



REPLACEMENT PARTS MANUAL

with Illustrations

SOFT SERVE FREEZER

Model GEN-80

P/N 185258-01 3/18

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.

Name _____

Address: _____

Phone: _____

For factory service assistance — contact
H. C. Duke & Son, LLC., Electro Freeze
Service Department as follows:



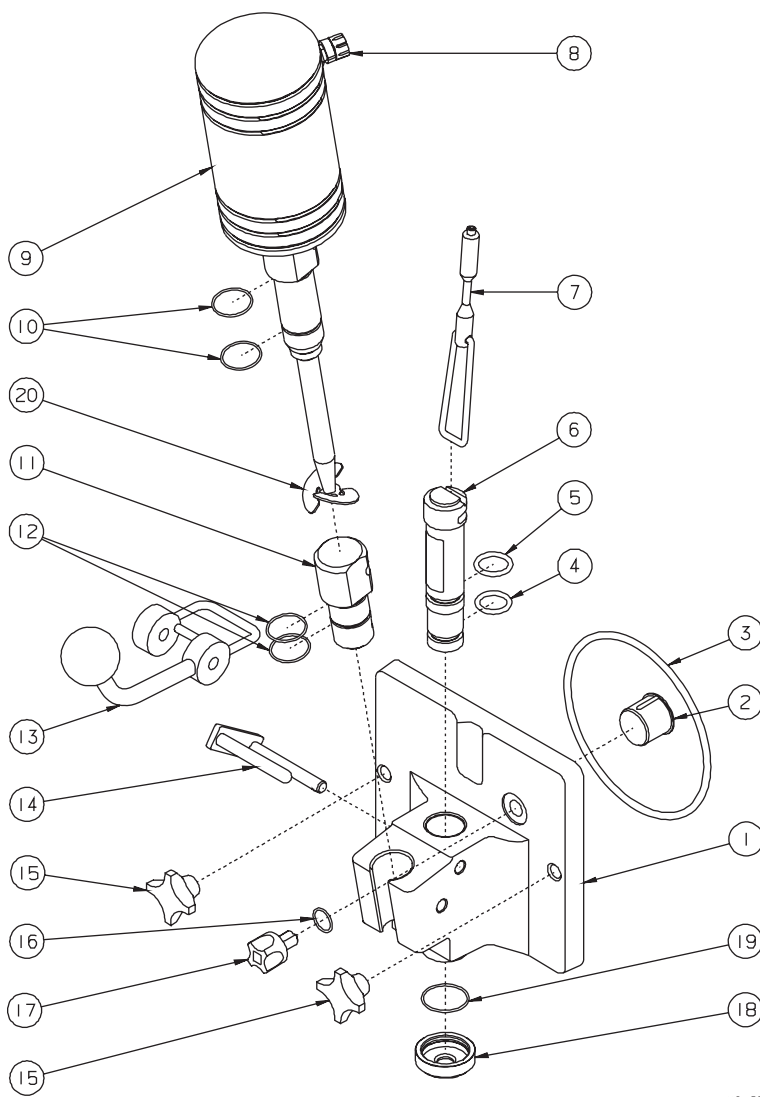
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Figure 1 Head Assembly

M01672

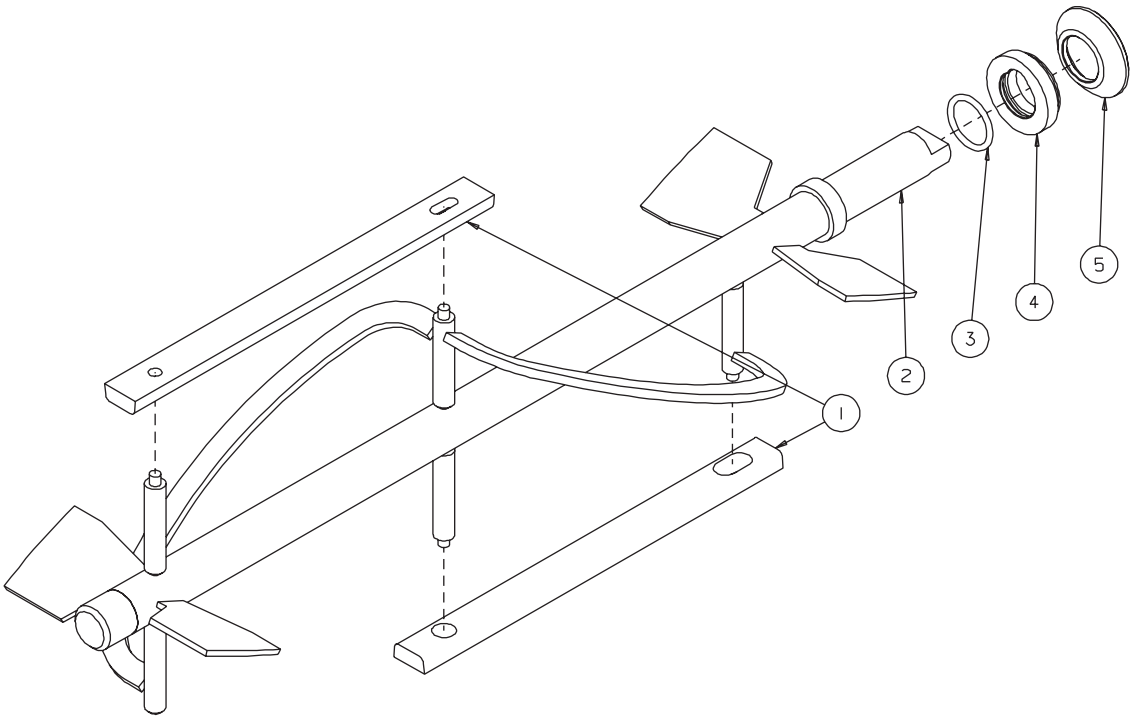
Item	Part No.	Description
*	HC118909	Head - Assy. Dispense Complete
1	HC118908	Head - Assy. w/Actuator (Head Only)
2	HC196072	Bushing - Beater Bearing
3	HC160622	O-Ring (Head)
4	HC160582	O-Ring (Plunger - Lower)
5	HC160501	O-Ring (Plunger - Upper)
6	HC136922	Plunger - Dispensing BK
7	HC114340	Push Rod - Assy. Plunger Switch
8	HC150802	Holder - Fuse
9	HC121487	Spindle - Assy. Front Mount 230V
	HC150889	Fuse - Slo Blo 1.0A
	HC151149	Motor - Spindle
	HC150891	Set - Motor Brush (2)
10	HC160555	O-Ring (Spindle)
11	HC135182	Post - Pivot (Optional)
12	HC160555	O-Ring (Pivot Post)
13	HC113123	Handle - Assy. Spindle Head
14	HC113435	Keeper - Assy. Spindle

Item	Part No.	Description
15	HC162641	Knob - Hand Aluminum
16	HC160621	O-Ring (Plug)
17	HC196066	Plug - Air Relief (Bleed)
18	HC139860-01	Extension - Shake Spigot 1/2 Dia
19	HC160620	O-Ring (Shake Spigot)
20	HC119114	Kit - Spinner Replacement

Not Shown:

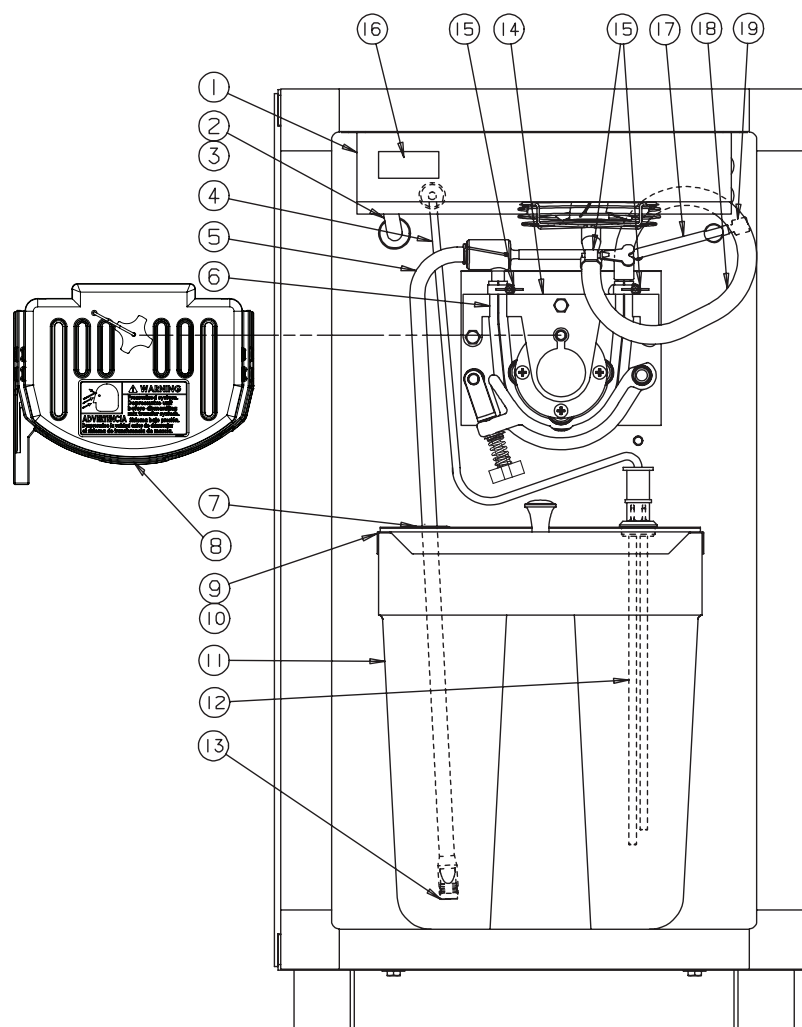
- HC116410..... Kit - Dispense Head Switch
 HC114341..... Stud - Assy. Cylinder 1-15/16
 * Includes Items 1-6, 13, 14, 16-19.

Figure 2 Beater Shaft Assembly



Item	Part No.	Description
1	HC139840	Blade - Shake Scraper
2	HC118892	Beater - Assy. Shake Long
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 Seal Shaft-Complete Part No. HC111875

Figure 3 Cabinet Parts

Item	Part No.	Description	Item	Part No.	Description
1	HC116516-03	Shroud - Assy. Evaporator	9	HC113997	Cover - Assy. Mix Tank Front
	HC150039	Cord - Harness	10	HC138165-01	Cover - Rear Mix RMT
	HC151105	Fan - Intake (Cabinet)	11	HC196222	Tank - Mix 7 Gallon 13-1/4" High
	HC151076	Guard - Fan Open	12	HC115397	Probe - Assy. Mix Level 10-3/4"
	HC150509	Switch - Door Push Button	13	HC199032-01	Duckbill - Inlet RM MTS
	HC161004	Thermometer - Barrel	14		MT - Assy. CAB Red Line (See Figure 4)
1A	HC155111	Coil - Evaporator	16	HC116065	Clamp - Assy. Soft Hose 5/8
1B	HC150040	Cord - Harness	17	HC150612	Switch - Door Push Button
2	HC160738	Clamp - Hose 1/2 ID Delrin (Drain)	18	HC138170-03	Tube - Air 8-1/2"
3	HC196068	Tubing - .375 ID x .500 OD PVC	19	HC116094	Hose - Assy. Mix Braided
4	HC150537	Cordset - Mix Level Probe	20		Meter - Air
4A	HC150536	Receptacle - Molded Level Sensor			(Order by meter number and designate black or white)
5	HC118842	Tube - Assy. Pickup			
	HC118765	Port - Assy. Inlet Mix/Air			
	HC118836	Tube - Assy. Mix Inlet			
	HC162324	Clip - Tube Retainer			
	HC160502	O-ring			
6	HC138836	Hose - Transfer Red Line			
7	HC199033	Boot - Mix Tube			
8	HC121798	Cover - Assy. RMT CAB (See Figure 4)			

Figure 4 Mix Transfer System RMT (Sheet 1 of 2)

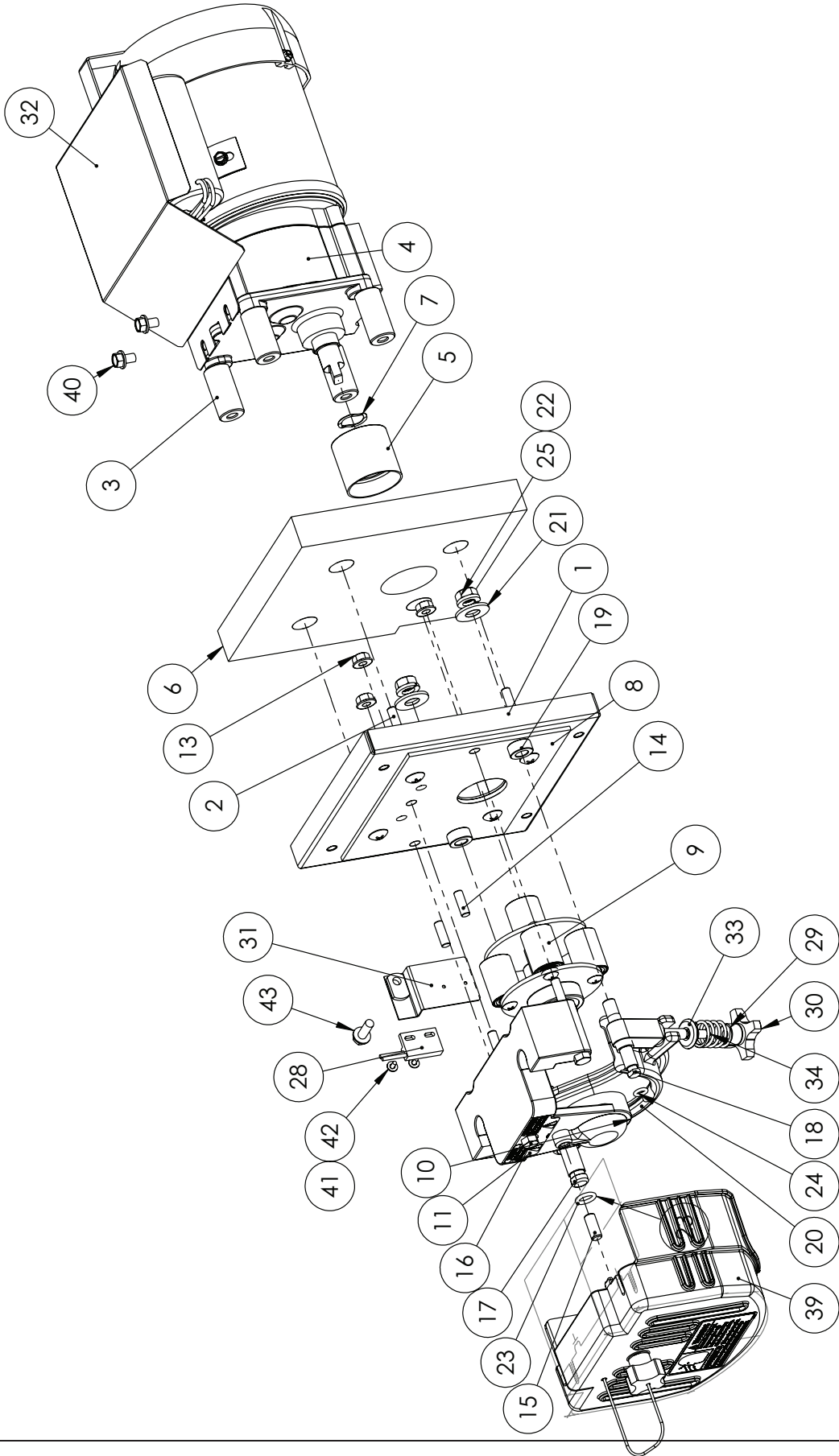
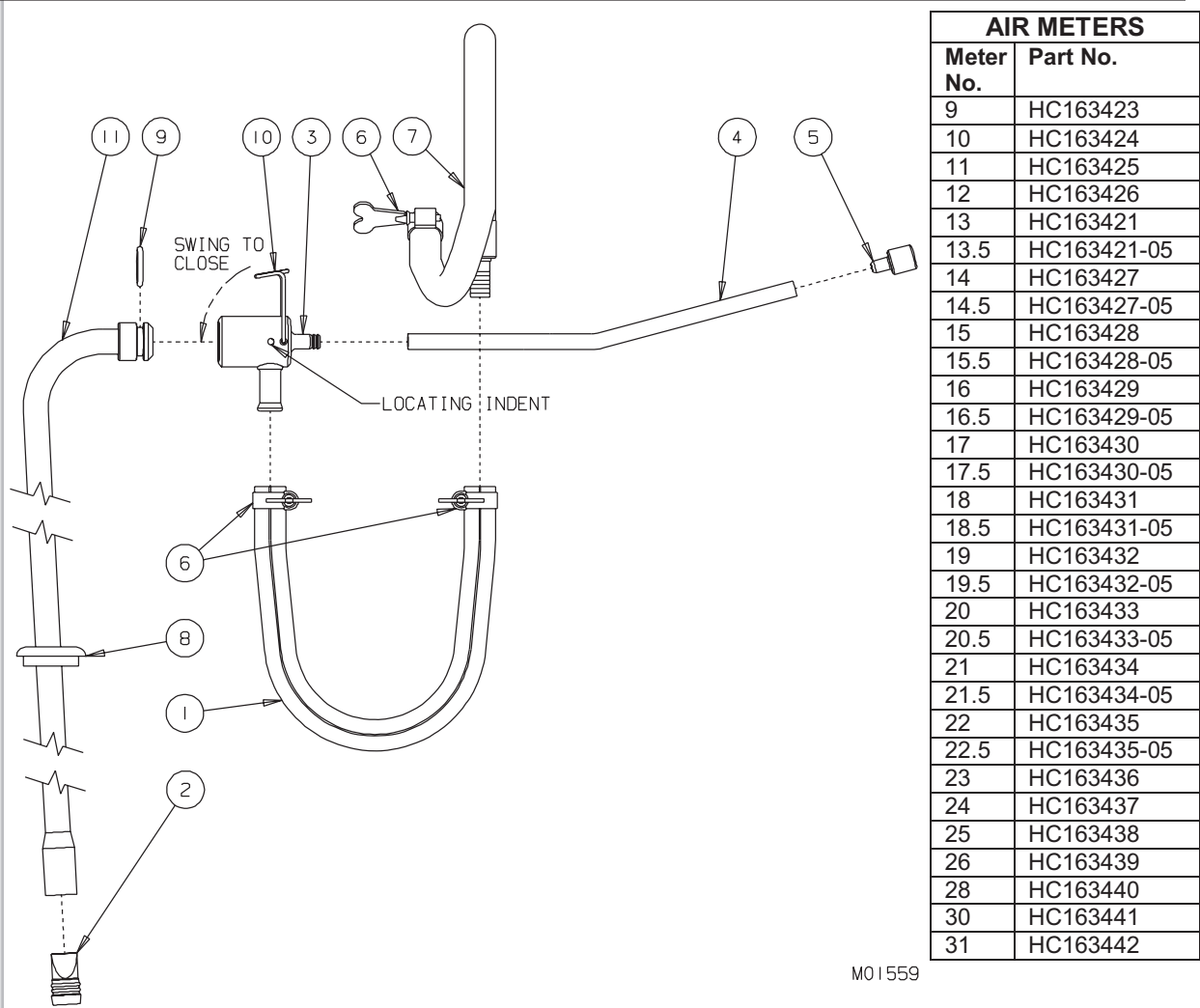


