

ELECTRO FREEZE®

Replacement Parts Manual with Illustrations

FREEDOM 360°
Series

**Soft Serve Twist Freezer
Model 4000EP**

184988-01 - 6/08

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
(800) 755-4545

FAX: (309) 755-9858

E-mail: service@hcduke.com



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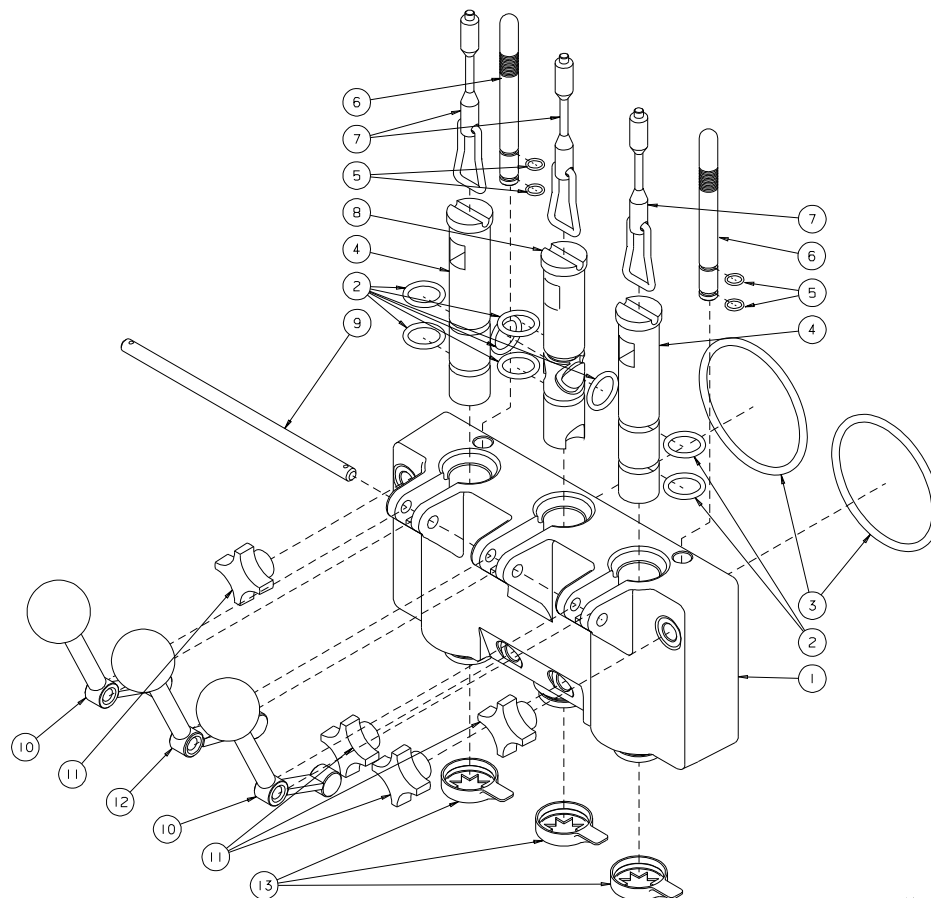
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Use of unapproved parts will void warranty.



M01612

Figure 1 Head Assembly

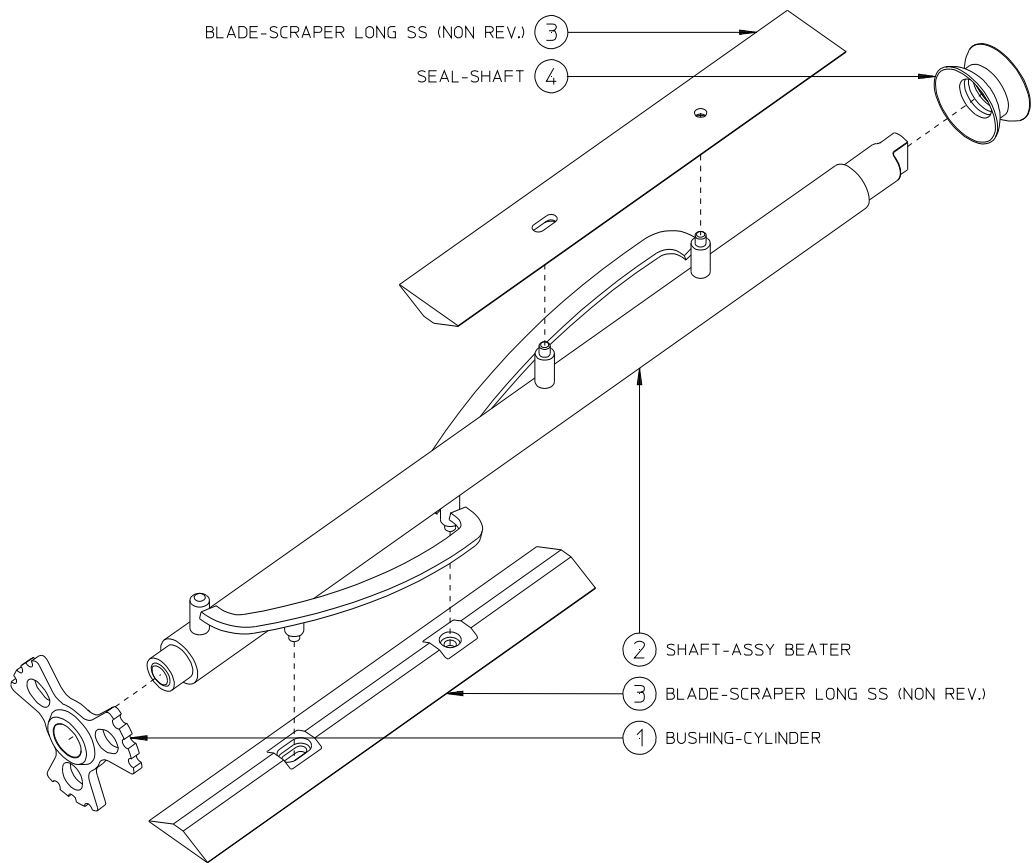
Item	Part No.	Description
*	HC120013	Head-Assy.Dispense
1	HC120012	Head-Assy. w/actuators
2	HC160501	O-Ring (Plunger)
3	HC160583	O-Ring (Head)
4	HC137174	Plunger-Side Self Dispense
5	HC160610	O-Ring (Air Plug)
6	HC138149	Plug-Air Bleed
7	HC116089	Push Rod-Assy. Plunger Switch
8	HC138009	Plunger-Dispense Center
9	HC160269	Pin-Handl
10	HC110007	Handle-Assy. Dispense (Side) includes HC162629Knob-Ball 3/8-16 THD Black
11	HC162625	Knob-Hand
12	HC114808	Handle-Assy. Dispense Center includes HC162629Knob-Ball 3/8-16 THD Black
13	HC196185	Nozzle-Serrated

* Includes all items above except #3, 7 and 11.

HC114341-05Stud-Assy. Cylinder 3-15/16 (not shown)

HC116410Kit-Dispense Head Switch (not shown)

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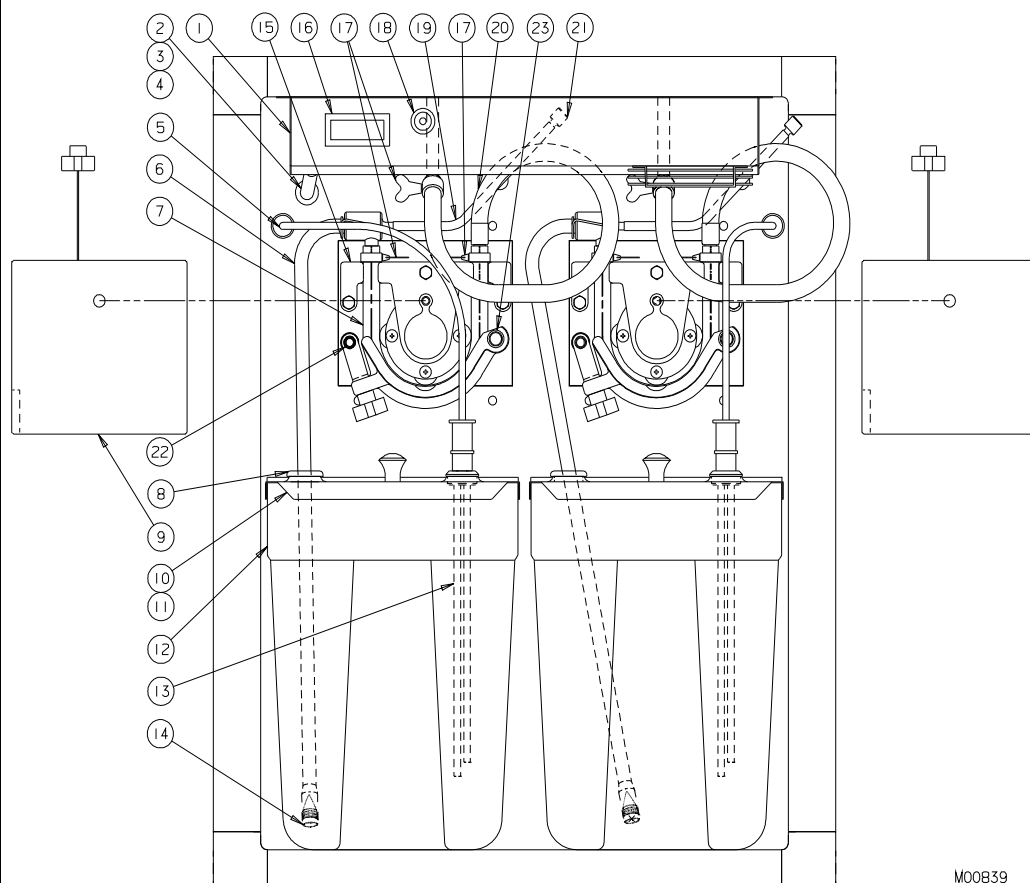
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Figure 2 Beater Shaft Assembly

Item	Part No.	Description
1	HC196085	Bushing-Cylinder
2	HC113438	Shaft-Assy. Beater
3	HC137334	Blade-Scraper Soft Serve
4	HC160567	Seal-Shaft (1 piece)
or	HC111875	Shaft-Assy. Seal (3 piece) (alternate)
	HC160500	O-ring (Seal)
	HC133098	Washer-Shaft Seal
	HC160557	Seal-Beater Shaft

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AIR METERS	
Meter No.	Part No.
9	163423
10	163424
11	163425
12	163426
13	163421
13.5	163421-05
14	163427
14.5	163427-05
15	163428
15.5	163428-05
16	163429
16.5	163429-05
17	163430
17.5	163430-05
18	163431
18.5	163431-05
19	163432
19.5	163432-05
20	163433
20.5	163433-05
21	163434
21.5	163434-05
22	163435
22.5	163435-05
23	163436
24	163437
25	163438
26	163439
28	163440
30	163441
31	163442



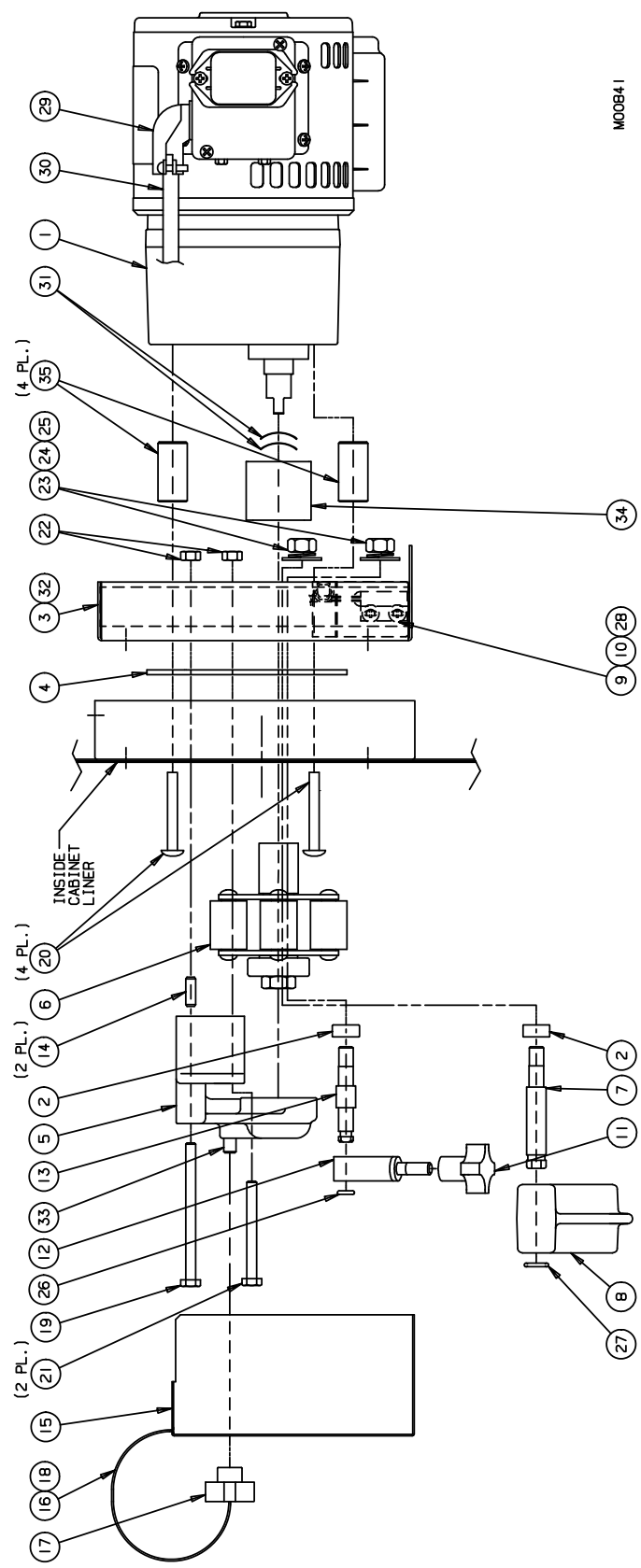
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Figure 3 Cabinet Parts

