



Replacement Parts Manual

with Illustrations

High Capacity

**Soft Serve Freezer
Model
GEN-5200**

185241-01 — 9/24



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 H.C. Duke & Son, LLC. Distributor.

Name: _____

Address: _____

Phone: _____

If you require further assistance, contact H.C. Duke & Son, Inc., H.C. Duke & Son, LLC., as follows:



Phone: (309) 755-4553

(309) 755-4545

Fax: (309) 755-9858

E-mail: service@hcduke.com

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

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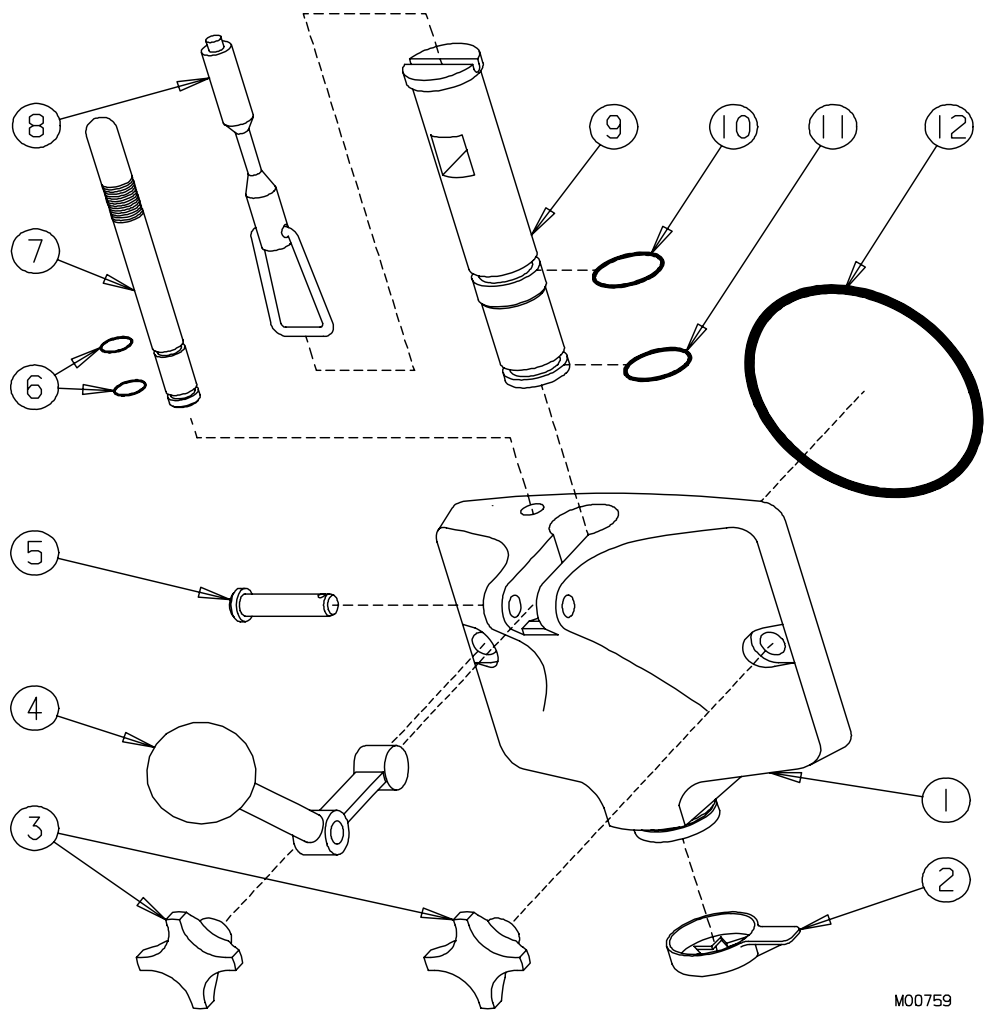
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Figure 1 Head Assembly



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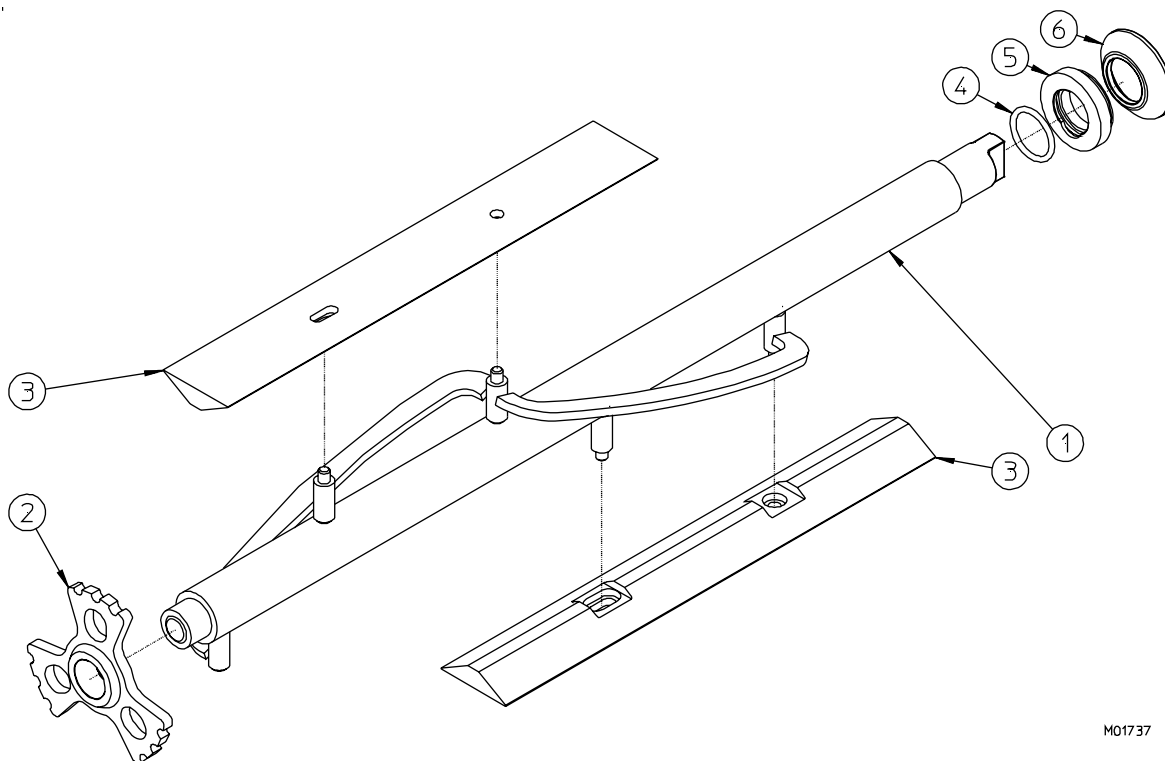
Item	Part No.	Description
*	HC115130	Head - Assy. Dispense (Complete)
1	HC116321	Head (only)
2	HC160583	O-ring (Head)
3	HC115129	Bleeder - Assy.
4	HC160562	O-ring (Bleeder Assembly)
5	HC136126	Rod - Spigot Switch
6	HC134921	Spigot - Long Single (less extension)
6A	HC162624	Handle - Black Tapered
6B	HC134922	Handle - Spigot
7	HC159295	O-ring (Spigot)
8	HC160584	O-ring (Extension)
9	HC162625	Knob - Hand
9A	HC114341	Stud - Assy. 1-15/16 inch (Not Shown)
10	HC136713	Extension - Spigot (Cake) (Optional)

* Includes items 1-4, 6-8.

