



H. C. DUKE & SON, LLC.
2116-8th Avenue • East Moline, Illinois 61244

REPLACEMENT PARTS MANUAL

with Illustrations



**SOFT SERVE
FREEZER**

**Model
GEN-103**

184583-01 - 8/17

ILLUSTRATIONS

Parts are listed on each page using terminology that best fits the function of the part. It is very important to know the serial number of the machine when ordering parts because many parts are not interchangeable from one serial number to another of the same model. The illustrations in this manual can be used as a reference for obtaining the correct part description and part number.

All parts listed in the manual should be ordered through:



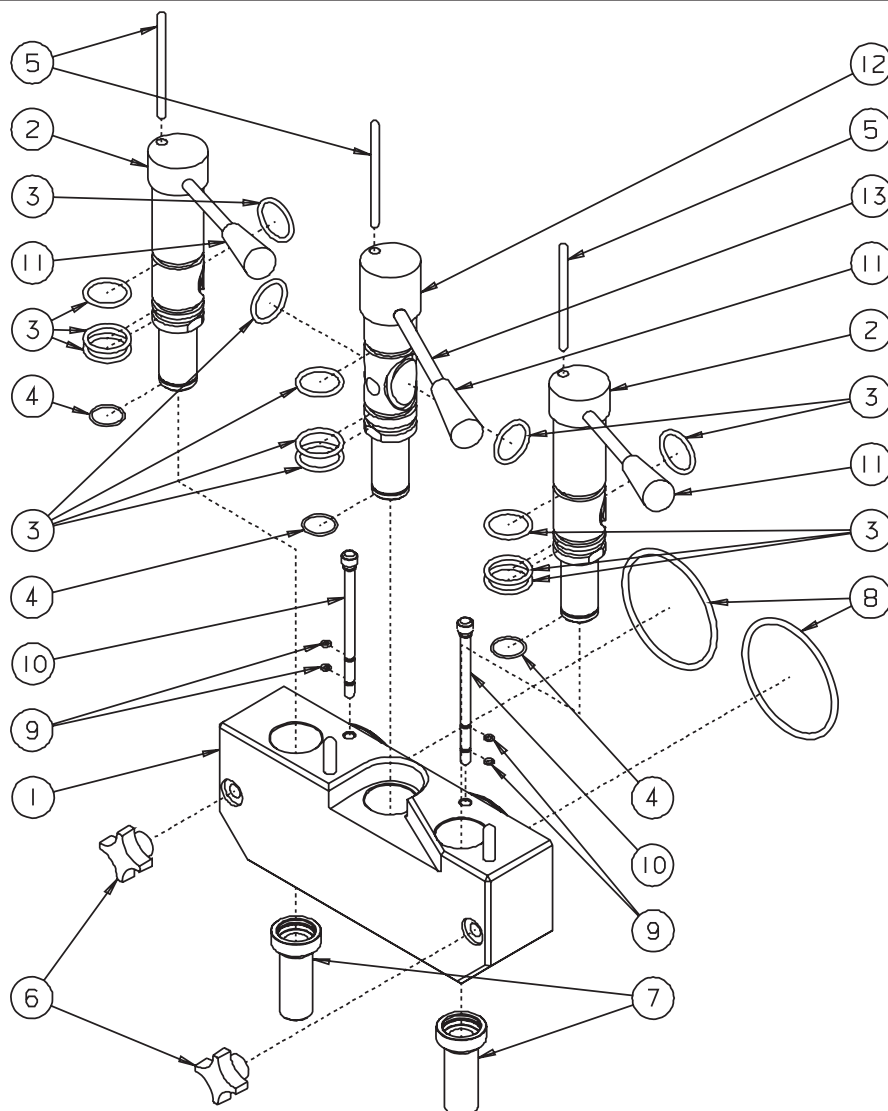
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PART II

Replacement Parts

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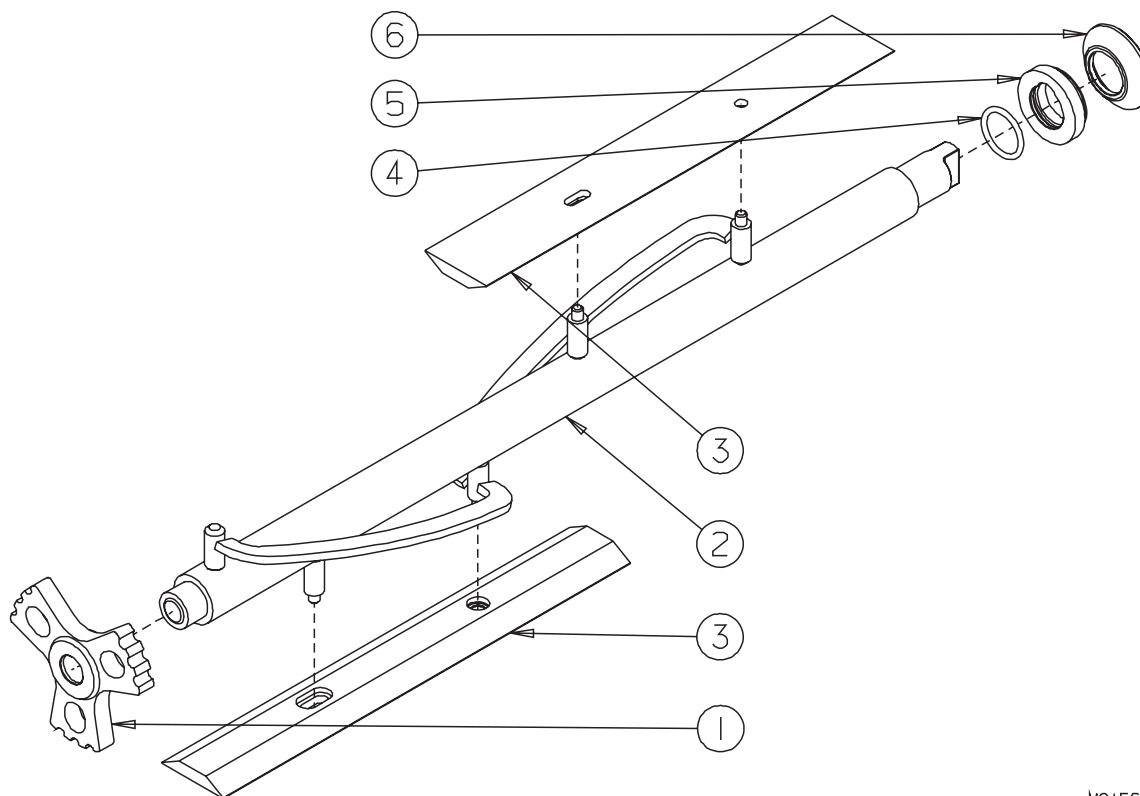
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Figure 1 Head Assembly

Item	Part No.	Description
*	HC119915	Head - Assy. Dispense (Complete)
1	HC119913	Head - Assy. w/Actuator (Less Parts)
2	HC118641	Spigot - Assy. Side w/Handle
3	HC159295	O-Ring (Spigot)
4	HC160584	O-Ring (Extension)
5	HC136794	Rod - Spigot Switch
6	HC162625	Knob - Hand
6A	HC114341-01	Stud - Assy. Cylinder 3-13/16"(not shown)
7	HC136713	Extension - Spigot
8	HC160583	O-Ring (4" Head)
9	HC160562	O-Ring (Air Bleed Plug)
10	HC115129	Bleeder - Assy.(Air Relief Plug)
11	HC162626	Handle - Tapered Black
12	HC137018	Spigot - Long Center (w/o handle)
13	HC136618	Rod - Handle, Center Spigot (Stainless Steel Extension only)
* Includes items 1-4 and 8-13.		

