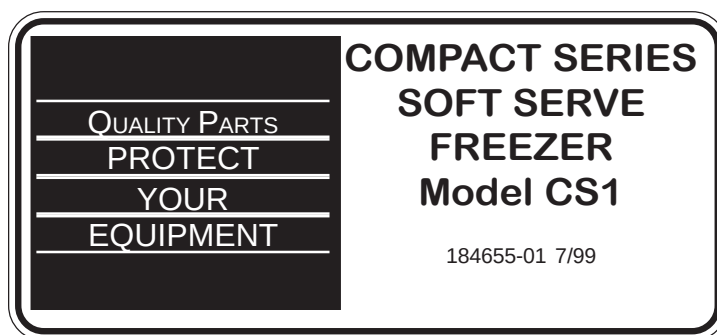


ELECTRO FREEZE®

REPLACEMENT PARTS MANUAL with ILLUSTRATIONS



**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.

Name: _____

Address: _____

Phone: _____

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.

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

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



Phone: (309) 755-4553

FAX: (309) 755-9858

PART II

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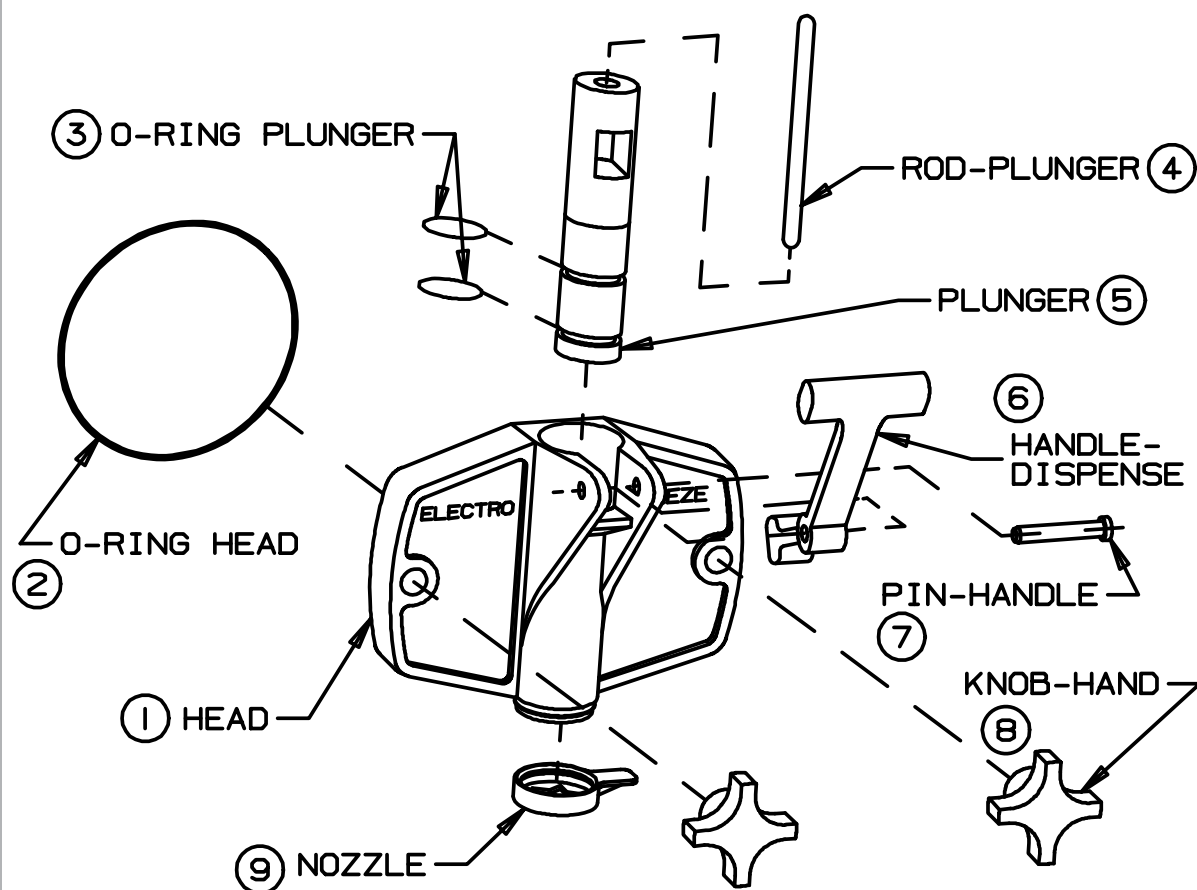


Figure 1 Head Assembly

Item	Part No.	Description
	115680	Head Ass'y. Complete (w/o #4 & #8)
1	137915	Head-Dispense
2	160623	O-Ring Head
3	160624	O-Ring Plunger
4	137763	Rod-Actuator
5	137807	Plunger-Dispense
6	196166	Handle-Dispense
6A	116323	Handle-Dispense Stainless Steel (Optional)
7	160265	Pin-Handle
8	162625	Knob-Hand
9	196167	Nozzle
	116323	Handle-Dispense Stainless Steel (not shown)
	117781	Head-Assy. Complete w/Stainless Steel Handles (not shown)