Item	Part No.	Description	Item	Part No.	Description
1	HC117129-01	Shroud-Assy. Evaporator includes HC150532 ... Cord-Assy. Male Plug HC151105 ... Fan-Intake (Cabinet) HC151076 ... Guard-Fan Open HC150509 ... Switch-Door Push Button HC161004 ... Thermometer-Barrel	10	HC117553	Cover-Assy. Front Mix Tank
1A	HC155111	Coil-Evaporator	11	HC140446	Cover-Rear Mix
1B	HC150533	Cord-Assy. Female Plug	11A...	HC140446-01	Cover-Blank Rear (CARVEL ONLY)
2	HC160738	Clamp-Hose Drain	12	HC196100	Tank-Mix 6 Gallon
3	HC196068	Tubing-3/8 ID x 1/2 OD	13	HC115397	Probe-Assy. Mix Level 10-3/4" includes HC137120 Base- Probe Mtg.
4	HC138919	Tube-Drain Support	14	HC199032-01	Duckbill-Inlet RM MTS
5	HC150537	Cordset-Mix Level Probe	15	HC118751	MT-Assy CAB Redline (See Explode View-Fig. 5)
5A	HC150536	Receptacle-Molded Level Sensor	16	HC161004	Thermometer-Barrel
6	HC118842	Tube-Assy. Pickup includes HC118765 ... Port-Assy. Inlet Mix/Air HC118836 ... Tube-Assy. Mix Inlet HC162324 ... Clip-Tube Retainer HC160502 ... O-ring	17	HC116065	Clamp-Assy. Soft Hose 5/8
7	HC138836	Hose-Transfer Red Line	18	HC150509	Switch-Door Push Button
8	HC199033	Boot-Mix Tube	18A .	HC118597	Actuator-Assy. Door Switch
9	HC119023	Cover-Assy. RMT CAB	19	HC138170-02	Tube-Air 7-1/2 in.
			20	HC116094	Hose-Assy. Mix Braided
			21		Meter-Air (Order by meter number)
			22	HC160628	O-ring (Swing Clamp)
			23	HC160612	O-ring (Roller Shoe)

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Figure 4 Mix Transfer System — RMT (sheet 1 of 2)



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Figure 4 Mix Transfer System — RMT (Sheet 2 of 2)

Item	Part No.	Description
*	HC118751	MT-Assy. CAB Red Line
1	HC119918	Kit-Gearmotor Replacement Model RMT includes motor and HC150512 Capacitor-Start w/Bleed HC139046-01 . Gauge-Shaft Alignment RMT HC151408 Protector-Auto Reset Motor HC150893 Switch-Start Solid State (Relay) HC160173 Washer-Spring Wave SST
2	HC138800	Spacer-Swing Arm
3	HC118764	Faceplate-Assy. MTS
4	HC139746	Plate-Backup MTS
5	HC138783-01	Support-Roller Bearing
6	HC116009-01	Kit-Roller (Complete)
7	HC138797	Arm-Shoe Pivot
8	HC139751	Shoe-Roller
9	HC118763	Bracket-Assy. Switch Mtg.
10	HC118894	Kit-Cover Switch RMT Freezer includes HC160357 Screw-RDHM #4-40 x 1/4 STL HC160393 Washer-Flat #6 Brass
11	HC162622	Knob-Hand
12	HC138798	Clamp-Shoe Swing
13	HC138799	Arm-Swing Clamp
14	HC160338	Pin-Dowel 1/4 DIA x 3/4 SST
15	HC119023	Cover-Assy. RMT CAB includes HC165246 Decal-Warning Pressurized HC138889 Knob-Cover RMT HC138890 Lanyard-Wire HC160508 Sleeve-Cable Stop 3/64
16	HC138890	Lanyard-Wire
17	HC138889	Knob-Cover RMT
18	HC160508	Sleeve-Cable Stop 3/64
19	HC160465	Screw-HXHC 1/4-20 x 3-1/2 SST
20	HC160093	Screw-RHMS 1/4-28 x 2-1/4 SST
21	HC160464	Screw-HXHC 1/4-20 x 2-1/2 SST
22	HC159933	Nut-HXSF 1/4-40 SST
23	HC160169	Washer-Flat 3/8 SST
24	HC159927	Nut-HEX 3/8-16 SST
25	HC160170	Washer-Lock 3/8 SST
26	HC160628	O-ring (Swing Clamp)
27	HC160612	O-ring (Roller Shoe)
28	HC159939	Screw-HXSF 1/4-20 x 11/16 SST
29	HC150705	Connector-3/8 x 90°
30	HC118833	Cord-Assy. Motor
31	HC160173	Washer-Spring Wave SST
32	HC165524	Block-Insulation RMT
33	HC160386	Stud-5/16-18 x 3/4 SST
34	HC139756	Shield-Drip
35	HC138793	Spacer-Motor

Not Shown:

HC165246	Decal-Warning Pressurized
HC165048	Decal-Warning Rotating Parts

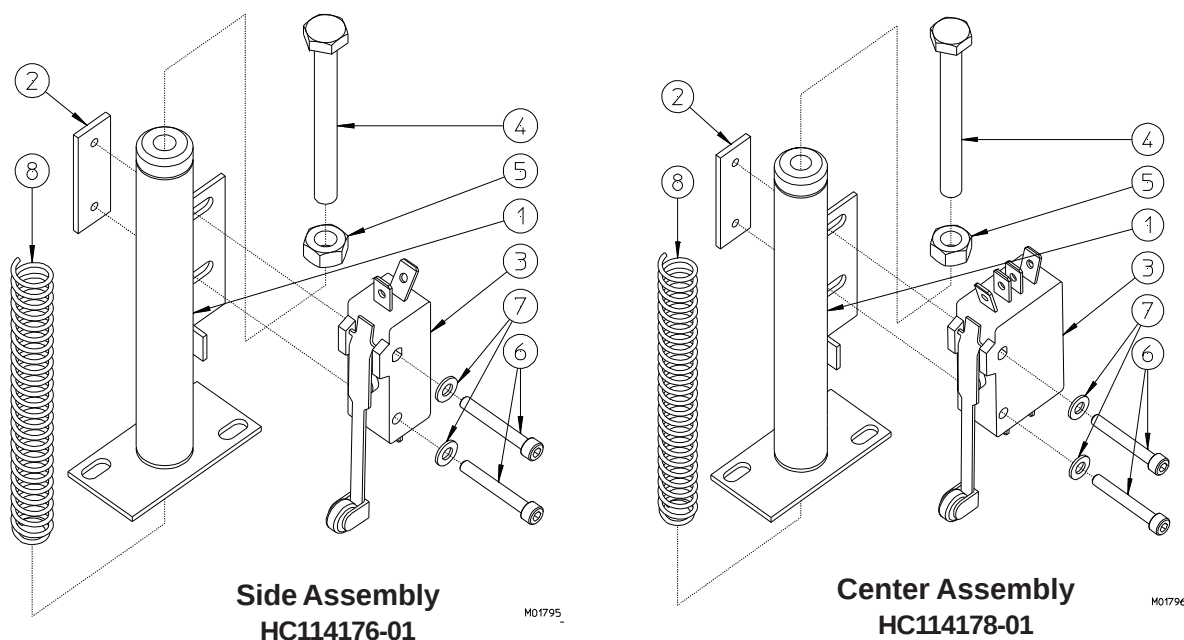
* Includes all items above.

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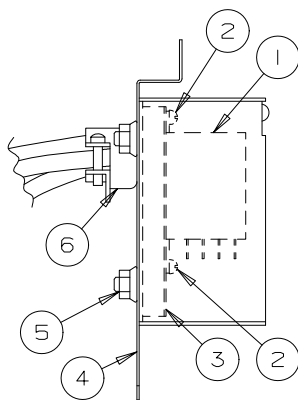


* Can be ordered as an assembly:
HC118842Tube-Assy. Pickup

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Figure 6 Switch Assemblies

Item	Part No.	Description
1	HC114174	Guide-Assy. Push Rod
2	HC140701	Plate-Switch
3	HC150477	Switch-Roller Actuator SPDT (Sides)
or	HC150478	Switch-Roller Actuator DPDT (Center)
4	HC159965	Screw-HXHM 1/4-20 x 2-1/2 ZN
5	HC160104	Nut-HEX 1/4-20 ZN
6	HC160381	Screw-SKHC #6-32x 1 BKOX
7	HC160393	Washer-Flat #6 Brass
8	HC162323	Spring-Compression MW ZN

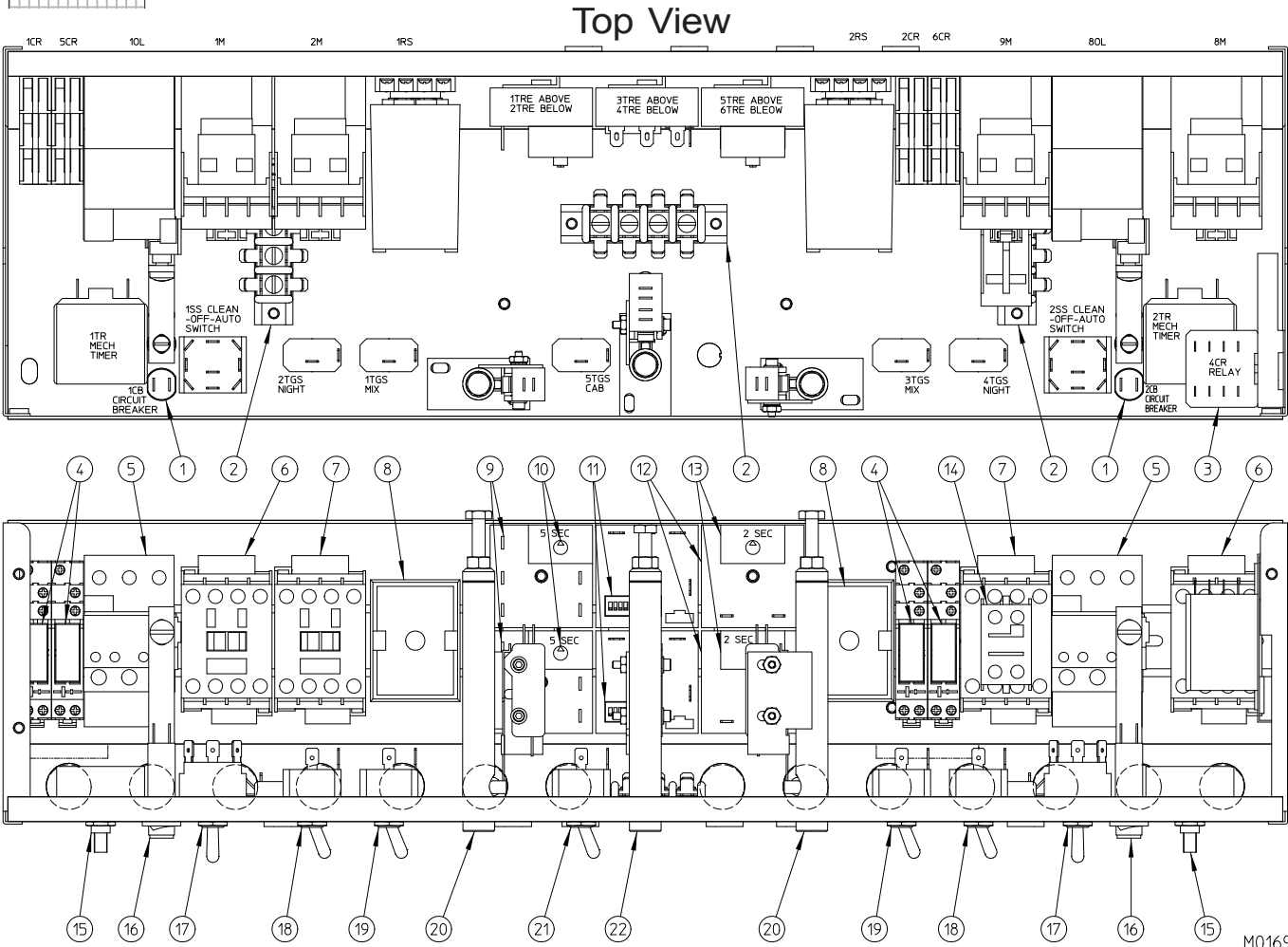
Figure 7 Relay Box — MTS

Item	Part No.	Description
*	HC120233	Box-Assy.Relay (Complete)
1	HC150343	Relay-Control Flange DPDT 24V
2	HC160308	Screw-RDHM #6-32 x 5/16 ZN
2A	HC160116	Nut-Speed #6-32 BKOX
3	HC138159	Bracket-Flange Relay Mtg.
4	HC139805	Support-MTS
5	HC159950	Screw-HXSf 1/4-20 x 1/2 ZN
5A	HC159951	Nut-HXSf 1/4-20 ZN
6	HC150828	Connector-1/2

* Includes item 1 through 6 plus box and wiring.

