



Crathco®

Operator Manual

Simplicity™ Bubbler Crathco® Cold Beverage Dispensers

Activate your warranty now at
<http://gmcw.com/warranty-registration>



Model CS-2E-16



Model CS-3L-16



Model CS-2D-16



(cULus certification applies only to
United States and Canada models.)

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Thank you for purchasing this quality cold beverage dispenser. For your safety and the safety of others, read all warnings and the operator's manual before installing or using the product. Properly instruct all operators. Keep training records. For future reference, record serial number here:

Grindmaster-Cecilware

4003 Collins Lane, Louisville, KY 40245 USA
Phone: 502.425.4776 Toll Free: 800.695.4500
Fax: 502.425.4664
Web: gmcw.com Email: info@gmcw.com

Grindmaster-Cecilware provides the industry's
BEST warranty. Visit gmcw.com for warranty
terms and conditions.



**Grindmaster
Cecilware**

0617 Form # CC-330-04
Part # 390-00003

Safety Information

Important Safety Information



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

For your safety and the safety of others, read all warnings and the operator manual before installing or using the product.

DANGER: This term warns the user of imminent hazard that will result in serious injury or death.

WARNING: This term refers to a potential hazard or unsafe practice, which could result in serious injury or death.

CAUTION: This term refers to a potential hazard or unsafe practice, which could result in minor or moderate injury.

NOTICE: This term refers to information that needs special attention or must be fully understood.

WARNING/ AVERTISSEMENT/ ADVERTENCIA

The appliance is not intended for outdoor use.

Do not clean with a water jet or use in an area where a water jet may be used.

Cleaning and maintenance shall be made only by properly trained persons with supervision.

CAUTION/ ATTENTION/ ATENCIÓN

Lifting hazard. Single person lift could cause injury. Use assistance when moving or lifting.

Sharp edges can cause personal injury. Handle with care.

The appliance is not to be used by persons (including children 8 years and above) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. Be sure to provide supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children must be supervised to ensure they do not play with the appliance.

For safe and proper operation the appliance has to be placed in a stable horizontal position.

The appliance is only to be installed in locations where it can be overseen by trained personnel.

NOTICE/ AVIS/ AVISO

Observe machine voltage configuration. Do not apply improper voltage to machine or damage to machine will occur.

Do not use extension cord.

Do not operate the appliance below 1.7°C (35°F) or above 40°C (104°F).

Clean and sanitize unit before first use.

Specifications

Northern America

Model	Description	Dimensions (H x W x D)	Electrical	Certifications
CS-2E-16	(2) 2.4 gallon (9L) bowls, agitator model.	27.5" x 10.5" x 17.75"	120V / 60 Hz / 3.6A	C-UL US, NSF
CS-2E-16-S	(2) 2.4 gallon (9L) bowls, spray model.	27.5" x 10.5" x 17.75"	120V / 60 Hz / 3.6A	C-UL US, NSF
CS-4E-16	(4) 2.4 gallon (9L) bowls, agitator model.	27.5" x 20.5" x 17.75"	120V / 60 Hz / 8.5A	C-UL US, NSF
CS-4E-16-S	(4) 2.4 gallon (9L) bowls, spray model.	27.5" x 20.5" x 17.75"	120V / 60 Hz / 8.5A	C-UL US, NSF
CS-1D-16	(1) 4.75 gallon (18L) bowl, agitator model.	27.5" x 10.5" x 17.75"	120V / 60 Hz / 3.6A	C-UL US, NSF
CS-1D-16-S	(1) 4.75 gallon (18L) bowl, spray model.	27.5" x 10.5" x 17.75"	120V / 60 Hz / 3.6A	C-UL US, NSF
CS-2D-16	(2) 4.75 gallon (18L) bowls, agitator model.	27.5" x 20.5" x 17.75"	120V / 60 Hz / 8.5A	C-UL US, NSF
CS-2D-16-S	(2) 4.75 gallon (18L) bowls, spray model.	27.5" x 20.5" x 17.75"	120V / 60 Hz / 8.5A	C-UL US, NSF
CS-3D-16	(1) 4.75 gallon (18L) bowl, (2) 2.4 gallon (9L) bowls, agitator model.	27.5" x 20.5" x 17.75"	120V / 60 Hz / 8.5A	C-UL US, NSF
CS-3D-16-S	(1) 4.75 gallon (18L) bowl, (2) 2.4 gallon (9L) bowls, spray model.	27.5" x 20.5" x 17.75"	120V / 60 Hz / 8.5A	C-UL US, NSF
CS-3L-16	(3) 4.75 gallon (18L) bowls, agitator model.	31.3" x 20.5" x 17.75"	120V / 60 Hz / 8.5A	C-UL US, NSF
CS-3L-16-S	(3) 4.75 gallon (18L) bowls, spray model.	31.3" x 20.5" x 17.75"	120V / 60 Hz / 8.5A	C-UL US, NSF

Export

Model	Description	Dimensions (H x W x D)	Electrical	Certifications/ Declarations
CS-2E-10	(2) 2.4 gallon (9L) bowls, agitator model.	27.5" x 10.5" x 17.75" 70 cm x 27 cm x 45 cm	100V / 50/60 HZ / 3.6A	NSF
CS-2E-10-S	(2) 2.4 gallon (9L) bowls, spray model.	27.5" x 10.5" x 17.75" 70 cm x 27 cm x 45 cm	100V / 50/60 HZ / 3.6A	NSF
CS-2E-22	(2) 2.4 gallon (9L) bowls, agitator model.	27.5" x 10.5" x 17.75" 70 cm x 27 cm x 45 cm	230V / 50/60 HZ / 1.5A	NSF, CE
CS-2E-22-S	(2) 2.4 gallon (9L) bowls, spray model.	27.5" x 10.5" x 17.75" 70 cm x 27 cm x 45 cm	230V / 50/60 HZ / 1.5A	NSF, CE
CS-4E-22	(4) 2.4 gallon (9L) bowls, agitator model.	27.5" x 20.5" x 17.75" 65 cm x 52 cm x 45 cm	230V / 50/60 HZ / 4A	NSF, CE
CS-4E-22-S	(4) 2.4 gallon (9L) bowls, spray model.	27.5" x 20.5" x 17.75" 70 cm x 52 cm x 45 cm	230V / 50/60 HZ / 4A	NSF, CE
CS-1D-22	(1) 4.75 gallon (18L) bowl, agitator model.	27.5" x 10.5" x 17.75" 70 cm x 27 cm x 45 cm	230V / 50/60 HZ / 1.5A	NSF, CE
CS-1D-22-S	(1) 4.75 gallon (18L) bowl, spray model.	27.5" x 10.5" x 17.75" 70 cm x 27 cm x 45 cm	230V / 50/60 HZ / 1.5A	NSF, CE
CS-2D-22	(2) 4.75 gallon (18L) bowls, agitator model.	27.5" x 20.5" x 17.75" 70 cm x 52 cm x 45 cm	230V / 50/60 HZ / 4A	NSF, CE
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CS-3D-22	(1) 4.75 gallon (18L) bowl, (2) 2.4 gallon (9L) bowls, agitator model.	27.5" x 20.5" x 17.75" 70 cm x 52 cm x 45 cm	230V / 50/60 HZ / 4A	NSF, CE
CS-3D-22-S	(1) 4.75 gallon (18L) bowl, (2) 2.4 gallon (9L) bowls, spray model.	27.5" x 20.5" x 17.75" 70 cm x 52 cm x 45 cm	230V / 50/60 HZ / 4A	NSF, CE
CS-3L-22	(3) 4.75 gallon (18L) bowls, agitator model.	31.3" x 20.5" x 17.75" 80 cm x 52 cm x 45 cm	230V / 50/60 HZ / 4A	NSF, CE
CS-3L-22-S	(3) 4.75 gallon (18L) bowls, spray model.	31.3" x 20.5" x 17.75" 80 cm x 52 cm x 45 cm	230V / 50/60 HZ / 4A	NSF, CE

