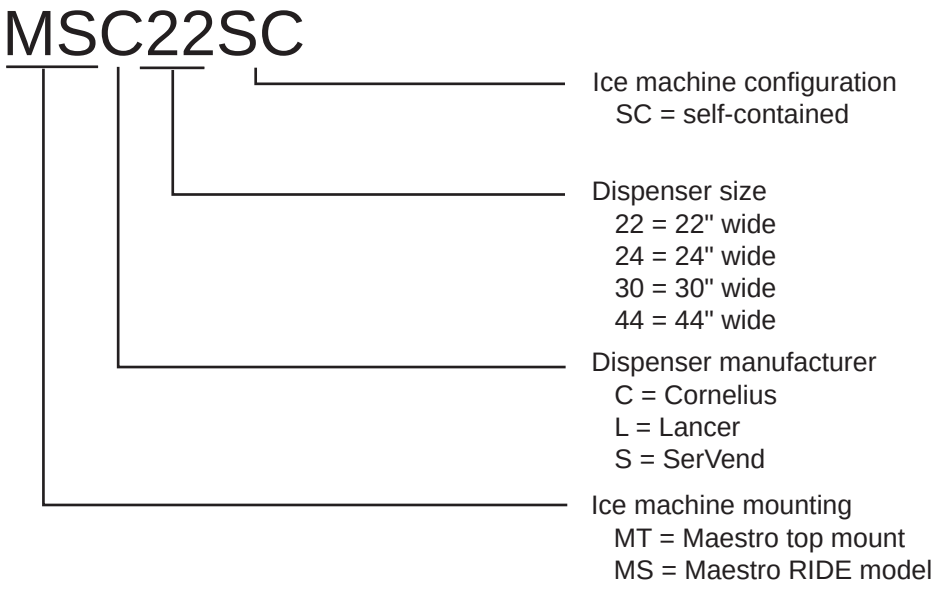
Welcome to Follett

Follett equipment enjoys a well-deserved reputation for excellent performance, long-term reliability and outstanding after-the-sale support. To ensure that this equipment delivers that same degree of service, we ask that you review the installation portion of this manual before beginning to install the unit. Our installation instructions are designed to help you achieve a trouble-free installation. Should you have any questions or require technical help at any point, please call our technical service group at (877) 612-5086 or (610) 252-7301.

Before you begin

After uncrating and removing all packing material, inspect the equipment for concealed shipping damage. If damage is found, notify the shipper immediately and contact Follett Corporation so that we can help in the filing of a claim, if necessary.

Check your paperwork to determine which model you have. Follett model numbers are designed to provide information about the type and capacity of Follett equipment. Following is an explanation of the different model numbers in the series.



Important cautions

Dispenser bin area contains mechanical, moving parts. Keep hands and arms clear of this area at all times. If access to this area is required, power to unit must be disconnected first.

Follett recommends a Follett water filter system (part# 00130229 for the 400 series) be installed in the ice machine inlet water line.

Ice is slippery. Maintain counters and floors around dispenser in a clean and ice-free condition.

Ice is food. Follow recommended cleaning instructions to maintain cleanliness of delivered ice.

Specifications

Electrical

Model number		Full load amps	Max. fuse size
MC400 series ice machine	115/60/1	11.0 amps	20 amps

Ambient specifications

Air temperature	+100 F/+38 C max.	+50 F/+10 C min. (best performance below +80 F/+27 C)
Water temperature	+90 F/+32 C max.	+40 F/+4 C min. (best performance below +70 F/+21 C)
Water pressure	70 P.S.I. max.(482kPA)	10 P.S.I min. (89kPA)

Plumbing

Your new ice machine is equipped with a drain line to simplify draining the evaporator and float reservoir. The tube labeled “float/evap drain” is for **SERVICE USE ONLY** and must **NOT** be connected to the ice machine drain.

Water line sizes	Make up water (inlet to float)	1/4" min.
	Condenser (water-cooled only)	3/8" min.
Drain line sizes	Ice machine drain	3/4" min.
	Condenser (water-cooled only)	3/8" min.
Slope to drain	1/4" per foot (6mm per 30.4cm run)	1/2" min.

- Water shut-off recommended within 10 feet (3m), drain to be hard-piped and insulated
- Separate drains for ice machine and condenser. To prevent back flow, do NOT connect drains.
- Follett recommends installation of a Follett water filter system (part# 00130229) in ice machine inlet water line

Field Wiring: countertop dispensers with RIDE™ remote ice delivery model ice machines

Consult enclosed D400A/W, R400A/W, MCD400A/W manual.

Dimensions and clearances

Required clearances – MCD400 series

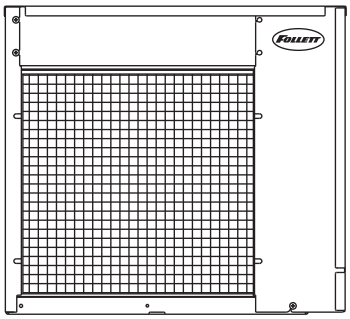
Entire front of ice machine clear of obstruction/connections to allow removal.

12" (305mm) above ice machine for service

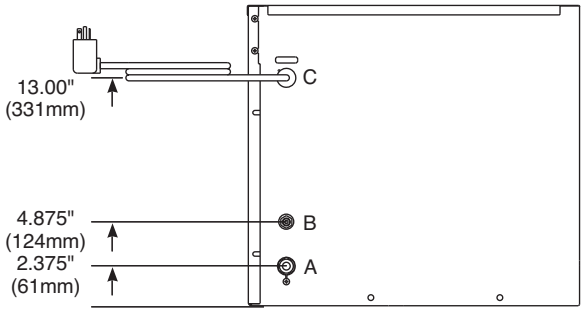
6" (153mm) minimum between louvered (exhaust) side of ice machine and any adjacent equipment.

MCD400AHS – 18" (457mm) minimum, 10 ft (3m) maximum between discharge and air intake grilles.

