

ELECTRO FREEZE®

Replacement Parts Manual with Illustrations

FREEDOM 360°
Series

**SOFT SERVE Models
15N-CMT-W and 44N-CMT-W**

P/N 184900-01 8/03

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. The Alphabetized Parts List can be used to verify part numbers pertaining to the serial number of your unit.

Place your parts order through your local authorized Electro Freeze Distributor.

Name: _____

Address: _____

Phone: _____

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



Phone: (309) 755-4553

Fax: (309) 755-9858

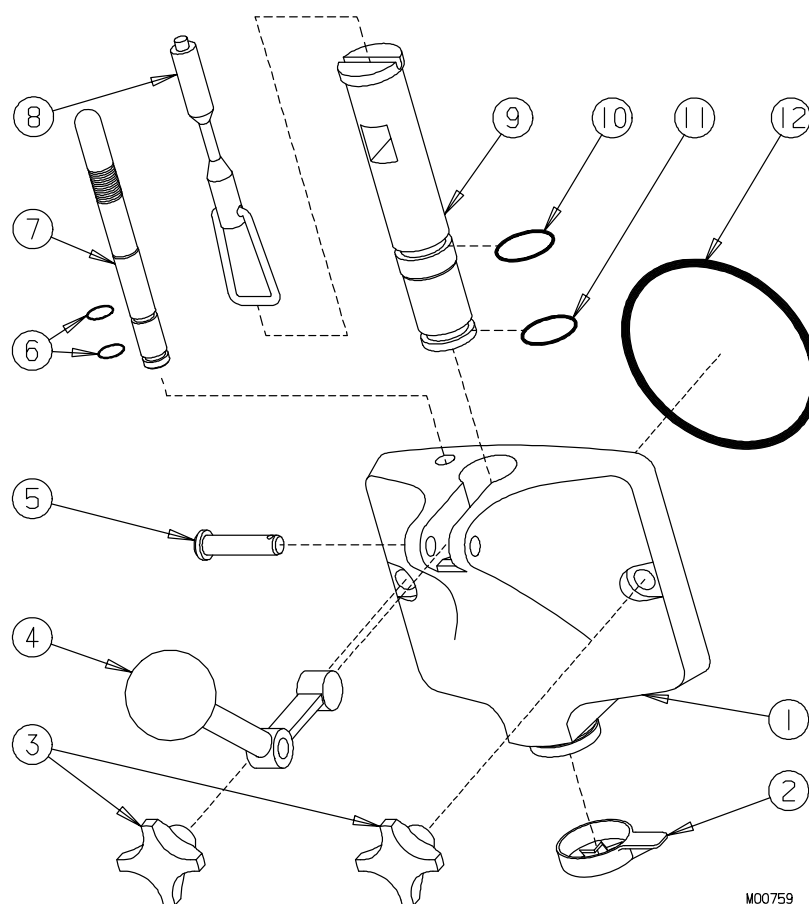
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M00759

Figure 1 Head Assembly

Item	Part No.	Description
*	118902	Head-Assy. Complete
1	118566	Head-Assy. w/Actuator (Head only)
2	196185	Nozzle-Serrated
3	136798	Knob-Hand
4	110007	Handle-Assy.Dispense includes: 162629 Knob-Ball 3/8-16 THD Black
5	160268	Pin-Handle
6	160610	O-Ring (Plug)
7	138149	Plug-Air Bleed
8	113426	Push Rod-Assy. Plunger Switch
9	139581	Plunger-Dispense Self Close
10	160501	O-Ring (Plunger-Upper)
11	160582	O-Ring (Plunger-Lower)
12	159309	O-Ring (Head)

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

Not Shown:

114341	Stud-Assy. Cylinder 1- ¹⁵ / ₁₆ inch
116410	Kit-Dispense Head Switch

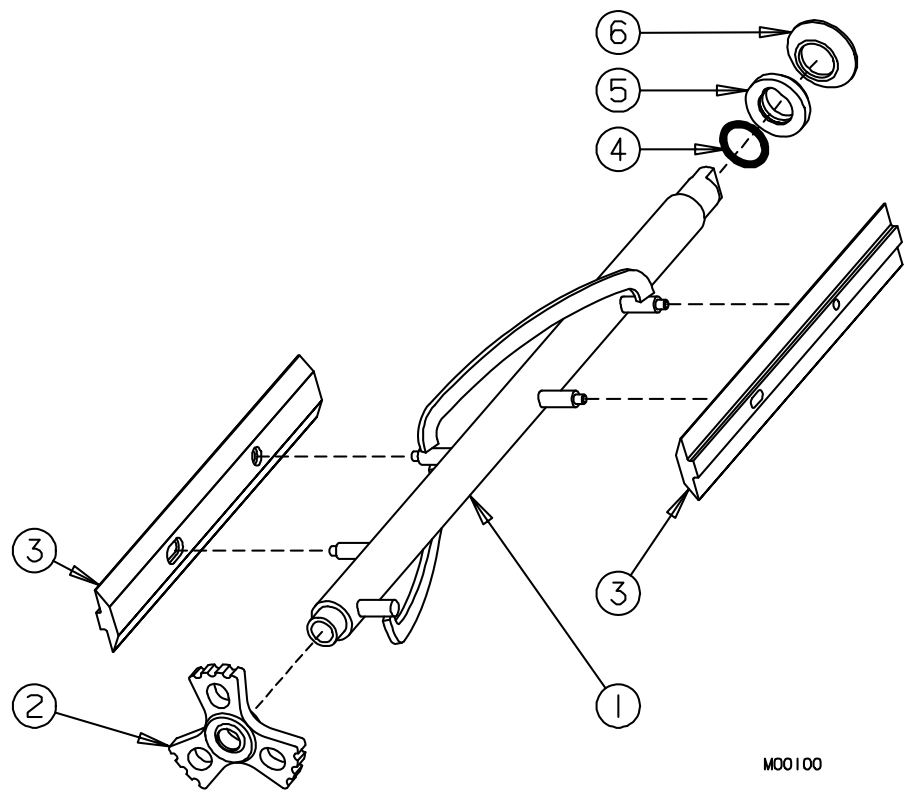


Figure 2 Beater Shaft Assembly

Item	Part No.	Description
1	113467	Shaft-Assy. Beater (44N-CMT-W)
	113438	Shaft-Assy. Beater (15N-CMT-W)
2	196085	Bushing-Cylinder
3	134966	Blade-Scraper (44N-CMT-W)
	137334	Blade-Scraper (15N-CMT-W)
4*	160500	O-Ring-Seal
5*	133098	Washer-Shaft Seal
6*	160557	Seal-Beater Shaft

* Items 4,5,6 can be ordered together as:
 111875 Seal-Assy. Shaft

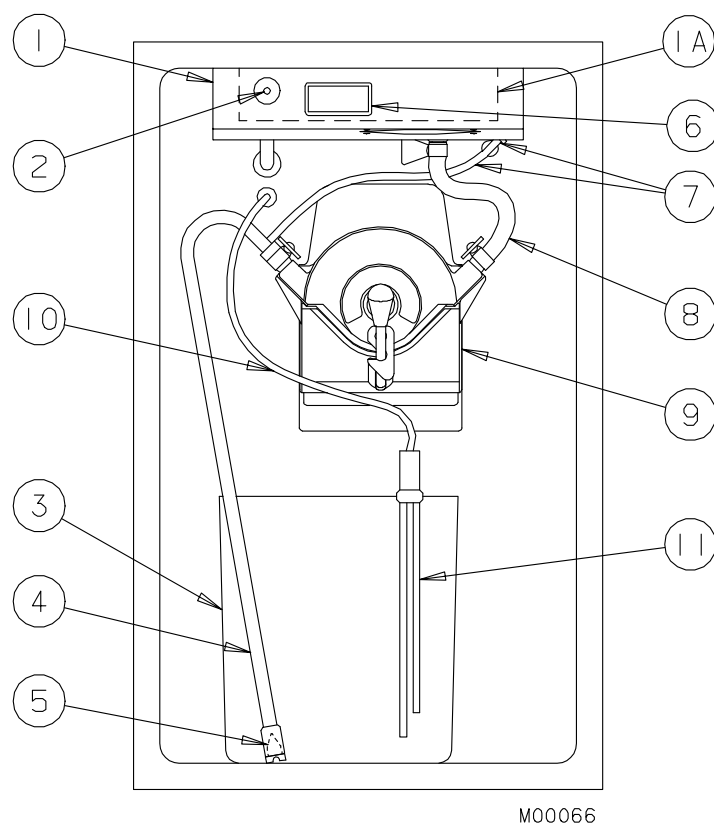


Figure 3 Cabinet Parts

Item	Part No.	Description	Item	Part No.	Description
1	116516-01	Shroud-Assy. Evaporator includes:	6	161004	Thermometer-Barrel (Cabinet)
	150532	Cord-Assy. Male Plug	7	138170	Tube-Air
	151105	Fan-Intake 230v	7A		Meter-Air (Order by Meter Number)
	151076	Guard-Fan Open	8	116094	Hose-Assy. Mix Braided
	150509	Switch-Door Push Button	8A	138184	Hose-Transfer Black
1A	155111	Coil-Cabinet Evaporator	8B	116065	Clamp-Assy. Soft Hose 5/8
1A	150533	Cord-Assy. Female Plug (not shown)	9		MTS (see figure 5)
2	150509	Switch-Door Push Button	10	150537	Cordset-Mix Level Probe
3	196222	Tank-Mix 7 Gallon 13-1/4" High	10A	150536	Receptacle-Molded Level Sensor
3A	113997	Cover-Assy. Mix Tank Front	11	115397	Probe-Assy. Mix Level 10-3/4"
3B	138165	Cover-Rear Mix		137120	Base-Probe Mounting
3C	199033	Boot-Mix Tube			
4	116069	Tube-Assy. Pickup			
4A	116065	Clamp-Assy. Soft Hose 5/8			
5	199032	Duckbill-Inlet (Valve)			

