
ELECTRO FREEZE®

REPLACEMENT PARTS MANUAL with ILLUSTRATIONS

QUALITY PARTS
PROTECT
YOUR
EQUIPMENT

**COMPACT
SERIES
SOFT SERVE
FREEZER
Model CS5**

184627-01 7/02

**KEEP YOUR FREEZER IN EXCELLENT CONDITION. ALWAYS CONTACT
YOUR ELECTRO FREEZE DISTRIBUTOR FOR REPLACEMENT PARTS.**

Replacement Parts Orders

You must have the serial number of your freezer when ordering parts — parts may differ with a particular serial number of the same model.

Parts are listed using terminology that best fits the function of the part. The illustrations in this section will help you to find the correct part number and description. The alphabetized parts list can be used to verify part numbers pertaining to the serial number of your unit.

Place your parts order through your local authorized Electro Freeze Distributor.

Name: _____

Address: _____

Phone: _____

If you require any further assistance, contact H. C. Duke & Son, Inc., *Electro Freeze* as follows:



Phone: (309) 755-4553

FAX: (309) 755-9858

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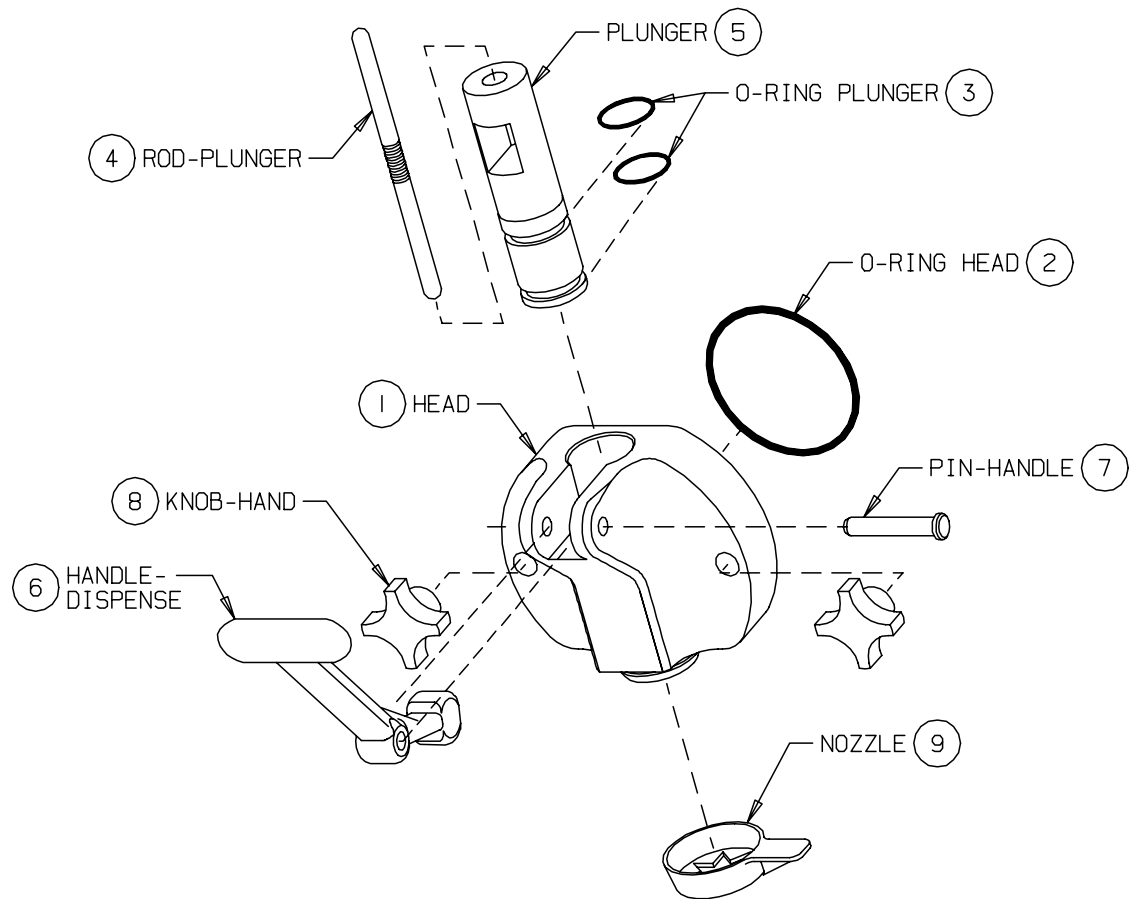


Figure 1 Head Assembly

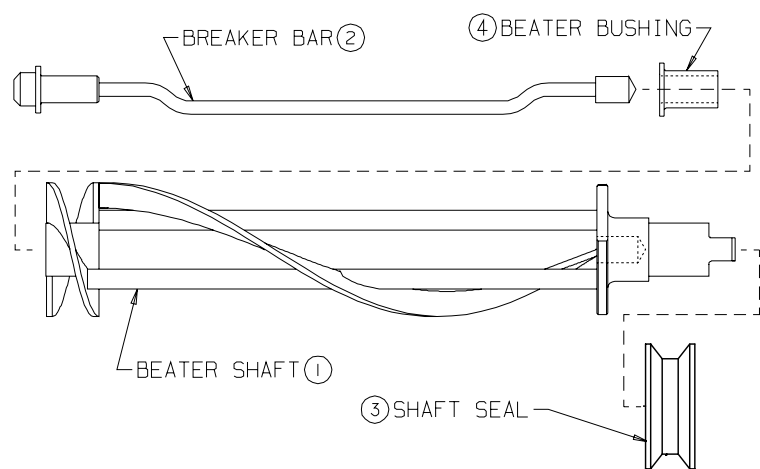
Item	Part No.	Description
*	116607	Head-Assy. Dispense (Complete)
1	116612	Head-Assy. Dispense
2	160627	O-ring (Head)
3	160624	O-ring (Plunger)
4	138611	Rod-Actuator
5	138603	Plunger-Dispense
6	196166	Handle-Dispense
6A	116323	Handle-Assy. Complete Dispense Stainless Steel (Optional-not shown)
7	160265	Pin-Handle
8	162622	Knob-Hand
9	196167	Nozzle-Dispense

* Includes all items above except #4, 6A, and 8.

Not Shown:

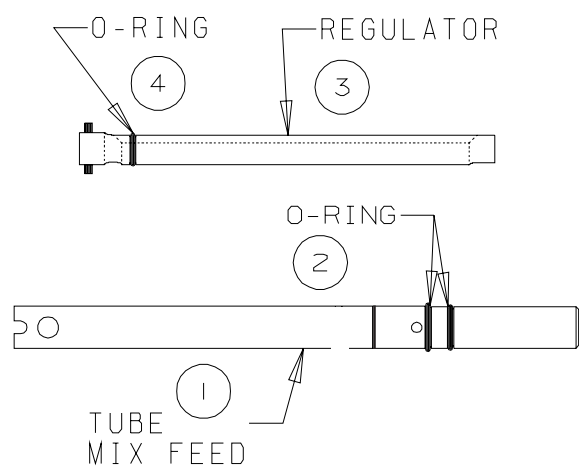
116598 Stud-Assembly Cylinder

Figure 2 Beater Shaft Assembly



Item	Part No.	Description
1	116592	Shaft-Assy. Beater
2	116597	Breaker-Assy. Bar
3	115525	Seal-Assy. Shaft Double includes: 160557 Seal-Beater Shaft 137593 Washer-Double Shaft Seal
4	138610	Bushing-Beater

Figure 3 Mix Feed Tube Assembly



Item	Part No.	Description
*	117100	Tube-Assembly Mix Feed
1	138894	Tube-Mix Feed
2	160626	O-ring-Mix Feed Tube
3	116005	Insert-Assembly Mix Feed
4	160610	O-ring-Regulator

* Includes item 1 through 4.