Figure 4 Mix Transfer System RMT (Sheet 2 of 2)

Item	Part No.	Description
1	HC121633	Faceplate - Assy MTS Liner Left
2	HC160093	Screw - TRPS 1/4 - 28X2 - 1/4 SST
3	HC138793	Spacer - Motor
4	HC121767	Kit - GES Pump Motor - 1/6 Hp 115/208 - 230/1/60 270R
		Includes:
		HC139046-01 Gauge - Shaft Alignment RMT
		HC160173 Washer - Spring Wave
or	HC151161	Gearmotor - 1/8 HP 208-230/3/60
5	HC139756	Shield - Drip
6	HC165524-01	Block - Insulation GES
7	HC160173	Washer - Spring Wave SST
8	HC191527	Blank - Backup MTS
9	HC116009	Roller - Assy Complete
10	HC138783-01	Support - Roller Bearing
11	HC165048	Decal - Warning Rotating Parts
12	HC160464	Nut - Hex 3/8 - 16 SST
13	HC159933	Nut - HXSF 1/4 - 20 SST
14	HC160338	Pin - Dowel 1/4 Dia X 3/4 SST
15	HC160386	Stud - 5/16 - 18 X 3/4 SST
16	HC160465	Screw - HXHC 1/4 - 20X3 1/2 SST
17	HC138797	Arm - Shoe Pivot
18	HC138799	Arm - Swing Clamp
19	HC138800	Spacer - Swing Arm
20	HC139751	Shoe - Roller
21	HC160169	Washer - Flat 3/8 SST
22	HC160170	Washer - Lock 3/8 SST
23	HC160612	O Ring (ARP - 111 .438 Id X .625 Od X .094)
24	HC160628	O - Ring
25	HC159927	Nut - Hex 3/8 - 16 SST
26	HC160140	Washer - Lock #10 ZN
27	HC160075	Screw - RDHM #10 - 24X3/8 ZN
28	HC161302	Switch - Slide/Cover
29	HC162330	Spring - Compression .79Diax1.51x.088SST
30	HC140706	Knob - Fluted 1/4 - 20 Custom
31	HC118763	Bracket - Assy Switch Mtg
32	HC121672	Cover - Assy Pump Motor (1ph only)
33	HC140711	Washer - Spring End
34	HC120504	Clamp - Assy Swing 1/4 - 20
35	HC121654	Cover - Assy Mix Pump
36	HC138890	Lanyard - Wire
37	HC138889	Knob - Cover RMT
38	HC165246	Decal - Warning Pressurized
39	HC121798	Cover - Assy Mix Pump Molded
40	HC159919	Screw - HXSF 1/4 - 20 X 3/8 ZN (1ph only)
41	HC160357	Screw - RDHM #4 - 40X1/4 STL
42	HC160393	Washer - Flat #6 Brass
43	HC159939	Screw - HXSF 1/4 - 20X11/16 SST

Figure 5 MTS - RMT Hose Assembly



Item	Part No.	Description
1	HC138836	Hose - Transfer Red Line
2	HC199032-01	Duckbill - Inlet (Valve)
3	HC118765*	Port - Assy. Inlet Mix/Air
4	HC138170-03	Tube - Air 7½ in. (Hose)
5		Meter - Air (Order by meter number)
6	HC116065	Clamp - Assy. Soft Hose 5/8
7	HC116094	Hose - Assy. Mix Braided
8	HC199033	Boot - Mix Tube (Seal)
9	HC160502*	O-ring
10	HC162324*	Clip - Tube Retainer
11	HC118836*	Tube - Assy. Mix Inlet

Can be ordered as an assembly:

* HC118842..... Tube - Assy. Pickup

Figure 6 Switch Assembly

Item	Part No.	Description
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*	HC120305	Switch - Assy. Plunger Shake Pres.
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1	HC120304	Guide - Assy Push Rod
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2	HC137671	Insulator - Switch
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3	HC137735	Bracket - Safety Switch Mounting
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4	HC150476	Switch - SPDT Simul Roller
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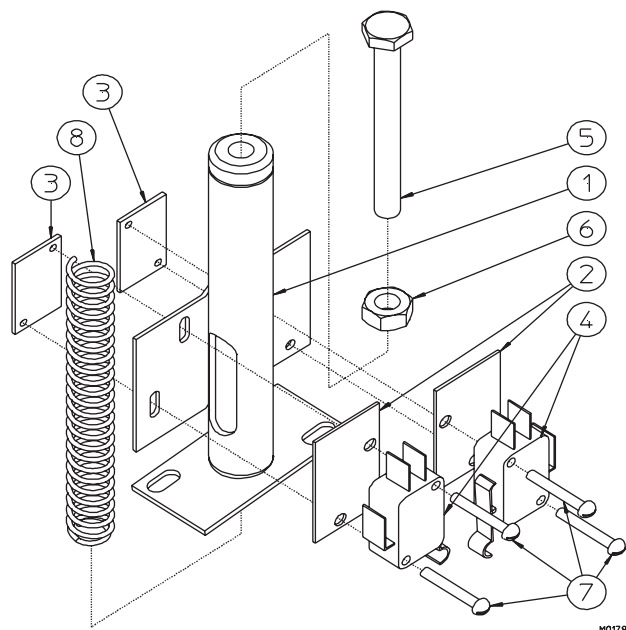
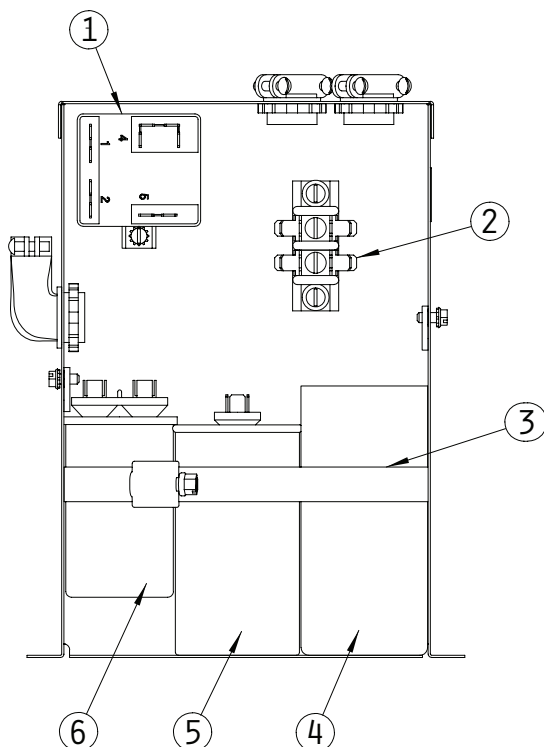
5	HC159993	Screw - HXHM 1/4-20x2-3/4 ZN
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6	HC160104	Nut - Hex 1/4x20 ZN (Adjusting Bolt)
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7	HC160433	Screw - RDHM #4-40 x 3/4 ZN
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8	HC162323	Spring - Compression MW ZN
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* Includes all items above.

**Figure 7 Capacitor & Relay Box**

Item	Part No.	Description
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*	HC120810-05	Box - Assy. (Complete)
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1	HC150029	Relay - Compressor COPZS
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2	HC150798	Strip - Terminal
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3	HC160739	Clamp - Hose 2-1/2 to 5-1/2
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4	HC151445	Capacitor - Start Compressor
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5	HC150357	Capacitor - Run Compressor
---	----------	----------------------------

6	HC150244	Capacitor - Run Beater Motor
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Not Shown

HC150235	Capacitor - Start Beater Motor
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*Includes item 1 through 6 plus box and wiring.

Figure 8 Switch Box (sheet 1 of 2)

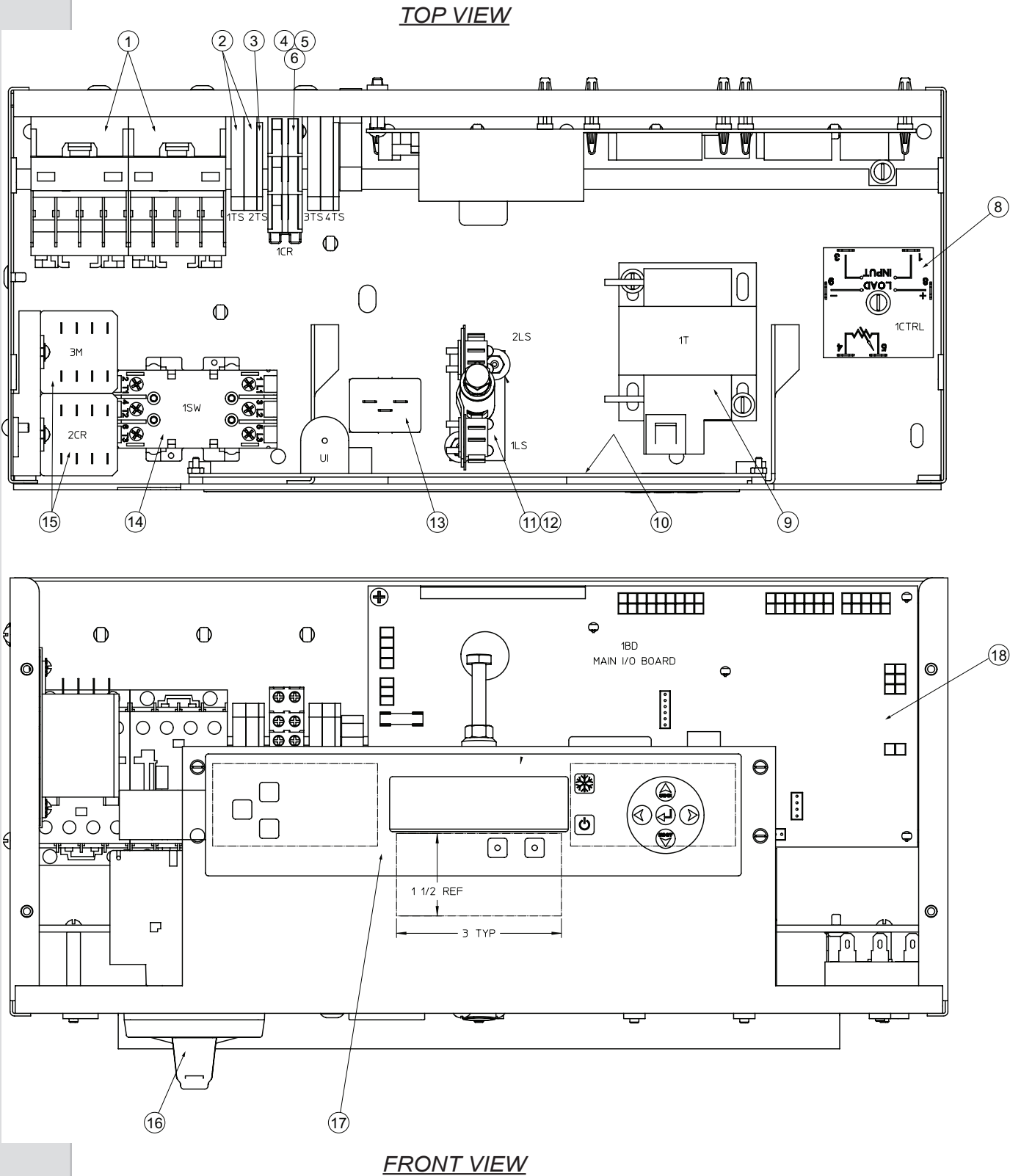
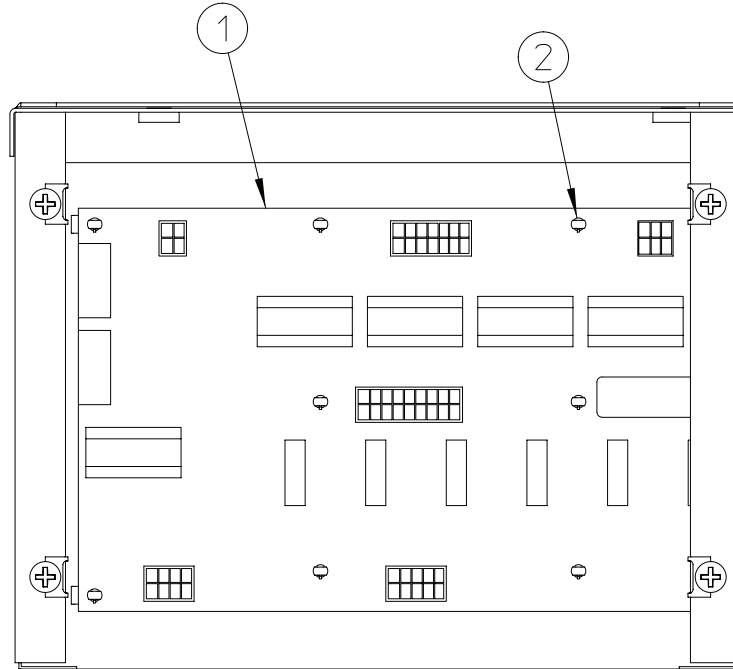