HC116410 Kit - Dispense Head Switch

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Figure 2 Beater Shaft Assembly



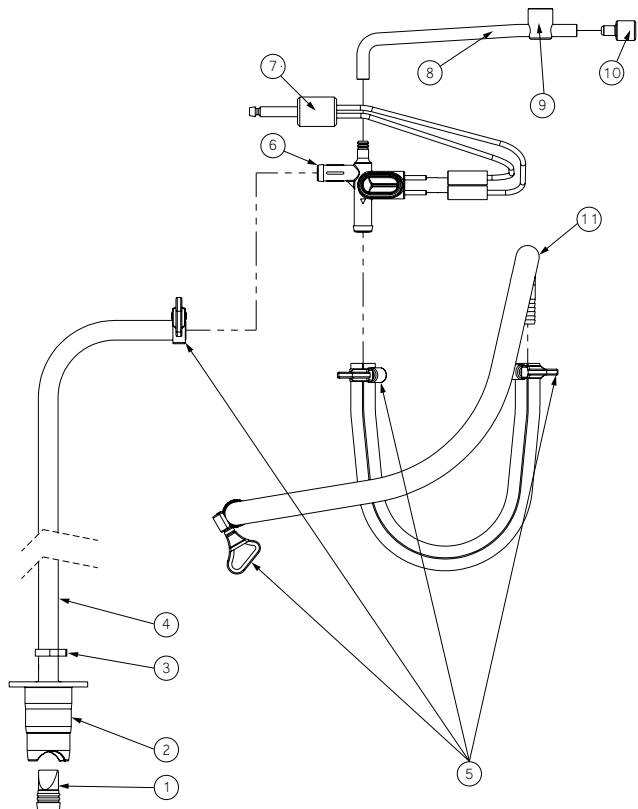
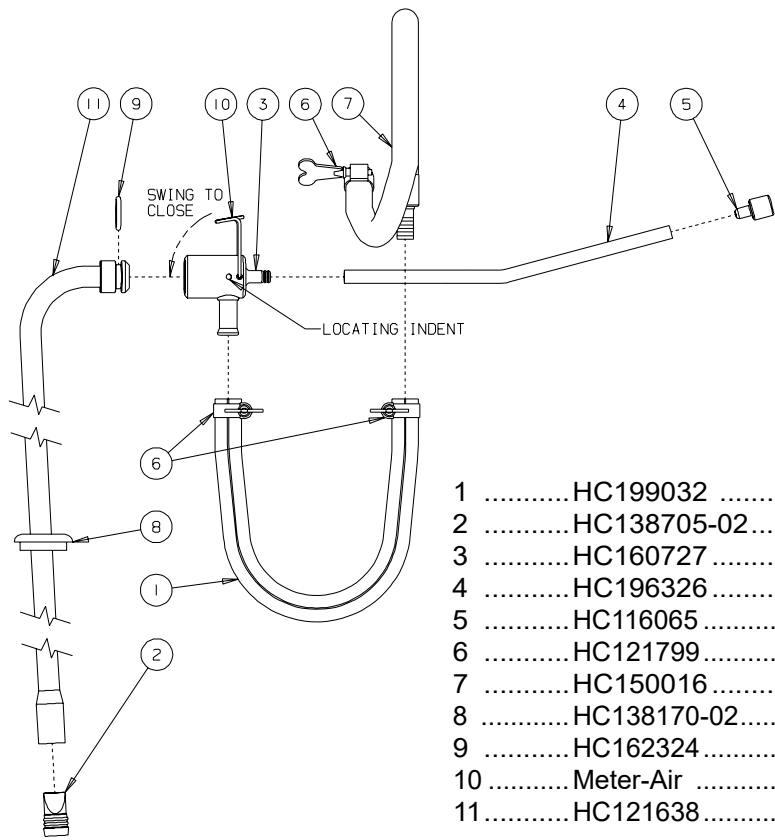
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Item	Part No.	Description
1	HC113438	Shaft - Assy. Beater
2	HC196079	Bushing - Cylinder
3	HC137334	Blade - Scraper Soft Serve
4*	HC160500	O-ring (Seal)
5*	HC133098	Washer - Shaft Seal
6*	HC160557	Seal - Beater Shaft

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

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Figure 3 MTS—RMT Hose Assembly

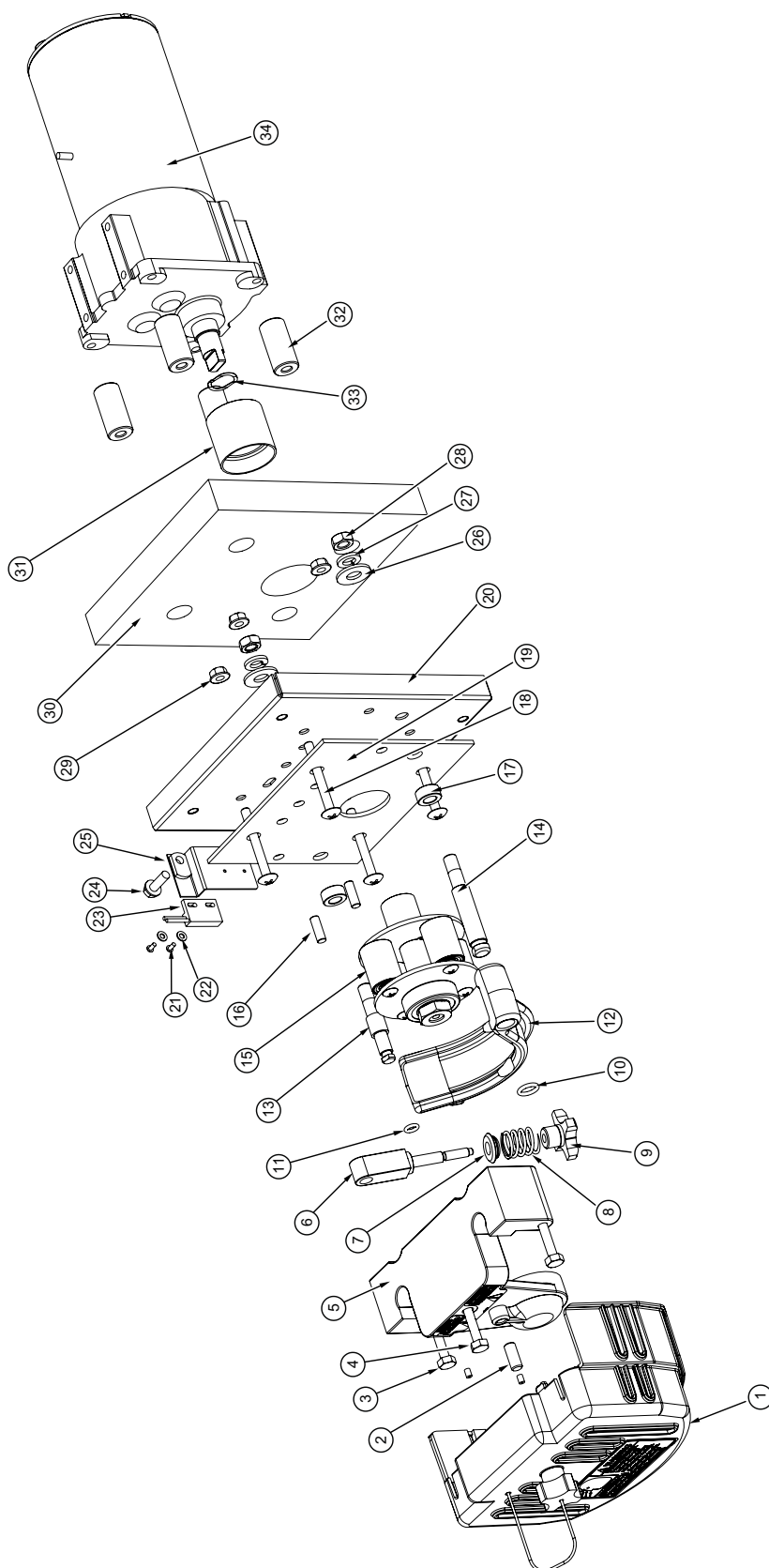


AIR METERS	
Meter No.	Part No.
9	HC163423
10	HC163424
11	HC163425
12	HC163426
13	HC163421
13.5	HC163421-05
14	HC163427
14.5	HC163427-05
15	HC163428
15.5	HC163428-05
16	HC163429
16.5	HC163429-05
17	HC163430
17.5	HC163430-05
18	HC163431
18.5	HC163431-05
19	HC163432
19.5	HC163432-05
20	HC163433
20.5	HC163433-05
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 (sheet 1 of 2)