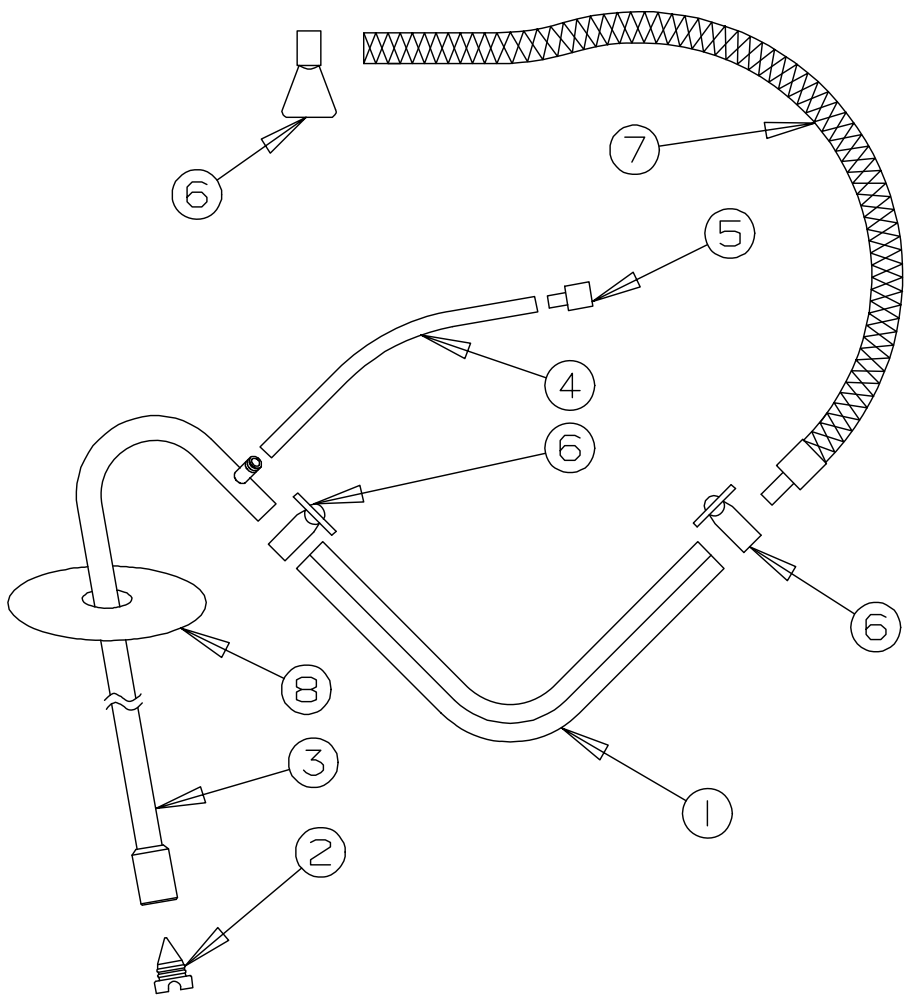


Figure 4 MTS Hose Assembly

Item	Part No.	Description
1	138184	Hose-Transfer Black Line
2	199032	Duckbill-Inlet (Valve)
3	116069	Tube-Assy.-Pickup
4	138170	Tube-Air (Hose)
5	**	Meter-Air
6	116065	Clamp-Assy. Soft Hose 5/8
7	116094	Hose-Assy Mix Braided
8	199033	Boot-Mix Tube (Seal)

** Order by meter number

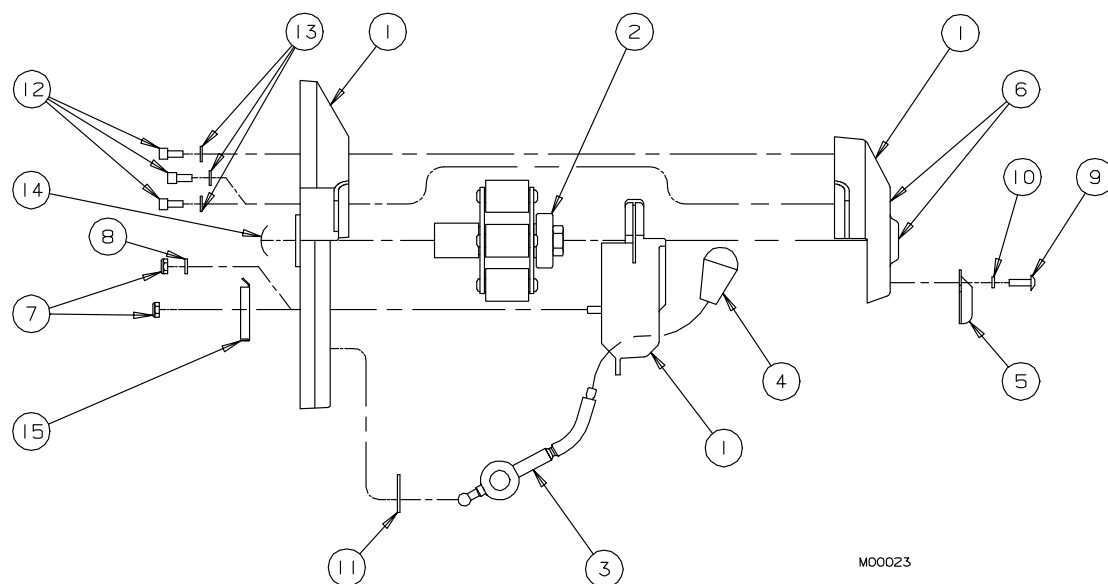


Figure 5 Mix Transfer System (MTS)

Item	Part No.	Description
*	116012	MTS-Assy. Housing (Complete)
1	117054	MTS-Assy. Housing-w/o roller
2	116009-01	Kit-Roller (Complete)
3	116164	Handle-Assy. Round (MTS)
4	162627	Knob-Oval Taper (Handle-MTS)
5	**	Hook-Swing (Lock-MTS)
6	165018	Decal-Mix Transfer
7	159421	Nut-EL Stop #10-32
8	160157	Washer-1/2 x .196 x 1/16
9	160026	Screw-TRPM #10-32 x 5/8 SST (Swing Lock)
10	160158	Washer-Flat .190 x .365 x .075
11	138142	Plate-Pivot Cover
12	160307	Screw-SKHC #10-32 x 7/16 SST
13	159962	Washer-Flat #10 SST
14	160145	Washer-Curved Spring
15	117125	Actuator-Assy. Slide

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

**Order by freezer serial number

Not Shown:

151129	Gearmotor-MTS
138369	Bushing-Alignment
116312	Gauge-Assy. Pressure Test
116411	Kit-MTS Slide Switch
159219	Screw-TRPM 1/4-20x1 SST (MTS-Mounting)

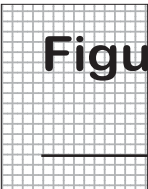
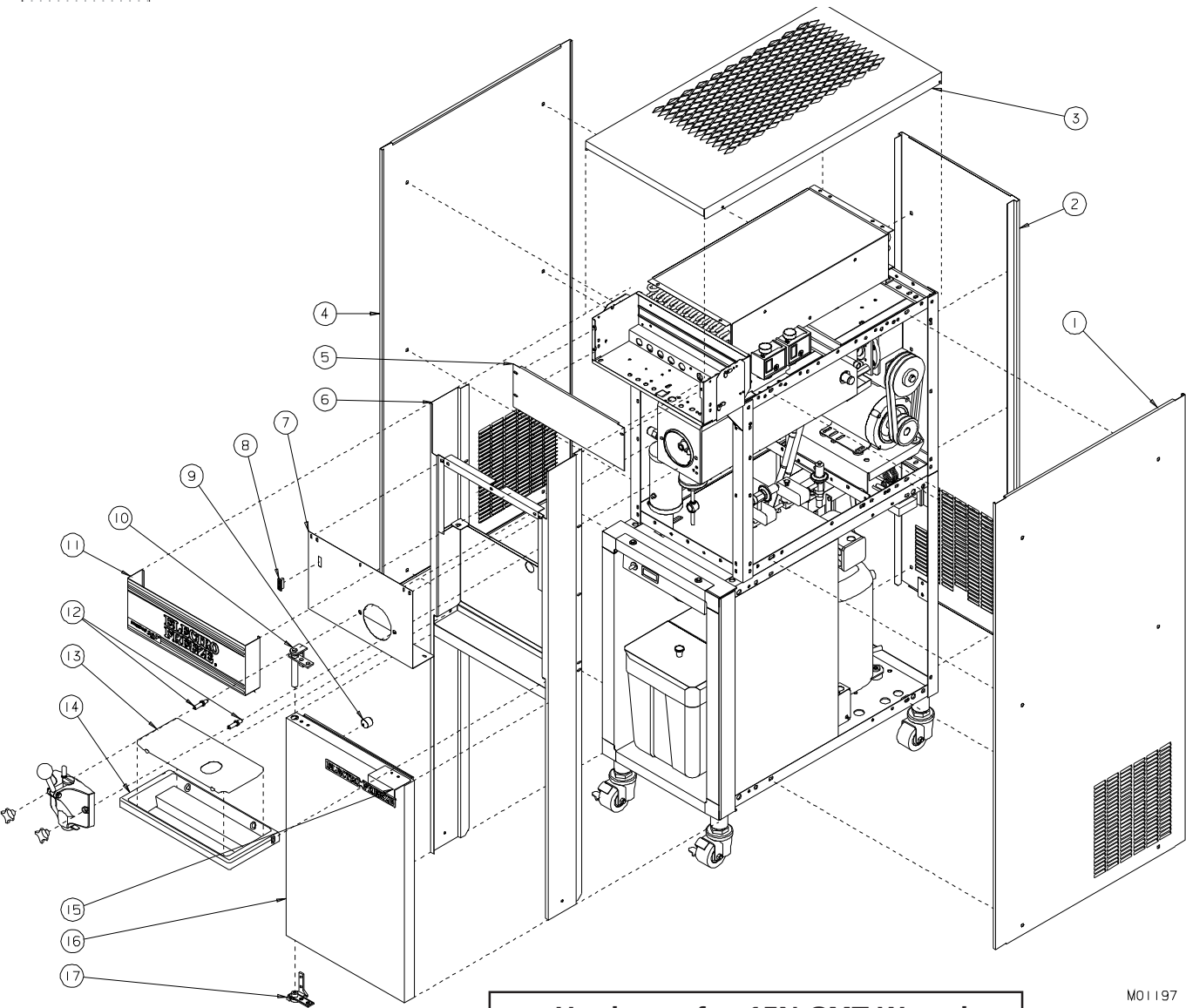
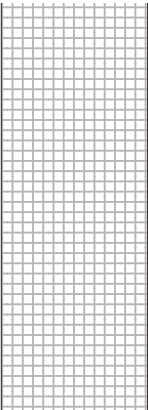