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

Figure 2 Beater Shaft Assembly

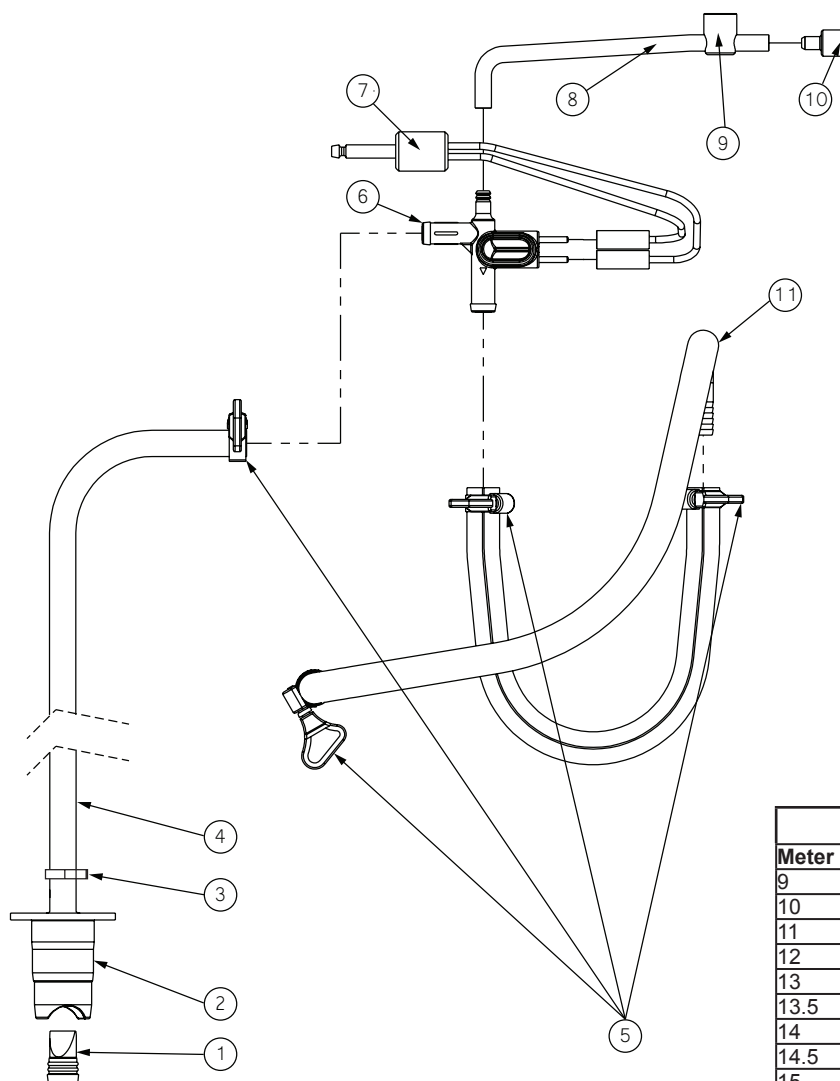


M01569

Item	Part No.	Description
1	HC196079	Bushing - Cylinder
2	HC113438-02	Shaft - Assy. Beater
3	HC137334	Blade - Scraper Soft Serve
4*	HC160500	O-Ring (Shaft Seal)
5*	HC133098	Washer - Shaft Seal
6*	HC160557	Seal - Beater Shaft

*Item (4-6) HC111875..... Seal - Assy Shaft (Complete-3 piece shaft seal)

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Figure 3 MTS—RMT Hose Assembly

Item	Part No.	Description
1	HC199032	Duckbill - Inlet
2	HC138705-02	Connector - Bag In Box
3	HC160727	Clamp - Plastic Ratchet
4	HC196326	Tubing - Clear (Cut to Length)
5	HC116065	Clamp - Assy Soft Hose 5/8"
6	HC121799	Port - Assy Inlet Mix Level Molded
7	HC150016	Mix Cord
8	HC138170-02	Tube - Air
9	HC162324	Clip - Tube Retainer
10	Meter-Air	(Order by meter number)
11	HC121638	Hose - Assy Mix Braided

AIR METERS	
Meter No.	Part No.
9	HC163423
10	HC163424
11	HC163425
12	HC163426
13	HC163421
13.5	HC163421-05
14	HC163427
14.5	HC163427-05
15	HC163428
15.5	HC163428-05
16	HC163429
16.5	HC163429-05
17	HC163430
17.5	HC163430-05
18	HC163431
18.5	HC163431-05
19	HC163432
19.5	HC163432-05
20	HC163433
20.5	HC163433-05
21	HC163434
21.5	HC163434-05
22	HC163435
22.5	HC163435-05
23	HC163436
24	HC163437
25	HC163438
26	HC163439
28	HC163440
30	HC163441
31	HC163442

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Figure 4 Mix Transfer System — RMT (Breakdown)

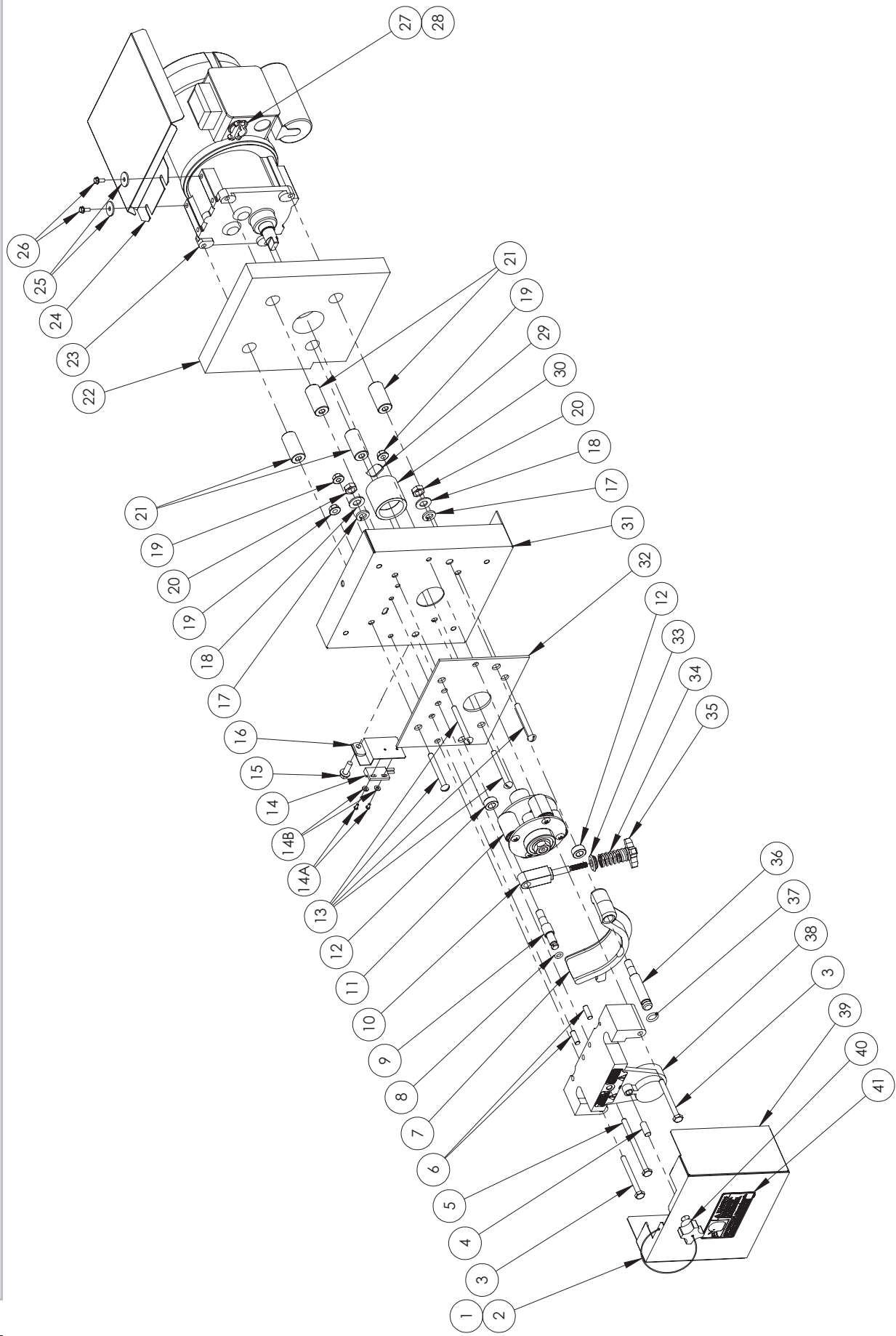
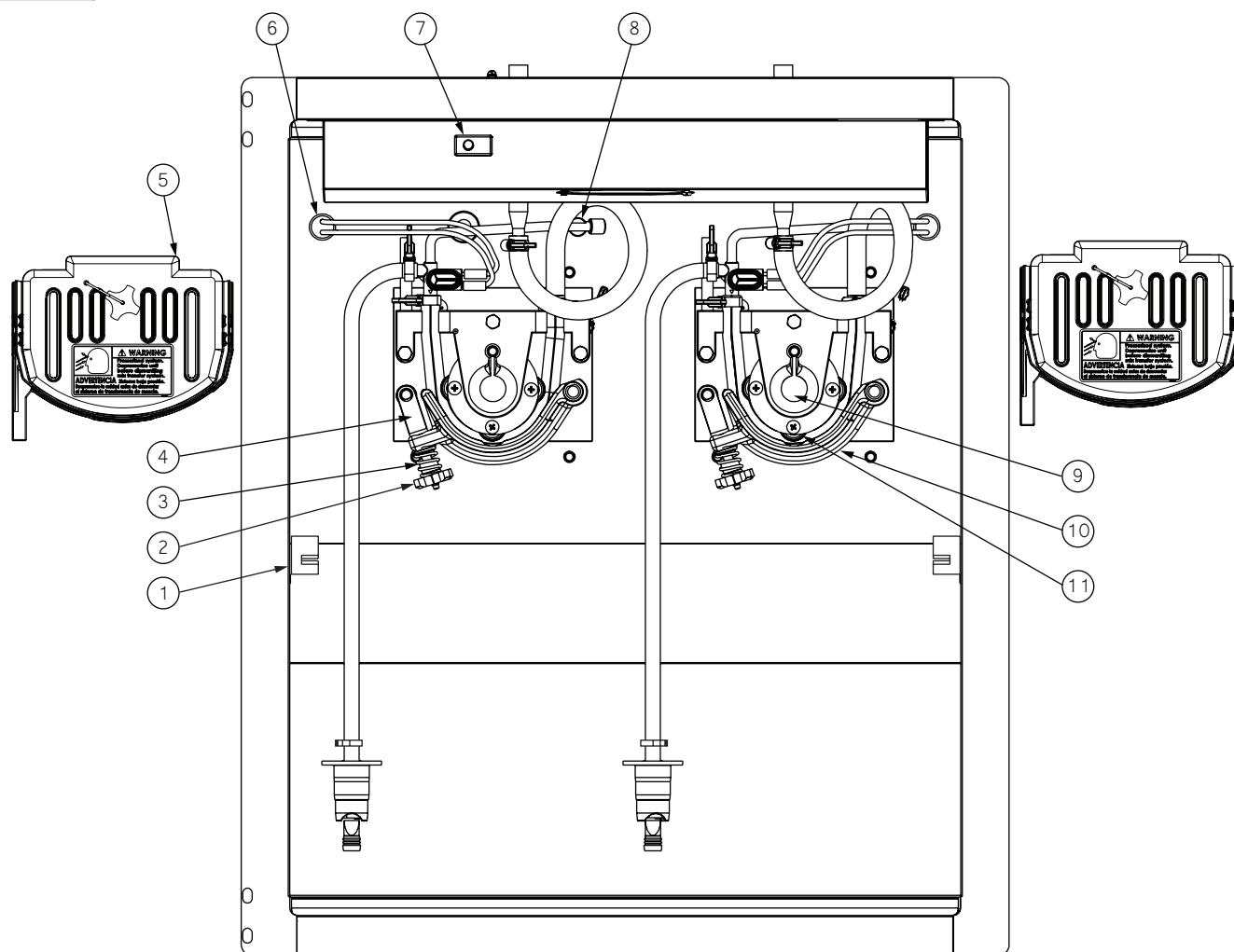