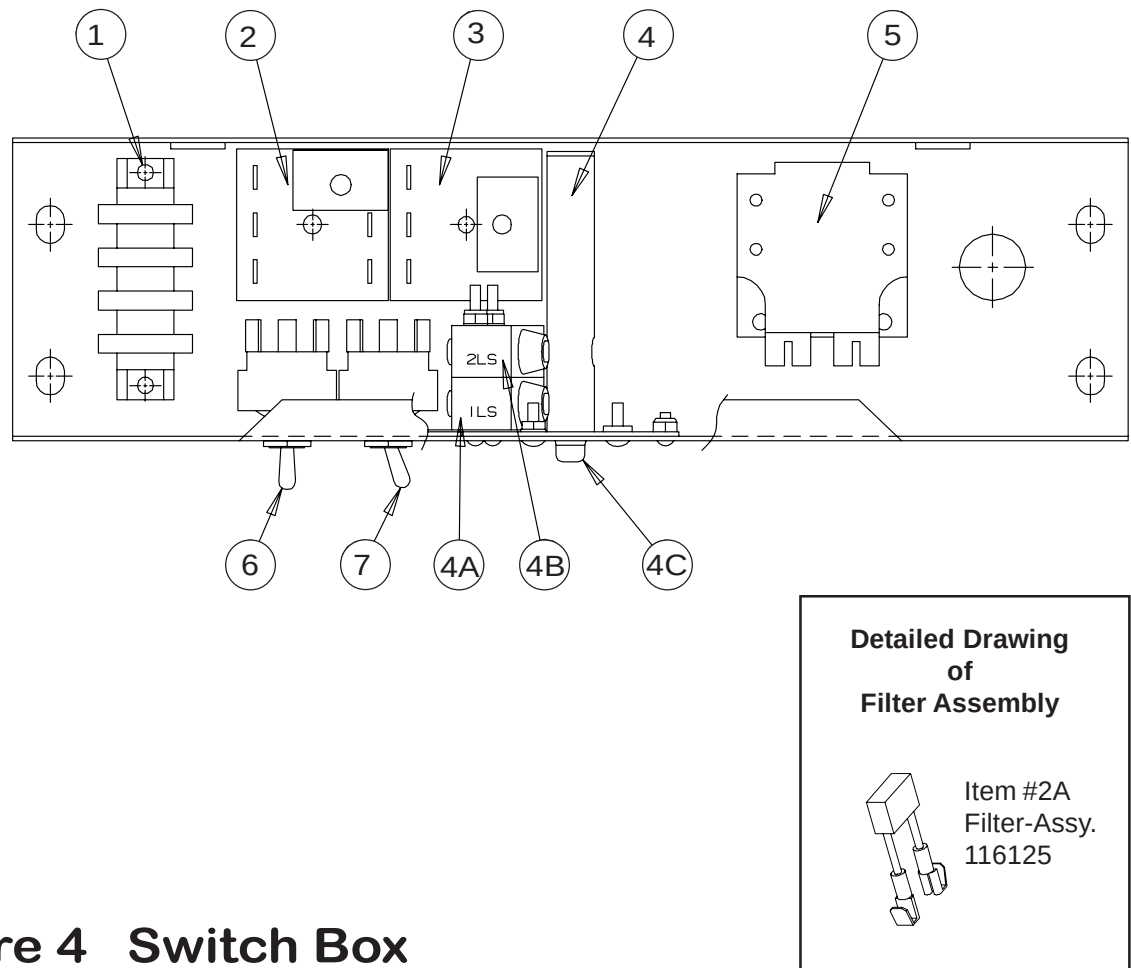


Figure 4 Switch Box

Item	Part No.	Description
1	150795	Strip-Terminal
2	116924	Timer-Assy. (with Potentiometer) includes: 150252 Timer-.5-60 Delay on Break 150253 Module-Plug on Vari Time
2A	116125	Filter-Assy. (see detailed drawing)
3	115858	Timer-Assy. Recycle (Night Cycle) includes: 150226 Timer-Recycle (Night) 150229 Potentiometer-2 Meg
4	116613	Switch-Assy. Plunger includes: 150456 Switch-Snap Button (Head 1 LS) 150456 Switch-Snap Button (Plunger 2 LS)
4A		137760 Rod-Plunger Switch (Actuator Button)
4B		115684 Guide-Assy. Push Rod (not shown)
4C		137893 Insulator-Switch (not shown)
4D		162303 Spring-Plunger Rod (not shown)
4E		
4F		
5	150339	Contactor-Motor/Compressor 60 HZ
6	150461	Switch-Toggle DPDT (DAY/NIGHT)
7	150463	Switch-Toggle DPDT (AUTO/OFF/CLEAN)

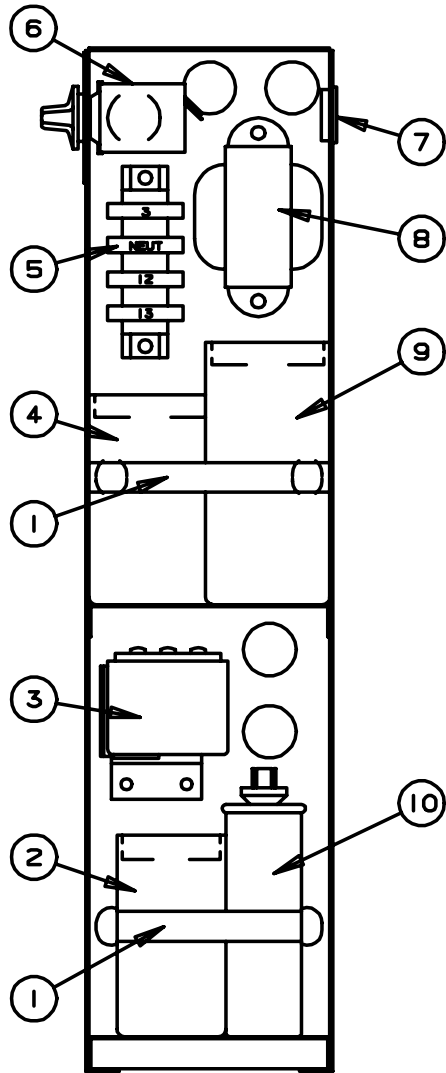


Figure 5 Capacitor/Relay Box

Item	Part No.	Description
1	160743	Clamp-Hose 3-1/16 to 4 (Capacitor)
2	151426-01	Capacitor-Start (60 HZ)
3	151427-01	Compressor 340-408 MFD 65VAC
4	150317	Relay-Compressor (60 HZ) GE3ARR
5	150795	Capacitor-Start (50/60 HZ)
6	161202	Beater Motor 30 MFD 370VAC
7	150778	Strip-Terminal
8	150286	Thermostat-5° Fixed Dif. (Hopper)
9	150318	Bushing-Insulator
10	151421	Transformer-CL2 120 PRI/24V Sec. (60 HZ) 115V
		Capacitor-Run (60 HZ)
		Beater Motor 189-227 MFD 125VAC
		Capacitor-Run (50/60 HZ)
		Compressor 15 MFD 370VAC

