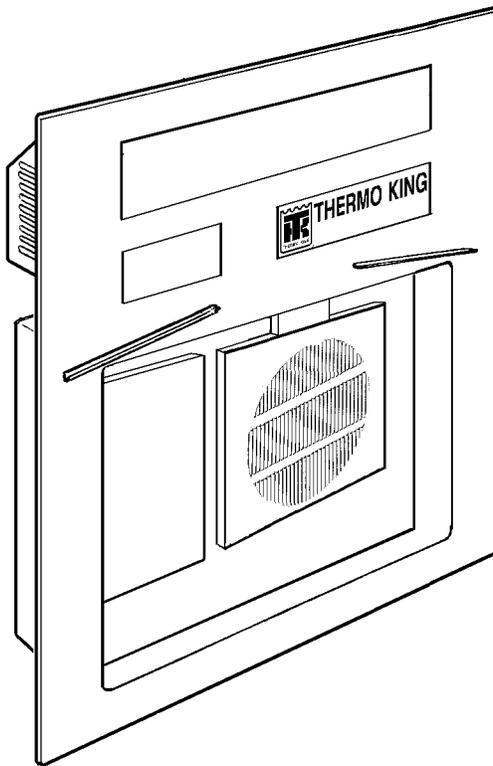


**CF-III M9, M9A, M9B & M9C**

**Prepared for Hapag Lloyd**

TK 40261-4.0



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# General Information

## Tables of Contents

This Parts Manual contains a numerical table of contents listing each assembly name, its associated Grid number and page number. The numerical table of contents is arranged numerically by Grid number. There are references in a parts list referring to other Grid numbers, the numerical table of contents is arranged to facilitate finding the referenced illustrations. At the rear of this parts manual are two indexes, a numerical and alphabetical. The indexes contain all of the part numbers and descriptions which appear in this manual.

## Assemblies and Subassemblies

When parts are indented in the description list, they are preceded with a bullet ( • ). This indicates that the part(s) is available separately or included in an assembly.

### GRID NO. 67D6 SWITCH PANEL ASSEMBLY

REF	PART#	DESCRIPTION	QTY
	45-1239	PANEL - assy, switch	1
1	99-1960	• PANEL	1
	99-6280	• • NAMEPLATE - panel	1
2	33-743	• GASKET	1

For example: the switch panel nameplate (99-6280) is available separately, available as part of the switch panel (99-1960) and with the panel assembly (45-1239).

## ABBREVIATIONS

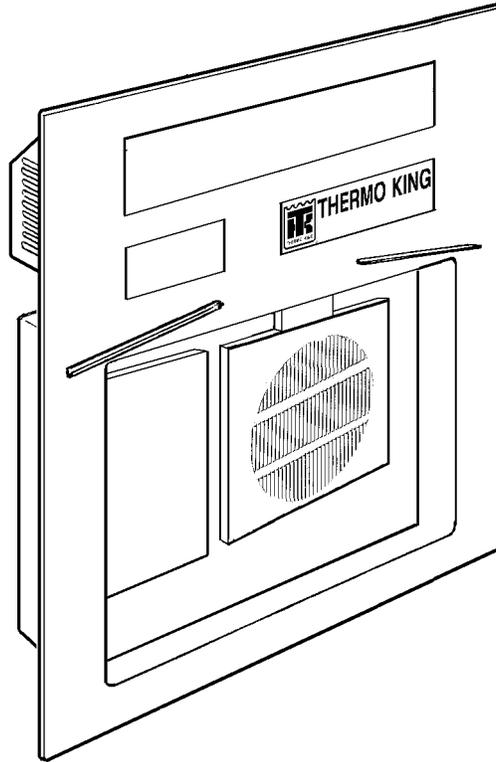
The following abbreviations appear in parts manuals

<b>A</b> AC . . . . . alternating current	<b>E</b> (continued)	<b>O</b> os . . . . . oversized
A/R . . . . . as required	evap. . . . . evaporator	od . . . . . outside diameter
accum . . . . . accumulator	exch . . . . . exchanger	<b>P</b> pcb . . . . . printed circuit board
adj . . . . . adjusting	exp . . . . . expansion	pkg . . . . . package
al . . . . . aluminum	ext . . . . . external	ph . . . . . phase
alt. . . . . alternator	<b>F</b> F . . . . . Fahrenheit	pos . . . . . positive
A or amp . . . . . ampere	fill . . . . . fillister	psi . . . . . pounds per square inch
assy . . . . . assembly	fi . . . . . fuel injection	
<b>B</b> bd . . . . . board	fl . . . . . flare	<b>R</b> rad . . . . . radiator
brg . . . . . bearing	fpt . . . . . female pipe thread	rcvr . . . . . receiver
brkr . . . . . breaker	ft . . . . . feet	ref . . . . . reference
brkt . . . . . bracket	ftg . . . . . fitting	reg . . . . . regulator
<b>C</b> C . . . . . Celsius	<b>H</b> hex . . . . . hexagon	req . . . . . required
cw . . . . . clockwise	hh . . . . . hexagon head	rpm . . . . . revolutions per minute
ccw . . . . . counter-clockwise	hd . . . . . head	<b>S</b> sec . . . . . second
cam . . . . . camshaft	hp . . . . . horsepower	sld . . . . . solder
compr . . . . . compressor	hsg . . . . . housing	soc hd. . . . . socket head
cond. . . . . condenser	<b>I</b> id . . . . . inside diameter	sol . . . . . solenoid
conn. . . . . connecting, connector	in . . . . . inch (2.54 centimeters)	spl . . . . . special
cyl . . . . . cylinder	incl . . . . . includes	sq . . . . . square
<b>D</b> def . . . . . defrost	inj . . . . . injection	ss . . . . . stainless steel
deg . . . . . degree	int . . . . . internal	std. . . . . standard
dehyd. . . . . dehydrator	int th . . . . . internal tooth	stl . . . . . steel
dia . . . . . diameter	<b>L</b> liq . . . . . liquid	suct. . . . . suction
DC . . . . . direct current	lg . . . . . long	sw . . . . . switch
disch . . . . . discharge	<b>M</b> mm . . . . . millimeter	<b>T</b> term . . . . . terminal
diff . . . . . differential	mpt . . . . . male pipe thread	temp . . . . . temperature
<b>E</b> EMI . . . . . Extended	mod . . . . . modulating	thk. . . . . thick
. . . . . Maintenance Interval	<b>N</b> neg . . . . . negative	<b>U</b> us . . . . . undersize
EEC . . . . . European Economic Community	No. . . . . number	<b>V</b> vib . . . . . vibrasorber
eng . . . . . engine	NS . . . . . not supplied	<b>W</b> W . . . . . watt
	NSS . . . . . not sold separately	w/ . . . . . with
		w/o . . . . . without

# CF-III M9, M9A, M9B & M9C Prepared for Hapag Lloyd

## Contents

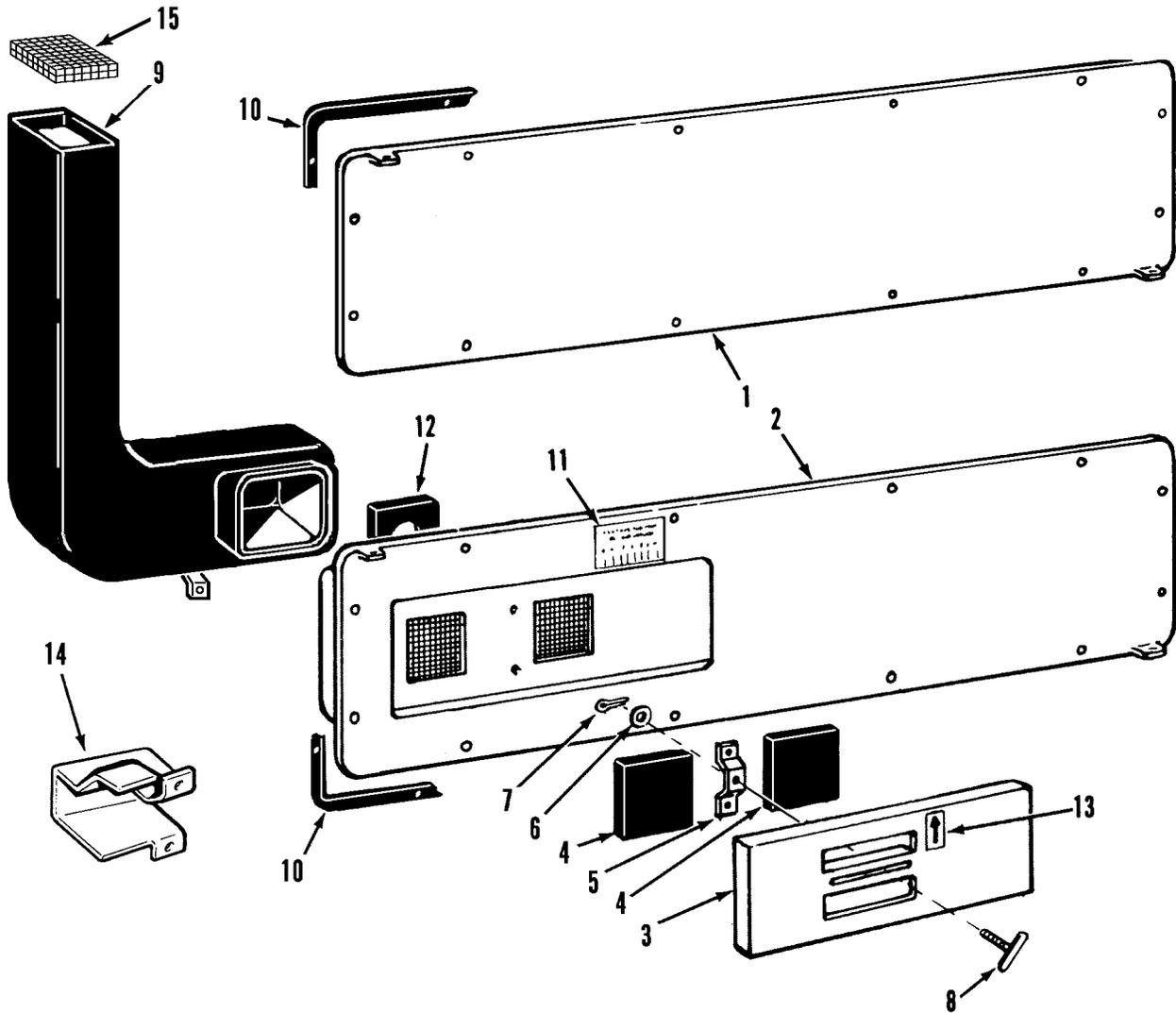
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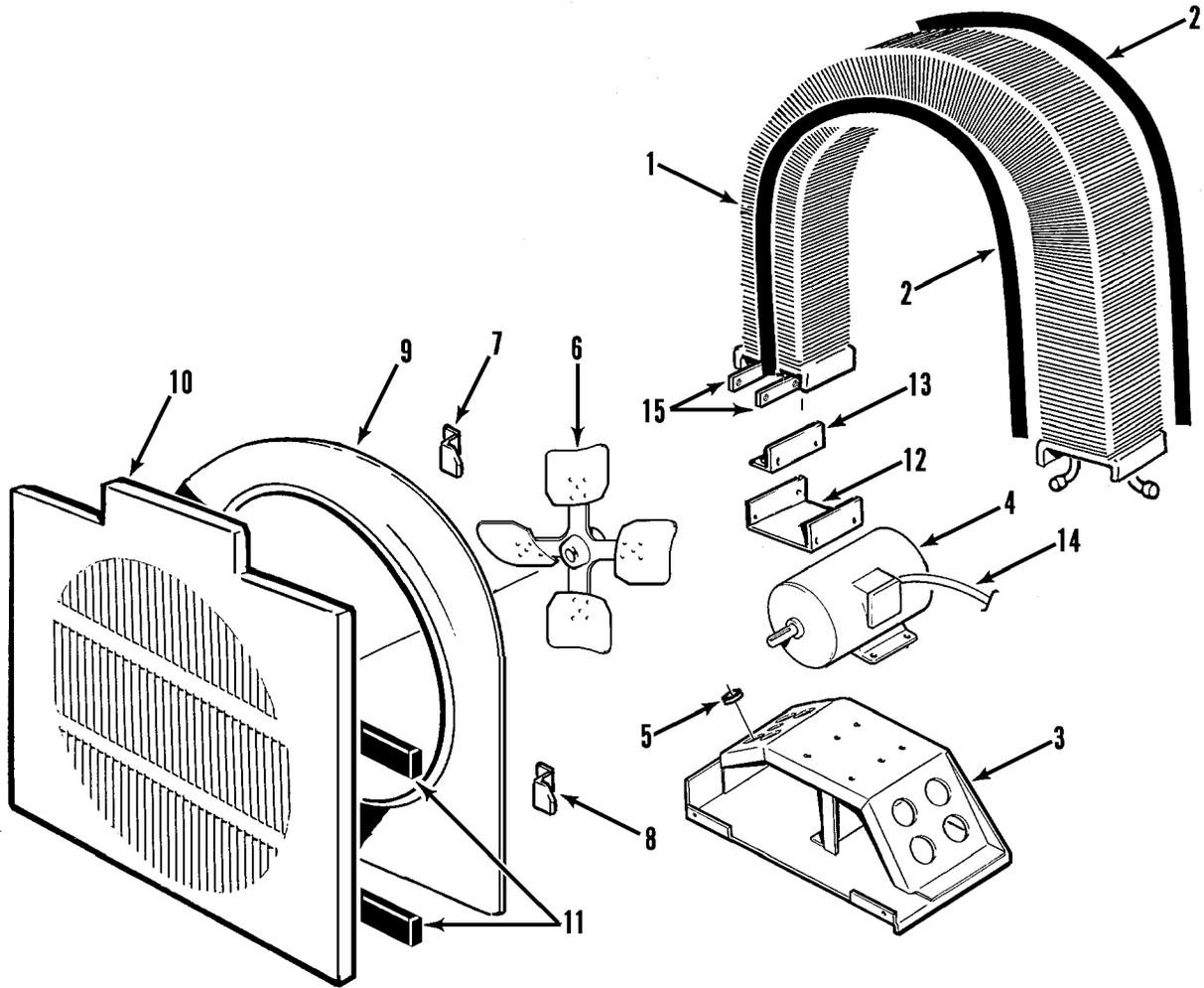
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<b>B/M</b>	<b>DESCRIPTION</b>	<b>Date</b>
090156	CF-III M9	12/90
090176	CF-III M9A	11/10
090184	CF-III M9B	4/93
090185	CF-III M9C	4/93



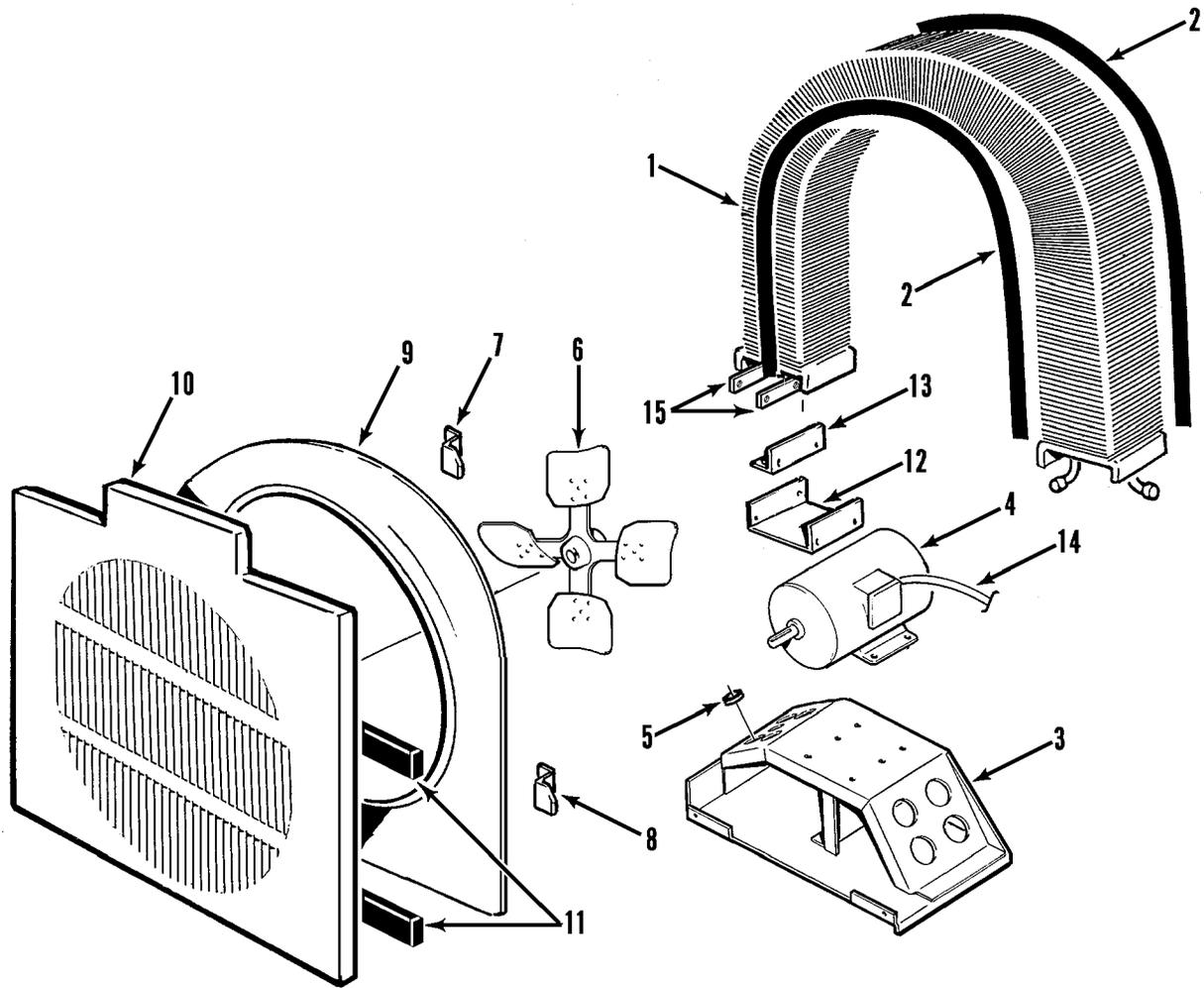


REF	PART#	DESCRIPTION	QTY
1	98-3541	DOOR - evaporator (upper)	1
2	98-3540	DOOR - air exchanger	1
	55-2979	SCREW - door	28
	55-2086	FLATWASHER	28
	55-1800	LOCKWASHER	28
3	91-6206	COVER - air exchange	1
	91-581	• COVER - air exchanger	1
4	33-2015	• GASKET - air exchanger	2
5	99-6748	• BRACKET - air exchanger	1
6	55-4012	• WASHER - special	1
7	55-2550	• PIN - cotter	1
8	55-5120	• SCREW - wing	1
	203-397	ADHESIVE	A/R
9	98-2998	DUCT - air exchanger	1
	33-1318	GASKET - duct	3
10	99-7115	STRIP - gasket (door, 25 ft)	A/R
11	91-4086	NAMEPLATE - Fresh Air Exchange	1
12	33-1712	GASKET - air exchanger	1
13	99-6783	NAMEPLATE - arrow	1
14	91-374	BRACKET - duct	1
	55-3049	SCREW - bracket	3
	55-2001	FLATWASHER	3
15	91-521	SCREEN - cap (duct)	1
	55-3010	RIVET - screen	2
	55-6157	WASHER - special	2