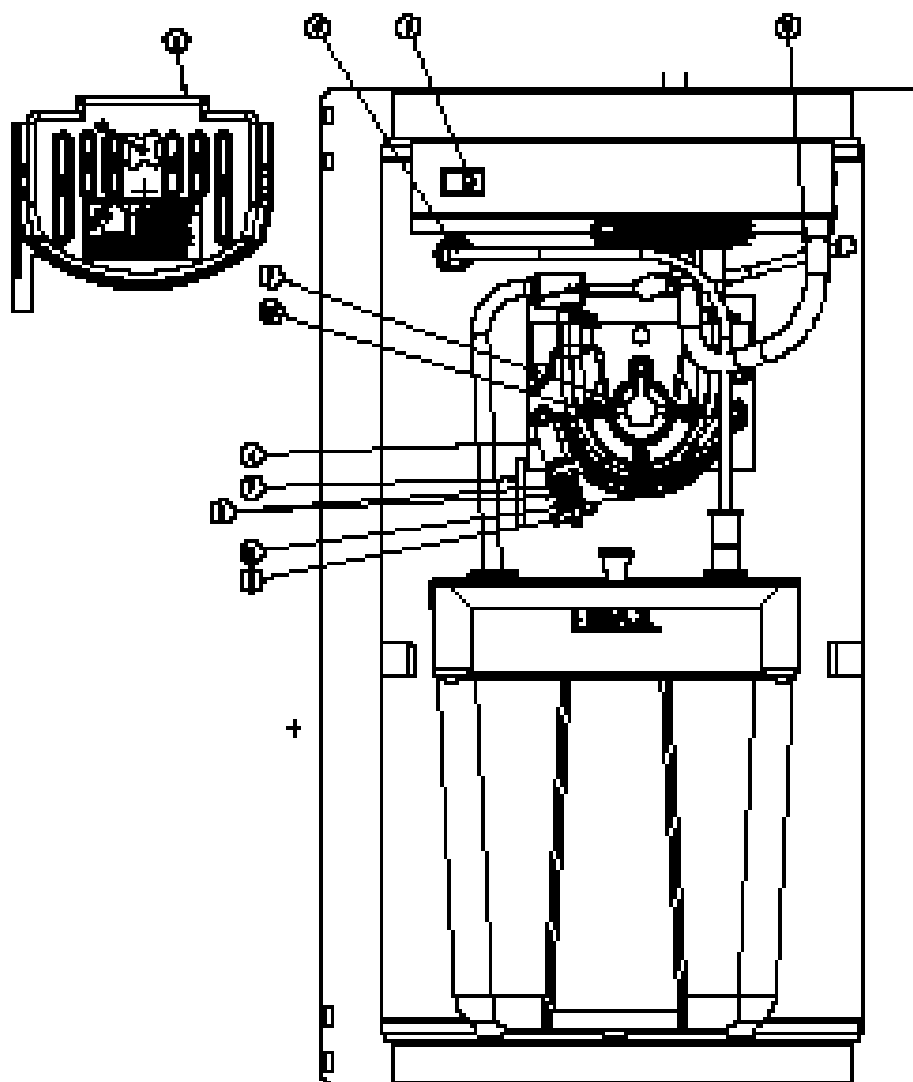
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Figure 4 Mix Transfer System RMT (Sheet 2 of 2)

Item	Part No.	Description
*	HC121634-03	MTS - Assy Cab Red Line/Relief Bism (3 Phase)
1	HC121798	Cover - Assy RMT
	HC165246	Decal - Warning Pressurized
	HC138889	Knob - Cover RMT
	HC138890	Lanyard - Wire
	HC160508	Sleeve - Cable Stop 3/64
2	HC160386	Stud - 5/16 - 18 X 3/4 SST
3	HC160464	Screw - HXHC 1/4 - 20X2 1/2 SST
4	HC160465	Screw - HXHC 1/4 - 20X3 1/2 SST
5	HC120633	Support - Assy
6	HC120504	Clamp - Assy Swing 1/4 - 20
7	HC140711	Washer - Spring End
8	HC162330	Spring - Compression .79Diax1.51x.088SST
9	HC140706	Knob - Fluted 1/4 - 20 Custom
10	HC160612	O Ring
11	HC160628	O-Ring
12	HC139751	Shoe - Roller
13	HC138799	Arm - Swing Clamp
14	HC138797	Arm - Shoe Pivot
15	HC116009	Roller - Assy Bearing
16	HC160338	Pin - Dowel 1/4 Dia X 3/4 SST
17	HC138800	Spacer - Swing Arm
18	HC160093	Screw - Trps 1/4 - 28X2 - 1/4 SST
19	HC191527	Blank - Backup MTS
20	HC121633-01	Faceplate - Assy MTS Liner Right
21	HC160357	Screw - Rdhm #4 - 40X1/4 STL
22	HC160393	Washer - Flat #6 Brass
23	HC161302	Switch - Slide/Cover
24	HC159939	Screw - Hxsf 1/4 - 20X11/16 SST
25	HC118763	Bracket - Assy Switch Mntg
26	HC160169	Washer - Flat 3/8 SST
27	HC160170	Washer - Lock 3/8 SST
28	HC159927	Nut - Hex 3/8 - 16 SST
29	HC159933	Nut - Hxsf 1/4 - 20 SST
30	HC165524-01	Block - Insulation GES
31	HC139756	Shield - Drip
32	HC138793	Spacer - Motor
33	HC160173	Washer - Spring Wave SST
34	HC151161	Gearmotor - 1/8 Hp 208 - 230/3/60 270 RPM

* Includes all items above.

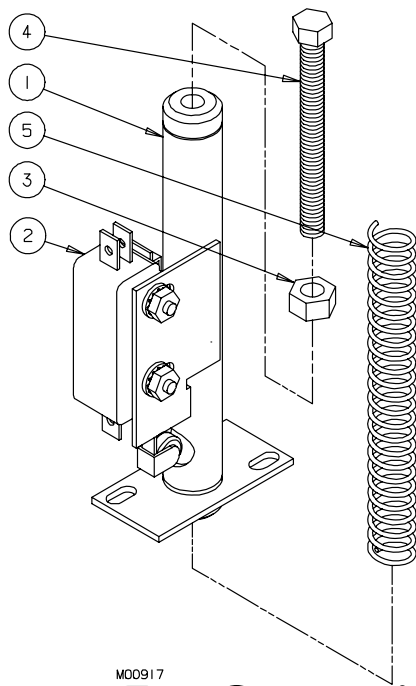
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Figure 5 Cabinet Parts

Item	Part No.	Description
1	HC161313	Switch - Proximity Reed NC
2	HC140706	Knob - Fluted 1/4-20 Custom
3	HC162330	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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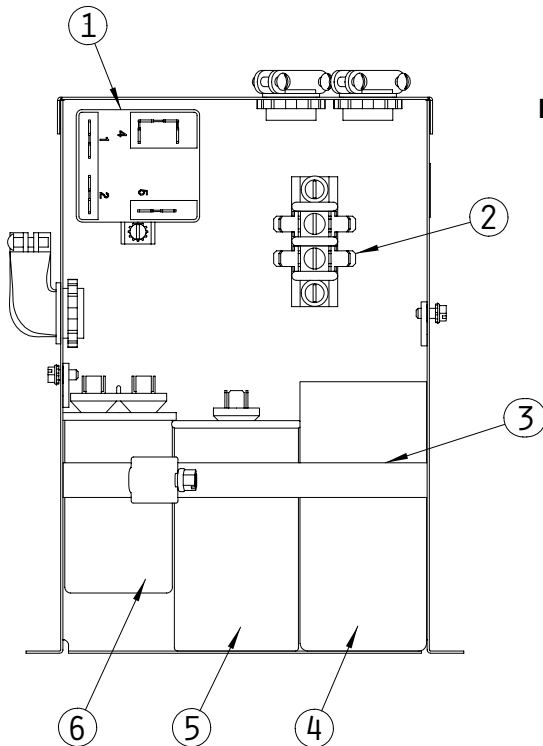
Figure 6 Switch Assembly



Item	Part No.	Description
*	HC113903	Switch - Assy. Spigot
1	HC150456	Switch - Snap Button
2	HC160393	Washer - Flat #6 Brass
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 all items above.