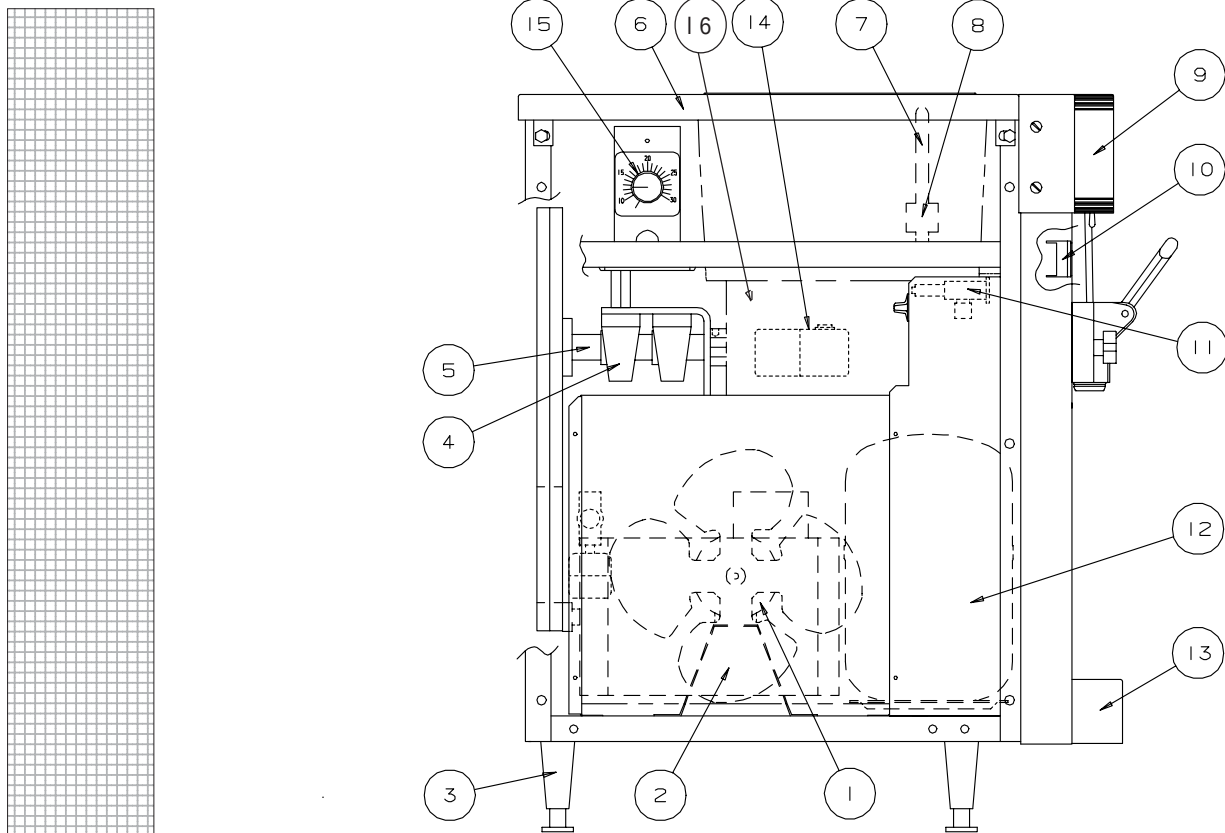


Figure 6 CS5 Model – Side View

Item	Part No.	Description
1	151074-01	Motor-Fan 35w 115V/60 HZ
1A	162611	Bracket-Fan Motor
1B	155126-C	Condenser-Air
2	159018	Blade-Fan 10" 32°
2A	160104	Nut-Hex 1/4-20 ZN (Fan Blade)
3	115800	Leg-Assy. (4" Adj. Metal)
4	153030	Bearing-1" Pillow Block
5	115767	Shaft-Assy. Drive includes: 137795 Shaft-Drive 137787 Cap-Coupling 160056 Screw-SK Set 1/4-20 x 1/4 ZN
6	115697	Panel-Assy. Hopper & Top
7	161300	Switch-Level Float Sensor
8	161301	Float-Level Sensor
9	196203	Trimstrip (Black)
10	150541	Light-Indicator "Add Mix"
11	155452	Valve-Auto Expansion
12	116824	Compressor-Assy. also includes: 151426-01 Capacitor-Start 151421 Capacitor-Run 155063 Drier-Filter 151427-01 Relay-Start Run

Item	Part No.	Description
13	196204	Tray-Drip (Black)
13A	196205	Insert-Tray (Black)
14	155435	Valve-Solenoid 115V
15	116442	Control-Assy. & Bracket (Thermostat) includes: 138419 Bracket-Thermo- stat 161215 Control-Electronic (only) 165026 Decal-Thermostat 162605 Knob-RD Dial 160554 O-ring
16	116599	Cylinder-Assy. Complete

Not Shown:

155419 Valve Access

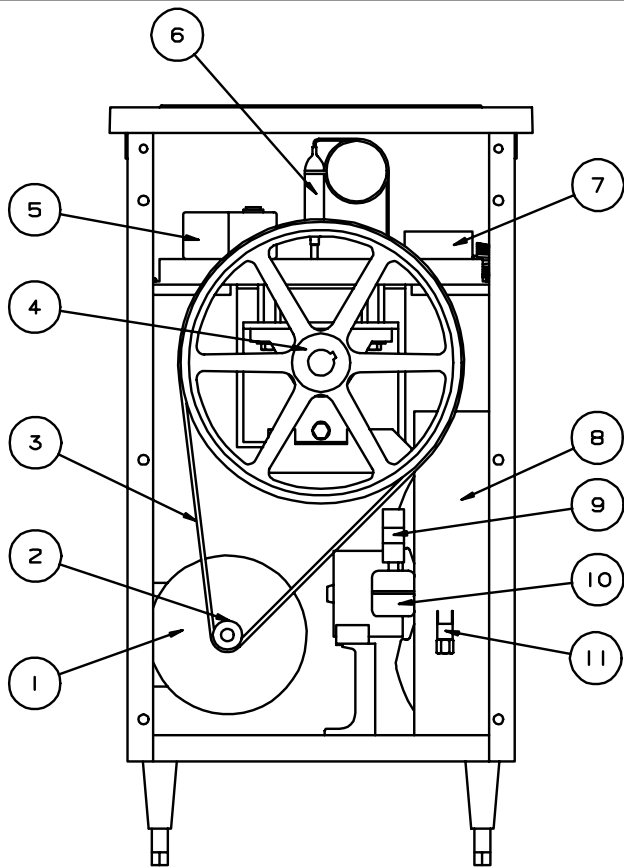


Figure 7 CS5 Model – Rear View

Item	Part No.	Description
1	118135	Kit-Motor & Capacitor 1/2HP includes: 150317 Start Capacitor 150318 Run Capacitor
1A	150855	Switch-Start 60 HZ
2	153637	Sheave-5/8 Bore 1.75 OD (Driver Pulley)
2A	153322	Key-Drive 3/16" Sq. x 1-1/2"
2B	160495	Screw-SK Set 1/4-20 x 1/4 BKOX
3	153177	Belt-V
4	153638	Sheave-1 Bore 12.25 OD (Driven Pulley)
4A	153323	Key-Drive 1/4" Sq. x 1-1/2"
4B	160033	Screw-SK Set 5/16-18 x 3/8 BKOX
5	155435	Valve-Solenoid 115V/60 HZ
6	155433	Tube-Capillary w/strainer
7	116442	Control-Assy. & Bracket (Thermostat) includes: 138419 Bracket-Thermostat 161215 Control-Electronic (only) 165026 Decal-Thermostat 162605 Knob-RD Dial 160554 O-ring
8	155126-C	Condenser-Air
9	155459	Glass-Sight
10	155063	Drier-Filter
11	155450	Cut-Out-High Pressure
Not Shown:		
	161216	Sensor-Thermistor-10 K

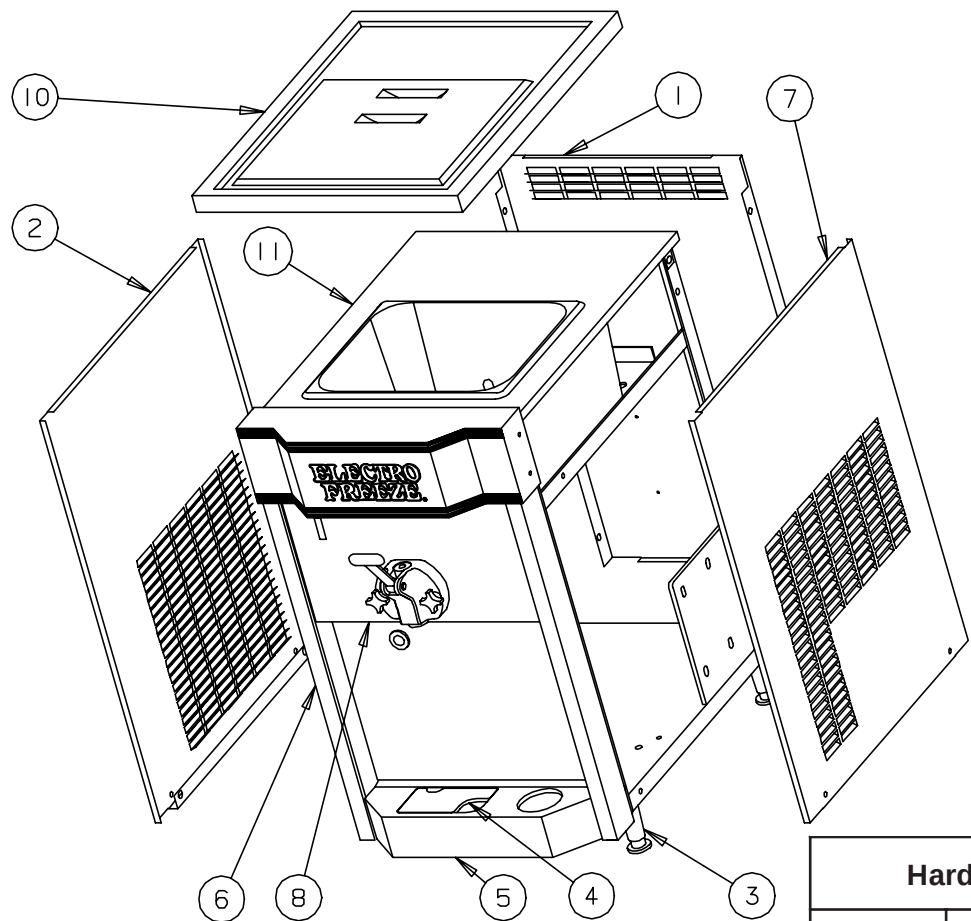


Figure 8 CS5 Model
– Panel View

Item	Part No.	Description
1	137768-C	Panel-Rear
2	137767-C	Panel-Side LH
3	115800	Leg-Assy. (Adjustable)
4	196205	Insert-Drip Tray (Black)
5	196204	Tray-Drip (Black)
6	116554-C	Panel-Assy. Front
6A	159064	Grommet-Drain Tube (not shown)
7	137766-C	Panel-Side RH
8	138526	Panel-Front Dispense
9	196203	Trimstrip (Black)
10	196206	Cover-Hopper (Black)
11	115697	Panel-Assy. Hopper and Top