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Figure 8 Switch Box— sheet 1 of 2



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Use only original or authorized replacement parts with this freezer.
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Figure 8 Switch Box— sheet 2 of 2

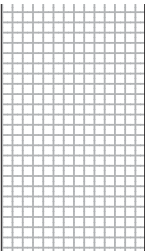
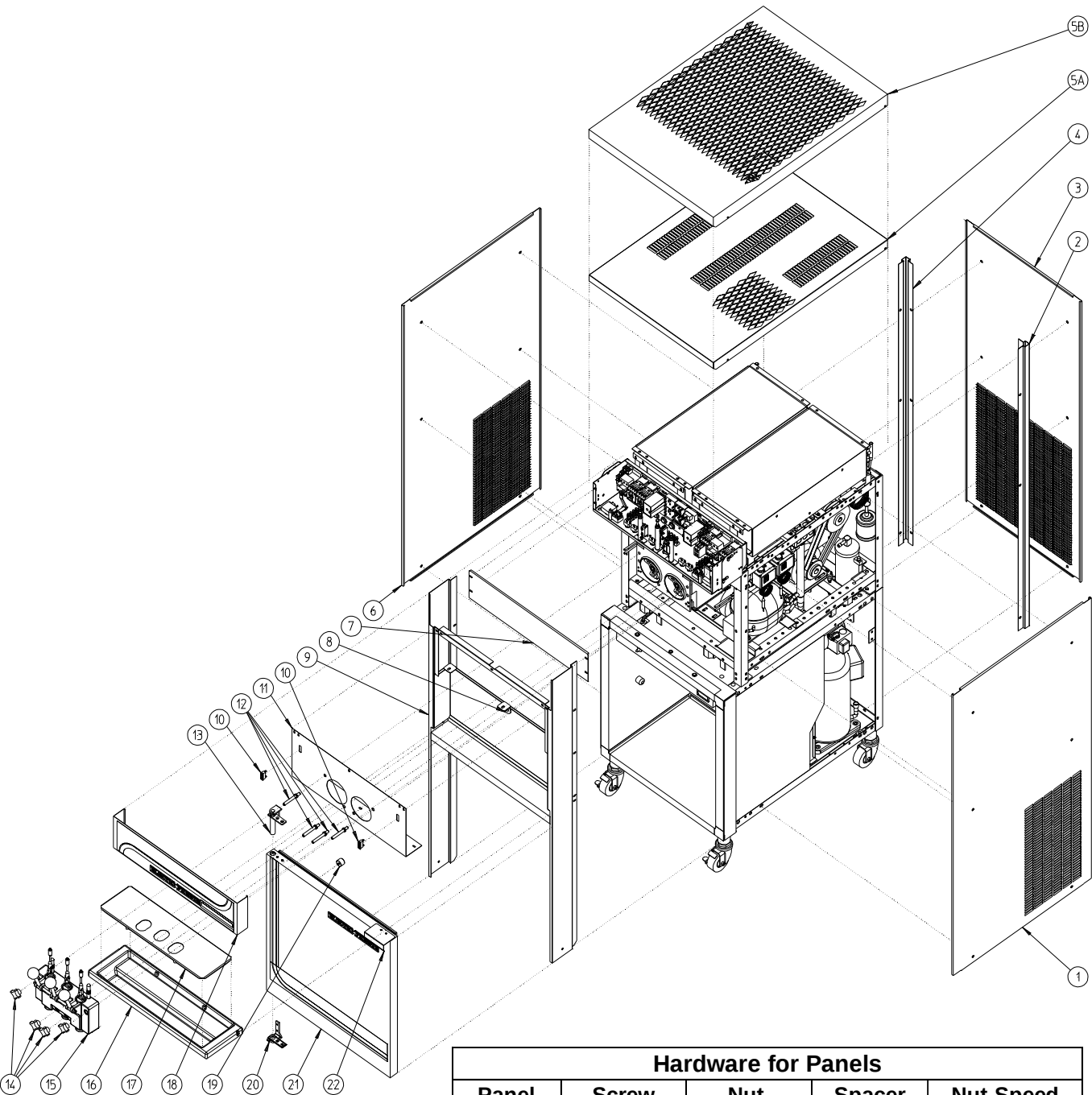
Item	Part No.	Description
1	HC150182	Breaker-Circuit 4A
2	HC150795	Strip-Terminal
3	HC150343	Relay-Control Flange DPDT 24V
4	HC150164	Relay-Miniature SPDT 24V Coil
4A	HC150165	Socket-Miniature Relay Clamp (4)
4B	HC150166	Clip-Miniature Relay Retaining (4)
5	HC120116	Relay-Assy. Overload 6-10A includes HC150173 Adaptor-Overload Din Rail HC150101 Adapter-Reset HC150176 Relay-Overload Bi-metal 1 & 3ph 6-10A
6	HC150136	Contactor-IEC 23A 24V Coil (Beater Motor)
6A	HC150133	Coil-Replace 24V (not shown)
7	HC150136	Contactor-IEC 23A 24V Coil (Compressor & Fan)
7A	HC150133	Coil-Replace 24V (Contactor)(not shown)
8	HC150278	Indicator-Mix Level 28V ADD MIX
8A	HC150541	Light-Indicator 28V ADD MIX (not shown)
8B	HC150119	Socket-Octal
8C	HC150120	Clip-Retainer (set of 2)
9	HC150261-01	Timer-DOB .5-45 Sec 24VAC
10	HC150186-01	Timer-Recycle ADJ 31S ON/31M 24-240V 1A
11	HC150560	Timer-.05-3S DOM 24V
12	HC150257	Module-Plug on VariTime
13	HC150146	Deck-Adder 1 NO 1 NC
14	HC150218	Timer-5 Minute
14A	HC162604	Knob-Timer
15	HC120119	Lever-Assy. Reset & Button 193TA includes HC159036 Button-Reset
16	HC150465	Switch-Toggle 3PDT Center OFF (Selector)
17	HC159235	Switch-Toggle SPST (DAY/NIGHT)
18	HC159235	Switch-Toggle SPST (Mix Transfer System)
19	HC114176-01	Switch-Assy. Self Closing Plunger (Sides)(See Figure 6) HC150477 Switch-Roller Actuator SPDT HC162323 Spring-Compression
20	HC159235	Switch-Toggle SPST (Cabinet)
21	HC114178-01	Switch-Assy. Self Closing Plunger (Center)(See Figure 6) HC150478 Switch-Roller Actuator DPDT HC162323 Spring-Compression

NOTE: Transformer Box See Figures 10 and 11.

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Figure 9 Panel Assembly — sheet 1 of 2



Hardware for Panels				
Panel	Screw	Nut-Speed	Spacer	Nut-Speed on Frame
Channel-Rear	HC160048	HC160117	n/a	n/a
Dispense	HC160076	HC159132	HC138456	n/a
Front	HC160076	HC159132	n/a	HC159067
Rear	HC160048	HC160114	HC138456	n/a
Side	HC159219	HC160114	HC138456	n/a
Top	HC160305	n/a	n/a	n/a
Trimstrip	HC160076	n/a	n/a	n/a
n/a – Not Applicable				

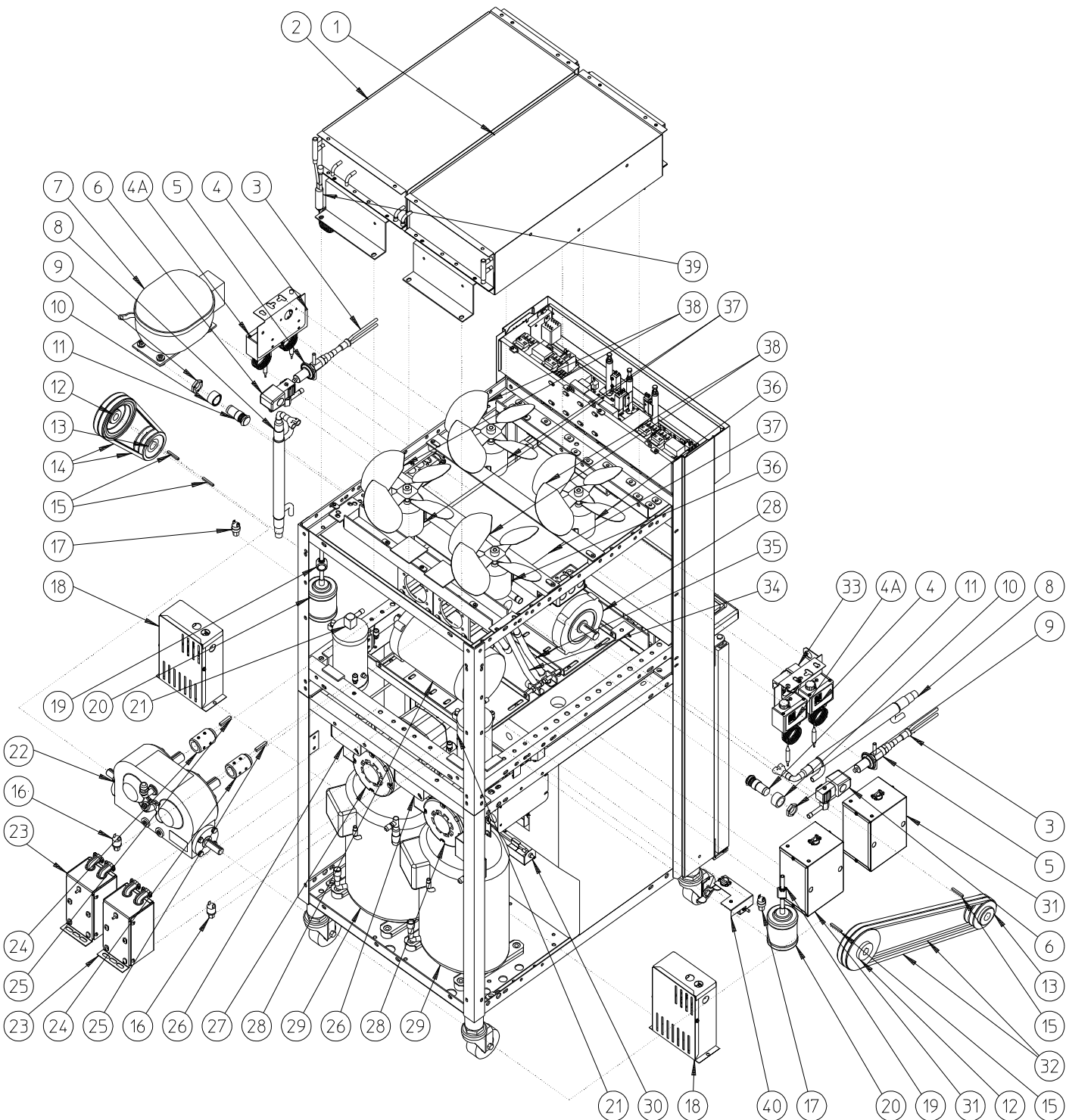
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Figure 9 Panel Assembly — sheet 2 of 2

Item	Part No.	Description
1.....	HC136216	Panel-Side-R.H.
2.....	HC130021	Channel-Rear R.H. (Corner)
3.....	HC136313	Panel-Rear (Air Cooled and Water Cooled)
or.....	HC138982	Panel-Upper Rear (Air Cooled Remote) (not shown)
	HC138983	Panel-Lower Rear (Air Cooled Remote) (not shown)
4.....	HC135254	Channel-Rear L.H. (Corner)
5A	HC114157-01 ...	Panel-Assy. Top (Water Cooled and Air Cooled Remote)
5B	HC116567	Panel-Assy. Top (Air Cooled)
6.....	HC136289	Panel-Side LH
7.....	HC116355	Cover-Assy. Electric Box
8.....	HC199016	Grommet-Rubber 5/8 ID
9.....	HC113985	Panel-Assy. Front includes HC159175 Catch-Bullet .268 OD x .343 ST (Button-Drip Tray) HC160289 Nut-Push Round .265
or.....	HC119153	Panel-Assy. Front (CARVEL ONLY) includes HC159175 Catch-Bullet .268 OD x .343 ST (Button-Drip Tray) HC160289 Nut-Push Round .265
10	HC150541	Light-Indicator 28V ADD MIX
10A ..	HC159401	Clip-Retainer Indicator Light
11	HC137297	Panel-Dispense
or.....	HC137643-01 ..	Panel-Dispense (CARVEL ONLY)
12	HC114341-05 ...	Stud-Assy. Cylinder 3-5/16 in.
13	HC162045	Hinge-Pivot 1-3/8 Top L.H. HC162052 Spring-L.H.
14	HC162625	Knob-Hand
15	HC120013	Head-Assy. Dispense (See Figure 1)
16	HC196108	Tray-Drip 26" Black
17	HC115132	Insert-Assy. Drip Tray 26" includes HC199030 Bumper-Rubber
18	HC120335	Trimstrip-Assy. includes HC164475 Decal-Platinum Series HC164183 Decal-Trimstrip Plat. Series 26" HC165414 Nameplate-EF Large
or.....	HC115292-05 ...	Trimstrip-Assy. SST 26 inch (CARVEL ONLY)
19	HC118597	Actuator-Assy. Door Switch
20	HC162046	Hinge-Pivot 1-3/8 Bottom L.H.
21	HC114260	Door-Assy. Complete 26 in. EF w/o hinges. Includes HC160563 Gasket-Magnetic (Door V-Groove) HC136199 Pull-Door
22	HC136199	Pull-Door (Handle-Cabinet)
Not Shown:		
	HC159050	Receptacle-Snap In
	HC150538-01 ..	Light-Round .500 White 24v (CARVEL ONLY)
L.H. = Left hand side of freezer when facing front. R.H. = Right hand side of freezer when facing front.		