Figure 6 Panels — Air Cooled
15N-CMT-W and 44N-CMT-W (sheet 1 of 2)



M01197



Hardware for 15N-CMT-W and 44N-CMT-W Panels				
Panel	Screw	Nut-Speed	Spacer	Nut-Speed on Frame
Dispense	160076	159132	n/a	n/a
Front	160076	159132	n/a	159067
Rear	160048	160114	138456	n/a
Side	159219	160114	138546	n/a
Top	160305	n/a	n/a	n/a
Trimstrip	160076	n/a	n/a	n/a
n/a - Not Applicable				

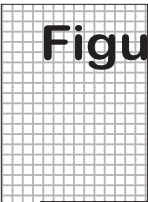
Figure 6 Panels — Air Cooled

15N-CMT-W and 44N-CMT-W (sheet 2 of 2)

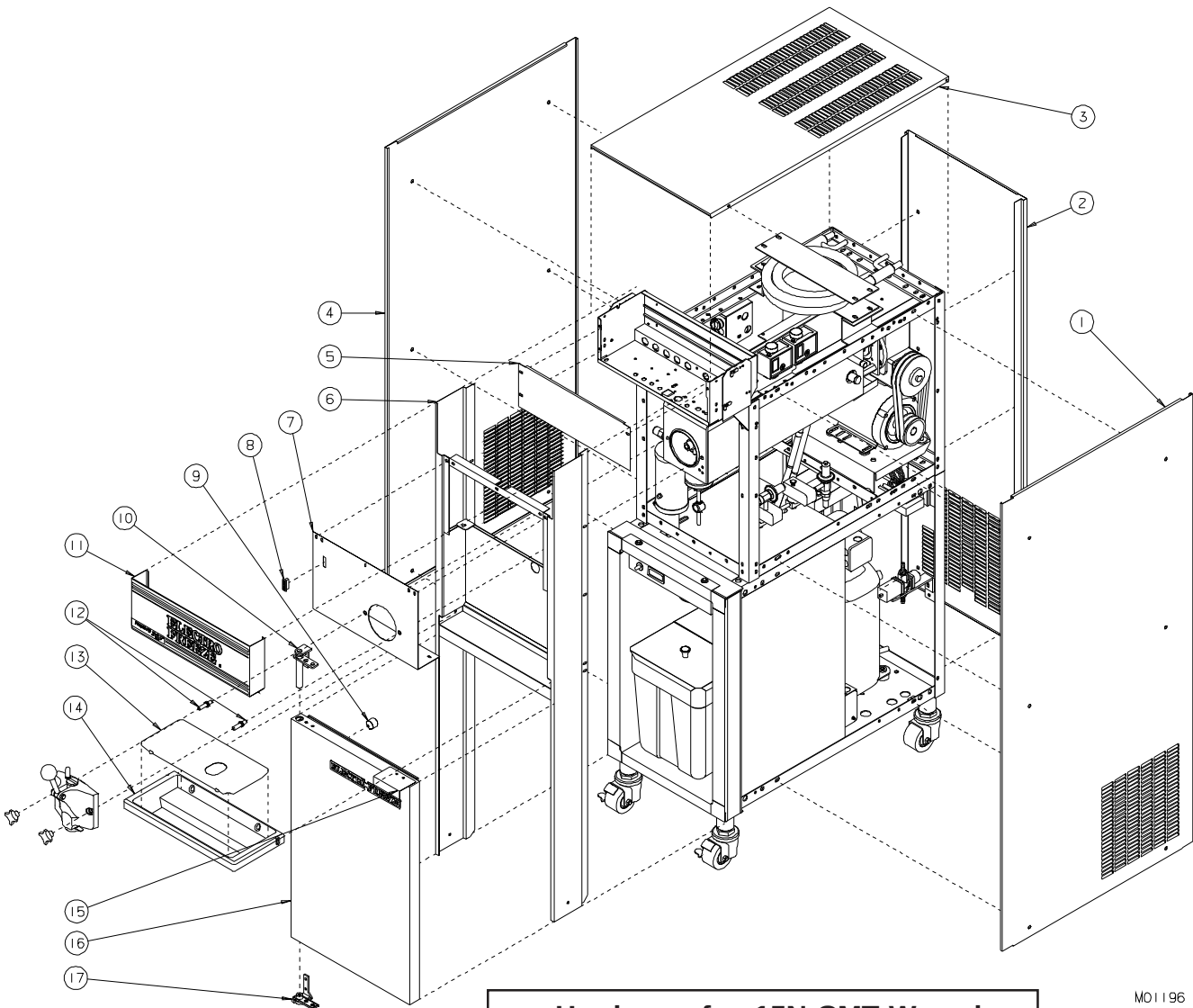
Item	Part No.	Description
1	137028-C	Panel-Side RH (15N-CMT-W)
	137544-C	Panel-Side RH (44N-CMT-W)
2	140024-C	Panel-Rear
3	116509-C	Panel-Assy. Top (15N-CMT-W)
	116499-C	Panel-Assy. Top (44N-CMT-W)
4	137027-C	Panel-Side LH (15N-CMT-W)
	137543-C	Panel-Side LH (44N-CMT-W)
5	116508	Cover-Electric Box
6	116482	Panel-Assy. Front includes: 159175 Catch-Bullet (Drip Tray) 160289 Nut-Push Round
7	138454	Panel-Dispense
8	150540	Light-Indicator 230v
9	118597	Actuator-Assy. Door Switch
10	162045	Hinge-Pivot 1-3/8 Top LH includes 162052 Spring-LH
11	116513	Trimstrip-Assy. EF Decal 18 in. 165188-04 Decal-Trimstrip EF Logo
11A	117900	Trimstrip-Assy. Sonic 18 in. 165175 Decal-Trimstrip Sonic Logo
12	114341	Stud-Assy. Cylinder 1-15/16"
13	116540	Insert-Assy. Drip Tray includes: 199030 Bumper-Rubber
14	196107-02	Tray-Drip 18" Black
15	136199	Pull-Door
16	114260-06-C	Door-Assy. Complete includes: 160563-02 Gasket-Door 136199 Pull-Door (Handle)
17	162046	Hinge-Pivot 1-3/8 Bottom RH

LH - Left Hand
RH - Right Hand

Decals	
Part No.	Description
165119	6" Air Flow
165025	Beater Warning
164113	Cleaning Instructions
165093	Clear Overlay
164027	CMT Connection
165013	CMT Patent
164124	MTS Trimstrip
164004-01	Operating Instructions
165126	Panel Removal
165124	Top Air Discharge
165246	Warning Pressurized



**Figure 7 Panels — Water Cooled and
Air Cooled Remote
15N-CMT-W and 44N-CMT-W (sheet 1 of 2)**



M01196

Hardware for 15N-CMT-W and 44N-CMT-W Panels				
Panel	Screw	Nut-Speed	Spacer	Nut-Speed on Frame
Dispense	160076	159132	n/a	n/a
Front	160076	159132	n/a	159067
Rear	160048	160114	138456	n/a
Side	159219	160114	138546	n/a
Top	160305	n/a	n/a	n/a
Trimstrip	160076	n/a	n/a	n/a
n/a - Not Applicable				

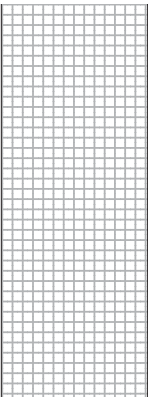


Figure 7 Panels — Water Cooled and Air Cooled Remote

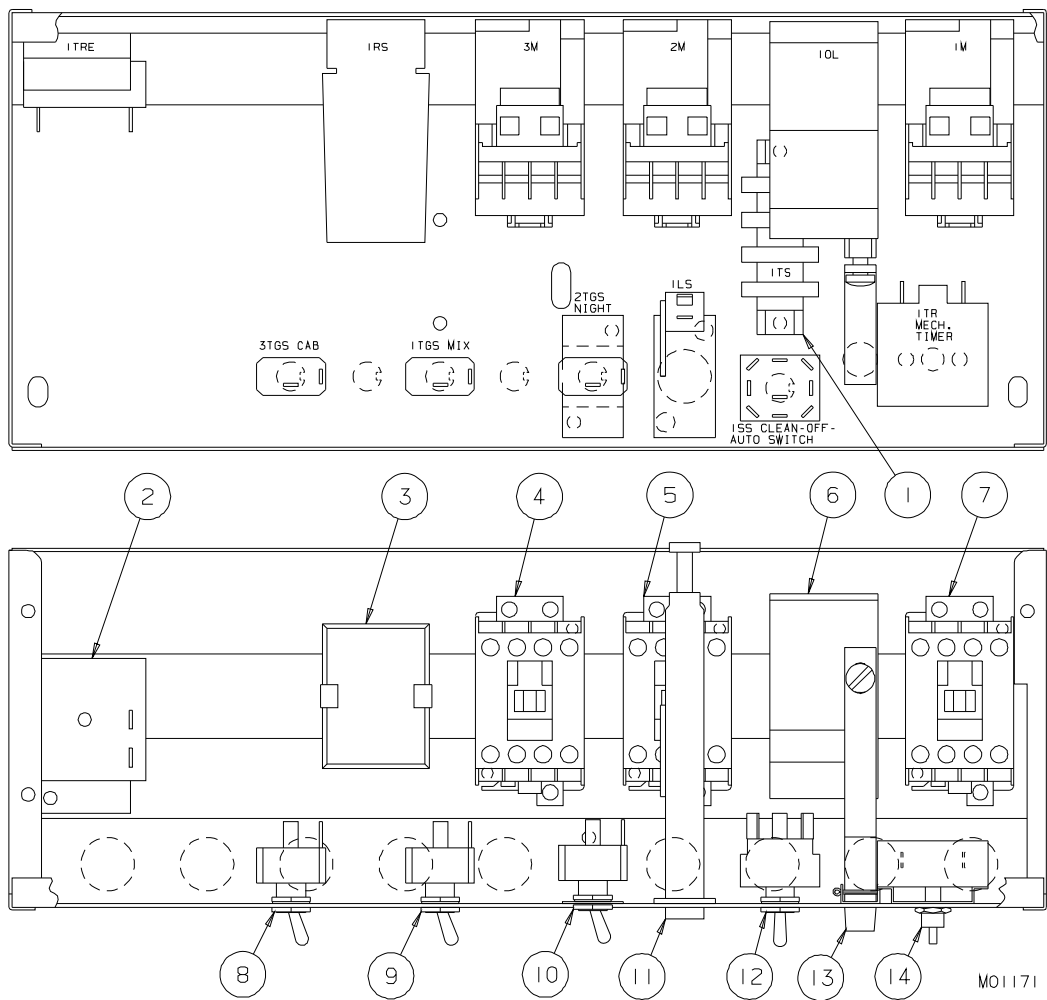
15N-CMT-W and 44N-CMT-W (sheet 2 of 2)