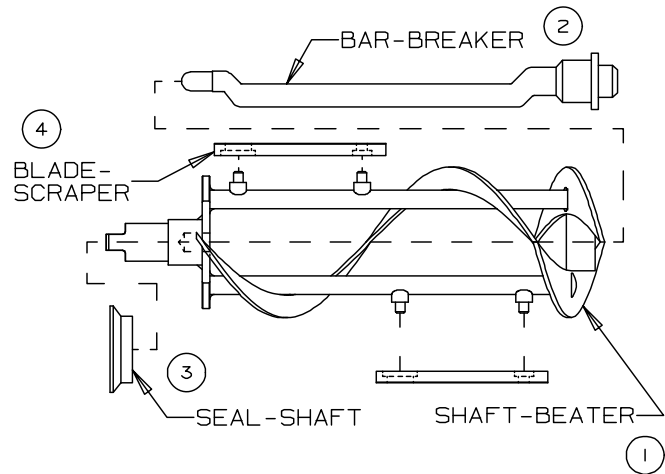


Figure 2 Beater Shaft Assembly

Item	Part No.	Description
1	115677	Shaft-Beater
2	138202	Bar-Breaker
3	113824	Seal Ass'y. Shaft
	160557	Cup-(Only)
	136025	Bushing-(Only)
4	137934	Blade-Scraper

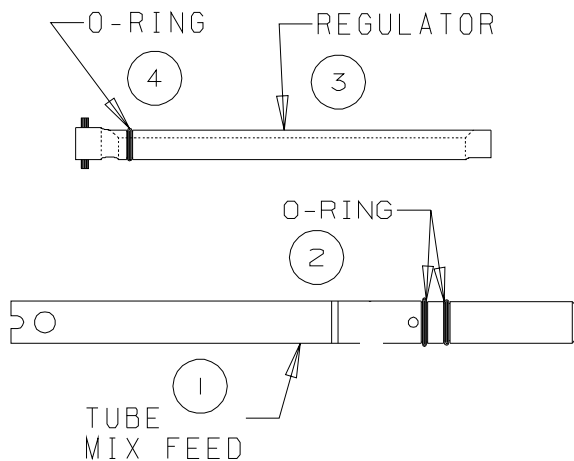


Figure 3 Mix Feed Tube Assembly

Item	Part No.	Description
*	116021	Tube Assembly - Mix Feed Complete
	117091	Tube Assembly - Mix Feed Complete - Two Hole (Shake)(Not Shown)
1	138129	Tube - Mix Feed
	138884	Tube-Mix Feed Two Hole (Shake)(Not Shown)
2	160626	O-ring - Mix Feed Tube
3	116005	Insert Assembly-Mix Feed Tube
4	160610	O-ring - Regulator

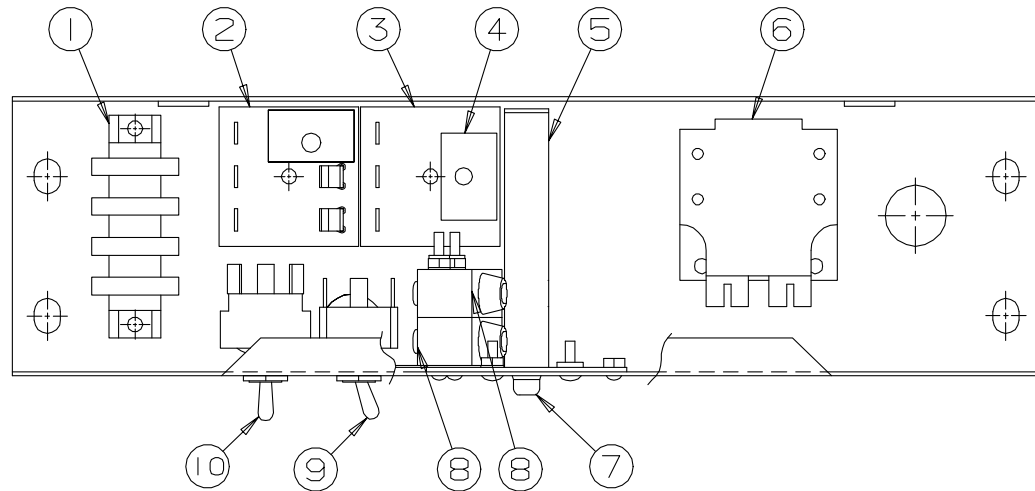
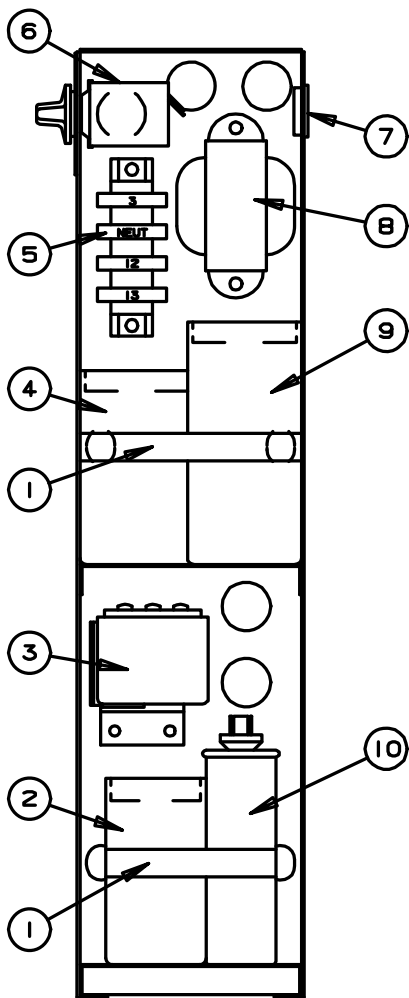


