

ELECTRO FREEZE®

REPLACEMENT PARTS MANUAL with ILLUSTRATIONS

QUALITY PARTS
PROTECT
YOUR
EQUIPMENT

**SOFT SERVE
FREEZER**
Models 55TF,
56TF, 66TF

184615-01 9/99

**KEEP YOUR FREEZER IN EXCELLENT CONDITION. ALWAYS CONTACT
YOUR ELECTRO FREEZE DISTRIBUTOR FOR REPLACEMENT PARTS.**

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: _____

If you require any further assistance, contact H. C. Duke & Son, Inc. *Electro Freeze* as follows:



Phone: (309) 755-4553

FAX: (309) 755-9858

Table of Contents

PART II

ILLUSTRATIONS

Figure 1	Head Assembly	1
Figure 2	Beater Shaft Assembly	2
Figure 3	Mix Feed Tube Assembly	3
Figure 4	Switch Box	4
Figure 5	Gear Reducer	5
Figure 6	Rear View 55TF	6
Figure 7	Rear View 56TF	8
Figure 8	Rear View 66TF	10
Figure 9	Panel View 56TF, 66TF	12
Figure 10	Panel View 55TF	13

OTHER LISTS and INFORMATION

Accessories	14
O-Ring Chart	15

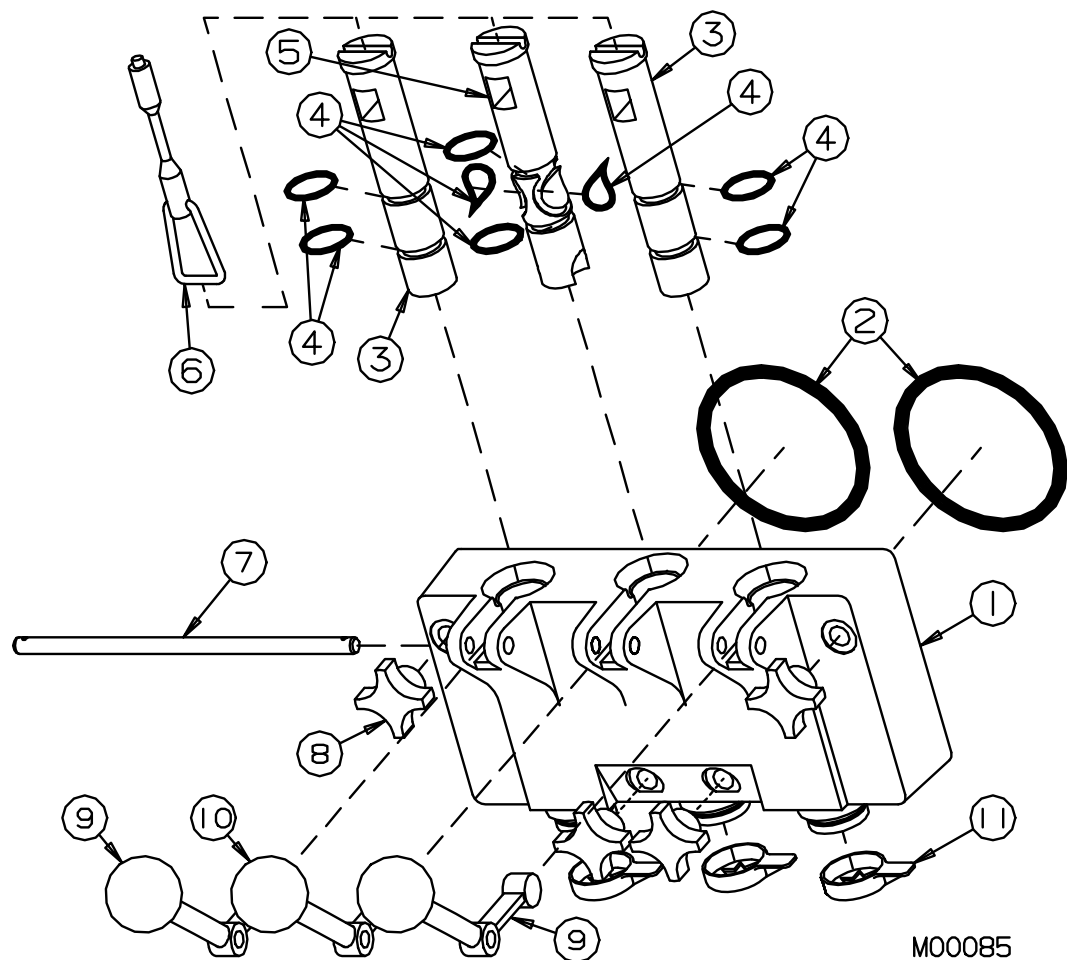


Figure 1 Head Assembly

Item	Part No.	Description
*	114995	Head Assembly (Complete w/o #6 and #8)
1	116301	Head-Dispense
2	159309	O-ring-Head
3	137174	Plunger-Dispense Side
4	160501	O-ring-Plunger
5	138009	Plunger-Dispense Center
6	113426	Push Rod Assembly
7	160269	Pin-Lever
8	162625	Knob-Hand
9	110007	Handle-Assy. Side
	110022	Handle-Assy.
	162629	Knob-Ball
10	114808	Handle-Assy. Center
	114809	Handle-Assy.
	162629	Knob-Ball
11	196185	Nozzle-Serrated
	116410	Switch-Dispense Head Kit (not shown)