Panel Decals & Labels	
Part No.	Description
HC165119	6" Air Flow
HC165025	Beater Warning
HC164031	Blade Installation
HC164113	Cleaning Instructions
HC165093	Clear Overlay
HC165013	CMT Patent
HC164183-02	Door Lower Plat. Ser. Stripe (Curved Horizontal)
HC164183-01	Door Platinum Series Stripe (Vertical)
HC164110	MTS Connect Red Line
HC164020	MTS Trimstrip LH
HC164021	MTS Trimstrip RH
HC164004-01	Operating Instructions
HC165126	Panel Removal
HC164475	Platinum Series (Words on Trimstrip)
HC165124	Top Air Discharge
HC164183	Trimstrip Plat. Series Stripe 26"
HC165246	Warning - Pressurized

Figure 10 Air Cooled Assembly (sheet 1 of 2)



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Use only original or authorized replacement parts with this freezer.
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Figure 10 Air Cooled Assembly (sheet 2 of 2)

Item	Part No.	Description	Item	Part No.	Description
1	HC155101	Condenser-Air Rifled (LH Side)	28	HC151052	Motor-2 HP 208/230/460-3-60
2	HC155102	Condenser-Air Rifled (RH Side & CAB)	or	HC119816	Kit-Motor & Cap 2HP 208-230 FE7109(1ph) includes
2A* ...	HC116565	Bracket-Assy. Front Air. Cond.			HC150244 ... Capacitor-Run
2B* ...	HC116564	Bracket-Assy. Rear Air Cond.			HC150294 ... Capacitor-Start
3	HC155494	Distributor-Refrigerant	29	HC119815	Compressor-Assy. (3 phase) includes
4	HC119989	Kit-Thermostat & Retainer (Day)			HC155054 ... Drier-Filter
4A	HC119989	Kit-Thermostat & Retainer (Night)	or	HC119508	Compressor-Assy. (1 phase) includes
5	HC155493	Valve-Automatic Expansion (Cylinder)			HC150362 ... Capacitor-Run
5A* ...	HC165531	Insulator-Expansion Valve			HC151460 ... Capacitor-Start
6	HC155491	Valve-Solenoid 24V			HC155054 ... Drier-Filter
7	HC120299	Kit-Compressor NL6.1MF (Cabinet) includes			HC151459 ... Relay-Comp.
		HC150942 ... Capacitor-Start	29A ...	HC165534	Insulation-Comp Wrap Bristol
		HC155498 ... Drier-Filter w/Access	29B ...	HC160419	Rivet-Ratchet Plastic
		HC151473 ... Relay-Comp. Start	30	HC120125	Pan-Assy. Condensate
8	HC155495	Heat Exchanger	31	-----	Capacitor Box (Beater Motor) (1ph) includes
9	HC116105	Nut-Assy. Pressure Switch			HC150244 ... Capacitor-Run
10	HC138827-01	Spacer-Curved Press Switch			HC150294 ... Capacitor-Start
11	HC118712	Kit-Pressure Switch 30 psi	32	HC153171	Belt-V (LH)
12	HC153625	Sheave-3/4 Bore 4.75 OD (Driven)	33	HC118813	Kit-CAB Thermostat (Cabinet)
		HC153322 ... Key-Drive	34	-----	Mix-Feed Seal Assy. (See Figure 13)
		HC160495 ... Screw-Sk Set	35	HC118594	Tube-Assy. Lower Hear
13	HC153626	Sheave-7/8 Bore 3.25 OD (Driver)	36	HC151077-01	Motor-Fan 50W 230V 50/60HZ
		HC153322 ... Key-Drive	36A* ...	HC116741	Bracket-Assy. Fan Motor
		HC160495 ... Screw-Sk Set	37	HC120129	Cylinder-Assy. Complete
14	HC153161	Belt-V (RH)	37A* ...	HC116410	Kit-Dispense Head Switch
15	HC153322	Key-Drive 3/16 SQ x 1-1/2	38	HC159023	Blade-Fan 11 in. 36°
16	HC120494	Kit-HPCO 155450 Field	39	HC120123	Tube-Assy Suction Cap Drier
17	HC120496	Kit-LPCO 155701 Field	or	*HC155399	Valve-Thermostatic Expansion (Cabinet Refrigeration System-134a)
18	-----	Box-Assy. Capacitor & Relay (1 ph) (Bristol Compressors) contains			*HC155498 ... Drier-Filter w/Access
		HC150362 ... Capacitor-Run	40	HC150461	Switch-Toggle DPDT (Voltage Setting Switch)
		HC151460 ... Capacitor-Start			
		HC151459 ... Relay-Compressor			
19	HC155059	Glass-Sight			
20	HC155054	Drier-Filter			
21	HC155071	Receiver-3 lb. 3/8 ID Sweat w/o valve			
22	HC153341	Reducer-Gear (See Figure 12)			
23	-----	Transformer Box			
		HC150181 ... Transformer-CL2 208/240 PRI/24 SEC			
		HC150180 ... Control-Voltage Mntr			
24	HC111964	Coupling-Assy. 1 Inch Drive			
25	HC153323	Key-Drive 1/4 SQ x 1-1/2			
26	-----	Box-Assy. Relay 24v Rear Connector (See Figure 7)			
27	HC119918	Kit-Gearmotor Replacement Model RMT (Mix Transfer) (See Figure 4)			

Not Shown:

HC161216

HC115004-01 .

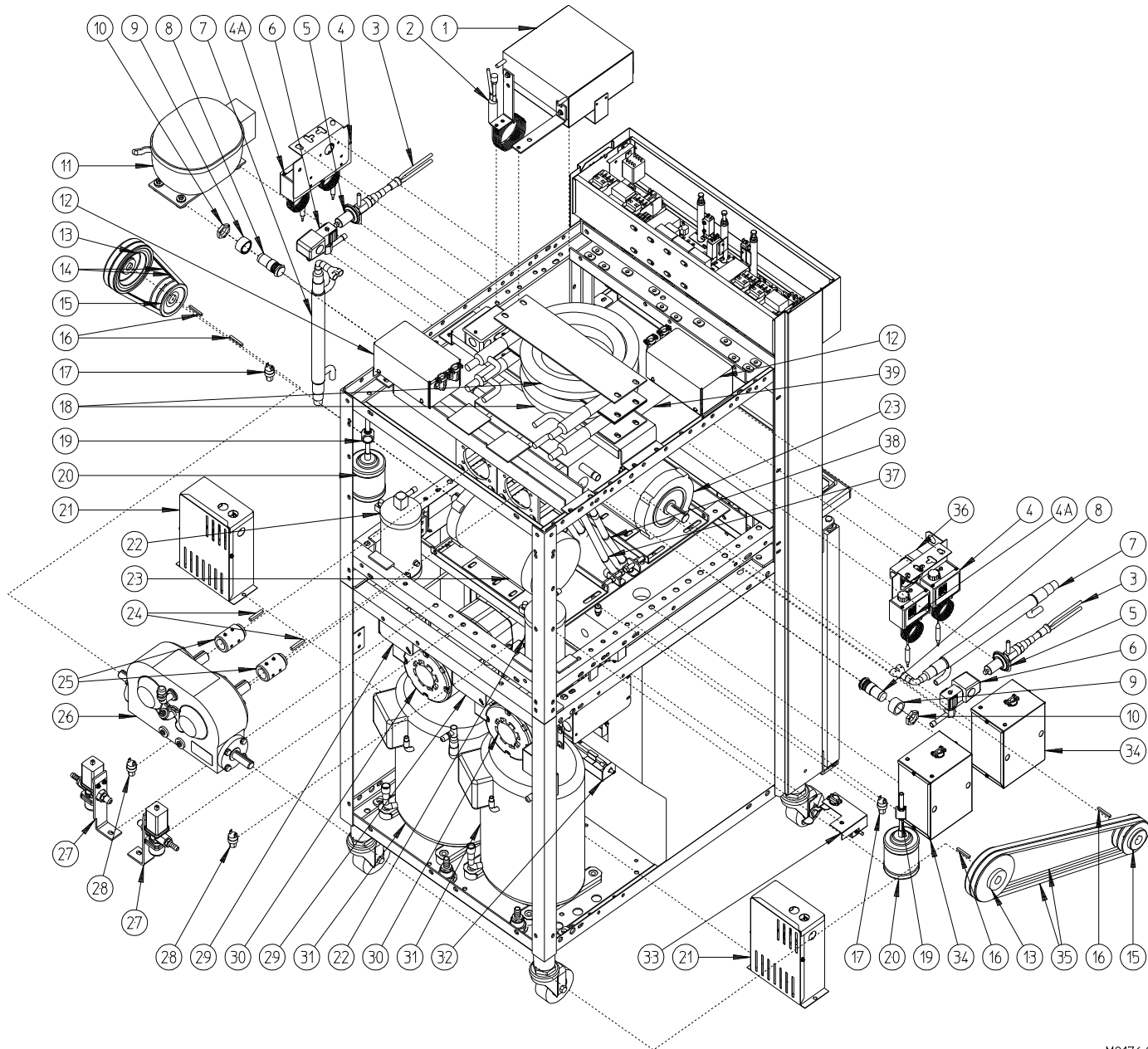
HC115004-02 .

* Items not shown

LH or "A" Side = Left hand side of the freezer as you face the front.
 RH or "B" Side = Right hand side of the freezer as you face the front.

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 Use of unapproved parts will void warranty.**

Figure 11 Water Cooled & Air Cooled Remote Assembly (sheet 1 of 2)



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ACR = Air Cooled Remote

WC = Water Cooled

LH or "A" Side = Left hand side of the freezer as you face the front.

RH or "B" Side = Right hand side of the freezer as you face the front.

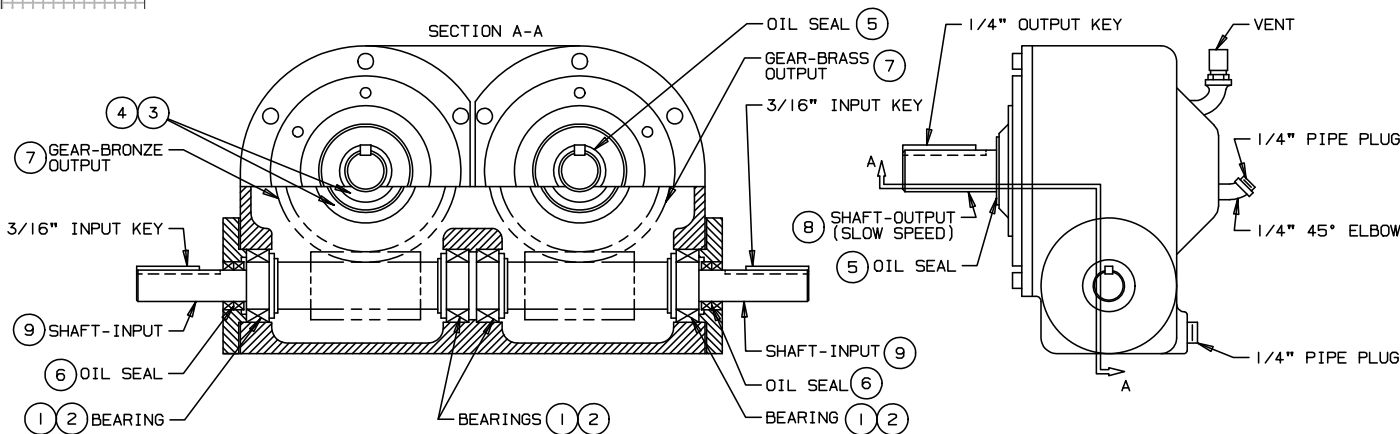
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184988-01



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Figure 12 Gear Reducer



M00057

(Order by freezer serial number)
Model — Wintwin

HC153341 Wintwin 10 - 1 Ratio A and B Side

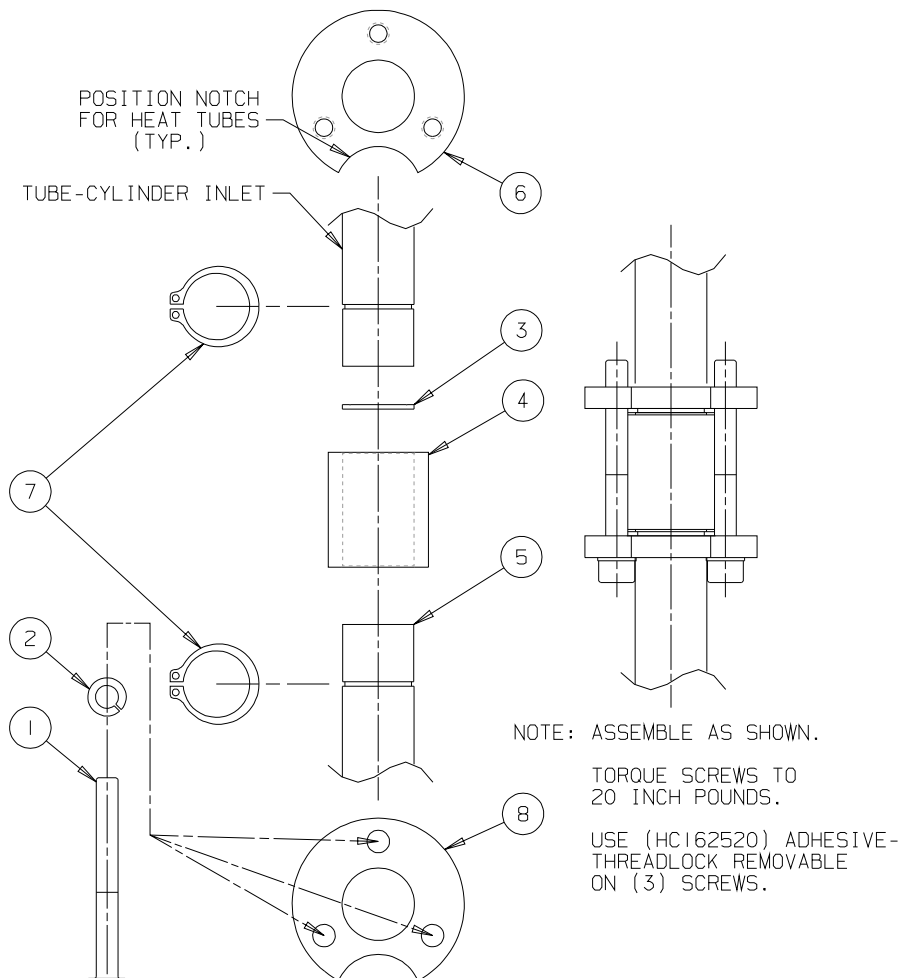
Item	Part No.	Description	Required Per Side
1	HC153014	Bearing-High Speed Cup	2 ea.
2	HC153015	Bearing-High Speed Cone	2 ea.
3	HC153011	Bearing-Slow Speed Cup	2 ea.
4	HC153012	Bearing-Slow Speed Cone	2 ea.
5	HC153051	Seal-Oil (Slow Speed)	2 ea.
6	HC153053	Seal-Oil (High Speed)	2 ea.
7	HC153349	Gear-Bronze	1 ea.
8	HC153350	Shaft-Slow Speed	1 ea.
	HC153000	Gear-Assy. Output (Slow Speed)	
9	HC153348	Shaft-Input (High Speed)	1 ea.
10	HC114874	Kit-Reducer Gasket 4CB	1 ea.
11	HC111964	Coupling-Assy. 1 inch Drive	

HC153322 Key-Drive 3/16" High (in)
HC153323 Key-Drive 1/4" Slow (out)

Oil-Gear Reducer order by freezer serial number.