Figure 4 Switch Box

Item	Part No.	Description
1	150795	Strip-Terminal
2**	150252	Timer-115V/60 HZ (set at 40 sec.)
2A**	150253	Module
3*	150226	Timer-Recycle Night*
4*	150229	Potentiometer-VTSP (40 Min. Off)
5	116613	Switch-Assy Plunger
5A	162303	Spring-Plunger Rod
6	150339	Contactor Motor/Compressor 60 HZ
7	137760	Rod-Plunger Switch-(Actuator Button)
8	150456	1LS-Head Switch
8A	150456	2LS-Plunger Switch
9	150461	Switch-Toggle - DAY/NIGHT
10	150463	Switch-Toggle - AUTO/OFF/CLEAN
	*115858	Timer Assy-Night Cycle includes 150226, 150229
	**116441	Timer Assy and Module - includes 150252, 150253

Figure 5 Capacitor/Relay Box



Item	Part No.	Description
1	160743	Clamp-Capacitor
2	151426-01	Capacitor-Start Compressor 340-408 MFD 110VAC
3	151427-01	Relay-Compressor GE3ARR3A2M2
4	150293	Capacitor-Run Beater Motor 65MFD 240VAC
5	150795	Strip-Terminal
6	161202	Thermostat-Hopper
7	150778	Bushing
8	150286	Transformer-60 HZ115V PRI/24V Sec.
9	150294	Capacitor-Start Beater Motor 431-518MFD 165VAC
10	151421	Capacitor-Run Compressor 15MFD 370VAC

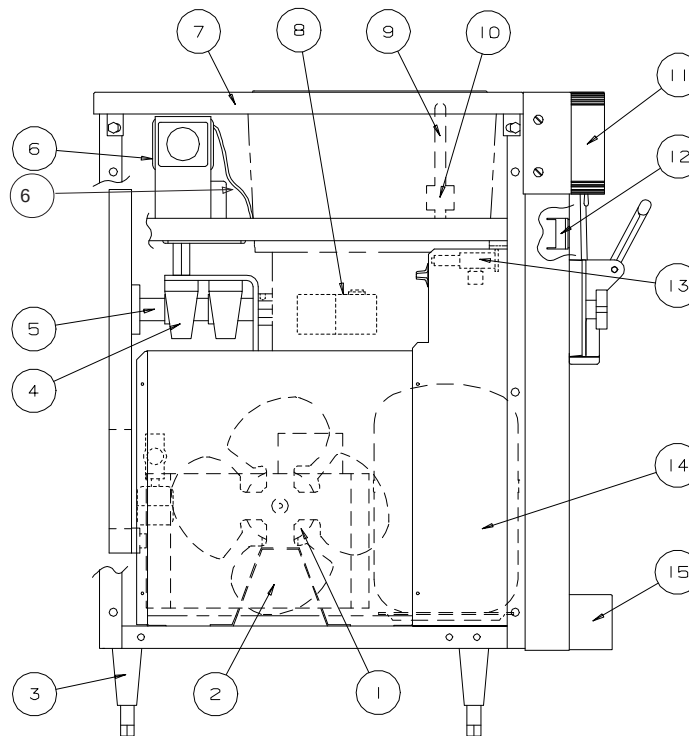


Figure 6 Model CS1 – Side View

Item	Part No.	Description
1	151074-01	Motor-Fan 35W 115V/60 HZ
2	159018	Blade-Fan 10 in. 32°
2A	160104	Nut-Hex (Fan Blade)
2B	162611	Bracket-Fan Motor
3	115800	Leg 4" Adj.
4	153030	Bearing-Pillow Block
5	115767	Shaft Assembly-Drive (Drive Shaft, Cap-Coupling, Set Screw)
6	161215	Control - Electronic Thermostat
	162605	Knob
6A	161216	Sensor - 10K Thermistor
7	115697	Panel Assembly - Hopper and Top
8	155435	Valve-Solenoid 115V/60 HZ
9	161300	Switch-Float Level Sensor
10	161301	Float-Level Sensor
11	196203	Panel-Switch Box w/EF Decal (Trimstrip Assembly) Black
12	150541	Light-Add Mix
13	155452	Valve-Auto Expansion (Sweat)
	155407	Valve-Auto Expansion (Flare)
14	116824	Compressor Ass'y.120/60/1
	151421	Capacitor-Run
	151426-01	Capacitor-Start
	151427-01	Relay-Start/Run
15	196204	Tray-Drip Black
	196205	Insert-Tray Black