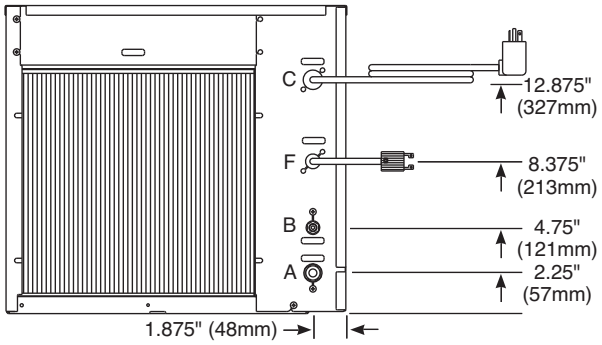
Front view — air-cooled top mount



Back view — air-cooled top mount

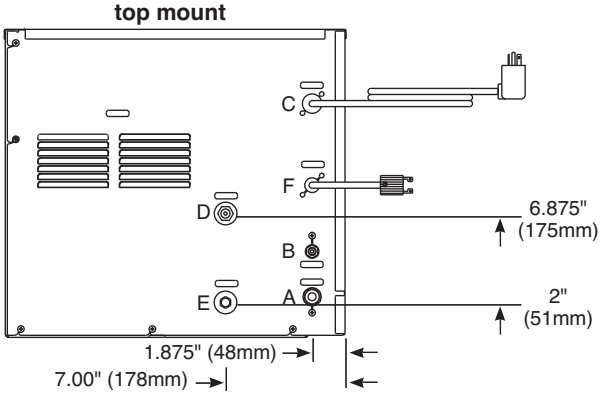


Front view — air-cooled RIDE model

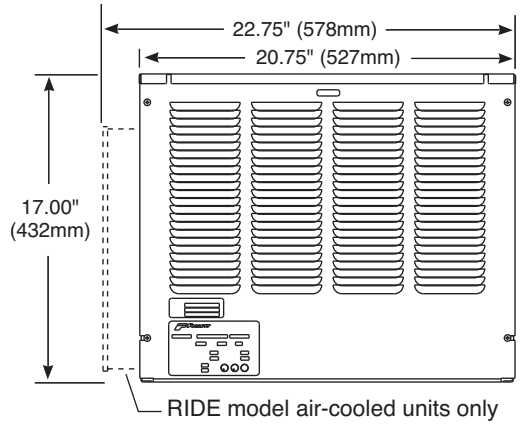


Front view — water-cooled RIDE model

Back view — water-cooled top mount



Side view — air-cooled and water-cooled top mount and RIDE model



Ice machine plug configuration NEMA 5-20

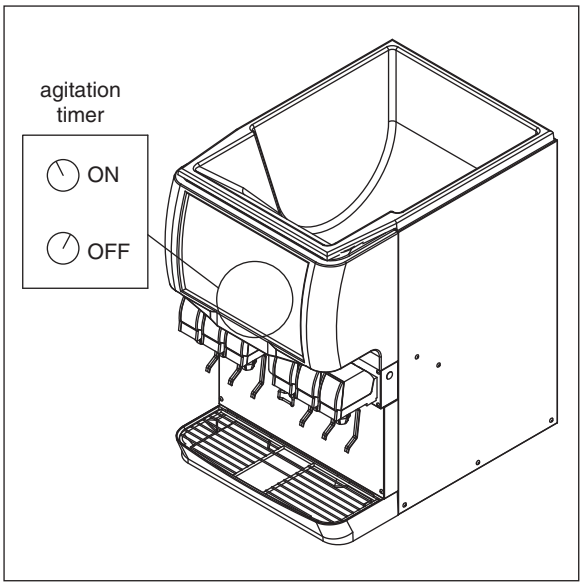
A – 3/4" MPT drain	**D** – 3/8" FPT condenser inlet
B – 3/8" OD push-in water inlet	**E** – 3/8" FPT condenser drain
C – Electrical cord	**F** – Bin signal cord

Installation

1. Install Cornelius ice dispenser according to manufacturer's specifications.

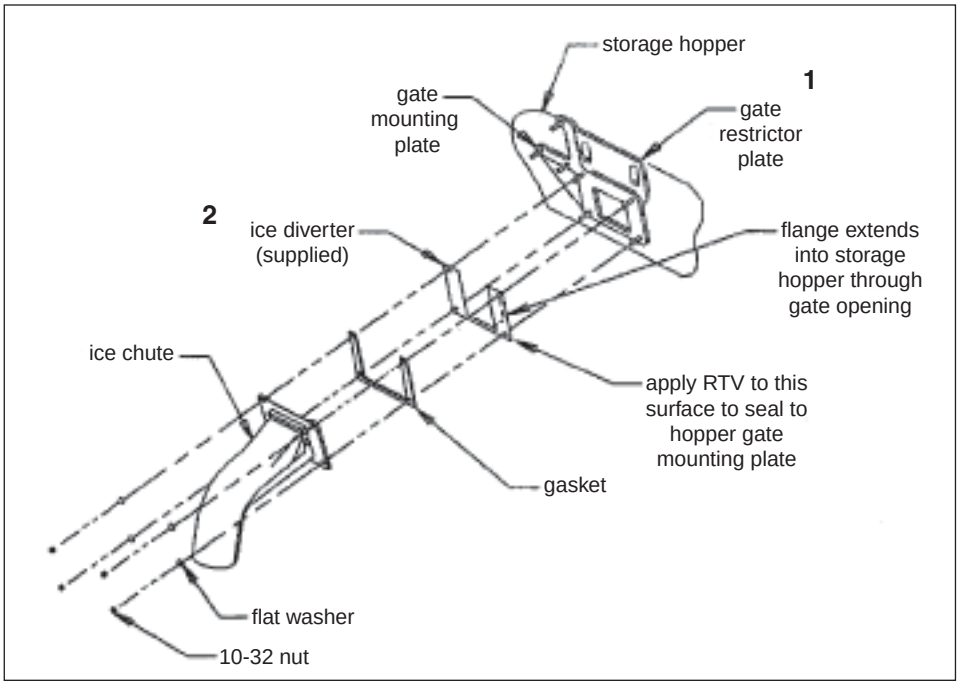
   Note: We recommend that the dispenser back be mounted at least 1" (26mm) from wall to allow water, drain and electric lines from top-mount ice machines to be concealed behind dispenser.
2. Disconnect power to dispenser.
3. Remove front panel/merchandiser from the dispenser.
4. Adjust the agitation timer located on Cornelius PC board
   to 1 second on – 1 hour off (Fig. 1).

Fig. 1



5. Install supplied nugget ice diverter at dispenser opening.
   a) Disassemble chute assembly and discard gate restrictor (Fig. 2.1).
   b) Reassemble with supplied ice diverter as shown (Fig. 2.2).
6. Reinstall front panel.

Fig. 2



7. Remove existing plastic top from dispenser and install supplied gasket around perimeter of dispenser top (Fig. 3).

   Note: Sanitize dispenser before proceeding.