Figure 8 Switch Box (sheet 2 of 2)

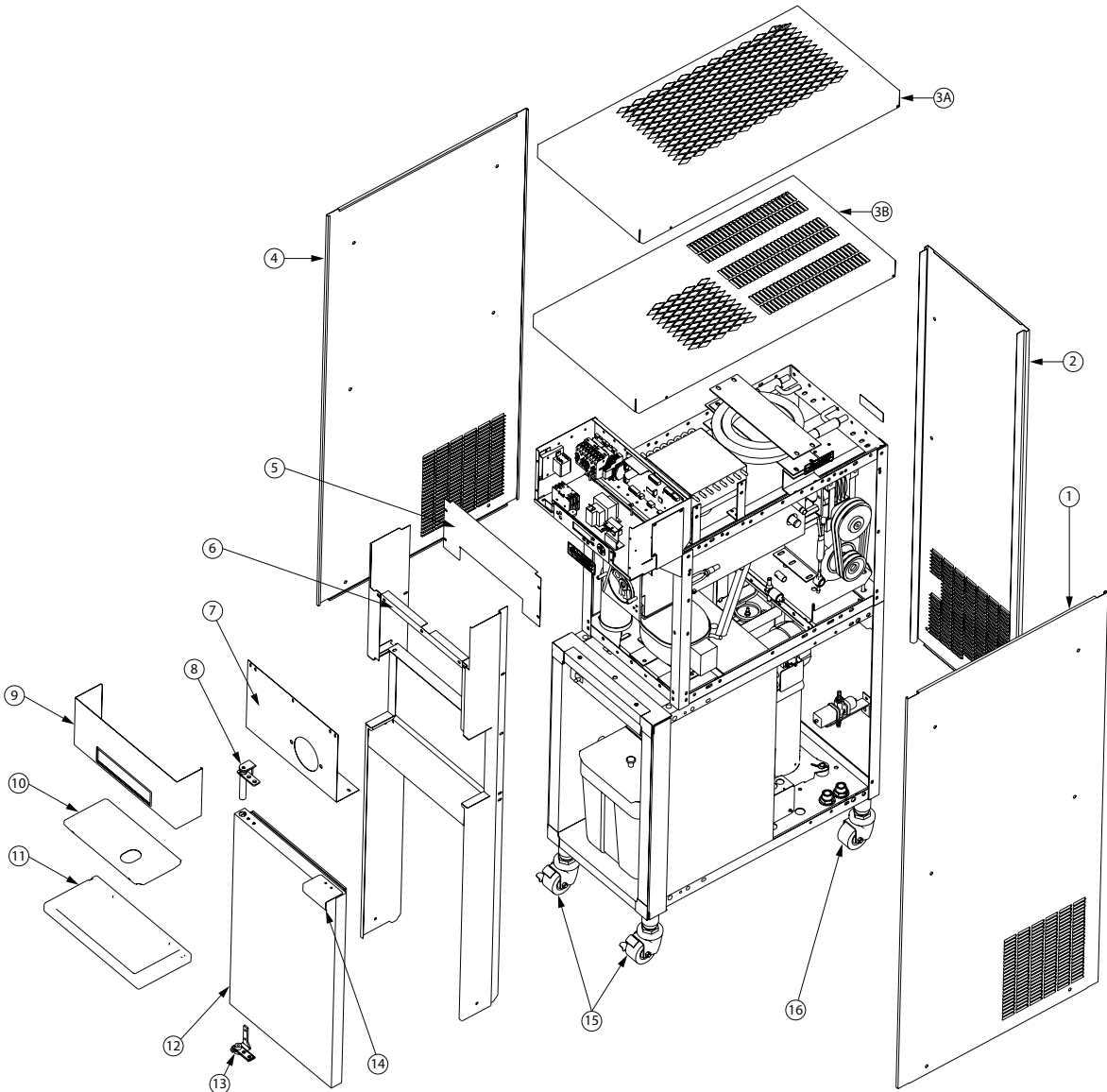
Item	Part No.	Description
1.....	HC150076.....	Contactor - 3p 25a 24v Coil BF25
2.....	HC150591-01.....	Block - Terminal Screw
3.....	HC150591-02.....	Stop - Terminal Block End Screw
4.....	HC150044.....	Relay - Miniature DPDT 230v Au Contact
5.....	HC150098.....	Socket - Miniature Relay DPDT
6.....	HC150166.....	Clip - Miniature Relay Retaining
7.....	HC150999.....	Anchor - DIN Rail (not shown)
8.....	HC150967-02.....	Control - Speed 230VAC to DC Motor
9.....	HC150276-01.....	Transformer - CNTRL 24v 75va, 4 Bolt
10.....	HC150994.....	Board - PC Ui
11.....	HC120305.....	Switch - Assy Plunger Shake Pres
12.....	HC136387.....	Shim - Spigot Switch
13.....	HC150629-01.....	Receptacle - Snap in IEC60320
14.....	HC151708.....	Switch - Disconnect
15.....	HC150343-01.....	Relay - Control Flange DPDT 12vdc
16.....	HC151709.....	Knob - Rotary Disconnect
17.....	HC150022.....	Membrane - 1 Barrel Touch Pad
18.....	HC151701.....	Board - Pc Main

Figure 9 Relay Board Box

M02066-7

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

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				

Figure 9 Panel Breakdown (Parts)

Item	Part No.	Description
1	HC139835.....	Panel - Side RH
2	HC139837.....	Panel - Rear (AC & WC)
3A.....	HC121698.....	Panel - Assy. Top (AC)
or		
3B.....	HC121701.....	Panel - Assy. Top (WC)
4	HC139834.....	Panel - Side LH
5	HC141323-02	Cover - Assy. Electric Box
6	HC118885.....	Panel - Assy. Front
		HC159175 Catch - Bullet (Drip Tray Button)
		HC160289 Nut - Push Round (Clip for Button)
7	HC139836-01	Panel - Dispense 18 in
8	HC162045.....	Hinge - Pivot 1 - 3/8" Top LH includes
		HC162052 Spring LH
9	HC121695.....	Trimstrip - Assy. 18" GEN
10	HC118893.....	Insert - Assy. Drip Tray
11.....	HC196107-02	Tray - Drip 18" Black
12	HC114260-06.....	Door - Assy. Complete 18" (Without hinges)
		HC160563-02 ... Gasket - Magnetic (Door 18")
		HC136199 Pull - Door (Handle)
13	HC162046.....	Hinge - Pivot 1 - 3/8" Bottom LH
14	HC136199.....	Pull - Door (Handle)
15	HC162131-01	Caster - W/Brake
16	HC162132-01	Caster - W/O Brake

Not Shown

HC118597 Actuator - Assy. Door Switch (Not Shown)

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.