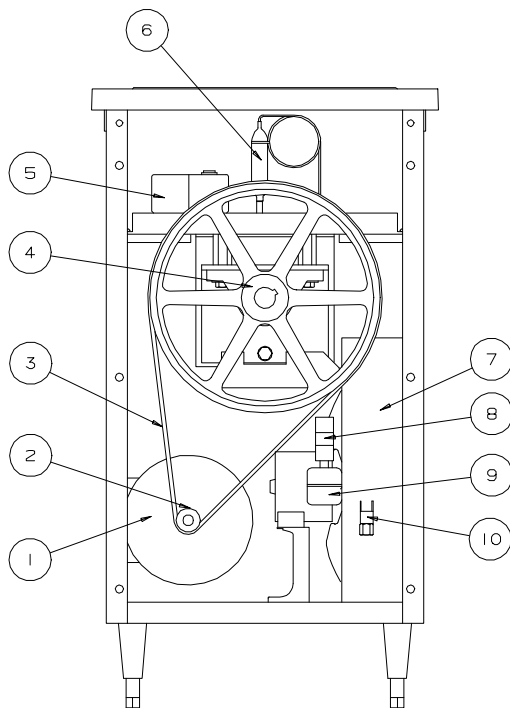


Figure 7 Model CS1– Rear View

Item	Part No.	Description
1	151056	Motor-Beater 115/60/1
	150857	Board-Triac 50/60 HZ
	150856	Switch-Start 60 HZ
	150294	Capacitor-Start
	150293	Capcitor-Run
2	153637	Pulley-Driver
2A	153323	Key-1/4" x 1 1/2"
2B	160495	Screw-Set
3	153177	Belt-V
4	153638	Pulley-Driven
4A	153322	Key-3/16" X 1 1/2"
4B	160033	Screw-Set
5	155435	Valve-Solenoid 115V/60 HZ
6	155433	Tube-Capillary w/Strainer
7	155126	Condenser-Air
8	155459	Glass-Sight (Sweat)
9	155063	Drier-Filter 1/4" (Sweat)
10	155450	Cut-Out High Pressure
	155452	Valve-Automatic Expansion (Sweat) (not shown)
	155407	Valve-Automatic Expansion (Flare) (not shown)
	N.A.Use 155452	
	155419	Valve-Access (not shown)

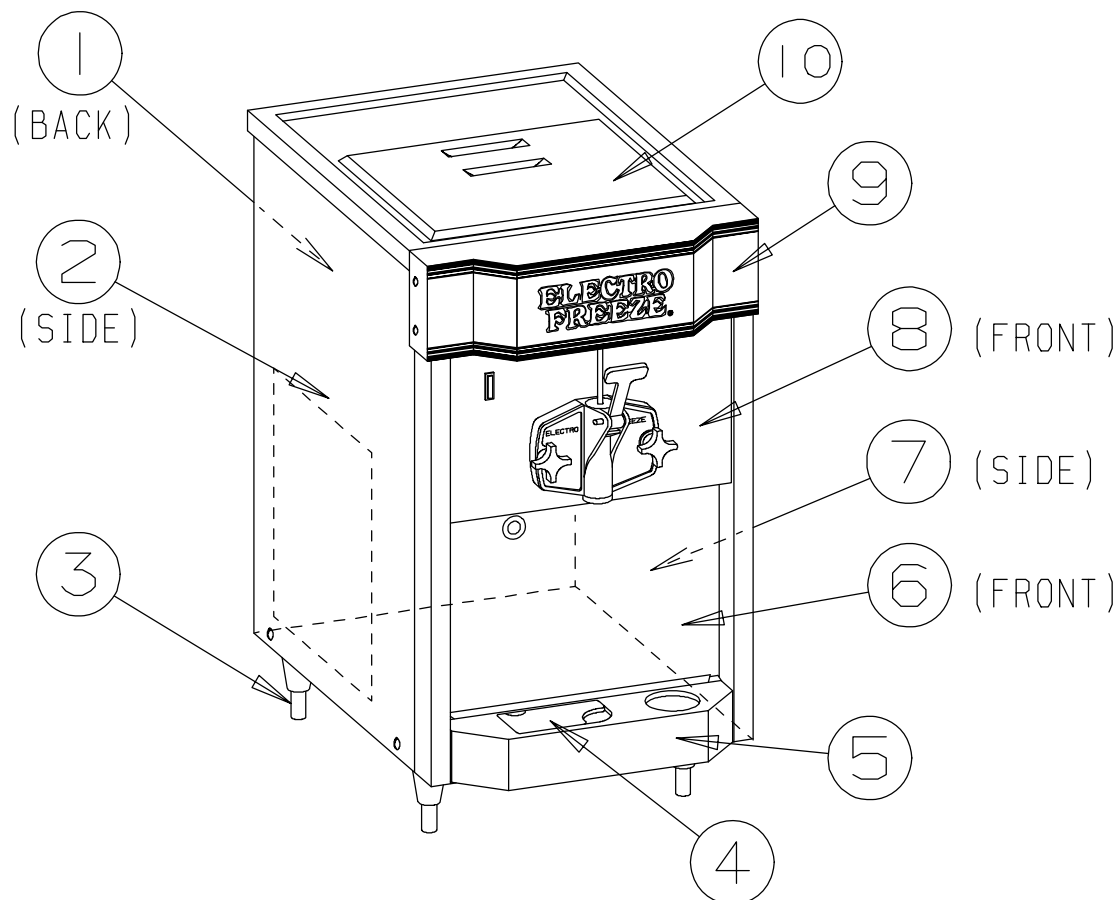


Figure 8 Model CS1 – Panel View

Item	Part No.	Description
1	137768	Panel-Back
2	137767	Panel-Side-L.H.
	160028	Screw-Panels
3	115800	Leg-Adjustable
4	196205	Insert-Drip Tray Black
5	196204	Tray-Drip Black
6	115696	Panel-Front
	165242	Decal-Cleaning Instructions
	159064	Grommet-Drain Tube
7	137766	Panel-Side-R.H.
8	137772	Panel-Front-Dispense
9	196203	Cover-Switch Box (Trimstrip Assembly) Black
10	196206	Cover-Hopper Black
	115697	Panel Ass'y.-Hopper and Top