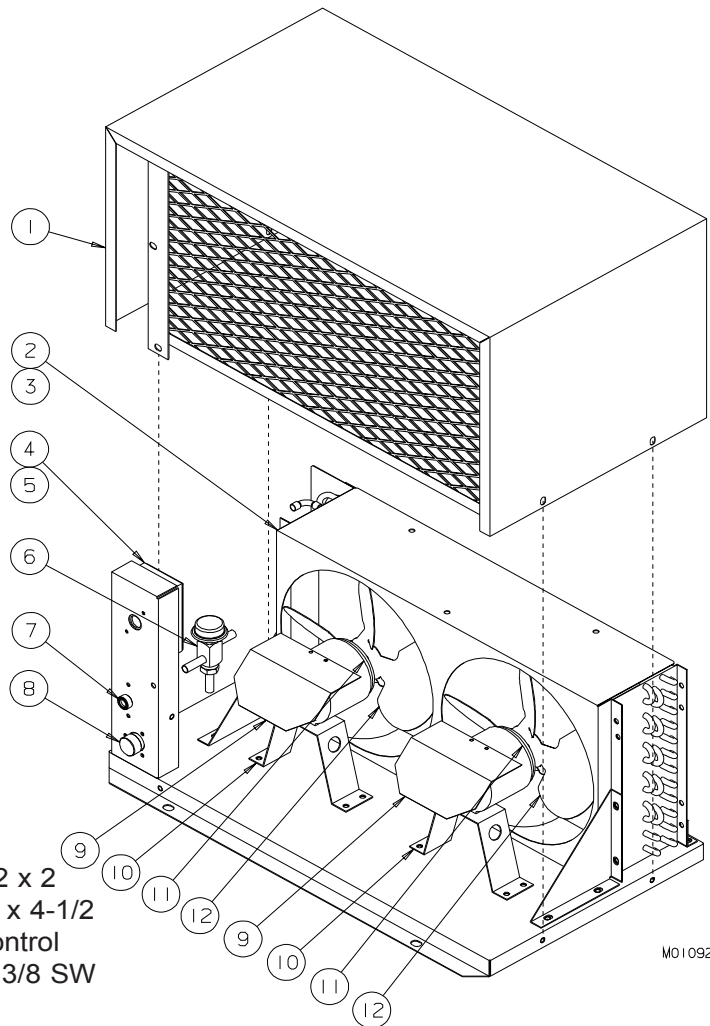
Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.

Figure 13 Mix Feed Seal Assembly



Item	Part No.	Description
1	HC160320	Screw-SKHC #10-24 x 1-3/4 SST
2	HC160166	Washer-Lock #10 SST
3	HC160556	Gasket-Mix Joint
4	HC139351	Collar-Alignment
5	HC139349	Tube-Mix Feed Clamp
6	HC139352	Clamp-Ring Threaded
7	HC160312	Ring-Retaining 5/8 Ext. SST
8	HC139353	Clamp-Ring

Figure 14 Air Cooled Remote Condenser



Item	Part No.	Description
*	HC116781-02	Condenser-Assy. 2 Hp Remote (Complete)
1	HC117207	Cover-Assy. Condenser
2	HC155101-C	Condenser-Air Rifled
3	HC138465	Shroud-Fan
4	HC150732	Box-Electric 2-3/4 x 4-1/2 x 2
5	HC150737	Cover-Electric Box 2-3/4 x 4-1/2
6	HC155454	Valve-Head Pressure Control
7	HC153420	Coupling-Refr. 3/8 MQC 3/8 SW
7A	HC191538	Plate-Coupling Mtg.
8	HC153418	Coupling-Refr. 1/2MQC 1/2 SW
8A	HC153502	Flange-Refr. Coupling Mount
8B	HC153503	Cap-Dust Refr. Coupling
9	HC139017	Shield-Motor Rain
10	HC137632	Bracket-Fan Condenser
11	HC151072	Motor-Fan 50W 230V 60Hz
12	HC159029	Blade-Fan 11" Dia 36°

* Includes all items above.

Not Shown:

HC155058	Receiver-12 lb. Horizontal Mount
HC120498	Kit-LPCO 155705 Field (ACR)
HC120494	Kit-HPCO 155450 Field (ACR)
HC155466	Control-Pressure Fan
HC155487	Valve-Check 5/8 ODF Sweat
HC153418	Coupling-Refr. 1/2MQC 1/2 SW
HC153420	Coupling-Refr. 3/8MQC 3/8 SW
HC119124	Kit-25 Foot Line Sets 404a
HC119125	Kit-50 Foot Line Sets 404a

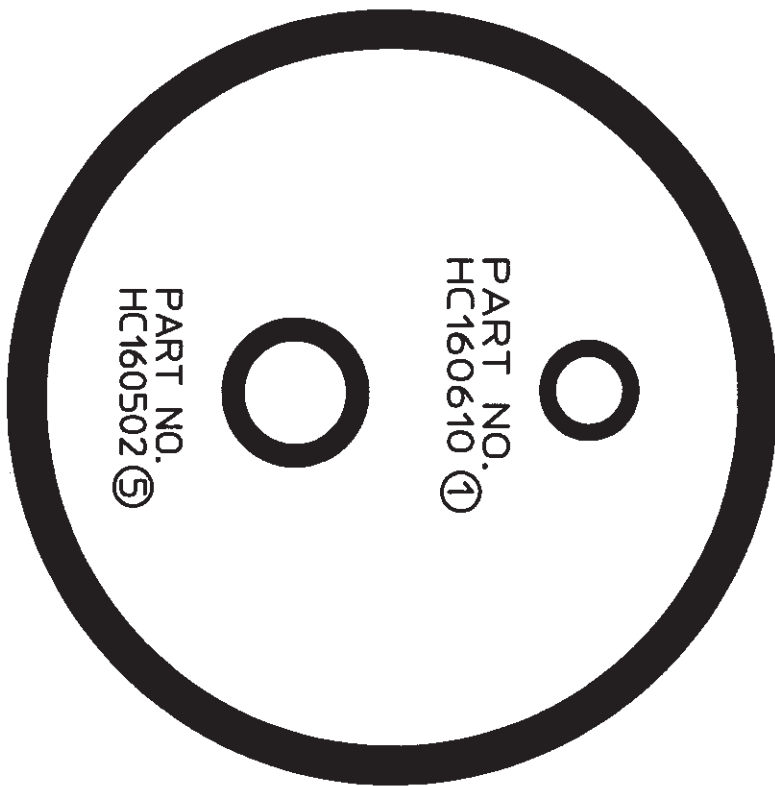
**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Accessories

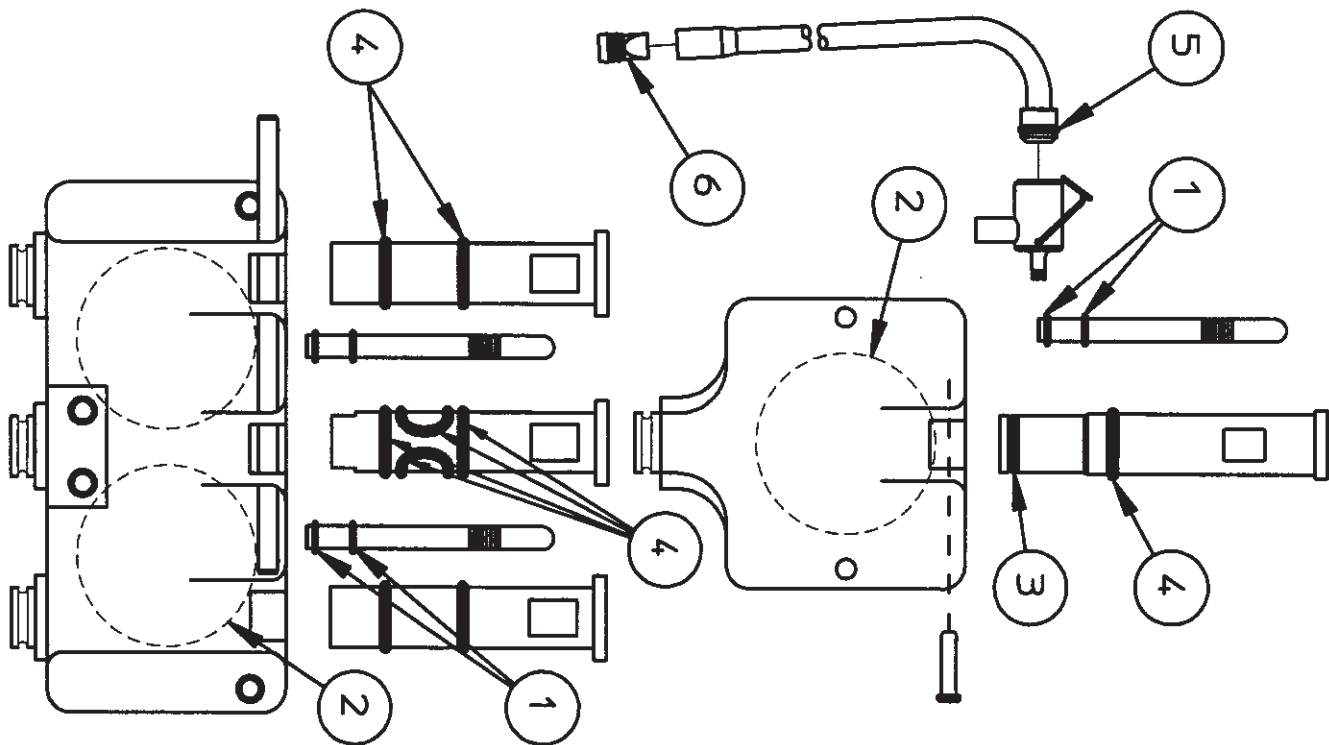
Part No.	Description
HC196103	Bottle-Wash 500ML (Plunger and MTS)
HC158009	Brush-4" w/o Handle (Cylinder) (Use with Handle p/n HC158012)
HC158037	Brush-1/4" dia x 18-1/2" Overall Length
HC158018	Brush-7/16" Dia. 12" Overall Length
HC158019	Brush-9/16" Dia. 30" Overall Length
HC158026	Brush-1" Dia. 12" Long
HC162105	Caster-1-1/4" ST PT with Brake
HC162106	Caster-1/14" ST PT without Brake
HC184244	Chart-O-ring (Laminated)
HC158051	Cup-Overrun (use with P/N HC158049 scale)
HC158012	Handle-Brush 36 inch Fiberglass (Use with Brush p/n HC158009)
HC118747	Kit-RMT Redline
HC120315	Kit-O Ring 4000EP
HC112978	Leg-Assy. 6"
HC158000A	Lubricant-Petrol Gel 4 oz. tube (per tube)
HC150736	Nut-Lock Conduit 1-1/4 (Casters)
HC158014	Sanitizer-Stera-Sheen (per case/4 jars)
HC158014A	Sanitizer-Stera-Sheen (per 4lb. jar)
HC158049	Scale-Overrun
HC184694	Sheet-Cleaning & Sanitizing 4000EP (Laminated)
HC169374	Tool-O-Ring Removal

Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.

SOFT SERVE DISPENSING HEADS



PART NO.
HC160583 ②



PH.NO. 309-755-4553

O-RING CHART

H.C.DUKE & SON, INC.

Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.

Cleaning & Sanitizing Electro Freeze® 4000EP Platinum Series Freezers

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 Operator's Manual.

DRAINING PRODUCT

Follow Closing Procedures in Operator's Manual to remove frozen product from the freezer.

1. Turn selector switches to "**CLEAN**", MTS switches to "**ON**", CAB switch to "**OFF**".
2. Empty the remaining mix out of mix tanks.
3. Run beaters 5 minutes to soften product. Dispense as much frozen product as possible.
4. Pour 2 gallons of cool water into each mix tank, allowing the cylinders to fill with water.
5. Open plungers to drain mix and water. Repeat step 4 until water is clear.
6. Prepare and pour 2 gallons of warm sanitizing solution of 100ppm available chlorine in mix tank.
7. Open air bleed and fill each cylinder with sanitizer. Close air bleed. Place selector switch to clean for 5 minutes.
8. Put all switches in the "**OFF**" position. Drain completely.

DISASSEMBLY



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. Some freezers have more than one disconnect switch.



CAUTION: PRESSURIZED SYSTEM.
Plungers must be open before disassembly.

Disassemble the freezer components in accordance with the Operator's Manual instructions.

1. Remove dispensing head and beater shafts from freezer. Disassemble MTS and move to cleaning area.

CLEANING

1. 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).
2. Disassemble all parts and remove o-rings. Clean each part with the appropriate brush supplied with freezer.
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. Go to freezer. Using a dish detergent solution and the appropriate brush clean the mix feed tubes from the refrigerated cabinet to the cylinders, the inside of the cylinders making certain to clean the back walls, the inside of the drain tube and all soiled surfaces.

ASSEMBLY

Assemble and lubricate freezer components in accordance with the Operator's Manual instructions.

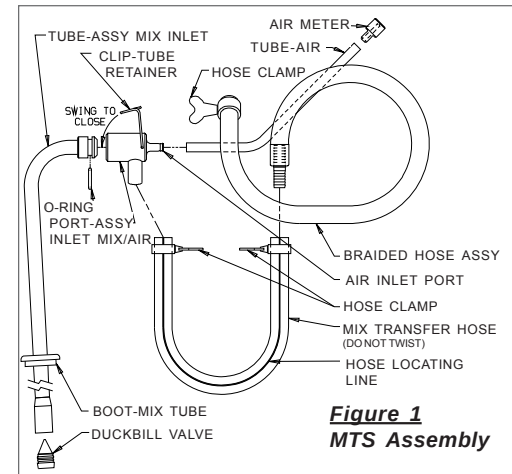


Figure 1
MTS Assembly

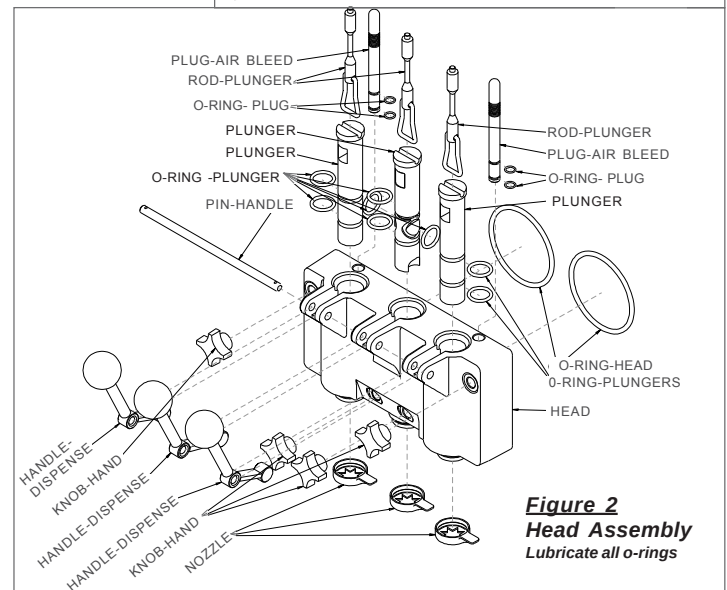


Figure 2
Head Assembly
Lubricate all o-rings

SANITIZING

1. Wash and sanitize your hands and forearms.
2. Prepare 2 gallons (7.5 liters) of sanitizing solution for each mix tank. Sanitizing solution must be mixed according to manufacturer's instructions to yield 100 PPM (parts per million) available chlorine solution.
3. Brush the interior mix tank walls, the underside of the tank covers, and low mix probes with sanitizer solution.
4. Place the mix tanks filled with sanitizer in the refrigerated cabinet, insert pickup tube and sanitize exterior of the tubes.
5. Place an empty container under the dispensing head.
6. Open the air bleed plugs by pulling up until the plugs touch the bottom of the switch box.
7. Reconnect the main power supply to the freezer. Turn the MTS switches to "**ON**". This will push the sanitizer into the cylinders.
8. When sanitizer flows out the bottom of the dispense head, close the air bleed plugs.