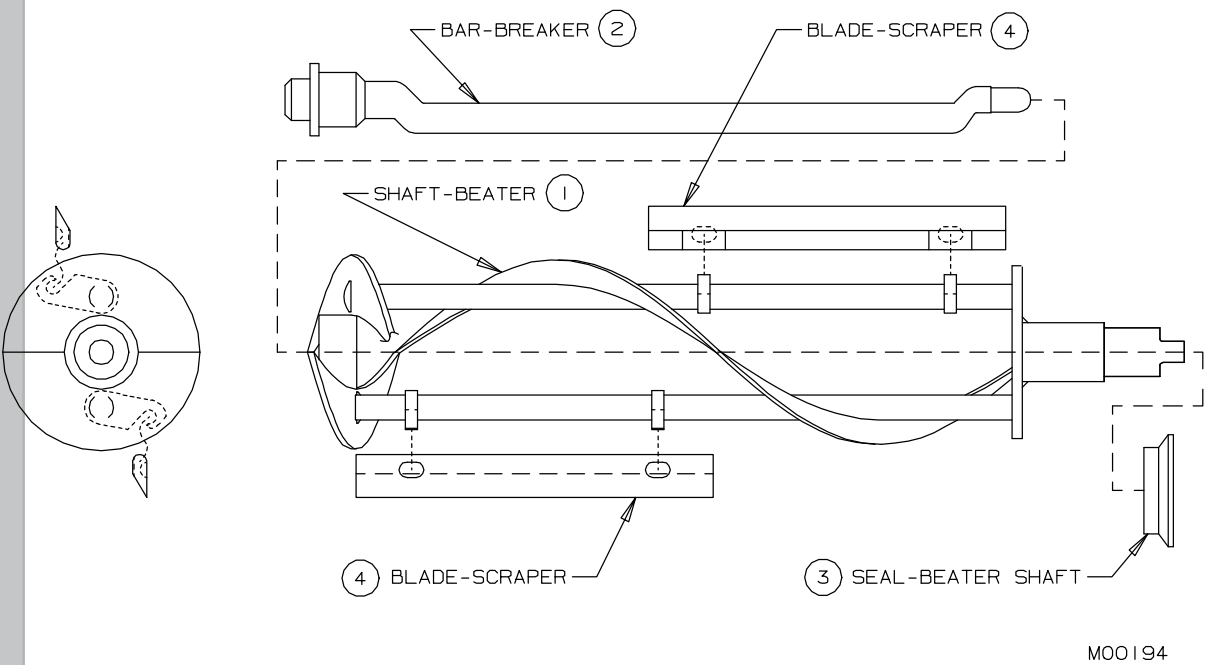


Figure 2 Beater Shaft Assembly

Item	Part No.	Description
1	115437	Shaft Assembly-Beater
2	196158	Bar-Breaker
3	113824	Seal Assembly-Shaft
	160557	Seal-Beater Shaft
	136025	Washer-Shaft Seal
4	137519	Blade-Scraper

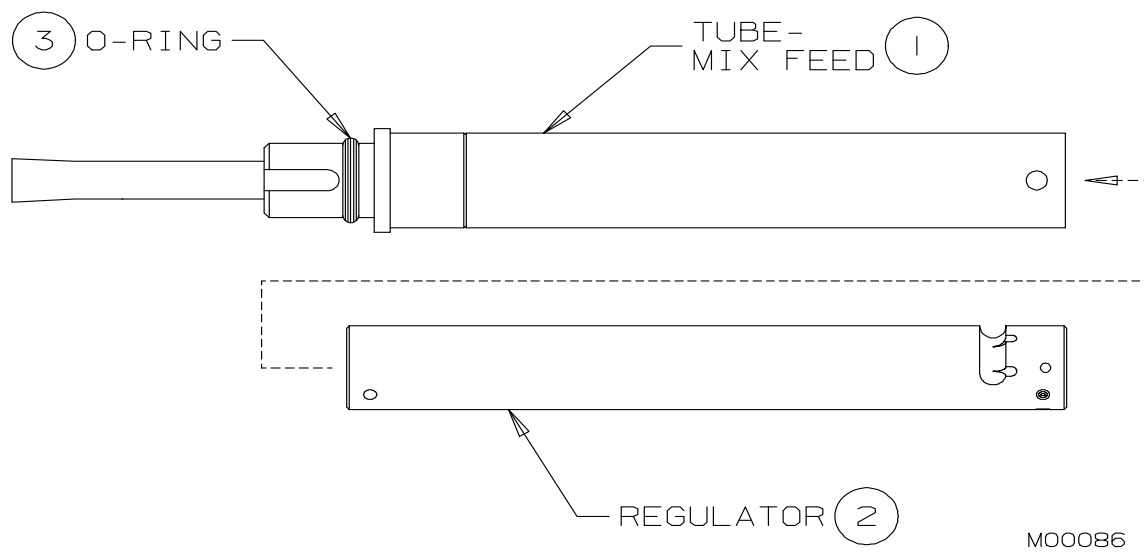


Figure 3 Mix Feed Tube Assembly

Item	Part No.	Description
*	115430	Tube Assembly-Mix Feed-Complete
1	115426	Tube-Mix Feed Assy.
2	137558	Regulator
3	160503	O-ring-Mix Feed Tube