Figure 4 Mix Transfer System — RMT (Parts)

Item	Part No.	Description
*	HC118751-03	MTS - Assy Cab Red Line/Relief Bsn
1	HC138890	Lanyard - Wire
2	HC160508	Sleeve - Cable Stop 3/64
3	HC160464	Screw - HXHC 1/4-20x2 1/2 SST
4	HC160386	Stud - 5/16-18 X 3/4 SST
5	HC160465	Screw - HXHC 1/4-20x3 1/2 SST
6	HC160338	Pin - Dowel 1/4 Dia X 3/4 SST
7	HC139751	Shoe - Roller
8	HC160628	O Ring
9	HC138799	Arm - Swing Clamp
10	HC120504	Clamp - Assy Swing 1/4-20
11	HC116009	Roller - Assy Complete
12	HC138800	Spacer - Swing Arm
13	HC160093	Screw - TRPS 1/4-28x2-1/4 SST
14	HC161302	Switch - Slide/Cover
14a	HC160357	Screw - RDHM #4-40x1/4 Stl
14b	HC160393	Washer - Flat #6 Brass
15	HC159939	Screw - HXSF 1/4-20x11/16 SST
16	HC118763	Bracket - Assy Switch MNTG
17	HC160170	Washer - Lock 3/8 SST
18	HC160169	Washer - Flat 3/8 SST
19	HC159933	Nut - HXSF 1/4-20 SST
20	HC159927	Nut - Hex 3/8-16 SST
21	HC138793	Spacer - Motor
22	HC165524	Block - Insulation RMT
23	HC121027	Kit - Gearmotor 1/6hp Replacement Model RMT Includes:
		HC139046-01....Gauge - Shaft Alignment RMT
		HC139839.....Strap - Mt Motor Rear
		HC160173.....Washer - Spring Wave SST
24	HC141607	Cover - RMT Pump Motor
25	HC160137	Washer - Flat #10 X 3/4 Zn
26	HC160420	Screw - HXWF #8-32 X 3/8 Zn
27	HC150706	Connector - 3/8 Straight
28	HC118833	Cord - Assy Motor
29	HC160173	Washer - Spring Wave SST
30	HC139756	Shield - Drip
31	HC118764	Faceplate - Assy MTS
32	HC191527	Blank - Backup MTS
33	HC140711	Washer - Spring End
34	HC162327	Spring - Compression
35	HC140706	Knob - Fluted 1/4-20 Custom
36	HC138797	Arm - Shoe Pivot
37	HC160612	O Ring
38	HC138783-01	Support - Roller Bearing
39	HC118767	Cover - Assy RMT
		HC165246.....Decal - Warning Pressurized
		HC138889.....Knob - Cover RMT
		HC138890.....Lanyard - Wire
		HC160508.....Sleeve - Cable Stop 3/64
40	HC138889	Knob - Cover RMT
41	HC165246	Decal - Warning Pressurized

* Includes all items above.

Figure 5 Cabinet Parts

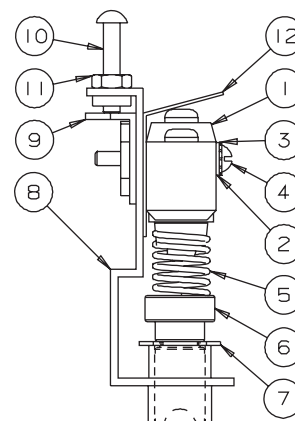
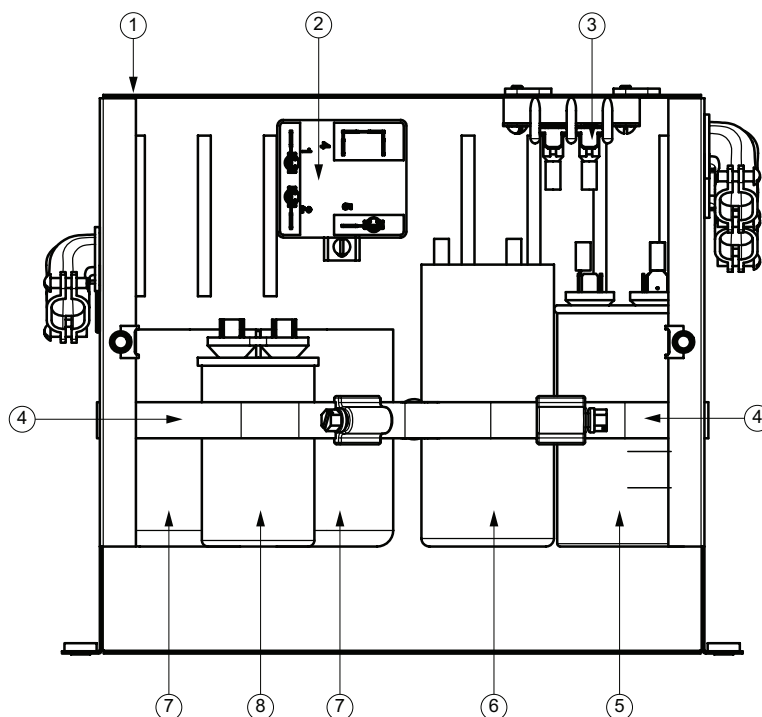
Item	Part No.	Description
1	HC161313	Switch - Proximity Reed NC
2	HC140706	Knob - Fluted 1/4-20 Custom
3	HC162327	Spring - Compression
3	HC140711	Washer - Spring End
4	HC138799	Arm - Swing Clamp
5	HC121798	Cover - Assy Mix Pump Molded
6	HC150536	Receptacle
7	HC150612	Switch
8	HC117092	Retainer - Air Line
9	HC138783-01	Support - Roller Bearing
10	HC139751	Shoe - Roller
11	HC116009-01	Roller - Assy Complete