Figure 7 Capacitor & Relay Box



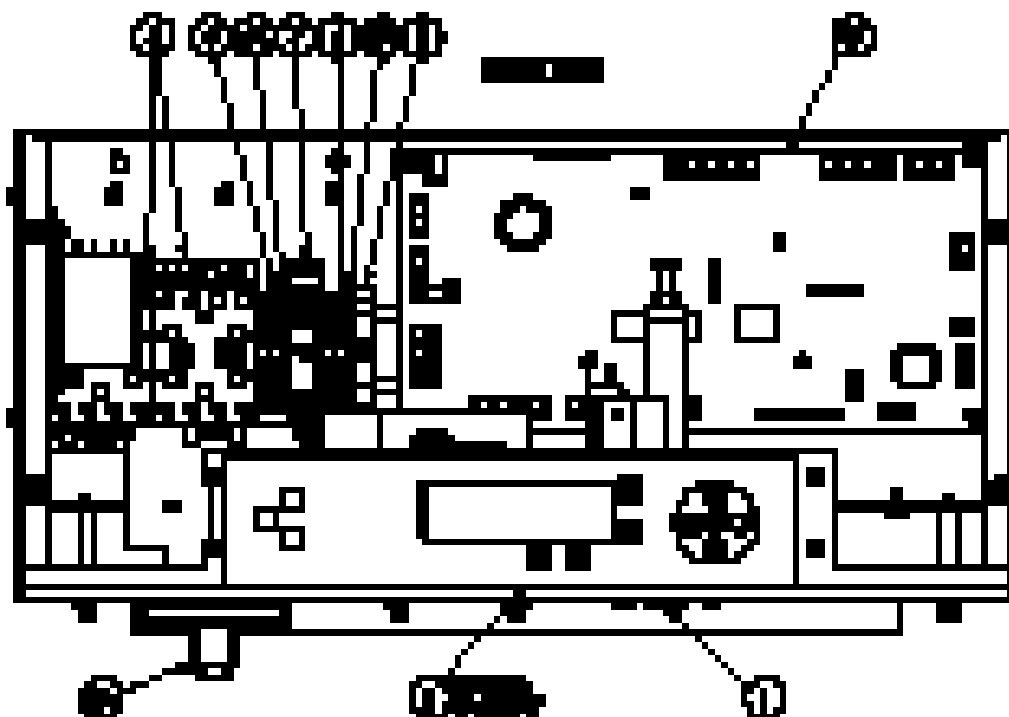
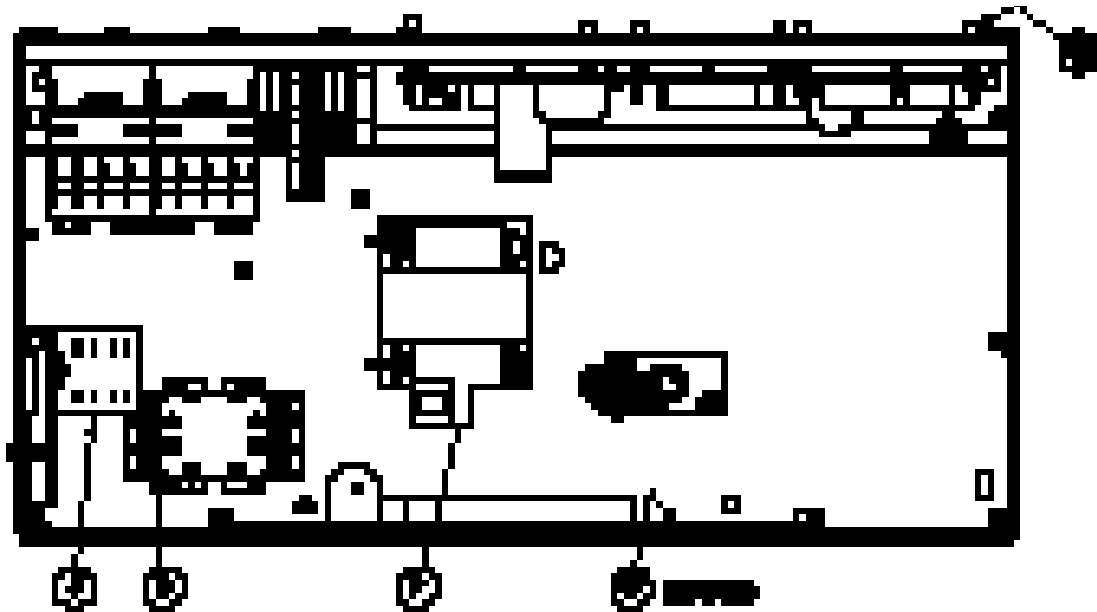
Item	Part No.	Description
*	HC120985-01	Box - Assy. (Complete)
1	HC150029	Relay - Compressor COPZS
2	HC150798	Strip - Terminal
3	HC1607331	Clamp - Hose 2-1/2 to 5-1/2
4	HC151445	Capacitor - Start
5	HC150403	Capacitor - Run
6	HC150244	Capacitor - Run

*Includes item 1 through 6 plus box and wiring.

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Figure 8 Switch Box (sheet 1 of 2)

TOP VIEW



FRONT VIEW

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Figure 8 Switch Box (sheet 2 of 2)