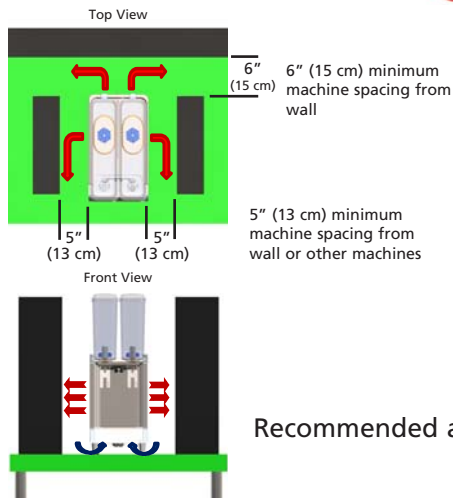
Installation and Set-Up

1. Place machine on counter with proper spacing.
 - The appliance must be placed in a horizontal position.
 - The appliance is suitable for indoor use only.

- a.  Place dispenser on stable counter strong enough to support its weight.



- b.  Allow 5" (13 cm) on sides and 6" (15 cm) on back for proper ventilation.



- c.  Position machine away from heat emitting objects (i.e. ovens, grills, refrigeration equipment).



Recommended ambient temperature 75° F (25° C).

2. Install power cord.

- a. Note proper voltage.



Observe machine voltage configuration. Do not apply improper voltage to machine or damage to machine will occur.

- b. Plug cord into power outlet.



Do not use extension cord.

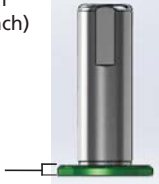
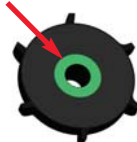
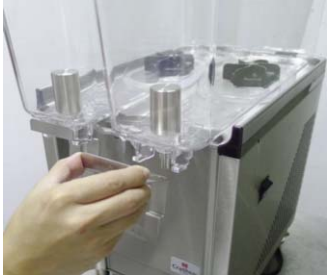
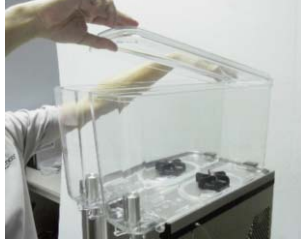


Failure to follow proper installation guidelines can damage equipment and void warranty.

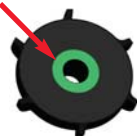
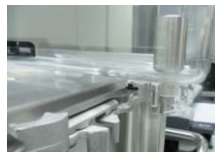
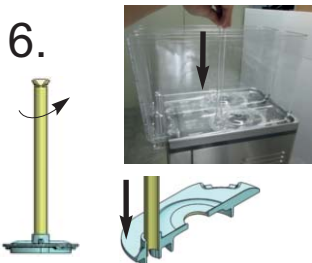
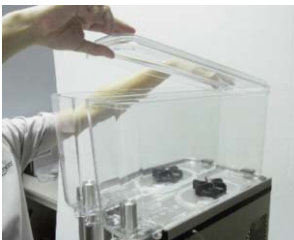
CAUTION/ ATTENTION/ ATENCIÓN

1. This appliance is not intended for the use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by person responsible for their safety.
2. Children should be supervised to ensure that they do not play with the appliance.
3. This appliance is only to be installed in locations where it can be overseen by trained personnel.

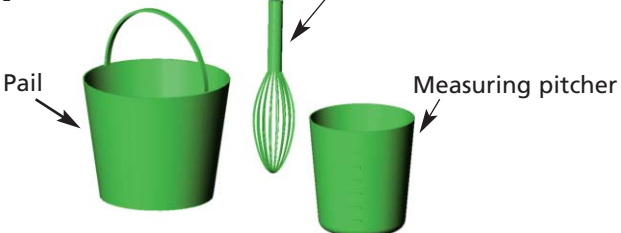
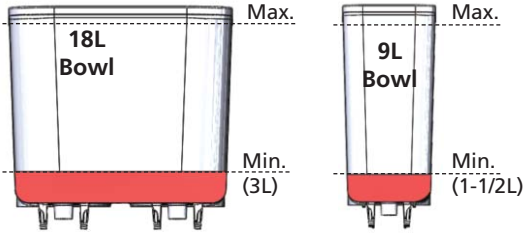
Installation - Agitator Function (Model CS-XX-YY)

1.  Install mixing impeller.	2.  Install bowl gasket.	⚠ CAUTION/ ATENCIÓN/ ATTENTION Sharp edges can cause personal injury. Handle with care. Replace axle if flange thickness is less than 0.75mm (0.03 inch) thick.  Replace impeller if bearing surface is worn more than 0.5mm (0.02 inch).  Inspect for wear.
3.  a. b. Place o-ring on dispense valve (check if nicked or twisted). Place in bowl.	4.  Install assembled bowl. NOTICE/ AVIS/ AVISO: Machine must be OFF.	 Insert bowl lip underneath of lock position on the back of top tray.  Then, press down on the front of the bowl until you hear a click indicating the bowl is locked properly in place.
5.  Install handle.	6.  Flip out support bracket for drip tray.	7.  Place drip tray cover on drip tray.  Install drip tray.
8.  a. b. Mix product in clean container. Fill bowl with product.	9.  Install bowl cover.	10.   Turn power "on".

Installation - Spray Function (Model CS-XX-YY-S)

1.  Install mixing impeller.	2.  Install bowl gasket.	⚠ CAUTION/ ATENCIÓN/ ATTENTION Sharp edges can cause personal injury. Handle with care. Replace axle if flange thickness is less than 0.75mm (0.03 inch) thick.  Inspect for wear. Replace impeller if bearing surface is worn more than 0.5mm (0.02 inch). 	
3.  Install pump cover.	4. a.  b.  Place o-ring on dispense valve (check if nicked or twisted). Place in bowl.	5.  Insert bowl lip underneath of lock position on the back of top tray.  Install assembled bowl. NOTICE/ AVIS/ AVISO: Machine must be OFF. Then, press down on the front of the bowl until you hear a click indicating the bowl is locked properly in place.	
6.  Install spray tube to fit with Pump cover.	7.  Install handle.	8.  Flip out support bracket for drip tray.	9.  Install drip tray and cover.
10. a.  b.  Mix product in clean container. Fill bowl with product.	11.  Install bowl cover.	12.  Turn power "on". 	