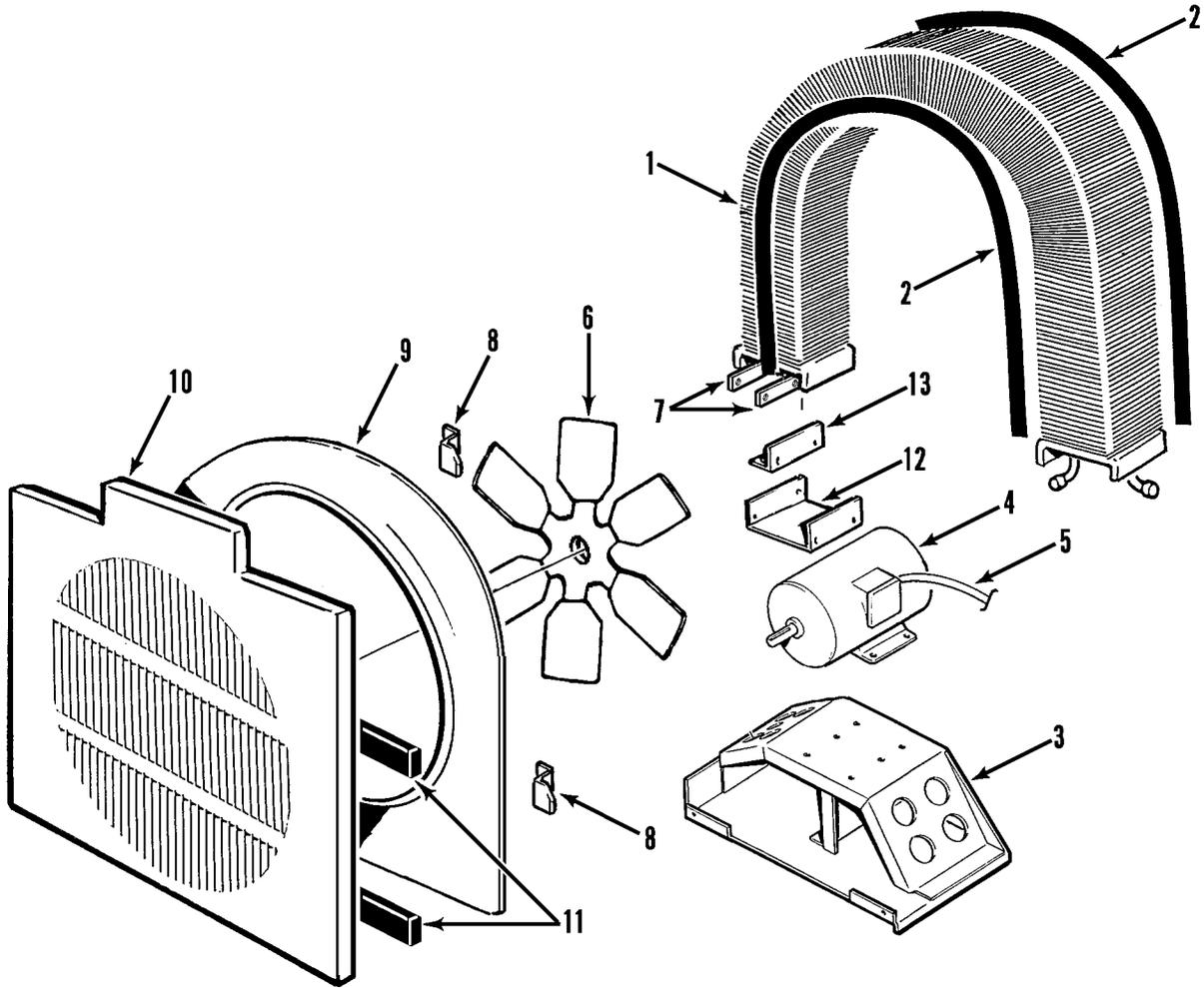


REF	PART#	DESCRIPTION	QTY
1	67-1392	COIL - condenser (complete, incl 12, 13, 15)	1
	55-2969	SCREW - coil	3
	55-2959	LOCKWASHER	3
	55-2958	FLATWASHER	3
2	99-5966	STRIP - gasket (condenser, 50 ft)	A/R
3	98-4236	BRACKET - condenser motor	1
	55-4931	SPACER	4
	55-4955	NUT	4
	55-5691	INSERT - threaded (1/4-20)	6
4	104-613	MOTOR - condenser	1
	77-1498	• BEARING - motor	2
	44-7800	• PROTECTOR - motor	1
	44-5316	CONNECTOR - barb (1/2 mpt)	1
	55-2788	FITTING - barb (3/4 mpt)	1
	55-5018	NUT - connector (3/4 mpt)	1
	99-9084	NAMEPLATE - arrow	1
	55-2969	SCREW - motor	4
	55-4727	WASHER - spacer	4
	55-2958	FLATWASHER	4
	55-4954	LOCKNUT	4
5	33-810	GROMMET	2
6	78-520	FAN - condenser	1
	55-3089	• SCREW - hub	2
	55-2959	• LOCKWASHER	2
	55-2958	• FLATWASHER	2
7	99-8965	BRACKET - orifice (right)	1
8	99-8966	BRACKET - orifice (left)	1
	55-1587	SCREW - bracket	6
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
	55-3045	WASHER - dome	2
9	98-3035	ORIFICE	1
10	98-3202	GRILLE - condenser	1
	55-5691	INSERT - threaded	4
	55-2979	SCREW - grille	4
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
11	99-9702	STRIP - gasket (grille)	1
12	99-9021	BRACKET - coil	1
13	99-9338	ANGLE - condenser coil	1
	55-1587	SCREW - angle	4
	55-1800	LOCKWASHER	4



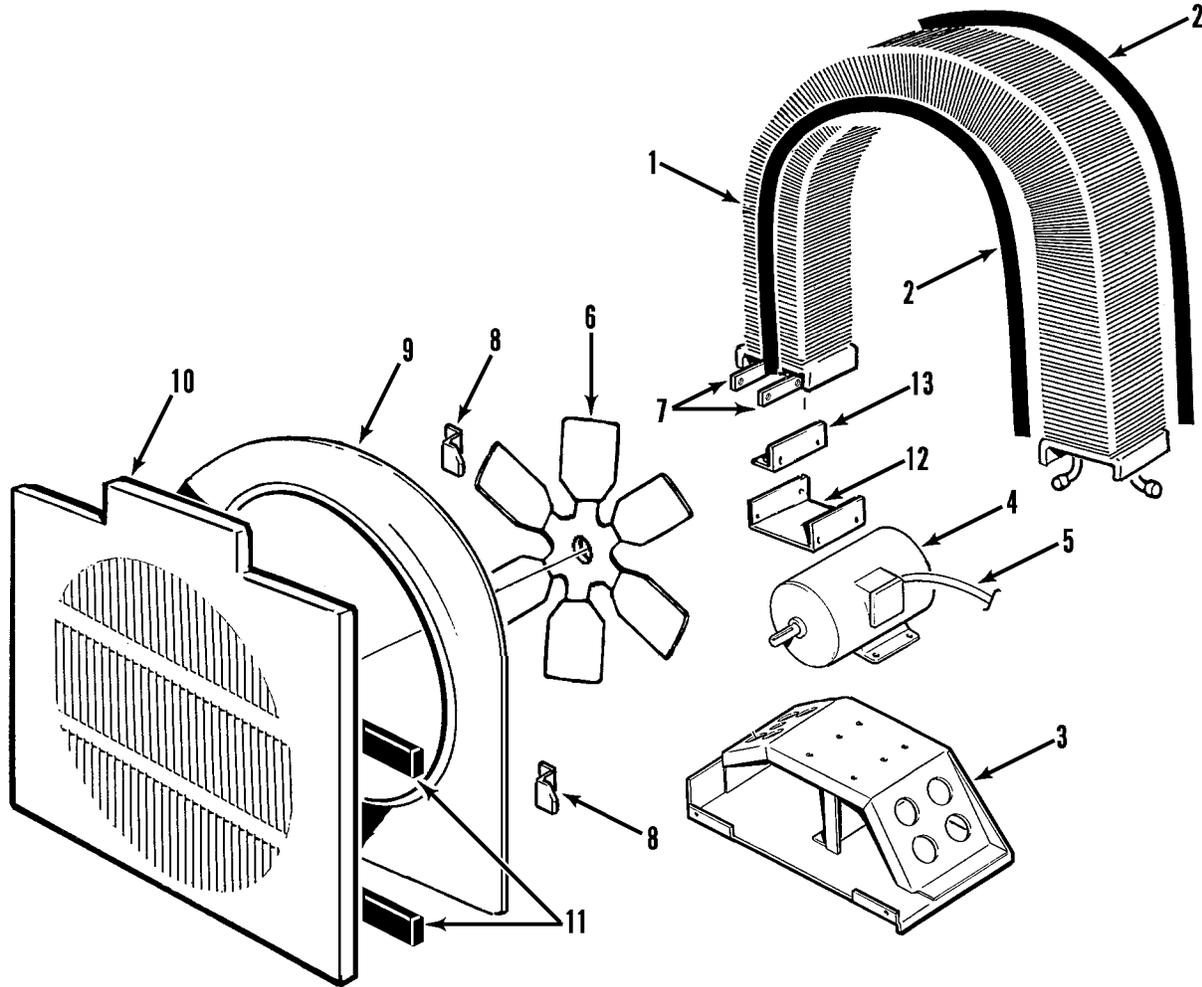


REF	PART#	DESCRIPTION	QTY
	55-2086	FLATWASHER	4
	55-3059	NUT - speed	4
14	44-8850	HARNESS - condenser	1
15	99-7088	NUTSTRIP	4
	55-3010	RIVET - nutstrip	4
	55-2969	SCREW - bracket	6
	55-2959	LOCKWASHER	6
	55-2958	FLATWASHER	6





REF	PART#	DESCRIPTION	QTY
1	67-1392	COIL - condenser (complete, incl 7, 12, 13)	1
	55-2969	SCREW - coil	3
	55-2959	LOCKWASHER	3
	55-2958	FLATWASHER	3
2	99-5966	STRIP - gasket (condenser, 50 ft)	A/R
3	98-4236	BRACKET - condenser motor	1
	55-4931	SPACER	4
	55-4955	NUT	4
	55-5691	INSERT - threaded (1/4-20)	6
4	104-613	MOTOR - condenser	1
	77-1498	• BEARING - motor	2
	44-7800	• PROTECTOR - motor	1
	77-1424	• SEAL - shaft	1
	55-7410	• KEY - shaft	1
	44-5316	CONNECTOR - barb (1/2 mpt)	1
	55-2788	FITTING - barb (3/4 mpt)	1
	55-5018	NUT - connector (3/4 mpt)	1
	99-9084	NAMEPLATE - arrow	1
	55-2969	SCREW - motor	4
	55-4727	WASHER	4
	55-2958	FLATWASHER	4
	55-4954	LOCKNUT	4
5	44-8850	HARNESS - condenser	1
6	78-520	FAN - condenser	1
	55-3089	• SCREW - hub	2
	55-2959	• LOCKWASHER	2
	55-2958	• FLATWASHER	2
7	99-7088	NUTSTRIP	2
	55-3010	RIVET	4
	55-2969	SCREW - bracket	6
	55-2959	LOCKWASHER	6
	55-2958	FLATWASHER	6
8	91-3801	BRACKET - orifice	2
	55-1587	SCREW - bracket	6
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
9	98-3035	ORIFICE	1
10	98-3202	GRILLE - condenser	1
	91-731	ANGLE - grille	1
	55-5691	INSERT - threaded	4
	55-2979	SCREW - grille	4



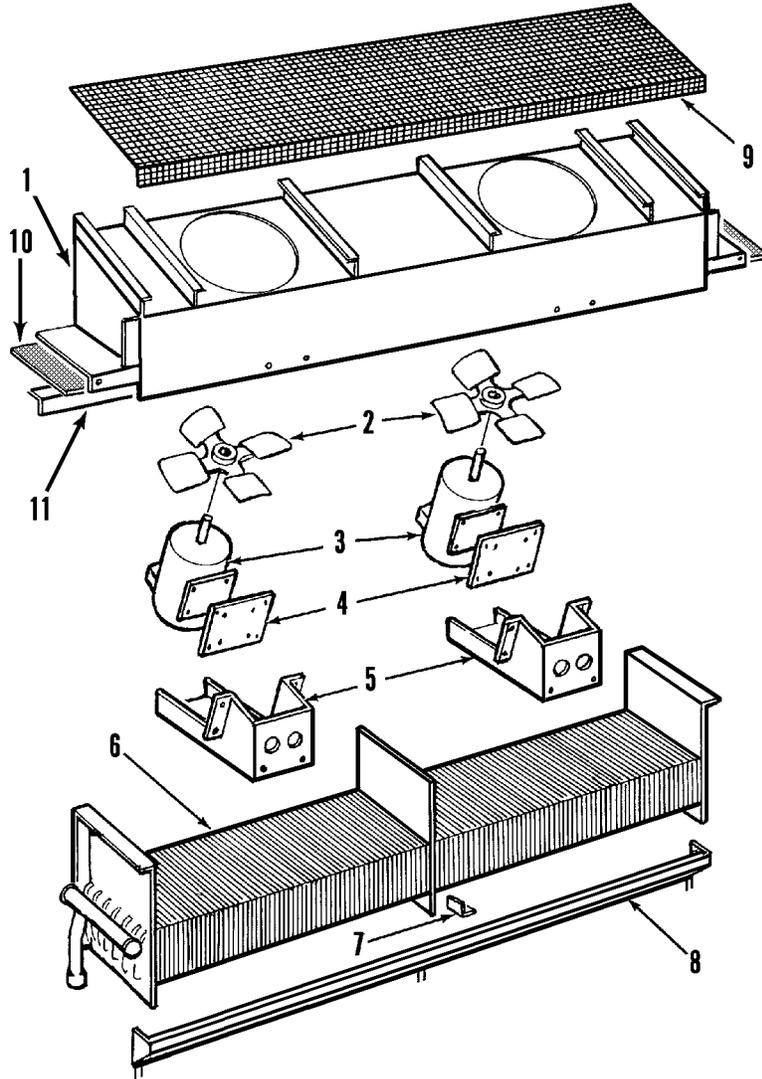
Revised  
6/6/97

**CONDENSER COIL & MOTOR GROUP (M9A, M9B & M9C)**



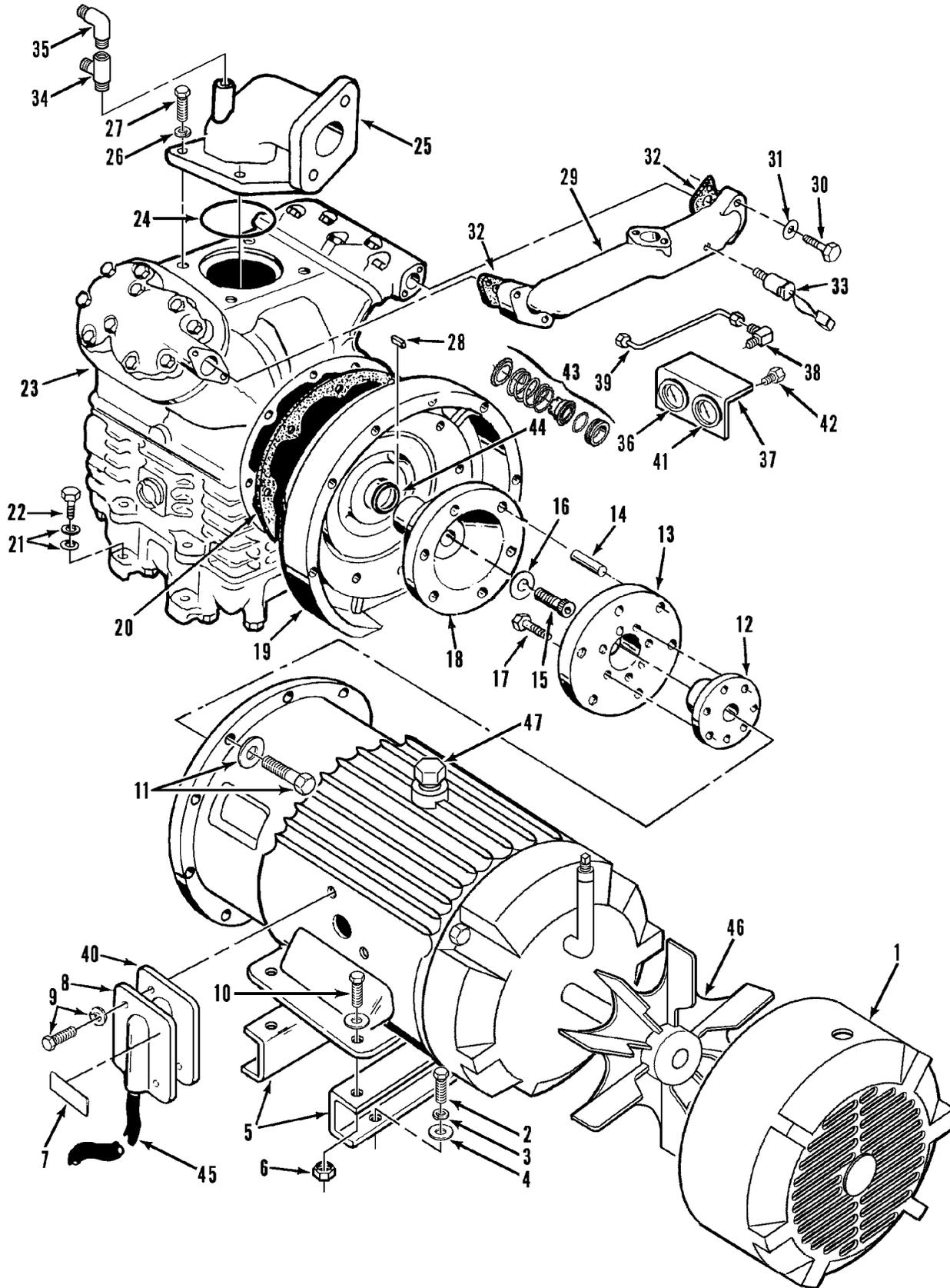
**107B8**

<b>REF</b>	<b>PART#</b>	<b>DESCRIPTION</b>	<b>QTY</b>
	55-4742	WASHER - spacer	2
	55-2086	FLATWASHER	2
	55-1800	LOCKWASHER	4
11	99-9702	STRIP - gasket (grille)	1
12	99-9021	BRACKET - coil	1
13	99-9338	ANGLE - condenser coil	1
	55-1587	SCREW - angle	4
	55-1800	LOCKWASHER	4
	55-2086	FLATWASHER	4
	55-3059	NUT - speed	4