Hardware for CS5 Panels			
Panel	Screw	Nut-Speed on Frame	Bushing
Dispense	160076	n/a	n/a
Front	160048	160117	n/a
Rear	160048	160117	n/a
Side	159219	n/a	139790
Trimstrip	160076	n/a	n/a
n/a - Not Applicable			

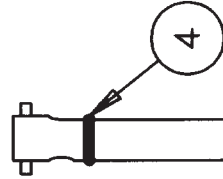
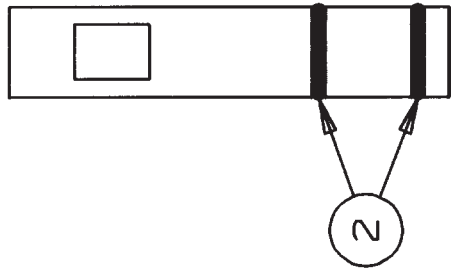
Panel Decals & Labels	
Part No.	Description
165025	Beater Warning
165242	Cleaning Instructions
165093	Clear Overlay
164004-03	Operating Instructions
165126	Panel Removal
165145	Trimstrip
169048	Ventilation

Accessories

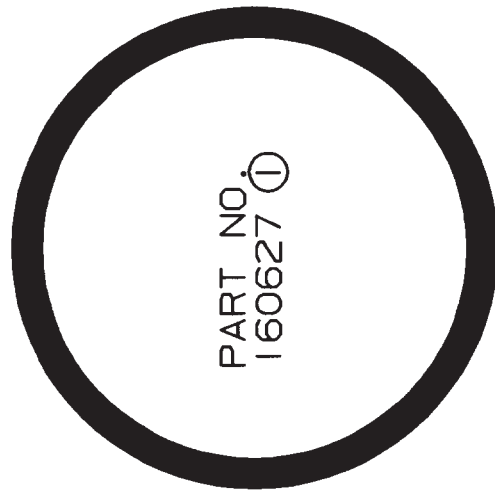
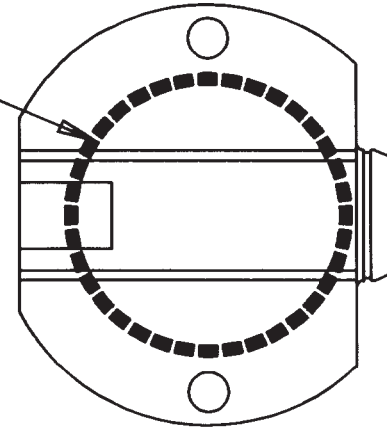
PART No.	DESCRIPTION
158003	Brush-7/16 x 1-1/8 Double Handle
158008	Brush-2-9/16 w/ 10 inch Handle
158026	Brush-1 inch Dia. 12 inch Long
158037	Brush-1/4 inch Dia.18-1/2 Overall Length
196206	Cover-Hopper (Black)
158051	Cup-Overrun (use with P/N 158049 scale)
116851	Kit-O-Ring CS5
115800	Leg-Assy. (4 inch)
158000A	Lubricant-Petrol Gel (per 4 oz. tube)
184240	O-Ring Chart
158013	Sanitizer-Stera-Sheen (sample)
158014A	Sanitizer-Stera-Sheen (per 4 lb. jar)
158049	Scale-Overrun Z32
169374	Tool-O-Ring Removal
196204	Tray-Drip (Black)
196205	Insert-Drip Tray (Black)

MODEL CS5

184627-01



DO NOT
LUBRICATE #3



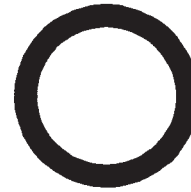
PART NO.
160627 ①



PART NO.
160610 ④



PART NO.
160626 ③



PART NO.
160624 ②

O-RING CHART

PH.NO. 309-755-4553

H.C.DUKE & SON, INC.

Alphabetized Parts List for Model CS5

IMPORTANT: All parts shown are for standard models designed for 115v/ 60Hz/1phase.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Bearing-1" Pillow Block	153030	2	G2A-1818 –
Belt-Poly V	153177	2	G2A-1818 –
Blade-Fan 10" 32°	159018	1	G2A-1818 –
Board-Beater Motor 50/60 HZ triac	150855	1	G2A-1818 –
Bracket-Fan Motor	162611	1	G2A-1818 –
Bracket-Thermostat	138419	1	G2A-1818 –
Breaker-Assy. Bar	116597	1	G2A-1818 –
Brush-1/4" Dia 18-1/2 Overall Length (Mix Feed Assembly)	158037	1	G2A-1818 –
Brush-2-9/16 w/10 in. Handle (Cylinder)	158008	1	G2A-1818 –
Brush-7/16 x 1-1/8 Double End	158003	1	G2A-1818 –
Brush-1" Dia. 12" Long (Drain Tube)	158026	1	G2A-1818 –
Bushing-Beater	138610	1	G2A-1818 –
Bushing-Insulator (Capacitor/Relay Box)	150778	1	G2A-1818 –
Bushing-Panel	139790	4	G2A-1818 –
Bushing-Shaft Seal	See Seal-Assembly - Washer		
Cap-Coupling (Drive Shaft)	137787	1	G2A-1818 –
Capacitor-Run (Beater Motor)	150318	1	G2A-1818 –
Capacitor-Run (Compressor)	151421	1	G2A-1818 –
Capacitor-Start (Beater Motor)	150317	1	G2A-1818 –
Capacitor-Start (Compressor)	151426-01	1	G2A-1818
Clamp-Relay Box Capacitor	160743	2	G2A-1818 –
* As Required ** Items Included In O-Ring Kit No. 116851 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Alphabetized Parts List for Model CS5

IMPORTANT: All parts shown are for standard models designed for 115v/ 60Hz/1phase.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Compressor Assembly-120/60/1 (with start components)	116824	1	G2A-1818 –
Capacitor-Run (15MFD 370VAC 50/60 HZ)	151421	1	G2A-1818 –
Capacitor-Start (340-408MFD 165VAC 50/60 HZ)	151426-01	1	G2A-1818 –
Drier-Filter	155063	1	G2A-1818 –
Relay-Start 60 HZ 3ARR3	151427-01	1	G2A-1818 –
Condenser-Air	155126-C	1	G2A-1818 –
Connector-Terminal	150705	1	G2A-1818 –
Contact-Compressor/Beater	150339	2	G2A-1818 –
Control-Assembly and Bracket	116442	1	G2A-1818 –
Bracket-Thermostat	138419	1	G2A-1818 –
Control-Electronic Temp. (Thermostat)	161215	1	G2A-1818 –
Decal-Thermostat	165026	1	G2A-1818 –
Knob-RD Dial	162605	1	G2A-1818 –
O-ring	160554	2	G2A-1818 –
Control-Electronic	161215	1	G2A-1818 –
Cord-Molded (with plug)	150602	1	G2A-1818 –
Cover-Cap/Relay Box	115797	1	G2A-1818 –
Cover-Electrical Box	115789	1	G2A-1818 –
Cover-Hopper Black	196206	1	F2D-1600
Cover-Hopper NLA Use 196206	196171	1	G2A-1818 – E2D-1424
Cut-Out-High pressure	155450	1	G2A-1818 –
Cup (only)-Shaft Seal	160557	1	G2A-1818 –
Cup-Overrun	158051	*	G2A-1818 –
Cylinder-Assembly Complete	116599	1	G2A-1818 –
Decal-6" Air Flow	165119	1	G2A-1818 –
* As Required ** Items Included In O-Ring Kit No. 116851 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Alphabetized Parts List for Model CS5