(over)

SANITIZING (continued)

- Turn both selector switches to "CLEAN" and allow the beaters to run for 5 minutes. Check for leaks around the head, drain tube, clamps and MTS.
- Drain the solution from the cylinders by slowly pulling down on the dispense handles. **NOTE: Some sanitizer will remain in hoses and cylinders.**
- Hold the handles down, and turn the selector switches to "OFF". Let the MTS force all possible sanitizer out of the freezing cylinders.

Important:

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

- Turn the MTS switches to "OFF".
- Remove the mix inlet tubes, holding the top 6-inch portion only.
- Remove the mix tanks and empty any remaining sanitizer.

Priming The Freezer

- Make sure that your hands, forearms, and all freezer assemblies are sanitized.
- Holding the top 6-inch portion only, insert each pickup tube into a sanitized mix tank through the small hole in the rear cover and set mix tanks in cabinet. Slide each mix feed boot seal over hole in the tank cover.
- Fill the mix tanks with mix and install the front covers.
- Insert the low mix probes through the large hole in the rear cover, and connect the probe cords to the probes and to the back of the cabinet.
- Turn the cabinet switch to "ON" and close the cabinet door.

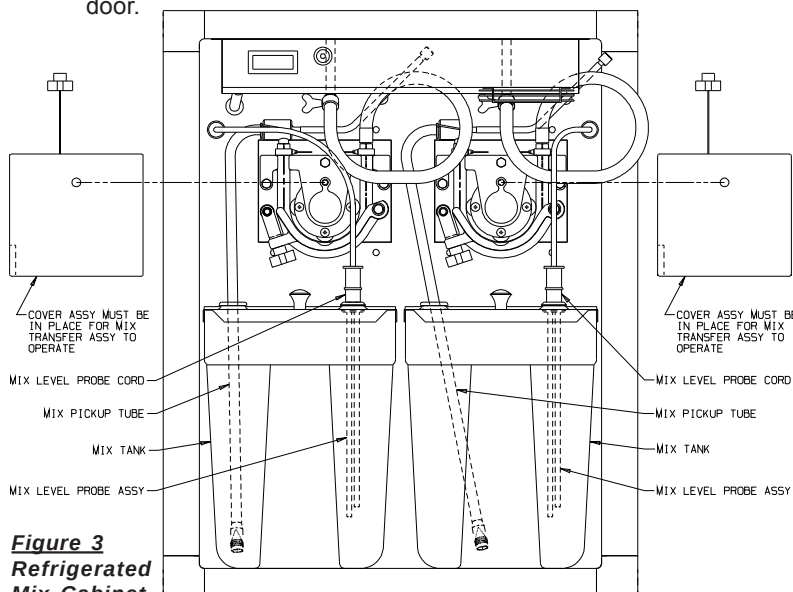


Figure 3
Refrigerated
Mix Cabinet

Priming The Freezer (continued)

- Place an empty container under the dispensing head on the drip tray.
- Open the side plungers and air bleed plugs.
- Turn the MTS switches to "ON" and allow the mix to push the remaining sanitizer from the cylinders through the plunger openings.

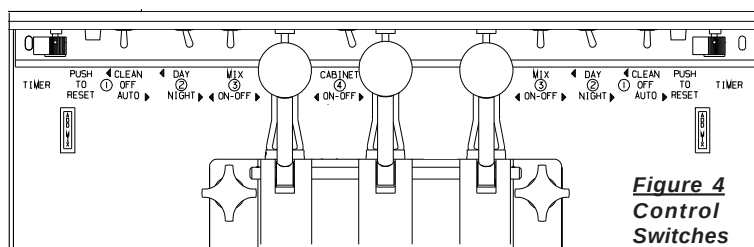


Figure 4
Control
Switches

- Close the side plungers when pure mix is coming out.

Important:

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

- After mix appears at the bottom of the head (approximately 50–55 seconds), close the air bleed plugs and wait for the MTS to fill the cylinders and shut off.

OPERATING INSTRUCTIONS			
DAY		NIGHT	
①	AUTO	①	AUTO
②	DAY	②	NIGHT
③	ON	③	OFF
④	ON	④	ON

- After the MTS has cycled off (approximately 30 seconds) turn both selector switches to "AUTO", both DAY/NIGHT switches to "DAY", and MTS switches remain "ON".
- Allow the freezer to cycle for 15 minutes. Sanitize the nozzles and install on the head. The product is now ready to serve.

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

Alphabetized Parts List for Model 4000EP

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Actuator-Assy. Door Switch	HC118597	2	C2M-885 —
Adapter-Reset	HC150101	2	C2M-885 —
Adaptor-Overload Din Rail	HC150173	2	C2M-885 —
Arm-Shoe Pivot (MTS)	HC138797	2	C2M-885 —
Arm-Swing Clamp (MTS)	HC138799	2	C2M-885 —
Base-Probe Mtg.	HC137120	2	C2M-885 —
Bearing-High Speed Cone	HC153015	4	C2M-885 —
Bearing-High Speed Cup	HC153014	4	C2M-885 —
Bearing-Slow Speed Cone	HC153012	4	C2M-885 —
Bearing-Slow Speed Cup	HC153011	4	C2M-885 —
Belt-V (LH)	HC153171	2	C2M-885 —
Belt-V (RH)	HC153161	2	C2M-885 —
Blade-Fan 6" 20° (WC & ACR)	HC159032	1	C2M-885 —
Blade-Fan 11" 36° (AC)	HC159023	4	C2M-885 —
Blade-Fan 11" 36° (ACR)	HC159029	4	C2M-885 —
Blade-Scraper Soft Serve	HC137334	4	C2M-885 —
Block-Installation RMT (MTS)	HC165524	2	C2M-885 —
Boot-Mix Tube (Seal)	HC199033	2	C2M-885 —
Bottle-Wash-Plunger and MTS	HC196103	*	C2M-885 —
Box-Assy. Relay (Complete)	HC120233	2	C2M-885 —
Box-Electric 2-3/4 x 4-1/2 x 2 (ACR)	HC150732	2	C2M-885 —
Bracket-Assy. Fan Motor (AC)	HC116741	2	C2M-885 —
Bracket-Assy. Front Air Cond. (AC)	HC116565	4	C2M-885 —
Bracket-Assy. Rear Air Cond. (AC)	HC116564	2	C2M-885 —
Bracket-Assy. Switch Mtg. (MTS-RMT)	HC118763	2	C2M-885 —
Bracket-Condenser Mounting (CAB Condenser - WC & ACR)	HC140519	3	C2M-885 —
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Alphabetized Parts List for Model 4000EP

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Bracket-Condenser Mounting (Comp. Condenser - WC)	HC139877	1	C2M-885 —
Bracket-Fan Condenser (ACR)	HC137632	4	C2M-885 —
Bracket-Fan Motor (CAB Condenser - WC & ACR)	HC140520	2	C2M-885 —
Bracket-Flange Relay Mtg. (MTS Relay Box)	HC138159	2	C2M-885 —
Breaker-Circuit 4A	HC150182	2	C2M-885 —
Brush-1/4-inch Dia. 18-1/2-inch OAL	HC158037	*	C2M-885 —
Brush-1-inch Dia. 12-inch Long	HC158026	*	C2M-885 —
Brush-4-inch w/36" Handle (Cylinder) NLA	HC158004	*	C2M-885 — B2N
Brush-4-inch w/o Handle (Cylinder) (use with Handle p/n HC158012)	HC158009	*	C2M-885 —
Brush-7/16-inch Dia. 12-inch OAL	HC158018	*	C2M-885 —
Brush-9/16-inch Dia. 30-inch OAL	HC158019	*	C2M-885 —
Bumper-Rubber (Drip Tray Insert)	HC199030	4	C2M-885 —
Bushing-Cylinder	HC196085	2	C2M-885 —
Button-Reset (Lever-Assy. Rest)	HC159036	2	C2M-885 —
Cap-Dust Refr. Coupling (ACR)	HC153503	2	C2M-885 —
Capacitor-Run (Beater Motor)(Danfoss)	HC150244	2	C2M-885 —
Capacitor-Run (Compressor)(Bristol)	HC150362	2	C2M-885 —
Capacitor-Start (Beater Motor)(Danfoss)	HC150294	2	C2M-885 —
Capacitor-Start (CAB Compressor) (Danfoss)	HC150942	1	C2M-885 —
Capacitor-Start (Compressor)(Bristol)	HC151460	2	C2M-885 —
Capacitor-Start w/Bleed (RMT Gearmotor)	HC150512	2	C2M-885 —
Caster-1-1/4" ST PT with Brake	HC162105	2	C2M-885 —
Caster-1-1/4" ST PT without Brake	HC162106	2	C2M-885 —
Catch-Bullet (Drip Tray)	HC159175	2	C2M-885 —
Channel-Rear R.H. (Corner)	HC130021-C	2	C2M-885 —
Channel-Rear L.H. (Corner)	HC135254-C	2	C2M-885 —
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

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Use of unapproved parts will void warranty.**

Alphabetized Parts List for Model 4000EP

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Chart-O-ring (Laminated)	HC184244	1	C2M-885 —
Clamp-Assy. Soft Hose 5/8	HC116065	6	C2M-885 —
Clamp-Hose 1/2 Drain	HC160738	1	C2M-885 —
Clamp-Ring (Mix Feed Seal)	HC139353	2	C2M-885 —
Clamp-Ring Threaded (Mix Feed Seal)	HC139352	2	C2M-885 —
Clamp-Shoe Swing	HC138798	2	C2M-885 —
Clip-Minature Relay Retaining (Switch Box)	HC150166	4	C2M-885 —
Clip-Retainer (Set of 2)(Switch Box)	HC150120	4	C2M-885 —
Clip-Retainer Indicator Light (Panel Assy.)	HC159401	2	C2M-885 —
Clip-Tube Retainer (Pickup Tube Assy.)	HC162324	2	C2M-885 —
Coil-Evaporator (Shroud Assembly)	HC155111	1	C2M-885 —
Coil-Replacement Contactor	HC150133	*	C2M-885 —
Collar-Alignment (Mix Feed Seal)	HC139351	2	C2M-885 —
Compressor-Assy. (1ph)(Bristol)	HC119508	2	C2M-885 —
Capacitor-Run	HC150362	2	C2M-885 —
Capacitor-Start	HC151460	2	C2M-885 —
Drier-Filter	HC155054	2	C2M-885 —
Relay-Compressor	HC151459	2	C2M-885 —
Compressor-Assy. (3ph)(Bristol)	HC119815	2	C2M-885 —
Drier-Filter	HC155054	2	C2M-885 —
Compressor-Kit NL6.1MF (Cabinet)(Danfoss)	HC120299	1	C2M-885 —
Drier-Filter w/Access	HC155498	1	C2M-885 —
Condenser-Air 8" x 8" (WC & ACR)	HC155139	1	C2M-885 —
Condenser-Air Rifled (LH) (AC)	HC155101-C	2	C2M-885 —
Condenser-Air Rifled (ACR)	HC155101-C	2	C2M-885 —
Condenser-Air Rifled (RH)(Cylinder & CAB)(AC)	HC155102-C	2	C2M-885 —
Condenser-Assy. 2 Hp Remote (Complete)	HC116781-02-C	2	C2M-885 —
Condenser-Water (WC)	HC155029	2	C2M-885 —
Connector-3/8 x 90° (MTS-RMT)	HC150705	4	C2M-885 —
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

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Use of unapproved parts will void warranty.**

Alphabetized Parts List for Model 4000EP

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Connector-1/2" (Relay Box MTS)	HC150828	2	C2M-885 —
Contactor-IEC 23A 24V COIL (Beater Motor, Compressor & Fan)	HC150136	4	C2M-885 —
Container-Mix	See "Tank"		
Control-Pressure Fan (ACR)	HC155466	2	C2M-885 —
Control-Voltage Monitor	HC150180	2	C2M-885 —
Cord-Assy. Female Plug	HC150533	1	C2M-885 —
Cord-Assy. Male Plug	HC150532	1	C2M-885 —
Cord-Assy. Motor (MTS)	HC118833	2	C2M-885 —
Cordset-Mix Level Probe	HC150537	2	C2M-885 —
Coupling-Assy. 1 inch Drive	HC111964	2	C2M-885 —
Coupling-Refr. 1/2MQC 1/2 SW	HC153418	2	C2M-885 —
Coupling-Refr. 3/8MQC 3/8 SW	HC153420	2	C2M-885 —
Cover-Assy. Condenser	HC117207	2	C2M-885 —
Cover-Assy. Front Mix Tank	HC117553	2	C2M-885 —
Cover-Assy. RMT CAB	HC119023	2	C2M-885 —
Cover-Blank Rear (CARVEL ONLY)	HC140446-01	2	C2M-885 —
Cover-Electric Box 2-3/4 x 4-1/2	HC150737	2	C2M-885 —
Cover-Rear Mix	HC140446	2	C2M-885 —
Cup-Overrun (use with P/N HC158049 scale)	HC158051	*	C2M-885 — E2N-1714
Cut Out-High Pressure 440 PSIG (ACR)	HC155425	2	C2M-885 — E2N-1714
Cut Out-High Pressure 375 PSIG (WC)	HC155484	2	C2M-885 — E2N-1714
Cut Out-High Pressure 440 PSIG (AC)	HC155481	2	C2M-885 — E2N-1714
Cut Out-High Pressure Kit 155450 Field (AC & ACR)	HC120494	2	E2N-1715 —
Cut Out-High Pressure Kit 155702 Field (WC)	HC120495	2	E2N-1715 —
Cut Out-Low Pressure 0 PSIG (ACR)	HC155465	2	C2M-885 — E2N-1714
Cut Out-Low Pressure 0 PSIG (WC & AC)	HC155482	2	C2M-885 — E2N-1714
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