Item	Part No.	Description
1	137028-C	Panel-Side RH (15N-CMT-W)
	137544-C	Panel-Side RH (44N-CMT-W)
2	140024-C	Panel-Rear (15N-CMT-W - W/C)
	138541-C	Panel-Rear (44N-CMT-W - W/C)
	139134	Panel-Upper Rear (ACR)
	139135	Panel-Lower Rear (ACR)
3	116514-C	Panel-Assy. Top (15N-CMT-W)
	116515-C	Panel-Assy. Top (44N-CMT-W)
4	137027-C	Panel-Side LH (15N-CMT-W)
	137543-C	Panel-Side LH (44N-CMT-W)
5	116508	Cover-Electric Box
6	116482	Panel-Assy. Front includes: 159175 Catch-Bullet (Drip Tray) 160289 Nut-Push Round
7	138454	Panel-Dispense
8	150540	Light-Indicator 230v
9	118597	Actuator-Assy. Door Switch
10	162045	Hinge-Pivot 1-3/8 Top LH includes 162052 Spring-LH
11	116513	Trimstrip-Assy. EF Decal 18 in. 165188-04 Decal-Trimstrip EF Logo
11A	117900	Trimstrip-Assy. Sonic 18 in. 165175 Decal-Trimstrip Sonic Logo
12	114341	Stud-Assy. Cylinder 1-15/16"
13	116540	Insert-Assy. Drip Tray includes: 199030 Bumper-Rubber
14	196107-02	Tray-Drip 18" Black
15	136199	Pull-Door
16	114260-06-C	Door-Assy. Complete includes: 160563-02 Gasket-Door 136199 Pull-Door (Handle)
17	162046	Hinge-Pivot 1-3/8 Bottom RH

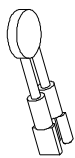
W/C - Water Cooled
ACR - Air Cooled Remote
LH - Left Hand
RH - Right Hand

Decals	
Part No.	Description
165025	Beater Warning
164113	Cleaning Instructions
165093	Clear Overlay
164027	CMT Connection
165013	CMT Patent
164124	MTS Trimstrip
164004-01	Operating Instructions
165126	Panel Removal
169048	Ventilation - ACR
165246	Warning Pressurized

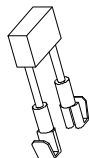
Figure 8 Switch Box — 15N-CMT-W and 44N-CMT-W



**Detailed Drawings of Filter and
MOV Assemblies**



Item #1A
MOV-Assy.
116188

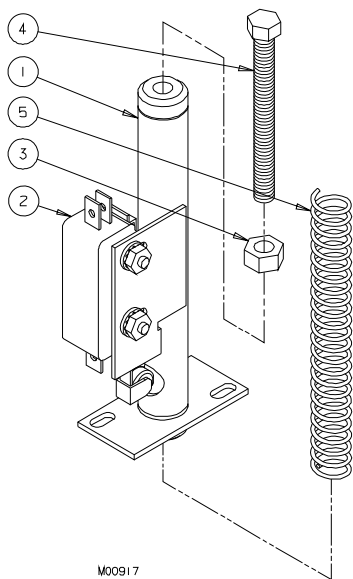


Item #12A
Filter-Assy.
116125

Figure 8 Switch Box — 15N-CMT-W and 44N-CMT-W

Item	Part No.	Description
1	150795	Strip-Terminal
1A	116188	MOV-Assy. (See Detailed Drawing)
2	150208	Timer-12 Second Delay on Break
3	150202	Indicator-Mix Level
3A	150119	Socket-Octal Terminal
3B	150120	Clip-Retainer (Set of 2)
3C	150540	Light-Indicator
4	150135	Contactor (Beater Motor)
4A	150134	Coil-Replacement
5	150135	Contactor (Compressor)
5A	150134	Coil-Replacement
6	118361	Relay-Assy. Overload 3PH 3.7-12A (3 phase) includes:
		150145 Adaptor-Overload DIN Rail
		150150 Button-Overload Reset
		150142 Relay-SS Overload 3ph 3.7-12A
	118359	Relay-Assy. Overload 1PH 5-15A (1 phase) includes:
		150145 Adaptor-Overload DIN Rail
		150150 Button-Overload Reset
		150140 Relay-SS Overload 1ph 5-15A
7	150135	Contactor (Cabinet)
7A	150134	Coil-Replacement
8	159235	Switch-Toggle SPST (Cabinet)
9	159235	Switch-Toggle SPST (Mix Transfer System)
10	159235	Switch-Toggle SPST (Day/Night)
11	114176-01	Switch-Assy. Self-Closing Plunger (See Figure 8)
12	150465	Switch-Toggle 3PDT (Selector)
12A	116125	Filter-Assy.(See Detailed Drawing)
13	118390	Lever-Assy. Reset includes:
		159036 Button-Reset
14	150218	Timer-5 Minute Mechanical
14A	162604	Knob-Timer

Figure 9 Switch Assembly



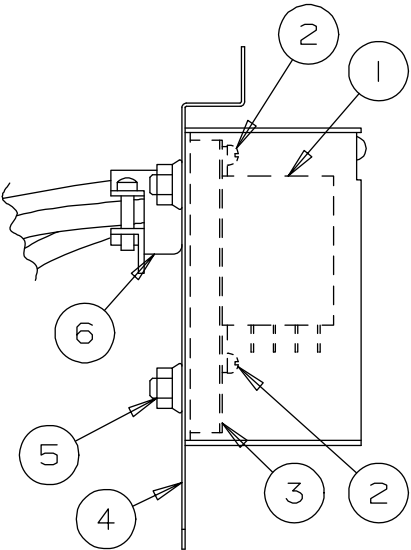
Item	Part No.	Description
*	114176-01	Switch-Assy. Self Closing Plunger
1	114174	Guide-Assy. Push Rod
2	150477	Switch-Roller Actuator SPDT
3	160104	Nut-HEX 1/4-20 ZN (Adjusting Bolt)
4	159965	Screw-HXHM 1/4-20 x 2-1/2" ZN (Adjusting)
5	162323	Spring-Compression MW ZN

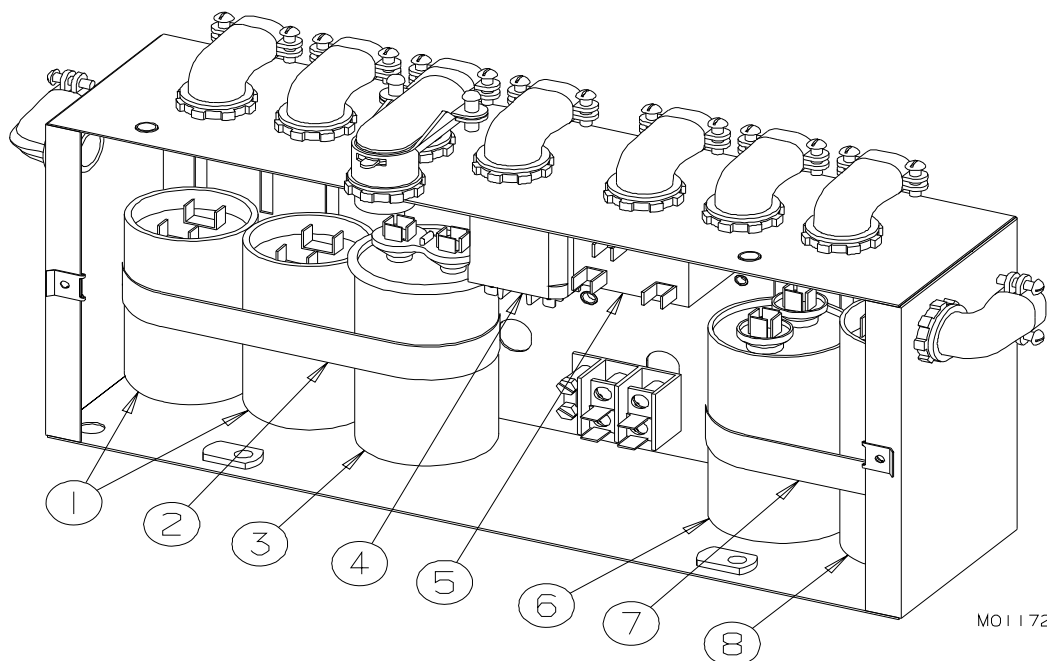
* Includes all items above.

Figure 10 Relay Box — MTS
44N-CMT 3 Phase, 15N-CMT-W 1 & 3 Phase

Item	Part No.	Description
*	119216	Box-Assy. Relay
1	150381	Relay-Flange Base w/Cover
2	160308	Screw-RDHM #6-32 x 5/16 ZN
2A	160116	Nut-Speed #6-32 BKOX
3	138159	Bracket-Flange Relay Mtg.
4	138248	Support-MTS
5	159950	Screw-HXSF 1/4-20 x 1/2 ZN
5A	159951	Nut-HXSF 1/4-20 ZN
6	150828	Connector 1/2

* Includes all items above.



