

ELECTRO FREEZE®

Replacement Parts Manual with Illustrations

FREEDOM 360°
Series

**Combination Soft Serve and
Shake Freezer**

Model 15-77CMT

P/N 184928-01 4/06

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.

Place your parts order through your local authorized Electro Freeze Distributor. Returned parts must receive authorization prior to shipment.

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

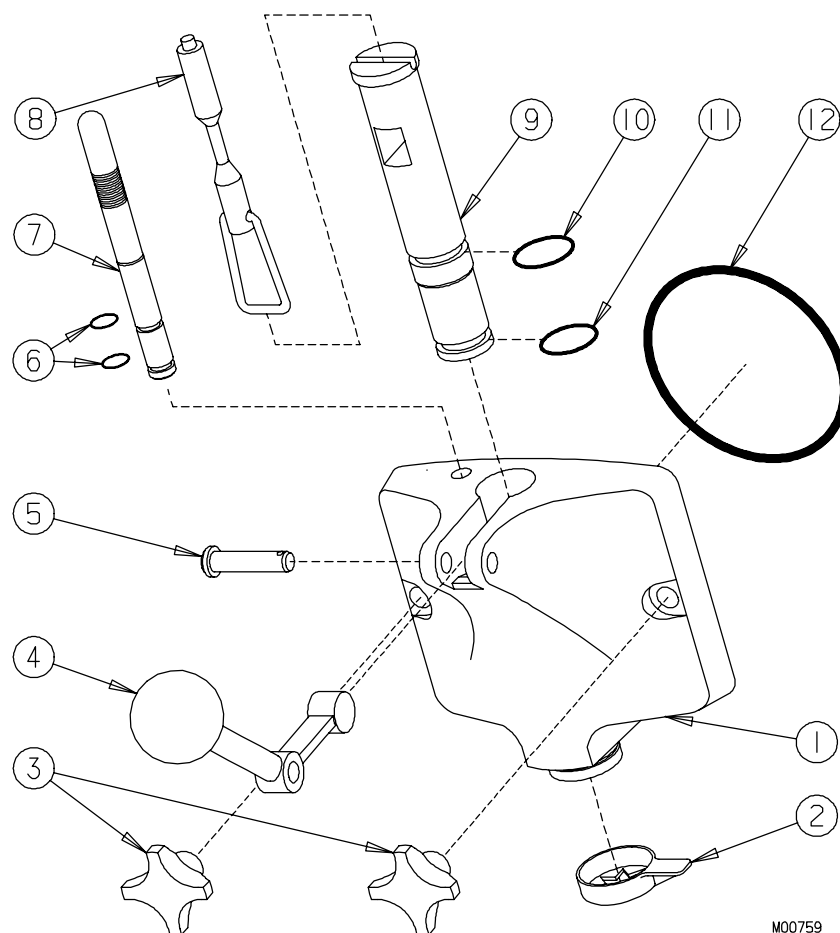
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M00759

Figure 1 Soft Serve Head Assembly

Item	Part No.	Description
*	HC118902	Head-Assy. Ported w/Act & Bleed (Complete)
1	HC118566	Head-Assy. w/Actuator (HEAD ONLY)
2	HC196185	Nozzle-Serrated
3	HC136798	Knob-Hand
4	HC110007	Handle-Assy.Dispense w/Knob includes HC162629 Knob-Ball 3/8-16 THD Black
5	HC160268	Pin-Handle
6	HC160610	O-Ring-Plug
7	HC138149	Plug-Air Bleed
8	HC113426	Push Rod-Assy. Plunger Switch
9	HC139581	Plunger-Dispense Self Close
10	HC160501	O-Ring-Plunger - Upper
11	HC160582	O-Ring-Plunger - Lower
12	HC159309	O-Ring-Head

* Includes all items shown above - except 3 and 8.

Not shown:

HC114341 Stud-Assy. Cylinder 1-15/16 inch
 HC116410 Kit-Dispense Head Switch

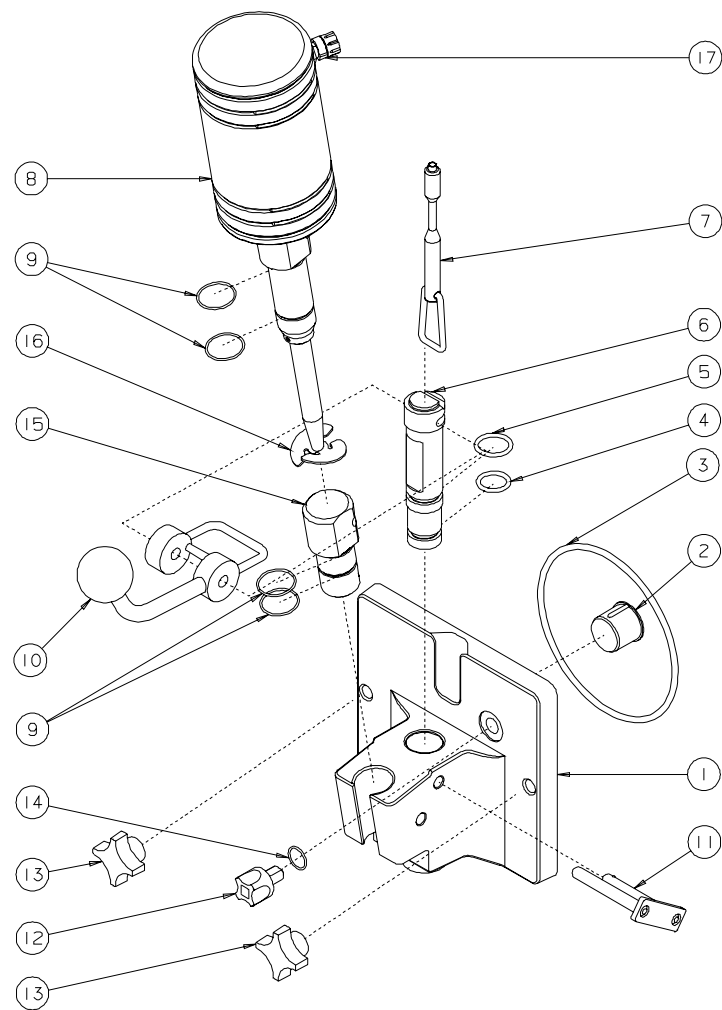
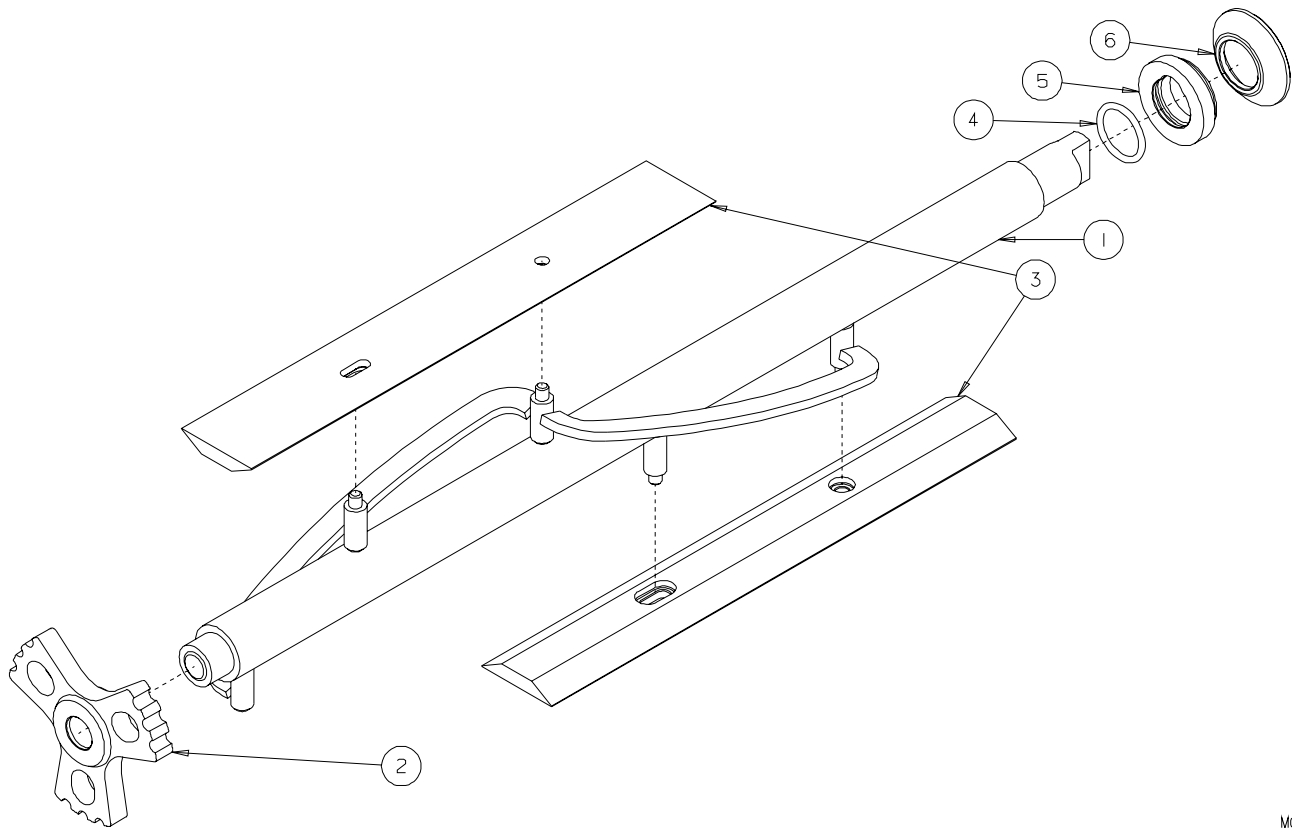


Figure 2 Shake Dispense Head Assembly

Item	Part No.	Description
*	HC116236	Head-Assy. Dispense (Complete)
1	HC116172	Head-Assy. Dispense w/Actuator
2	HC196072	Bushing-Beater Bearing
3	HC160622	O-Ring (Head)
4	HC160582	O-Ring (Plunger-Lower)
5	HC160501	O-Ring (Plunger-Upper)
6	HC136922	Plunger-Dispensing Black
7	HC114340	Push Rod - Assy. Plunger Switch
8	HC119324-03 ..	Spindle-Assy. 24 oz. Front Mnt 30°
9	HC160555	O-Ring (Spindle/Pivot Post)
10	HC113123	Handle-Assy. Spindle Head
11	HC113435	Keeper-Assy. Spindle

* Includes Items 1-6, 10, 11, 12 and 14.