Fig. 3

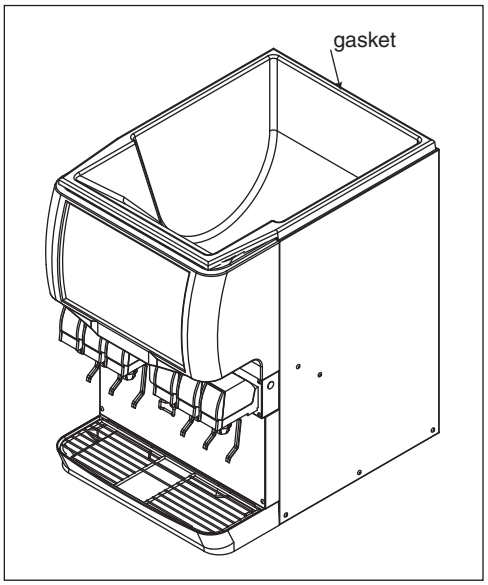
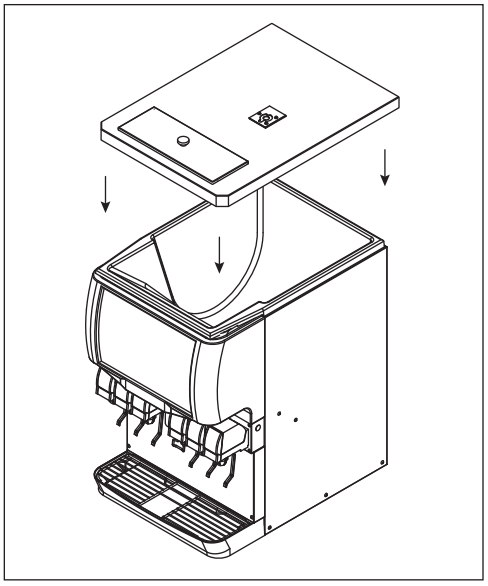


Fig. 4



8. Install supplied stainless steel top with access opening toward front of dispenser (Fig. 4).

For dispensers with top mounted ice machines

Proceed with steps 9 through 17.

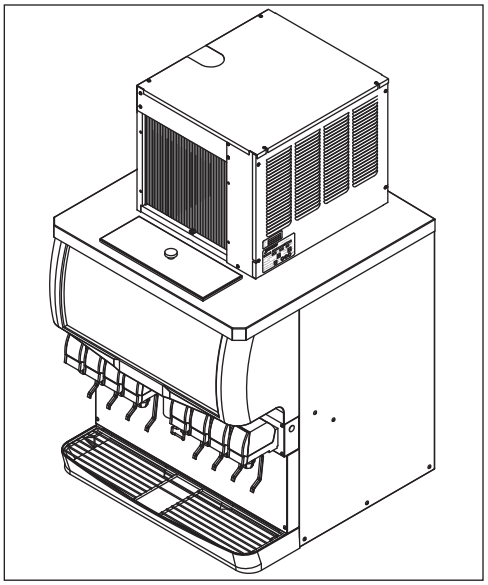
For dispensers with RIDE model ice machines

Go directly to step 18.

Top mounted ice machine installation

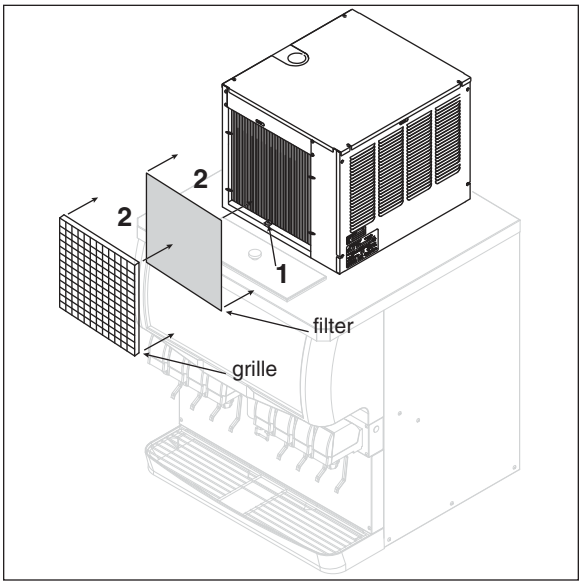
9. Position Follett MCD400AHT ice machine on perimeter gasket of stainless steel top. Ice machine should be oriented with A/C condenser facing front (Fig 5).

Fig. 5



10. Use pliers to compress and remove cage nut at front of condenser on ice machine base (Fig. 6.1).
11. Install filter and grille. Lock in place using four mounting screws (Fig. 6.2).

Fig. 6

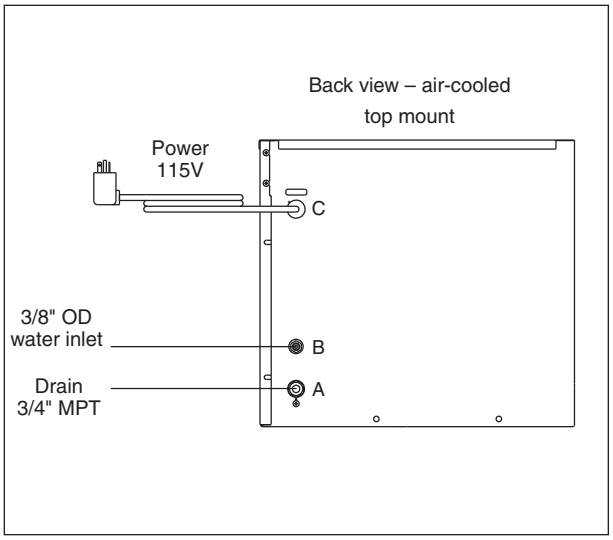


12. Make water, drain and electric connections to ice machine (Fig. 7).

    Note: Water connection accepts 3/8" OD copper or plastic tubing. Push tubing in until it stops. Use supplied 90˚ push-in water inlet fitting if there is not enough clearance behind ice machine to install water tubing without kinking tubing or putting stress on fitting.

    Note: Follett recommends the installation of a Follett water filter system (par# 00130229) on supply water inlet.

Fig. 7



13. Remove ice machine top panel and louvered side panel.
14. Insert ice transport tube to a 1/2" (13mm) depth through mounting bracket (Fig 8 and 9.1) and secure transport tube away from condenser fan under float reservoir bracket (Fig. 9.2).
15. Tighten clamp screw(s) on ice machine base securely (Fig. 9.3).
16. Uncoil capillary tube from bin thermostat and route through hole in gasket to mounting bracket and secure as shown (Fig. 8).
17. Reinstall ice machine louvered side panel and top panel.

GO TO STARTUP – STEP 27.