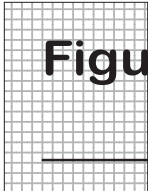


**Figure 11 Capacitor/Relay Box
44N-CMT-W 1 Phase**

Item	Part No.	Description
1	150872	Capacitor-Start (Motor)
2	160739	Clamp-Hose 3-9/16 - 4-1/2
3	150318	Capacitor-Motor Run
4	150381	Relay-Flange Base w/Cover
5	150406	Relay-Start/Run (Compressor)
6	150403	Capacitor-Run (Compressor)
7	160743	Clamp-Hose 3-1/16 - 4
8	150398	Capacitor-Start (Compressor)

This exploded view diagram illustrates the assembly of a mobile air conditioning unit. The components are numbered as follows:

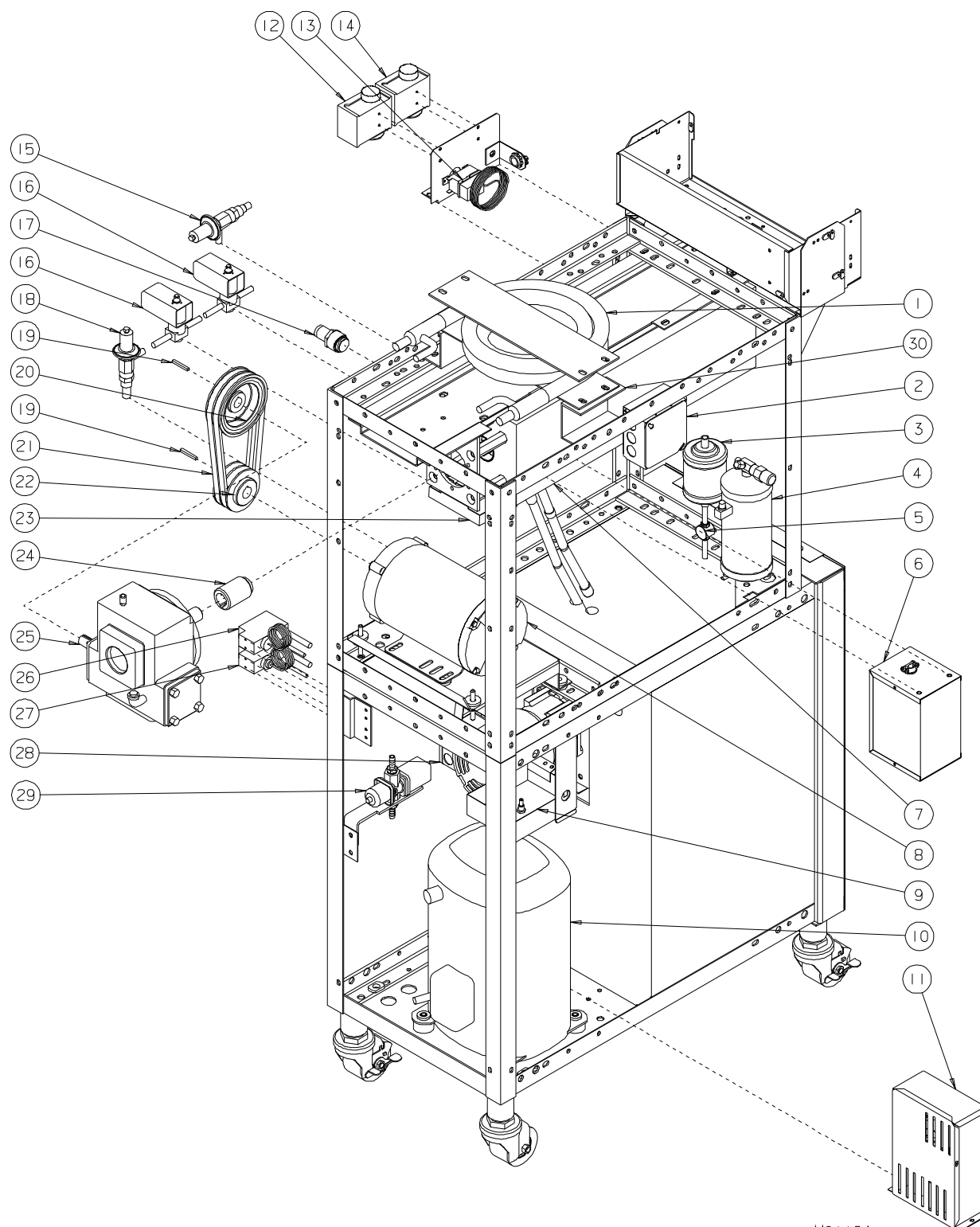
- 1**: Main top housing or control panel.
- 2**: Internal structural frame or support.
- 3**: Compressor unit.
- 4**: Condenser coil assembly.
- 5**: Evaporator coil assembly.
- 6**: Small auxiliary control box.
- 7**: Side panel or door.
- 8**: Internal ducting or piping.
- 9**: Rear panel or base.
- 10**: Casters or wheels for mobility.
- 11**: External condenser fan or coil assembly.
- 12**: Electrical control switch or relay.
- 13**: Electrical wiring or connector.
- 14**: Electrical control switch or relay.
- 15**: Small electrical component or sensor.
- 16**: Small electrical component or sensor.
- 17**: Small electrical component or sensor.
- 18**: Small electrical component or sensor.
- 19**: Small electrical component or sensor.
- 20**: Small electrical component or sensor.
- 21**: Small electrical component or sensor.
- 22**: Small electrical component or sensor.
- 23**: Small electrical component or sensor.
- 24**: Small electrical component or sensor.
- 25**: Small electrical component or sensor.
- 26**: Small electrical component or sensor.
- 27**: Small electrical component or sensor.
- 28**: Small electrical component or sensor.
- 29**: Small electrical component or sensor.
- 30**: Small electrical component or sensor.



**Figure 12 15N-CMT-W Air Cooled
Side/Back View (Sheet 1 of 2)**

Item	Part No.	Description	Item	Part No.	Description
1	155120-C	Condenser-Air	16	155421	Valve-Solenoid 208-240v
1A	116494	Bracket-Assy. Front Air Condenser	16A	155434	Kit-Solenoid Valve
1B	138465	Shroud-Fan	17	117014	Kit-Pressure Switch Field Replacement includes 116105 Nut-Assy. Pressure Switch
2*	119216	Box-Assy. Relay (See Figure 7)	18	155449	Valve-Automatic Expansion (Cabinet)
3	155054	Drier-Filter 16 cu. in.	18A	165531	Insulator-Expansion Valve
4	155057	Receiver-3 lb. 3/8 ID Sweat	19	153322	Key-Drive 3/16 Sq x 1-1/2
5	155059	Glass-Sight	20	153625	Sheave-3/4 Bore 4.75 OD (Driven Pulley)
6	113442	Box-Assy Capacitors & Components (1 Phase) (Beater Motor)	20A	160495	Screw-SK Set 1/4-20x1/4
7	118600	Cylinder-Assy. Complete	21	153169	Belt-V
8	151052	Motor-2HP (3 Phase) (Beater Motor)	22	153626	Sheave-7/8 Bore 3.25 OD (Driver Pulley)
	118140	Kit-Motor & Capacitor 2HP 230V (1 Phase) includes motor and 150318 Capacitor-Run 150872 Capacitor-Motor Start	22A	160495	Screw-SK Set 1/4-20x1/4
8A	150877	Switch-Centrifugal	23	114374	Tube-Assy. Drain
9	116560	Pan-Assy. Condensate includes 196002 Tubing-3/16 ID x 5/16 OD PVC	24	111964	Coupling-Assy. 1 in. Drive
10	118686	Compressor-Assy. (3 Phase) includes Maneurop compressor and 155054 Drier-Filter	25	153356	Reducer-Gear RH 10/1 (See Figure 12)
	118685	Compressor-Assy (1 Phase) includes Maneurop compressor and 151447 Capacitor-Run 151448 Kit-Compr Start Cap & Relay	26	155425	Cut Out-High Pressure
		155054 Drier-Filter	27	155403	Cut Out-Low Pressure
10A	151446	Kit-Maneurop Compr. Mtg.	28	151129	GearMotor-1/8 HP (Pump)
10B	151397	Adaptor-3/8 ODF x 1" Rotalock	29	151077-01	Motor-Fan 50w 230v
10C	119326	Valve-Assy Rotalock RH MTZ includes valve and 165532 Insulator-Rotalock Valve 151399 Kit-Washer Rotalock MTZ	29A	140118	Bracket-Fan Mounting
11	118647	Box-Assy. Capacitor & Relay includes 151447 Capacitor-Run 151448 Kit-Compr Start Cap & Relay	30	159023	Blade-Fan 11" 36°
11A	117821	Cover-Assy. Capacitor & Relay Box	* Location may vary. Not Shown: 161216 Sensor-10K Thermistor 116410 Kit-Dispense Head Switch		
12	155442	Thermostat-Low (Day)			
13	118868	Thermostat-Assy. w/Cover (Ranco) (Cabinet)			
or	155483	Thermostat-Evap 41° Fixed w/OFF (Danfoss) (Cabinet)			
14	155442	Thermostat-Low (Night)			
15	155451	Valve-Automatic Expansion (Cylinder)			
15A	165531	Insulator-Expansion Valve			

**Figure 13 15N-CMT-W Water Cooled
Side/Back View (Sheet 1 of 2)**



MO1194

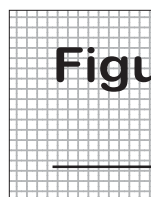


Figure 13 15N-CMT-W Water Cooled Side/Back View (Sheet 1 of 2)