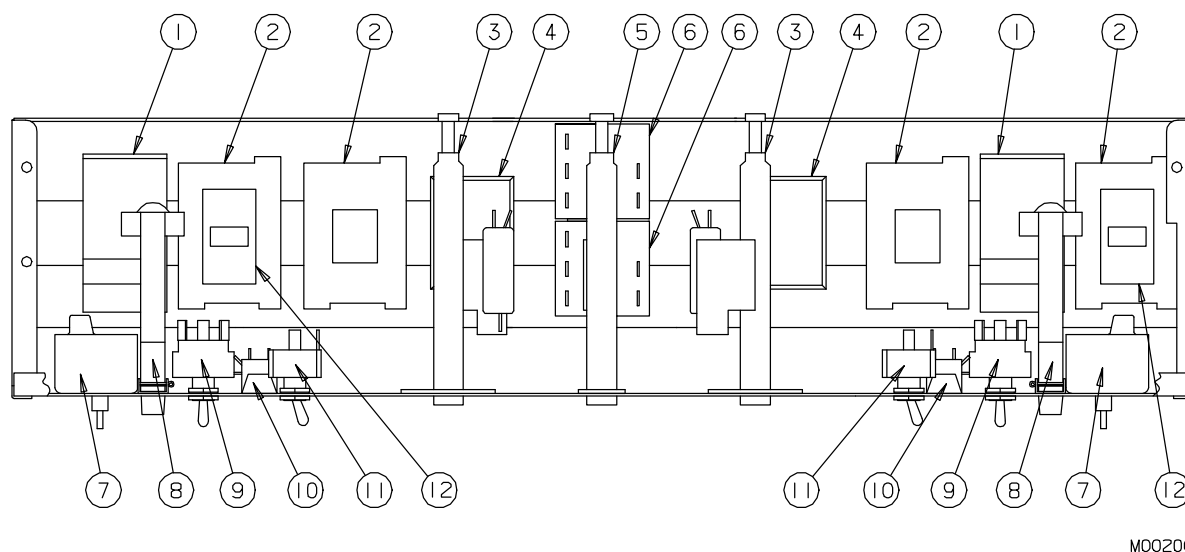


Figure 4 Switch Box

Item	Part No.	Description
1	114758	Relay-Assy. Overload 4.0-6.0A (208-230-3-60)
	150113	Relay-Overload 4.0-6.0A
2	114759	Relay-Assy. Overload 5.5-8.0A(208-230-1-60)
	150114	Relay-Overload 5.5-8.0A
3	150106	Contactor-Motor/Compressor
	150108	Coil
4	115550	Switch Ass'y-Plunger Side
	150477	Switch-Plunger
5	150202	Indicator-Mix Level
	115551	Switch Ass'y-Plunger Ctr.
6	150478	Switch-Plunger
	159374	Spring-Plunger Switch
7	150224	Timer-20 Sec.
	150215	Timer-5 minute
8	162604	Knob
	115524	Lever-Reset
9	159036	Button-Reset
	150463	Switch-Toggle AUTO/OFF/CLEAN
10	150795	Strip-Terminal
11	159235	Switch-Toggle DAY/NIGHT
12	150103	Deck-Adder