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Figure 6 Spigot Switch Assemblies

Item	Part No.	Description
*	HC113903	Switch - Assy. Spigot (Side)
1	HC150456	Switch - Snap Button
2	HC160393	Washer - Flat #6
3	HC160392	Washer - Ext. Tooth #6 ZN
4	HC160296	Screw - RDHM #6-32 x 1-1/4 SST
5	HC162321	Spring - Spigot Switch
6	HC136124	Button - Spigot Switch
7	HC160303	Ring - Retaining 1/2 External
8	HC113902	Bracket - Assy. Spigot Switch Mtg.
9	HC113901	Bracket - Assy. Adjusting
10	HC160267	Screw - RDHM #8-32 x 7/8 Brass
11	HC160102	Nut - HEX #8-32 ZN
12	HC135744	Insulator - Switch

* Includes items 1-12.

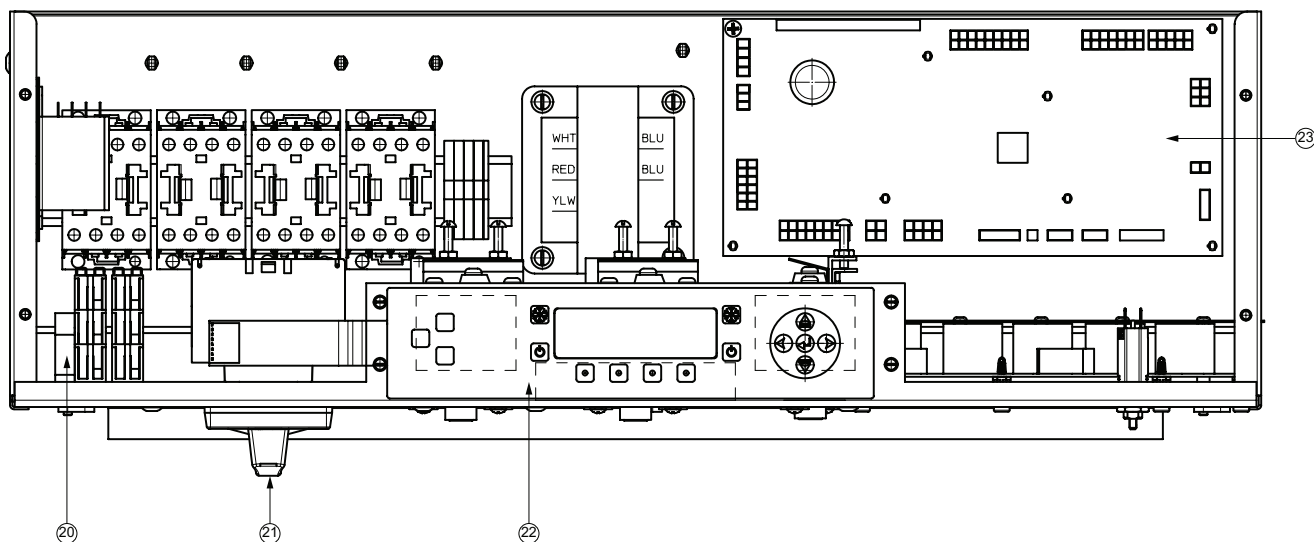
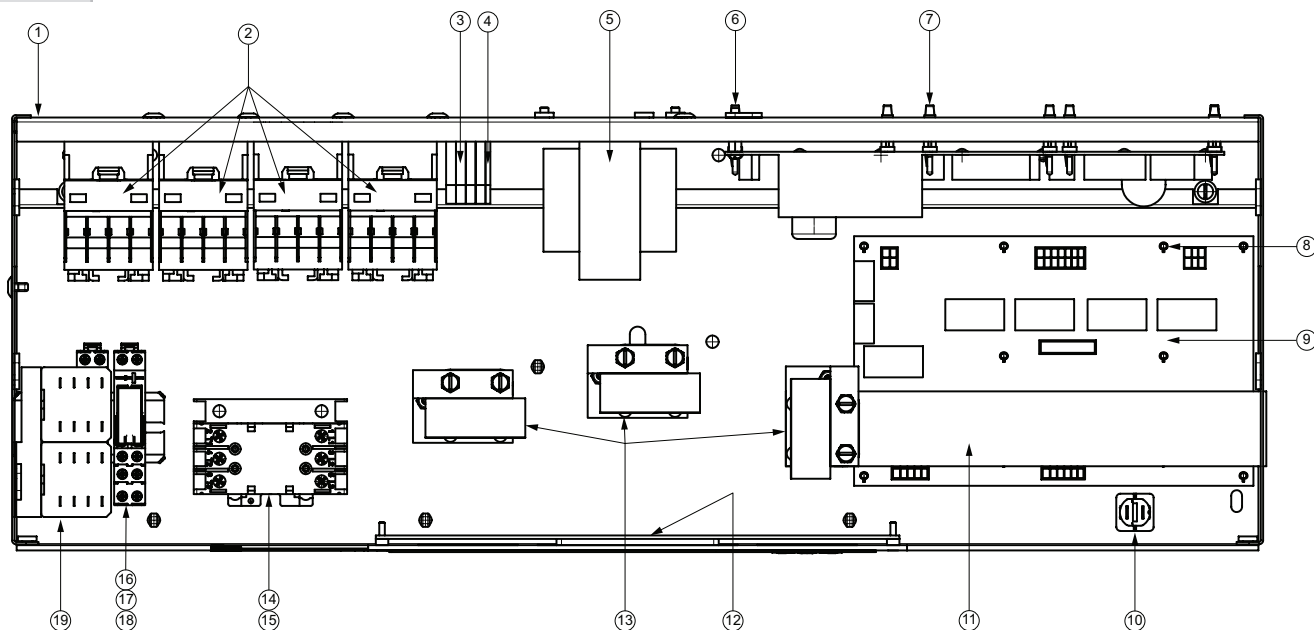
**Figure 7 Capacitor & Relay Box (1 phase)**

Item	Part No.	Description
1	HC120809-01	Box - Assy Cap & Relay Weldment
2	HC150029	Relay - Compressor COPZS
3	HC150798	Strip - Terminal
4	HC160739	Clamp - Hose 3 9/16-4 1/2, Screw
5	HC150403	Capacitor - Run
6	HC151445	Capacitor - Start
7	HC150294	Capacitor - Start
8	HC150244	Capacitor - Run

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Figure 8 Switch Box (Breakdown)