Item	Part No.	Description
12	HC196066	Plug-Air Relief
13	HC136798	Knob-Hand
14	HC160621	O-Ring-Plug
15	HC135182	Post-Pivot (Optional)
16	HC119114	Kit-Spinner Replacement 30°
17	HC150889	Fuse-Slo Blow 1.0A
<i>Not shown:</i>		
	HC116410	Kit-Dispense Head Switch
	HC114341	Stud-Assy. Cylinder 1-15/16 inch



MO1535

Figure 3 Soft Serve Beater Shaft Assembly

Item	Part No.	Description
1	HC113438	Shaft-Beater
2	HC196085	Bushing-Cylinder
3	HC137334	Blade-Scraper Soft Serve
4*	HC160500	O-ring
5*	HC133098	Washer-Shaft Seal
6*	HC160557	Seal-Beater Shaft

* Items 4,5,6 can be ordered together as:
 HC111875 Seal-Assy. Shaft

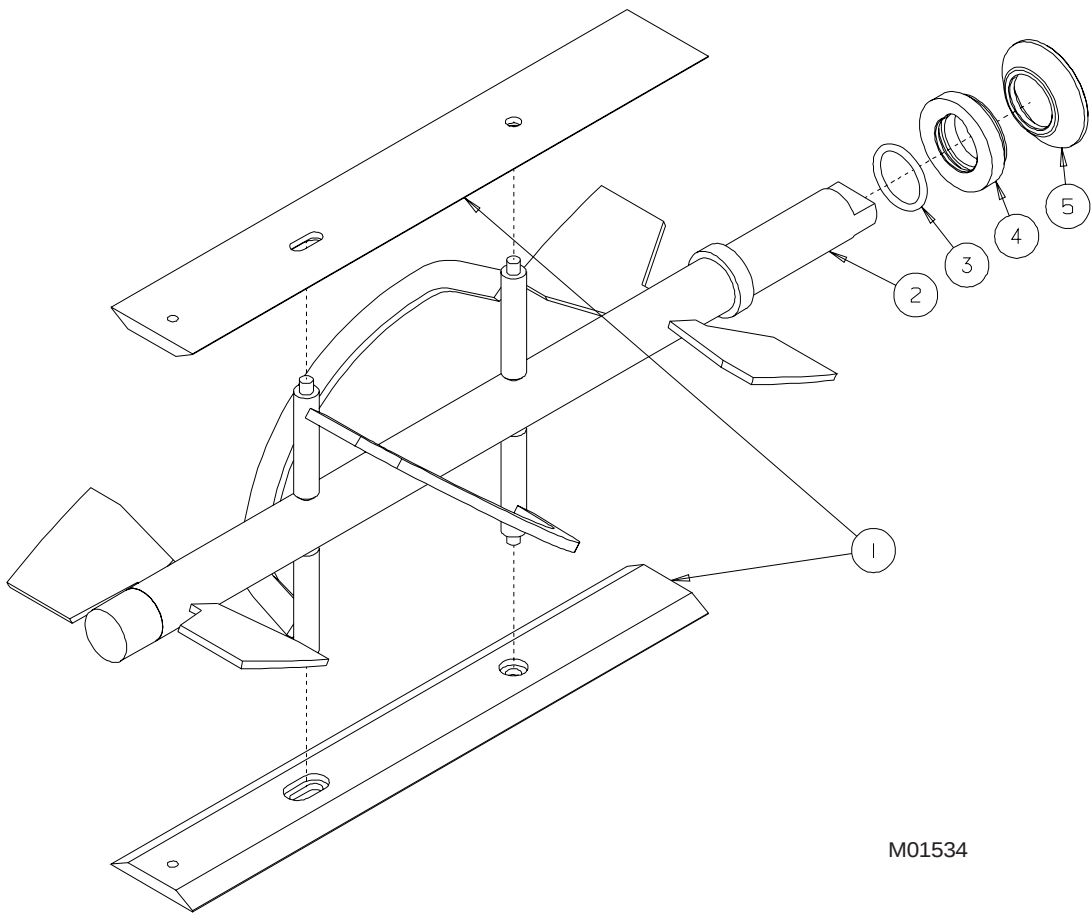
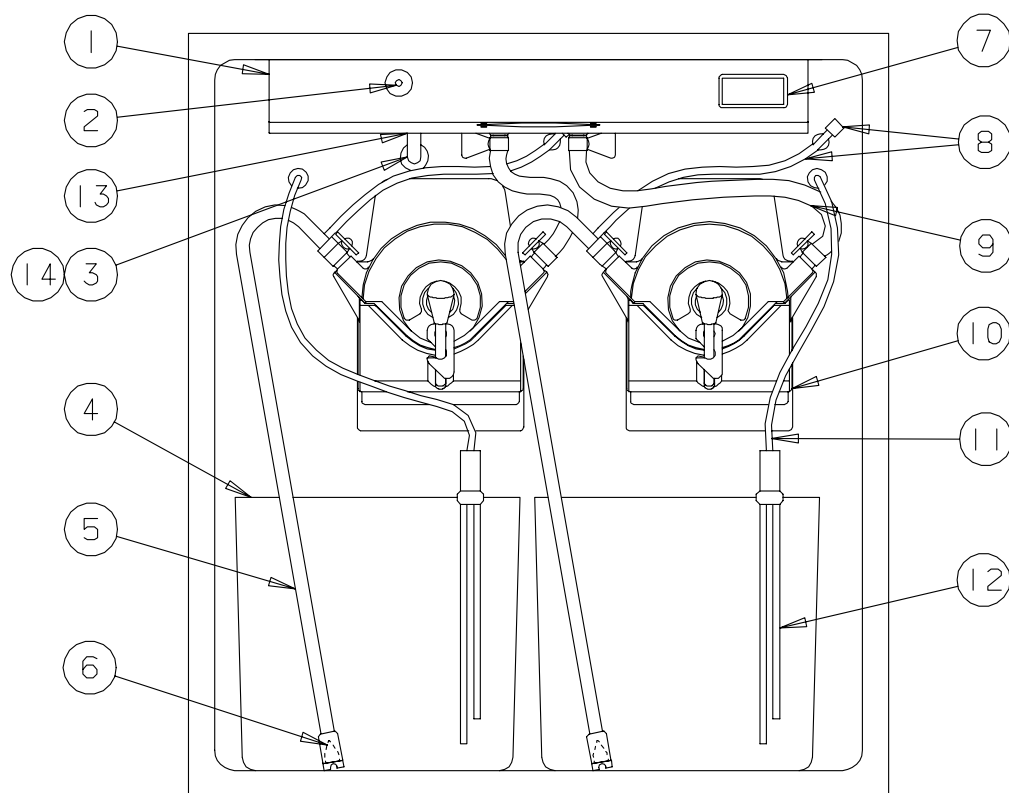


Figure 4 Shake Beater Shaft Assembly

item	Part No.	Description
1	HC137362	Blade-Scraper Shake
2	HC112789.....	Beater-Assy. Shake Short
3*	HC160500	O-ring (Seal)
4*	HC133098	Washer-Shaft Seal (Bushing)
5*	HC160557	Seal-Beater Shaft (Cup)

* Items 3,4,5 can be ordered together as:
HC111875..... Seal-Assy. Shaft



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Figure 5 Cabinet Parts

Item	Part No.	Description
1	HC117129-01	Shroud-Assy. Evaporator includes HC150532 Cord-Assy. Male Plug HC151105 Fan-Intake HC151076 Guard-Fan HC150509 Switch-Door Push Button HC161004 Thermometer
1A ..	HC150533	Cord-Assy. Female Plug
1B ..	HC155111	Coil-Evaporator
2	HC150509	Switch-Door Push Button
2A ..	HC118597	Actuator-Assy. Door Switch
3	HC196068	Tubing-.375 ID x .500 OD
4	HC196222	Tank-Mix 7 Gal. 13-1/4"
4A ..	HC113997	Cover-Assy. Mix Tank Front
4B ..	HC138165	Cover-Rear Mix
4C ..	HC199033	Boot-Mix Tube (Seal)
5	HC116069	Tube-Assy. Pickup
5A ..	HC116065	Clamp-Assy. Soft Hose 5/8

Item	Part No.	Description
6	HC199032	Duckbill-Inlet (Valve)
7	HC161004	Thermometer-Cabinet
8	HC138170	Tube-Air 11"
8A		Meter-Air (Order by Meter Number)
9	HC116094	Hose-Assy. Mix Braided
9A ...	HC138184	Hose-Transfer Black
9B ...	HC116065	Clamp-Assy. Soft Hose 5/8
10		MTS (See Exploded View)
11	HC150537	Cordset-Mix Level Probe
11A ...	HC150536	Receptacle-Molded Level Sensor
12	HC115397	Probe-Assy. Mix Level 10-3/4" (7 Gal.) includes 12A ... HC164027 . Decal-CMT Connection
13	HC160738	Clamp-Drain Hose
14	HC138919	Tube-Drain Support

Use only original or authorized replacement parts with this freezer.