IMPORTANT: All parts shown are for standard models designed for 115v/ 60Hz/1phase.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Decal-Beater Warning	165025	1	G2A-1818 –
Decal-Cleaning Instructions	165242	1	G2A-1818 –
Decal-Clear Overlay	165093	1	G2A-1818 –
Decal-Electric Box Danger	165000	1	G2A-1818 –
Decal-Electric Shock	165186	1	G2A-1818 –
Decal-Operating Instructions	164004-03	1	G2A-1818 –
Decal-Panel Removed	165126	3	G2A-1818 –
Decal-Refrigerant 404A	165114	1	G2A-1818 –
Decal-Thermostat	165026	1	G2A-1818 –
Decal-Trimstrip (Electro Freeze)	165217-02	1	G2A-1818 –
Decal-Trimstrip (Self-service)	165220	1	Optional
Decal-Ventilation	169048	1	G2A-1818 –
Decal-Wiring	165315	1	G2A-1818 –
Diagram-Wiring	138637	1	G2A-1818 –
Drain Tube Assembly	115663	1	G2A-1818 –
Drier-Filter (Flare Fitting)	155053	1	G2A-1818 – J2B-2438
Drier-Filter (Sweat Fitting)	155063	1	J2B-2439 –
Filter-Assembly	116125	1	G2A-1818 –
Float-Level Sensor	161301	1	G2A-1818 –
Glass-Sight (Flare Fitting)	155460	1	G2A-1818 – J2B-2438
Glass-Sight (Sweat Fitting)	155459		J2B-2439 –
Grommet-Compressor Mtg.	151431	4	G2A-1818 –
Grommet-Drain Tube	159064	1	G2A-1818 –
Guide Assy-Plunger Rod	115684	1	G2A-1818 –
* As Required ** Items Included In O-Ring Kit No. 116851 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Alphabetized Parts List for Model CS5

IMPORTANT: All parts shown are for standard models designed for 115v/ 60Hz/1phase.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Handle-Dispense Plastic (Head Assembly)	196166	1	G2A-1818 –
Handle-Dispense Stainless Steel	116323	1	Optional
Head-Assembly Dispense	116607	1	G2A-1818 –
Handle-Dispense Plastic	196166	1	G2A-1818 –
Head-Assy. Dispense	116612	1	G2A-1818 –
O-Ring (Head)	160627	1	G2A-1818 –
O-Ring (Plunger)	160624	2	G2A-1818 –
Pin-Handle	160265	1	G2A-1818 –
Plunger-Dispense	138603	1	G2A-1818 –
Head-Assembly Dispense (Head only)	116612	1	G2A-1818 –
Insert-Drip Tray (Black)	196205	1	F2D-1600 –
Insert-Drip Tray Gray NLA Use 196205	196170	1	G2A-1818 –E2D-1424
Insert-Assembly Mix Feed	116005	1	G2A-1818
Key-Drive 3/16" sq x 1-1/2" (Driver Sheave)	153322	2	G2A-1818 –
Key-Drive 1/4" sq x 1-1/2" (Driven Sheave)	153323	2	G2A-1818 –
Kit-O-ring **	116851	1	G2A-1818 –
Kit-Solenoid Valve	155437	A/R	G2A-1818 –
Knob-Hand	162622	2	G2A-1818 –
Knob-RD Dial	162605	1	G2A-1818 –
Label-CLEAN/OFF/AUTO	165145	1	G2A-1818 –
Label-DAY/NIGHT	165145	1	G2A-1818 –
Leg-Asy. (4-inch Adjustable Metal)	115800	4	G2A-1818 –
Light-Indicator (ADD MIX)	150541	1	G2A-1818 –
Lubrication-Petrol Gel	158000A*	A/R	G2A-1818 –
* As Required ** Items Included In O-Ring Kit No. 116851 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Alphabetized Parts List for Model CS5

IMPORTANT: All parts shown are for standard models designed for 115v/ 60Hz/1phase.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Manual-Operators-CS5 Instruction	184627	1	G2A-1818 –
Motor-Beater 115/60/1	118135	1	G2A-1818 –
Capacitor-Run (60HZ 30MFD 370VAC)	150318	1	G2A-1818 –
Capacitor-Start (60HZ 295-355MFD 125VAC)	150317	1	G2A-1818 –
Switch-Start	150855	1	G2A-1818 –
Motor-Fan 35W 115V 60 HZ	151074-01	1	G2A-1818 –
Nozzle-Dispense (Head Assembly)	196167	1	G2A-1818 –
Nut-Speed #10-24	159132	2	G2A-1818 –
Nut-Speed 1/4-20 (On Frame)	160117	12	G2A-1818 –
Operator's Instruction Sheet - English	184837	*	G2A-1818 –
Operator's Instruction Sheet - Spanish	184837-15	*	G2A-1818 –
Operator's Instruction Sheet - Chinese	184859	*	G2A-1818 –
O-ring (Head)	160627	1**	G2A-1818 –
O-ring (Mix Feed Regulator)	160610	1**	G2A-1818 –
O-ring (Mix Feed Tube)	160626	2**	G2A-1818 –
O-ring (Plunger)	160624	2**	G2A-1818 –
O-ring Chart	184240	*	G2A-1818 –
O-ring Kit **	116851	1	G2A-1818 –
Panel-AssemblyFront	116554	1	G2A-1818 –
Panel-Assembly Hopper and Top	115697	1	G2A-1818 –
Panel-Dispense	138526	1	G2A-1818 –
Panel-Rear	137768	1	G2A-1818 –
Panel-LH Side***	137767	1	G2A-1818 –
* As Required ** Items Included In O-Ring Kit No. 116851 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Alphabetized Parts List for Model CS5

IMPORTANT: All parts shown are for standard models designed for 115v/ 60Hz/1phase.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Panel-RH Side***	137766	1	G2A-1818 –
Panel Gray-Switch Box w/EF decal NLA Use 196203	196168	1	G2A-1818 – E2D-1424
Panel Black-Switch Box w/EF decal	196203	1	F2D-1600 –
Pin-Handle (Head Assembly)	160265	1	G2A-1818 –
Plunger-Dispense (Head Assembly)	138603	1	G2A-1818 –
Pulley	See "Sheave"		
Regulator-Mix Feed Tube	116005	1	G2A-1818 –
Relay-Compressor (60HZ)	151427-01	1	G2A-1818 –
Rod-Plunger Switch (Actuator Button)	137760	1	G2A-1818 –
Rod-Actuator (Plunger)	138611	1	G2A-1818 –
Sanitizer-Sample	158013	A/R*	G2A-1818 –
Sanitizer-4 lb. jar	158014A	A/R*	G2A-1818 –
Sanitizer-Case/4 jars	158014	A/R*	G2A-1818 –
Scale-Overrun	158049	*	G2A-1818 –
Screw-Sk Set 1/4-20 x 1/4 ZN (Drive Shaft)	160495	2	G2A-1818 –
Screw-Sk Set 1/4-20 x 1/4 ZN (Driver Sheave)	160495	2	G2A-1818 –
Screw-SK Set 5/16-18x3/8 BKOX (Driven Sheave)	160033	2	G2A-1818 –
Screw-TRPM #10-24 x 1/2 SST (Dispense Panel & Trimstrip)	160076	8	G2A-1818 –
Screw-TRPM 1/4-20 x 1/2 SST (Front & Rear Panel)	160048	6	G2A-1818 –
Screw-TRPM 1/4-20 x 1 SST (Side Panels)	159219	4	G2A-1818 –
* As Required ** Items Included In O-Ring Kit No. 116851 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Alphabetized Parts List for Model CS5