TOP VIEW



FRONT VIEW

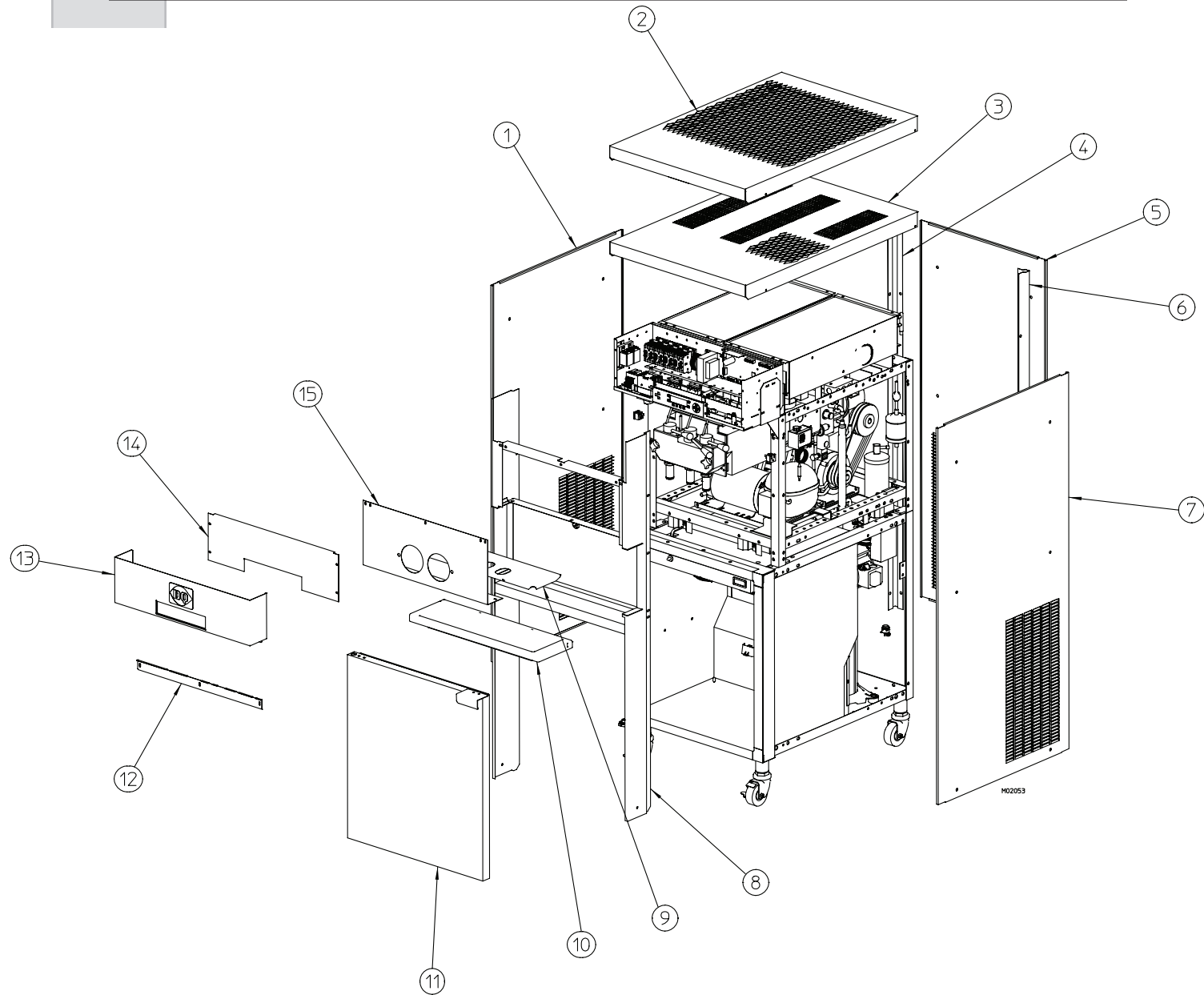
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Figure 8 Switch Box (Parts)

Item	Part No.	Description
1	HC121272	Box - Assy Electrical Weldment
2	HC150076	Contact - 3P 25A 24V Coil BF25
3	HC150591	Block - Terminal
4	HC150594	Stop - Terminal Block End
5	HC150181	Transformer - C12 208/240PRI/24SEC
6	HC160237	Standoff - Hex Male/Female #6-32 5/8
7	HC150927	Support - 5/8 Circuit Board
8	HC150038	Support - 1/2 Circuit Board
9	HC151702	Board - PC Relay
10	HC150182-01	Breaker - Circuit 4A Threaded
11	HC141350	Insulator - Relay Board
13	HC113903	Switch - Assy Spigot
14	HC151708	Switch - Disconnect
15	HC150994-05	Board - PCB UI B.5090
15	HC151708-01	Switch - Disconnect 4th Pole Add On
16	HC150098	Socket - Miniature Relay DPDT
17	HC150166	Clip - Miniature Relay Retaining
18	HC150044	Relay - Miniature DPDT 230V Au Contact
19	HC150343-01	Relay - Control Flange DPDT 12VDC
20	HC150999	Anchor - Din Rail
21	HC151709	Knob - Rotary Disconnect
22	HC150033	Membrane - Cab
23	HC151701-06	Board - PC Main B.4865

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Figure 9 Panel Breakdown (Breakdown)



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 Breakdown (Parts)

Item	Part No.	Description
1	HC136289	Panel - Side Lh
2	HC121303	Panel - Assy Top (Air Cooled)
3	HC121140	Panel - Assy Top (Water Cooled)
4	HC135254	Channel - Rear Lh
5	HC136313	Panel - Rear
6	HC130021	Channel - Rear Rh
7	HC136216	Panel Side Rh
8	HC121294	Panel Assy - Front
9	HC115132	Insert - Drip Tray
10	HC196108-01	Tray - Drip 26 Inch White
11	HC114262	Shell - Assy Door 26 In
12	HC141353	Trimstrip - Lower 26In
13	HC121375	Trimstrip - Assy W/Dq Decal
14	HC141323	Cover - Electric Box
15	HC140128-01	Panel - Dispense

Panel Decals & Labels	
Part No.	Description
HC165119	6" Air Flow
HC165025	Beater Warning
HC164031	Blade Installation
HC164452	Cleaning Instructions
HC165093	Clear Overlay
HC165013	CMT Patent
HC165002	General Purpose Recept
HC164110	MTS Connect Red Line
HC164127	Operating Instructions
HC165126	Panel Removal
HC165124	Top Air Discharge
HC165440-02	Trimstrip IDQ 26"
HC164477-01	Trimstrip LH
HC164021-01	Trimstrip RH
HC165246	Warning - Pressurized