Fig. 8

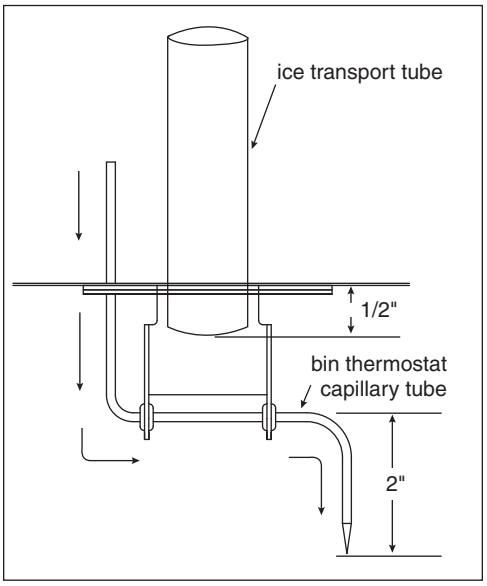
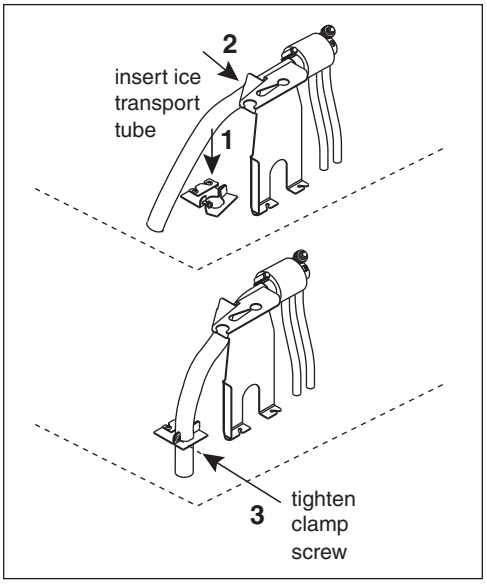


Fig. 9



RIDE model ice machine installation

18. Ice transport tube chase may be located behind or to either side of the dispenser (Fig. 10 and 11). Using the chase mounting bracket (Fig. 12) as a template mark the counter for the ice transport tube(s) in one of the locations shown in Fig. 10 and 11. Within the template outline drill one 2.25" (58mm) to 2.375" (61mm) hole for each ice transport tube. Secure the chase mounting bracket to the counter using supplied screws (Fig. 12).

	Dimension A	Dimension B
Single tube – Fig. 10		
22" (559mm) dispenser	11.00" (280mm)	8.00" (242mm)
24" (607mm) dispenser	12.00" (312mm)	9.00" (299mm)
30" (762mm) dispenser	15.00" (762mm)	12.00" (343mm)
Double tube – Fig. 11		
22" (559mm) dispenser	9.50" (242mm)	8.00" (204mm)
24" (607mm) dispenser	10.50" (273mm)	9.00" (242mm)
30" (762mm) dispenser	13.50" (343mm)	12.00" (305mm)
44" (1118mm) dispenser	20.50" (521mm)	19.00" (483mm)

Fig. 10 – Single ice tube dispensers

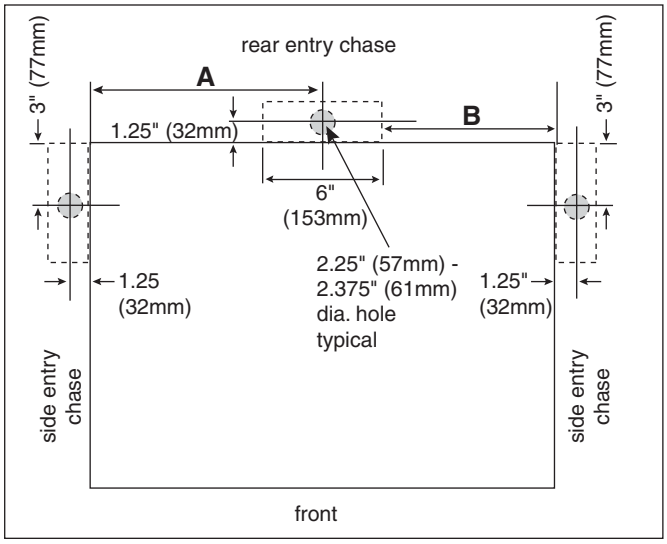


Fig. 11 – Double ice tube dispensers

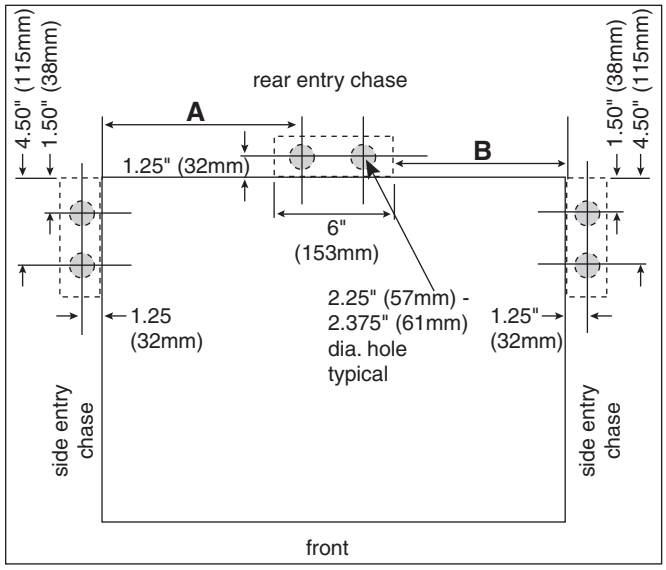
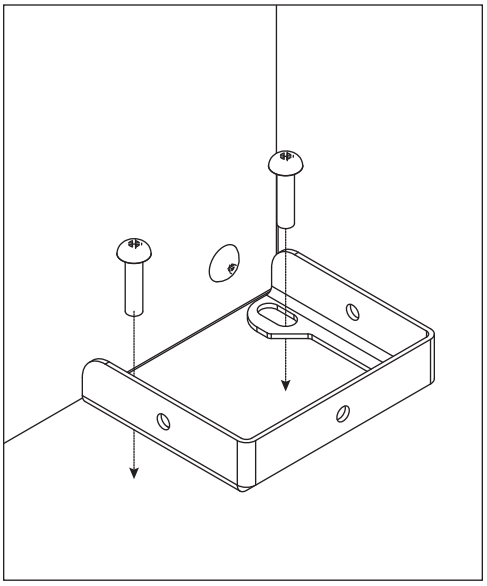
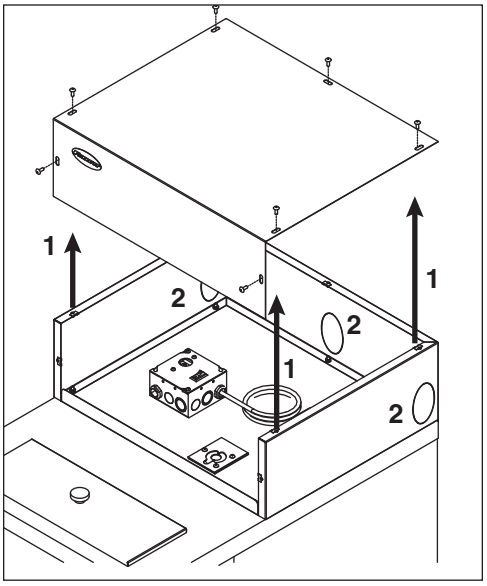