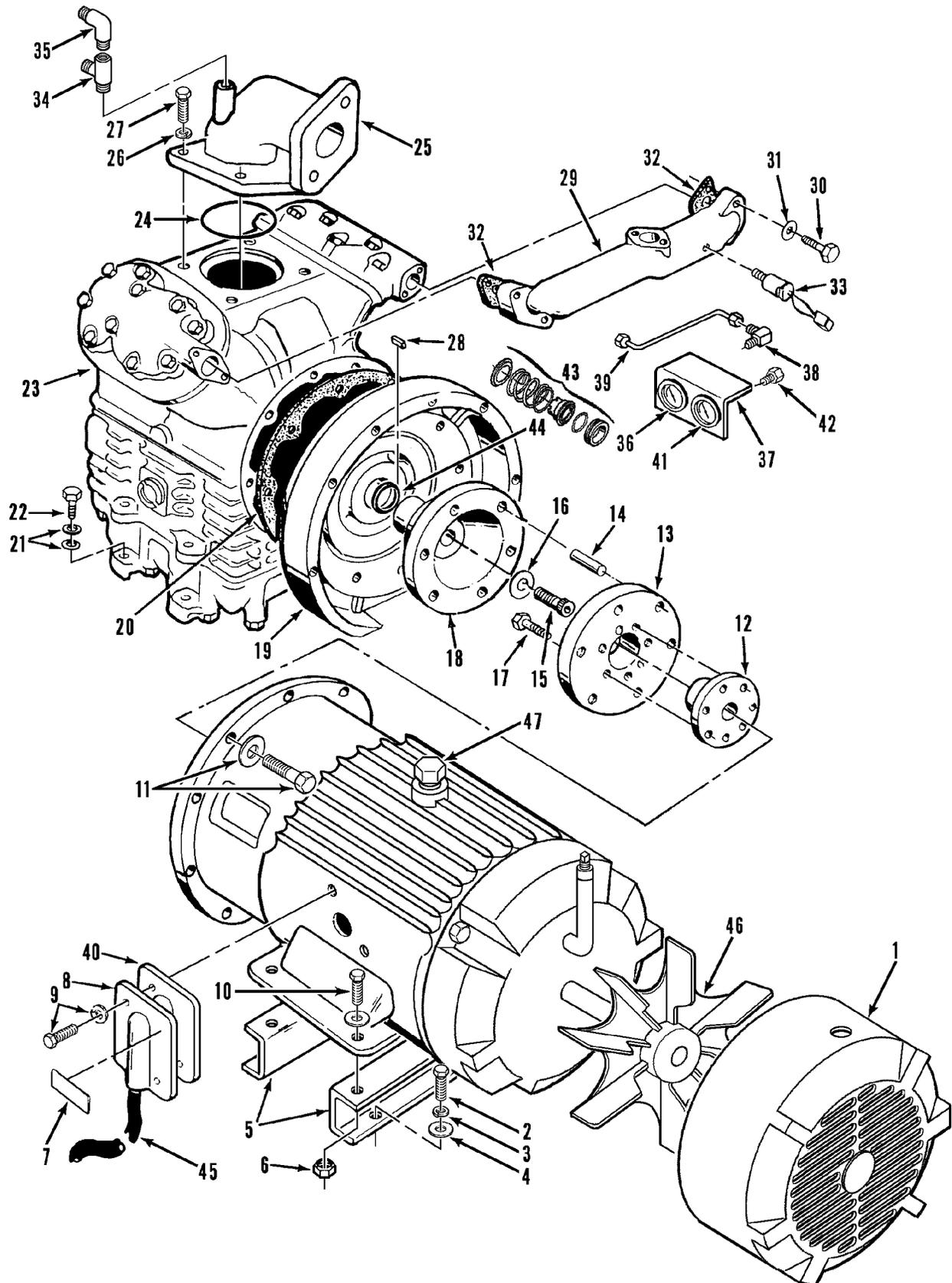


REF	PART#	DESCRIPTION	QTY
1	98-3334	SHROUD - evaporator (M9, M9A, M9C)	1
	98-4407	SHROUD - evaporator (M9B)	1
	33-572	GROMMET (3/4 id)	2
2	78-769	FAN - evaporator (M9, M9A, M9C)	2
	78-911	FAN - evaporator (M9B)	2
3	104-623	MOTOR - evaporator fan	2
	77-1498	• BEARING - motor	2
	44-7798	• PROTECTOR - low speed	1
	44-7799	• PROTECTOR - high speed	1
	44-8838	HARNESS - fan motor (1)	1
	44-8839	HARNESS - fan motor (2)	1
	44-5316	CONNECTOR - barb (1/2 mpt)	2
	55-2788	FITTING - barb (3/4 mpt)	1
	55-5018	NUT - fitting (3/4 mpt)	1
	99-9084	NAMEPLATE - arrow	4
4	91-193	PLATE - motor	2
5	98-3355	MOUNT - motor	2
6	67-1272	COIL - evaporator	1
	99-8963	BLOCK - air (neoprene, 5 wide x 62 lg)	1
	55-2969	SCREW - coil	2
	55-4954	NUT	6
	55-2958	FLATWASHER	12
	99-5966	STRIP (neoprene, 1 wide x 50 ft lg)	A/R
	99-9168	ANGLE - coil support	2
7	99-8964	BRACKET - evaporator drain	1
8	98-2985	PAN - drain	1
	55-1587	SCREW - pan	8
	55-3059	NUT - captive	4
	55-4953	NUT	4
	55-2086	FLATWASHER	8
	55-1800	LOCKWASHER	4
9	98-3354	SCREEN - evaporator	1
	98-4765	SUPPORT - screen/shroud	1
10	33-1725	GASKET - shroud	2
11	91-686	RETAINER - gasket	2





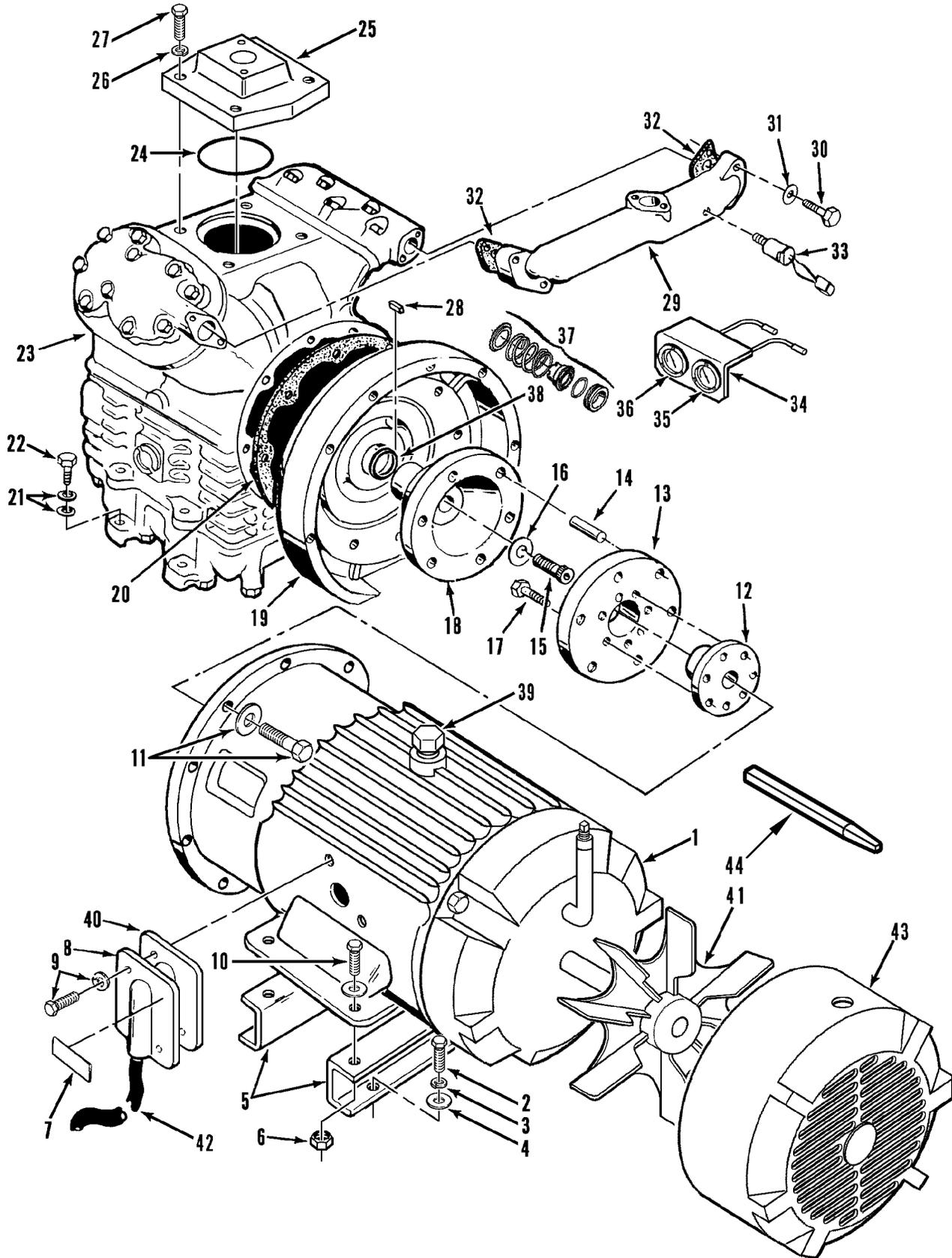
REF	PART#	DESCRIPTION	QTY
1	104-515	MOTOR - compressor drive (10hp, incl 40, 46)	1
	77-1895	• BEARING (drive end)	1
	77-1896	• BEARING (opposite drive end)	1
2	55-3089	SCREW - bracket to frame	4
3	55-2959	LOCKWASHER	4
4	55-4727	FLATWASHER	4
5	91-4076	BRACKET - motor	2
6	55-4955	NUT - motor	4
7	99-6908	NAMEPLATE - Voltage	1
8	91-1340	PLATE - cover	1
9	55-3021	SCREW - plate	2
	55-2086	FLATWASHER	2
	55-1800	LOCKWASHER	2
	55-2993	LOCKWASHER (internal tooth)	1
10	55-2961	SCREW - motor	4
	55-2641	FLATWASHER	8
11	55-2683	SCREW - motor to compressor	6
	55-2363	LOCKWASHER	6
12	77-1002	HUB	1
13	77-1286	PLATE - drive coupling	1
14	55-1123	• PIN - dowel	6
15	55-4316	SCREW - coupling to compressor	1
16	77-2498	SPACER	1
17	55-3675	SCREW - plate to motor	3
	55-1800	LOCKWASHER	3
18	77-809	COUPLING - compressor drive	1
	77-2856	• BUSHING - coupling	6
19	22-693	HOUSING - drive coupling	1
	55-878	SCREW - housing	9
	55-896	FLATWASHER	9
20	33-2513	GASKET - housing to compressor	1
21	55-2959	LOCKWASHER	4
	55-4727	FLATWASHER	4
22	55-2969	SCREW - compressor	4
23	102-513	COMPRESSOR - X426 (complete ASQ)	1
	102-919	COMPRESSOR - X426 (see 231C3)	1
	102-514	COMPRESSOR - X430 (complete, ASQ)	1
	102-918	COMPRESSOR - X430 (see 242F6)	1
24	33-1221	O-RING	1
25	22-711	ADAPTER - compressor suction	1
26	55-2641	FLATWASHER	4
27	55-2683	SCREW - adapter	4





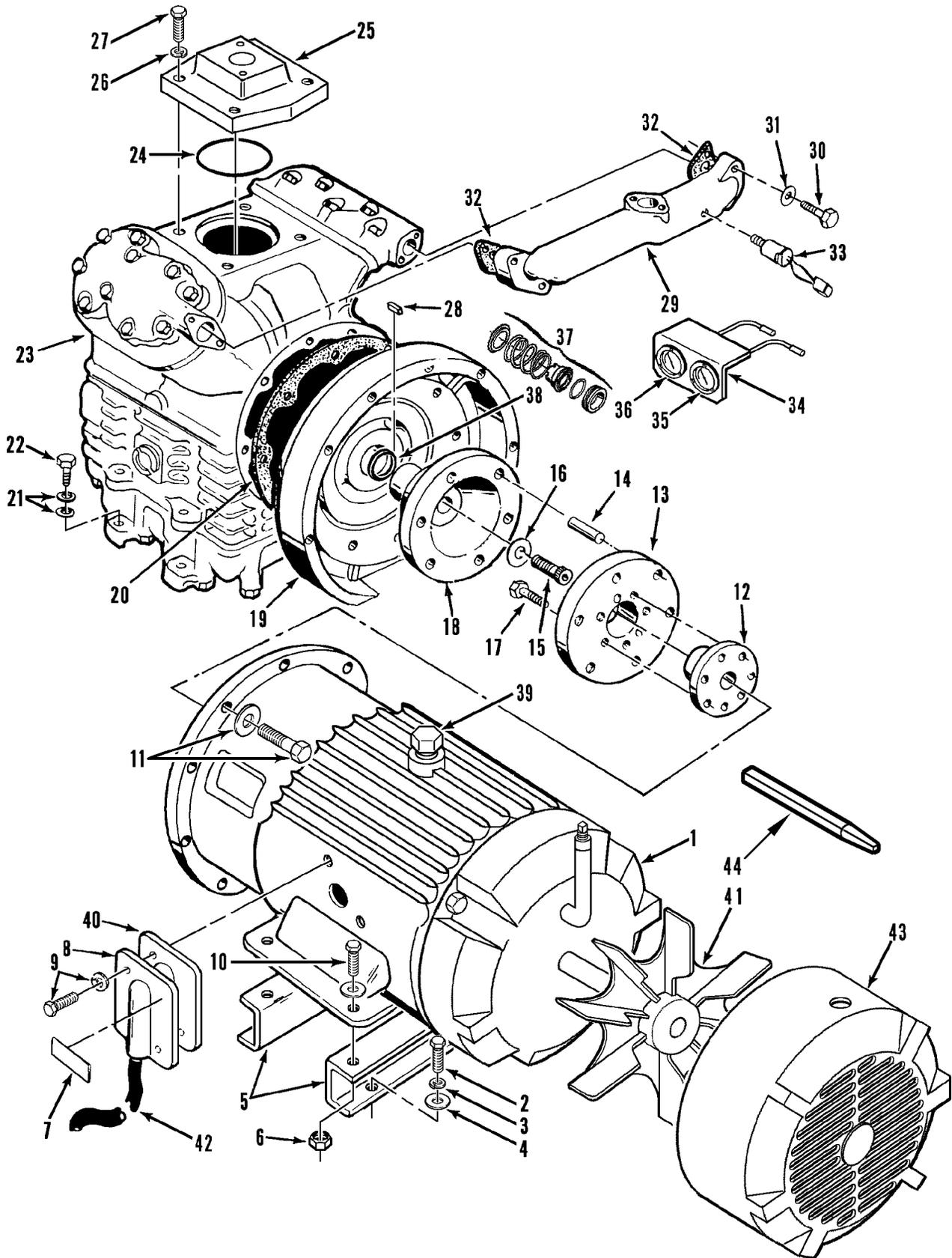
REF	PART#	DESCRIPTION	QTY
28	55-9024	KEY - crankshaft	1
29	22-750	MANIFOLD - discharge (X426)	1
	22-782	MANIFOLD - discharge (X430)	1
30	55-6822	SCREW - manifold	4
31	55-6804	WASHER - sealing	4
32	33-2805	GASKET - manifold	2
33	41-1626	SWITCH - hpco	1
34	55-2273	TEE - valve	1
35	11-5513	VALVE	1
	55-1983	• CAP - valve	1
	33-768	GASKET - flare	1
36	66-5755	GAUGE - compound	1
37	99-9232	BRACKET - gauge	1
	55-2991	SCREW - bracket	2
	55-2001	FLATWASHER	4
	55-4560	NUT	2
38	55-3050	ELBOW - gauge	2
39	66-3694	TUBE - gauge	1
40	33-2446	GASKET - cover plate	1
41	66-4401	GAUGE - high pressure	1
	66-4542	FITTING - gauge	1
	22-1100	SEAL - compressor crankshaft	1
44	33-2120	SEAL - oil	1
45	91-3532	HOSE - pvc	1
46	77-2156	FAN - motor	1
47	55-3505	SCREW - motor	1