AC = Air Cooled

WC = Water Cooled

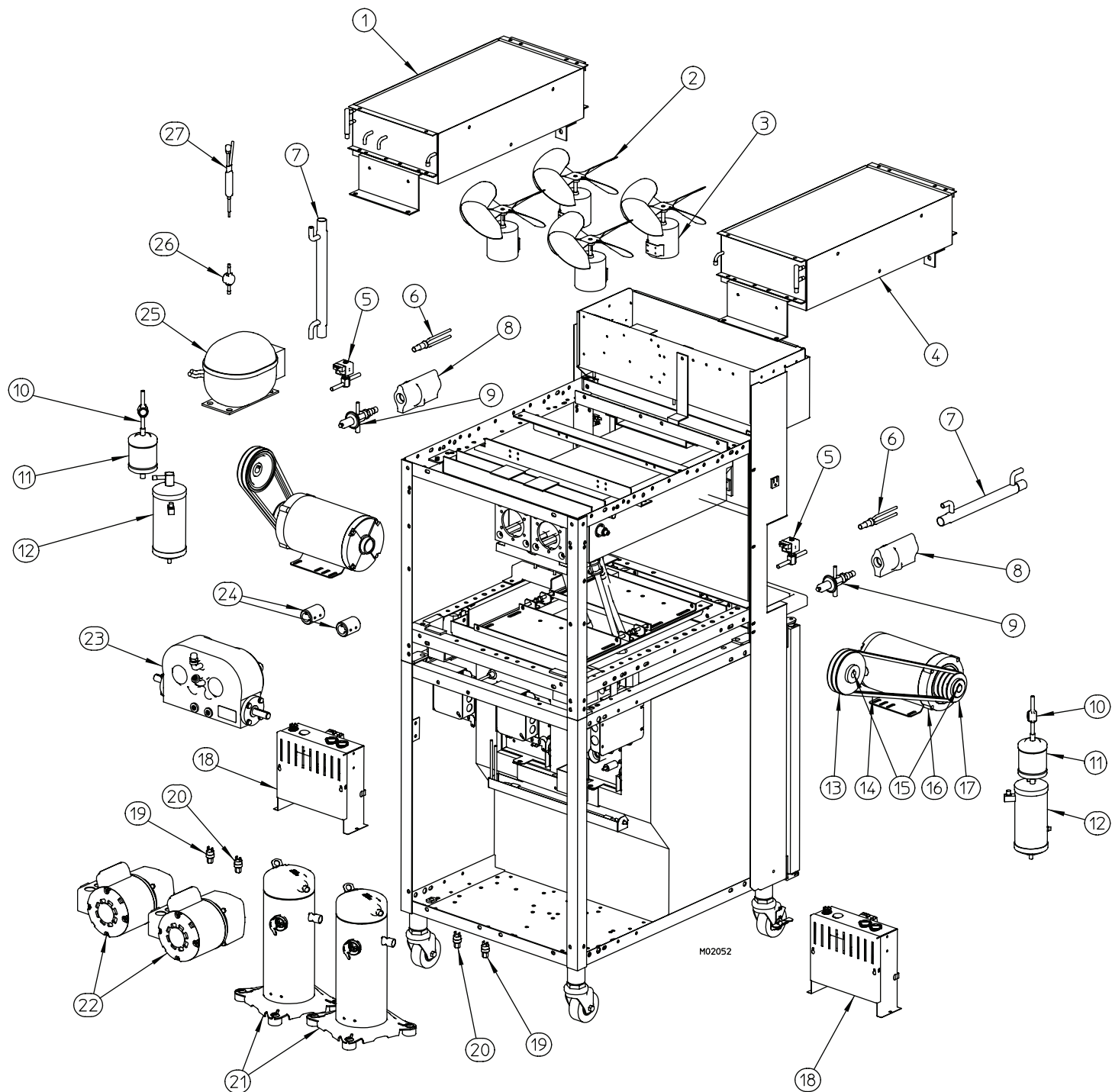
ACR = Air Cooled Remote

LH = Left hand side of freezer when facing front.

RH = Right hand side of freezer when facing front.

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Figure 10 Air Cooled Side/Back View (Breakdown)



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Figure 10 Air Cooled Side/Back View (Parts)

Item	Part No.	Description
1	HC155102	Condenser - Air Rifled
2	HC159023	Blade - Fan 11 In 36 Deg
3	HC151077-01	Motor - Fan 50W 230V 50/60Hz
4	HC155101	Condenser - Air Rifled
5	HC155395	Valve - Solenoid Body 3/8 Odm
5A	HC151477	Coil - Solenoid 208-240V Mkc-1Ts
6	HC155494	Distributor - Refrigerant
7	HC155495	Heat Exchanger
8	HC165531	Insulator - Expansion Valve
9	HC155493	Valve - Automatic Expansion
10	HC155059	Glass - Sight
11	HC155054	Drier - Filter 16 Cu In
12	HC155071	Receiver - 3Lb 3/8 Id Sweat W/O Valve
13	HC153625	Sheave - 3/4 Bore 4.75 Od 4.50Pd
14	HC153171	Belt-V
15	HC153322	Key - Drive 3/16 Sq X 1 1/2
16	HC151052-01	MOTOR - 2HP 208/230/460-3-60
17	HC153626	Sheave - 7/8 Bore 3.25 Od 3.00Pd
18	HC120810-04	Box - Assy Caps 2Hp Bf/2Hp Copzs
19	HC155405	Cut Out - High Pressure
20	HC155701	Cut Out - Low Pressure
21	HC154947	Compressor - Scroll Zs19kae-Pfv
22	HC151147	Gearmotor - 1/6 Hp 115/208-230/1/60 270Rpm
23	HC153341	Reducer - Gear 4Cb Wintwin
24	HC111964	Coupling - Assy 1 In Drive
24A	HC153323	Key - Drive 1/4 Sq X 1 1/2
25	HC120299	Kit - Cabinet Compressor W/Relay & Cap
26	HC155459	Glass - Sight
27	HC155498	Drier - Filter W/Access

Not Shown:

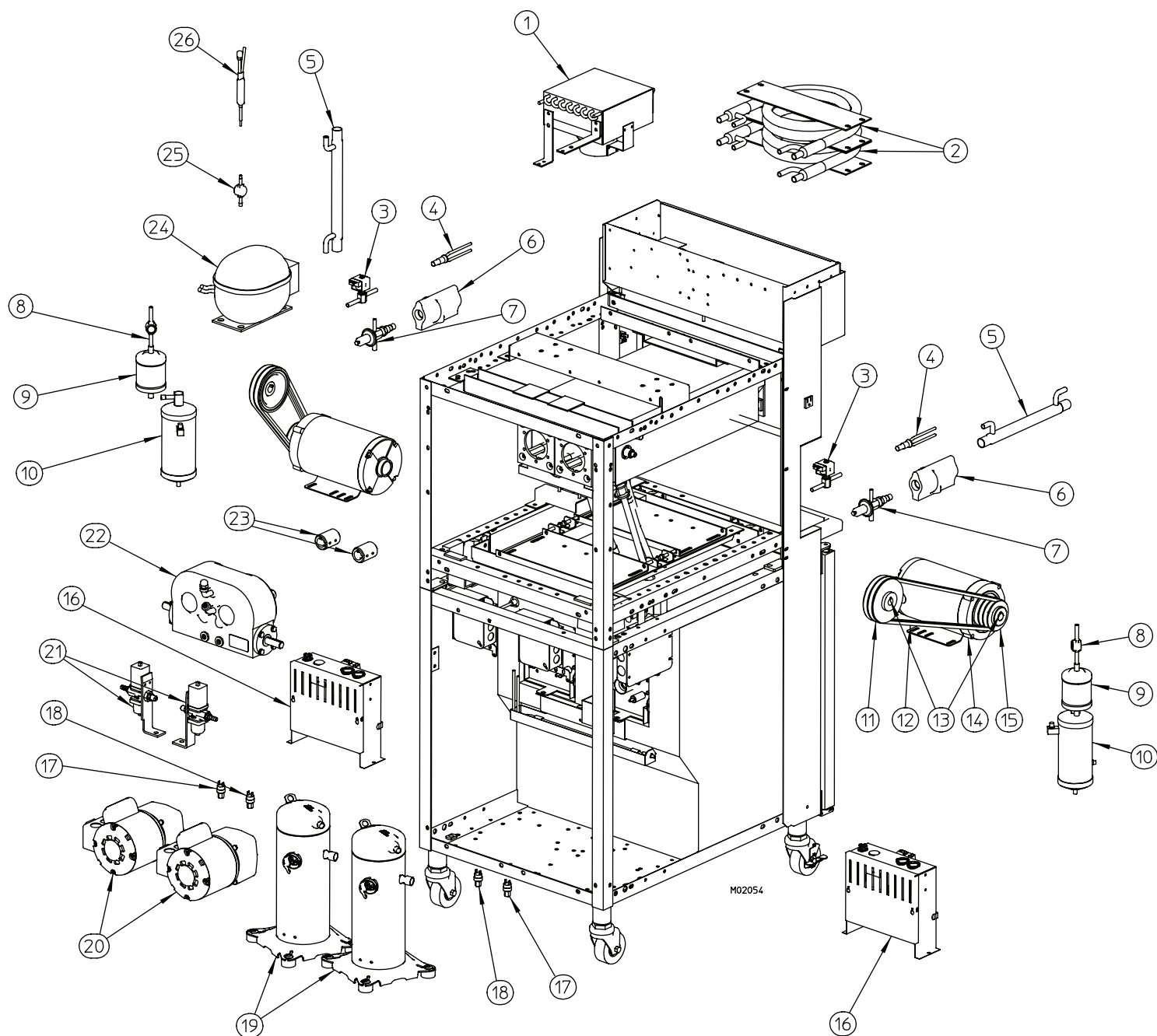
HC116410	Kit - Dispense Head Switch
HC161216	Sensor - 10K Thermistor
HC155399	Valve - Thermostatic Expansion (134a)
HC155704	Cut Out - High Pressure (134a)
HC150461	Switch - Toggle DPDT (Voltage Setting Switch).

LH = Left hand side of freezer when facing front.

RH = Right hand side of freezer when facing front.