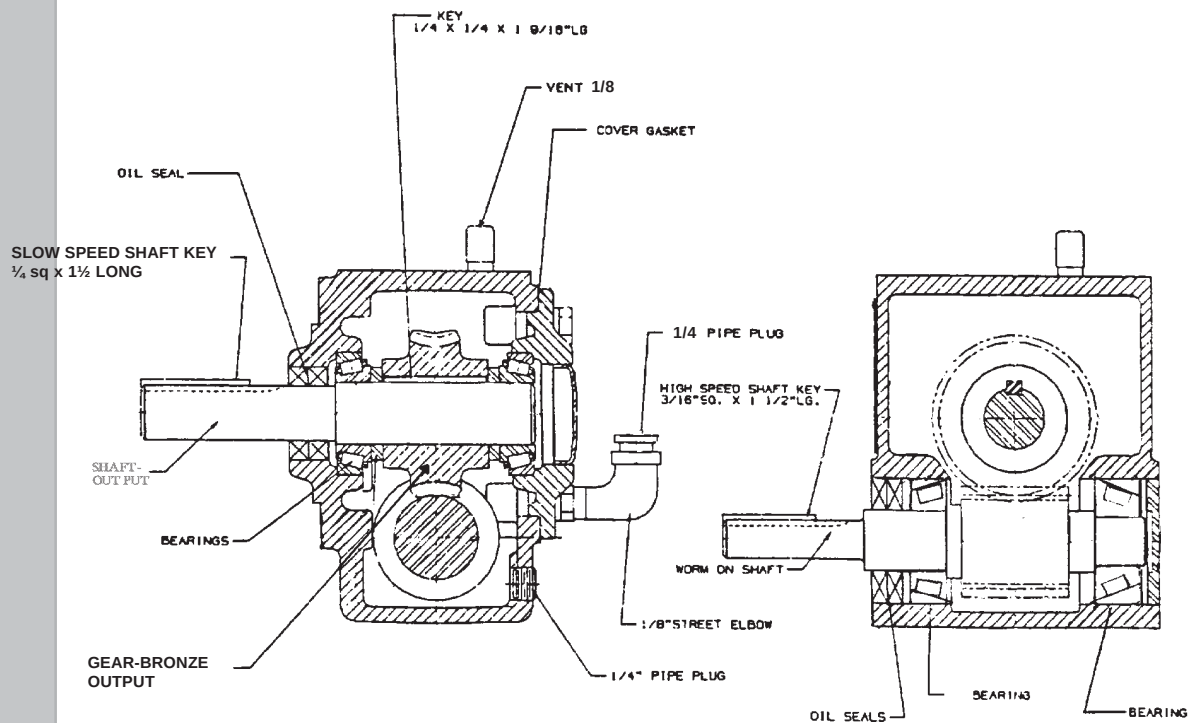


Figure 5 Gear Reducer HCD920

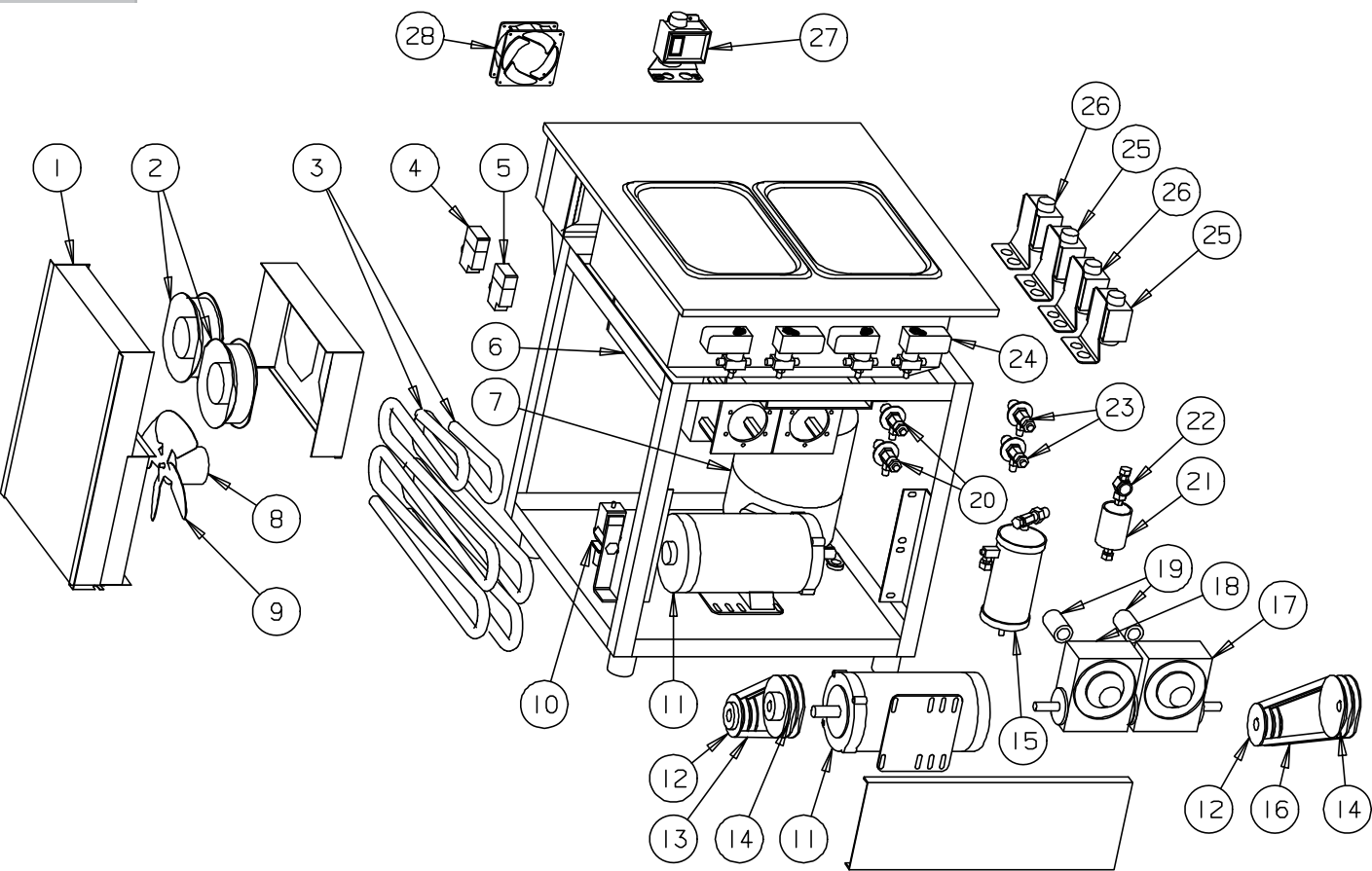
Model HCD920

153353 5:1 Ratio A Side

153354 5:1 Ratio B Side

Part No.	Description
116537	Seal Kit
111780	Coupling
158055	Gear Reducer Oil 51001