Product Preparation & Use

1.  Wash hands thoroughly when handling dispenser and product. 	2. Mixing tools. Wire whisk  Pail Measuring pitcher Use only clean mixing tools to prepare product.
3.  To ensure safe and quality beverage, use only reliable, purified, or potable water source to prepare the product.	4.  Prepare concentrate by mixing powder with water using wire whisk until completely dissolved. Follow recommended dilution per product label.
5.  Pour concentrate into dispenser and then add remaining water per product label.	6.  Install lid. Turn on main power switch.
7.  Correct way to dispense. Incorrect way to dispense.	8.  18L Bowl 9L Bowl Max. Min. (3L) Min. (1-1/2L) Always observe minimum 3 liter (18L bowl) or 1-1/2 liter (9L bowl) fill level to prevent foaming of product at low level.
9. PRODUCT PREPARATION AND USE 1. Prepare concentrate by mixing powder with water using wire whisk until completely dissolved. Follow recommended dilution per product label. 2. Pour concentrate into dispenser and then add remaining water per product label. 3. Install lid and turn on main power switch. 4. 25~30° C (77~86° F) ambient temperature is suitable for the operation. 5. This machine maintains beverage temperature of 1~5° C (34~41° F). 6. The dispenser is not for dispensing potentially hazardous beverage.	

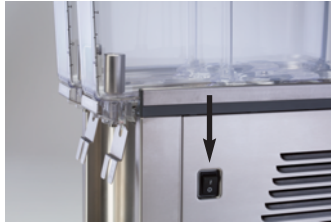
Daily Cleaning

Machine Disassembly

DAILY						
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



1.



Turn power "off".

2.



Remove drip tray and cover.

3.



Rotate support brackets for drip tray.

4.



Drain bowl.

5.



Remove handle.

6.

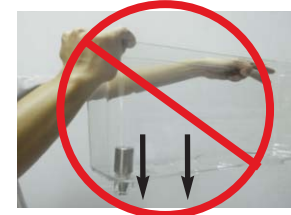


Remove bowl cover.



Press release latch on front of the machine before removing the bowl.

NOTICE/ AVIS/ AVISO: FRAGILE!



Do not drop.

7.



Remove valve with seal.

8.



Remove bowl gasket.

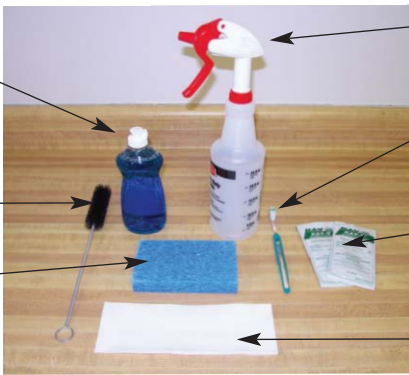
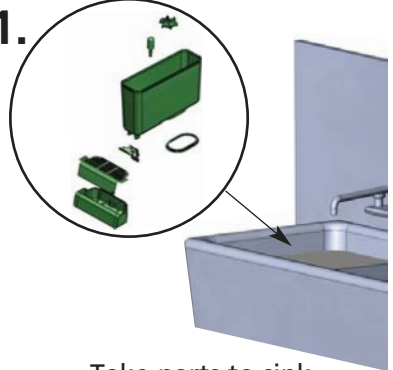
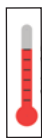
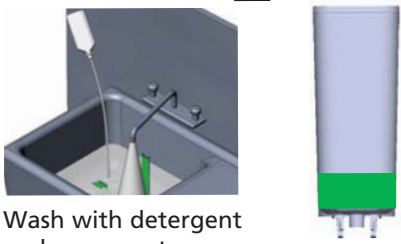
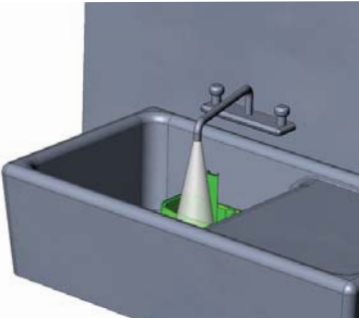
9.



Remove mixing impeller.

Daily Cleaning (cont.)

Cleaning Procedures

Cleaning Materials & Tools	
liquid detergent (do not use laundry bar/ powdered detergents) long brush foam/sponge (do not use abrasive)	 sprayer toothbrush sanitizer (chlorine based) paper towels
1.  Take parts to sink.	
2.  Units with spray agitators: Remove pump cover and spray tube.	3. a.  Lift out dispense valve and remove o-ring. b. 
4. 50°C (122°F) Maximum water temperature for cleaning.  75mm (3 inch) Maximum water level for cleaning.  Wash with detergent and warm water.	
5.  Rinse with clean water.	6.   Wipe evaporator plate with detergent and warm water.
7.   Clean front panel, exterior panels and release latch.	
8.  Clean counter and bottom part of dispenser with paper towel.	9. THOROUGHLY CLEAN ALL PARTS IN WARM WATER USING A MILD NON-ABRASIVE DETERGENT AND RINSE THOROUGHLY. NOTICE/ AVIS/ AVISO: ABRASIVES WILL SCRATCH PLASTIC PARTS. WASH BOWL LIDS IN COOL OR LUKEWARM WATER TO AVOID LEAKS DUE TO SEALED SURFACE BEING DAMAGED. NOTICE/ AVIS/ AVISO: The appliance is not suitable for installation in an area where a water jet could be used. The appliance must not be cleaned by water jet.

Daily Cleaning (cont.)

Daily Sanitizing

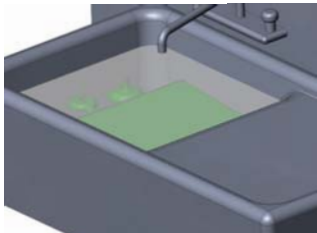
DAILY						
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

1.



Prepare 8L of chlorine-based sanitizing solution (to 100 ppm) per package instructions.

2.



Submerge parts in solution for 15 minutes.

3.



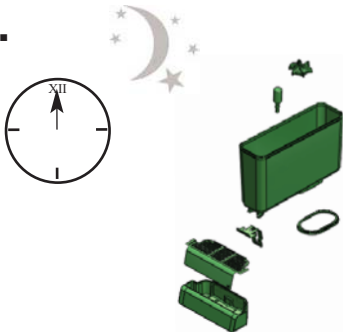
Spray inside of bowl with sanitizer.

4.



Spray inside of lid with sanitizer.

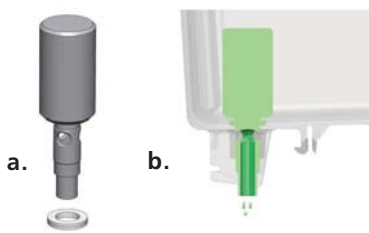
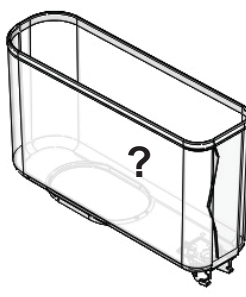
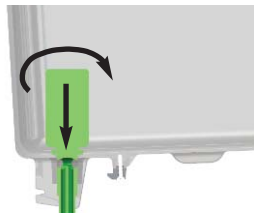
5.