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Figure 11 Water Cooled Side/Back View (Breakdown)



**Use only original or authorized replacement parts with this freezer.
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Figure 11 Water Cooled Side/Back View (Parts)

Item	Part No.	Description
1	HC120189-01	Condenser - Assy Cab Comp
2	HC155029	Condenser - Water
3	HC155395	Valve - Solenoid Body 3/8 Odm
3A	HC151477	Coil - Solenoid 208-240V Mkc-1Ts
4	HC155494	Distributor - Refrigerant
5	HC155495	Heat Exchanger
6	HC165531	Insulator - Expansion Valve
7	HC155493	Valve - Automatic Expansion
8	HC155059	Glass - Sight
9	HC155054	Drier - Filter 16 Cu In
10	HC155071	Receiver - 3Lb 3/8 Id Sweat W/O Valve
11	HC153625	Sheave - 3/4 Bore 4.75 Od 4.50Pd
12	HC153171	Belt-V
13	HC153322	Key - Drive 3/16 Sq X 1 1/2
14	HC151052-01	MOTOR - 2HP 208/230/460-3-60
15	HC153626	Sheave - 7/8 Bore 3.25 Od 3.00Pd
16	HC120810-04	Box - Assy Caps 2Hp Bf/2Hp Copzs
17	HC155405	Cut Out - High Pressure
18	HC155701	Cut Out - Low Pressure
19	HC154947	Compressor - Scroll Zs19kae-Pfv
20	HC151147	Gearmotor - 1/6 Hp 115/208-230/1/60 270Rpm
21	HC112080	Valve - Assy Water
22	HC153341	Reducer - Gear 4Cb Wintwin
23	HC111964	Coupling - Assy 1 In Drive
23A	HC153323	Key - Drive 1/4 Sq X 1 1/2
24	HC120299	Kit - Cabinet Compressor W/Relay & Cap
25	HC155459	Glass - Sight
26	HC155498	Drier - Filter W/Access

Not Shown:

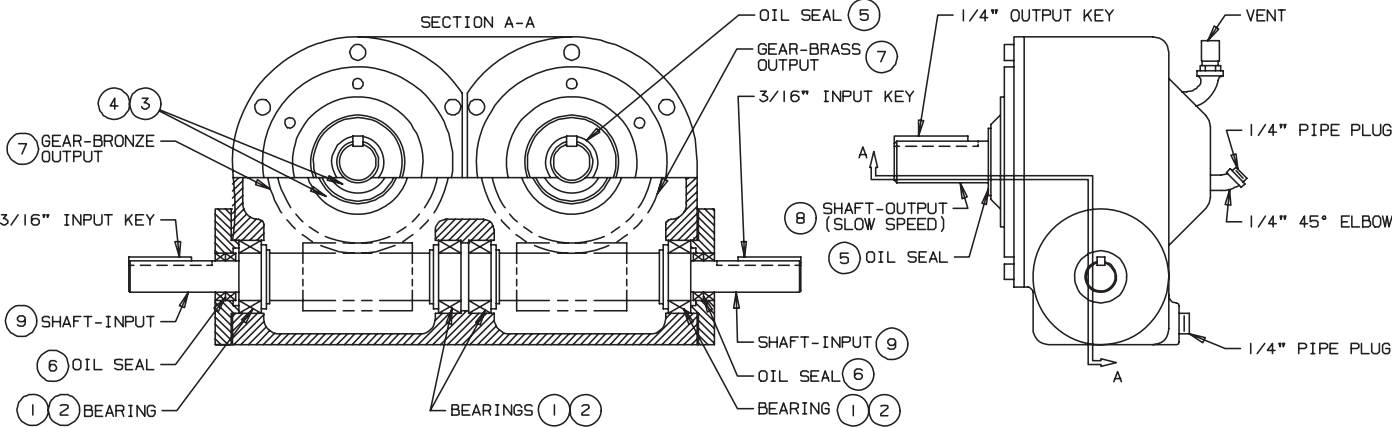
HC116410	Kit - Dispense Head Switch
HC161222	Sensor - 10K Thermistor
HC155399	Valve - Thermostatic Expansion (134a)
HC155704	Cut Out - High Pressure (134a)
HC150461	Switch - Toggle DPDT (Voltage Setting Switch).

LH = Left hand side of freezer when facing front.

RH = Right hand side of freezer when facing front.

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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.

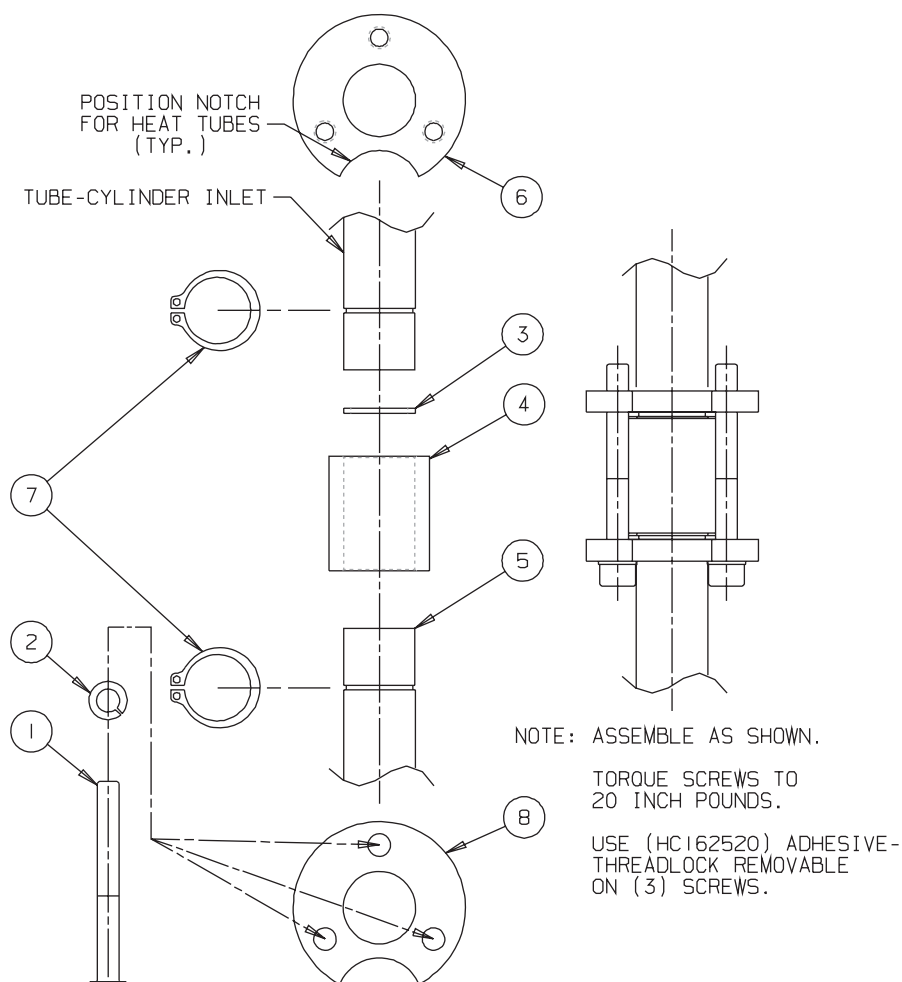
Not Shown:

- HC114874 Kit - Reducer Gasket 4CB 1 ea.
- HC111964 Coupling - Assy. 1 inch Drive
- HC153322 Key - Drive 3/16" High (in)
- HC153323 Key - Drive 1/4" Slow (out)