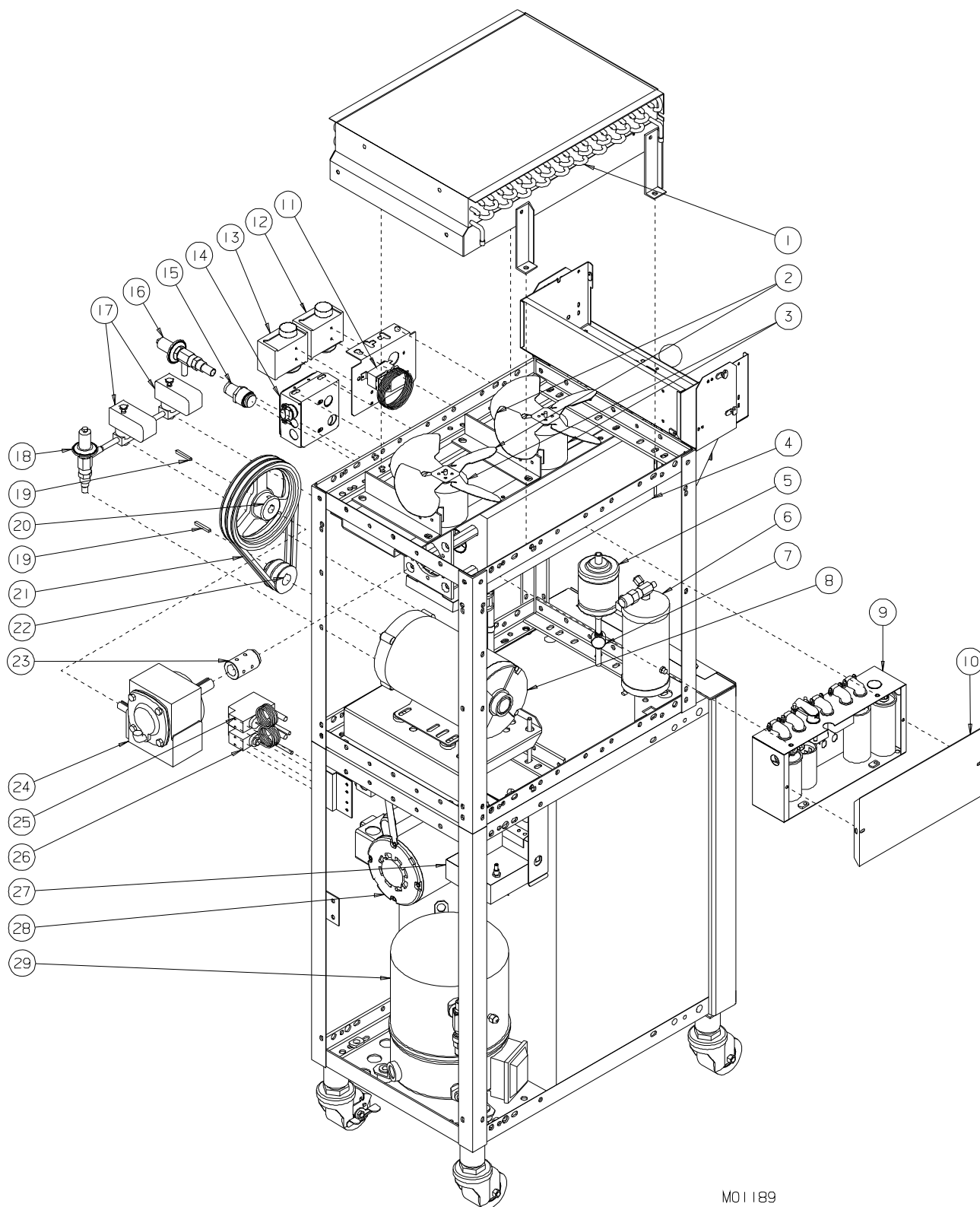
Item	Part No.	Description	Item	Part No.	Description
1	155029	Condenser-Water	17	117014	Kit-Pressure Switch Field Replacement includes switch
2*	119216	Box-Assy. Relay (See Figure 7)		116105	Nut-Assy. Pressure Switch
3	155054	Drier-Filter 16 cu. in.	18	155449	Valve-Automatic Expansion (Cabinet)
4	155057	Receiver-3 lb. 3/8 ID Sweat	18A	165531	Insulator-Expansion Valve
5	155059	Glass-Sight	19	153322	Key-Drive 3/16 Sq x 1-1/2
6	113442	Box-Assy Capacitors & Components (1 Phase) (Beater Motor)	20	153625	Sheave-3/4 Bore 4.75 OD (Driven Pulley)
7	118600	Cylinder-Assy. Complete	20A	160033	Screw-SK Set 5/16-18x3/8
8	151052	Motor-2HP (3 Phase) (Beater Motor)	21	153169	Belt-V
	118140	Kit-Motor & Capacitor 2HP 230V (1 phase) includes motor and	22	153626	Sheave-7/8 Bore 3.25 OD (Driver Pulley)
		150318 Capacitor-Run	22A	160495	Screw-SK Set 1/4-20x1/4
		150872 Capacitor-Motor Start	23	114374	Tube-Assy. Drain
8A	150877	Switch-Centrifugal	24	111964	Coupling-Assy. 1 in. Drive
9	116560	Pan-Assy. Condensate includes	25	153356	Reducer-Gear RH 10/1 (See Figure 12)
		196002 Tubing-3/16 ID x 5/16 OD PVC	26	155425	Cut Out-High Pressure
10	118686	Compressor-Assy. (3 Phase) includes Maneurop compressor and	27	155403	Cut Out-Low Pressure
		155054 Drier-Filter	28	151129	GearMotor-1/8 HP (Pump)
	118685	Compressor-Assy (1 Phase) includes Maneurop compressor and	29	113769	Valve-Assy. Water includes
		151447 Capacitor-Run			155410 Valve-Water 3/8
		151448 Kit-Compr Start Cap & Relay	29A	155444	Kit-Water Valve Repair
		155054 Drier-Filter	30	139939	Bracket-Condenser Mtg.
10A	151446	Kit-Maneurop Compr. Mtg.			
10B	151397	Adaptor-3/8 ODF x 1" Rotalock			
10C	119326	Valve-Assy Rotalock RH MTZ includes valve and			
		165532 Insulator-Rotalock Valve			
		151399 Kit-Washer Rotalock MTZ			
11	118647	Box-Assy. Capacitor & Relay includes			
		151447 Capacitor-Run			
		151448 Kit-Compr Start Cap & Relay			
11A	117821	Cover-Assy. Capacitor & Relay Box			
12	155442	Thermostat-Low (Day)			
13	118868	Thermostat-Assy. w/Cover (Ranco) (Cabinet)			
or	155483	Thermostat-Evap 41° Fixed w/OFF (Danfoss) (Cabinet)			
14	155442	Thermostat-Low (Night)			
15	155451	Valve-Automatic Expansion (Cylinder)			
15A	165531	Insulator-Expansion Valve			
16	155421	Valve-Solenoid 208-240v			
16A	155434	Kit-Solenoid Valve			

* Location may vary.

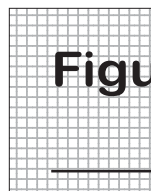
Not Shown:

161216	Sensor-10K Thermistor
116410	Kit-Dispense Head Switch

**Figure 14 44N-CMT-W Air Cooled
Side/Back View (Sheet 1 of 2)**



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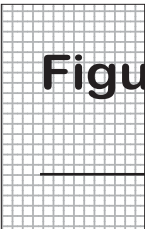