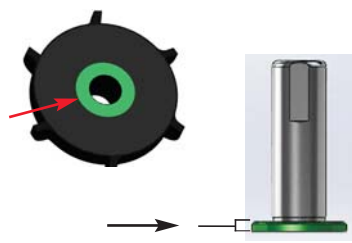
Air dry parts overnight.

Troubleshooting

Leaking

1.  a. O-ring nicked, deformed, or twisted? b. Foreign particles on bowl valve seat?	2.  Cracked bowl? Replace bowl.	3.  Drain tray overflow? Empty tray.
4.  Valve securely in place? Push and twist to seat.	5.  Gasket secured in place? Push to seat.	

No product agitation

1.  Replace impeller if bearing surface is worn. Replace pump axle if flange thickness is less than .75mm (0.03 inch) thick. Impeller and/or axle worn? Replace worn parts. See routine maintenance.	2.  Pump motor magnet needs adjustment? ☎ Call for service.
3.  Impeller installed correctly?	

Troubleshooting (cont.)

No refrigeration

1.  Plugged in to wall outlet?	2.  Power switch on?
3. Compressor does not operate; fan does? ☎ Call for service. 	4. Faulty thermostat? Machine will not operate. ☎ Call for service. 

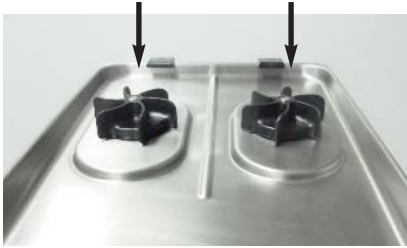
Poor refrigeration

1. Dirty condenser filter and condenser? Clean condenser or ☎ call for service.	
2. No product agitation? See previous page. 	3. Impeller does not spin. Faulty pump motor? ☎ Call for service. 
4. Compressor does not operate; fan does not operate. Faulty fan motor? ☎ Call for service. 	5. Faulty thermostat or improper setting? ☎ Call for service. 

Troubleshooting (cont.)

Noisy machine

1.



Impeller installed correctly in bowl?

2.



Bowl or pump installed while unit in "on" position?
Turn unit off. Reinstall parts.

3. Faulty pump motor bearings.
☎ Call for service.

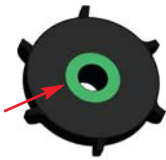


Chattering impeller? Ensure
correct drive magnet height or
☎ Call for service.



4.

Replace
impeller if
bearing
surface is
worn.



Replace pump
axle if flange
thickness is
less than
.75mm
(0.03 inch)
thick.

Impeller and/or axle worn? Replace worn parts.
See routine maintenance.

5.



Broken impeller? Replace it.

6.

Fan blade bent?
Unplug unit, remove side panel, inspect fan blade.

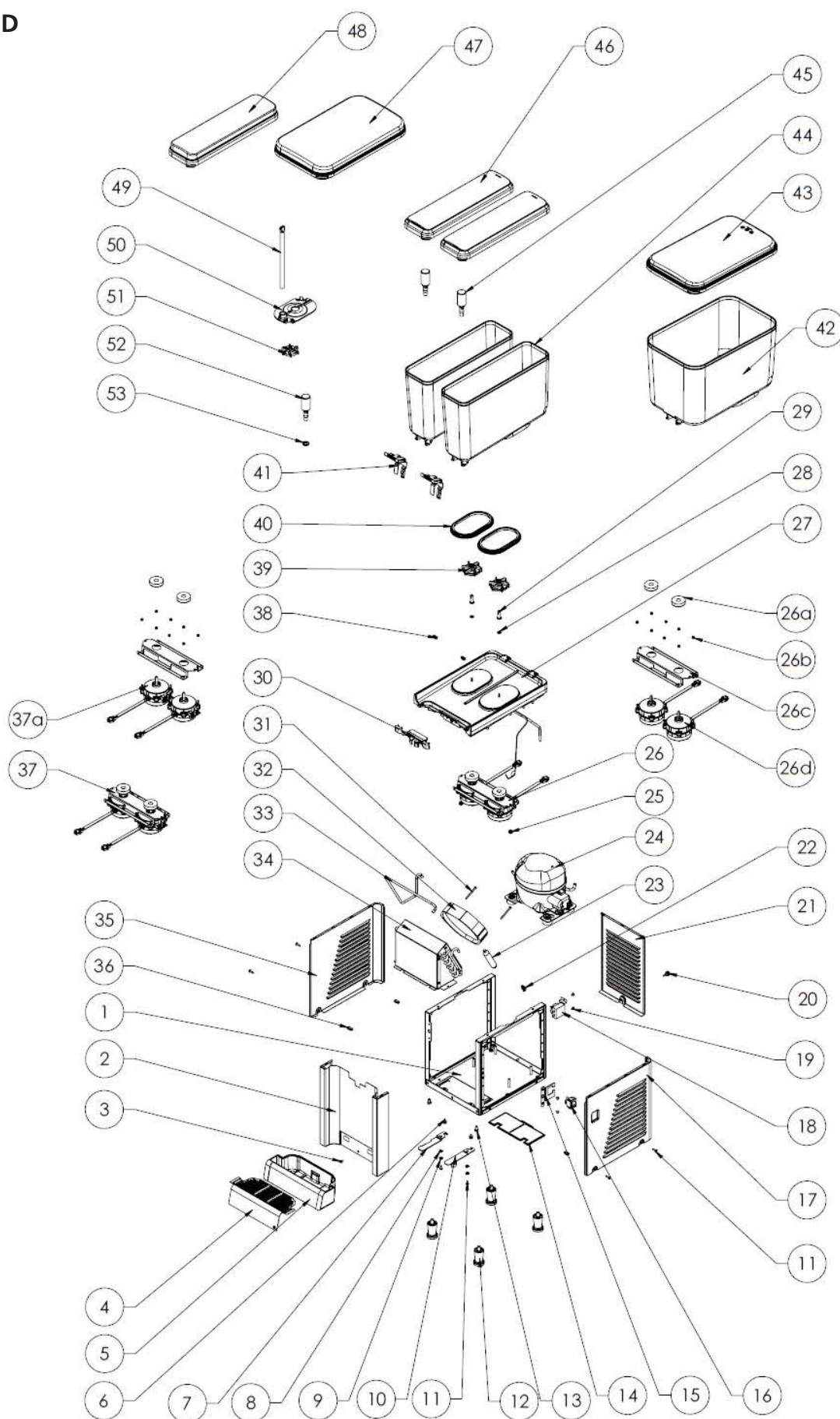


7. MAINTENANCE

1. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified persons in order to avoid a hazard.
2. When freezing occurs, the appliance must be powered off.
3. Access to the service area is restricted to persons having knowledge and practical experience of the appliance, in particular as far as safety and hygiene are concerned.