Accessories

PART No.	DESCRIPTION
158003	Brush-7/16 x 1-1/8 Double Handle
158004	Brush-4 inch w/ 36 inch Handle
158009	Brush-4 inch w/o Handle
158018	Brush-7/16-inch Dia. w/12-inch Handle
158019	Brush-9/16-inch Dia. w/30-inch Handle
158022	Brush-1/4-inch Dia. w/6 1/2-inch Handle
158026	Brush-1 inch Dia. 12 in. long
158037	Brush-1/4 inch Dia.18-1/2 OAL
158051	Cup-Overrun (use with P/N 158049 scale)
165025	Decal-Beater Warning
165242	Decal-Cleaning Instructions
165186	Decal-Electric Shock
165126	Decal-Panel Removal
165040	Decal-Pulley Removal
115813	Kit-O-Ring
158000A	Lubricant-Petrol Gel (per tube)
158014	Sanitizer-Stera-Sheen (per case)
158014A	Sanitizer-Stera-Sheen (per jar)
158049	Scale-Overrun
169374	Tool-O-Ring Removal

Alphabetized Parts List for Model CS1

IMPORTANT:

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

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)	
Bar - Alignment Tool	115776	1	BW-396	-
Bar - Breaker	196165	1	BW-396	- B2Y-317
Note: No longer available use 138202				
Bar - Breaker	138202	1	B2Y-318	-
Bearing-Pillow Block	153030	2	BW-396	-
Belt - Poly J	153157	1	BW-396	- C2X-603
Belt - Poly V	153176	1	C2X-604	- J2Y-2243
Belt - Poly V	153177	2	J2Y-2244	-
Blade - Fan (502)	162608	1	BW-396	- B2B-464
Blade - Fan (404A)	159018	1	B2B-465	-
Blade - Scraper	137934	2	IW-2115	-
Board - Triac Beater Motor 50/60 HZ	150857	1	BW-396	-
Box - Assy. Cap. and Components (404A)	115709	1	B2B-465	-
Bracket - Fan Motor	162611	1	BW-396	-
Brush - Mix Feed Assy. 1/4"Dia. x 18-1/2"	158037	1	BW-396	-
Brush - Cylinder 4" w/ 36" handle	158004	1	BW-396	-
Brush - Double End	158003	1	BW-396	-
Brush - Drain Tube 1" dia. 12" long	158026	1	BW-396	-
Bushing - Only - Shaft Seal	136025	1	BW-396	-
Clamp - Capacitors - Relay Box	160743	2	BW-396	-
Compressor Assy. 120/60/1 (404A)				
w/Start Components	116824	1	BW-396	-
Capacitor - Run 15MFD 370VAC 50/60HZ	151421	1	BW-396	-
Capacitor-Start 40-408MFD 110VAC				
50/60HZ	151426-01	1	BW-396	-
Relay - Start 60 HZ GE 3ARR3 A2M2	151427-01	1	BW-396	-
Compressor -Assy (502) (NLA)	115840	1	BW-396	- B2B-464
Capacitor - Run	151421	1	BW-396	- B2B-464
Capacitor - Start	151426	1	BW-396	- B2B-464
Relay - Compressor	151427	1	BW-396	- B2B-464
* As Required ** Items Included in O-Ring Kit No. 115813 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available				

Use only original or authorized replacement parts with this freezer

Alphabetized Parts List for Model CS1

IMPORTANT:

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

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)	
Condenser - Assy Air (502 and 404A)	115700	1	BW-396	-
Condenser - Air	155126	1	BW-396	-
Shroud - Fan	137739	1	B2B-465	-
Contact Compressor/Beater 120V 60 HZ	150339	2	BW-396	-
Control - Assy and Bracket	116442	1	E2A-1186	-
Control - Electronic Temperature	161215	1	E2A-1186	-
Bracket - Thermostat	138419	1	E2A-1186	-
Connector - 3/8 x 90°	150705	1	E2A-1186	-
O-ring	160554	2	E2A-1186	-
Knob -Rd Dial	162605	1	E2A-1186	-
Decal -Thermostat	165026	1	E2A-1186	-
Cord - Molded w / Plug	150604	1	BW-396	-
Cover - Cap/Relay Box	137745	1	BW-396	-
Cover - Electrical Box 2x4	150739	1	BW-396	-
Cover - Electrical Box	137759	1	BW-396	-
Cover - Hopper Black	196206	1	F2D-1635	-
Cover - Hopper Gray (NLA) Use 196206	196171	1	BW-396	F2D-1605
Cut-out - High Pressure (502)	155405	1	BW-396	B2B-464
Cut-out - High Pressure (404A)	155450	1	B2B-465	-
Cup - Only - Shaft Seal	160557	1	BW-396	-
Decal - 6" Air Flow	165119	1	BW-396	-
Decal - Beater	165025	1	BW-396	-
Decal - Blade Installation	164031	1	IW-2115	-
Decal - Cleaning Instructions	165242	1	BW-396	-
Decal - Electric Box Danger	165000	1	BW-396	-
Decal - Electric Shock	165186	1	BW-396	-
Decal - Operating Instructions	165004-03	1	BW-396	-
Decal - Panel Removal	165126	3	BW-396	-
Decal - Pulley Removal	165040	1	BW-396	-
Decal - Refrigerant 502	165118	1	BW-396	B2B-464
* As Required ** Items Included In O-Ring Kit No. 115813 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available				