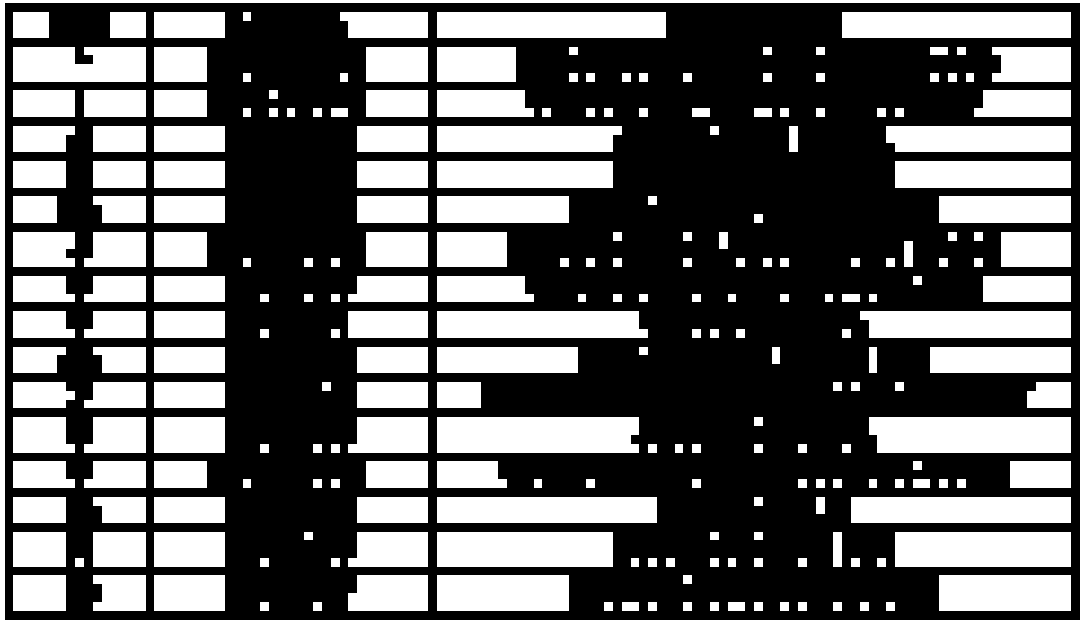
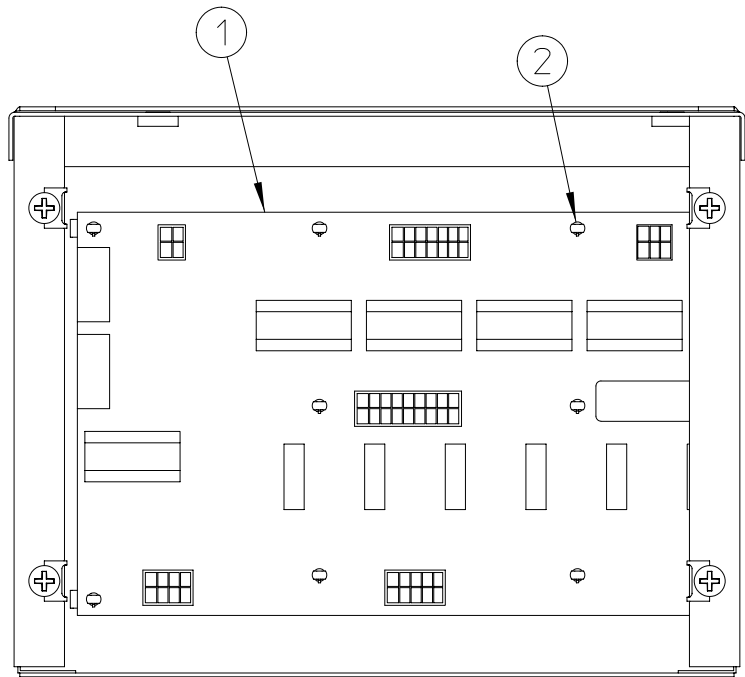


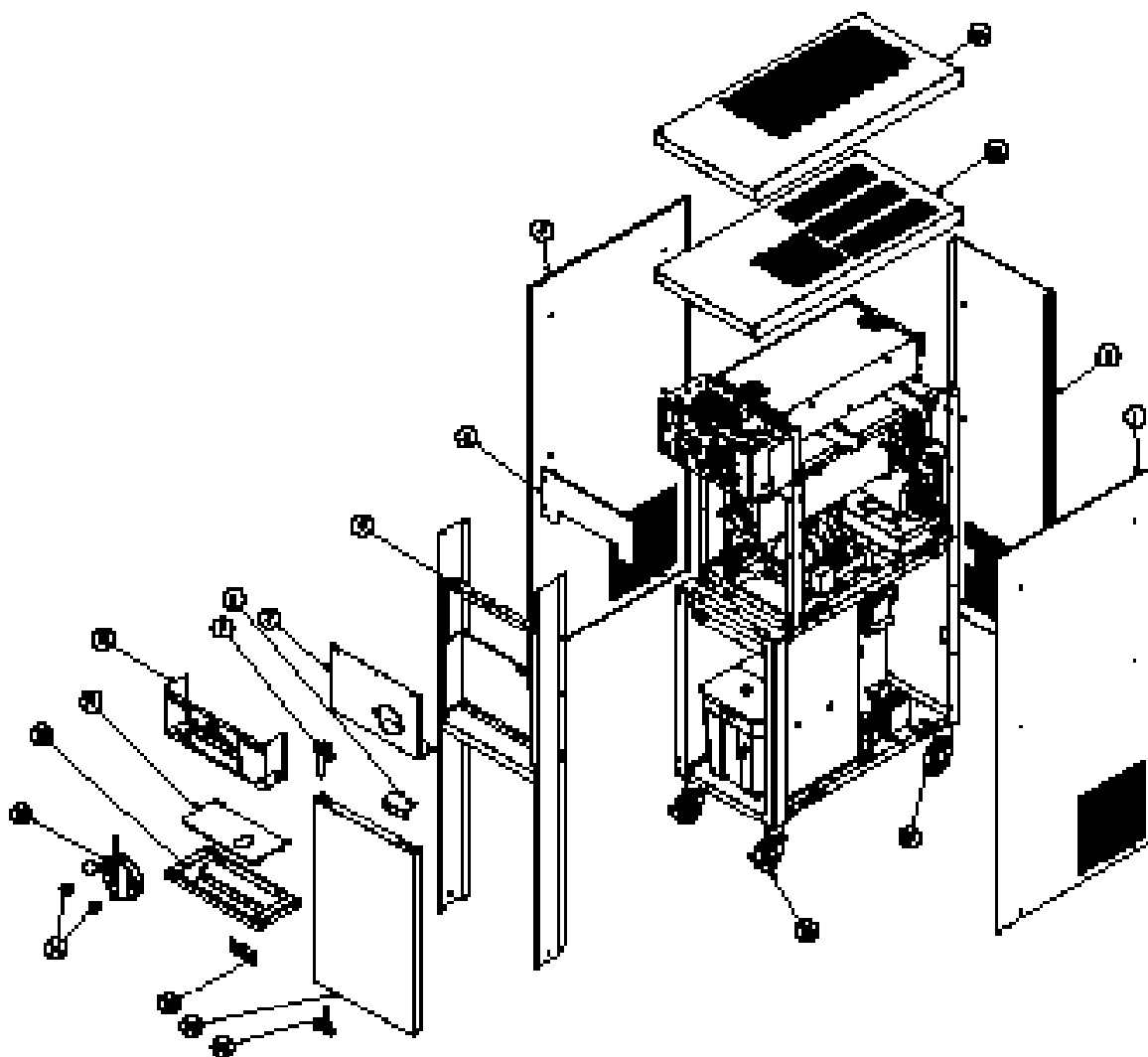
Figure 9 PC Board Box



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Item	Part No.	Description
1	HC151702	Board - PC Relay
2	HC150927	Support - 5/8 Circuit Board

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Figure 10 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 10 Panel Breakdown (Parts)

Item	Part No.	Description
1	HC137028	Panel - Side RH
2	HC140024	Panel - Rear (AC & WC)
	HC139134	Panel - Upper Rear (ACR)(Not Shown)
	HC139135	Panel - Lower Rear (ACR)(Not Shown)
3A	HC141535	Panel - Assy. Top (AC)
or		
3B	HC121447	Panel - Assy. Top (WC & ACR)(Not Shown)
4	HC137027	Panel - Side LH
5	HC116508	Cover - Assy. Electric Box
6	HC116810-01	Panel - Assy. Front
	HC159175	Catch - Bullet (Drip Tray Button)
	HC160289	Nut - Push Round (Clip for Button)
7	HC140126-02	Panel - Dispense 18 in GEN
8	HC118597	Actuator - Assy. Door Switch
9	HC162045	Hinge - Pivot 1 - 3/8" Top LH includes
	HC162052	Spring LH
10	HC121375-01	Trimstrip - Assy. 18" IDQ
11	HC114341	Stud - Assy. Cylinder 1 - 15/16"
12	HC162625	Knob - Hand
13	HC115130-01	Head - Assy. Dispense (See Figure 1)
14	HC116540	Insert - Assy. Drip Tray
15	HC196107-03	Tray - Drip 18" White
16	HC114260-07	Door - Assy. Complete 18" IDQ (Without hinges)
	HC160563-02	Gasket - Magnetic (Door 18")
	HC136199	Pull - Door (Handle)
17	HC162045	Hinge - Pivot 1 - 3/8" Bottom LH
18	HC136199	Pull - Door (Handle)
19	HC162133	Caster - Low Profile W/Brake
20	HC162134	Caster - Low Profile W/O Brake

LH or RH — Left or right hand is determined as you face the front of freezer.