Basic Machine Parts

CS-2E, CS-1D



Basic Machine Parts (continued)

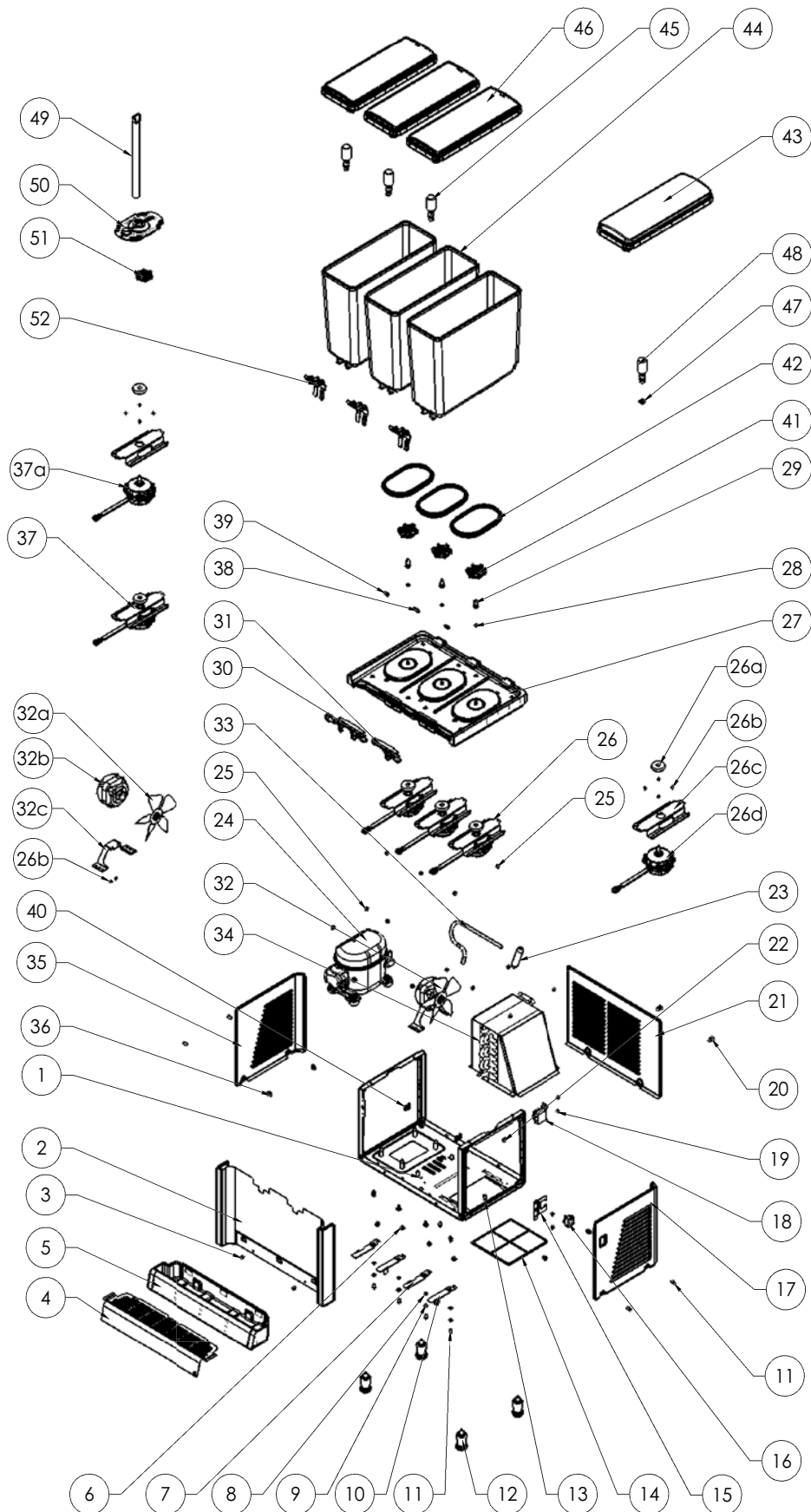
Parts List

Simplicity Mini Twin (CS-1D / CS-2E)

Item	Description	CS-2E-16	CS-1D-16	CS-2E-10	CS-1D-10	CS-2E-22	CS-1D-22
BASE ASSEMBLY PARTS							
1	Base Structure, Mini Twin	200-00048	200-00048	200-00048	200-00048	200-00048	200-00048
2	Front Panel assembly with magnet, Mini Twin	231-00006	231-00006	231-00006	231-00006	231-00006	231-00006
3	Screw Truss Head SS. (Mat. 420) 8-32 x 1/2"	0069	0069	0069	0069	0069	0069
6	Screw, Support Drip Tray Bracket	220-00013	220-00013	220-00013	220-00013	220-00013	220-00013
7	Bracket, Support Drip Tray Lt.	200-00053	200-00053	200-00053	200-00053	200-00053	200-00053
8	Washer, Spring DIN 137B	99299	99299	99299	99299	99299	99299
9	Sleeve, Bracket Support Drip Tray	210-00119	210-00119	210-00119	210-00119	210-00119	210-00119
10	Bracket, Support Drip Tray Rt.	200-00052	200-00052	200-00052	200-00052	200-00052	200-00052
11	Screw, TPH M4x1.5 Plastite SS	99306	99306	99306	99306	99306	99306
12	Leg, 2" Adjustable W/Rubber Pad	220-00021	220-00021	220-00021	220-00021	220-00021	220-00021
12	Leg, 4" Adjustable W/Rubber Pad (Set of 4)	M005SA	M005SA	M005SA	M005SA	M005SA	M005SA
13	Screw, 14 x 1/2, Type "B", Hex Hd	0063	0063	0063	0063	0063	0063
14	Condenser Filter, Mini Twin	210-00118	210-00118	210-00118	210-00118	210-00118	210-00118
15	Bracket, Switch	200-00058	200-00058	200-00058	200-00058	200-00058	200-00058
16	On-Off Switch Rocker	99066	99066	99066	99066	99066	99066
17	Right Side Panel, Simplicity	200-00056	200-00056	200-00056	200-00056	200-00056	200-00056
18	Temperature Control	1059	1059	1059	1059	1059	1059
19	Screw, M4x8mm, TH, PH, Trilobe, Blk	99059	99059	99059	99059	99059	99059
20	Access Panel Screw	220-00012	220-00012	220-00012	220-00012	220-00012	220-00012
21	Back Panel, Mini Twin	200-00055	200-00055	200-00055	200-00055	200-00055	200-00055
22	Wire Saddle Locking Top Teardrop	354-00002	354-00002	354-00002	354-00002	354-00002	354-00002
23	Dryer, E27, E275/6, CS-2E	1891	1891	1891	1891	1891	1891
24	Compressor	330-00002	330-00002	99628	99628	330-00001	330-00001
25	Nut, Hex, Lock, 1/4-20 "K" Type	0055	0055	0055	0055	0055	0055
26	Pump Motor, Agitator models Assembly	231-00413	231-00413	231-00413	231-00413	231-00413	231-00413
26a	Magnet, Drive Assy	2049	2049	2049	2049	2049	2049
26b	Nut, M4, Nylon, A4SS	99406	99406	99406	99406	99406	99406
26c	Bracket, Pump Motor (agitator model)	200-00533	200-00533	200-00533	200-00533	200-00533	200-00533
26c	Bracket, Pump Motor (spray model)	200-00059	200-00059	200-00059	200-00059	200-00059	200-00059
26d	Pump Motor, Low Speed, 300 RPM	260-00027	260-00027	260-00027	260-00027	260-00027	260-00027
27	Evaporator Assembly, CS-2E	231-00007	231-00007	231-00007	231-00007	231-00007	231-00007
28	Seal, Bearing Sleeve	290-00005	290-00005	290-00005	290-00005	290-00005	290-00005
29	Bearing Sleeve, Agitator models Bearing Sleeve, Spray models	220-00305 220-00295	220-00305 220-00295	220-00305 220-00295	220-00305 220-00295	220-00305 220-00295	220-00305 220-00295
30	Cam-Lock Remove Bowl Assembly	231-00204	231-00204	231-00204	231-00204	231-00204	231-00204
31	Screw, JT4x50, SUS	350-00016	350-00016	350-00016	350-00016	350-00016	350-00016
32	Compact Fan Motor	3338	3338	3338	3338	260-00002	260-00002
33	Copper, Discharge, Mini Twin	362-00067	362-00067	362-00067	362-00067	362-00014	362-00014
34	Condenser, CS-2E	332-00001	332-00001	332-00001	332-00001	332-00001	332-00001
35	Left Side Panel, simplicity	200-00057	200-00057	200-00057	200-00057	200-00057	200-00057
36	Grommet, for Plastic Sides	2679	2679	2679	2679	2679	2679
37	Pump Motor, Spray models Assembly	231-00194	231-00194	231-00194	231-00194	231-00139	231-00139
37a	Pump Motor, Spray models, 1500 RPM	260-00013	260-00013	260-00013	260-00013	260-00014	260-00014
38	Drainage channel silicone, CS-2E	290-00099	290-00099	290-00099	290-00099	290-00099	290-00099
BOWL ASSEMBLY PARTS							
4	Cover, Drip Tray Mini Twin	200-00062	200-00062	200-00062	200-00062	200-00062	200-00062
5	Drip Tray, Mini Twin	210-00127	210-00127	210-00127	210-00127	210-00127	210-00127
39	Impeller, Mixing (agitator model)	210-00130	210-00130	210-00130	210-00130	210-00130	210-00130
40	Gasket, Bowl	290-00006	290-00006	290-00006	290-00006	290-00006	290-00006
41	Push Handle(Cup Activated)	200-00063	200-00063	200-00063	200-00063	200-00063	200-00063
42	Bowl 18 Liters (4.8 Gallon) (agitator model)		231-00010		231-00010		231-00010
43	Bowl Cover, 18 Liters (agitator model)		210-00126		210-00126		210-00126
44	Bowl 9 Liters (2.4 Gallon) (agitator model)	231-00009		231-00009		231-00009	
45	Valve, Dispense with Seal	99464	99464	99464	99464	99464	99464
46	Bowl Cover, 9 Liters (agitator model)	210-00125		210-00125		210-00125	
47	Bowl Cover, 18 Liters, Insulated (spray model)		231-00403		231-00403		231-00403
48	Bowl Cover, 9 Liters, Insulated (spray model)	231-00402		231-00402		231-00402	
49	Spray Tube (spray model)	210-00276	210-00276	210-00276	210-00276	210-00276	210-00276
50	Pump Cover (spray model)	210-00128	210-00128	210-00128	210-00128	210-00128	210-00128
51	Impeller, Magnetic Over Mold (spray model)	210-00255	210-00255	210-00255	210-00255	210-00255	210-00255
52	Valve, Dispense	99463	99463	99463	99463	99463	99463
53	Seal, Valve	99380	99380	99380	99380	99380	99380