**CAUTION:** Both discharge manifold gaskets MUST be the same part number (thickness).





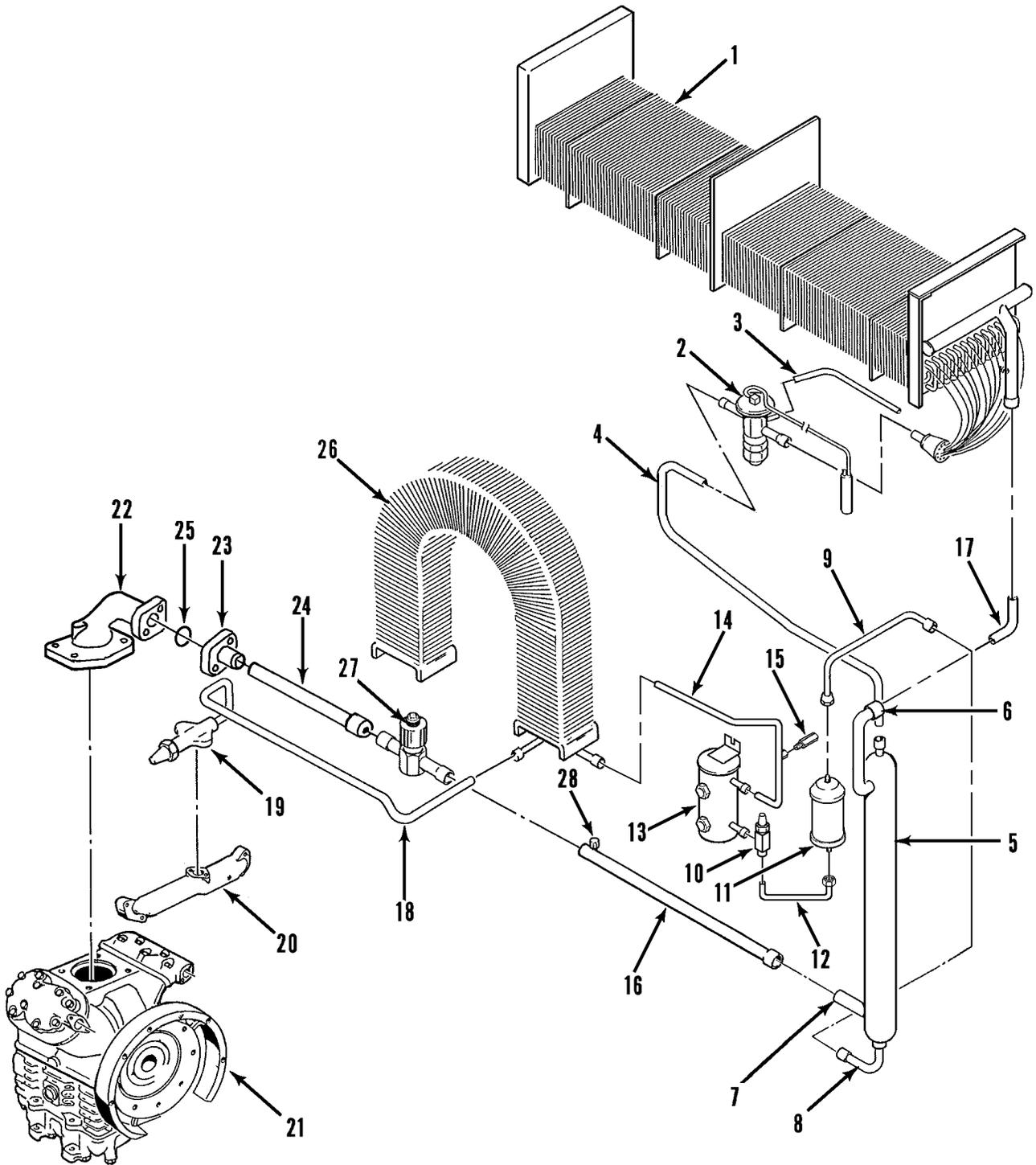
REF	PART#	DESCRIPTION	QTY
1	104-515	MOTOR - compressor drive (10hp, incl 39, 40, 41, 43)	1
	77-1895	• BEARING (drive end)	1
	77-1896	• BEARING (opposite drive end)	1
2	55-3089	SCREW - bracket to frame	4
3	55-2959	LOCKWASHER	4
4	55-4727	FLATWASHER	4
5	91-4076	BRACKET - motor	2
6	55-4955	NUT - motor	4
7	99-6908	NAMEPLATE - Voltage	1
8	91-1340	PLATE - cover	1
9	55-3021	SCREW - plate	2
	55-2086	FLATWASHER	2
	55-1800	LOCKWASHER	2
	55-2993	LOCKWASHER (internal tooth)	1
10	55-2961	SCREW - motor	4
	55-2641	FLATWASHER	8
11	55-2683	SCREW - motor to compressor	6
	55-2363	LOCKWASHER	6
	203-392	SEALER - antiseize	A/R
12	77-1002	HUB	1
13	77-1286	PLATE - drive coupling	1
14	55-1123	• PIN - dowel	6
15	55-4316	SCREW - coupling to compressor	1
16	77-2498	SPACER	1
17	55-3675	SCREW - plate to motor	3
	55-1800	LOCKWASHER	3
18	77-809	COUPLING - compressor drive	1
	77-2856	• BUSHING - coupling	6
19	22-693	HOUSING - drive coupling	1
	55-878	SCREW - housing	9
	55-896	FLATWASHER	9
20	33-2513	GASKET - housing to compressor	1
21	55-2959	LOCKWASHER	4
	55-4727	FLATWASHER	4
22	55-2969	SCREW - compressor	4
23	102-520	COMPRESSOR - X430 (complete, ASQ)	1
	102-918	COMPRESSOR - X430 (see 242F6)	1
24	33-1221	O-RING	1
25	22-836	ADAPTER - suction valve	1
26	55-2641	FLATWASHER	4
27	55-2683	SCREW - adapter	4
28	55-9024	KEY - crankshaft	1





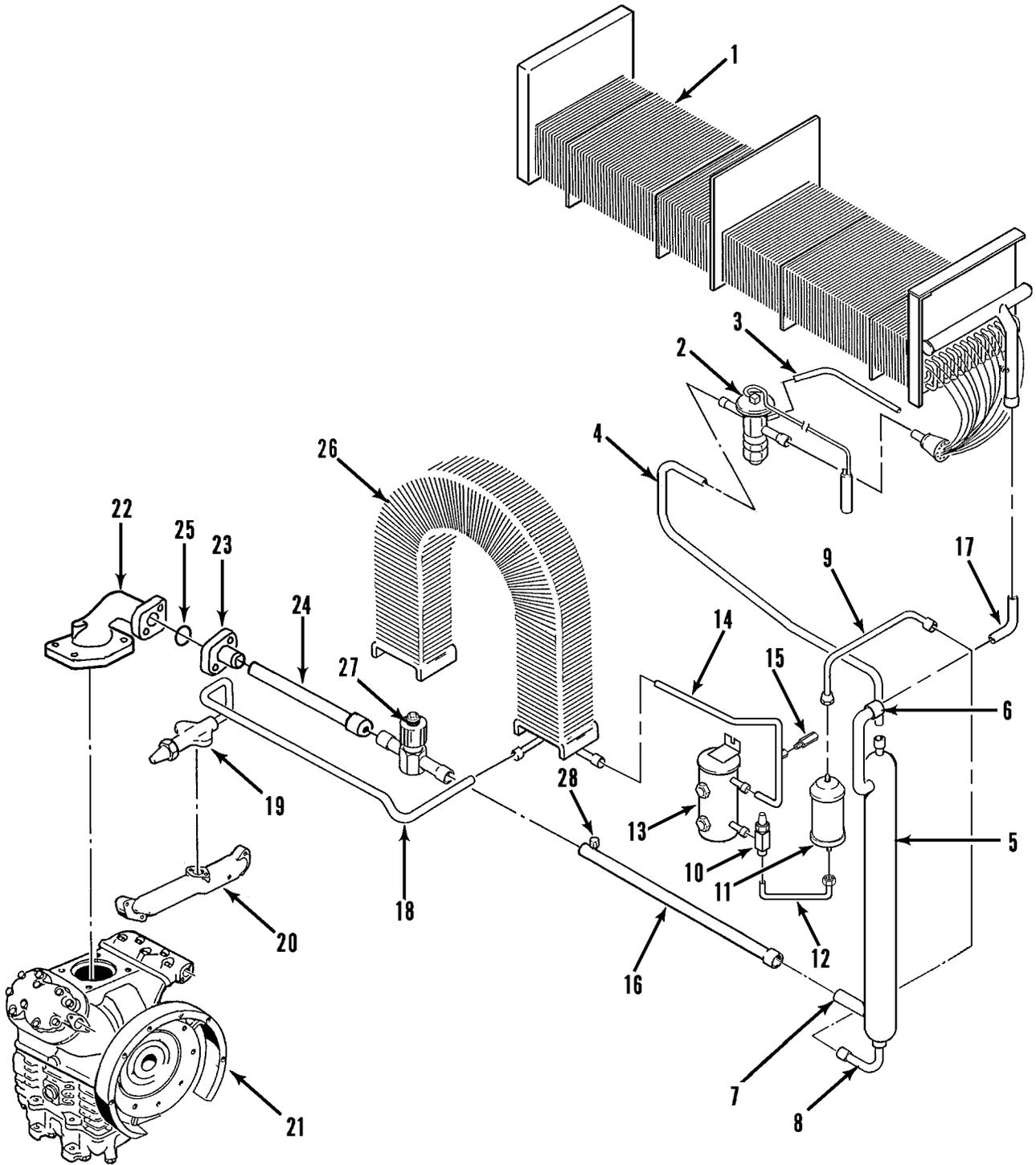
REF	PART#	DESCRIPTION	QTY
29	22-782	MANIFOLD - discharge (X430)	1
30	55-6822	SCREW - manifold	4
31	55-6804	WASHER - sealing	4
32	33-2805	GASKET - manifold	2
33	41-1626	SWITCH - hpco	1
34	91-5001	BRACKET - gauge	1
	55-2991	SCREW - bracket	2
	55-2001	FLATWASHER	4
	55-4560	NUT (stop)	2
35	66-6998	GAUGE - compound	1
	55-2991	SCREW - gauge	6
	55-2001	FLATWASHER	6
	55-4560	NUT	6
36	66-6999	GAUGE - high pressure	1
37	22-1100	SEAL - crankshaft	1
38	33-2120	SEAL - oil	1
39	55-3505	SCREW - motor	1
40	33-2446	GASKET - cover plate	1
41	77-2156	FAN - motor	1
42	91-3532	HOSE (pvc)	1
43	77-2226	COVER - fan	1
44	204-972	TOOL - keyway alignment	1

**CAUTION:** Both discharge manifold gaskets must be the same part number (thickness).





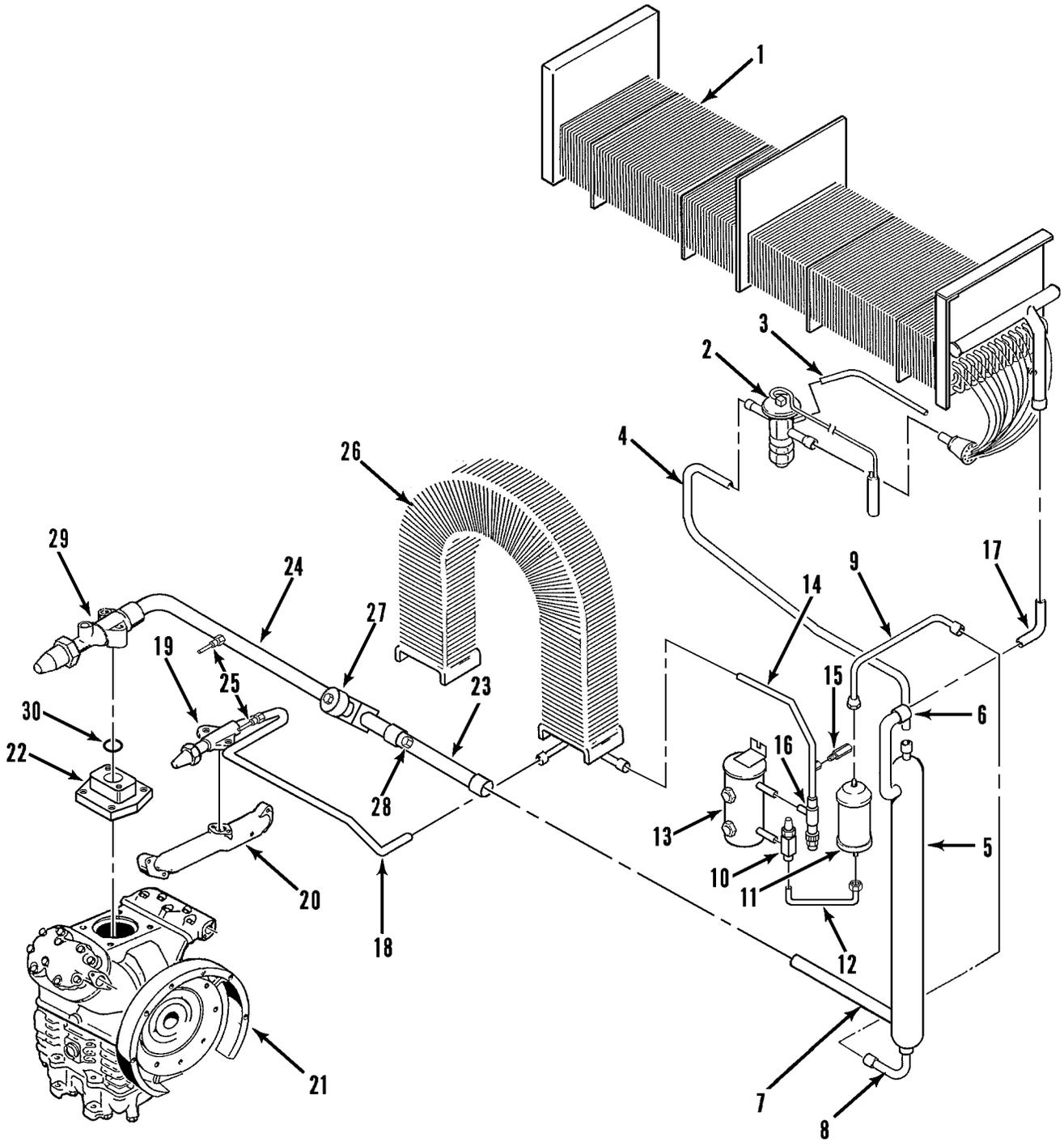
REF	PART#	DESCRIPTION	QTY
1	67-1272	COIL - evaporator	1
2	66-5365	VALVE - expansion	1
	66-633	• ELEMENT - power	1
	66-9378	• SCREEN - inlet	1
	91-1874	BRACKET - valve	1
	55-1587	SCREW - bracket	2
	55-2086	FLATWASHER	2
	55-5211	U-BOLT - valve	1
	55-2001	FLATWASHER - U-bolt	2
	55-4560	NUT - u-bolt	2
3	66-5367	TUBE - equalizer	1
4	66-5366	TUBE - exchanger to expansion valve	1
5	67-799	HEAT EXCHANGER (incl 6, 7, 8, M9)	1
	67-1073	HEAT EXCHANGER (incl 6, 7, 8, M9A)	1
	99-8949	CLAMP - heat exchanger	2
	55-3049	SCREW - clamp	4
	55-2001	FLATWASHER	4
6	66-4537	TUBE - exchanger to coil	1
7	66-4465	TUBE - exchanger to modulation (suction, M9)	1
	66-6403	TUBE - suction (exchanger to modulation, M9A)	1
8	66-4466	TUBE - liquid	1
9	66-4589	TUBE - dehydrator to exchanger	1
10	66-5747	VALVE - dehydrator inlet	1
	66-2170	• CAP - valve	1
11	66-9015	DEHYDRATOR	1
	55-2070	GASKET - flare nut	2
	55-4390	HANGER - dehydrator	1
	55-1587	SCREW - hanger	1
	55-2086	FLATWASHER	2
	55-4953	NUT	1
	55-3121	SCREW - dehydrator	1
	55-2086	FLATWASHER	1
	55-1800	LOCKWASHER	1
12	66-5746	TUBE - receiver to dehydrator	1
	55-302	NUT - flare	1
13	67-975	TANK - receiver (M9)	1
	N/A	TANK - receiver (see note)	1
	67-1342	TANK - receiver (M9A)	1
	66-6870	• INDICATOR - liquid (for 67-974 & 67-975)	2
	66-7420	• INDICATOR - liquid (for 67-1342)	2
	203-393	• SEALER - thread	A/R