AC = Air cooled

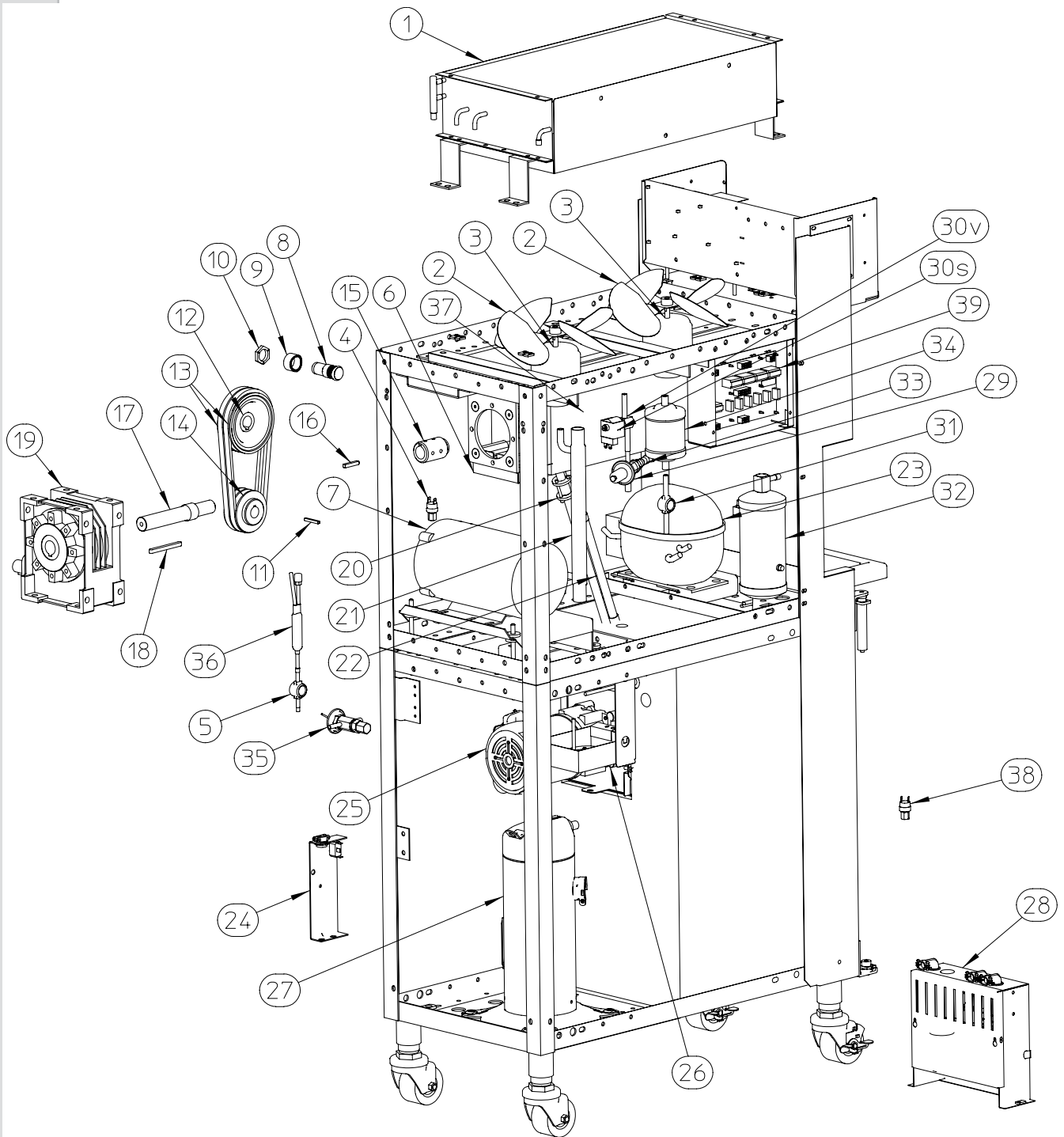
WC = Water Cooled

ACR = Air Cooled Remote

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
HC165666	Nameplate SN
HC164110	MTS Connect Red Line
HC165124	Top Air Discharge
HC165126	Panel Removal
HC165124	Top Air Discharge
HC164081	Trimstrip
HC164176	H.C. Duke & Son, LLC. Label
HC165246	Warning - Pressurized

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Figure 11 Air Cooled Side/Back View (Breakdown)



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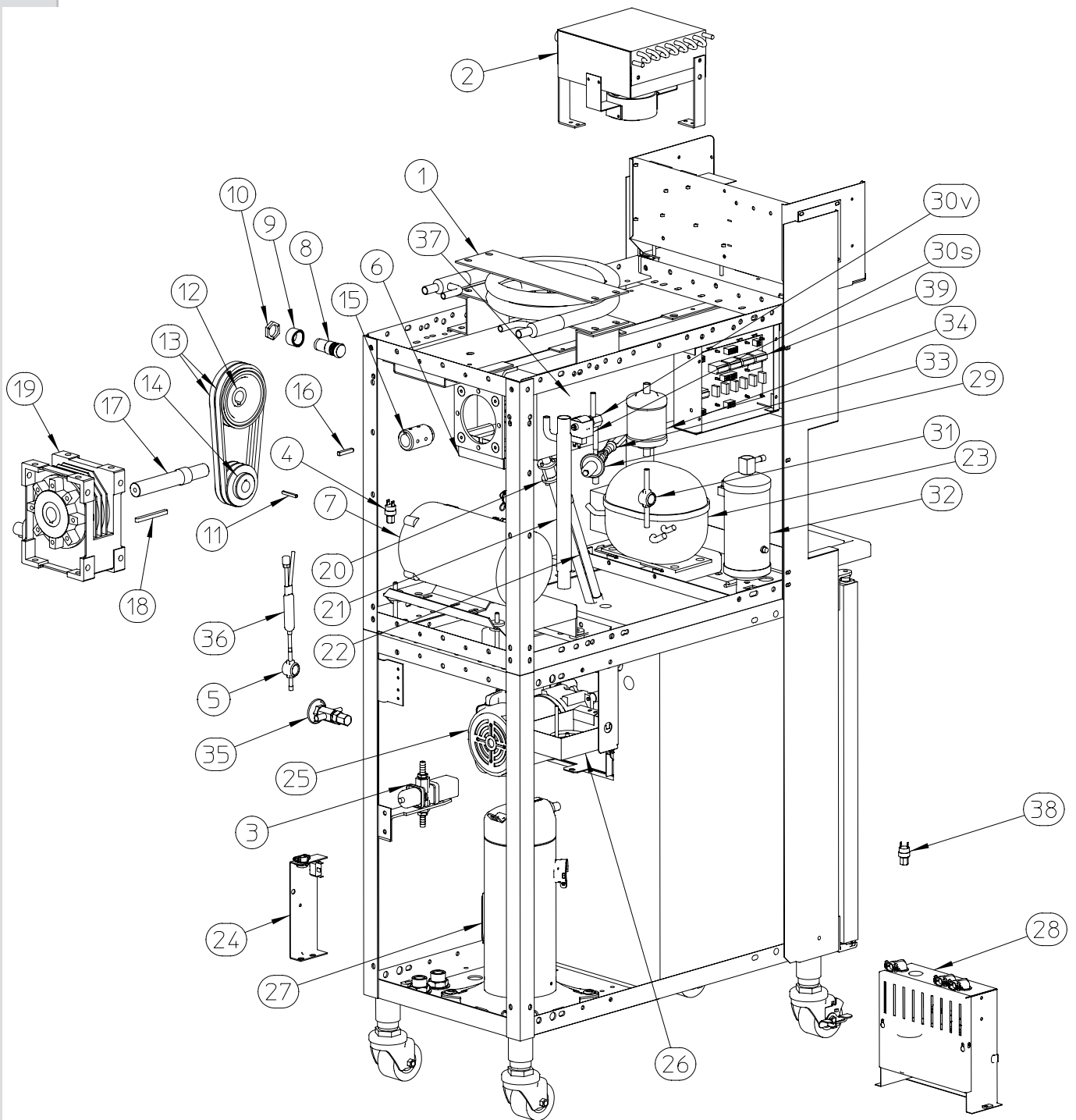
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Figure 11 Air Cooled Side/Back View (Parts)