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

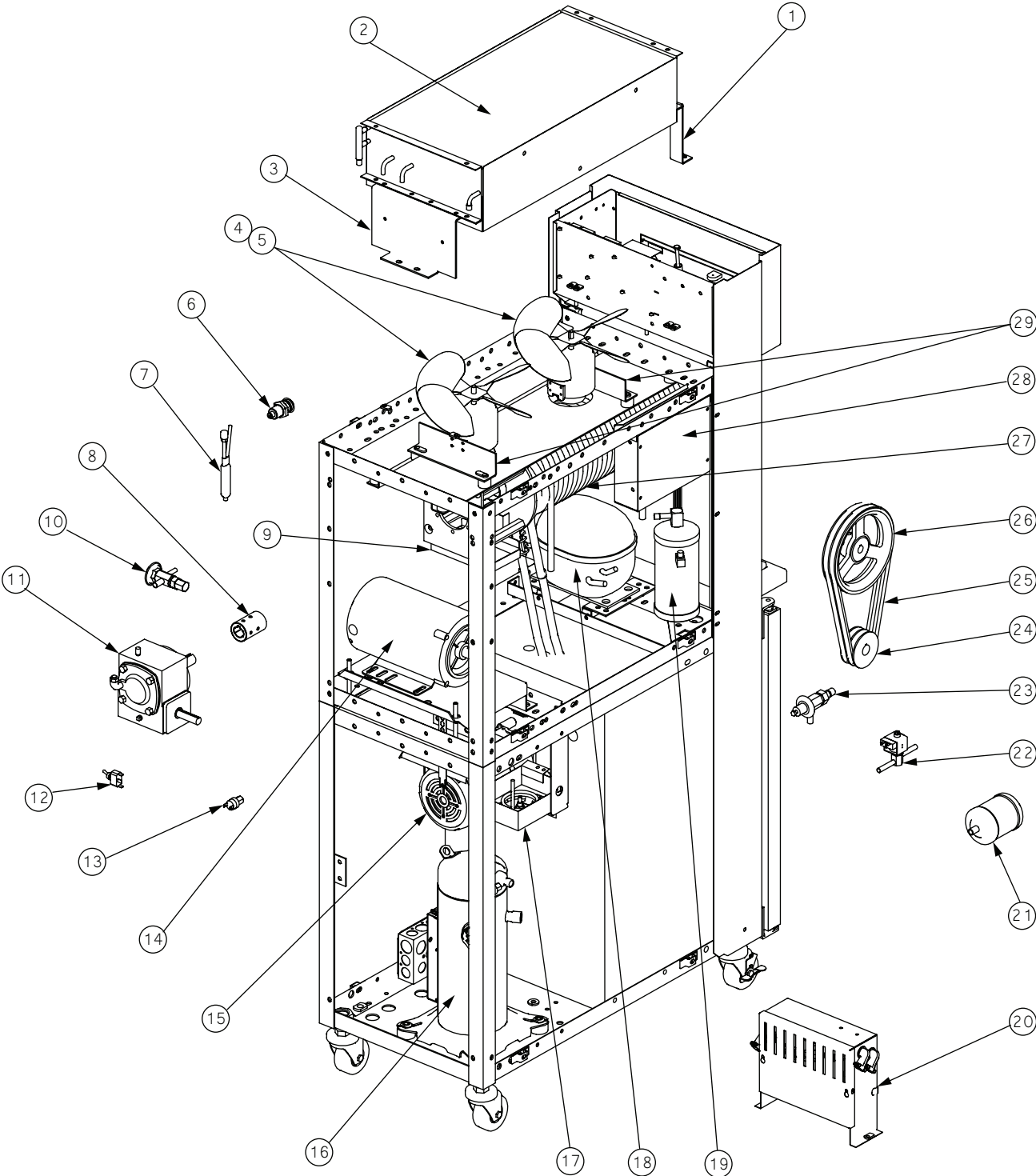
AC = Air cooled

WC = Water Cooled

ACR = Air Cooled Remote

Panel Decals & Labels	
Part No.	Description
HC165119	6" Air Flow
HC165025-05	Beater Warning
HC164031	Blade Installation
HC164452	Cleaning Instructions
HC165093	Clear Overlay
HC165013	CMT Patent
HC164446-01	Nameplate SN
HC164239	MTS Connect Red Line
HC165126	Panel Removal
HC165124	Top Air Discharge
HC164225-10	Trimstrip
HC164176	Electro Freeze Label
HC165246	Warning - Pressurized

Figure 11 AC Side/Back View (Breakdown)



M02095

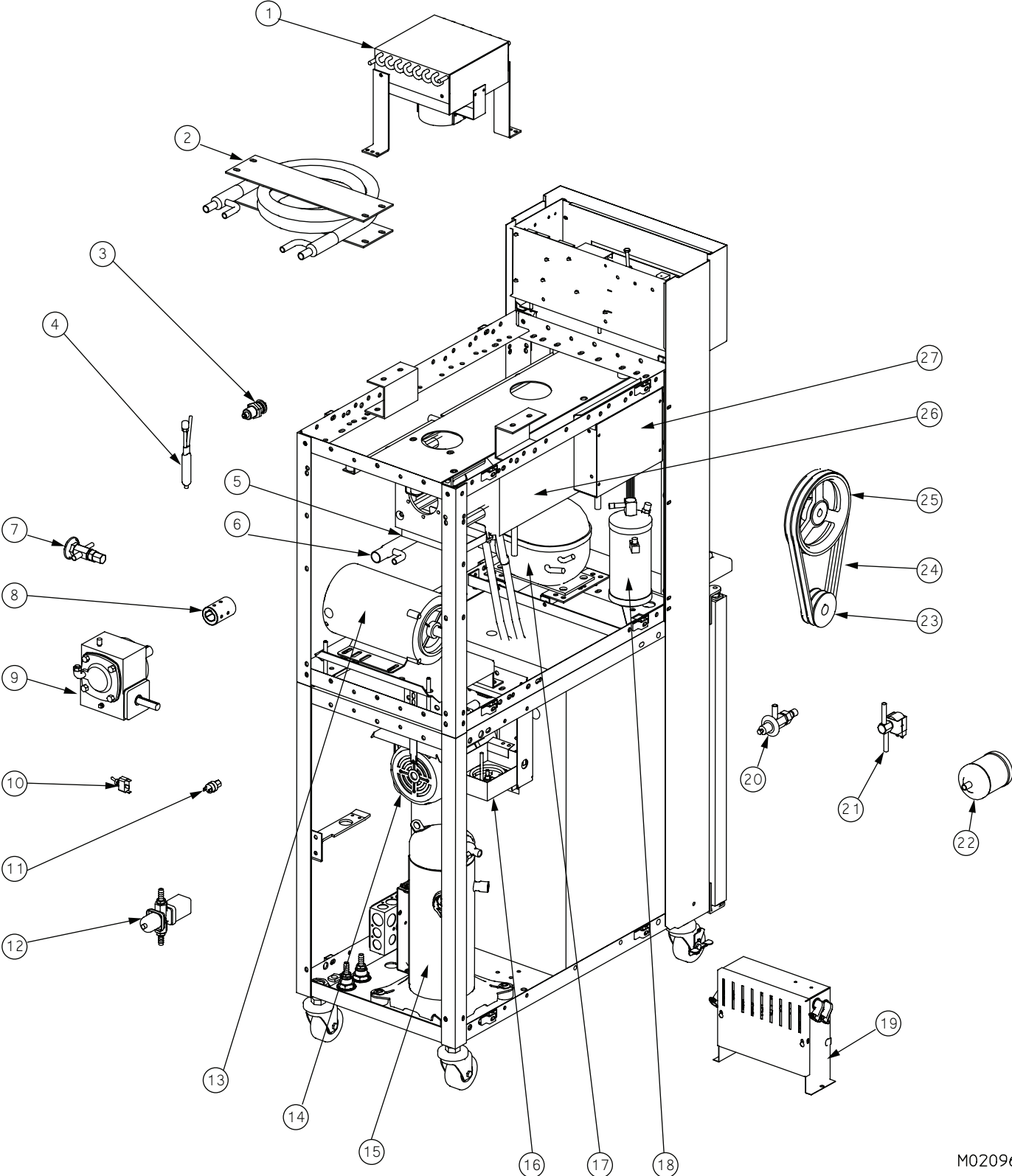
Figure 11 AC Side/Back View (Parts)