Fig. 12



19. Remove lid from dispenser top (Fig. 13.). Remove the knockout from the Harmony top (Fig. 13.2) corresponding to selected chase location. Line the edges of the opening with the supplied gasket material (Fig. 13.2).
20. Follow the “RIDE model ice machine installation procedure” found in the Symphony MCD400 Ice machine Manual 208600 to install your Follett ice machine.

Fig. 13



21. Route the bin signal cord from the 4" x 4" (102mm x 102mm) junction box through the top knockout (Fig. 13.1) and countertop hole. Attach the bin signal connector to the two lead plug on the ice machine.
22. Route the ice transport tube(s) from the ice machine(s) through counter cutout and knock out into dispenser top by following the same routing as the bin signal cord (Fig. 13.2).

23. Connect the ice transport tube(s) to the dispenser:
    a) Drill 3/16" (5mm) holes through both sides of the tube 1/2" (13mm) from the tube end.
    b) Collapse tube and insert through gasketed hole (Fig. 14.1).
    c) Match tube holes to bracket tabs.
24. Route bin thermostat capillary tube from the 4" x 4" (102mm x 102mm) junction box into bin alongside the ice transport tube. Secure capillary tube into bracket (Fig. 8).
25. Reinstall the dispenser cover with supplied screws (Fig. 14).
26. Install telescoping chase.
    a) Mount lower chase section to chase bracket on counter with supplied screws (Fig. 15.1).
    b) Position upper chase section over lower chase section. Align top of upper section to top of stainless dispenser top and secure with screw (Fig. 15.2).
    c) Drill pilot holes on both sides of chase and secure with supplied screws (Fig. 15.3).
27. Turn ice machine power and water on.
28. After ice machine has made ice for approximately 15 minutes complete the following start-up checks:
    a) Dispense ice.
    b) Hold ice on bin thermostat and make sure ice machine shuts off.
    c) Remove ice from bin thermostat and make sure ice machine restarts.

Note: Ice machine has a 20 minute restart delay.

Fig. 14

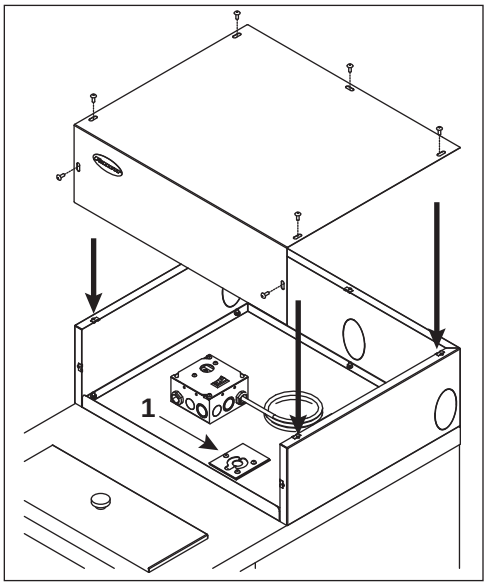
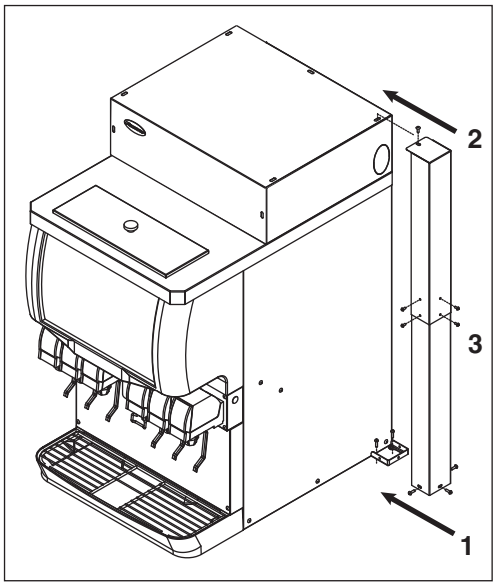


Fig. 15



Operation

Weekly exterior evaporator unit care

The exterior may be cleaned with a stainless cleaner such as 3M Stainless Steel Cleaner & Polish or equivalent.

Recommended semi-annual ice machine/evaporator unit cleaning (every 6 months)

Solution A – Sanitizing solution: Prepare 2 gallons (9L)

Combine 1 oz (250ml) bleach with 2 gal (8L) hot water or equivalent 5.25% sodium hypochlorite solution.

Solution B – Ice machine cleaner: Prepare one gallon (3.8L) of Follett SafeCLEAN™ Ice Machine Cleaner (one 7 oz packet) or equivalent. Solution temperature must be at least +120 F (+48.9 C).

Warning: Most ice machine cleaners contain citric or phosphoric acid that can cause skin irritation. Read caution label on product and follow instructions carefully.

1. Remove ice machine panels required to gain access to water reservoir components (Fig. 16) and electrical control box.
2. Locate ice machine electrical box and turn compressor switch off.
3. Dispense all ice from dispenser.
4. Shut off water to ice machine.
5. Drain water from reservoir through float/evaporator drain line (Fig. 16.3). Reinsert hose into hose clip (Fig. 16.1).
6. Fill reservoir (Fig. 16.2) with Solution B.
7. Restart ice machine and allow gearmotor to run with the compressor off for 15 minutes.
8. While waiting 15 minutes, follow steps 8a through 8c.
   a) Remove ice compression nozzles (Fig. 17.1). Soak in Solution B.
   b) Descale drain pans (Fig. 17.2) by grasping firmly and gently bending up and down. Vacuum residue out.
   c) Inspect all drain lines. Clean as necessary with Solution B.
9. Turn ice machine power off.
10. Drain Solution B through float/evaporator drain line (Fig. 16.3). Rinse evaporator by filling reservoir (Fig. 16.2) with potable water and draining evaporator through float/evaporator drain line (Fig. 16.3) three times. Reinsert hose into hose clip and plug into end of drain line (Fig. 16.1).
11. Connect ice transport tubes (Fig. 17.3) directly to evaporator outlet ports (without ice compression nozzle) (Fig. 17.4).
12. Fill reservoir (Fig. 16.2) with Solution A.
13. Turn ice machine power on (to allow gearmotor to run).
14. Wait 10 minutes. Turn compressor switch on.
15. Keep reservoir (Fig. 16.2) full of Solution A while making ice for 20 minutes.
16. Turn compressor switch off.