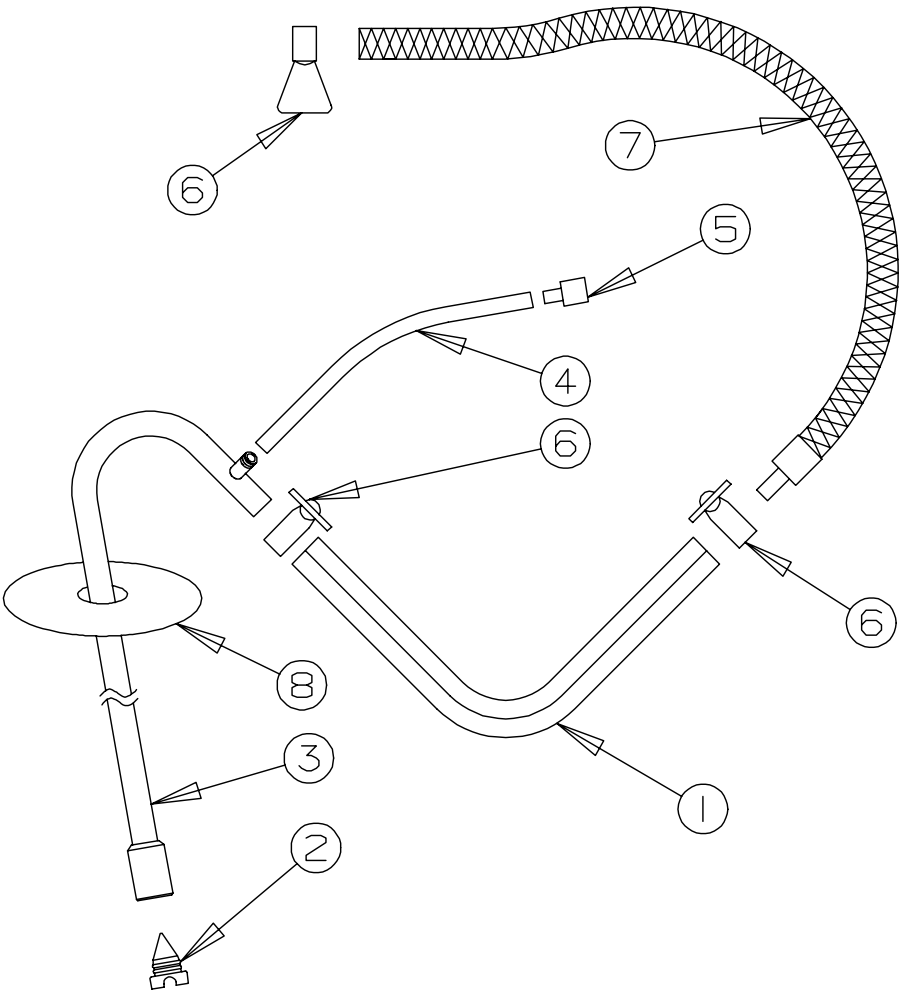
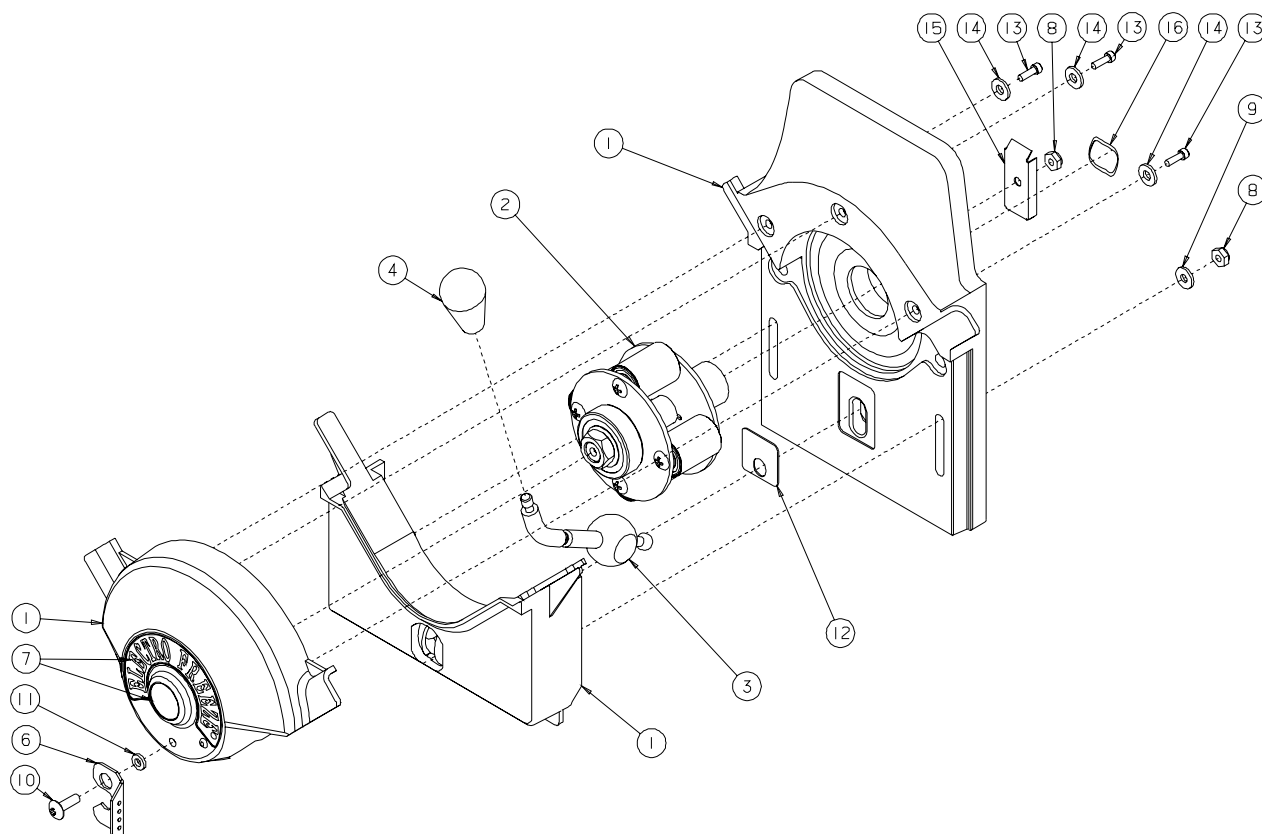


Figure 6 MTS Hose Assembly

Item	Part No.	Description
1	HC138184	Hose-Transfer Black
2	HC199032	Duckbill-Inlet (Valve)
3	HC116069	Tube-Assy.-Pickup
4	HC138170	Tube-Air 11" (Hose)
5	*	Meter-Air
6	HC116065	Clamp-Assy. Soft Hose 5/8
7	HC116094	Hose-Assy Mix Braided
8	HC199033	Boot-Mix Tube (Seal)

* Order by meter number



M01288

Figure 7 Mix Transfer System (MTS)

Item	Part No.	Description
*	HC116012	MTS-Assy. Housing (Complete)
1	HC117054	MTS-Assy. Housing-w/o roller
2	HC116009-01	Kit-Roller (Complete)
3	HC116164	Handle-Assy. Round (MTS)
4	HC162627	Knob-Oval Taper (Handle-MTS)
5	**	Hook-Swing (Lock-MTS)
6	HC165018	Decal-Mix Transfer
7	HC159421	Nut-EL Stop #10-32
8	HC160157	Washer-1/2 x .196 x 1/16
9	HC160026	Screw-TRPM #10-32 x 5/8 SST (Swing Lock)
10	HC160158	Washer-Flat .190 x .365 x .075 SST
11	HC138142	Plate-Pivot Cover
12	HC160307	Screw-SKHC #10-32 x 7/16 SST
13	HC159962	Washer-Flat #10 SST
14	HC160173	Washer-Spring Wave SST
15	HC117125	Actuator-Assy. Slide

* Includes all items above except items 1, 6, and 14.

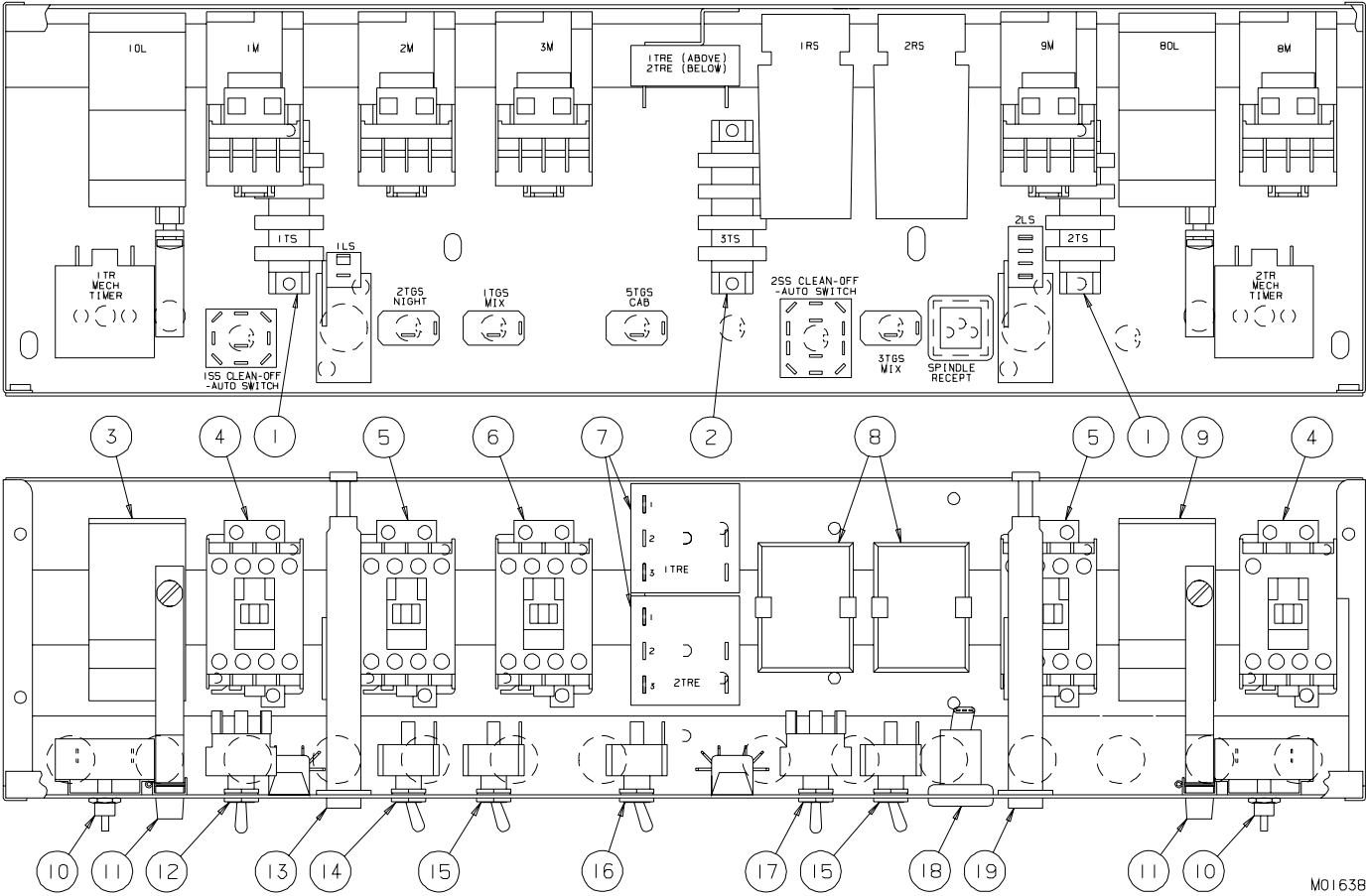
**Order by freezer serial number

Not Shown:

HC151129	Gearmotor-1/8 HP 115/208-230V (MTS)
HC138369	Bushing-Alignment
HC116312	Gauge-Assy. Pressure Test
HC116411	Kit-MTS Slide Switch
HC159219	Screw-TRPM 1/4-20x1 SST (MTS-Mounting)

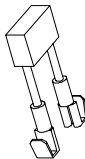
Figure 8 Switch Box (Sheet 1 of 2)

(Viewed from Top)

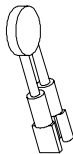


(Viewed from Front)

Detailed Drawings of
Filter and MOV Assemblies



Item #2A & 12A
Filter-Assy.
HC116125



Item #1A
MOV-Assy.
HC116188

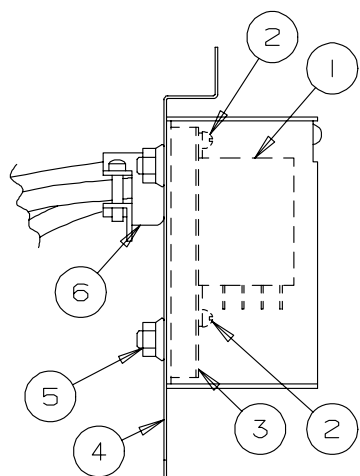
Figure 8 Switch Box (Sheet 2 of 2)

Item	Part No.	Description
1	HC150795	Strip-Terminal
1A	HC116188	MOV-Assy. (Not Shown)
2	HC150795	Strip-Terminal
2A	HC116125	Filter-Assy.(Not Shown)
3	HC118359	Relay-Assy. Overload 1 Phase 5-15A (Soft Serve) includes HC150140 Relay-SS Overload 1 Phase 5-15A HC150145 Adaptor-Overload Din Rail HC150150 Button-OL Reset
or	HC118361	Relay-Assy. Overload 3 Phase 3.7-12A (Soft Serve) includes HC150142 Relay-SS Overload 3 Phase 3.7-12A HC150145 Adaptor-Overload Din Rail HC150150 Button-OL Reset
4	HC150155	Contactor (Beater Motor)
4A	HC150156	Coil-Replacement (Not Shown)
5	HC150155	Contactor (Compressor)
5A	HC150156	Coil-Replacement (Not Shown)
6	HC150155	Contactor (Cabinet)
6A	HC150156	Coil-Replacement (Not Shown)
7	HC150208	Timer-12 Sec. DOB
8	HC150202	Indicator-Mix Level
8A	HC150119	Socket-Octal
8B	HC150120	Clip-Retainer (Set of 2)
8C	HC150540	Light-Mix Level
9	HC118359	Relay-Assy. Overload 1 Phase 5-15A (Shake) includes HC150140 Relay-SS Overload 1 Phase 5-15A HC150145 Adaptor-Overload Din Rail HC150150 Button-OL Reset
or	HC118361	Relay-Assy. Overload 3 Phase 3.7-12A (Shake) includes HC150142 Relay-SS Overload 3 Phase 3.7-12A HC150145 Adaptor-Overload Din Rail HC150150 Button-OL Reset
10	HC150215	Timer-5 min.
10A ...	HC162604	Knob-Timer (Not Shown)
11	HC118390	Lever-Reset & Button includes HC159036 Button-Reset
12	HC150465	Switch-Toggle 3PTD Ctr. Off (Selector)(Soft Serve)
12A ...	HC116125	Filter-Assy.(Not Shown)
13	HC114176-01 ...	Switch-Assy. Self Closing Plunger (Soft Serve) (See Figure 10)
14	HC150435	Switch-Toggle DPST (Day/Night)
15	HC150463	Switch-Toggle DPDT Ctr OFF (Mix Transfer)
16	HC159235	Switch-Toggle SPST (Cabinet)
17	HC150436	Switch-Toggle 4PTD Ctr. Off (Selector)(Shake)
18	HC150501	Harness-Receptacle Wiring (Spindle Motor)
19	HC115688	Switch-Assy. Plunger Shake Press. (See Figure 11)

Not Shown:

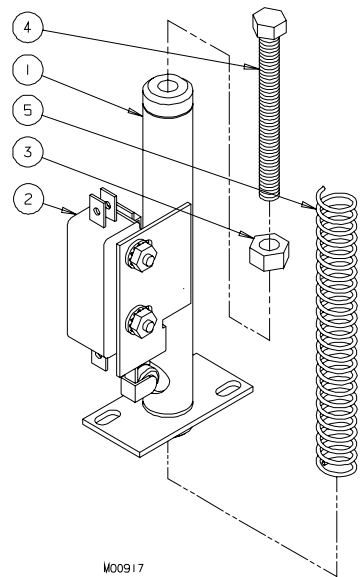
HC150438 Switch-Momentary Push SPST (Spindle Motor)

Figure 9 Relay Box — MTS



Item	Part No.	Description
1	HC150381	Relay-Flange Base w/Cover
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

Figure 10 Switch Assembly - Soft Serve



Item	Part No.	Description
*	HC114176-01	Switch-Assy. Self Closing Plunger
1	HC114174	Guide-Assy. Push Rod
2	HC150477	Switch-Roller Actuator SPDT
3	HC160104	Nut-HEX 1/4-20 ZN (Adjusting Bolt)
4	HC159965	Screw-HXHM 1/4-20 x 2-1/2" ZN (Adjusting)
5	HC162323	Spring-Compression MW ZN

* Includes all items above.

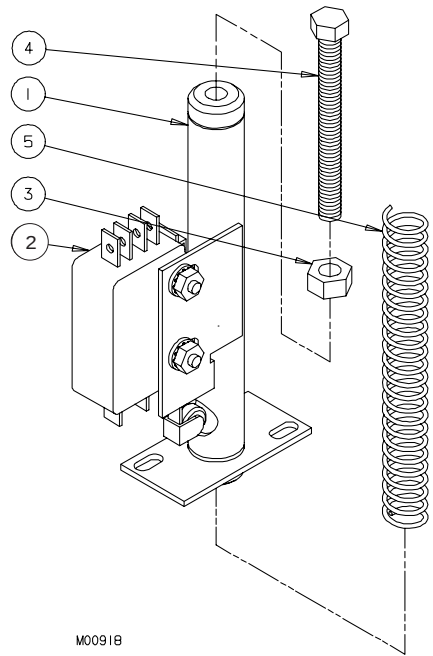
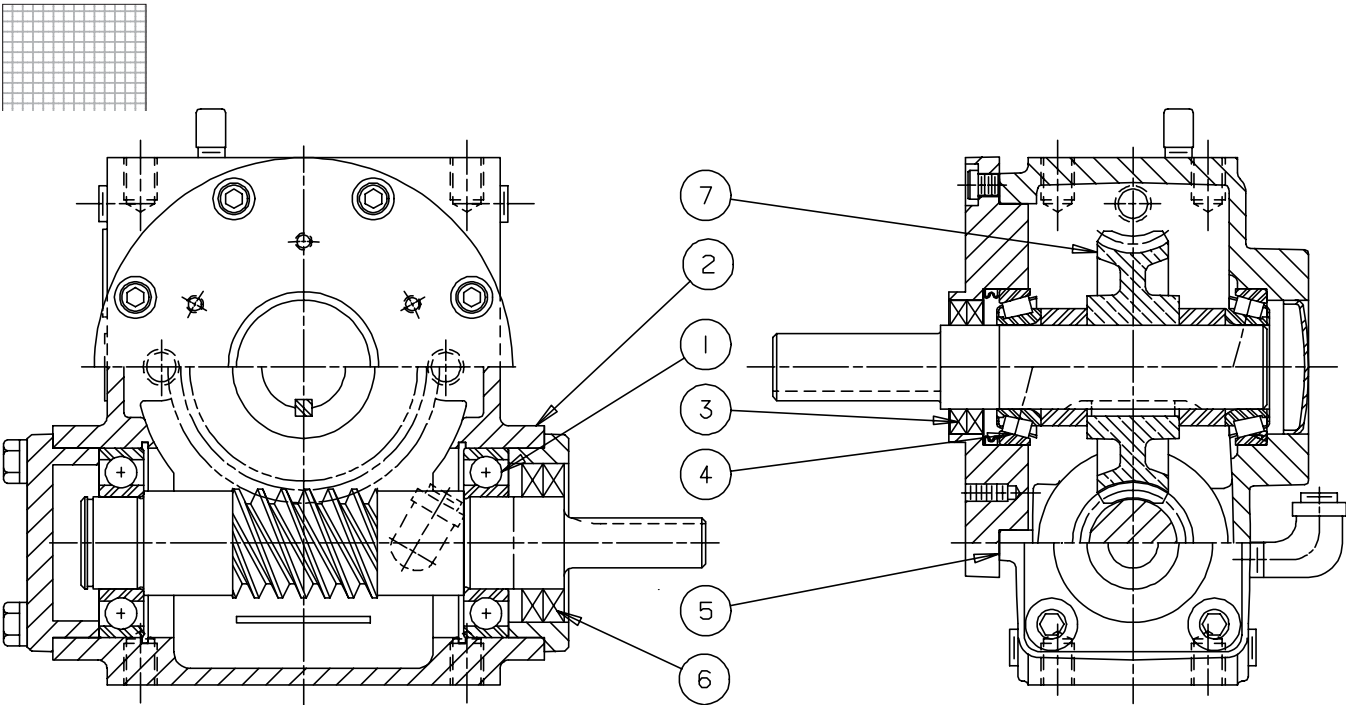