Use only original or authorized replacement parts with this freezer

Alphabetized Parts List for Model CS1

IMPORTANT:

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

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)	
Decal - Refrigerant 404A	165114	1	B2B-465	-
Decal - Trimstrip (Electro Freeze)	165217-02	1	BW-396	-
Decal - Trimstrip (Self Service)	165220	1	Optional	
Diagram - Wiring	137788	1	BW-396	-
Drain Tube Assy.	115663	1	BW-396	-
Drier - Filter (502)	155463	1	BW-396	- B2B-464
Drier - Filter (404A)	155459	1	B2B-465	-
Float - Level Sensor	161301	1	BW-396	-
Glass - Sight (502) (Sweat)	155460	1	BW-396	- B2B-464
Glass - Sight (404A) (Flare)	155459	1	B2B-465	-
Grommet - Compressor Mtg.	151431	4	BW-396	-
Grommet - Drain Tube	159064	1	BW-396	-
Guide Assy - Plunger Rod	115684	1	BW-396	-
Handle - Dispense Plastic	196166	1	BW-396	-
Handle - Dispense Stainless Steel	116323	1	Optional	
Head - Dispense	137915	1	BW-396	-
Head - Dispense Assy.	115680	1	BW-396	-
Handle - Dispense Plastic	196166	1	BW-396	-
Head - Dispense	137915	1	BW-396	-
Nozzle - Dispense	196167	1	BW-396	-
O-Ring - Head	160623	1	BW-396	-
O-Ring - Plunger	160624	2	BW-396	-
Pin - Handle	160265	1	BW-396	-
Plunger - Dispense	137807	1	BW-396	-
* As Required ** Items Included in O-Ring Kit No. 115813 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available				

Use only original or authorized replacement parts with this freezer

Alphabetized Parts List for Model CS1

IMPORTANT:

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

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)	
Head - Dispense Assy.	117781	1	BW-396	-
Handle - Dispense Assy. Stainless Steel	116323	1	BW-396	-
Head - Dispense	137915	1	BW-396	-
Nozzle - Dispense	196167	1	BW-396	-
O-Ring - Head	160623	1	BW-396	-
O-Ring - Plunger	160624	2	BW-396	-
Pin - Handle	160265	1	BW-396	-
Plunger - Dispense	137807	1	BW-396	-
Heater - Assy Thermostat	115710	1	BW-396	- D2A885
Insert - Drip Tray Black	196205	1	F2D-1635	-
Insert - Drip Tray Gray (NLA) Use 196205	196170	1	BW-396	- F2D-1605
Key - Pulley Driven 3/16" sq x 1-1/2"	153322	2	BW-396	-
Key - Pulley Driver - 1/4" sq x 1-1/2"	153323	2	BW-396	-
Kit - Control Assy and Bracket	116443	1	E2A-1186	-
Kit-O-Ring (**Item included in Kit)	115813	1	BW-396	-
Kit-Solenoid Valve	155437	A/R	BW-396	-
Knob - Hand	162625	2	BW-396	-
Label - Clean/Off/Auto	165145	1	BW-396	-
Label - Day/Night	165145	1	BW-396	-
Leg 4" Adj.	115800	4	BW-396	-
Light - Add Mix	150541	1	BW-396	-
Lubrication - Petrol Gel	158000A*	A/R	BW-396	-
Manual - CS1 Instruction - Operators	184655	1	BW-396	-
Motor - Beater 115/60/1	151056	1	BW-396	-
Board - Triac 50/60 HZ	150857	1	BW-396	-
Capacitor - Run 60 HZ				
65MFD 240VAC	150293	1	BW-396	-
* As Required ** Items Included In O-Ring Kit No. 115813 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available				

Use only original or authorized replacement parts with this freezer

Alphabetized Parts List for Model CS1

IMPORTANT:

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

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)	
Capacitor - Start 60 HZ 431-518MFD 165VAC	150294	1	BW-396	-
Switch - Start 60 HZ	150856	1	BW-396	-
Motor - Fan Cond. 35w 115V - 50/60 HZ	151074-01	1	BW-396	-
Nozzle - Dispense	196167	1	BW-396	-
Nut - Speed #10-24	159132	2	BW-396	-
Nut - Speed 1/4-20	160117	12	BW-396	-
O-Ring - Head	160623	1**	BW-396	-
O-Ring - Kit (**Items included in Kit)	115813	1	BW-396	-
O-Ring - Plunger	160624	2**	BW-396	-
O-Ring - Regulator Mix Feed	160610	1**	BW-396	-
O-Ring - Tube Mix Feed	160626	2**	BW-396	-
Panel - Assy Front	115696	1	BW-396	-
Panel - Dispense	137772	1	BW-396	-
Panel - Assy. Hopper and Top	115697	1	BW-396	-
Panel - Rear	137768	1	BW-396	-
Panel - Side LH***	137767	1	BW-396	-
Panel - Side RH***	137766	1	BW-396	-
Panel - Switch Box w/EF Decal-Black	196203	1	F2D-1635	-
Panel - Switch Box w/EF Decal-Grey (NLA) Use 196203	115777	1	BW-396	- F2D-1605
Pin - Handle	160265	1	BW-396	-
Plug - Hopper	137923	1	BW-396	- G2X-1666
Plunger - Dispense	137807	1	BW-396	-
Pulley - Driven - J Groove	153613	1	BW-396	- C2X-603
Key - 3/16" x 1-1/2"	153322	1	BW-396	-
Screw Set - 5/16-18 x 3/8	160033	2	BW-396	-
Pulley - Driven - V Groove	153630	1	C2X-604	- J2Y-2243
* As Required ** Items Included in O-Ring Kit No. 115813 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available				