Fig. 16

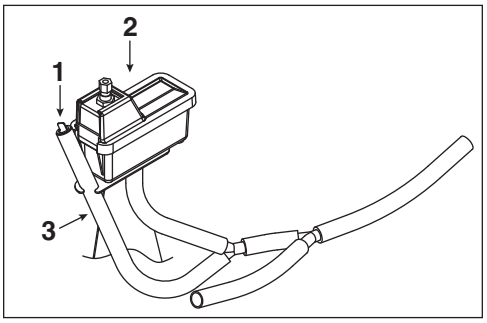
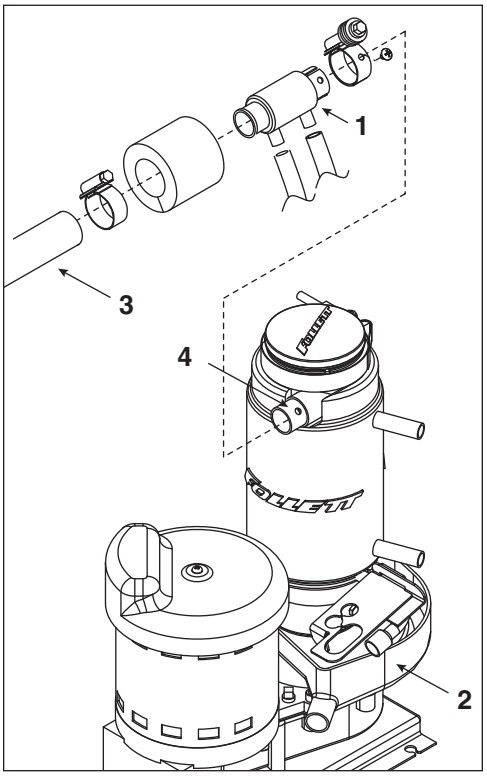


Fig. 17

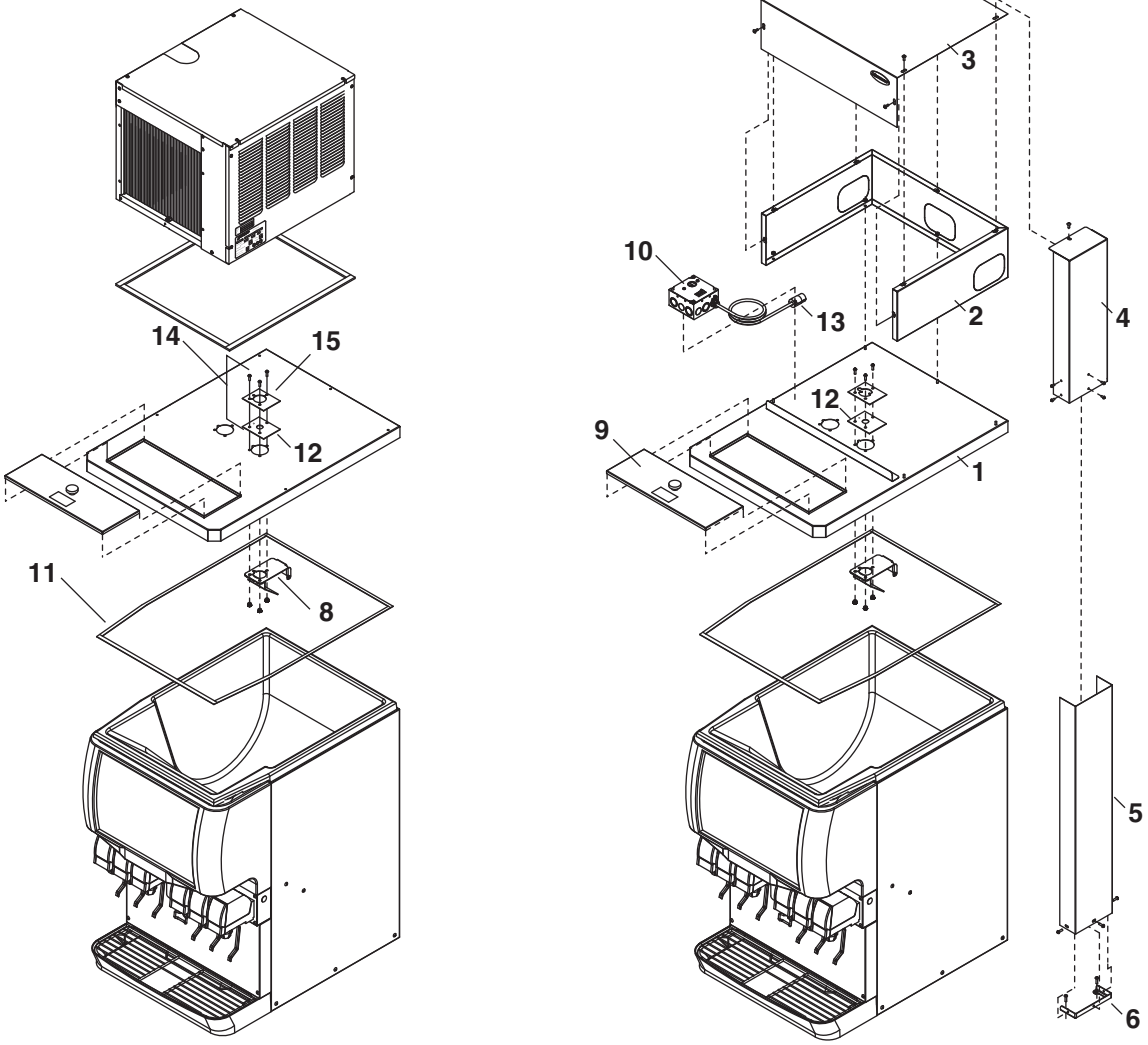


17. Rinse ice compression nozzles (Fig. 17.1) with water and reinstall.
18. Drain any remaining sanitizing solution from reservoir through float/evaporator drain line (Fig. 16.1).
19. Fill reservoir (Fig. 16.2) with +120 F (+49 C) water. Empty water through float/evaporator drain line (Fig. 16.1). Repeat 3 times.
20. Turn on water to ice machine.
21. Turn compressor switch on.
22. Replace reservoir cover and any panels removed to clean ice machine.
23. Make ice for 30 minutes. Dispense and discard all ice.