Figure 11 Switch Assembly - Shake

Item	Part No.	Description
*	HC115688	Switch-Assy. Plunger Shake Press.
1	HC114270	Guide-Assy. Push Rod
2	HC150478	Switch-Roller Actuator DPDT
3	HC160104	Nut-Hex 1/4x20 ZN (Adjusting Bolt)
4	HC159993	Screw-HXHM 1/4-20x2-3/4 ZN
5	HC159374	Spring-Plunger Switch



M00830

Figure 12 Gear Reducer - Soft Serve

Model HCD926

153355 10:1 Ratio

ITEM	PART No.	DESCRIPTION	Quantity Required
1	153065	Bearing-Ball 1.378 ID x 2.835 OD	2 ea.
2	153066	Gasket-High Speed	1 ea.
3	153071	Seal-Slow Speed	2 ea.
4	153068	Bearing-Slow Speed Cone 1.25"	2 ea.
4A	153069	Bearing-Slow Speed Cup 2.328"	2 ea.
5	153070	Gasket-Slow Speed	1 ea.
6	153067	Seal-High Speed	2 ea.
7	153301	Gear-Slow Speed	1 ea.
	118742	Kit-Reducer Gasket Model HCD926	
	158055	Oil-Special Gear Lube	

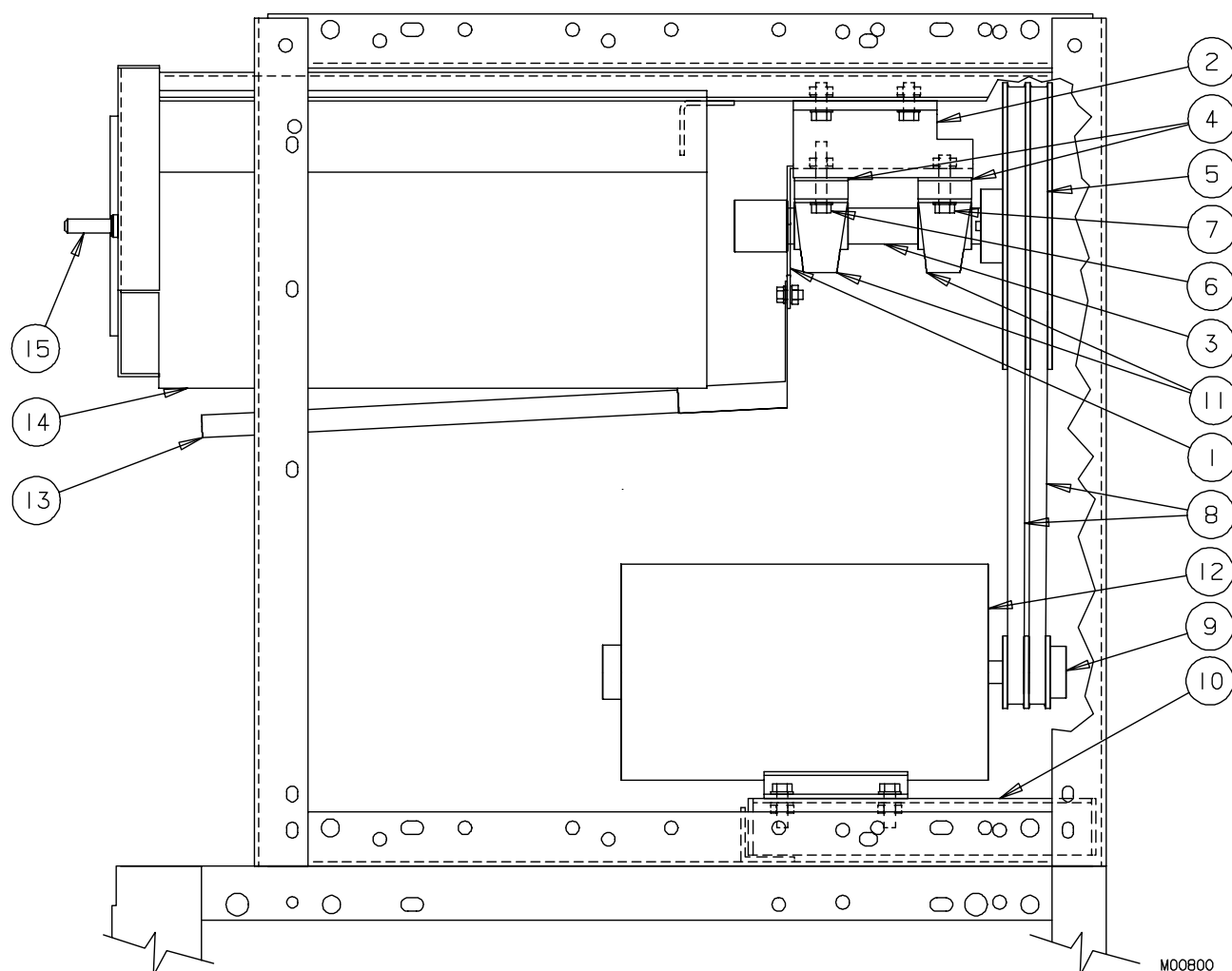


Figure 13 Drive Assembly - Shake

Item	Part No.	Description
1	HC136843	Hanger-Drain Tube
2	HC136688	Plate-Bearing Mounting
3	HC117336	Shaft-Assy. Drive
*4	HC135380	Shim-Bearing (16 Ga.)
	HC135381	Shim-Bearing (24 Ga.)
5	HC153644	Sheave-1" Bore 8.00 OD 1.75PD (Driven) includes
5A	HC153323	Key-Drive 1/4 Sq. x 1-1/2
6	HC160011	Screw-HXHC 5/16-18x1-1/2 ZN
6A	HC160131	Washer-Flat 5/16 ZN
6B	HC159947	Nut-HXSF 5/16-18 ZN
7	HC160347	Screw-HXHC 5/16-18x1-3/8 ZN
7A	HC160131	Washer-Flat 5/16 ZN
7B	HC160142	Washer-Lock 5/16 ZN
8	HC153186	Belt-Poly V

* 1/8" - 1/32" Shims are available.

Item	Part No.	Description
9	HC139722	Sheave-10J 1.818PD x 7/8 (Drive)
9A	HC160495	Screw-SK Set 1/4-20 x 1/2 (2)
9B	HC153322	Key-Drive 3/16 sq x 1-1/2
10	HC114010	Plate-Assy. Motor
11	HC153030	Bearing-1 in. Pillow
	Ref. Only	Screw-set 1/4-20 x 5/16"
12	HC151088	Motor-1-1/2 HP (3 Ph) (Shake)
or	HC118142	Kit-Motor & Cap 1-1/2 HP (1 Ph) includes
		HC150236.... Capacitor-Run
		HC150235.... Capacitor-Start
13	HC116201	Tube-Assy. Drain
14	HC119146	Cylinder-Assy. Complete
15	HC114341	Stud-Assy. Cylinder 1-15/16

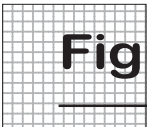
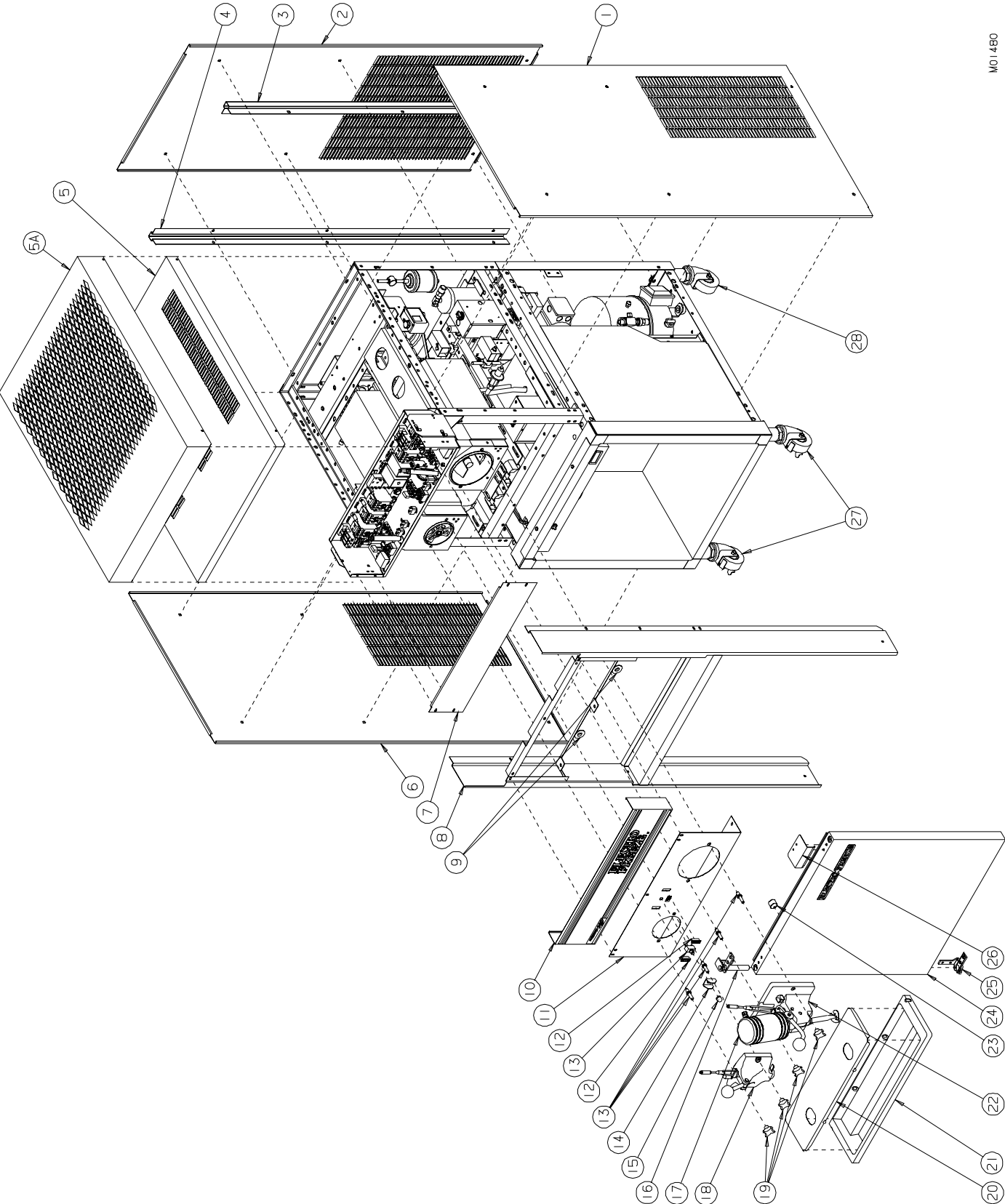