IMPORTANT: All parts shown are for standard models designed for 115v/ 60Hz/1phase.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Seal-Assembly Shaft	113824	1**	G2A-1818 – L2H
Seal-Beater Shaft (Cup-only)	160557	1	G2A-1818 – L2H
Washer-Shaft Seal	136025	1	G2A-1818 – L2H
Seal-Assembly Shaft Double	115525	1**	A2H –
Seal-Beater Shaft (Cup-only)	160557	2	A2H –
Washer-Shaft Double Seal	137593	1	A2H –
Sensor-10K Thermistor	161216	1	G2A-1818 –
Shaft-Assembly Beater	116592	1	G2A-1818 –
Shaft-Assembly Drive	115767	1	G2A-1818 –
Cap-Coupling	137787	1	G2A-1818 –
Screw-Sk Set 1/4-20 x 1/4 ZN	160056	1	G2A-1818 –
Shaft-Drive (Shaft only)	137798	1	G2A-1818 –
Sheave-1 Bore 12.25 OD (Driven Pulley)	153638	1	G2A-1818 –
Key-1/4" SQ x 1-1/2"	153323	1	G2A-1818 –
Screw-Set-5/16-18 x 3/8	160033	2	G2A-1818 –
Sheave-5/8 Bore 1.75 OD (Driver Pulley)	153637	1	G2A-1818 –
Key-3/16" SQ x 1-1/2"	153322	1	G2A-1818 –
Screw-Set-1/4-20 x 1/4	160495	2	G2A-1818 –
Shroud-Fan	137739	1	G2A-1818 –
Sight-Glass (Flare Fitting)	155460	1	G2A-1818 – J2B-2438
Sight-Glass (Sweat Fitting)	155459	1	J2B-2439 –
Spring-Plunger Rod	162303	1	G2A-1818 –
Strip-Terminal	150795	2	G2A-1818 –
Stud-Cylinder	116598	2	G2A-1818 –
Switch-Assembly Plunger	116613	1	G2A-1818 –
Guide-Assy. Push Rod	115684	1	G2A-1818 –
Insulator-Switch	137893	1	G2A-1818 –
Rod-Plunger Switch (Actuator Button)	137760	1	G2A-1818 –
Spring-Plunger	162303	1	G2A-1818 –
Switch-Snap Button (Head & Plunger)	150456	2	G2A-1818 –
* As Required ** Items Included In O-Ring Kit No. 116851 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Alphabetized Parts List for Model CS5

IMPORTANT: All parts shown are for standard models designed for 115v/ 60Hz/1phase.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Switch-Level Float Sensor	161300	1	G2A-1818 –
Switch-Plunger	150456	1	G2A-1818 –
Switch-Snap Button (Head & Plunger)	150456	1	G2A-1818 –
Switch-Toggle DPDT (AUTO-OFF-CLEAN)	150463	1	G2A-1818 –
Switch-Toggle DPDT (DAY-NIGHT)	150461	1	G2A-1818 –
Thermostat-5° Fixed (Hopper)	161202	1	G2A-1818 –
Thermostat-Assy.	See "Control-Assy."		
Timer-Assembly with Potentiometer	116924	1	G2A-1818 –
Timer-.5–60 Delay on Break	150252	1	G2A-1818 –
Module-Plug on Vari Time	150253	1	G2A-1818 –
Timer-Assembly Recycle (Night Cycle)	115858	1	G2A-1818 –
Potentiometer-2 Meg			
(0-40 min. OFF) (VTP5P)	150229	1	G2A-1818 –
Timer-Recycle (Night)(TSDR64905A4)	150226	1	G2A-1818 –
Tool-O-ring Removal	169374	*	G2A-1818 –
Transformer-CL2 120PRI/24V Sec.	150286	1	G2A-1818 –
Tray-Drip (Black)	196204	1	F2D-1600 –
Tray-Drip Gray NLA Use 196204	196169	1	G2A-1818 – E2D-1424
Trimstrip Assembly-Switch Box Panel (w/EF label) NLA Use 196203	115777	1	G2A-1818 – G2B
Trimstrip(Black)			
Switch Box Panel E/F Decal	196203	1	F2D-1600 –
Trimstrip Assembly Gray-Switch Box Panel E/F Decal NLA Use 196203	196168	1	G2B – E2D-1424
Tube-Capillary (w/strainer)	155433	1	G2A-1818 –
Tube-Mix Feed	138894	1	G2A-1818 –
* As Required ** Items Included In O-Ring Kit No. 116851 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Alphabetized Parts List for Model CS5

IMPORTANT: All parts shown are for standard models designed for 115v/ 60Hz/1phase.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Tube-Assembly Mix Feed (complete)	117100	1	G2A-1818 –
Insert-Assembly Mix Feed	116005	1	G2A-1818 –
O-ring (Mix Feed Tube)	160626	2	G2A-1818 –
O-ring (Regulator)	160610	1	G2A-1818 –
Tube-Mix Feed	138894	1	G2A-1818 –
Valve-Access	155419	1	G2A-1818 –
Valve-Auto Exp. (Flare Fitting)	155407	1	G2A-1818 – J2B-2438
Valve-Auto Exp. (Sweat Fitting)	155452	1	J2B-2439 –
Valve-Solenoid 115V	155435	2	G2A-1818 –
* As Required			
** Items Included In O-Ring Kit No. 116851			
*** LH or RH — Left or right hand is determined as you face the front of freezer.			
NLA No Longer Available			

Cleaning & Sanitizing Electro Freeze® Compact Series Soft Serve Freezers

The cleaning and sanitizing instructions explained in this instruction sheet are required to maintain a clean, sanitary freezer. The freezer should be disassembled, cleaned, reassembled, lubricated, and sanitized daily to ensure the best possible product and freezer operation.

This instruction sheet is not intended to be used in place of the Operator's Manual. Use the following information to assist you only after you have read, understood, and are accomplished in the procedures for cleaning and sanitizing detailed in the Electro Freeze Freezer Operator's Manual.



CAUTION

To avoid electrical shock or contact with moving parts, make sure all switches are in the "OFF" position and that the main power supply is disconnected.

CLEANING

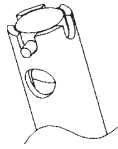
1. Disassemble the freezer components in accordance with the Operator's Manual instructions.
2. Prepare a three-compartment sink for cleaning, rinsing, and sanitizing parts removed from the freezer per applicable health codes. The sanitizer should be mixed according to the manufacturer's instructions to yield 100 parts per million (PPM) available chlorine solution. (example: Stera-Sheen Green Label).
3. Wash, rinse, sanitize, and air dry all parts removed from the freezer. For proper sanitizing, the parts must remain in the sanitizer for 5 minutes.
4. The following parts should be cleaned with the appropriate brush supplied with freezer.
 - a. The mix feed tube, regulator main bore, and cross holes.
 - b. The head plunger openings, center plunger ports, breaker bar cavities, O-ring grooves, dispense nozzle mounting rings, and mix ports.
 - c. The shaft seal, bushing, plunger O-ring grooves, nozzle, and float.
 - d. The beater shaft inside the front collar and the hole on the rear flange.
5. Clean the freezer with the approved cleaning solutions and brush out the inside of the hopper and around the mix level sensor tube.
6. Thoroughly brush the hopper and mix feed port to the cylinder.
7. Brush the inside of the cylinder, making certain to clean the back wall of the cylinder.
8. Brush the inside of the drain tube.

SANITIZING

1. Assemble and lubricate freezer components in accordance with the Operator's Manual instructions.
2. Wash and sanitize your hands and forearms.
3. Prepare 2 gallons (7.6 liters) of sanitizing solution in a container. The sanitizing solution must be mixed according to manufacturer's instructions to yield 100 PPM (parts per million) available chlorine solution (i.e., Stera-Sheen or equivalent).
4. Make sure that the mix feed tube assembly and mix float are in the bottom of the hopper pan.
5. Pour sanitizing solution into the hopper pan. Using a clean brush, scrub the hopper walls, mix level sensor, the mix feed port from the hopper to the cylinder, the inside of the mix feed tube, and the mix float.
6. Install mix float on mix level sensor and wash down the inside of the hopper cover.
7. When the cylinder has filled with sanitizing solution, reconnect power, turn the selector switch to the "CLEAN" position and allow the beater to run for 5 minutes. During this time period, check for leaks around the head, plunger, and drain tube.
8. Place an empty container under the dispensing head and drain the solution by opening the plunger to allow the cylinder and hopper to empty. Open and close the plunger at least 10 times during draining to sanitize the port area of the dispense head.
9. When the sanitizing solution has drained from the freezer, turn the selector switch to the "OFF" position.

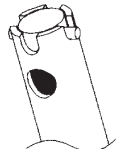
Problem? Contact your local authorized distributor or the freezer manufacturer, Electro Freeze Service Department, 2116 Eighth Avenue, East Moline, IL 61244, (309) 755-4553 or FAX (309) 755-9858.

PRIMING THE FREEZER



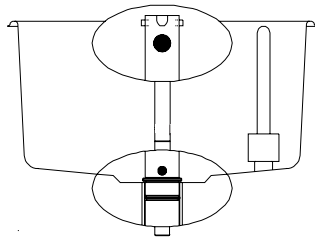
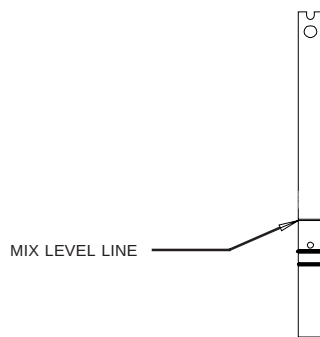
OPEN

Look through top hole in tube — you should see clear through.