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Use of unapproved parts will void warranty.**

Alphabetized Parts List for Model 4000EP

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Cut Out-Low Pressure Kit (ACR) 155705 Field ...	HC155482	2	E2N-1715 —
Cut Out-Low Pressure Kit 155701 Field (WC & AC)	HC120496	2	E2N-1715 —
Cylinder-Assy. Complete	HC120129	2	C2M-885 —
Decal-6" Air Flow	HC165119	1	C2M-885 —
Decal-Beater Warning	HC165025	1	C2M-885 —
Decal-Blade Installation	HC164031	1	C2M-885 —
Decal-Cleaning Instructions	HC164113	1	C2M-885 —
Decal-Clear Overlay	HC165093	1	C2M-885 —
Decal-CMT Patent	HC165013	1	C2M-885 —
Decal-Door Platinum Series Stripe (Vertical)	HC164183-01	1	I2M —
Decal-Door Lower Plat. Series (Horizontal)	HC164183-02	1	I2M —
Decal-Freedom 360° Trimstrip	HC165191	1	C2M-885 — I2M
Decal-MTS Connect Red Line	HC164110	1	C2M-885 —
Decal-MTS Trimstrips	See "Label- Trimstrip"		
Decal-Operating Instructions	HC164004-01	1	C2M-885 —
Decal-Panel Removal	HC165126	3	C2M-885 —
Decal-Platinum Series (Text)	HC164475	1	I2M —
Decal-Top Air Discharge	HC165124	1	C2M-885 —
Decal-Trimstrip EF Logo 26"	HC165188-01	1	C2M-885 — I2M
Decal-Trimstrip Plat. Series Strip	HC164183	1	I2M —
Decal-Warning Pressurized	HC165246	4	C2M-885 —
Decal-Warning Rotating Parts (MTS-RMT)	HC165048	2	C2M-885 —
Deck-Adder 1 NO 1 NC (Switch Box)	HC150146	1	C2M-885 —
Door-Assy.	HC114260-C	1	C2M-885 —
Pull-Door (Handle)	HC136199	1	C2M-885 —
Drier-Filter 16 cu in	HC155054	2	C2M-885 —
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

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Alphabetized Parts List for Model 4000EP

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Drier-Filter w/Access	HC155498	1	I20 —
Duckbill-Inlet RM MTS (Valve)	HC199032-01	**	C2M-885 —
Faceplate-Assy. MTS	HC118764	2	C2M-885 —
Fan-Intake (Cabinet)	HC151105	1	C2M-885 —
Flange-Refr. Coupling Mount	HC153502	2	C2M-885 —
Gasket-Magnetic Door (V-Groove)	HC160563	1	C2M-885 —
Gasket-Mix Joint (Mix Feed Seal)	HC160556	2	C2M-885 —
Gauge-Shaft Alignment RMT	HC139046-01	1	C2M-885 —
Gear-Assy. Output (Slow Speed)	HC153000	2	C2M-885 —
Gear-Bronze	HC153349	2	C2M-885 —
Gearmotor-1/8 HP (MTS)	HC151132	2	C2M-885 —
Glass-Sight	HC155059	2	C2M-885 —
Guard-Fan Open	HC151076	2	C2M-885 —
Guide-Assy. Push Rod	HC114174	3	C2M-885 —
Handle-Assy. Dispense (Side)	HC110007	2	C2M-885 —
Knob-Ball 3/8-16 THD Black	HC162629	2	C2M-885 —
Handle- Assy. Dispense Center	HC114808	1	C2M-885 —
Knob-Ball 3/8-16 THD Black	HC162629	1	C2M-885 —
Handle-Brush 36 inch Fiberglass (use with Brush p/n HC158004)	HC158012	1	C2M-885 —
Head-Assy. Dispense Complete	HC120013	1	C2M-885 —
Head-Only	HC120012	1	C2M-885 —
Handle-Assy. Dispense (Side)	HC110007	2	C2M-885 —
Knob-Ball 3/8-16 THD Black	HC162629	2	C2M-885 —
Handle-Assy. Dispense Center	HC114808	1	C2M-885 —
Knob-Ball 3/8-16 THD Black	HC162629	1	C2M-885 —
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

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Alphabetized Parts List for Model 4000EP

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Head-Assy.Dispense Complete (continued)			
Nozzle-Serrated	HC196185	1	C2M-885 —
Plunger-Side Self Dispense	HC137174	2	C2M-885 —
O-Ring (Air Plug)	HC160610	4	C2M-885 —
O-Ring (Head)	HC160583	1	C2M-885 —
O-Ring (Plunger)	HC160501	8	C2M-885 —
Pin-Handle	HC160269	1	C2M-885 —
Plug-Air Bleed (Relief)	HC138149	2	C2M-885 —
Plunger-Dispense Center	HC138009	1	C2M-885 —
Heat Exchanger	HC155495	2	C2M-885 —
Hinge-Pivot 1-3/8 Bottom L.H.	HC162046	1	C2M-885 —
Hinge-Pivot 1-3/8 Top L.H.	HC162045	1	C2M-885 —
Spring-L.H.	HC162052	1	C2M-885 —
Hose-Assy. Mix Braided	HC116094	2	C2M-885 —
Hose-Transfer Red Line	HC138836	2	C2M-885 —
Indicator-Mix Level 28V ADD MIX (Switch Box)	HC150278	2	C2M-885 —
Insert-Assy. Drip Tray 26"	HC115132	1	C2M-885 —
Bumper-Rubber	HC199030	4	C2M-885 —
Insulation-Comp Wrap Bristol	HC165534	2	C2M-885 —
Insulator-Expansion Valve	HC165531	2	C2M-885 —
Key-Drive 1/4" Slow (Gear Reducer)	HC153323	2	C2M-885 —
Key-Drive 3/16 sq x 1-1/2 (Gear Reducer, Driven & Driver Sheaves)	HC153322	4	C2M-885 —
Kit-25 Foot Line Sets 404a (ACR)	HC119124	*	C2M-885 —
Kit-50 Foot Line Sets 404a (ACR)	HC119125	*	C2M-885 —
Kit-CAB Thermostat	HC118813	1	C2M-885 —
Kit-Compressor NL6.1MF(Cabinet)(Danfoss)	HC120299	1	C2M-885 —
Drier-Filter w/Access	HC155498	1	C2M-885 —
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

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Alphabetized Parts List for Model 4000EP

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PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Kit-Cover Switch RMT Freezer (MTS-RMT)	HC118894	*	C2M-885 —
Kit-Dispense Head Switch	HC116410	*	C2M-885 —
Kit-Gearmotor Replacement Model RMT	HC119918	*	C2M-885 —
includes motor and			
Gauge-Shaft Alignment RMT	HC139046-01	1	C2M-885 —
Sealant-Alum Silastic	HC162513	1	C2M-885 —
Washer-Spring Wave SST	HC160173	1	C2M-885 —
Kit-Motor & Cap 2HP (1ph)(Beater Motor)	HC119816	2	C2M-885 —
Capacitor-Run	HC150244	2	C2M-885 —
Capacitor-Start	HC150294	2	C2M-885 —
Kit-O-ring 4000EP	HC120315	*	C2M-885 —
Kit-Pressure Switch 30 psi	HC118712	*	C2M-885 —
Kit-Reducer Gasket 4CB	HC114874	*	C2M-885 —
Kit-RMT Double Redline	HC118747	*	C2M-885 —
Kit-Roller	HC116009-01	*	C2M-885 —
Kit-Thermostat & Retainer (Day & Night)	HC119989	4	C2M-885 —
Kit-Water Valve Repair	HC155444	*	C2M-885 —
Knob-Ball 3/8-16 THD Black (Dispense Handles - Head)	HC162629	3	C2M-885 —
Knob-Cover RMT (MTS)	HC138889	2	C2M-885 —
Knob-Hand (Head Assembly)	HC162625	4	C2M-885 —
Knob-Hand (MTS)	HC162622	2	C2M-885 —
Knob-Timer (Switch Box)	HC162604	2	C2M-885 —
Label-Trimstrip LH (MTS)	HC164020	1	C2M-885 —
Label-Trimstrip RH (MTS)	HC164021	1	C2M-885 —
Lanyard-Wire (MTS)	HC138890	2	C2M-885 —
Leg-Assy. 6-inch	HC112978	4	C2M-885 —
Lever-Reset & Button 193TA (Switch Box)	HC120119	2	C2M-885 —
Button-Reset	HC159036	2	C2M-885 —
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

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Alphabetized Parts List for Model 4000EP

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PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Light-Indicator 28V ADD MIX	HC150541	2	C2M-885 —
Light-Round .500 White 24v (CARVEL ONLY) ...	HC150538-01	2	C2M-885 —
Line Sets - 25 Foot Kit 404a (ACR)	HC119124	*	C2M-885 —
Line Sets - 50 Foot Kit 404a (ACR)	HC119125	*	C2M-885 —
Lubricant-Petrol Gel 4 oz (per tube)	HC158000A	*	C2M-885 —
Meter-Air	<i>Order by meter number</i>		
Module-Plug on Vari Time	HC150253	2	C2M-885 — E2M-1547
Module-Plug on Vari Time	HC150257	2	C2M-885 —
Motor-2 HP (1ph) (Beater Motor)	<i>See "Kit-Motor & Cap" ...</i>		
Motor-2 HP (3ph) (Beater Motor)	HC151052	2	C2M-885 —
Motor-Fan 5 Watt 230v (CAB Comp-WC & ACR)	HC151017	1	C2M-885 —
Motor-Fan 50w 230v (AC)	HC151077-01	4	C2M-885 —
Motor-Fan 50W 230V 60Hz (ACR)	HC151072	4	C2M-885 —
Motor-Gearmotor Replacement Kit (MTS-RMT)	HC119918	2	C2M-885 —
MT-Assy CAB Redline	HC118751	2	C2M-885
Nozzle-Serrated (Head Assembly)	HC196185	**	C2M-885 —
Nut-Assy. Pressure Switch	HC116105	2	C2M-885 —
Nut-HEX 1/4-20 ZN (Switch Assembly)	HC160104	3	C2M-885 —
Nut-HEX 3/8-16 SST (MTS)	HC159927	2	C2M-885 —
Nut-HXSf 1/4-20 ZN (Relay Box MTS)	HC159951	3	C2M-885 —
Nut-HXSf 1/4-40 ZN (MTS)	HC159933	3	C2M-885 —
Nut-Lock Conduit 1-1/4 (Casters)	HC150736	4	C2M-885 —
Nut-Push Round	HC160289	2	C2M-885 —
Nut-Speed #6-32 BKOX (Relay Box MTS)	HC160116	2	C2M-885 —
Nut-Speed #10-24 .100-.125 (On Frame)	HC159067	*	C2M-885 —
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PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Nut-Speed #10-24 .025-.064 SST (Dispense & Front Panels)	HC159132	*	C2M-885 —
Nut-Speed 1/4-20 .064-.125 (Rear Channel)	HC160117	*	C2M-885 —
Nut-Speed 1/4-20 BP&O (Rear & Side Panels)	HC160114	*	C2M-885 —
O-Ring (Tube-Assy. Pickup)	HC160502	**	C2M-885 —
O-Ring (Air Plug)	HC160610	**	C2M-885 —
O-Ring (Head)	HC160583	**	C2M-885 —
O-Ring (Plunger)	HC160501	**	C2M-885 —
O-Ring (Swing Clamp MTS-RMT)	HC160628	**	C2M-885 —
O-Ring (Seal Shaft Assy. HC111875)	HC160500	**	C2M-885 — E2N
O-Ring (Roller Shoe MTS-RMT)	HC160612	**	C2M-885 —
O-Ring Chart (Laminated)	HC184244	1	C2M-885 —
O-Ring Kit	HC120315	*	C2M-885 —
Pan-Assy. Condensate	HC120125	1	C2M-885 —
Panel-Dispense	HC137297-C	1	C2M-885 —
Panel-Dispense (CARVEL ONLY)	HC137643-01-C ...	1	C2M-885 —
Panel-Assy. Front	HC113985-C	1	C2M-885 —
Panel-Assy. Front (CARVEL ONLY)	HC119153-C	1	C2M-885 —
Panel-Assy. Top (AC)	HC116567-C	1	C2M-885 —
Panel-Assy. Top (WC & ACR)	HC114157-C	1	C2M-885 —
Panel-Assy. Top (CARVEL ONLY)	HC114157-01-C	1	C2M-885 —
Panel-Lower Rear (ACR)	HC138983	1	C2M-885 —
Panel-Rear (AC and WC)	HC136313-C	1	C2M-885 —
Panel-Side LH	HC136289-C	1	C2M-885 —
Panel-Side RH	HC136216-C	1	C2M-885 —
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