Figure 14 Panels (sheet 1 of 2)



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Figure 14 Panels (sheet 2 of 2)

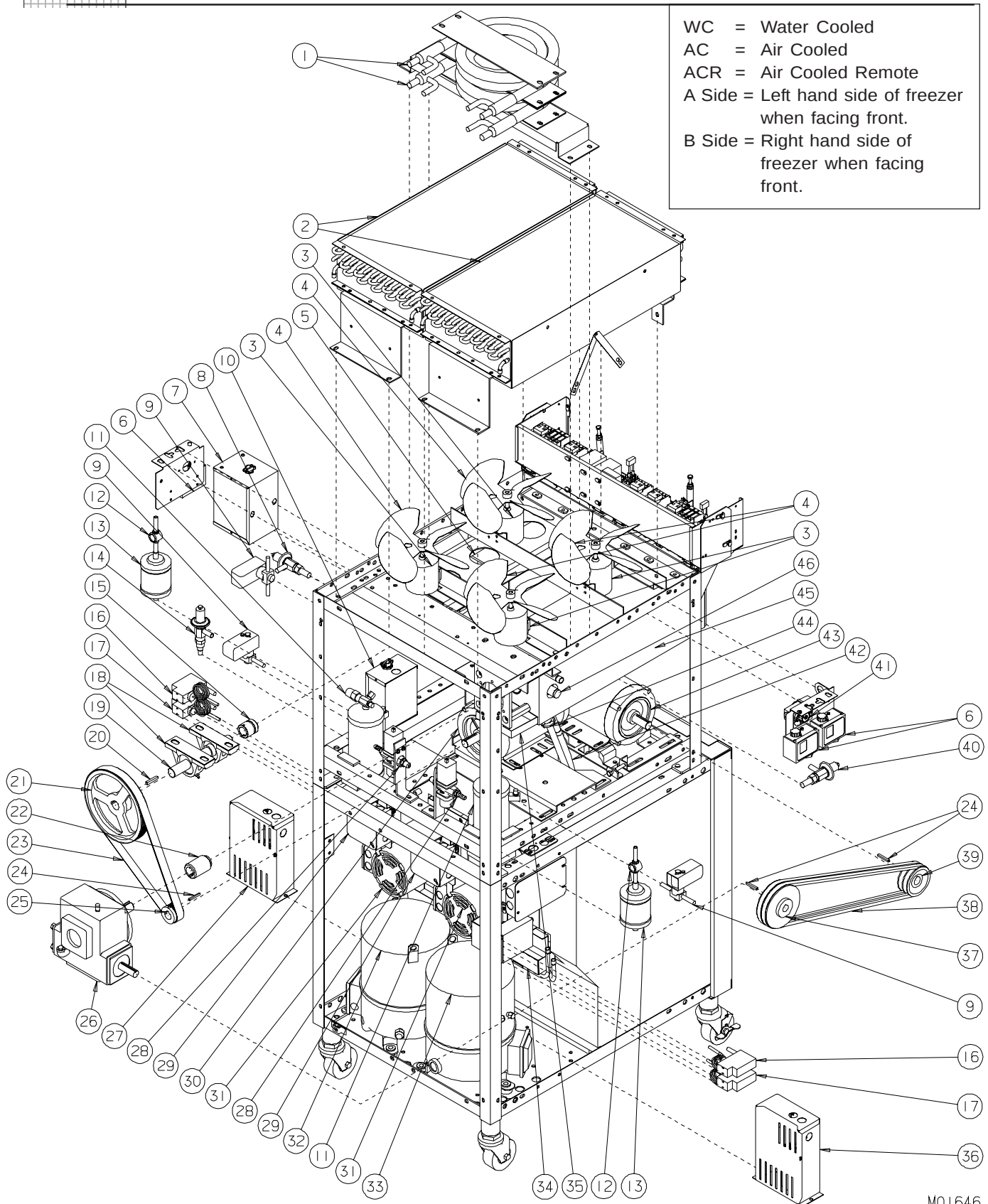
Item	Part No.	Description
1	HC136216	Panel-Side RH
2	HC136313	Panel-Rear WC and AC
2A	HC138982	Panel-Upper Rear ACR (not shown)
2B	HC138983	Panel-Lower Rear ACR (not shown)
3	HC130021	Channel-Rear RH (Corner)
4	HC135254	Channel-Rear LH (Corner)
5	HC116492	Panel-Assy. Top AC
5A	HC114157	Panel-Assy. Top WC and ACR (not shown)
6	HC136289	Panel-Side LH
7	HC116355	Cover-Assy. Electric Box
8	HC113983	Panel-Assy. Front includes HC159175 Catch-Bullet HC160289 Nut-Push Round (not shown)
9	HC199016	Grommet-Rubber 5/8 ID
10	HC115292-03	Trimstrip-Assy. EF Decal 26-inch includes HC165188-01 .. Decal-Trimstrip EF Logo
or	HC117901	Trimstrip-Assy. Sonic 26-inch includes HC165172 Decal-Trimstrip Sonic 26-inch
11	HC139222-01	Panel-Dispense
12	HC150540	Light-Indicator 230v
13	HC150438	Switch-Momentary Push SPST (Spindle Motor)
14	HC137896	Shield-Switch
15	HC150506	Seal-Push Button
16	HC162045	Hinge-Pivot 1-3/8 Top LH
16A	HC162052	Spring-Pivot Hinge LH (not shown)
17	HC119324-03	Spindle-Assy 24 oz. Front Mount 30° (See Figure 2)
18	HC118902	Head-Assy Dispense (See Figure 1)
19	HC136798	Knob-Hand
20	HC114608	Insert-Assy. Tray Drip 26-inch HC199030 Bumper-Rubber (Insert)
21	HC196108	Tray-Drip 26-inch Black
22	HC116236	Head-Assy Ported w/Act & Bleed (See Figure 2)
23	HC118597	Actuator-Assy.Door Switch (on inside of cabinet door)
24	HC114260	Door-Assy. Complete 26-inch includes HC136199 Pull-Door (Handle) HC160563 Gasket-Magnetic
25	HC162046	Hinge-Pivot 1-3/8 Bottom LH
26	HC136199	Pull-Door (Handle)
27	HC162105	Caster-1-1/4 ST PT w/Brake
27A	HC150736	Nut-Lock Conduit 1-1/4
28	HC162106	Caster-1-1/4 ST PT w/o Brake
28A	HC150736	Nut-Lock Conduit 1-1/4

WC = Water Cooled
AC = Air Cooled
ACR = Air Cooled Remote
RH = Right hand side of freezer when facing front.
LH = Left hand side of freezer when facing front.

Panel Decals & Labels	
Part No.	Description
HC165119	6" Air Flow
HC165025	Beater Warning
HC164031	Blade Installation
HC164119	Cleaning Instructions-Shake
HC164113	Cleaning Instructions-Soft Serve
HC165093	Clear Overlay
HC164027	CMT Connection
HC165013	CMT Patent
HC164122	MTS Trimstrip LH (switches)
HC164123	MTS Trimstrip RH (switches)
HC164004-01	Operating Instructions
HC165126	Panel Removal
HC-164135	Shake Push Button
HC165188-01	Trimstrip EF Logo 26"
HC165124	Top Air Discharge
HC165246	Warning - Pressurized

Hardware for Panels				
Panel	Screw	Nut-Speed	Spacer	Nut-Speed on Frame
Channel-Rear	HC160048	HC160117	n/a	n/a
Dispense	HC160076	HC159132	n/a	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				

Figure 15 Assembly - Rear View (Sheet 1 of 4)



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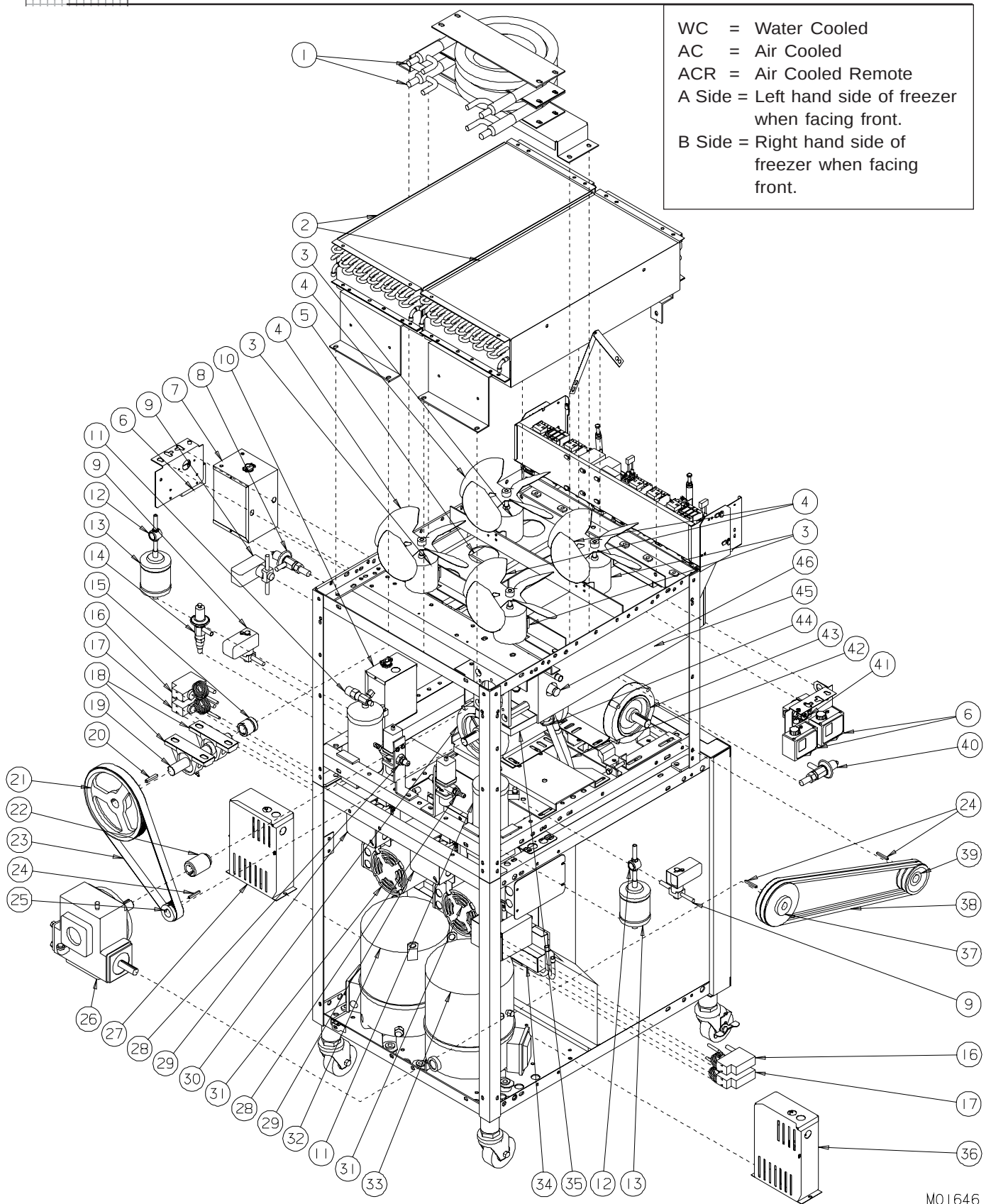