Figure 6 Rear View 55TF

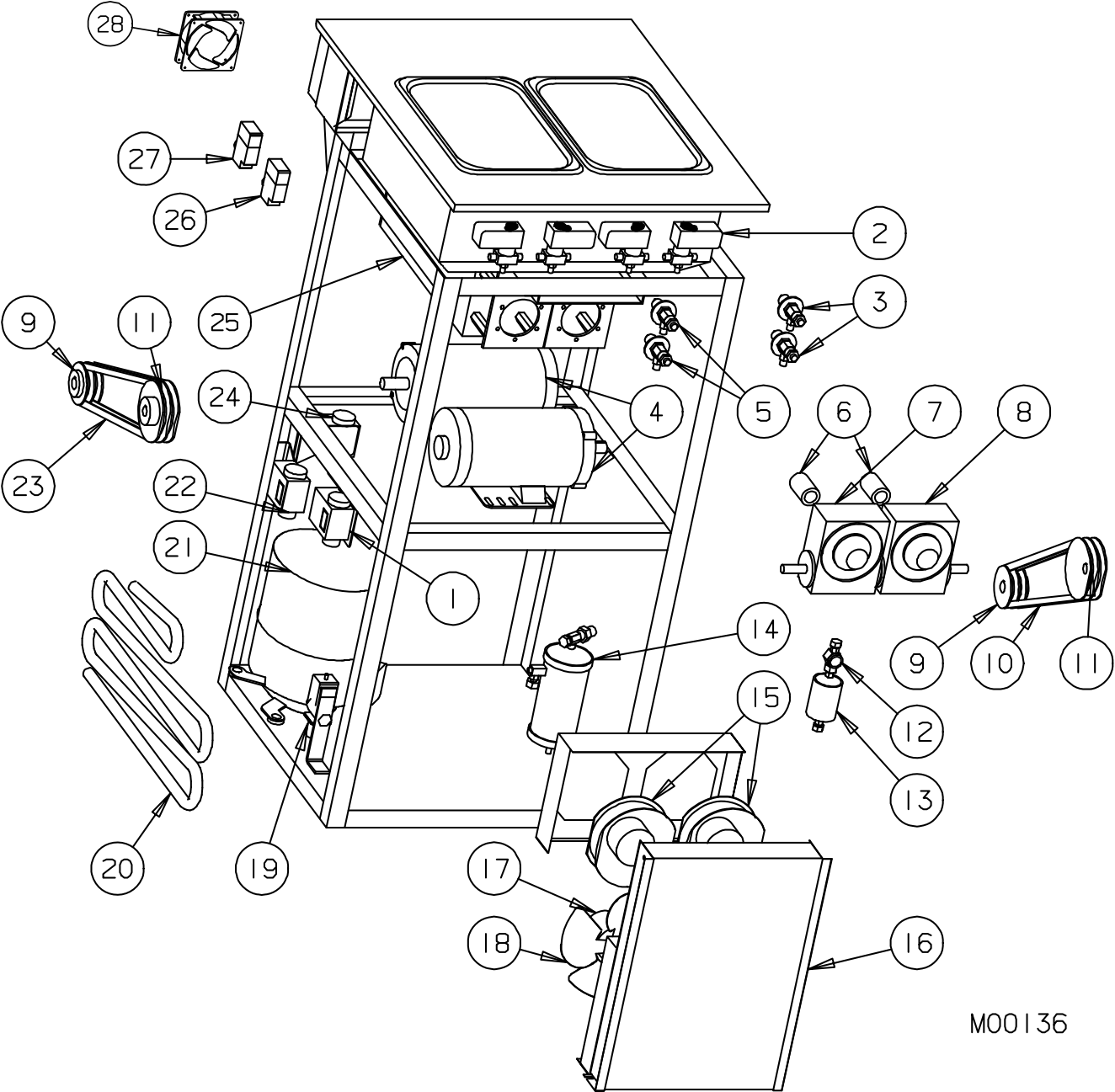


M00135

Figure 6 Rear View 55TF

Item	Part No.	Description
1	155115-C	Condenser-Air
2	151098	Fan-Axial (Air Cooled)
3	155038	Condenser-Water
4	155425	Cut-out High Pressure
5	155403	Cut-out Low Pressure
6	115467	Cylinder Assembly-Complete
7	117018	Compressor-Assy. (3 ph) AHA2490ZXF
	or	
	118235	Compressor-Assy. (3 ph) AVA2490ZXT
7A	116973	Compressor-Assy. (1 ph) AHA2490ZXD
	151356	Box-Assy. Capacitor & Relay
	150361	Capacitor-Start
	150362	Capacitor-Run
	150363	Relay-Start
	or	
	118234	Compressor-Assy. (1 ph) AVA2490ZNX
	151362	Box-Assy. Capacitor & Relay
	150398	Capacitor-Start
	150399	Capacitor-Run
	150401	Relay-Start/Run
7B	118257	Valve-Assy. Rotalock (AH compressors only)
8	151080	Motor-Fan (Air Cooled)
9	159018	Blade-Fan (Air Cooled)
10	155410	Valve-Water
	155444	Kit-Water Valve Repair
11	118142	Kit-Motor & Capacitors (Beater) 1-1/2 hp 208-230-1-60
	150235	Capacitor-Start
	150236	Capacitor-Run
	150877	Switch-Centrifugal
11A	151088	Motor-Beater 1- 1/2 hp 208-230-3-60
12	153626	Pulley-7/8 Bore 3.25 OD 3.00 PD - Driver
13	153169	Belt-V (Pulley B Side)
	153322	Key-Drive 3/16 x 1½
14	153621	Pulley-5/8 Bore 5.50 OD 5.20 PD - Driven
15	155057	Receiver
16	153114	Belt-V (Pulley A Side)
17	153353	Reducer-Gear LH 5/1 (A side)
18	153354	Reducer-Gear RH 5/1 (B side)
19	111780	Coupling-Drive
20	155449	Valve-Automatic Expansion (Hopper)
21	155054	Drier-Filter
22	155059	Glass-Sight
23	155448	Valve-Automatic Expansion (Cylinder)
24	155421	Valve-Solenoid
	155434	Kit-Solenoid Valve
25	155442	Thermostat-Cylinder-Day
26	155442	Thermostat-Cylinder-Night
27	161210	Thermostat-Hopper 1.5 Diff.
28	151094	Fan-Axial (Water Cooled)
	155418	Valve-Check (not shown)