Service

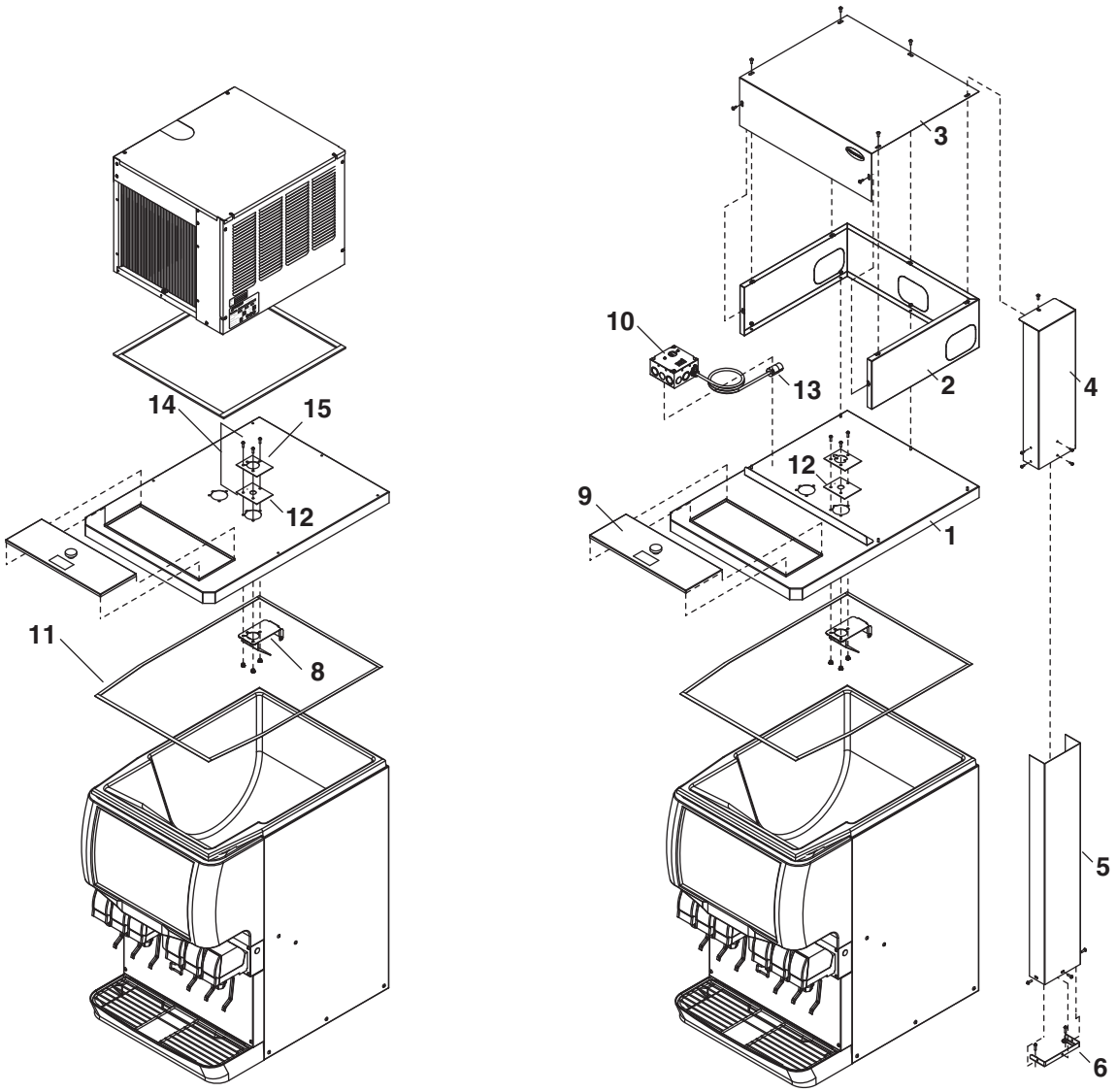
Replacement parts

Top kit models MTC22SC, MSC22SC



Reference #	Description	Part #
1	Base, top mount	00113506
1	Base, RIDE model	00113266
2	Cabinet	00113324
3	Cover	00113357
4	Chase, upper	00113381
5	Chase, lower	00113399
6	Collar	00113407
8	Deflector, single	501616
9	Lid, access	00113423
10	Box, thermostat	00113449
11	Gasket, top, Harmony	00113464
12	Gasket, ice entry	502824
13	Socket, bin signal	502334
14	Kit, ice entry, MCD400	00120279
15	Plate, ice tube mounting, MCD400	307071
Not shown	Thermostat, bin level	500514
Not shown	Diverter, ice	307277
Not shown	Plate, blank, ice entry	00113498