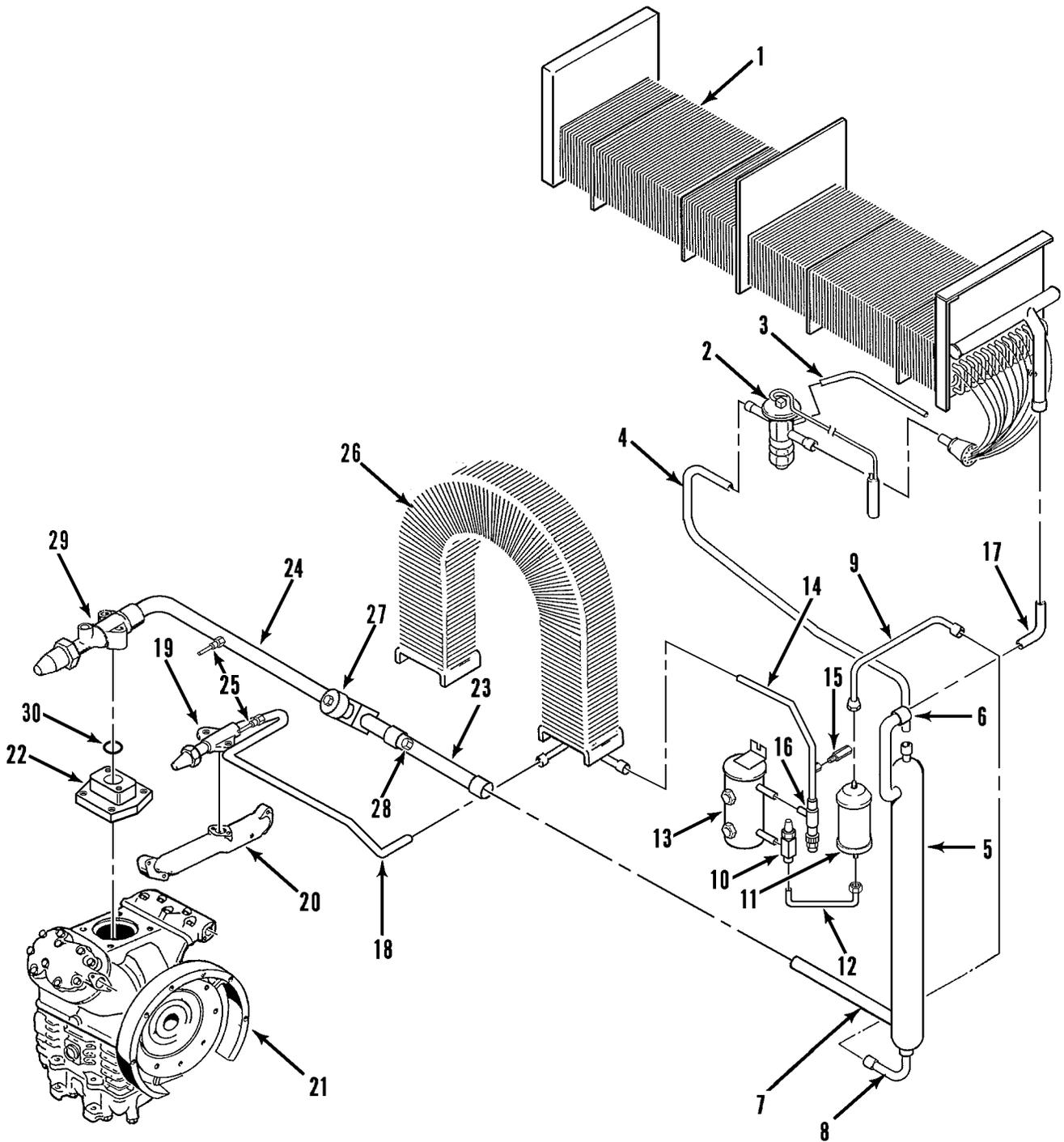
REF	PART#	DESCRIPTION	QTY
	55-1587	SCREW - tank	2
	55-1800	LOCKWASHER (1/4)	2
	55-2086	FLATWASHER (1/4)	2
14	66-5745	TUBE - condenser to receiver tank	1
	66-3295	• FITTING	1
15	66-7392	VALVE - relief	1
	33-1015	O-RING - relief valve	1
16	66-4791	TUBE - exchanger to modulation (M9)	1
	66-6143	TUBE - exchanger to modulation (M9A)	1
	66-3615	• FITTING - saddle	1
17	66-4538	TUBE - exchanger to coil	1
18	66-4520	TUBE - valve to coil	1
	91-2455	BRACKET - tube support	1
	55-4127	CLAMP - tube	1
19	66-3942	VALVE - service (discharge, see 102C4)	1
20	22-750	MANIFOLD - discharge (X426)	1
	22-782	MANIFOLD - discharge (X430)	1
	55-6822	BOLT - manifold	4
	55-6804	FLATWASHER - sealing	4
21	102-919	COMPRESSOR - X426 (see 231C3)	1
	102-918	COMPRESSOR - X430 (see 242F6)	1
22	22-711	ADAPTER - compressor suction	1
	33-1221	O-RING	1
	55-2683	SCREW - adapter	4
	55-2641	FLATWASHER (3/8)	4
23	66-2171	FLANGE	1
	55-3486	SCREW - flange	2
	55-2159	LOCKWASHER	2
	55-2173	FLATWASHER	2
24	66-5751	TUBE - suction	1
	66-5752	FITTING - header	1
25	33-920	O-RING - suction	1
26	67-1392	COIL - condenser	1
27	66-7793	VALVE - modulation	1
	66-7789	• VALVE (see 123A8)	1
	44-5838	• CONNECTOR - tower (2 pin)	1
	44-5884	• TERMINAL - female (18-20 ga)	2
	44-5885	• SEAL - cable (green, 18-22 ga)	2
28	11-2886	VALVE - pressure	1
	55-5672	• CAP - valve	1

**NOTE:** Receiver tank 67-974 has been replaced with 67-1342 after 12-95.



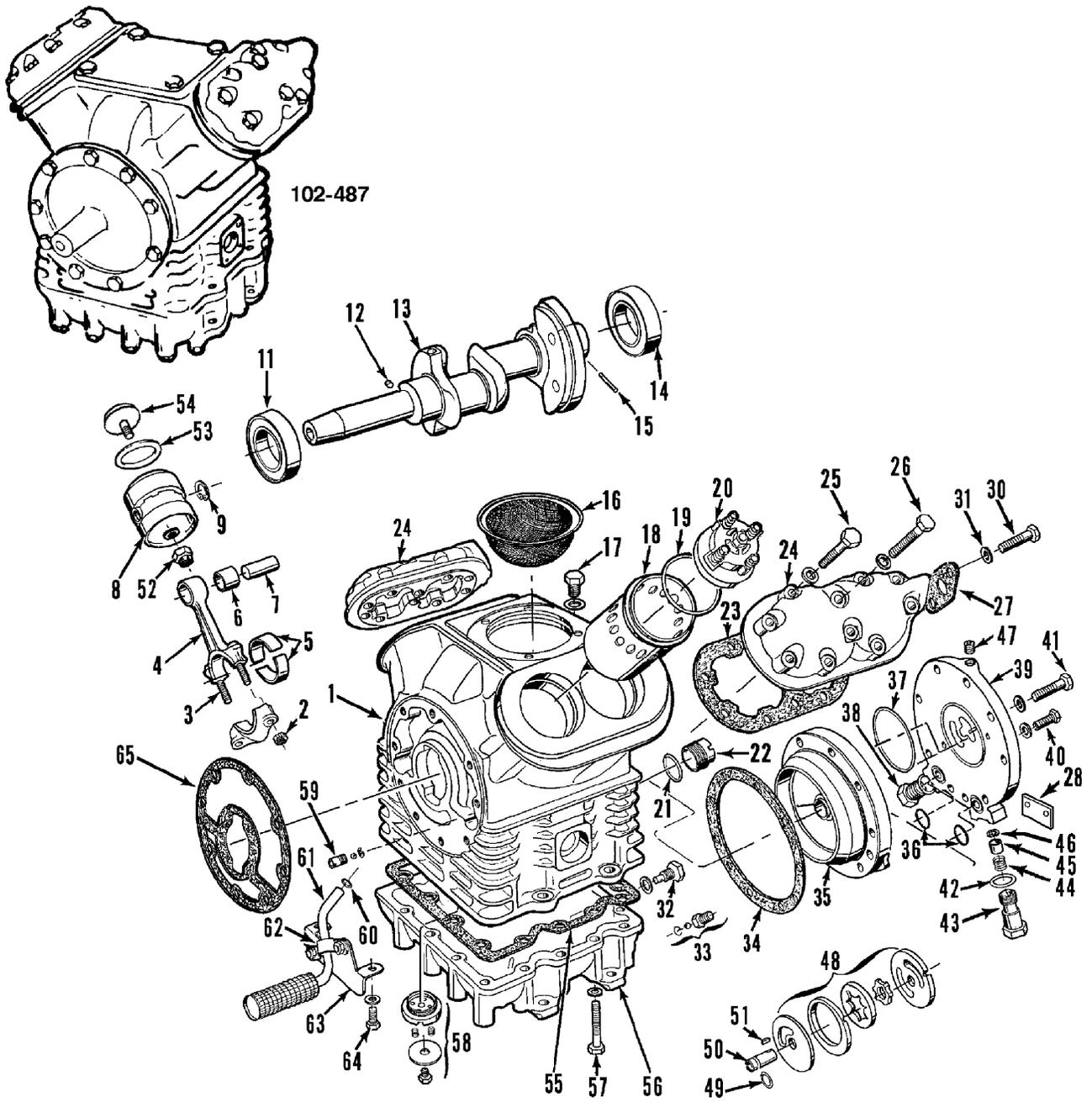


REF	PART#	DESCRIPTION	QTY
1	67-1272	COIL - evaporator	1
2	66-5365	VALVE - expansion	1
	66-633	• ELEMENT - power	1
	66-9378	• SCREEN - inlet	1
	91-1874	BRACKET - valve	1
	55-1587	SCREW - bracket	2
	55-2086	FLATWASHER	2
	55-5211	U-BOLT - valve	1
	55-2001	FLATWASHER - U-bolt	2
	55-4560	NUT - u-bolt	2
3	66-5367	TUBE - equalizer	1
4	66-5366	TUBE - exchanger to expansion valve	1
5	67-1073	HEAT EXCHANGER (complete, incl 6, 7, 8)	1
	99-8949	CLAMP - heat exchanger	2
	55-5639	SCREW - clamp	4
6	66-4537	TUBE - exchanger to coil	1
7	66-6403	TUBE - suction (exchanger to modulation)	1
8	66-4466	TUBE - liquid	1
9	66-4589	TUBE - dehydrator to exchanger	1
10	66-5747	VALVE - dehydrator inlet	1
	66-2170	• CAP - valve	1
11	66-9015	DEHYDRATOR	1
	55-2070	GASKET - flare nut	2
	55-4390	HANGER - dehydrator	1
	55-1587	SCREW - hanger	1
	55-2086	FLATWASHER	2
	55-4953	NUT	1
	55-3121	SCREW - dehydrator	1
	55-2086	FLATWASHER	1
	55-1800	LOCKWASHER	1
12	66-5746	TUBE - receiver to dehydrator	1
	55-302	NUT - flare	1
13	67-1149	TANK - receiver	1
	66-6870	• INDICATOR - liquid	2
	203-393	SEALER - thread	A/R
	55-1587	SCREW - tank	2
	55-1800	LOCKWASHER	2
	55-2086	FLATWASHER	2
14	66-7001	TUBE - condenser to receiver tank	1
	66-3295	• FITTING	1
15	66-7392	VALVE - relief	1
	33-1015	O-RING - relief valve	1



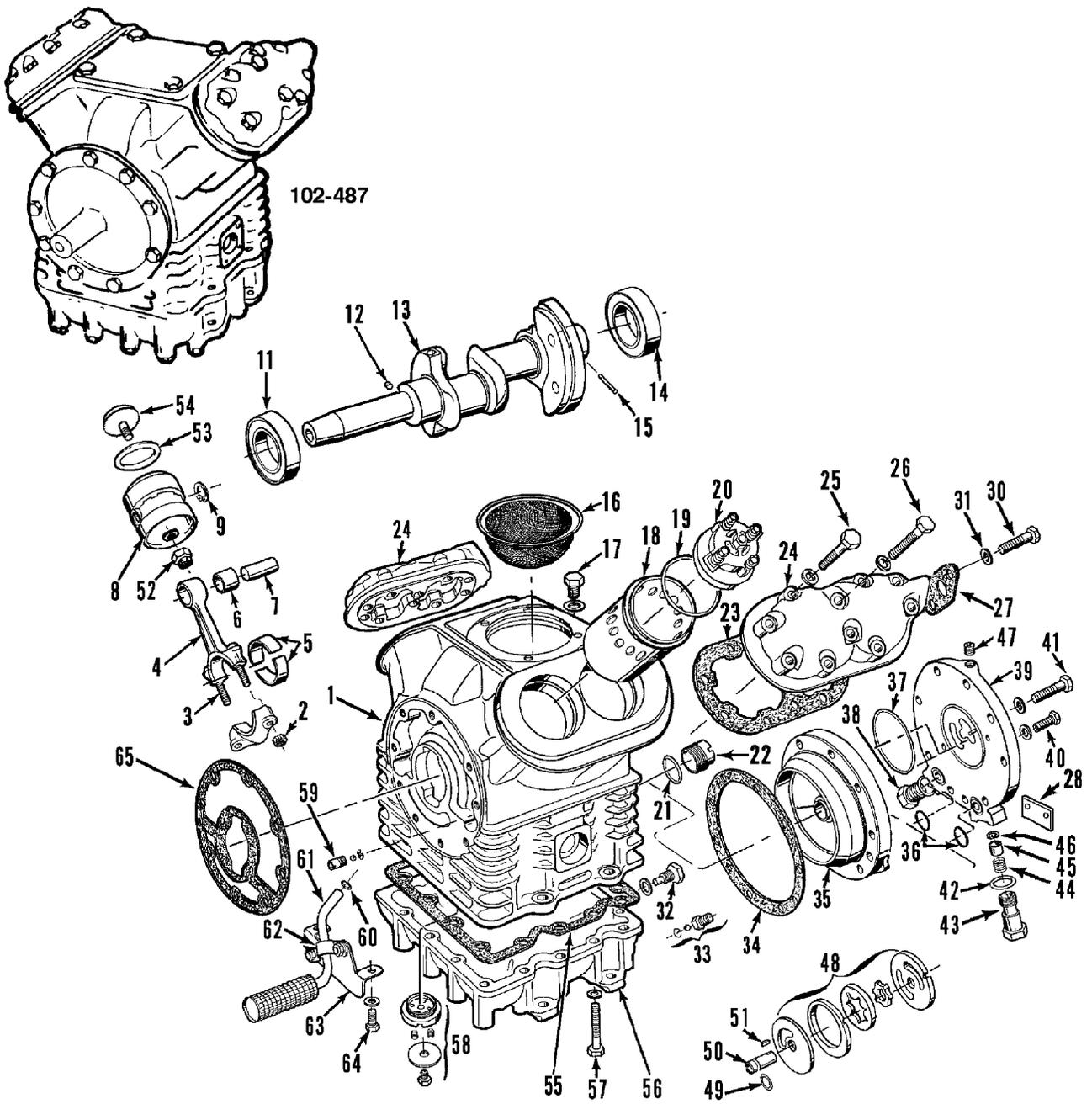


REF	PART#	DESCRIPTION	QTY
16	66-7002	VALVE - receiver inlet	1
17	66-4538	TUBE - exchanger to coil	1
18	66-7005	TUBE - valve to coil	1
	91-2455	BRACKET - tube support	1
	55-4127	CLAMP - tube	1
19	66-3942	VALVE - service (discharge, see 102C4)	1
20	22-782	MANIFOLD - discharge (X430)	1
	55-6822	BOLT - manifold	4
	55-6804	FLATWASHER - sealing	4
21	102-918	COMPRESSOR - X430 (see 242F6)	1
22	22-836	ADAPTER - suction valve	1
23	66-6143	TUBE - exchanger to modulating	1
	66-3615	• FITTING - saddle	1
24	66-7003	TUBE - suction	1
	66-5752	FITTING - header	1
25	66-7004	TUBE - fitting to gauge	2
26	67-1392	COIL - condenser	1
27	66-7793	VALVE - modulation (assembly)	1
	66-7789	• VALVE (see 123A8)	1
	44-5838	• CONNECTOR - tower (2 pin)	1
	44-5884	• TERMINAL - female (18-20 ga)	2
	44-5885	• SEAL - cable (green, 18-22 ga)	2
28	11-2886	VALVE - pressure	1
	55-5672	• CAP - valve	1
	11-7777	• CORE - valve	1
29	66-5318	VALVE - service (suction, see 112F3)	1
30	33-230	O-RING - suction valve (1.875 id)	1