Figure 7 Rear View 56TF

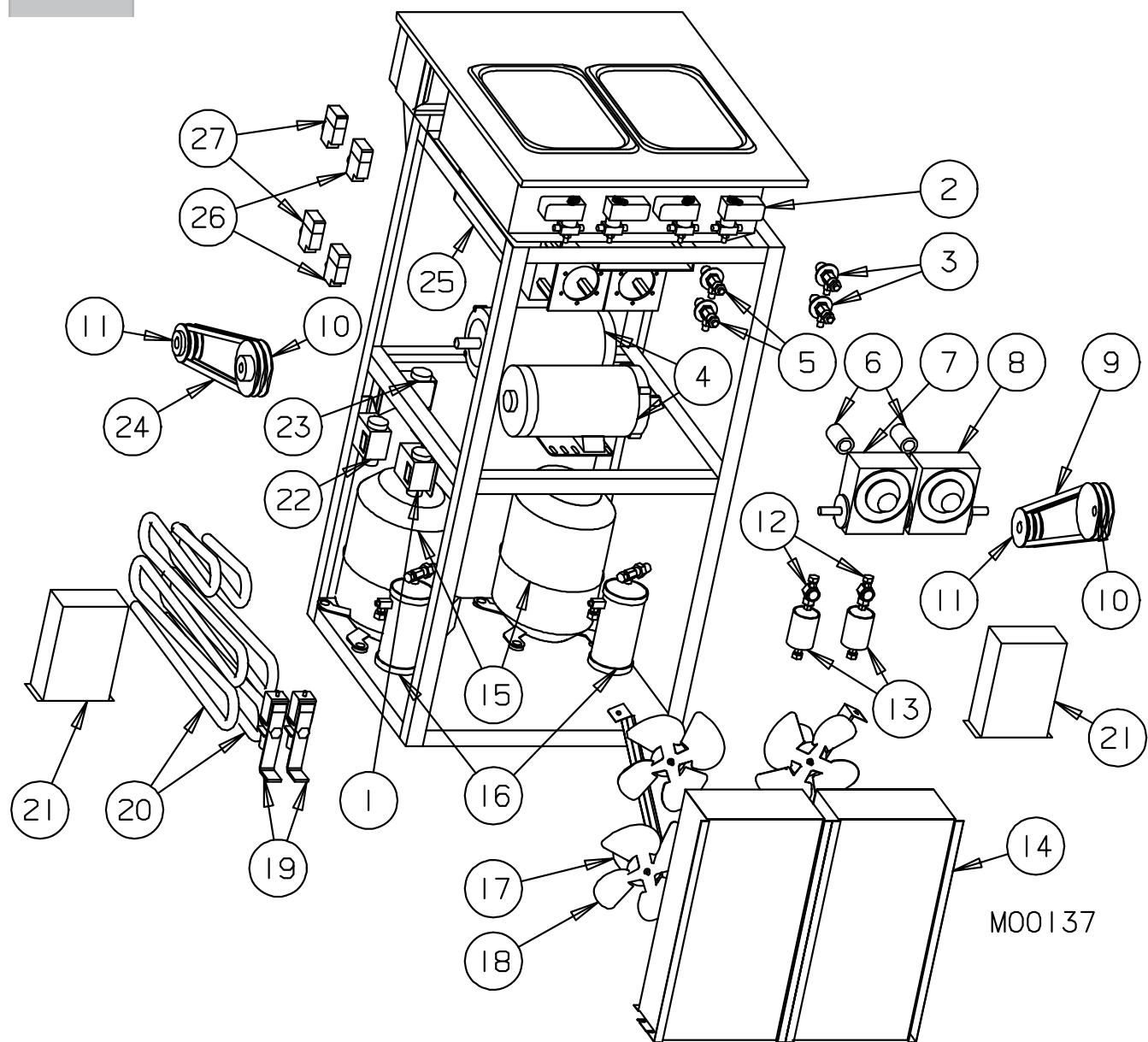


M00136

Figure 7 Rear View 56TF

Item	Part No.	Description
1	161210	Thermostat-Hopper 1.5° Diff.
2	155421	Valve-Solenoid
	155434	Kit-Solenoid Valve Repair
3	155448	Valve-Automatic Expansion (Cylinder)
4	118142	Kit-Motor & Capacitors (Beater) 1-1/2 hp 208-230-1-60
	150235	Capacitor-Start
	150236	Capacitor-Run
	150877	Switch-Centrifugal
4A	151088	Motor-Beater 1-1/2 hp 208-230-3-60
5	155449	Valve-Automatic Expansion (Hopper)
6	111780	Coupling-Drive
7	153354	Gear Reducer-RH 5/1 (B side)
8	153353	Gear Reducer-LH 5/1 (A side)
9	153626	Pulley-7/8 Bore 3.25 OD 3.00 PD - Driver
10	153160	Belt-V (Pulley A Side)
	153322	Key-Drive 3/16 sq x 1½
11	153621	Pulley-5/8 Bore 5.50 OD 5.20 PD - Driven
12	155059	Glass-Sight
13	155054	Filter-Drier
14	155057	Receiver
15	151098	Fan-Axial (Air Cooled)
16	155115-C	Condenser-Air 2 hp 3 fans
17	151080	Motor-Fan (Air Cooled)
18	159018	Blade-Fan (Air Cooled)
19	155410	Valve-Water
	155444	Kit-Water Valve Repair
20	155039	Condenser-Water
21	117018	Compressor-Assy. (3 ph) AHA2490ZXF
	or	
	118235	Compressor-Assy. (3 ph) AVA2490ZXT
21A	116973	Compressor-Assy. (1 ph) AHA2490ZXD
	151356	Box-Assy. Capacitor & Relay
	150361	Capacitor-Start
	150362	Capacitor-Run
	150363	Relay-Start
	or	
	118234	Compressor-Assy. (1 ph) AVA2490ZNX
	151362	Box-Assy. Capacitor & Relay
	150398	Capacitor-Start
	150399	Capacitor-Run
	150401	Relay-Start/Run
21B	118257	Valve-Assy. Rotalock (AH compressors only)
22	155442	Thermostat-Night
23	153167	Belt-V (Pulley B Side)
24	155442	Thermostat-Day
25	115467	Cylinder Assembly - Complete
26	155425	Cut Out-High Pressure
27	155403	Cut Out-Low Pressure
28	151094	Fan-Axial (Water Cooled)
	155409	Valve-Check (not shown)

Figure 8 Rear View 66TF



M00137

Figure 8 Rear View 66TF

Item	Part No.	Description	Item	Part No.	Description
1	161210	Thermostat-Hopper 1.5° Diff.	18	159017	Blade-Fan (Air Cooled)
2	155421	Valve-Solenoid	19	155410	Valve-Water
	155434	Kit-Solenoid Valve Repair		155444	Kit-Water Valve
3	155449	Valve-Automatic Expansion (Hopper)	20	155039	Condenser-Water
				155026	Condenser-Water
4	118142	Kit-Motor & Capacitors (Beater) 1-1/2 hp 208-230-1-60 150235 Relay-Start 150236 Relay-Run	21	151356	Box-Assy. Capacitor & Relay (1 Phase AH Compressors) 150361 Capacitor-Start 150362 Capacitor-Run 150363 Relay-Start
	150877	Switch-Centrifugal		or	
4A	151088	Motor-Beater 1.5 hp 208/230-3-60		151362	Box-Assy. Capacitor & Relay (1 Phase AV Compressors) 150398 Capacitor-Start 150399 Capacitor-Run 150401 Relay-Start/Run
5	155448	Valve-Automatic Expansion (Cylinder)			
6	111780	Coupling-Drive	22	155442	Thermostat-Night
7	153354	Reducer-Gear RH 5/1 (B side)	23	155442	Thermostat-Day
8	153353	Reducer-Gear LH 5/1 (A side)	24	153167	Belt-V (Pulley B side)
9	153160	Belt-V (Pulley A side)	25	115467	Cylinder Assembly-Complete
10	153621	Pulley-5/8 Bore 5.50 OD 5.20 PD - Driven	26	155425	Cut Out-High Pressure
11	153626	Pulley-7/8 Bore 3.25 OD 3.00 PD - Driver	27	155403	Cut Out-Low Pressure
	153322	Key-Drive			
12	155059	Glass-Sight			
13	155054	Filter-Drier			
14	155123-C	Condenser-Air LH & RH			
15	117018	Compressor-Assy. (3 ph) AHA2490ZXF			
	or				
	118235	Compressor-Assy. (3 ph) AVA2490ZXT			
15A	116973*	Compressor-Assy. (1 ph) AHA2490ZXD			
	or				
	118234*	Compressor-Assy. (1 ph) AVA2490ZXN			
15B	118257	Valve-Assy. Rotalock RH (AH compressors only)			
15C	118258	Valve-Assy. Rotalock LH (AH compressors only)			
16	155057	Receiver			
17	151080	Motor-Fan (Air Cooled)			

* Includes Item #21 components: start capacitor, run capacitor and relay.