Figure 15 Assembly - Rear View (Sheet 2 of 4)

Item	Part No.	Description
1	HC155029	Condenser-Water
2	HC155120*	Condenser-Air
3	HC151077-01	Motor-Fan 50w 230v (Air Cooled)
4	HC159023	Blade-Fan 11" 36° (Air Cooled)
5	HC119146	Cylinder Assembly (B side)
5A	HC117159	Kit-Shake Press.Switch O-ring
5B	HC116201	Tube-Assy. Drain
5C	HC119156	Tube-Assy. Lower Heat
6	HC119989	Kit-Thermostat and Retainer (Cylinder)
7	-----	Box-Capacitor & Components (Also see item #43)
		<i>A Side Motor (Franklin) 1 phase</i>
	HC150318	.. Capacitor-Run HC150872 Capacitor-Start (2)
or		<i>A Side Motor (Leeson) 1 phase</i>
	HC150318	.. Capacitor-Run HC150319 Capacitor-Start
8	HC155451	Valve-Automatic Expansion (B side)
9	HC155421	Valve-Solenoid 208-240v
	HC155434	.. Kit-Solenoid Valve
10	-----	Box-Capacitor & Components (Also see item #30)
		<i>(B Side Motor (Franklin) 1 phase)</i>
	HC150236	.. Capacitor-Run HC150235 Capacitor-Start
11	HC155057*	Receiver-3 lb 3/8 ID Sweat
12	HC155059	Glass-Sight
13	HC155054	Drier-Filter 16 cu in
14	HC155449	Valve-Automatic Expansion (Cabinet)
15	HC133415	Cap-Coupling
16	HC155425	Cut out-High Pressure
17	HC155403*	Cut out-Low Pressure (A/C & W/C)
18	HC153030	Bearing-1 in. Pillow Block
19	HC117336	Shaft-Assy. Drive (See Figure 13)
20	HC153323	Key-Drive 1/4 SQ x 1-1/2
21	HC153644	Sheave-1 Bore 8.00 OD/PD (Driven - B side)
21A	HC160033	Screw-SK Set 5/16-18x3/8
22	HC111964	Coupling-Assy. 1 In. Drive
23	HC153186	Belt-Poly V (B side)
24	HC153322	Key-Drive 3/16 SQ x 1-1/2
25	HC139722	Sheave-10J 1.818 PD x 7/8 (Driver - B side)
25A	HC160495	Screw-SK Set 1/2-20 x 1/4
26	HC153355	Reducer-Gear LH 10/1(See Figure 12)
27	-----	Box-Capacitor and Relay (B side)(Compressor)(1 phase)(Also see item #32)
	HC119912	 Capacitor-Assy. HC151452 Capacitor-Run
	HC151465	.. Relay-Comp. Start
28	HC155410	Valve-Water .
28A	HC155444	Kit-Water Valve
29	-----	Box-Assy. Relay (See Figure 9)
30	HC118142	Kit- Motor (Franklin) & Capacitor 1-1/2hp 1 phase (B side)
	HC150236	.. Capacitor-Run HC150235 Capacitor-Start
or	HC151088	Motor (Franklin) 1-1/2 hp 3 phase (B side)
31	HC151129	Gearmotor-1/8hp (MTS)
32	HC119265	Compressor-Assy. 1 phase (Manuerop) (B side) includes compressor and
	HC119912	 Capacitor-Assy. HC165532 Insulator-Rotalock Valve
	HC151452	.. Capacitor-Run HC151465 Relay-Comp. Start
	HC155054	.. Drier-Filter HC160419 Rivet-Ratchet Plastic
	HC165522	.. Insulation-Compr. Wrap

--continued

Figure 15 Assembly - Rear View (Sheet 3 of 4)



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Figure 15 Assembly - Rear View (Sheet 4 of 4)

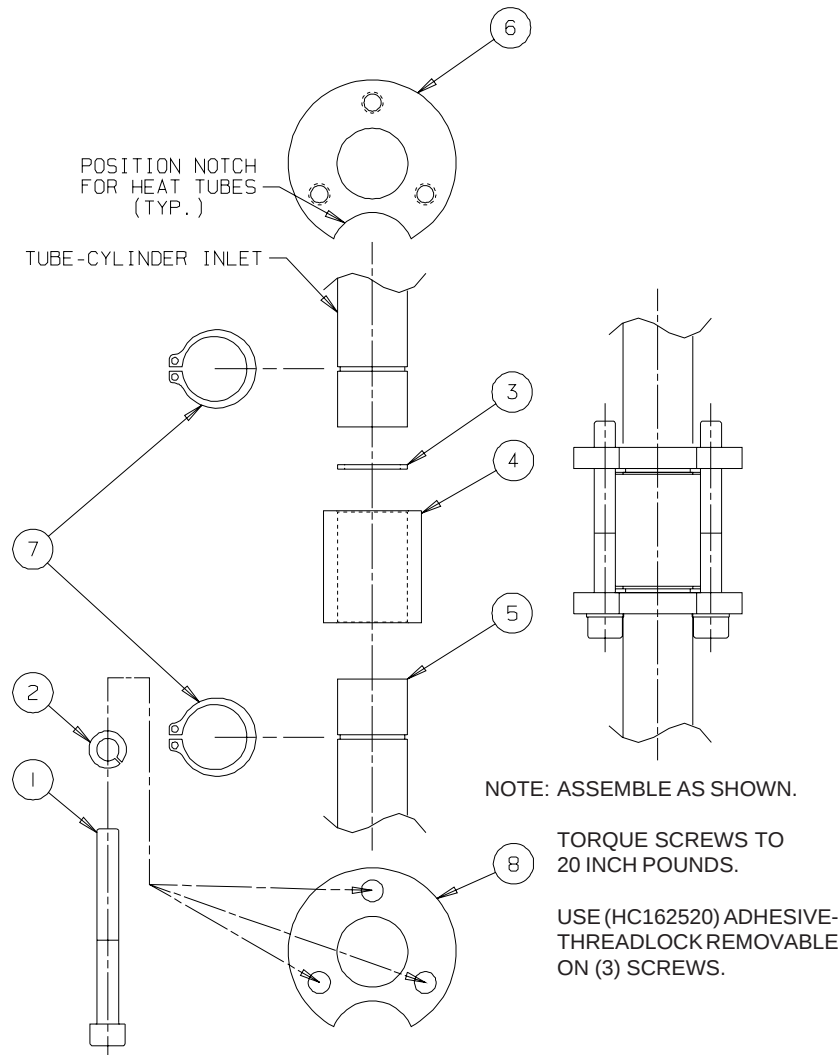
Item	Part No.	Description
or	HC119266	Compressor-Assy. 3 phase (Manuerop) (B side) includes compressor and HC155054 ... Drier-Filter HC165532 ... Insulator-Rotalock Valve HC165522 ... Insulation-Compr. Wrap HC160419 ... Rivet-Ratchet Plastic
32A	HC119327	Valve-Assy. Rotalock LH (1 & 3 phase)
32B	HC119326	Valve-Assy. Rotalock RH (1 phase)
32C	HC119337	Valve-Assy. Rotalock RH (3 phase)
33	HC118685	Compressor-Assy. 1 phase (Manuerop) (A side) includes compressor and HC119912 Capacitor-Assy. Start HC165532 ... Insulator-Rotalock Valve HC151447 ... Capacitor-Run HC151465 ... Relay-Comp. Start HC155054 ... Drier-Filter HC160419 ... Rivet-Ratchet Plastic HC165522 ... Insulation-Compr. Wrap
or	HC118686	Compressor-Assy. 3 phase (Manuerop) (A side) includes compressor and HC155054 ... Drier-Filter HC165532 ... Insulator-Rotalock Valve HC165522 ... Insulation-Compr. Wrap HC160419 ... Rivet-Ratchet Plastic
33A	HC119327	Valve-Assy. Rotalock LH (1 & 3 phase)
33B	HC119326	Valve-Assy. Rotalock RH (1 phase)
33C	HC119337	Valve-Assy. Rotalock RH (3 phase)
34	HC117133	Pan-Assy. Condensate
35	HC114374	Tube-Assy. Drain (A Side)
36	-----	Box-Cap. & Relay (Compressor 1 phase)(A side)(Also see item #33) HC119912 Capacitor-Assy. HC151447 Capacitor-Run HC151465 Relay-Comp. Start
37	HC153625	Sheave-3/4 Bore 4.75 OD 4.50 OD (Driven - A side)
37A	HC160495	Screw-SK Set 1/4-20 x 1/4
37B	HC153322	Key-Drive 3/16 SQ x 1-1/2
38	HC153168	Belt-A Side (A side)
39	HC153626	Sheave-7/8 Bore (Driver - A side)
39A	HC160495	Screw-SK Set 1/4-20 x 1/4
39B	HC153322	Key-Drive 3/16 SQ x 1-1/2
40	HC155490	Valve-Automatic Expansion (A side)
41	HC155483	Thermostat-Evap. 41° Fixed w/OFF (Cabinet)
42	HC118594	Tube-Assy. Lower Heat (A Side)
43	HC151052	Motor (Franklin)-2hp 3 phase (A side)
or	HC118140	Kit-Motor (Franklin) & Capacitors 2hp (1 phase)(A side) includes motor and HC150318 Capacitor-Run HC150872 Capacitor-Start (2)
or	HC118254	Kit-Motor (Leeson) & Capacitors 2hp (1 phase) (A side) includes motor and HC150318 Capacitor-Run HC150319 Capacitor-Start
44	-----	Mix Feed Seal Assembly (See Figure 16)
45	HC118821	Cylinder-Assy.Complete LH (A side)
46	HC117014	Kit-Press Switch Field Replace (A side)