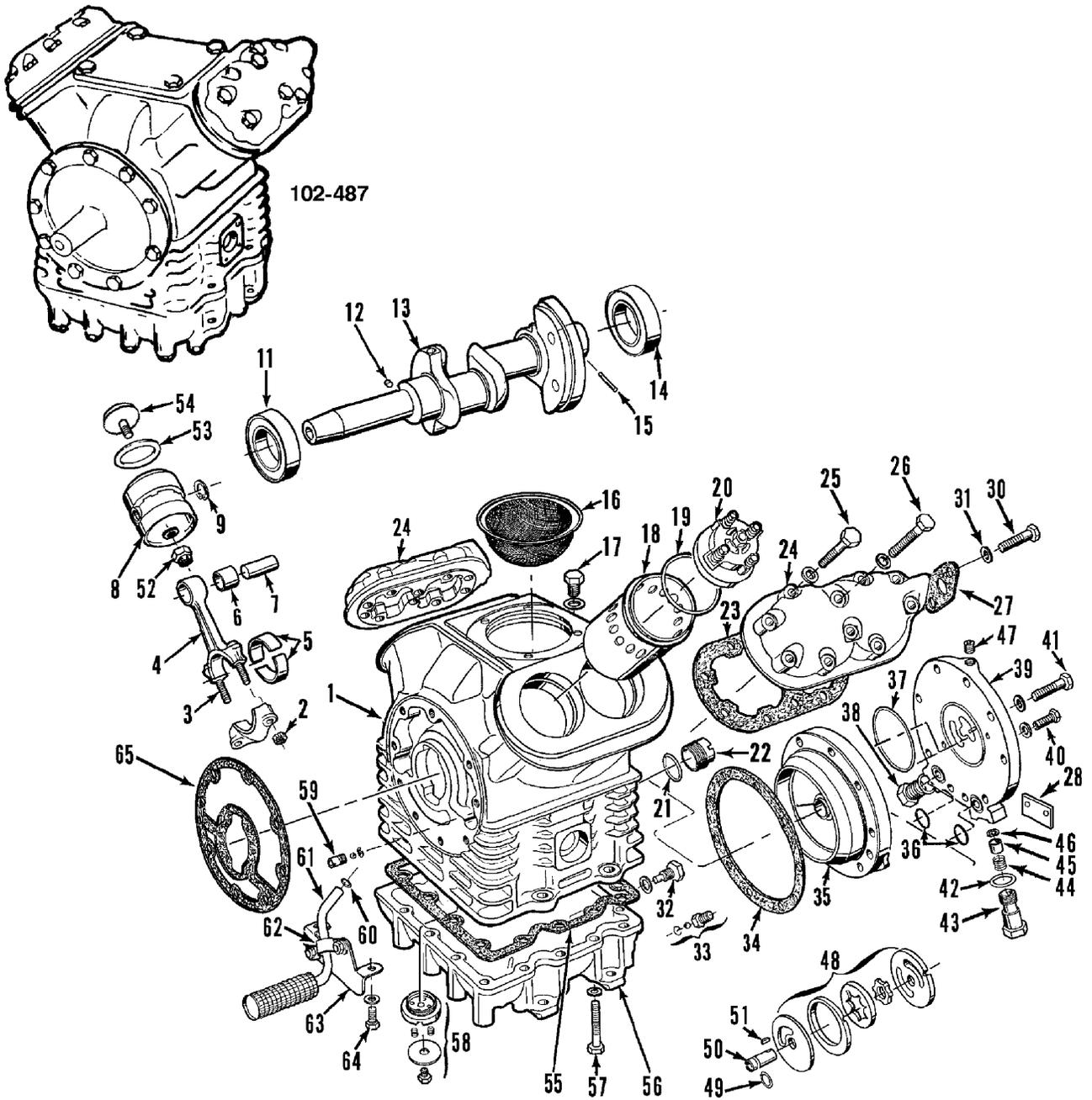


REF	PART#	DESCRIPTION	QTY
	102-497	COMPRESSOR - X426	1
1	23-122	• BODY - compressor	1
2	51-115	• NUT (12 point)	2
3	55-5062	• BOLT - connecting rod	2
4	22-639	• ROD - connecting (incl 2, 3 & 6)	4
5	22-1246	• BEARING SET - connecting rod (standard)	4
	22-1264	• BEARING SET (0.005 us)	4
	22-1265	• BEARING SET (0.010 us)	4
	22-1266	• BEARING SET (0.020 us)	4
	22-1267	• BEARING SET (0.030 us)	4
6	11-475	• BUSHING - piston pin	4
7	NSS	• PIN - piston	4
8	22-849	• PISTON (incl 7, 9, 52, 53, & 54)	4
9	55-2122	• RING - retaining	8
10	55-9024	• KEY - woodruff	1
11	77-167	• BEARING - ball	1
12	22-763	• PLUG - metering	1
13	22-586	• CRANKSHAFT	1
	55-4720	• PLUG	3
	55-1409	• RIVET - counterweight	4
14	77-169	• BEARING - ball	1
15	55-4213	• PIN - dowel	1
16	22-306	• SCREEN - suction	1
	33-1221	• O-RING	1
17	55-6750	• PLUG - oil fill	1
	33-1223	•• O-RING	1
18	22-297	• SLEEVE - cylinder	4
19	33-408	• O-RING	4
20	22-990	• PLATE - valve	4
21	33-822	• O-RING	1
22	22-350	• SIGHT GLASS	1
23	33-2552	• GASKET - compressor cylinder head	2
24	22-789	• HEAD - cylinder	2
25	55-6805	• SCREW (2 in lg)	12
26	55-6806	• SCREW (2-5/8 in lg)	8
	55-6804	• WASHER - sealing	20
	33-2019	• O-RING	20





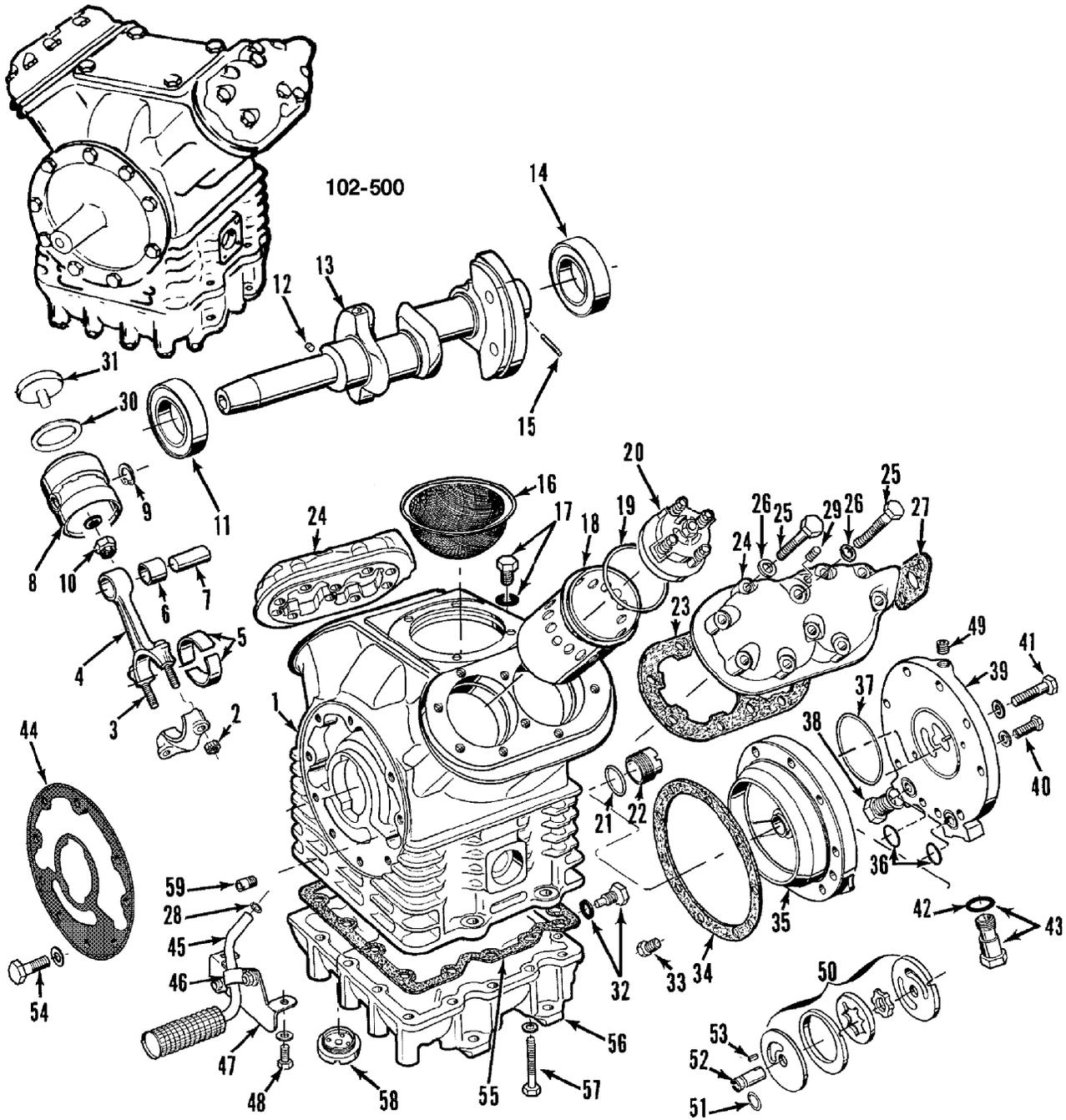
REF	PART#	DESCRIPTION	QTY
27	33-2805	• GASKET - manifold	2
28	99-4878	• NAMEPLATE - rotation	1
29	55-3364	• PLUG - pipe	1
30	55-6822	• SCREW - manifold	4
31	55-6804	• WASHER - sealing	4
32	55-6751	• PLUG - magnetic	1
	33-2095	•• O-RING	4
33	22-653	• VALVE - check	2
34	33-110	• GASKET - pump end	1
35	22-554	• HOUSING - pump	1
	22-1253	• HOUSING - pump (remanufactured)	1
	55-4210	• PIN - dowel	1
36	33-239	• O-RING	2
37	33-1175	• O-RING	1
38	55-6752	• PLUG - oil pump cover	1
	33-2095	•• O-RING	4
39	22-555	• COVER - pump	1
	55-4211	• PIN - dowel	1
40	55-681	• SCREW - cover to housing	2
	55-895	• FLATWASHER	2
41	55-183	• SCREW - pump	8
	55-896	• FLATWASHER	8
42	33-672	• O-RING	1
43	22-784	• REGULATOR (incl 42-46)	1
44	NSS	• SPRING	1
45	NSS	• PLUNGER	1
46	NSS	• RING - retaining	1
47	11-5513	• VALVE - elbow (90 deg)	1
	55-1983	• CAP - valve	1
48	22-1160	• PUMP - oil (incl 49, 50 & 51)	1
49	33-1223	• O-RING	1
50	22-1149	• SHAFT - oil pump	1
51	55-9760	• KEY - shaft	1
52	51-115	• NUT	1
	55-895	• FLATWASHER	1
53	NSS	• REED - piston	1
54	NSS	• HEAD - piston	1





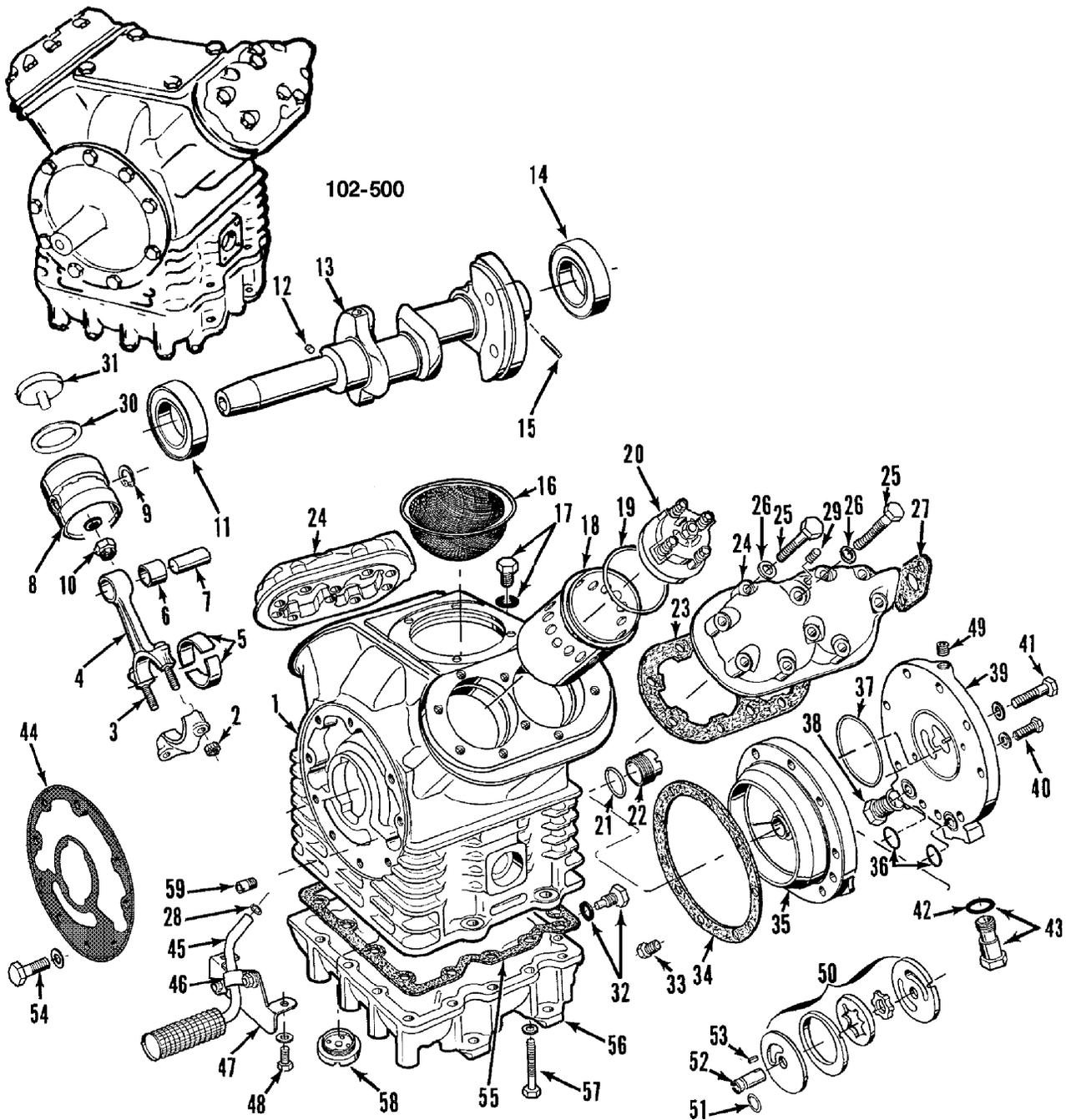
REF	PART#	DESCRIPTION	QTY
55	33-2515	• GASKET - oil sump	1
56	22-694	• SUMP - oil	1
57	55-1417	• SCREW - oil sump	16
	55-896	• FLATWASHER	16
58	22-787	• VALVE - check (oil return)	1
59	22-568	• VALVE - check	2
60	33-2205	• O-RING	1
61	22-611	• SCREEN - oil pickup	1
62	99-4848	• CLAMP - screen	1
	55-366	• LOCKWASHER	23
	55-291	• NUT	2
63	99-4849	• BRACKET - screen	1
64	55-165	• SCREW - bracket	2
	55-366	• LOCKWASHER	2
65	33-2513	• GASKET - drive end	1
	67-404	OIL - synthetic	1
	67-426	OIL - petroleum	1
	30-243	KIT - gasket	1
	203-346	KIT - acid test	1

**CAUTION:** Both discharge manifold gaskets MUST be the same part number (thickness).



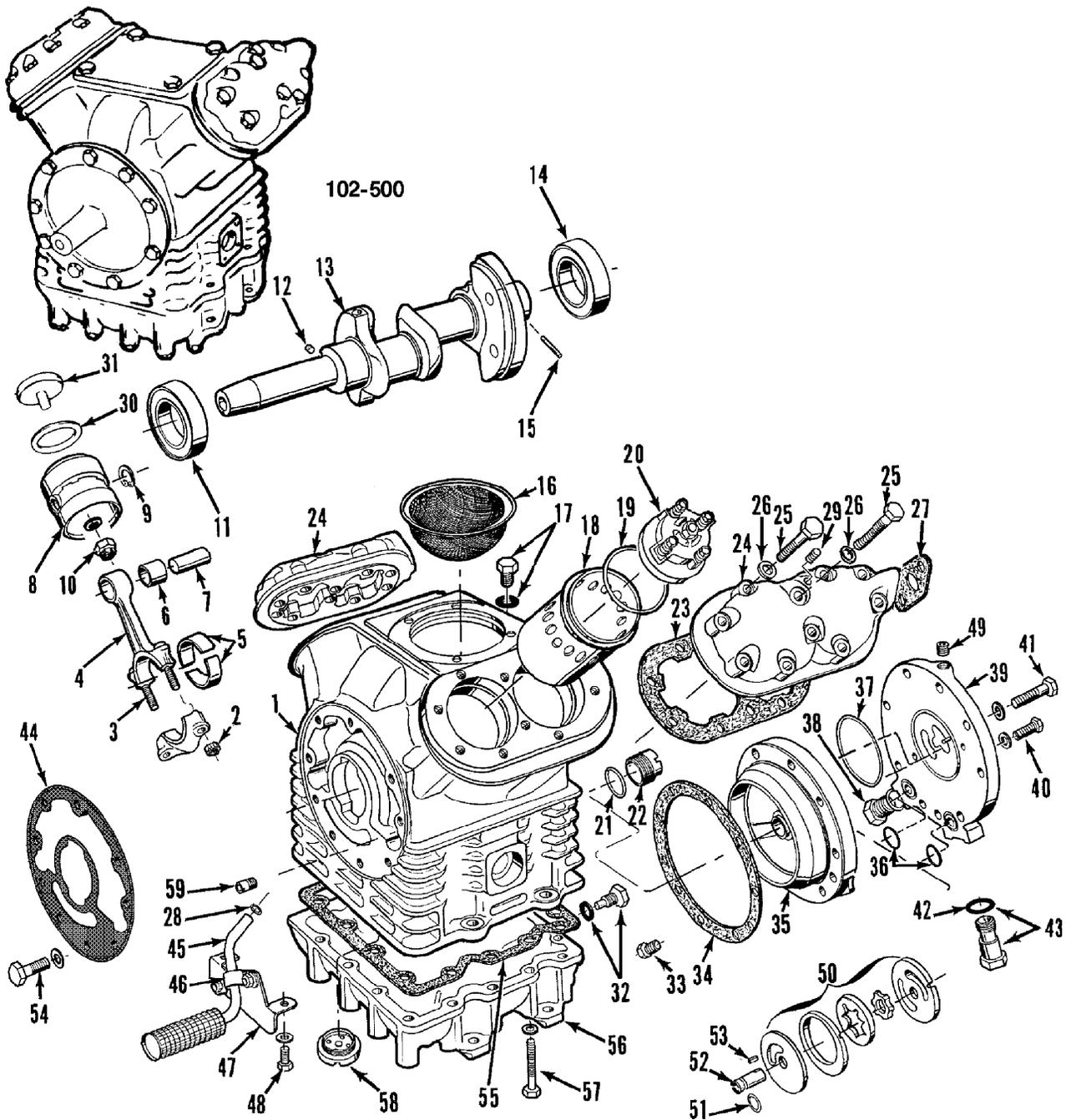


REF	PART#	DESCRIPTION	QTY
	102-500	COMPRESSOR - X430 (w/ regular heads, R12, R22 or R502)	1
1	23-129	• BODY - compressor	1
2	51-115	• NUT (12 point)	2
3	55-5062	• BOLT - connecting rod	2
4	22-639	• ROD - connecting (incl 2, 3 & 6)	4
5	22-1246	• BEARING SET - connecting rod (standard)	4
	22-1264	• BEARING SET (0.005 us)	4
	22-1265	• BEARING SET (0.010 us)	4
	22-1266	• BEARING SET (0.020 us)	4
	22-1267	• BEARING SET (0.030 us)	4
6	11-475	• BUSHING - connecting rod	4
7	NSS	• PIN - piston	4
8	22-850	• PISTON (incl 7, 9, 10, 30, 31)	4
9	55-2122	• RING - snap	8
10	51-115	• NUT	4
	55-895	• WASHER - compressor	4
11	77-167	• BEARING (drive end)	1
12	22-123	• PLUG - oil metering	1
13	22-655	• CRANKSHAFT	1
	55-4720	•• PLUG	3
	55-1409	•• RIVET (steel)	4
14	77-169	• BEARING (pump end)	1
15	55-4213	• PIN - dowel	1
16	22-306	• SCREEN - suction	1
	33-1221	• O-RING	1
17	55-6750	• PLUG - oil fill	1
	33-1223	•• O-RING	1
18	22-656	• SLEEVE (X430)	4
19	33-408	• O-RING	4
20	22-990	• PLATE - valve	4
21	33-822	• O-RING	3
22	22-350	• SIGHT GLASS	3
23	33-2552	• GASKET - compressor cylinder head	2
24	22-789	• HEAD - cylinder	2
25	55-6805	• SCREW (2 in lg)	12
	55-6806	• SCREW (2-5/8 in lg)	8
26	55-6804	• WASHER - sealing	20