Item	Part No.	Description
1	HC155102	Condenser - Air Rifled
2	HC159023	Blade - Fan 11 In 36 Deg
3	HC151077-02	Motor - Fan 50w 230v 50/60Hz W/Plug
4	HC155701	Cut Out - Low Pressure
5	HC155459	Glass - Sight
6	HC140814-01	Plate - Reducer Mounting Long
7	HC151062-01	(1ph) Motor - 2hp 208-230/1/60 Fe (3ph) HC151052-01 Motor - 2hp 208-230/460/3/60
8	HC150502	Switch - Pressure 30psi
9	HC138827 - 01	Spacer - Curved Press SW
10	HC116105	Nut - Assy Pressure Switch
11	HC153322	Key - Drive 3/16 Sq X 1 1/2
12	HC153652	Sheave - 24mm Bore 4.75OD 4.5PD SPL
13	HC153169	Belt - V
14	HC153626	Sheave - 7/8 Bore 3.25 OD 3.00PD
15	HC111964	Coupling - Assy 1 In Drive
16	HC153323	Key - Drive 1/4 Sq X 1 1/2
17	HC140834	Shaft - Output
18	Ic517105021	Feather Key A 8 x 7 x 85 Uni6604 C40
19	HC153372	Reducer - Gear 10/1 UI75 (Sheave Key) HC153329 Key - Drive 8 X 7 X 40
20	Fig 4	See Fig. 4
21	HC155495	Heat Exchanger
22	HC119155	Tube - Assy Lower Heat
23	HC154958	Compressor - NI6.1MF Cab
24	HC120499	Bracket - Assy Service Box And Switch
25	HC118751-03	Mt - Assy Cab Red Line/Relief Bsn
26	HC120301	Pan - Assy Condensate
27	HC154947	(1ph) Compressor - Scroll Zs19kae - PFV (3ph) HC154948 Compressor - Scroll Zs19kae - Tf5
28	HC120985-01	Box - Assy Caps COPZS (1ph)
29	HC155493	Valve - Automatic Expansion
30	HC155395	(V) Valve - Solenoid Body 3/8 ODM (S) HC151477 Coil - Solenoid 208-240v MKC-1TS
31	HC155059	Glass - Sight
32	HC155071	Receiver - 3lb 3/8 Id Sweat W/O Valve
33	HC155494	Distributor - Refrigerant
34	HC155054	Drier - Filter 16 Cu In
35	HC155399	Valve - Thermostatic Expansion
36	HC155498	Drier - Filter W/Access
37	HC120169-01	Cylinder - Assy Complete RH
38	HC155045	Cut Out - High Pressure
39	HC151702	Board - PC Relay

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Figure 12 W/C Side/Back View (Breakdown)



M02066-6

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Figure 12 W/C Side/Back View (Parts)

Item	Part No.	Description
1	HC155029	Condenser - Water
2	HC120287-01	Condenser - Assy Cab Comp
3	HC113769	Valve - Assy Water
4	HC155702	Cut Out - High Pressure 375 Psi
5	HC155459	Glass - Sight
6	HC140814-01	Plate - Reducer Mounting Long
7	HC151062-01	(1ph) Motor - 2hp 208-230/1/60 Fe (3ph) HC151052-01 Motor - 2hp 208/230/460-3-60
8	HC150502	Switch - Pressure 30psi
9	HC138827-01	Spacer - Curved Press Sw
10	HC116105	Nut - Assy Pressure Switch
11	HC153322	Key - Drive 3/16 Sq X 1 1/2
12	HC153652	Sheave - 24mm Bore 4.75OD 4.5PD SPL
13	HC153169	Belt - V
14	HC153626	Sheave - 7/8 Bore 3.25 OD 3.00PD
15	HC111964	Coupling - Assy 1 in Drive
16	HC153323	Key - Drive 1/4 Sq X 1 1/2
17	HC140834	Shaft - Output
18	Ic517105021	Feather Key A 8x 7x85 Uni6604 C40
19	HC153372	Reducer - Gear 10/1 UI75 (Sheave Key) HC153329 Key - Drive 8 X 7 X 40
20	Fig 4	See Fig. 4
21	HC155495	Heat Exchanger
22	HC119155	Tube - Assy Lower Heat
23	HC154958	Compressor - NI6.1MF Cab
24	HC120499	Bracket - Assy Service Box And Switch
25	HC118751-03	Mt - Assy Cab Red Line/Relief Bism
26	HC120301	Pan - Assy Condensate
27	HC154947	(1ph) Compressor - Scroll ZS19KAE - PFV (3ph) HC154948 Compressor - Scroll ZS19KAE - TF5
28	HC120985-01	Box - Assy Caps COPZS (1ph)
29	HC155493	Valve - Automatic Expansion
30	HC155395	(V) Valve - Solenoid Body 3/8 ODM (S) HC151477 Coil - Solenoid 208-240v MKC-1TS
31	HC155059	Glass - Sight
32	HC155071	Receiver - 3lb 3/8 ID Sweat W/O Valve
33	HC155494	Distributor - Refrigerant
34	HC155054	Drier - Filter 16 Cu In
35	HC155399	Valve - Thermostatic Expansion
36	HC155498	Drier - Filter W/Access
37	HC120169-01	Cylinder - Assy Complete RH
38	HC155701	Cut Out - Low Pressure
39	HC151702	Board - PC Relay

Not Shown:

HC116410 Kit-Dispense Head Switch

HC161216 Sensor-10K Thermistor

HC155399 Valve-Thermostatic Expansion (134a)

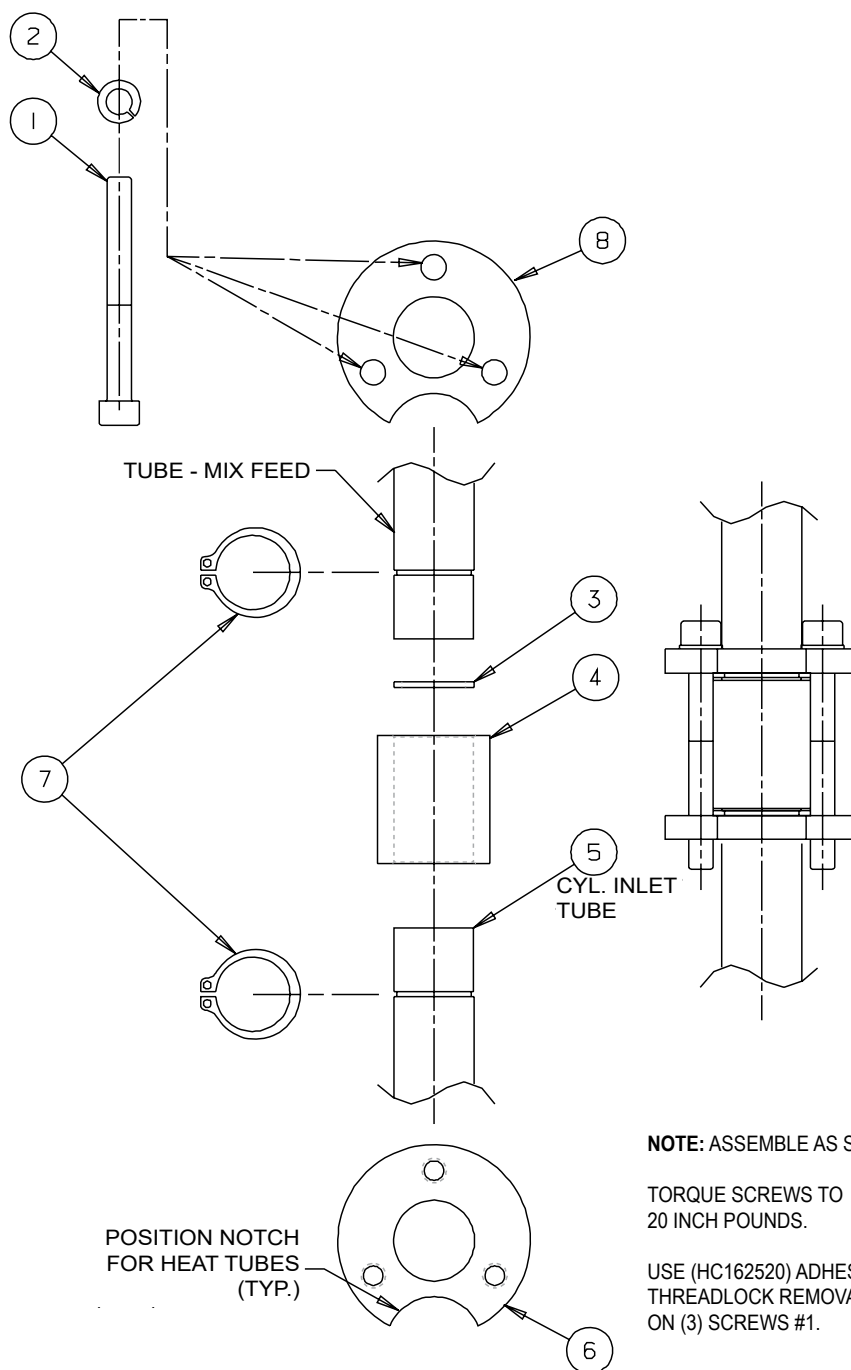
HC155704 Cut Out-High Pressure (134a)