Not Shown:

HC161216 Sensor-10K Thermistor
HC118594 Tube-Assy. Lower Heat (A Side)
HC155419 Valve-Access

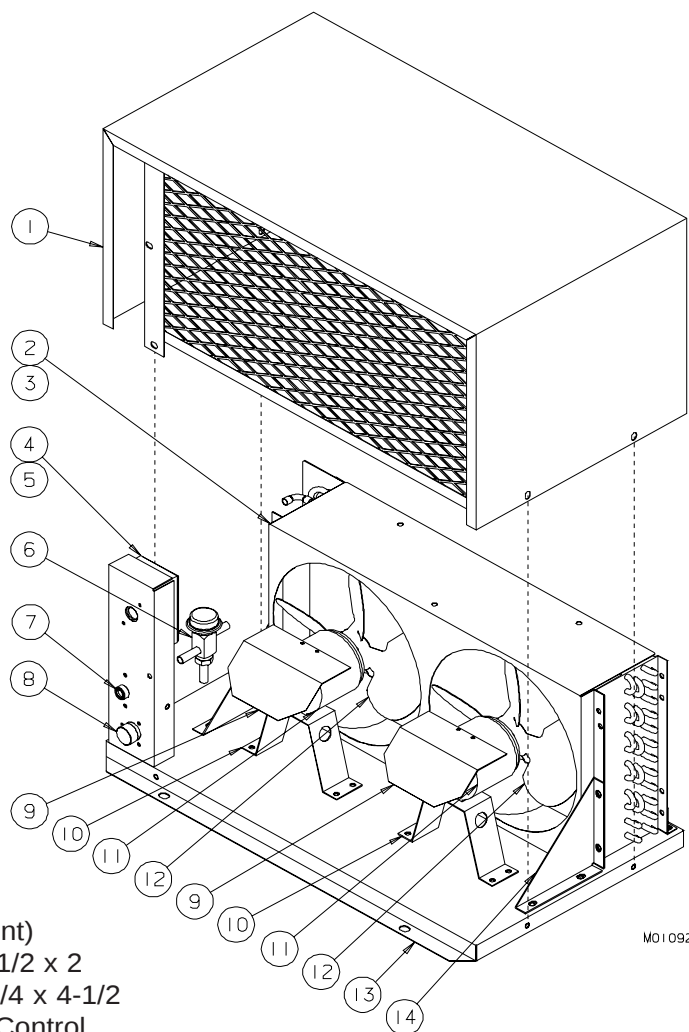
***ACR Components see Figure 17.**

Figure 16 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 (Soft Serve Side)
.....	HC140032	Tube-Mix Feed Clamp (Shake Side)
6	HC139352	Clamp-Ring Threaded
7	HC160312	Ring-Retaining 5/8 Ext. SST
8	HC139353	Clamp-Ring

Figure 17 Air Cooled Remote Condenser



Item	Part No.	Description
*	HC116781-01..	Condenser-Assy. 2 Hp Remote (Complete)
1	HC117207	Cover-Assy. Condenser
2	HC155120	Condenser-Air
3	HC138465	Shroud-Fan
3A	HC137628	Brace-Condenser (Front)
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
8	HC153418	Coupling-Refr. 1/2MQC 1/2 SW
8A	HC153502	Flange-Refr. Coupling Mount 1/2
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°
13	HC117206	Base-Assy. Condenser
14	HC137629	Support-Condenser

* Includes all items above.

Not Shown:

HC155058 Receiver-12 lb. Sweat Horiz.
 HC155465 Cut Out-Low Pressure
 HC155466 Control-Pressure Fan
 HC155487 Check-Valve 5/8 ODF Sweat
 HC119124 Kit-25 Foot Line Sets 404a
 HC119125 Kit-50 Foot Line Sets 404a

Accessories

Part No.	Description
196109	Beaker-150ml Syrup Calibration
196103	Bottle-Wash Plunger and MTS
158004	Brush-4 inch w/36-inch Handle (Cylinder) (Soft Serve)
158009	Brush-4 inch w/o Handle (Cylinder) (Soft Serve)
158005	Brush-6 inch w/36 inch Handle (Cylinder) (Shake)
158010	Brush-6 inch w/o Handle (Cylinder) (Shake)
158018	Brush-7/16 inch dia. x 12 inches Overall Length
158019	Brush-9/16 inch dia. x 30 inches Overall Length
158026	Brush-1 inch dia. 12 inches Long
158037	Brush-1/4 inch dia. x 18-1/2 inches Overall Length
162105	Caster-1-1/4 ST PT w/Brake
162106	Caster-1-1/4 ST PT w/o Brake
184236	Chart-O-Ring Shake CMT (Laminated)
184251	Chart-O-Ring SCP (Soft Serve) (Laminated)
115530	Kit-O-Ring 15 & 44 Series (Soft Serve)
116588	Kit-O-Ring 77 CMT Series (Shake)
117672	Kit-CMT Spare Parts
112978	Leg-6-inch
158000A	Lubricant-Petrol Gel (per tube)
158014	Sanitizer-Stera Sheen (per case)
158014A	Sanitizer-Stera Sheen (per jar)
158049	Scale-Overrun Z32
169374	Tool-O-Ring Removal
136652	Valve-Sample Syrup Calibration

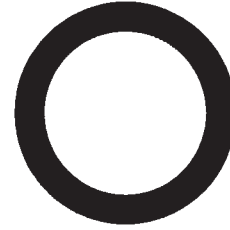
SOFT SERVE DISPENSING HEADS

Electro Freeze Model 15-77CMT

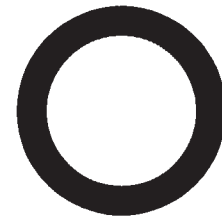


PART NO.
HC160610 ①

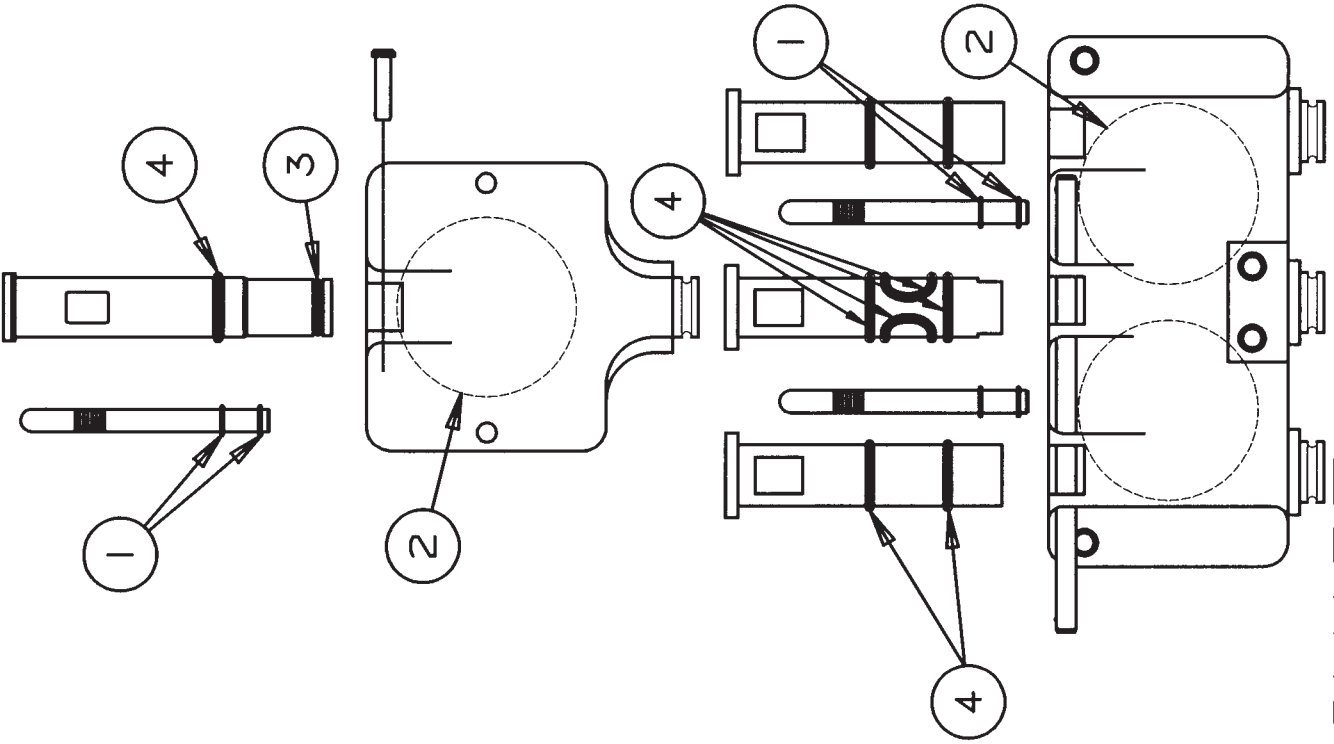
PART NO.
HC159309 ②



PART NO.
HC160501 ④



PART NO.
HC160582 ③



O-RING CHART

PH.NO. 309-755-4553

H.C. DUKE & SON, INC.

SHAKE DISPENSING HEAD

Electro Freeze Model 15-77CMT