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PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Panel-Spacer (Rear & Side Panels)	HC138456	*	C2M-885 —
Panel-Upper Rear (ACR)	HC138982	1	C2M-885 —
Pickup Tube-Assy. Mix	See "Tube-Assy. Pickup 2 Piece"		
Pin-Dowel 1/4 DIA x 3/4 SST (MTS)	HC160338	4	C2M-885 —
Pin-Handle (Head Assembly)	HC160269	1	C2M-885 —
Plate-Backup MTS	HC139746	2	C2M-885 —
Plate-Coupling Mtg. (ACR)	HC191538	2	C2M-885 —
Plug-Air Bleed	HC138149	2	C2M-885 —
Plunger-Dispense Center (Head Assembly)	HC138009	1	C2M-885 —
Plunger-Side Self Dispense (Head Assembly)	HC137174	2	C2M-885 —
Port-Assy. Inlet Mix/Air (MTS Hose Assy.)	HC118765	2	C2M-885 —
Probe-Assy. Mix Level 10-3/4" (6 Gal.)	HC115397	2	C2M-885 —
Base-Probe Mtg.	HC137120	2	C2M-885 —
Pull-Door (Handle Cabinet)	HC136199	1	C2M-885 —
Pulley See "Sheave"			
Push Rod-Assy. Plunger Switch (Head Assy)	HC116089	3	C2M-885 —
Receiver-3 lb. 3/8 ID Sweat	HC155057	2	C2M-885 —
Receiver-12 lb. Horizontal Mount (ACR)	HC155058	2	C2M-885 —
Receptacle-Molded Level Sensor	HC150536	2	C2M-885 —
Receptacle-Snap In	HC159050	2	C2M-885 —
Reducer-Gear	HC153341	1	C2M-885 —
Reducer-Gear Gasket Set	HC114874	*	C2M-885 —
Relay-Assy. Overload 6-10A	HC120116	2	C2M-885 —
Adaptor-Overload Din Rail	HC150173	2	C2M-885 —
Adapter-Reset	HC150101	2	C2M-885 —
Relay-Overload Bi-metal 6-10A	HC150176	2	C2M-885 —
Relay-Compressor (Bristol)	HC151459	2	C2M-885 —
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Alphabetized Parts List for Model 4000EP

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PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Relay-Compressor Start (Cabinet Compressor)(Danfoss)	HC151473	1	C2M-885 —
Relay-Control Flange DPDT 24V(Switch Box)	HC150343	1	C2M-885 —
Relay-Control Flange DPDT 24V (Relay Box MTS)	HC150343	2	C2M-885 —
Relay-Miniature SPDT 24V Coil (Switch Box)	HC150164	4	C2M-885 —
Relay-Overload Bi-metal 1ph 6-10A(Switch Box)	HC150176	2	C2M-885 —
Ring-Retaining 5/8 Ext. SST (Mix Feed Seal)	HC160312	4	C2M-885 —
Rivet-Ratchet Plastic (Bristol Compressors)	HC160419	24	C2M-885 —
Roller-Kit	HC116009-01	*	C2M-885 —
Sanitizer-Stera-Sheen (per case/4 jars)	HC158014	*	C2M-885 —
Sanitizer-Stera-Sheen (per 4 lb. jar)	HC158014A	*	C2M-885 —
Scale-Overrun Z32	HC158049	*	C2M-885 —
Screw-HXHC 1/4-20 x 2-1/2 SST (MTS-RMT)	HC160464	4	C2M-885 —
Screw-HXHC 1/4-20 x 3-1/2 SST (MTS-RMT)	HC160465	2	C2M-885 —
Screw-HXHM 1/4-20 x 2-1/2 ZN (Switch Assemblies) ..	HC159965	3	C2M-885 —
Screw-HXSF 1/4-20 x 1/2 ZN (Relay Box MTS)	HC159950	4	C2M-885 —
Screw-HXSF 1/4-20 x 11/16 SST (MTS-RMT)	HC159939	2	C2M-885 —
Screw-RDHM #4-40 x 1/4 (RMT Cover Switch Kit)	HC160357	4	C2M-885 —
Screw-RDHM #6-32 x 5/16 ZN (Relay Box MTS)	HC160308	4	C2M-885 —
Screw-RHMS 1/4-28 x 2-1/4 SST (MTS-RMT)	HC160093	8	C2M-885 —
Screw-SKHC #6-32 x 1 BKOX (Switch Assemblies)	HC160381	6	C2M-885 —
Screw-SKHC #10-24 x 1-3/4 SST (Mix Feed Seal)	HC160320	6	C2M-885 —
Screw-Sk Set 1/4-20 x 1/4 (Driven & Driver)	HC160495	4	C2M-885 —
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Alphabetized Parts List for Model 4000EP

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PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Screw-TRPM #10-24 x 1/2 SST (Dispense & Front Panels)	HC160076	*	C2M-885 —
Screw-TRPM #10-24 x 3/8 SST (Top Panel)	HC160305	*	C2M-885 —
Screw-TRPM 1/4-20 x 1 SST (Side Panels)	HC159219	*	C2M-885 —
Screw-TRPM 1/4-20 x 1/2 SST (Rear Panels & Channels)	HC160048	*	C2M-885 —
Seal-Assy. Shaft (Beater Shaft Assy.) includes	HC111875	**	C2M-885 — E2N
O-ring (Seal)	HC160500	**	C2M-885 — E2N
Seal-Beater Shaft (Cup)	HC160557	**	C2M-885 — E2N
Washer-Shaft Seal (Bushing)	HC133098	**	C2M-885 — E2N
Seal-Oil (High Speed)(Gear Reducer)	HC153053	4	C2M-885 —
Seal-Oil (Slow Speed)(Gear Reducer)	HC153051	4	C2M-885 —
Seal-Beater Shaft (Seal Shaft Assy. HC111875)	HC160557	2	C2M-885 — E2N
Sealant-Alum Silastic	HC162513	1	C2M-885 —
Seal-Shaft (One piece seal)	HC160567	3	E2N —
Sensor-10K Thermistor	HC161216	2	C2M-885 —
Shaft-Assy. Beater	HC113438	2	C2M-885 —
Shaft-Input (High Speed)(Gear Reducer)	HC153348	2	C2M-885 —
Shaft-Slow Speed (Gear Reducer)	HC153350	2	C2M-885 —
Sheave-7/8 Bore 3.25 OD (Driver)	HC153626	2	C2M-885 —
Sheave-3/4 Bore 4.75 OD (Driven)	HC153625	2	C2M-885 —
Shield-Drip (MTS)	HC139756	2	C2M-885 —
Sheet-Cleaning & Sanitizing (Laminated)	HC184694	1	C2M-885 —
Shield-Motor Rain (ACR)	HC139017	4	C2M-885 —
Shoe-Roller (MTS)	HC139751	2	C2M-885 —
Shroud-Assy. Evaporator	HC117129-01	1	C2M-885 —
Coil-Evaporator	HC155111	1	C2M-885 —
Cord-Assy. Male plug	HC150532	1	C2M-885 —
Fan-Intake (Cabinet)	HC151105	1	C2M-885 —
Guard-Fan Open	HC151076	1	C2M-885 —
Switch Door Push Button	HC150509	1	K2H-2700 —
Thermometer-Barrel	HC161004	1	C2M-885 —
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PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Shroud-Fan (ACR)	HC138465	2	C2M-885 —
Sleeve-Cable Stop 3/64 (MTS)	HC160508	4	C2M-885 —
Socket-Miniature Relay Clamp (Switch Box)	HC150165	4	C2M-885 —
Socket-Octal (Switch Box)	HC150119	2	C2M-885 —
Spacer-Motor (MTS-RMT)	HC138793	8	C2M-885 —
Spacer-Panel (Rear & Side Panels)	HC138456	*	C2M-885 —
Spacer-Swing Arm (MTS-RMT)	HC138800	4	C2M-885 —
Spring-Compression MW ZN (Switch Assy.)	HC162323	3	C2M-885 —
Spring-LH (Top Hinge)	HC162052	1	C2M-885 —
Strip-Terminal (Switch Box)	HC150795	3	C2M-885 —
Stud-5/16-18 x 3/4 SST (MTS)	HC160386	2	C2M-885 —
Stud-Assy. Cylinder 3-15/16	HC114341-05	4	C2M-885 —
Support-Condenser (ACR)	HC137629	4	C2M-885 —
Support-MTS (Relay Box MTS)	HC139805	2	C2M-885 —
Support-Roller Bearing (MTS-RMT)	HC138783-01	2	C2M-885 —
Switch-Assy. Self Closing Plunger (Center)	HC114178-01	1	C2M-885 —
Spring-Compression	HC162323	1	C2M-885 —
Switch-Roller Actuator DPDT	HC150478	1	C2M-885 —
Switch-Assy. Self Closing Plunger (Sides)	HC114176-01	1	C2M-885 —
Spring-Compression	HC162323	1	C2M-885 —
Switch-Roller Actuator SPDT	HC150477	1	C2M-885 —
Switch-Door Push Button (Shroud Assy.)	HC150509	1	C2M-885 —
Switch-Dispense Head Kit	HC116410	*	C2M-885 —
Switch-Pressure Kit	HC118712	*	C2M-885 —
Switch-Roller Actuator DPDT (Center)	HC150478	1	C2M-885 —
Switch-Roller Actuator SPDT (Sides)	HC150477	2	C2M-885 —
Switch-Cover RMT Kit (MTS-RMT)	HC118894	2	C2M-885 —
Switch-Start Solid State (Relay) (RMT Gearmotor)	HC150893	2	C2M-885 —
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PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Switch-Toggle 3PDT Center OFF (Selector)(Switch Box)	HC150465	2	C2M-885 —
Switch-Toggle DPDT (Voltage Setting Switch)	HC150461	1	C2N —
Switch-Toggle SPST (MTS)(Switch Box)	HC159235	2	C2M-885 —
Switch-Toggle SPST (DAY/NIGHT)(Switch Box)	HC159235	2	C2M-885 —
Switch-Toggle SPST (Cabinet)(Switch Box)	HC159235	1	C2M-885 —
Tank-Mix 6 Gal.	HC196100	2	C2M-885 —
Thermometer-Barrel (Shroud Assy.)	HC161004	1	C2M-885 —
Thermostat-Kit (Cabinet)	HC118813	1	C2M-885 —
Thermostat & Retainer -Kit(Day & Night)	HC119989	2	C2M-885 —
Timer-.05-3S DOM 24V (Switch Box)	HC150560	2	C2M-885 —
Timer-DOB .5-60 SEC DOB 24VAC (Switch Box) ..	HC150261	2	C2M-885 — E2M-1547
Timer-DOB .5-45 SEC 24VAC (Switch Box)	HC150261-01	2	E2M-1548—
Timer-5 Minute Mech (Switch Box)	HC150218	2	C2M-885 —
Timer-Recycle ADJ 31S ON/31M 24-240V 1A (Switch Box)	HC150186-01	2	C2M-885 —
Tool-O-Ring Removal	HC169374	*	C2M-885 —
Transformer-CL2 208/240PRI/24SEC	HC150181	2	C2M-885 —
Tray-Drip 26" Black	HC196108	1	C2M-885 —
Trimstrip-Assy. EF Decal 26 inch	HC115292-03	1	C2M-885 — I2M
Trimstrip-Assy. Platinum Series 26:	HC1203355	1	I2M —
Trimstrip-Assy. SST 26 inch (CARVEL ONLY)	HC115292-05	1	C2M-885 —
Tube-Air 7-1/2"	HC138170-02	2	C2M-885 —
Tube-Assy. Drain 16-7/16" (CARVEL ONLY)	HC115004-02	1	C2M-885 —
Tube-Assy. Drain 20-1/4"	HC115004-01	1	C2M-885 —
Tube-Assy. Mix Inlet (MTS Hose Assy.)	HC118836	2	C2M-885 —
* As Required ** Items Included In O-Ring Kit No. HC120315 *** LH or RH — Left or right hand is determined as you face the front of the freezer. MTS = Mix Transfer System NLA = No Longer Available ACR = Air Cooled Remote AC = Air Cooled WC = Water Cooled			

**Use only original or authorized replacement parts with this freezer.
Use of unapproved parts will void warranty.**

Alphabetized Parts List for Model 4000EP

Important: All parts shown are for standard models designed for 230V/1PH/60HZ or 203-230V/3PH/60HZ.

PART DESCRIPTION	PART NUMBER	QTY	SERIAL NUMBER (FROM - TO)
Tube-Assy. Pickup (MTS Hose Assy.)	HC118842	2	C2M-885 —
Clip-Tube Retainer	HC162324	2	C2M-885 —
O-ring	HC160502	2	C2M-885 —
Port-Assy. Inlet Mix/Air	HC118765	2	C2M-885 —
Tube-Assy. Mix Inlet	HC118836	2	C2M-885 —
Tube-Assy. Suction Cap Drier	HC120123	1	C2M-885 — I20
Tube-Drain Support	HC138919	1	C2M-885 —
Tube-Mix Feed Clamp (Mix Feed Seal)	HC139349	2	C2M-885 —
Tubing-3/8 ID x 1/2 OD	HC196068	2.25'	C2M-885 —
Valve-Access	HC155419	2	C2M-885
Valve-Assy. Water (Complete)			
Valve-Water	HC155410	2	C2M-885 —
Valve-Automatic Expansion (Cylinder)	HC155493	2	C2M-885 —
Valve-Check 5/8 ODF Sweat (ACR)	HC155487	2	C2M-885 —
Valve-Head Pressure Control (ACR)	HC155454	2	C2M-885 —
Valve-Solenoid 3/8 OD 24VAC	HC155471	3	C2M-885 — H2M-2861
Valve-Solenoid 24V	HC155491	3	H2M-2862—
Valve-Thermostatic Expansion (Cabinet Refrigeration System-134a)	HC155399	1	I20 —
Valve-Water	HC155410	2	C2M-885 —
Valve-Water Repair Kit	HC155444	*	C2M-885 —
Washer-Spring Wave SST	HC160173	2	C2M-885 —
Washer-Flat #6 Brass (RMT Cover Switch Kit)	HC160393	4	C2M-885 —
Washer-Flat #6 Brass (Switch Assemblies)	HC160393	6	C2M-885 —
Washer-Flat 3/8 SST (MTS)	HC160169	4	C2M-885 —
Washer-Lock #10 SST (Mix Feed Seal)	HC160166	6	C2M-885 —
Washer-Lock 3/8 SST (MTS)	HC160170	4	C2M-885 —
Washer-Shaft Seal (Bushing) (Seal Shaft Assy. HC111875)	HC133098	2	C2M-885 — E2N
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