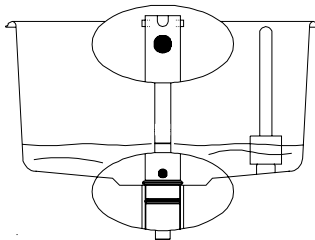


CLOSED

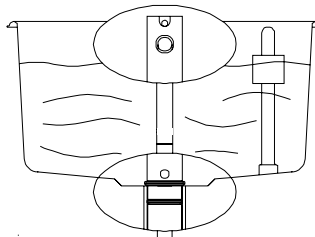
Look through top hole in tube — you should see the inner white plastic tube (regulator) blocking the opening.



Closed — empty hopper



Closed — mix at level line



Open — full hopper

1. Make sure that your hands and forearms and all freezer assemblies are sanitized.
2. Install the mix feed tube assembly in the hopper. Push all the way down and make sure the regulator is in the **"CLOSED"** position.
3. Fill the hopper with mix to the mix level line on the mix tube assembly.
4. Place an empty container under the dispense head. While holding the plunger open, place the regulator in the **"OPEN"** position, and allow the mix to *force out all remaining sanitizer*. When pure mix appears, close the plunger.
5. Remove the mix feed tube and allow the remaining mix in the hopper to flow into the cylinder.
6. Reinstall mix feed tube assembly in the hopper and push all the way down. Make sure the regulator is in the **"CLOSED"** position.

Important:

Failure to completely remove sanitizer or water from the freezing cylinder before placing in "AUTO" will damage the freezer.

7. Turn selector switch to "AUTO" to begin the freezing process. Fill the hopper with mix AND install hopper cover.
8. Keep the regulator in the **"CLOSED"** position until you are ready to dispense the first serving. When ready, approximately 15-20 minutes, move regulator to the **"OPEN"** position.
9. During long idle periods, the regulator should be closed — **but remember — when dispensing product, make sure that the mix feed regulator is open at all times.** If not open, the flow of mix will be restricted causing the product to freeze up. This condition could cause damage to the freezer. Do not allow lubricant or frozen product to block the hole in the tube, as this will have the same result.

ELECTRO FREEZE®

Limpieza e higienización de los congeladores

Soft Serve Serie Compacta de Electro Freeze®

Las instrucciones de limpieza e higienización explicadas en esta hoja de instrucciones son necesarias para mantener el congelador limpio e higienizado. El congelador debe desmontarse, limpiarse, montarse, lubricarse e higienizarse todos los días para asegurar un funcionamiento óptimo del congelador y el mejor producto.

Esta hoja de instrucciones no está destinada a utilizarse en lugar del Manual del operador. Use la información siguiente como ayuda sólo después de haber leído detalladamente el manual del operador del congelador Electro Freeze y haber realizado los procedimientos de limpieza e higienización descritos en el mismo.



PRECAUCIÓN

Para evitar choques eléctricos o el contacto con piezas en movimiento, compruebe que todos los interruptores estén en la posición "OFF" (apagada) y que esté desconectado el principal suministro de alimentación.

LIMPIEZA

1. Desmonte los componentes del congelador según las instrucciones del manual del operador.
2. Prepare un fregadero de tres compartimentos para limpiar, enjuagar e higienizar componentes que retire del congelador según los códigos sanitarios correspondientes. Debe mezclarse el higienizador según las instrucciones del fabricante para que rinda una solución de cloro disponible de 100 partes por millón (PPM). (por ejemplo: Stera-Sheen Green Label).
3. Lave, enjuague, higienice y seque al aire todas las piezas retiradas del congelador. Para higienizar correctamente, deben dejarse las piezas en el higienizador durante 5 minutos.
4. Deben limpiarse las piezas siguientes con el cepillo adecuado que se suministra con el congelador.
 - a. El tubo alimentador de mezcla, la perforación principal del regulador y los agujeros cruzados.
 - b. Las aberturas del émbolo de la cabeza, los orificios del émbolo central, las cavidades de la barra de asiento, los surcos de las juntas tóricas, los aros de montaje de las boquillas surtidoras y los orificios de mezcla.
 - c. El sello del eje, el buje, los surcos de las juntas tóricas de los émbolos, la boquilla y el flotador.
 - d. El eje del batidor dentro del collarín frontal y el agujero en la brida posterior.
5. Limpie el congelador con las soluciones de limpieza aprobadas y cepille el interior de la tolva y alrededor del tubo sensor de nivel de la mezcla.
6. Cepille totalmente la tolva y el orificio alimentador de mezcla al cilindro.
7. Cepille el interior del cilindro, comprobando que quede limpia la pared posterior del cilindro.
8. Cepille el interior del tubo de drenaje.

HIGIENIZACIÓN

1. Monte y lubrique los componentes del congelador según las instrucciones del manual del operador.
2. Lávese e higienice las manos y antebrazos.
3. Prepare 7,6 litros (2 galones) de solución higienizadora en un recipiente. Debe mezclarse la solución higienizadora según las instrucciones del fabricante para que rinda una solución de cloro disponible de 100 PPM (partes por millón) (p. ej.: Stera-Sheen u otra equivalente).
4. Compruebe que el conjunto del tubo alimentador de mezcla y el flotador de mezcla estén en el fondo del receptáculo de la tolva.
5. Vierta la solución higienizadora dentro del receptáculo de la tolva. Con un cepillo limpio, friegue las paredes de la tolva, el sensor de nivel de mezcla, el orificio de alimentación de mezcla desde la tolva al cilindro, el interior del tubo alimentador de mezcla y el flotador de mezcla.
6. Instale el flotador de mezcla en el sensor de nivel de mezcla y lave el interior de la tapa de la tolva.
7. Cuando el cilindro se haya llenado de solución higienizadora, reconecte la alimentación, gire el interruptor selector a la posición "CLEAN" (limpiar) y deje que funcione el batidor durante 5 minutos. Durante este período, revise si hay fugas alrededor de la cabeza, el émbolo y el tubo de drenaje.
8. Coloque un recipiente vacío bajo la cabeza surtidora y drene la solución abriendo el émbolo para dejar que se vierta el contenido del cilindro y la tolva. Abra y cierre el émbolo por lo menos 10 veces durante el drenaje para higienizar el área del orificio de la cabeza surtidora.
9. Cuando la solución higienizadora se haya drenado del congelador, gire el interruptor selector a la posición "OFF" (apagada).

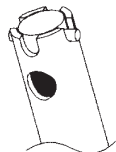
¿Tiene algún problema? Diríjase a su distribuidor local autorizado o al depto. de servicio del fabricante del congelador, Electro Freeze Service Department, 2116 Eighth Avenue, East Moline, IL 61244, (303) 755-453 o FAX (309) 755-9858

CEBADO DEL CONGELADOR



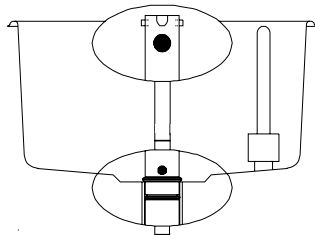
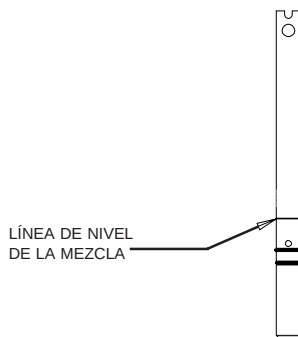
ABRIR

Mire por el agujero superior del tubo – debe poder ver totalmente a través de él.

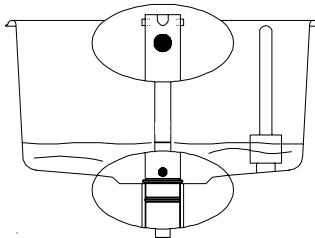


CERRADO

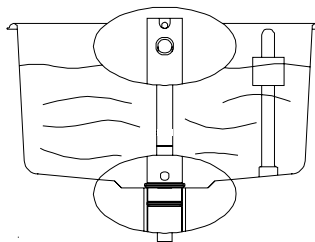
Mire por el agujero superior del tubo – debe ver el tubo plástico blanco interior (regulador) que bloquea la abertura.