**Oil-Gear Reducer (per quart)

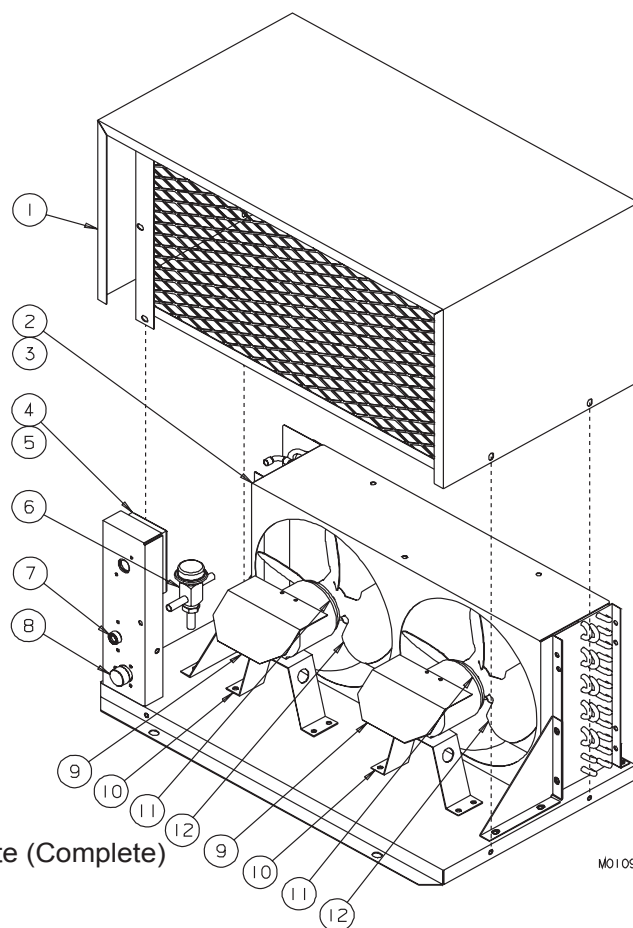
**Note: To order oil always verify type of oil from the tag located on the gear reducer. Improper oil usage will cause the gear reducer to fail.

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Figure 13 Evaporator Mix Tube Assembly

Item	Part No.	Description
1	HC160320	Screw - SKHC #10-24 x 1-3/4 SST
2	HC160166	Washer - Lock #10 ST
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

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Figure 14 Air Cooled Remote Condenser

M01092

Item	Part No.	Description
*	HC116781-03	Condenser - Assy. 2 Hp Remote (Complete)
1	HC117207	Cover - Assy. Condenser
2	HC155101	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. 1/2 MQC 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 items 2-12 above

Not Shown:

HC155058	Receiver - 12 lb. Horizontal Mount
HC155450	Cut Out - High Pressure 450 PSI
HC155705	Cut Out - Low Pressure 2IN HG
HC155466	Control - Pressure Fan
HC155487	Valve - Check 5/8 ODF Sweat
HC119124	Kit - 25 Foot Line Sets 404a
HC119125	Kit - 50 Foot Line Sets 404a

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Accessories

Part No.	Description
HC137870	Adapter - Star/Spigot
HC196103	Bottle - Wash
HC158009	Brush - 4" Cylinder w/o Handle
HC158018	Brush - 7/16" Dia 12" Overall Length
HC158019	Brush - 9/16" Dia 30" Overall Length
HC158026	Brush - 1" Dia. 12" Long
HC158037	Brush - 1/4" Dia. x 18-1/2" Overall Length
HC162105	Caster - 1-1/4" ST PT With Brake
HC162106	Caster - 1-1/4" ST PT Without Brake
HC184238	Chart - O-Ring Laminated
HC158051	Cup - Overrun-One Pint
HC184644	DVD - Training 919RMT, 929RMT, 959RMT
HC158012	Handle - Brush Fiberglass
HC136567	Hose - Spigot Drain
HC112978	Leg - Assy. 6"
HC158054A.....	Lubricant - Lubri Film Plus 4 oz. tube
HC158066	Lubricant - Compound Seven 4 oz. tube
HC196192	Nozzle - Serrated Six Point (Star)
HC158014	Sanitizer - Stera Sheen Case 4-4lb.jars
HC158014A.....	Sanitizer - Stera Sheen 4 lb. jar
HC158049	Scale - Overrun
HC158043	Rod - Stir
HC169374	Tool - O-Ring Removal
HC196006	Tee - Plastic Hose Connection
HC196061	Tubing - .600ID x .850OD PVC (Mix Line-Std.)
HC196062	Tubing - .600ID x .975OD PVC (Mix Line-Hd.)

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

O-Ring Chart

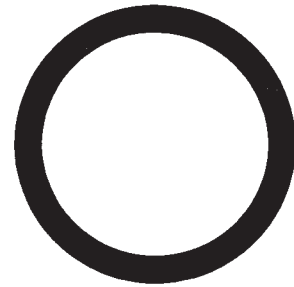
HC184238

SOFT SERVE DISPENSING HEADS

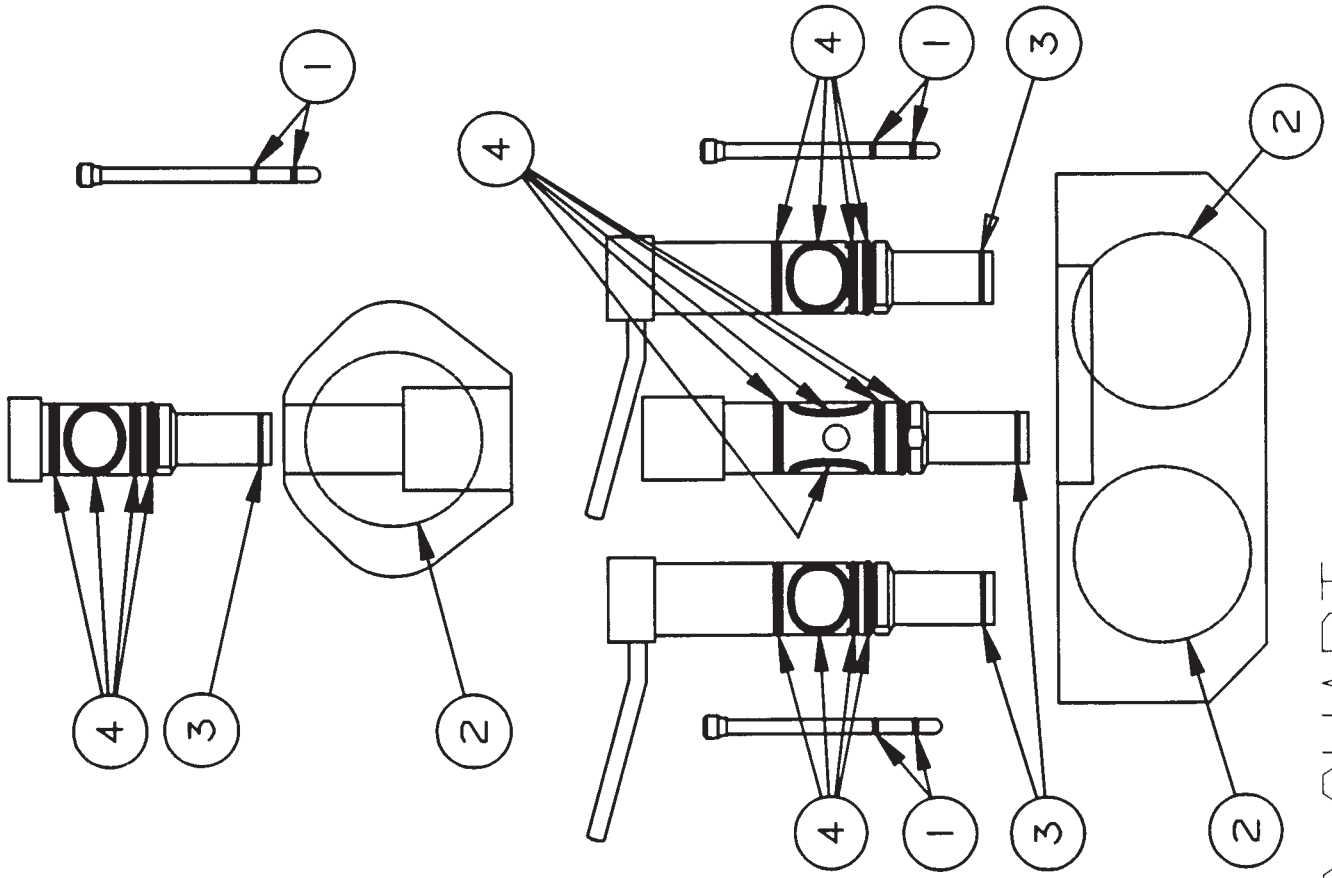
REV. B



PART NO.
HC160583 ②



PART NO.
HC160584 ④



O-RING CHART

PH.NO. 309-755-4553

H.C. DUKE & SON, INC.