Basic Machine Parts (continued)

CS-3L

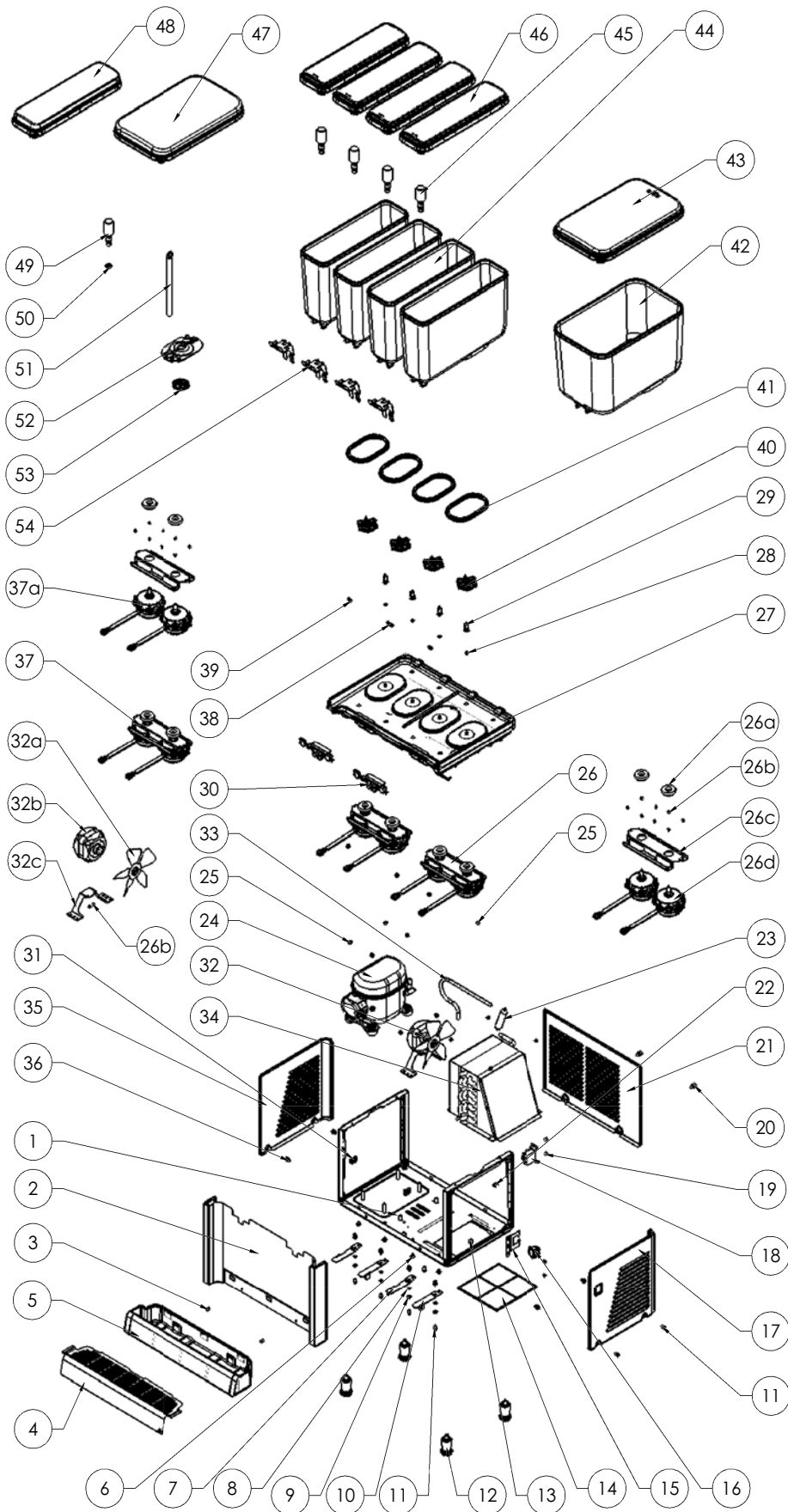


Basic Machine Parts (continued)