REF	PART#	DESCRIPTION	QTY
	33-2019	• O-RING	20
27	33-2805	• GASKET - manifold	2
28	33-2205	• O-RING	1
29	55-3364	• PLUG	1
30	NSS	• REED - piston	4
31	NSS	• HEAD - piston	4
32	55-6751	• PLUG - magnetic	1
	33-2095	•• O-RING	1
33	22-653	• VALVE - check	2
34	33-1549	• GASKET - oil pump	1
35	22-663	• HOUSING - oil pump	1
	822-663	• HOUSING - oil pump	1
	55-4210	•• PIN - dowel	1
36	33-239	• O-RING	2
37	33-1175	• O-RING	1
38	55-6752	• PLUG - oil pump	1
	33-2095	•• O-RING	1
39	22-555	• COVER - pump	1
	55-4211	• PIN - dowel	1
40	55-681	• SCREW - cover	2
	55-895	• FLATWASHER	2
41	55-183	• SCREW	8
	55-896	• WASHER - compressor	8
42	33-672	• O-RING	1
43	22-784	• REGULATOR - oil pressure	1
44	33-2513	• GASKET - drive plate	1
45	22-611	• SCREEN - oil pickup	1
46	99-4848	• CLAMP	1
	55-366	• LOCKWASHER	2
	55-291	• NUT	2
47	99-4849	• BRACKET	1
48	55-165	• SCREW	2
	55-366	• LOCKWASHER	2
49	11-5513	• VALVE (90 deg)	1
50	22-1160	• PUMP - oil	1
51	33-1223	•• O-RING	1
52	22-1149	•• SHAFT - oil pump	1

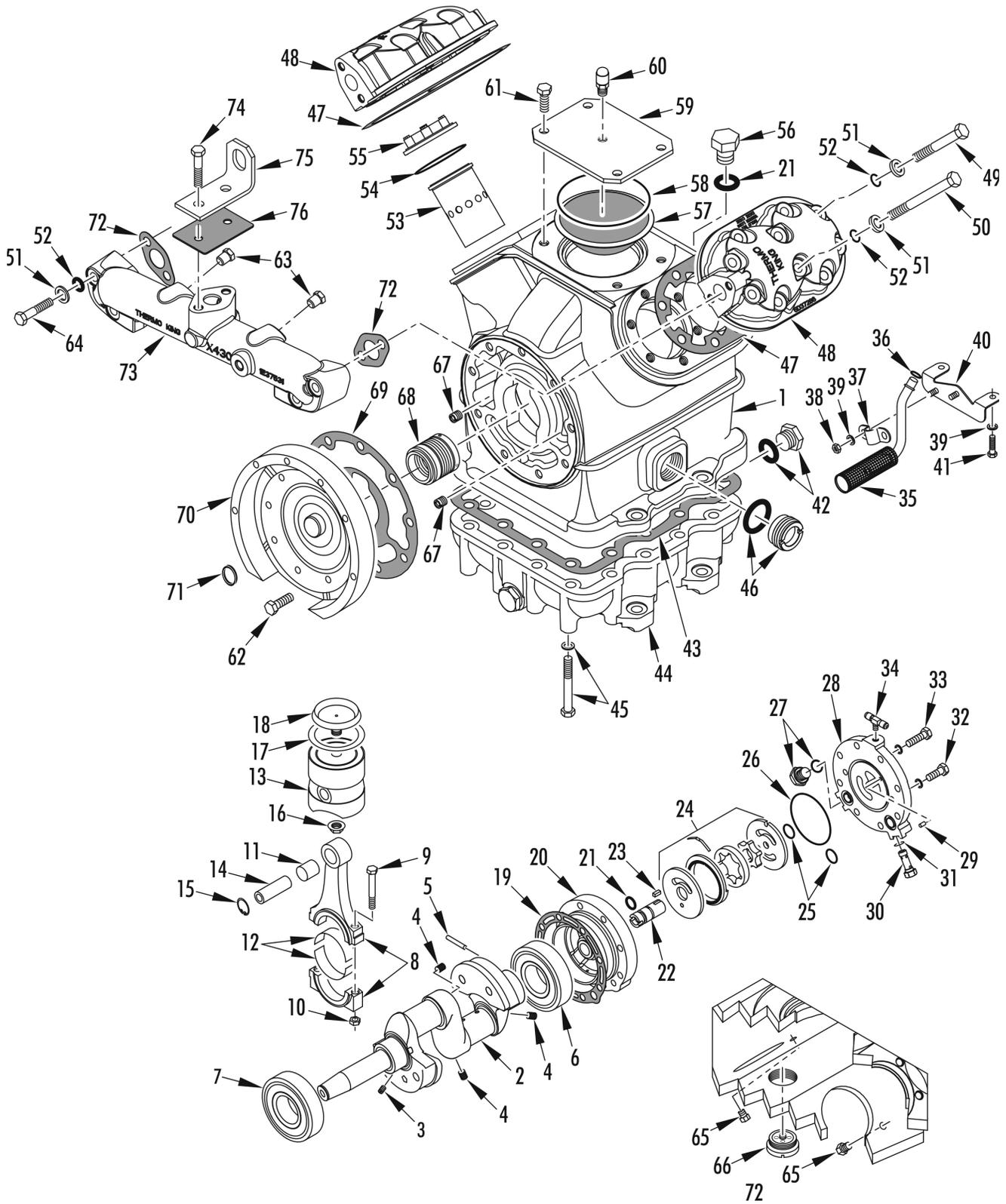




REF	PART#	DESCRIPTION	QTY
53	55-9760	• KEY	1
54	55-529	• SCREW - plate	9
	55-896	• FLATWASHER	9
55	33-2515	• GASKET - oil sump	1
56	22-694	• SUMP - oil	1
57	55-1417	• SCREW - oil sump	16
	55-896	• FLATWASHER	16
58	22-787	• VALVE - check (oil return)	1
59	22-568	• VALVE - check	2
	67-404	OIL - compressor	1
	30-243	KIT - gasket set	1
	203-346	KIT - acid test	1

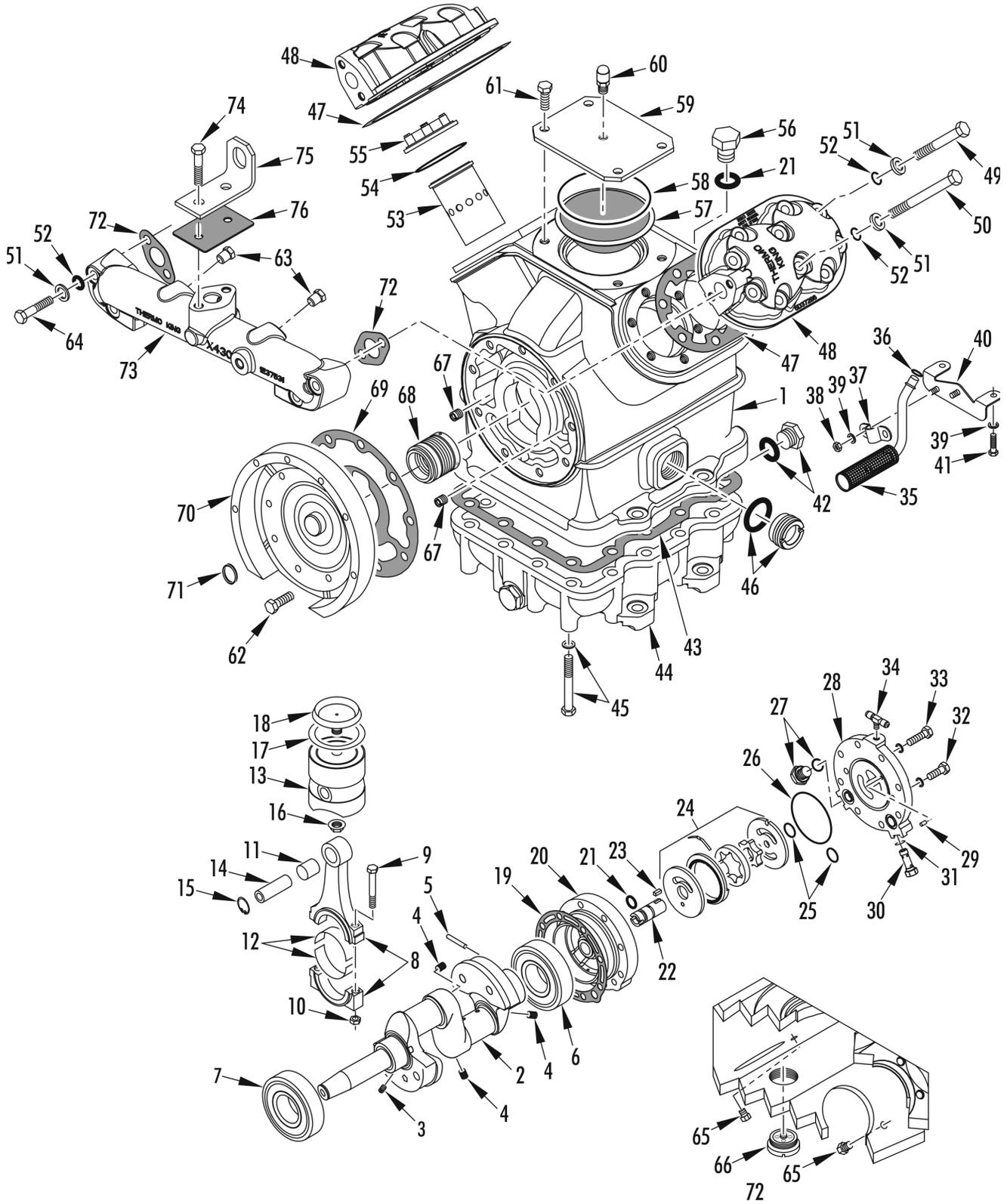
**NOTE:** The Heads on Compressor 102-500 do not have ports. If needed, use cylinder head 22-788 which has a 1/8 port.

**NOTE:** Both discharge manifold gaskets MUST be the same part number (thickness).





REF	PART#	DESCRIPTION	QTY
	102-918	COMPRESSOR - X430 C5 (CF)	1
	8102-918	COMPRESSOR - X430 C5 (CF, reman)	1
1	23-154	• BODY - compressor	1
2	22-655	• CRANKSHAFT	1
	55-1409	•• RIVET - counterweight	A/R
3	22-123	• PLUG - oil metering	1
4	55-4720	• PLUG	3
5	55-4213	• PIN - dowel	1
6	77-169	• BEARING - ball	1
7	77-2872	• BEARING - ball (C5)	1
8	22-639	• ROD - connecting	4
9	55-5062	•• BOLT - connecting rod	8
10	51-666	•• NUT (12 point)	8
11	11-475	•• BUSHING - piston pin	4
12	22-1246	• BEARING SET - connecting rod (standard)	1
	22-1264	• BEARING SET (0.005 us)	4
	22-1265	• BEARING SET (0.010 us)	4
	22-1266	• BEARING SET (0.020 us)	4
	22-1267	• BEARING SET (0.030 us)	4
13	22-850	• PISTON	4
14	NSS	•• PIN - piston	4
15	55-2122	•• RING - retaining	8
16	51-115	•• NUT	4
17	NSS	•• REED - piston	1
18	NSS	•• HEAD - piston	1
19	33-1549	• GASKET - pump end	1
20	22-1277	• HOUSING - oil pump	1
	55-4210	• PIN - dowel	1
21	33-1223	•• O-RING	2
22	22-1149	• SHAFT - oil pump	1
23	55-9760	• KEY - shaft	1
24	22-1160	• PUMP - oil (incl items 21-23)	1
25	33-239	• O-RING	2
26	33-1175	• O-RING	1
27	55-6752	• PLUG - oil pump cover	1
	33-2095	•• O-RING	1
28	22-1326	• COVER - pump	1
29	55-4211	• PIN - dowel	1



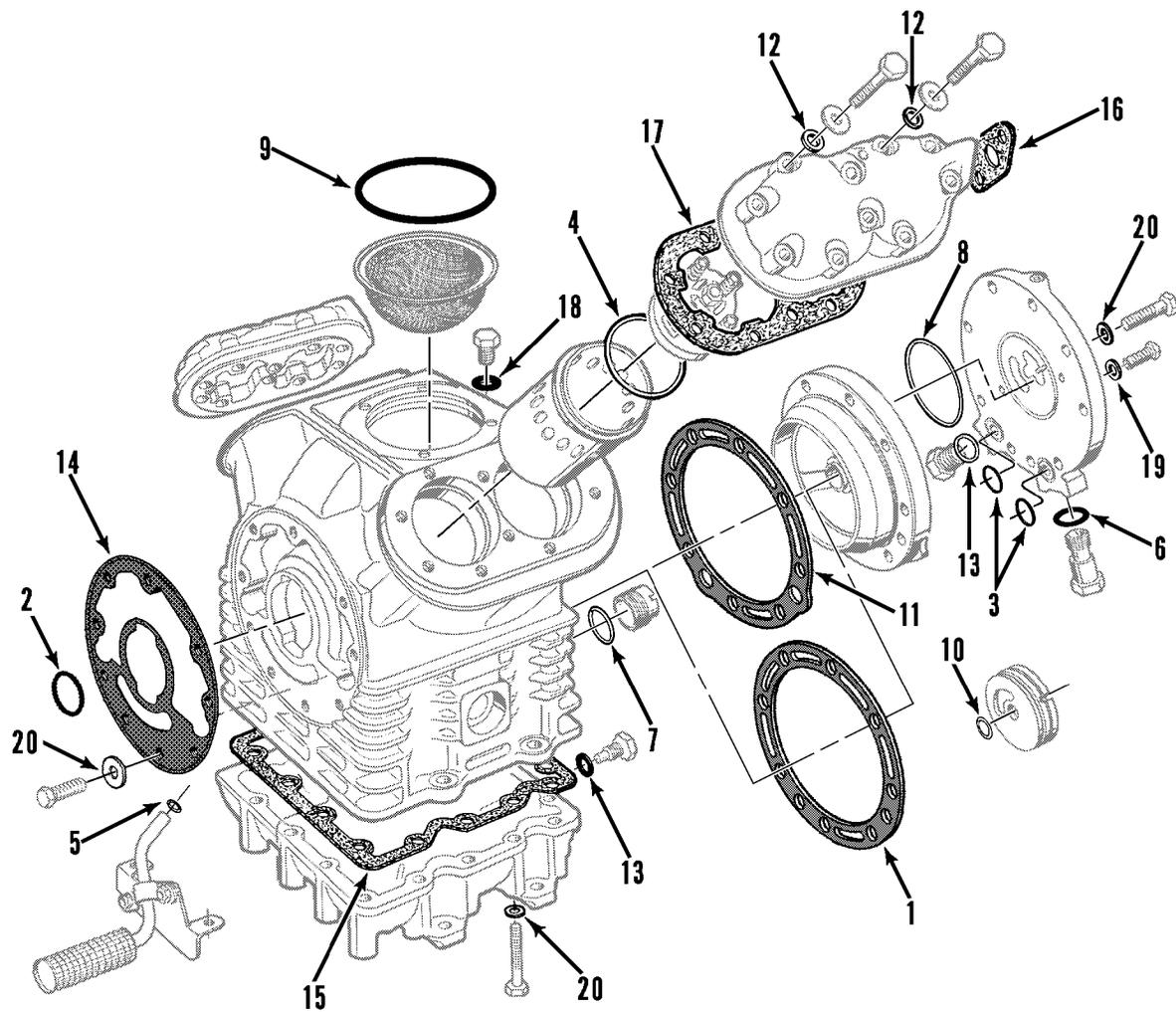


REF	PART#	DESCRIPTION	QTY
30	22-784	• REGULATOR	1
31	33-672	•• O-RING	1
32	55-681	• SCREW - cover to housing	2
	51-149	• FLATWASHER	2
33	55-183	• SCREW - pump	8
	55-896	• FLATWASHER	8
34	11-9001	• VALVE - tee	1
	203-393	• SEALER - thread	A/R
35	22-611	• SCREEN - oil pickup	1
36	33-2205	• O-RING	1
37	99-4848	• CLAMP - screen	1
38	55-291	• NUT	2
39	55-366	• LOCKWASHER	4
40	99-4849	• BRACKET - screen	1
41	55-165	• SCREW - bracket	2
42	55-6751	• PLUG - magnetic	2
	33-2095	• O-RING	2
43	33-2515	• GASKET - oil sump	1
44	22-694	• SUMP - oil	1
45	55-1417	• SCREW - oil sump	16
	55-896	• FLATWASHER	16
46	22-350	• SIGHT GLASS	3
	33-822	• O-RING	3
47	33-2552	• GASKET - cylinder head	2
48	22-789	• HEAD - cylinder	2
49	55-6805	• SCREW (2 in lg)	12
50	55-6806	• SCREW (2-5/8 in lg)	8
51	55-6804	• WASHER - sealing	24
52	33-2019	• O-RING	24
53	22-656	• SLEEVE - cylinder	4
54	33-408	• O-RING	4
55	22-990	• PLATE - valve	4
56	55-6750	• PLUG - oil fill	1
57	22-306	• SCREEN - suction	1
58	33-1221	• O-RING	1
59	99-6545	• PLATE - suction inlet	1
60	11-2886	• VALVE (Schrader)	1