Cerrado – tolva vacía



Cerrado – mezcla en la línea de nivel



Abierto – tolva llena

1. Compruebe que tenga las manos y antebrazos, así como todos los componentes del congelador debidamente higienizados.
2. Instale el conjunto del tubo alimentador en la tolva. Empuje totalmente hacia abajo y asegúrese de que el regulador esté en la posición “**CERRADA**”.
3. Llene la tolva con la mezcla hasta la línea de nivel de la misma del conjunto del tubo de mezcla.
4. Coloque un recipiente vacío bajo la cabeza surtidora. Sosteniendo el émbolo abierto, coloque el regulador en la posición “**ABIERTA**” y deje que la mezcla fuerce hacia afuera todo el higienizador restante. Cuando aparezca mezcla pura, cierre el émbolo.
5. Retire el tubo alimentador de mezcla y deje que la mezcla restante en la tolva fluya dentro del cilindro.
6. Vuelva a instalar el conjunto del tubo alimentador en la tolva y empuje totalmente hacia abajo. Compruebe que el regulador esté en la posición “**CERRADA**”.

Importante:

Si no se elimina totalmente el higienizador o el agua del cilindro congelador antes de colocar la unidad en “AUTO**” (automático) se dañará el congelador.**

7. Gire el interruptor selector a “**AUTO**” para comenzar el proceso de congelación. Llene la tolva con mezcla **E** instale la tapa de la tolva.
8. Mantenga el regulador en la posición “**CERRADA**” hasta que esté listo para surtir la primera porción. Cuando esté listo, aproximadamente 15-20 minutos, mueva el regulador a la posición “**ABIERTA**”.
9. Durante largos períodos inactivos, debe cerrarse el regulador – **pero recuerde que al surtir el producto hay que asegurarse de que esté abierto el regulador alimentador de mezcla en todo momento.** Si no está abierto, el flujo de mezcla estará restringido y hará que se congele el producto. Esta condición podría ocasionar daños al congelador. No deje que el lubricante o el producto congelado bloquee el agujero del tubo, porque esto tendrá el mismo resultado.

ELECTRO FREEZE®

Electro Freeze® Compact Series Soft Serve Freezers 的清洁与消毒

本指导页中阐明的清洁和消毒规程是保持冷饮水机清洁、卫生的必要条件。用户应该每天将冷饮水机拆开、清洁、重新组装、加润滑剂以及消毒处理，确保所制饮品质量最佳，同时保持冷饮水机处于最佳工作状态。

用户不能将本指导页当作《操作手册》使用。用户必须阅读、理解并熟练掌握《Electro Freeze 冷饮水机操作手册》中的清洁和消毒的详细程序，以下信息只起到辅助作用。



警告

要避免电击或接触运转零件的危险，请确保所有开关都处于“OFF”（关闭）位置，并且切断主电源。

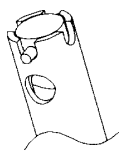
清洁方法

1. 请根据《操作手册》说明拆开冷饮水机部件。
2. 按照适用的卫生标准，准备一个有三个隔室的水槽，将冷饮机上拆下的零件进行清洁、漂洗和消毒。按照厂商说明配制 100 (PPM)（百万分之一百）的氯溶液作为消毒剂。（例如：Stera-Sheen Green Label）。
3. 洗涤、漂洗、消毒并风干从冷饮机上拆下的所有零件。为保证良好的消毒效果，请将零件在消毒剂中浸泡 5 分钟。
4. 请使用购置冷饮水机时所附带的适当的毛刷清洁以下零件。
 - a. 混合进液管、调节器主腔、以及交叉孔。
 - b. 顶部活塞开口、中心活塞通路、搅拌器条式空腔、O 型槽、分配喷嘴装配环以及混合通道。
 - c. 轴封、轴衬、活塞 O 型槽、喷嘴、和浮筒。
 - d. 前轴套内的搅拌器轴和后凸缘上的孔。
5. 使用符合要求的清洁剂清洁冷饮水机，并使用毛刷清洁漏斗内部以及混合液位传感器管周围部分。
6. 用毛刷彻底清洁漏斗和圆筒的混合进液孔。
7. 用毛刷清洁圆筒内部，一定要清洁圆筒的后壁。
8. 用毛刷清洁排液管的内部。

消毒方法

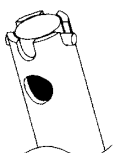
1. 请根据《操作手册》中的说明组装冷饮水机部件并加润滑剂。
2. 请用户将双手和前臂清洗干净并消毒。
3. 请在一个容器中准备 2 加仑（7.6 升）消毒溶液。消毒溶液必须是按照厂商说明配制的 100 (PPM)（百万分之一百）氯溶液（即，Stera-Sheen 或其它效果相当的溶液）。
4. 确保混合进液管组件和混合浮筒处于漏斗盘的底部。
5. 将消毒溶液注入漏斗盘中。使用清洁毛刷刷洗漏斗壁、混合液位传感器、从漏斗到圆筒的混合进液孔、混合进液管的内部以及混合浮筒。
6. 将混合浮筒安装在混合液位传感器上，并彻底清洗漏斗盖的内部。
7. 当圆筒充满消毒溶液时，请重新连接电源，将选择器开关放在“CLEAN”（清洁）位置，让搅拌器运转 5 分钟。在此过程中，检查分配头、活塞和排液管周围是否有泄露的地方。
8. 在分配头下放置一个空容器，打开活塞排出溶液，让圆筒和漏斗排空。在排空过程中打开和关闭活塞的次数不能少于 10 次，这样做的目的是为了给分配头的通路区域消毒。
9. 当冷饮水机中的消毒溶液全部排空时，请将选择器开关放在“OFF”（关闭）位置。

冷饮机的准备工作



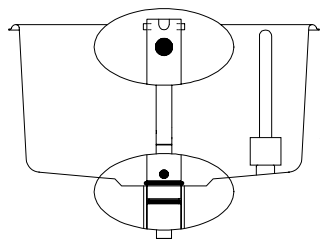
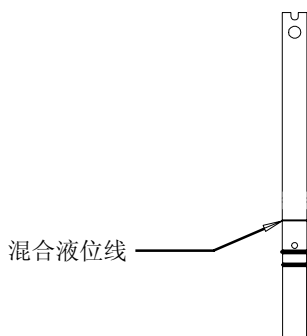
OPEN (打开)

从顶孔向管道中看 — 用户应该可以从上到下看穿管道。

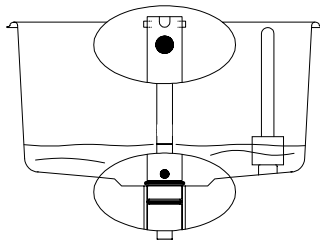


CLOSED (关闭)

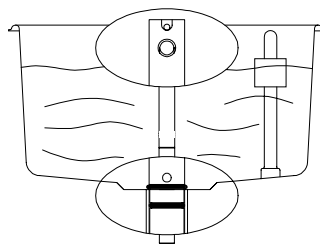
从顶孔向管道中看 — 用户应该可以看到其中的白色塑料管 (调节器) 挡住了通道。



Closed (关闭) — 漏斗是空的



Closed (关闭) — 混合液在液位线位置



Open (打开) — 漏斗是满的

1. 确保用户的双手和前臂以及冷饮机的所有组件都已消毒。
2. 将混合进液管组件安装在漏斗中。自上向下推动组件并确保调节器处在 **“CLOSED”** (关闭) 位置。
3. 用混合液填充漏斗，填充到混合管组件的混合液位线位置。
4. 在分配头下放置一个空的容器。使活塞处于打开状态，同时将调节器置于 **“OPEN”** (打开) 位置，让混合液将所有残留的消毒剂压出来。当纯净的混合液流出时，请关闭活塞。
5. 拆下混合进液管，让漏斗中残留的混合液流到圆筒中。
6. 将混合进液管组件重新安装到漏斗中并自上向下推动组件。确保调节器处在 **“CLOSED”** (关闭) 位置。

要点:

在制冷圆筒中的消毒剂或水没有完全排空前将开关置于 **“AUTO”** (自动) 位置，将损坏冷饮机。

7. 将选择器开关放到 **“AUTO”** (自动) 位置时将开始制冷过程。用混合液填充漏斗并装上漏斗盖。
8. 在用户准备配发第一批饮品前，请将调节器保持在 **“CLOSED”** (关闭) 位置。一切就绪后，大约经过 15 到 20 分钟，将调节器移动到 **“OPEN”** (打开) 位置。
9. 在长时间空置不用时，调节器应处于 **“CLOSED”** (关闭) 位置。但切记，在配发饮品时，请始终打开混合进液调节器。如果调节器没有打开，混合液的流动将受到限制，导致其冻结。出现这种情况可能损坏冷饮机。不要让润滑剂或冷却饮品阻塞管道上的开孔，因为这种情况也可能损坏冷饮机。

ELECTRO FREEZE