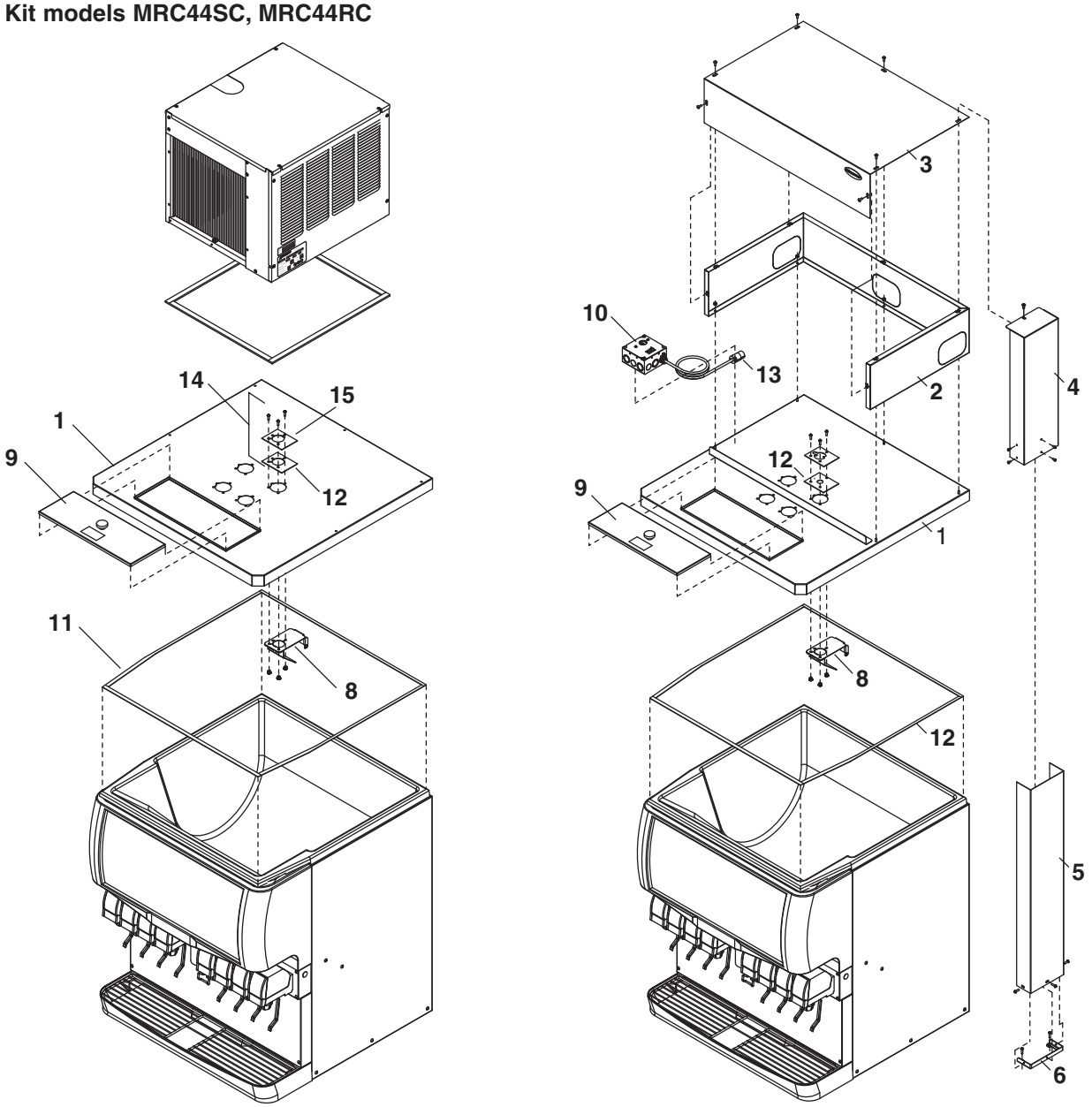
Top kit models MTC24SC, MSC24SC



Reference #	Description	Part #
1	Base, top mount	00119495
1	Base, RIDE model	00119487
2	Cabinet	00119503
3	Cover	00119511
4	Chase, upper	00113381
5	Chase, lower	00113399
6	Collar	00113407
8	Deflector, single	501616
9	Lid, access	00113423
10	Box, thermostat	00113449
11	Gasket, top, Harmony	00113464
12	Gasket, ice entry	502824
13	Socket, bin signal	502334
14	Kit, ice entry, MCD400	00120279
15	Plate, ice tube mounting, MCD400	307071
Not shown	Thermostat, bin level	500514
Not shown	Diverter, ice	307277
Not shown	Plate, blank, ice entry	00113498

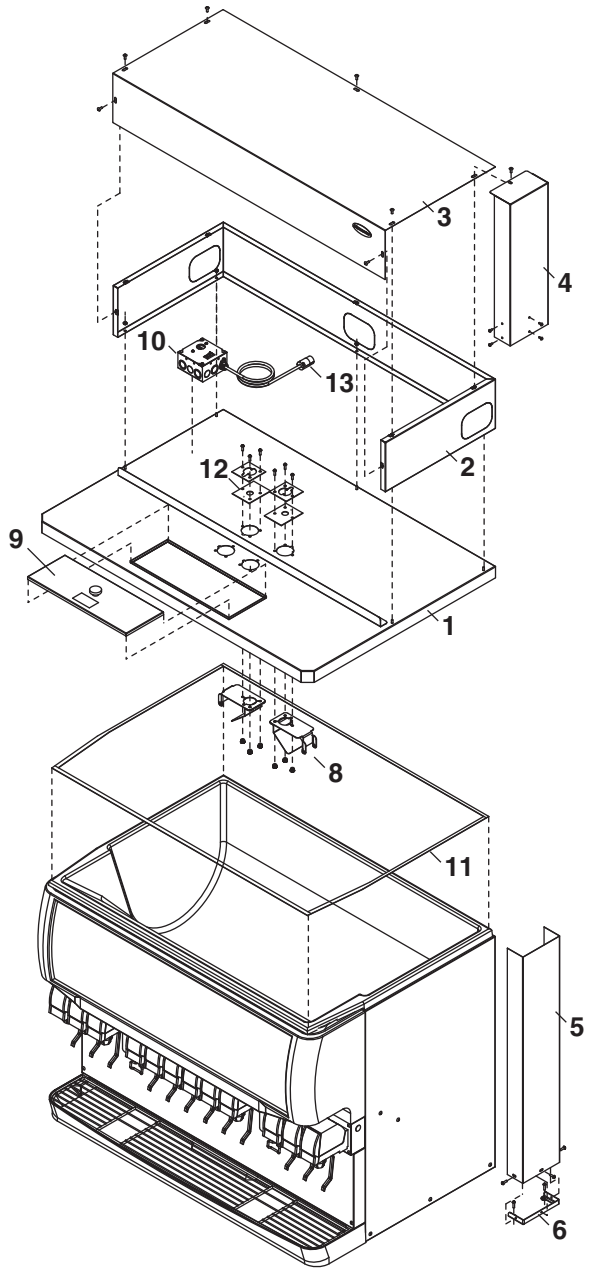
Top kit models MTC30SC, MSC30SC

Top Kit models MRC44SC, MRC44RC



Reference #	Description	Part #
1	Base, top mount	00113282
1	Base, RIDE model	00113274
2	Cabinet	00113332
3	Cover	00113365
4	Chase, upper	00113381
5	Chase, lower	00113399
6	Collar	00113407
8	Deflector, single	501616
9	Lid, access	00113423
10	Box, thermostat	00113449
11	Gasket, top, Harmony	00113464
12	Gasket, ice entry	502824
13	Socket, bin signal	502334
14	Kit, ice entry, MCD400	00120279
15	Plate, ice tube mounting, MCD400	307071
Not shown	Thermostat, bin level	500514
Not shown	Diverter, ice	307277
Not shown	Plate, blank, ice entry	00113498

Top Kit models MSC44SC



Reference #	Description	Part #
1	Base, RIDE model	00113290
2	Cabinet	00113340
3	Cover	00113373
4	Chase, upper	00113381
5	Chase, lower	00113399
6	Collar	00113407
8	Deflector, single	501616
9	Lid, access	00113423
10	Box, thermostat	00113449
11	Gasket, top, Harmony	00113464
12	Gasket, ice entry	502824
13	Socket, bin signal	502334
Not shown	Thermostat, bin level	500514
Not shown	Diverter, ice	307277
Not shown	Plate, blank, ice entry	00113498

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