Parts List			
Simplicity Triple 18L, Bowl (CS-3L)			
Item	Description	CS-3L-16	CS-3L-22
BASE ASSEMBLY PARTS			
1	Base Structure, Mini Quad	200-00142	200-00142
2	Front Panel assembly with magnet, CS-3L	231-00392	231-00392
3	Screw Truss Head SS. (Mat. 420)8-32 x 1/2"	0069	0069
6	Screw, Support Drip Tray Bracket	220-00013	220-00013
7	Bracket, Support Drip Tray Lt.	200-00053	200-00053
8	Washer, Spring DIN 137B	99299	99299
9	Sleeve, Bracket Support Drip Tray	210-00119	210-00119
10	Bracket, Support Drip Tray Rt.	200-00052	200-00052
11	Screw, TPH M4x1.5 Plastite SS	99306	99306
12	Leg, 2" Adjustable W/Rubber Pad Leg, 4" Adjustable W/Rubber Pad	200-00021 M005SA	220-00021 M005SA
13	Screw, 14 x 1/2, Type "B", Hex Hd	0063	0063
14	Condenser Filter, CS-3L	210-00585	210-00585
15	Bracket, Switch	200-00058	200-00058
16	On-Off Switch Rocker	99066	99066
17	Right Side Panel, Simplicity	200-00056	200-00056
18	Temperature Control	1059	1059
19	Screw, M4x8mm, TH, PH, Trilobe, Blk	99059	99059
20	Access Panel Screw	220-00012	220-00012
21	Back Panel, Mini Quad	200-00145	200-00145
22	Wire Saddle Locking Top Teardrop	354-00002	354-00002
23	Dryer, D35, CS-4E	1451	1451
24	Compressor	3253	330-00006
25	Nut, Hex, Lock, 1/4-20 "K" Type	0055	0055
26	Pump Motor, Agitator models Assembly	231-00381	231-00381
26a	Magnet, Drive Assy	2049	2049
26b	Nut, M4, Nylon, A4SS	99406	99406
26c	Bracket, Pump Motor	200-00648	200-00648
26d	Pump Motor, Low Speed, 300 RPM	260-00027	260-00027
27	Evaporator Assembly, CS-3L	231-00405	231-00405
28	Seal, Bearing Sleeve	290-00005	290-00005
29	Bearing Sleeve, Agitator models Bearing Sleeve, Spray models	220-00305 220-00295	220-00305 220-00295
30	Cam-Lock Remove Bowl Lt. Assembly (Double Cam - Lock)	231-00433	231-00433
31	Cam-Lock Remove Bowl Rt. Assembly (Single Cam-Lock)	231-00434	231-00434
32	Fan Motor Assembly	3432	231-00212
32a	Fan blade	1460	1460
32b	Fan Motor	3430	1585
32c	Bracket, Fan Motor	3429	3429
33	Copper, Discharge	3763-2	3763-2
34	Condenser, CS-4E	332-00003	332-00003
35	Left Side Panel, Simplicity	200-00057	200-00057
36	Grommet, for Plastic Sides	2679	2679
37	Pump Motor, Spray models Assembly	231-00382	231-00382
37a	Pump Motor, Spray models, 1500 RPM	260-00028	260-00028
38	Drainage channel silicone, CS-4E	290-00100	290-00100
39	Drainage channel silicone, CS-3L	290-00106	290-00106
40	Wide Wire Saddle #WWS-A-2-01	354-00001	354-00001
BOWL ASSEMBLY PARTS			
4	Cover, Drip Tray Mini Quad	200-00143	200-00143
5	Drip Tray, Mini Quad	210-00252	210-00252
41	Impeller, Mixing	210-00130	210-00130
42	Gasket, Bowl 18L, Tall	290-00089	290-00089
43	Bowl Cover, 18 Liters, Tall, Insulated	231-00406	231-00406
44	Bowl 18 Liters, Tall (4.8 Gallon)	231-00404	231-00404
45	Valve, Dispense with Seal	99464	99464
46	Bowl Cover, 18 Liters, Tall	210-00495	210-00495
47	Valve, Dispense	99463	99463
48	Seal, Valve	99380	99380
49	Spray Tube	210-00410	210-00410
50	Pump Cover	210-00409	210-00409
51	Impeller, Magnetic Over Mold (spray model)	210-00255	210-00255
52	Push Handle (Cup Activated)	200-00063	200-00063

Basic Machine Parts (continued)

CS-4E, CS-2D, CS-3D



Basic Machine Parts (continued)

Parts List

Simplicity Mini Quad (CS-4E /CS-2D / CS-3D)