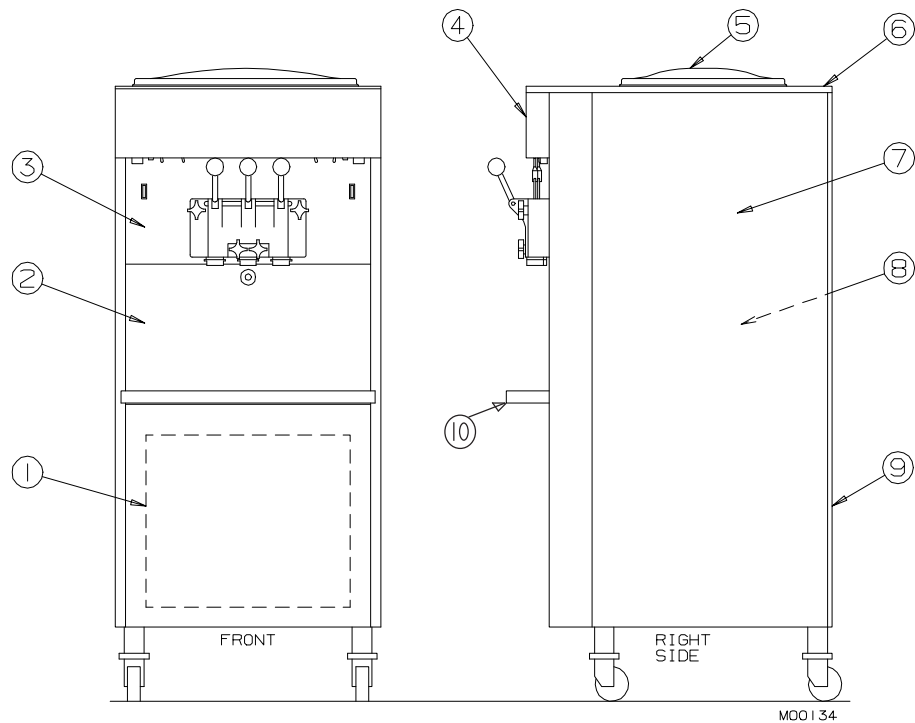


Figure 9 Panel View 56TF, 66TF

Item	Part No.	Description
1	136934-C	Panel-Front Louvered
2	114332-C	Panel-Assy Front
3	137589	Panel-Dispense
4	115292	Trimstrip Assy.-EF Decal 26 in.
	164020	Label-Trimstrip LH
	164021	Label-Trimstrip RH
5	196111	Cover-Hopper
6	114831	Panel Assy.-Hopper and Top
7	132276-C	Panel-Side RH
	165126	Decal-Panel Removal
8	132276-C	Panel-Side LH
9	138700	Panel-Rear (A/C) 56TF
	137777	Panel-Rear (W/C) 56TF
	117464	Panel-Assy. Rear (A/C) 66TF
	137057	Panel-Rear (W/C) 66TF
10	196108	Tray-Drip 26 in Black
	115132	Insert-Assy. Drip Tray

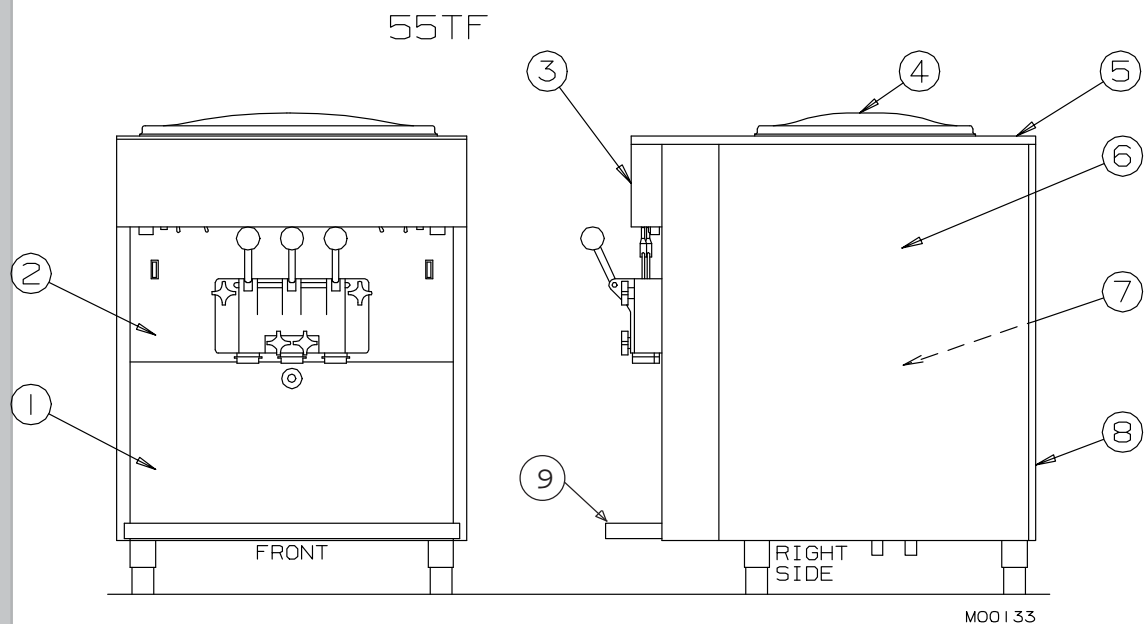


Figure 10 Panel View 55TF

Item	Part No.	Description
1	115005	Panel Assy-Front
2	137589	Panel-Dispense
3	115292	Trimstrip Assy EF Decal 26 in.
	164020	Label-Trimstrip LH
	164021	Label-Trimstrip RH
4	196111	Cover-Hopper
5	114831	Panel Assy-Hopper and Top
6	138692	Panel-Side LH
7	138693	Panel-Side RH A/C
	137223	Panel-Side RH W/C
8	137191	Panel-Rear
9	196108	Tray-Drip 26 in Black
	115132	Insert-Assy. Drip Tray