Use only original or authorized replacement parts with this freezer

Alphabetized Parts List for Model CS1

IMPORTANT:

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

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)
Key - 3/16" x 1 1/2"	153322	1	C2X-604 -
Screw Set - 5/16-18 x 3/8	160033	2	C2X-604 -
Pulley - Driven - 2V Groove	153638	1	J2Y-2244 -
Key - 3/16" x 1 1/2"	153322	1	J2Y-2244 -
Screw Set - 5/16-18 x 3/8	160033	2	J2Y-2244 -
Pulley - Driver - J Groove	137797	1	BW-396 - C2X-603
Key - 1/4" x 1-1/2"	153323	1	BW-396 -
Screw Set	160033	2	BW-396 -
Pulley - Driver - V Groove	153629	1	C2X-604 -
Key - 1/4" x 1-1/2"	153323	1	C2X-604 -
Screw Set - 5/16-18 x 3/8	160033	2	C2X-604 - J2Y-2243
Pulley - Driver - 2V Groove	153637	1	J2Y-2244 -
Key - 1/4" x 1-1/2"	153323	1	J2Y-2244 -
Screw Set - 1/4-20 x 1/4	160495	2	J2Y-2244 -
Regulator - Mix Feed Tube	116005	1	G2X-1666 -
Relay - Start Compressor 60 HZ	151427-01	1	BW-396 -
Rod - Plunger Switch (Actuator Button)	137760	1	BW-396 -
Rod-Plunger	137763	1	BW-396 -
Sanitizer - Sample	158013	A/R*	BW-396 -
Sanitizer - 4 lb. Jar	158014A	A/R*	BW-396 -
Screw - Panels	160028	6	BW-396 -
Screw - Trimstrip Assy.	155980	4	BW-396 -
Seal - Assy. Shaft	113824	1**	BW-396 -
Cup - Only - Shaft	160557	1	BW-396 -
Bushing - Shaft Seal	136025	1	BW-396 -
Shaft - Assy Beater - w/o Blades NLA	115677A	1	BW-396 - IW-2114
NOTE: No longer available. Use 115677 and (2) 137934 Blades as replacement			
Shaft - Assy. Beater - Blade Style	115677	1	IW-2115 -
* As Required ** Items Included In O-Ring Kit No. 115813 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Use only original or authorized replacement parts with this freezer

Alphabetized Parts List for Model CS1

IMPORTANT:

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

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM – TO)	
Shaft - Assy - Drive	115767	1	BW-396	-
Shroud - Fan	137739	1	BW-396	-
Sight - Glass	155460	1	BW-396	-
Sight - Glass (404A)	155459	1	BW-396	-
Spring - Plunger Rod	162303	1	BW-396	-
Strip - Terminal	150795	1	BW-396	-
Stud - Cylinder	114341-06	2	BW-396	-
Switch - Assy. Plunger	116613	1	BW-396	-
Switch - Float Level Sensor	161300	1	BW-396	-
Switch - Head	150456	1	BW-396	-
Switch - Heater	150456	1	BW-396	-
Switch - Plunger	150456	1	BW-396	-
Switch - Toggle "AUTO-OFF-CLEAN"	150463	1	BW-396	-
Switch - Toggle "DAY-NIGHT"	150461	1	BW-396	-
Thermostat - Cylinder	161203	1	BW-396	- E2A-1233
Thermostat - Cylinder	161215	1	E2A-1239	-
Thermostat - Hopper	161202	1	BW-396	-
Timer - 12 Sec. Delay 120V 60 HZ	150207	1	GW1723	-
Timer Assembly	116441	1	E2A-1239	-
Timer .5-60 sec. DOB	150252	1	E2A-1239	-
Module - Plug on Vari-time	150253	1	E2A-1239	-
Disconnect - Female	150717	1	E2A-1239	-
Timer - Night Cycle 120V 60 HZ				
TSDR4490SAZ	150225	1	BW-396	- KW-2557
Potentiometer 10-1000				
(0-16 min. off)-VTP5K	150228	1	BW-396	- KW-2557
<i>NOTE: Above timer and potentiometer no longer available.</i>				
<i>Replace with new style Assy. 115858.</i>				
Timer - Assy. Night Cycle 120V 60 HZ Assy.	115858	1	KW-2558	-
* As Required ** Items Included in O-Ring Kit No. 115813 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available				

Use only original or authorized replacement parts with this freezer

Alphabetized Parts List for Model CS1

IMPORTANT:

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

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Potentiometer 0-10 (0-40 min. off) VTP5P	150229	1	KW-2558 -
Timer - Recycle TSDR64905A4	150226	1	KW-2558 -
Timer - Recycle-Day (Optional)			
30 Sec. On/15 Min. off	150227	1	Optional
Transformer 240 PRI/24 sec. 50/60 HZ	150286	1	BW-396 -
Tray - Drip Black	196204	1	F2D-1635 -
Tray - Drip Gray (NLA) Use 196204	196169	1	BW-396 - F2D-1605
Trimstrip Assy.- Panel Black-Switch Box w/EF Label	196203	1	F2D-1635 -
Trimstrip Assy. - Panel Gray-Switch Box w/EF Label (NLA) Use 196203	196168	1	BW-396 - F2D-1605
Tube - Assembly with Regulator	116021	1	G2X-1667 -
Tube - Assembly with 2 Hole (Shake)	117091	1	G2X-1667 -
Tube - Capillary w/Strainer	155433	1	BW-396 -
Tube - Mix Feed w/Shut Off Position	137714A	1	BW-396 - HW-1898
Note: No longer available. Use 116021 regulator style as replacement.			
Tube - Mix Feed NLA	137714	1	EW-1899 - G2X-1666
Note: No longer available. Use 116021 regulator style as replacement.			
Tube - Mix Feed - 2 Hole (Shake)	138884	1	G2X-1667 -
Tube - Mix Feed - Regulator Style	138129	1	G2X-1667 -
Valve - Access	155419	1	B2X-331 -
Valve - Auto Exp.(Flare)	155407	1	BW-396 - B2B-464
Valve - Auto Exp. 404A (Sweat)	155452	1	B2B-465 -
Valve - Solenoid 115V/60 HZ	155435	2	BW-396 -
* As Required ** Items Included In O-Ring Kit No. 115813 *** LH or RH — Left or right hand is determined as you face the front of freezer. NLA No Longer Available			

Use only original or authorized replacement parts with this freezer

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

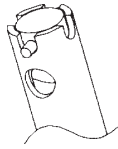
1. Disassemble the freezer components in accordance with the Operator's Manual instructions.
2. Prepare a three-compartment sink for cleaning, rinsing, and sanitizing parts removed from the freezer per applicable health codes. The sanitizer should be mixed according to the manufacturer's instructions 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.

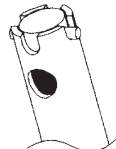
Problem? Contact your local authorized distributor or the freezer manufacturer, Electro Freeze Service Department, 2116 Eighth Avenue, East Moline, IL 61244, (309) 755-4553 or FAX (309) 755-9858.

PRIMING THE FREEZER



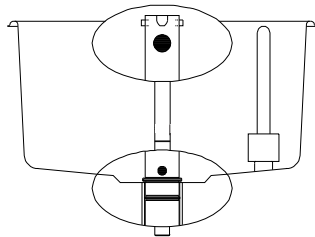
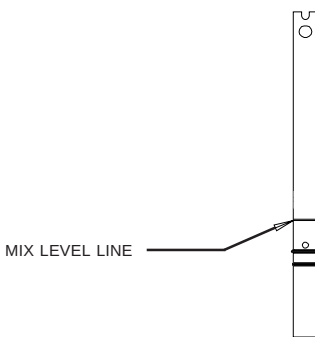
OPEN

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

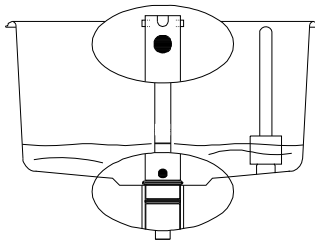


CLOSED

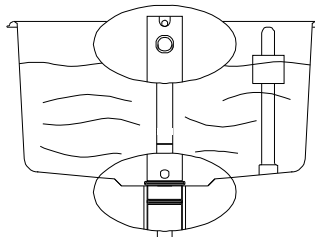
Look through top hole in tube — you should see the inner white plastic tube (regulator) blocking the opening.



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®

MODEL CSI



PART NO.
160610 ④

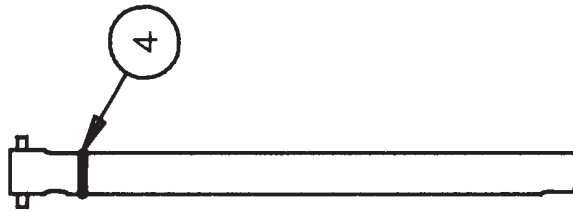
PART NO.
160623 ①



PART NO.
160624 ②



PART NO.
160626 ③

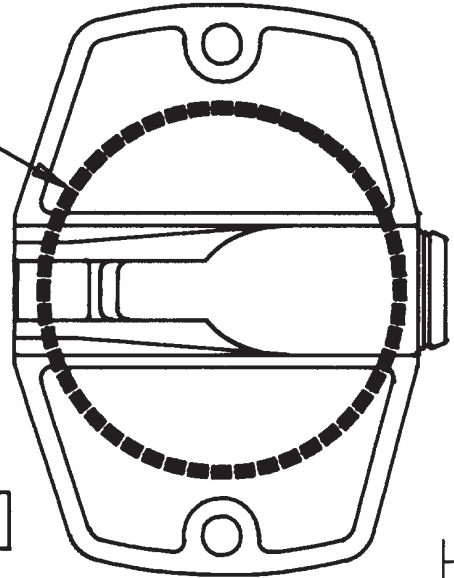


DO NOT
LUBRICATE #3

2

3

1



O-RING CHART

PH. NO. 309-755-4553

H.C. DUKE & SON, INC.

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