Item	Description	CS-4E-16	CS-4E-22	CS-2D-16	CS-2D-22	CS-3D-16	CS-3D-22
BASE ASSEMBLY PARTS							
1	Base Structure, Mini Quad	200-00142	200-00142	200-00142	200-00142	200-00142	200-00142
2	Front Panel assembly with magnet, Mini Quad	231-00287	231-00287	231-00287	231-00287	231-00287	231-00287
3	Screw Truss Head SS. (Mat. 420)8-32 x 1/2"	0069	0069	0069	0069	0069	0069
6	Screw, Support Drip Tray Bracket	220-00013	220-00013	220-00013	220-00013	220-00013	220-00013
7	Bracket, Support Drip Tray Lt.	200-00053	200-00053	200-00053	200-00053	200-00053	200-00053
8	Washer, Spring DIN 137B	99299	99299	99299	99299	99299	99299
9	Sleeve, Bracket Support Drip Tray	210-00119	210-00119	210-00119	210-00119	210-00119	210-00119
10	Bracket, Support Drip Tray Rt.	200-00052	200-00052	200-00052	200-00052	200-00052	200-00052
11	Screw, TPH M4x15 Plastite SS	99306	99306	99306	99306	99306	99306
12	Leg, 2" Adjustable W/Rubber Pad	220-00021	220-00021	220-00021	220-00021	220-00021	220-00021
12	Leg, 4" Adjustable W/Rubber Pad (Set of 4)	M0055A	M0055A	M0055A	M0055A	M0055A	M0055A
13	Screw, 1/4 x 1/2, Type "B", Hex Hd	0063	0063	0063	0063	0063	0063
14	Condenser Filter, Mini Quad	210-00585	210-00585	210-00585	210-00585	210-00585	210-00585
15	Bracket, Switch	200-00058	200-00058	200-00058	200-00058	200-00058	200-00058
16	On-Off Switch Rocker	99066	99066	99066	99066	99066	99066
17	Right Side Panel, Simplicity	200-00056	200-00056	200-00056	200-00056	200-00056	200-00056
18	Temperature Control	1059	1059	1059	1059	1059	1059
19	Screw, M4x8mm, TH, PH, Trilobe, Blk	99059	99059	99059	99059	99059	99059
20	Access Panel Screw	220-00012	220-00012	220-00012	220-00012	220-00012	220-00012
21	Back Panel, Mini Quad	200-00145	200-00145	200-00145	200-00145	200-00145	200-00145
22	Wire Saddle Locking Top Teardrop	354-00002	354-00002	354-00002	354-00002	354-00002	354-00002
23	Dryer, D35, CS-4E	1451	1451	1451	1451	1451	1451
24	Compressor	3253	330-00006	3253	330-00006	3253	330-00006
25	Nut, Hex, Lock, 1/4-20 "K" Type	0055	0055	0055	0055	0055	0055
26	Pump Motor, Agitator models Assembly	231-00413	231-00413	231-00413	231-00143	231-00413	231-00413
26a	Magnet, Drive Assy (Agitator model)	2049	2049	2049	2049	2049	2049
26a	Magnet, Drive Assy (Spray model)	2049	2049	2049	2049	2049	2049
26b	Nut, M4, Nylon, A4SS	99406	99406	99406	99406	99406	99406
26c	Bracket, Pump Motor (Agitator model)	200-00533	200-00533	200-00533	200-00533	200-00533	200-00533
26c	Bracket, Pump Motor (Spray model)	200-00059	200-00059	200-00059	200-00059	200-00059	200-00059
26d	Pump Motor, Low Speed, 300 RPM (Agitator model)	260-00027	260-00027	260-00027	260-00027	260-00027	260-00027
27	Evaporator Assembly, CS-4E	231-00288	231-00228	231-00288	231-00228	231-00288	231-00228
28	Seal, Bearing Sleeve	290-00005	290-00005	290-00005	290-00005	290-00005	290-00005
29	Bearing Sleeve, Agitator models	220-00305	220-00305	220-00305	220-00305	220-00305	220-00305
	Bearing Sleeve, Spray models	220-00295	220-00295	220-00295	220-00295	220-00295	220-00295
30	Cam-Lock Remove Bowl Assembly	231-00204	231-00204	231-00204	231-00204	231-00204	231-00204
31	Wide Wire Saddle #WWS-A-2-01	354-00001	354-00001	354-00001	354-00001	354-00001	354-00001
32	Fan Motor Assembly	3432	231-00212	3432	231-00212	3432	231-00212
32a	Fan blade	1460	1460	1460	1460	1460	1460
32b	Fan Motor	3430	1585	3430	1585	3430	1585
32c	Bracket, Fan Motor	3429	3429	3429	3429	3429	3429
33	Copper, Discharge	3763-2	3763-2	3763-2	3763-2	3763-2	3763-2
34	Condenser, CS-4E	332-00003	332-00003	332-00003	332-00003	332-00003	332-00003
35	Left Side Panel, Simplicity	200-00057	200-00057	200-00057	200-00057	200-00057	200-00057
36	Grommet, for Plastic Sides	2679	2679	2679	2679	2679	2679
37	Pump Motor, Spray models Assembly	231-00194	231-00139	231-00194	231-00139	231-00194	231-00139
37a	Pump Motor, Spray models, 1500 RPM	260-00013	260-00014	260-00013	260-00014	260-00013	260-00014
38	Drainage channel silicone, CS-4E	290-00100	290-00100	290-00100	290-00100	290-00100	290-00100
39	Drainage channel silicone, CS-2E	290-00099	290-00099	290-00099	290-00099	290-00099	290-00099
BOWL ASSEMBLY PARTS							
4	Cover, Drip Tray Mini Quad	200-00143	200-00143	200-00143	200-00143	200-00143	200-00143
5	Drip Tray, Mini Quad	210-00252	210-00252	210-00252	210-00252	210-00252	210-00252
40	Impeller, Mixing (Agitator model)	210-00130	210-00130	210-00130	210-00130	210-00130	210-00130
41	Gasket, Bowl	290-00006	290-00006	290-00006	290-00006	290-00006	290-00006
42	Bowl 18 Liters (4.8 Gallon)			231-00010	231-00010	231-00010	231-00010
43	Bowl Cover, 18 Liters (Agitator model)			210-00126	210-00126	210-00126	210-00126
44	Bowl 9 Liters (2.4 Gallon)	231-00009	231-00009			231-00009	231-00009
45	Valve, Dispense with Seal	99464	99464	99464	99464	99464	99464
46	Bowl Cover, 9 Liters (Agitator model)	210-00125	210-00125			210-00125	210-00125
47	Bowl Cover, 18 Liters, Insulated (Spray model)			231-00403	231-00403	231-00403	231-00403
48	Bowl Cover, 9 Liters, Insulated (Spray model)	231-00402	231-00402			231-00402	231-00402
49	Valve, Dispense	99463	99463	99463	99463	99463	99463
50	Seal, Valve	99380	99380	99380	99380	99380	99380
51	Spray Tube (Spray model)	210-00276	210-00276	210-00276	210-00276	210-00276	210-00276
52	Pump Cover (Spray model)	210-00128	210-00128	210-00128	210-00128	210-00128	210-00128
53	Impeller, Magnetic Over Mold (Spray model)	210-00255	210-00255	210-00255	210-00255	210-00255	210-00255
54	Push Handle (Cup Activated)	200-00063	200-00063	200-00063	200-00063	200-00063	200-00063

Spacer Bracket Installation

Installed Standoff Bracket Overview

Recommended Spacing:

Place Bubblers side-by-side in available space then center them in total available space.



Rear View

5 inch
rear distance



Left Rear Corner View

1 inch side spacing
allows 2 Bubblers to sit
side-by-side to allow a
total 2 inch clearance



Left Side View

Bracket extends
3.5 inches
down each side



Left Rear Corner View

Tools needed:

Phillips head screw driver
Flathead screw driver

1.



Rotate unit so that there is easy access to each side and rear of unit. (Recommended attaching spacer during cleaning of unit during closing or during opening). Total attachment time is 15 minutes.

2.



Orientation of bracket is with all 4 screw tabs against the base, as shown.

3.



Remove protective film from bracket and discard film.

Spacer Bracket Installation (continued)

4.



Orient bracket to base as before, using a Phillips head screwdriver, remove rear side panel screw from either left or right side panel. (Remove only the rear screw so that the front screw holds side panel during installation.)

5.



Using a flat head screwdriver, remove rear thumb screw on the same corner as the side panel screw that was removed. (Attach bracket at one corner at a time so that the other corner screw holds side and rear panels.)

6.



Side Panel View



Rear Panel View

Lift panel into position with screw tabs aligned as indicated in the images so that the tabs are on the outside of the existing side and rear panels.

7.



Drive the side panel screw first and then drive the rear panel thumb screw to attach the bracket at one corner.

8.



Repeat the same process for the other rear corner of the product.

9.

Place the two units back into location, side spacer's legs should be contacting the other Bubbler and then evenly space the two units from the units on either side.

If you still need help, call Grindmaster-Cecilware Technical Service Department, (502) 425-4776 or (800) 695-4500 (USA & Canada only) (Monday through Friday 8 AM - 6 PM EST). Please have the model and serial number ready so that accurate information can be given.

Prior authorization must be obtained from Grindmaster-Cecilware for all warranty claims.

Grindmaster-Cecilware provides the industry's BEST warranty. Visit our website at GMCW.com for warranty terms and conditions.

Grindmaster-Cecilware

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