Item	Part No.	Description
1	HC118881.....	Bracket - Front Condenser
2	HC155102	Condenser - Air Rifled
3	HC118880.....	Bracket - Rear Condenser
4	HC159023	Blade - Fan 11 In 36 Deg
5	HC151077-02	Motor - Fan 50w 230v 50/60Hz W/Plug
6	HC121558	Transducer - Pressure
7	HC155498	Drier - Filter W/Access
8	HC111780	Coupling - Assy 7/8in Drive
9	HC118883.....	Tray - Assy. Drain Tube
10	HC155399	Valve - Thermostatic Expansion
11.....	HC153360	Reducer - Gear 5/1 HCD
12	HC150466	Switch - Voltage
13	HC155405	HPCD A/C 10A
	HC155701	LPCD
14	HC151087-01	(1ph) Motor - 1.5hp 208-230/1/60 Fe
		HC150244Run - Capacitor
		HC150235Start - Capacitor
	HC151088-01	(3ph) Motor - 1.5hp 208/230/460-3-60
15	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
16	HC121796	(1ph) Compressor - Scroll ZS19KAE - PFV
		HC150029Start - Relay
		HC151445Start - Capacotor
		HC150357Run - Capacitor
	HC21797	(3ph) Compressor - Scroll ZS13KAE - TF5
17	HC120301-01	Pan - Condensate
18	HC120299	Compressor - NL6.1MF CAB
19	HC155071	Receiver - 3lb 3/8 ID Sweat W/O Valve
20		Capcitor Box - 1Ph Only
21	HC155054	Drier - Filter 16 Cu In
22	HC155059	Valve - Solenoid
22a	HC151477	Coil - Solenoid
23	HC155059	Glass - Sight
24	HC153620	Sheave - 7/8 Bore 3.25 OD 2.80PD
25	HC153181	Belt - V
26	HC153602	Sheave - 5/8 Bore 7.25
27	HC121488	Cylinder Assy.
28	HC151702	Board - Relay
29	HC118884.....	Bracket - Fan Motor

Not Shown:

HC161212-01Cylinder Temperature Sensor
 HC161222Cabinet Temperature Sensor
 HC121808Exchanger - Heat

Figure 12 WC Side/Back View (Breakdown)



M02096

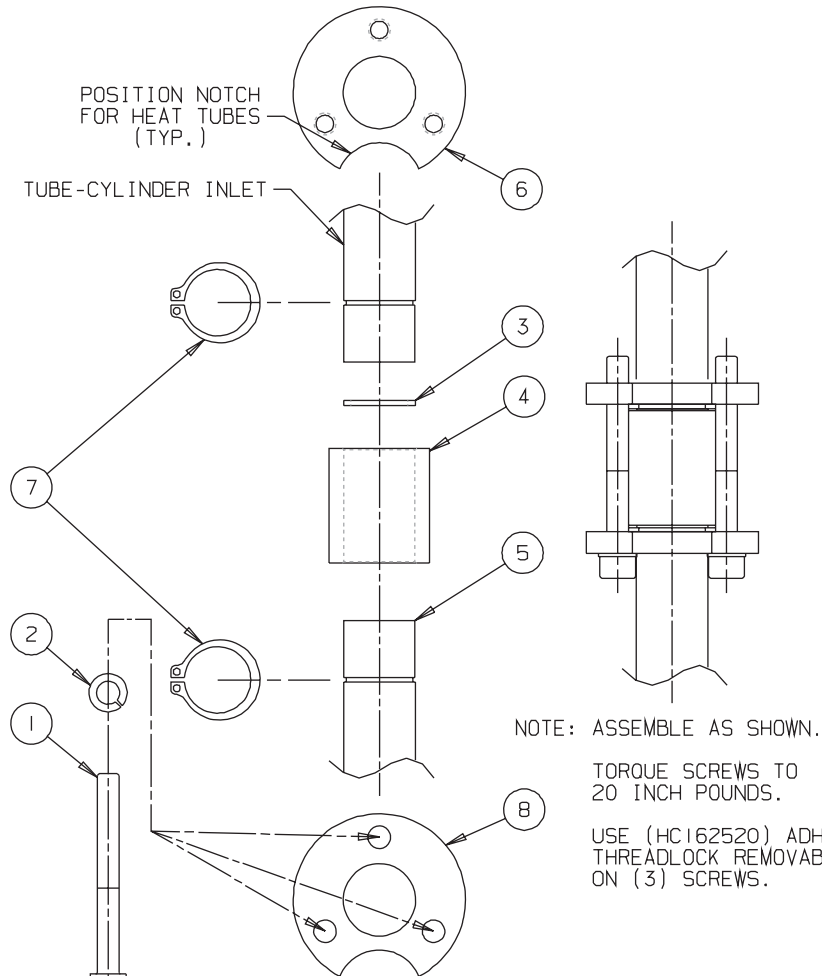
Figure 12 WC Side/Back View (Parts)

Item	Part No.	Description
1	HC120446-01	Condenser - Assy Cab Comp
2	HC155029	Condenser - Water
3	HC121558	Transducer - Pressure
4	HC155498	Drier - Filter W/Access
5	HC118883	Tray- Assy. Drain Tube
6	HC121808	Exchanger - Heat
7	HC155399	Valve - Thermostatic Expansion
8	HC111780	Coupling - Assy 7/8in Drive
9	HC153360	Reducer - Gear 5/1 HCD
10	HC150466	Switch - Voltage
11	HC151702	HPCO W/C 10A
	HC155701	LPCD
12	HC113769	Valve - Assy Water
13	HC151087-01	(1ph) Motor - 1.5hp 208-230/1/60 Fe
	HC150244	Run - Capacitor
	HC150235	Start - Capacitor
	HC151088-01	(3ph) Motor - 1.5hp 208/230/460-3-60
14	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
15	HC121796	(1ph) Compressor - Scroll ZS19KAE - PFV
	HC150029	Start - Relay
	HC151445	Start - Capacitor
	HC150357	Run - Capacitor
	HC21797	(3ph) Compressor - Scroll ZS13KAE - TF5
16	HC120301-01	Pan - Condensate
17	HC120299	Compressor - NL6.1MF CAB
18	HC155071	Receiver - 3lb 3/8 ID Sweat W/O Valve
19		Capcitor Box - 1Ph Only
20	HC155479	Valve - Automatic Expansion
21	HC155395	Valve-Solenoid Body 3/8 ODM
	HC151477	Coil-Solenoid 208-240V MKC-1TS
22	HC155054	Drier - Filter 16 Cu In
23	HC153620	Sheave - 7/8 Bore 3.25 OD 2.80pd
24	HC153181	Belt - V
25	HC153602	Sheave - 5/8 Bore 7.25
26	HC121488	Cylinder Assy
27	HC151702	Board - Relay

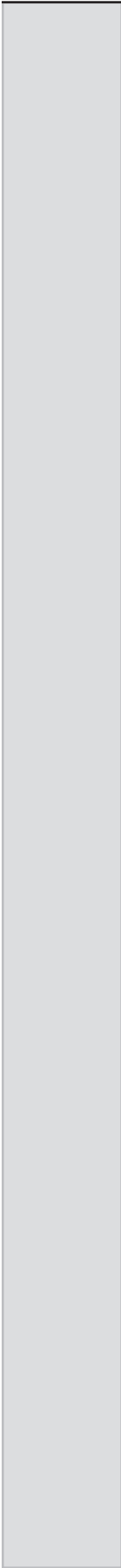
Not Shown:

HC161212-01Cylinder Temp Sensor
 HC161222Cabinet Temp Sensor

Figure 13 Mix Feed Seal Assembly



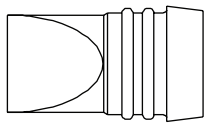
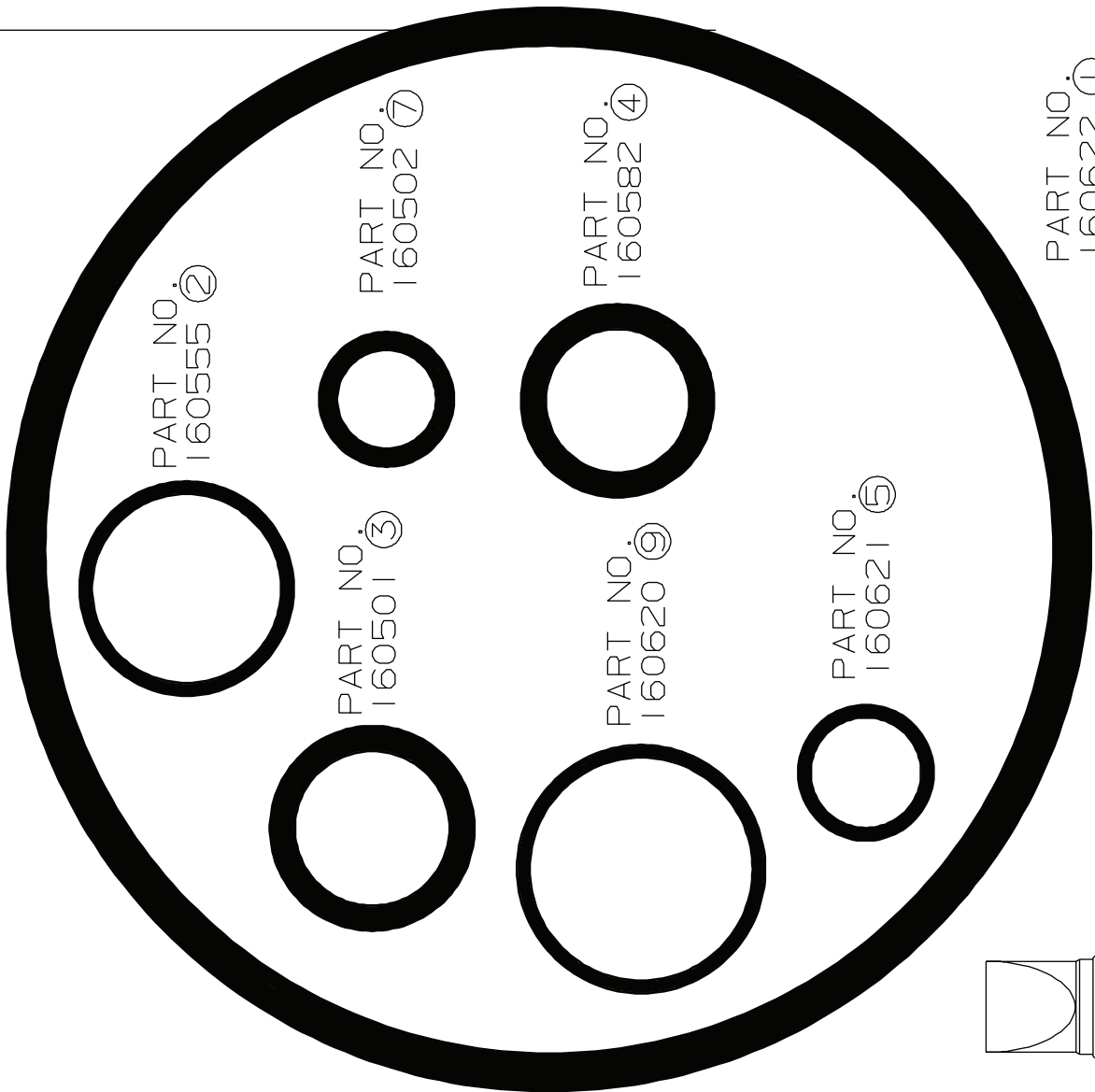
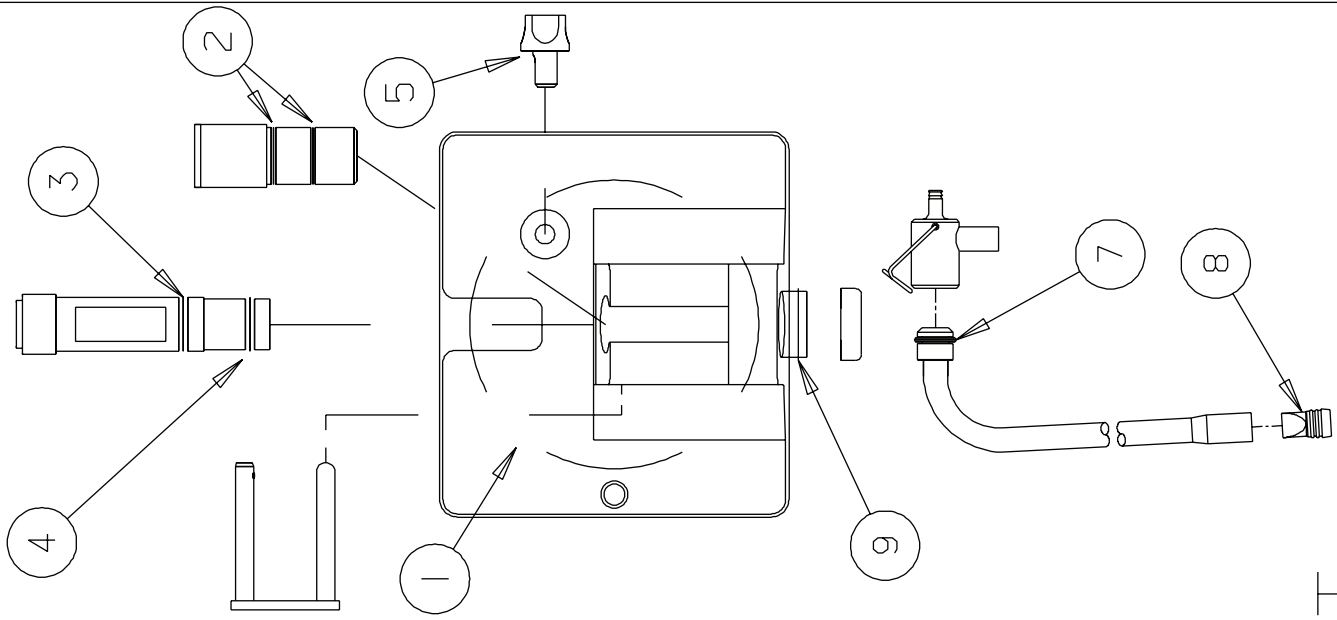
Item	Part No.	Description
1	HC160320	Screw - SKHC #10-24 x 1-3/4 SST
2	HC160166	Washer - Lock #10 SST
3	HC160556	Gasket - Mix Joint
4	HC139351	Collar - Alignment
5	HC141757	Tube-Mix Feed Clamp LT
	HC141758	Tube-Mix Feed Clamp RT
6	HC139352	Clamp - Ring Threaded
7	HC160312	Ring - Retaining 5/8 Ext. SST
8	HC139353	Clamp - Ring



Accessories

Part No.	Description
HC191130	Bar - Splash Shield (w/HC140995 Shield)
HC196103	Bottle - Wash (Plunger)
HC158010	Brush - 6" dia.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 OAL
HC162133	Caster - Low Profile w/Brake
HC162134	Caster - Low Profile w/o Brake
HC184257	Chart - O-Ring (Laminated)
HC184880	DVD - Training 78RMT (Operator)
HC158012	Handle - Brush Fiberglass
HC119106	Kit - O Ring 78RMT
HC112978	Leg - Assy. 6"
HC158054A.....	Lubricant - Lubri-Film Plus 4 oz. Tube
HC158014	Sanitizer - Stera Sheen Case/4
HC158014A.....	Sanitizer - Stera Sheen 4 lb. jar
HC158049	Scale - Overrun
HC140995	Shield - Splash (w/HC191130 Bar)
HC169374	Tool - O-Ring Removal
HC118996	Tube - Assy. Mix Inlet (Bag-in-Box Adapter)

O-Ring Chart



PART NO.
199032-01 (8)

PART NO.
160622 (1)

O-RING CHART