**Figure 14 44N-CMT-W Air Cooled
Side/Back View (Sheet 1 of 2)**

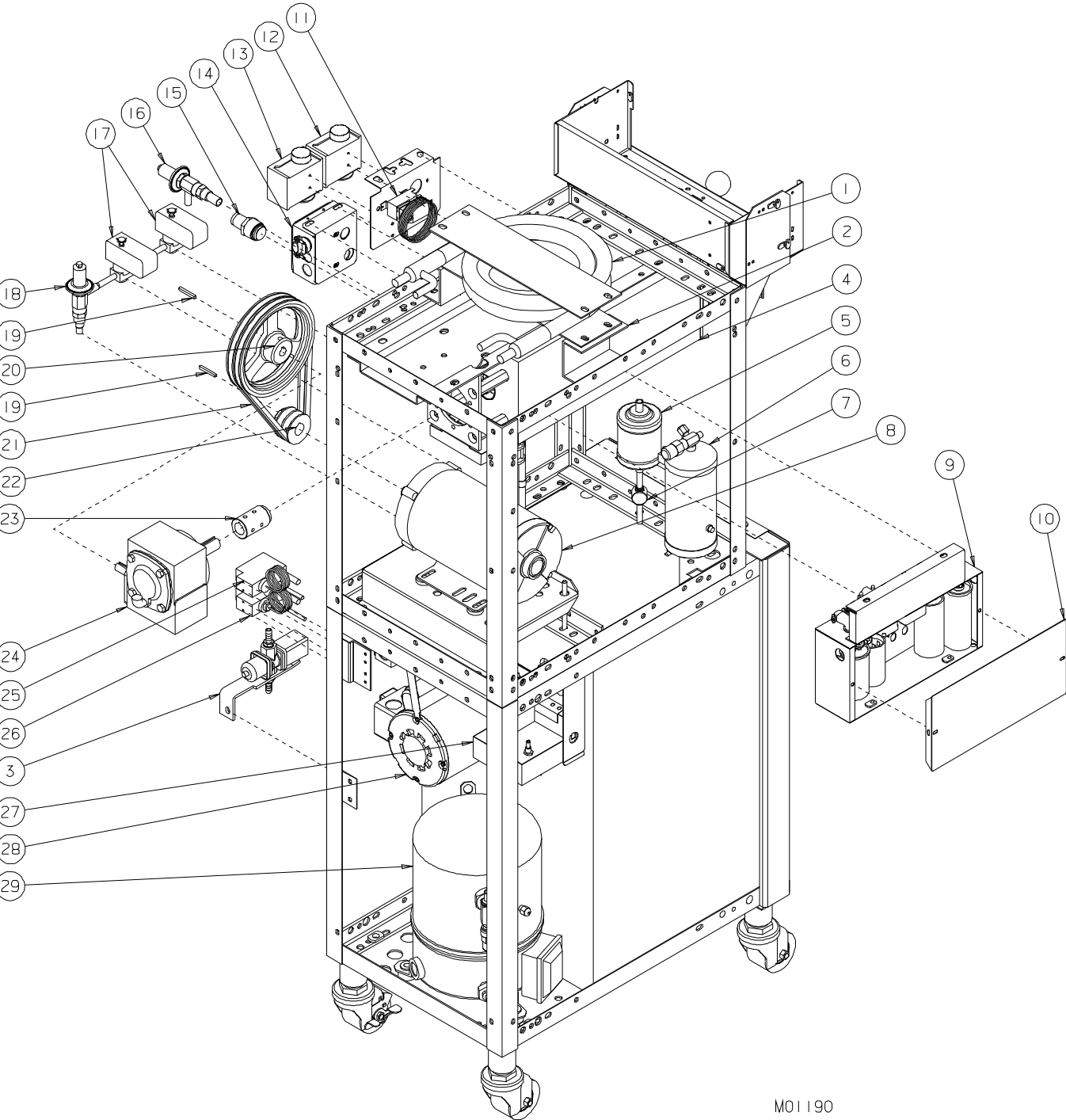
Item	Part No.	Description	Item	Part No.	Description
1	155115-C	Condenser-Air	27	116560	Pan-Assy. Condensate includes 196002 Tubing-3/16 ID x 5/16 OD PVC
1A	116566	Shroud-Assy. Condenser	28	151129	Gearmotor-1/8hp (Mix Transfer)
1B	138435	Bracket-Cond. Mtg.	29	119266	Compressor-Assy. (3 ph) includes Maneurop compressor and 155054 Drier-Filter 16 cu in
2	159018	Blade-Fan 10" 32°		119265	Compressor-Assy. (1 ph) includes Maneurop compressor and 151452 Capacitor-Run 155054 Drier-Filter 16 cu in 151448 Kit-Compr. Start Cap & Relay
3	151080	Motor-Fan 35w 230-1-50/60	29A	151446	Kit-Maneurop Compr. Mtg.
4	118602	Cylinder-Assy. Complete	29B	151397	Adaptor-3/8 ODF x 1" Rotalock
5	155054	Drier-Filter 16 cu in	29C	119326	Valve-Assy Rotalock RH MTZ 1 Phase includes valve and 165532 Insulator-Rotalock Valve
6	155057	Receiver-3 lb. 3/8 ID Sweat		151399	Kit-Washer Rotalock MTZ
7	155059	Glass-Sight		119337	Valve-Rotalock 1-14 x 1/2 RH 3 Phase includes valve and 165532 Insulator-Rotalock Valve
8	151052	Motor-2HP 3 Phase (Drive)		151399	Kit-Washer Rotalock MTZ
	118140	Kit-Motor & Cap. 1 Phase (Drive) includes motor and 150872 Capacitor-Motor Start (2) 150318 Capacitor-Run			
9	119207	Box-Assy. Cap & Relay Box 1 Ph (See Fig. 10)			
10	138573	Cover-Cap & Relay Box			
11	118868	Thermostat-Assy. w/Cover (Ranco) (Cabinet)			
or	155483	Thermostat-Evap 41° Fixed w/OFF (Danfoss) (Cabinet)			
12	155442	Thermostat-Low (Day)			
13	155442	Thermostat-Low (Night)			
14	119216	Box-Assy. Relay 3 Ph (See Fig. 9)			
14A	150741	Cover-Electric Box 4 x 4			
15	117014	Kit-Pressure Switch Field Repl. includes switch 116105 Nut-Assy. Pressure Switch			
16	155449	Valve-Automatic Expansion (Cabinet)			
17	155421	Valve-Solenoid 208-240v			
17A	155434	Kit-Solenoid Valve			
18	155448	Valve-Automatic Expansion (Cylinder)			
19	153322	Key-Drive 3/16 SQ x 1-1/2 LB			
20	153602	Sheave-5/8 Bore (Driven)			
20A	160033	Screw-SK Set			
21	153162	Belt-V			
22	153611	Sheave-7/8 Bore (Drive)			
22A	160033	Screw-SK Set			
23	111780	Coupling-Assy. 7/8 in. Drive			
24	153354	Reducer-Gear RH 5/1 (See Fig. 14)			
25	155425	Cut-Out-High Pressure			
26	155403	Cut-Out-Low Pressure			

Not Shown:

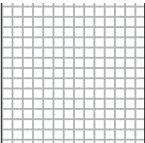
161216 Sensor-10K Thermistor
114188 Tube-Assy. Drain



**Figure 15 44N-CMT -W Water Cooled
Side/Back View (Sheet 1 of 2)**



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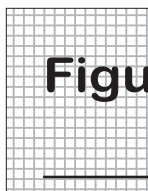


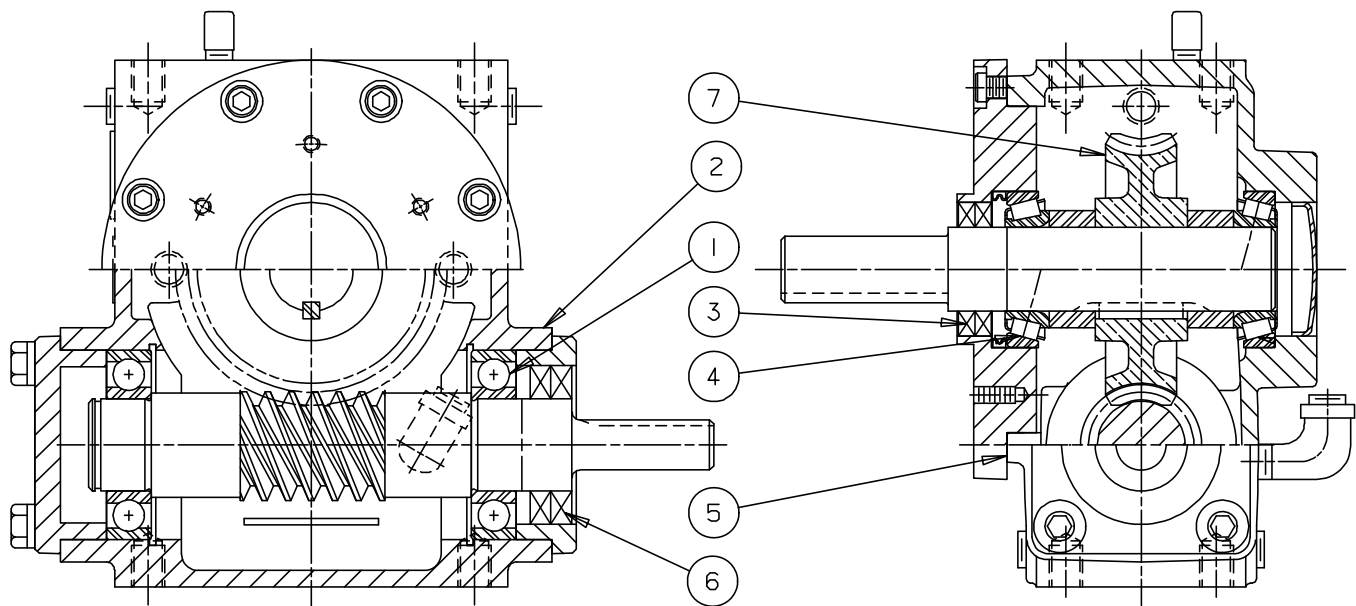
Figure 15 44N-CMT-W Water Cooled Side/Back View (Sheet 1 of 2)

Item	Part No.	Description	Item	Part No.	Description
1	155029	Condenser-Water	25	155425	Cut-Out-High Pressure
2	139939	Bracket-Condenser Mounting	26	155403	Cut-Out-Low Pressure
3	113769	Valve-Assy. Water	27	116560	Pan-Assy. Condensate in-cludes
		155410 Valve-Water 3/8			196002 Tubing-3/16 ID x 5/16 OD PVC
3A	155444	Kit-Water Valve Repair	28	151129	Gearmotor-1/8hp (Mix Transfer)
4	118602	Cylinder-Assy. Complete	29	119266	Compressor-Assy. (3 ph) includes Maneurop compressor and
5	155054	Drier-Filter 16 cu in			155054 Drier-Filter 16 cu in
6	155057	Receiver-3 lb. 3/8 ID Sweat		119265	Compressor-Assy. (1 ph) includes Maneurop compressor and
7	155059	Glass-Sight			151452 Capacitor-Run
8	118140	Kit-Motor&Cap. 1 Ph (Drive) includes motor and			155054 Drier-Filter 16 cu in
		150872 Capacitor-Motor Start (2)			151448 Kit-Compr. Start Cap & Relay
		150318 Capacitor-Run			
	151052	Motor-2HP 3 Phase (Drive)	29A	151446	Kit-Maneurop Compr. Mtg.
9	119207	Box-Assy. Cap & Relay Box 1 Ph (See Fig. 10)	29B	151397	Adaptor-3/8 ODF x 1" Rotalock
9A	139508	Bracket-Capacitor Box	29C	119326	Valve-Assy Rotalock RH MTZ 1 Phase includes valve and
10	138573	Cover-Cap & Relay Box			165532 Insulator-Rotalock Valve
11	118868	Thermostat-Assy. w/Cover (Ranco) (Cabinet)			151399 Kit-Washer Rotalock MTZ
or	155483	Thermostat-Evap 41° Fixed w/ OFF (Danfoss) (Cabinet)		119337	Valve-Rotalock 1-14 x 1/2 RH 3 Phase includes valve and
12	155442	Thermostat-Low (Day)			165532 Insulator-Rotalock Valve
13	155442	Thermostat-Low (Night)			151399 Kit-Washer Rotalock MTZ
14	119216	Box-Assy. Relay 3 Ph (See Fig. 9)			
14A	150741	Cover-Electric Box 4 x 4			
15	117014	Kit-Pressure Switch Field Repl. includes			
		116105 Nut-Assy. Pressure Switch			
16	155449	Valve-Automatic Expansion (Cabinet)			
17	155421	Valve-Solenoid 208-240v			
17A	155434	Kit-Solenoid Valve			
18	155448	Valve-Automatic Expansion (Cylinder)			
19	153322	Key-Drive 3/16 SQ x 1-1/2 LB			
20	153602	Sheave-5/8 Bore (Driven)			
20A	160033	Screw-SK Set			
21	153162	Belt-V			
22	153611	Sheave-7/8 Bore (Drive)			
22A	160033	Screw-SK Set			
23	111780	Coupling-Assy. 7/8 in. Drive			
24	153354	Reducer-Gear RH 5/1 (See Fig. 14)			

Not Shown:

161216	Sensor-10K Thermistor
114188	Tube-Assy. Drain

Figure 16 Gear Reducer - 15N-CMT-W

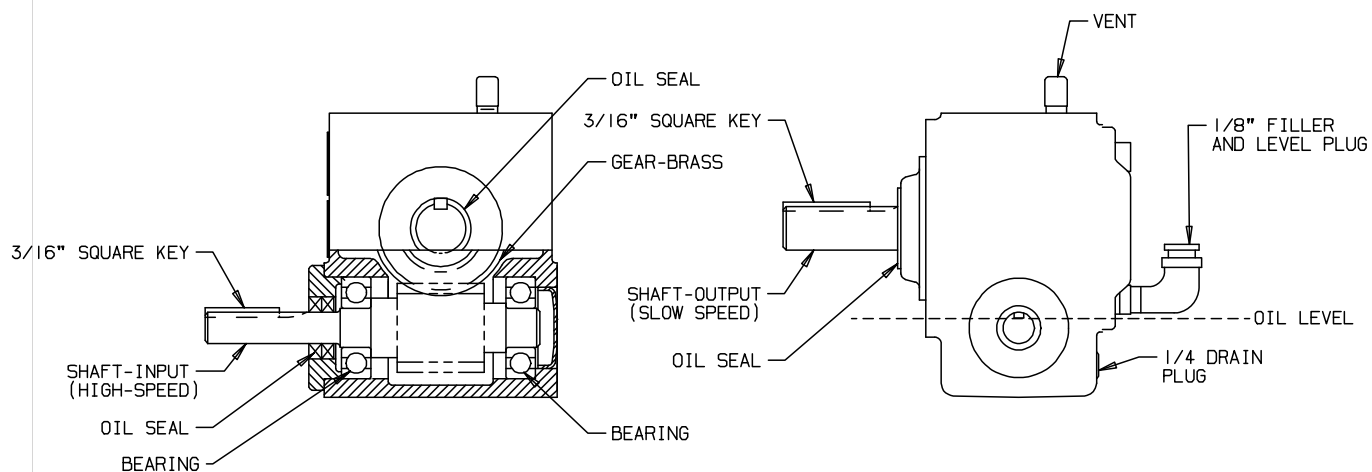


M00830

Model HCD926

153356 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	
	111964	Coupling-Assy. 1 in. Drive	

Figure 17 Gear Reducers - 44N-CMT-W

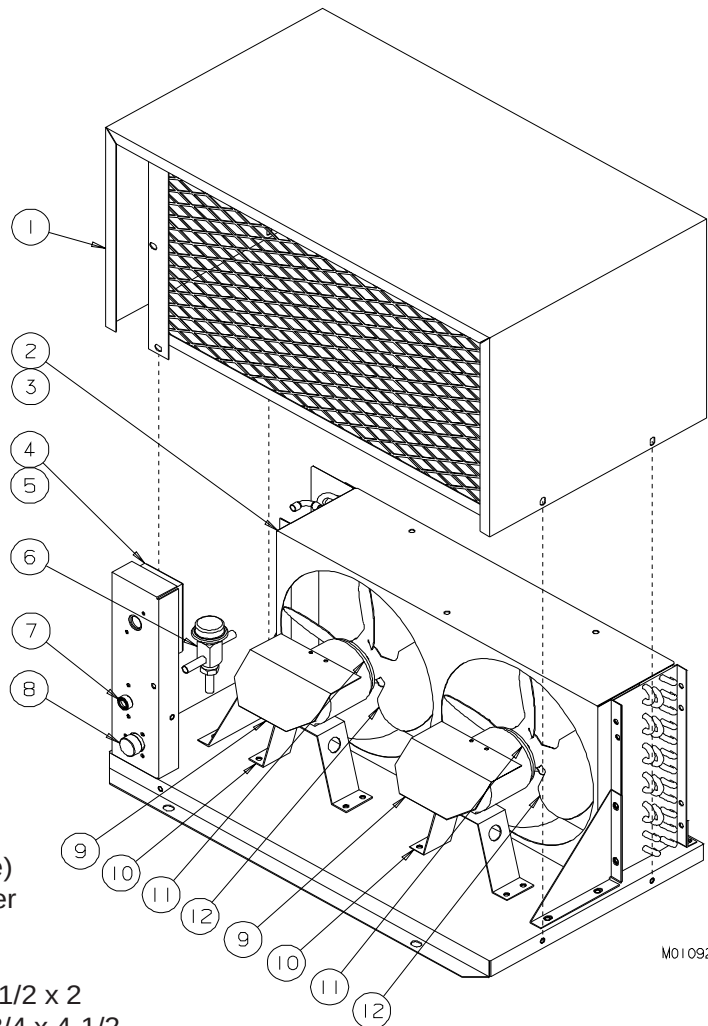
M00264

Model — HCD920**153354 5 - 1 Ratio**

116537	Kit-Reducer Shaft Seals.....	1 ea. req.
158055	Oil-Special Gear Lube (per quart)	
111780	Coupling-Assy. 7/8" Drive	

NOTE: Model HCD920 is not a rebuildable gear reducer.

Figure 18 Air Cooled Remote Condenser



REF.	PART No.	DESCRIPTION
*	116781-01	Condenser-Assy. 2 Hp Remote (Complete)
1	117207	Cover-Assy. Condenser
2	155120-C	Condenser-Air
3	138465	Shroud-Fan
4	150732	Box-Electric 2-3/4 x 4-1/2 x 2
5	150737	Cover-Electric Box 2-3/4 x 4-1/2
6	155454	Valve-Head Pressure Control
7	153420	Coupling-Refr. 3/8 MQC 3/8 SW
7A	140039	Plate-Coupling Mtg.
8	153418	Coupling-Refr. 1/2MQC 1/2 SW
8A	153502	Flange-Refr. Coupling Mount
8B	153503	Cap-Dust Refr. Coupling
9	139017	Shield-Motor Rain
10	137632	Bracket-Fan Condenser
11	151072	Motor-Fan 50W 230V 60Hz
12	159029	Blade-Fan 11" Dia 36°

* Includes all items above.

Not Shown:

155064	Receiver-10-1/2 lb. 3/8 Sweat
155465	Cut Out-Low Pressure
155466	Control-Pressure Fan
166026	Heater-Crankcase
119124	Kit-25 Foot Line Sets 404a
119125	Kit-50 Foot Line Sets 404a

Accessories

Part No.	Description
196103	Bottle-Wash Plunger & MTS
158004	Brush-4-inch Cylinder w/Handle
158009	Brush-4-inch Cylinder w/o Handle
158018	Brush-7/16-inch diameter 12-inch Overall Length
158019	Brush-9/16-inch diameter 30-inch Overall Length
158026	Brush-1/4-inch diameter 12-inch Long
162133	Caster-Low Profile with Brake
162134	Caster-Low Profile w/o Brake
184251	Chart-O-Ring SCP (Laminated)
116100	Kit-O-Ring
112978	Leg-Assy. 6-inch
158000A	Lubricant-Petrol Gel (per 4 oz. tube)
158013	Sanitizer-Stera Sheen Sample
158014	Sanitizer-Stera Sheen (per case/4)
158014A	Sanitizer-Stera Sheen (per 4 lb. jar)
158049	Scale-Overrun
169374	Tool-O-Ring Removal
184805	Video-Training CMT EF (Operational)

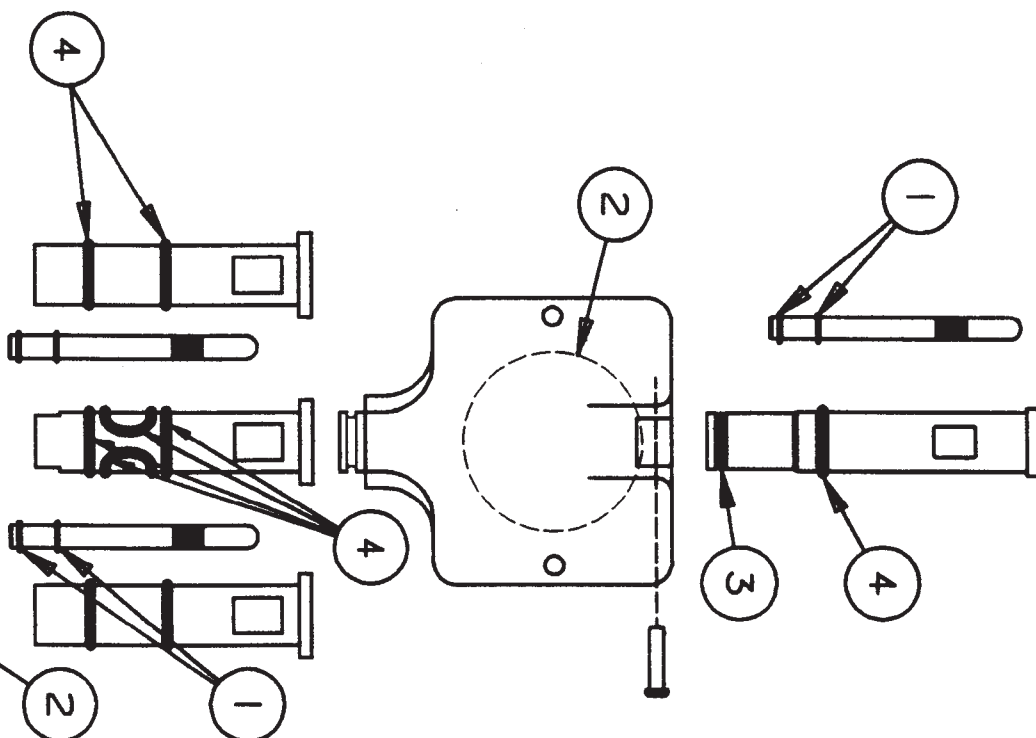
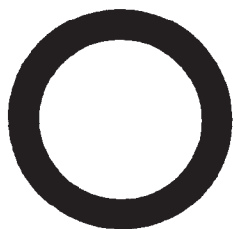
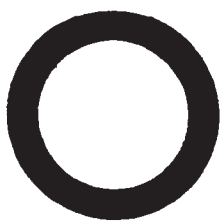
184251

SOFT SERVE DISPENSING HEADS

REV



PART NO.
159309 ②



PH. NO. 309-755-4553

O-RING CHART

H.C. DUKE & SON, INC.