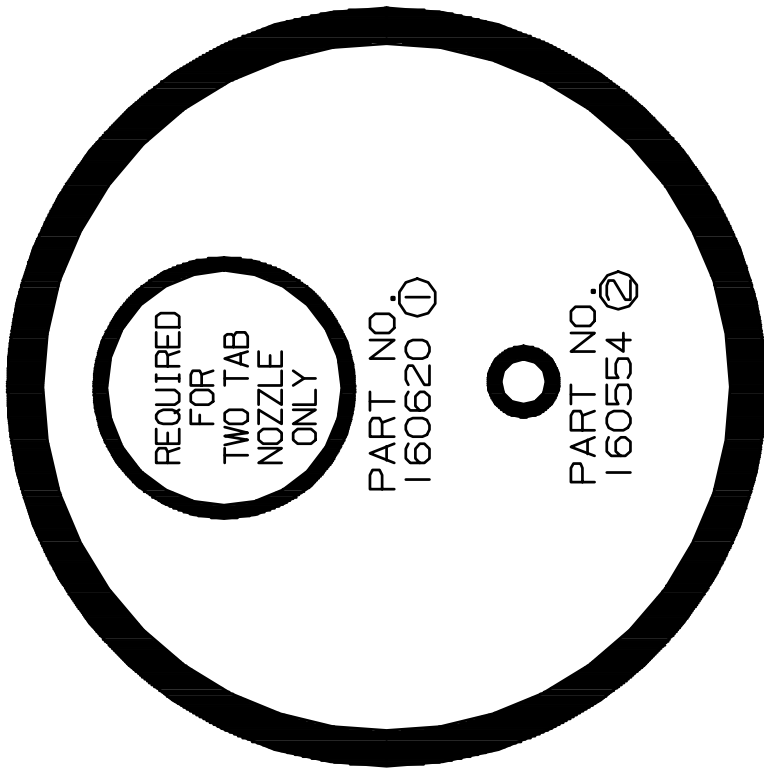
Accessories

Part No.	Description
196103	Bottle-Wash 500 ml
158004	Brush-4 in. w/ 36 in. handle
158009	Brush-4 in. w/o handle
158003	Brush-7/16 & 1-1/8 Double End
158077	Brush-9/16 in w/36 in. handle
162105	Caster-1-1/4 ST w/brake
162106	Caster-1-1/4 ST w/o brake
196111	Cover-Hopper
115536	Kit-O-ring
158000A	Lubricant-Petrol Gel (per tube)
112978	Leg-Assy. six inch
134969	Leg-Six inch
112158	Leg-Assy four inch
135319	Leg-Four inch
196185	Nozzle-Serrated
165507	Permagum
158013	Sanitizer-Stera Sheen (sample)
158014	Sanitizer-Stera Sheen (per case)
158014A	Sanitizer-Stera Sheen (per jar)
158049	Scale-Overrun
162503	Sealant-Aluminum Silastic 5 oz.
169374	Tool-O-ring Removal
196108	Tray-Drip 26 in. Black

184233

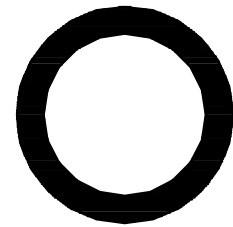
REV. A

GRAVITY SOFT SERVE DISPENSING HEAD

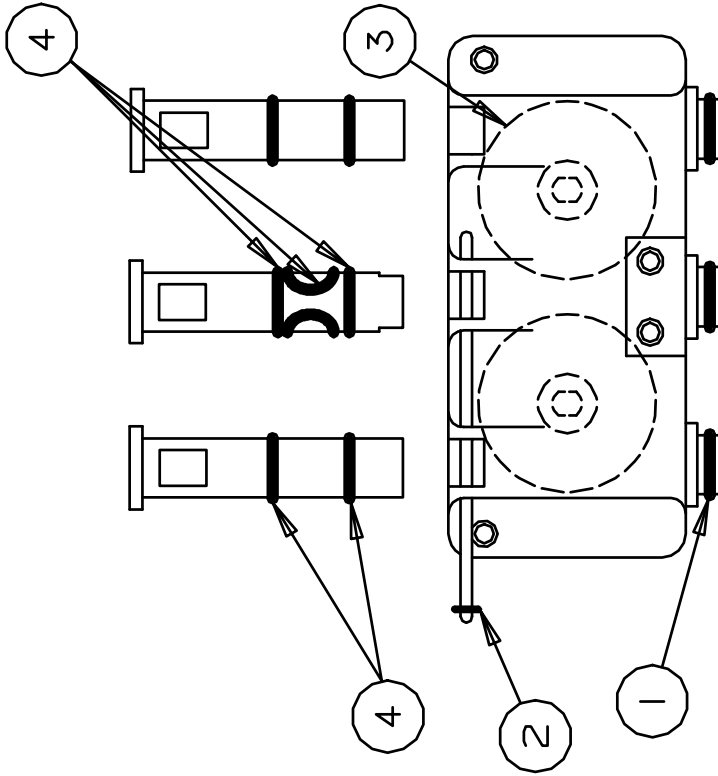


PART NO. 160554 ②

PART NO. 159309 ③



PART NO. 160501 ④



O-RING CHART

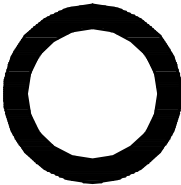
PH. NO. 309-755-4553

H.C. DUKE & SON, INC.

184233

MIX FEED REGULATOR

REV A



PART NO.
160503 ①



O-RING CHART

PH. NO. 309-755-4553

H.C. DUKE & SON, INC.