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 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	HC140352	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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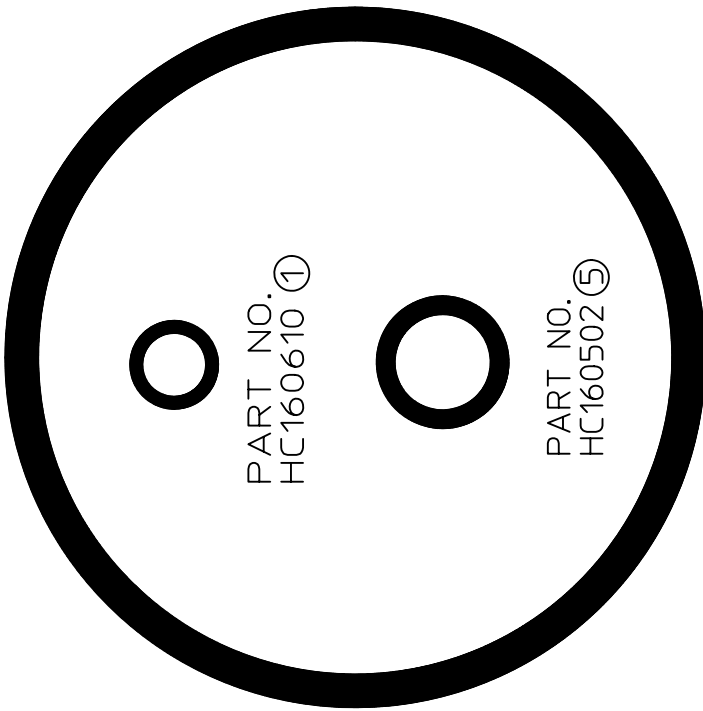
Accessories

Part No.	Description
HC196103	Bottle - Wash 500 ml
HC158004	Brush - 4" w/36" handle
HC158009	Brush - 4" dia w/o handle
HC158018	Brush - 7/16" Dia x 12" Overall Length
HC158019	Brush - 9/16" Dia x 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 w/Brake
HC162106	Caster - 1-1/4" ST w/o Brake
HC119851.....	Kit - O-ring (need 2)
HC112978.....	Leg - Assy. Six Inch
HC158000A.....	Lubricant - Petrol Gel 4 oz. Tube
HC150736	Nut - Lock Conduit 1-1/4" (Casters)
HC158013	Sanitizer - Stera Sheen (sample)
HC158014	Sanitizer - Stera Sheen (case/4 jars)
HC158014A.....	Sanitizer - Stera Sheen (4 lb. jar)
HC158049	Scale - Overrun
HC169374	Tool - O-ring Removal
HC184244	Chart - O-ring (Laminated)

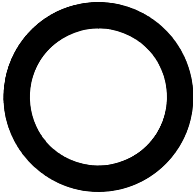
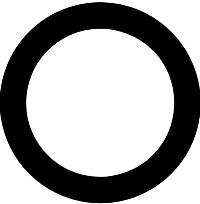
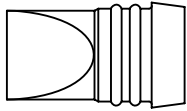
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O-Ring Chart

HC184244 SOFT SERVE DISPENSING HEADS REV 02



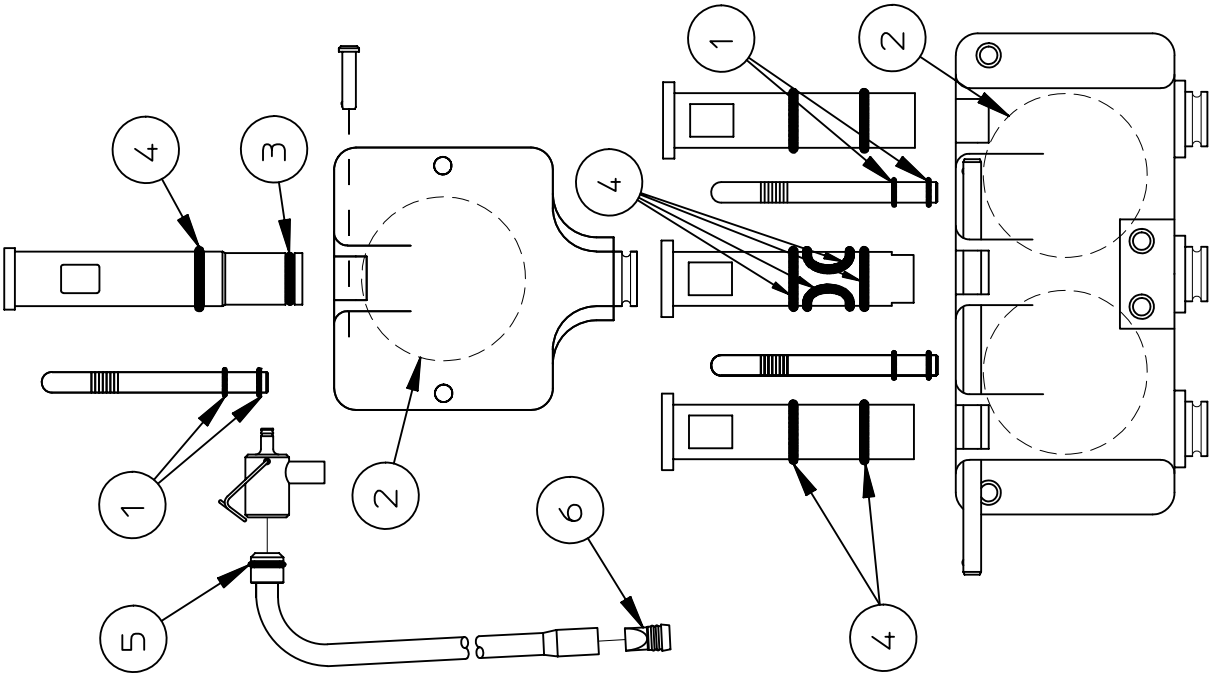
PART NO.
HC160583 ②



PART NO. HC160582 ③
PART NO. HC160501 ④
PART NO. HC199032-01 ⑥

O-RING CHART

PH.NO. 309-755-4553 H.C.DUKE & SON, INC.



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