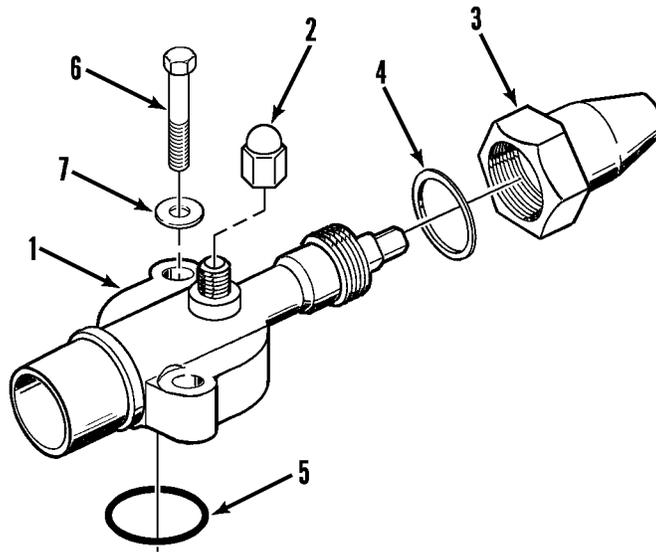


REF	PART#	DESCRIPTION	QTY
	11-7777	•• INSERT - valve	1
	55-5672	•• CAP - valve	1
61	55-329	• SCREW - plate	4
62	55-878	• SCREW - drive coupling	9
	55-896	• FLATWASHER	9
63	55-3364	• PLUG - manifold	3
64	55-6822	• SCREW - manifold	4
65	22-653	• VALVE - check	2
66	22-787	• VALVE - check (oil return)	1
67	22-568	• VALVE - check	2
68	22-1100	• SEAL - crankshaft	1
69	33-2513	• GASKET - drive end	1
70	22-693	• HOUSING - drive coupling	1
71	33-2120	• SEAL - oil	1
72	33-2805	• GASKET - manifold	2
73	22-782	• MANIFOLD - discharge	1
74	55-329	• SCREW	2
75	91-9858	• PLATE - discharge	1
76	33-3103	• GASKET	1
	67-404	OIL - compressor (R12, R22, R502, R403B, R402A & R401B)	A/R
	203-513	OIL - compressor (R404A, R134a & R407C)	A/R



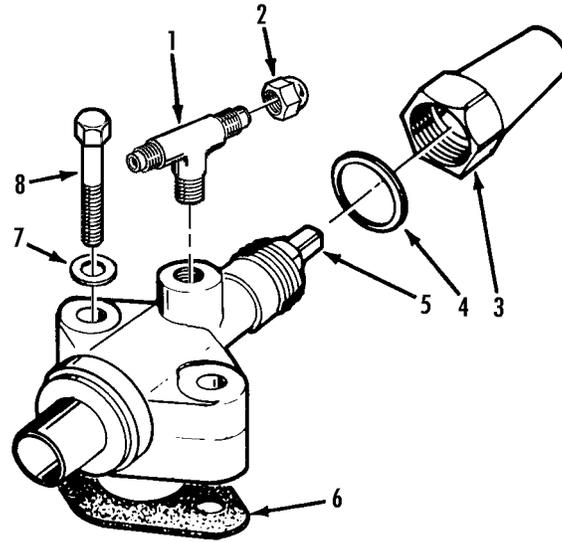


REF	PART#	DESCRIPTION	QTY
	30-243	KIT - gasket	1
1	33-110	• GASKET - pump housing (X426)	1
2	33-235	• O-RING - dust seal	1
3	33-239	• O-RING - oil galley	2
4	33-408	• O-RING - cylinder sleeve	4
5	33-2205	• O-RING - oil pickup tube	1
6	33-672	• O-RING - regulator	1
7	33-822	• O-RING - sight glass	1
8	33-1175	• O-RING - oil pump cover	1
9	33-1221	• O-RING - throttling valve	1
10	33-1223	• O-RING - oil pump	1
11	33-1549	• GASKET - pump housing (X430)	1
12	33-2019	• O-RING - cylinder head screw	24
13	33-2095	• O-RING - oil pump plug	2
14	33-2513	• GASKET - drive plate	1
15	33-2515	• GASKET - oil sump	1
16	33-2805	• GASKET - manifold	3
17	33-2552	• GASKET - cylinder head	2
18	55-381	• WASHER - oil fill	1
19	55-895	• WASHER - oil pump	2
20	55-896	• WASHER - compressor seal (3/8)	57





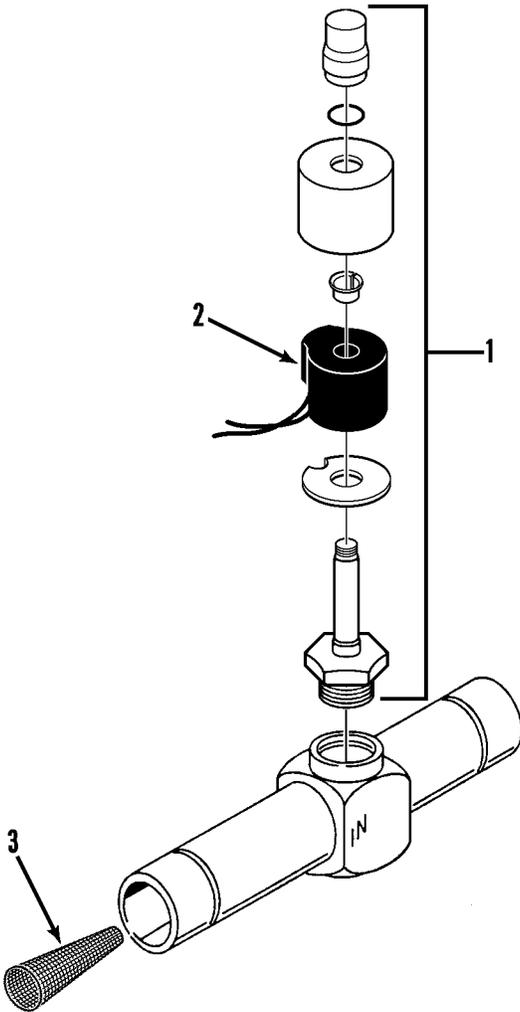
REF	PART#	DESCRIPTION	QTY
1	66-5318	VALVE - suction (incl 2, 3, 4)	1
2	55-1983	• CAP - flare (1/4)	1
3	66-2296	CAP - service valve (plastic, incl gasket)	1
	66-3015	CAP - valve (brass, incl gasket)	1
4	33-3007	GASKET - plastic cap	1
	33-350	GASKET - brass cap	1
5	33-230	O-RING - valve to adapter (1.875 id)	1
6	55-2683	SCREW - valve	2
7	55-7469	WASHER - belleville	2





REF	PART#	DESCRIPTION	QTY
1	55-7506	VALVE - tee (M9A)	1
	11-5513	VALVE - elbow (M9, M9B, M9C)	1
	11-7777	• CORE - valve	1
2	55-1983	• CAP - valve	1
3	66-2296	CAP - service valve (plastic, incl gasket)	1
	66-3015	CAP - valve (brass, incl gasket)	1
4	33-3007	• GASKET - plastic cap	1
	33-350	• GASKET - brass cap	1
5	66-3942	VALVE - discharge (incl 3 & 4)	1
6	33-2805	GASKET - valve	1
7	55-7469	WASHER - belleville	2
8	55-3149	SCREW - valve	2

**CAUTION:** Both discharge manifold gaskets MUST be the same part number (thickness).



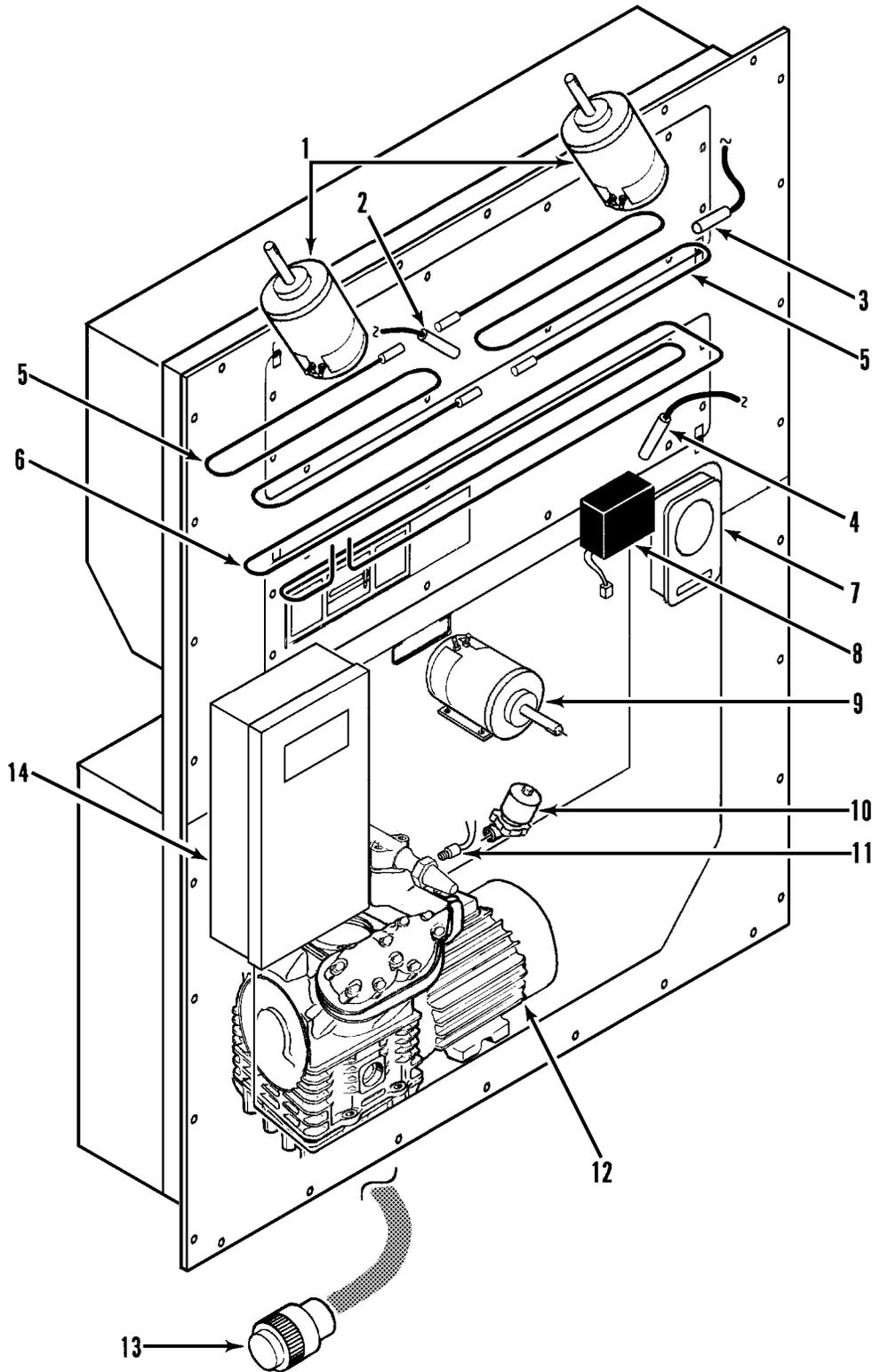
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6/3/08

# MODULATION VALVE ASSEMBLY



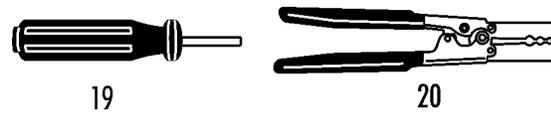
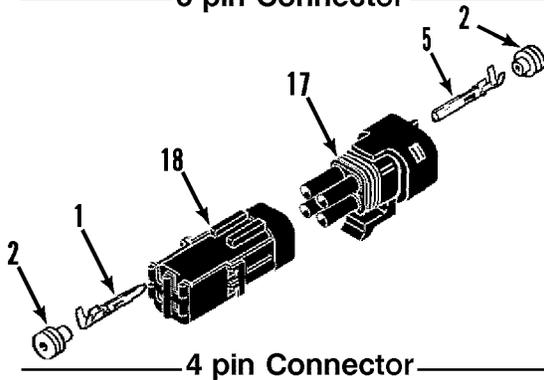
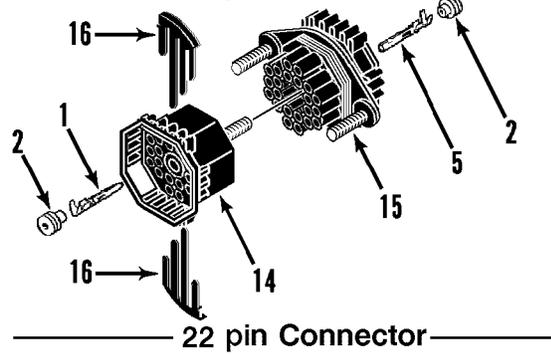
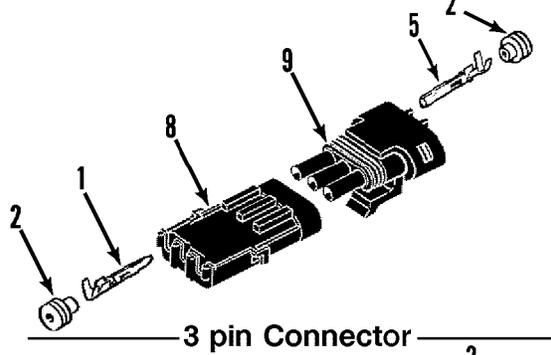
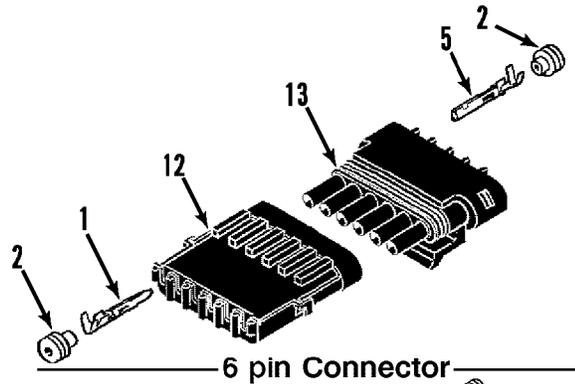
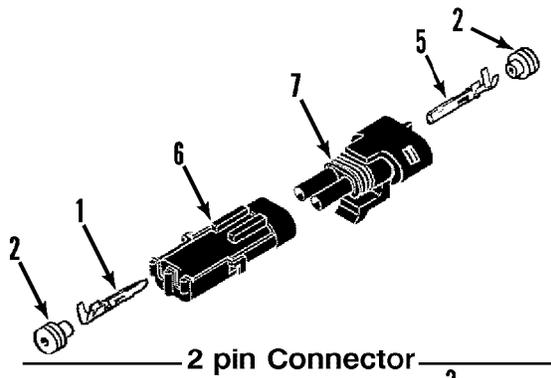
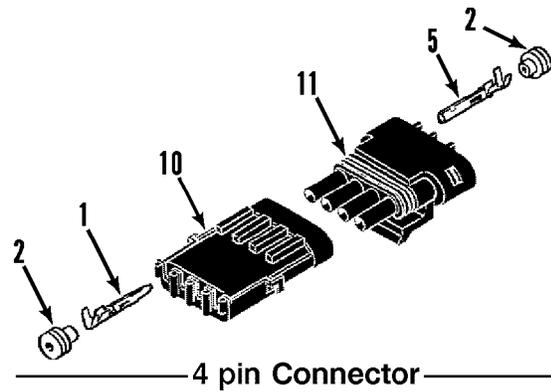
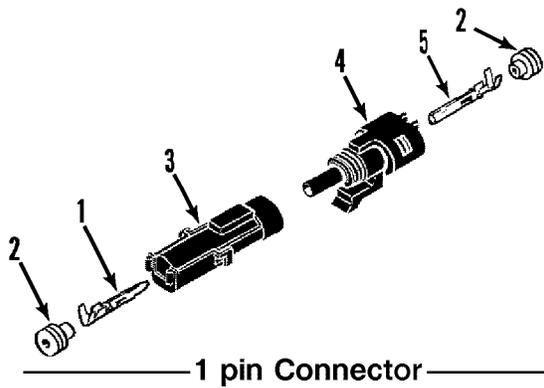
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REF	PART#	DESCRIPTION	QTY
	66-7981	VALVE - modulation	1
1	60-203	• KIT - repair	1
2	44-5175	•• COIL	1
3	66-7791	• SCREEN - inlet strainer (1.375 dia tube)	1
	66-7790	• SCREEN - inlet strainer (1.125 dia tube)	1





REF	PART#	DESCRIPTION	QTY
1	104-623	MOTOR - evaporator fan (see 112G5)	2
2	44-9655	SENSOR & PLUG - defrost (M9, see 96A2)	1
	44-6565	SENSOR - defrost (M9A, M9B, M9C, see 107B7)	1
3	44-9655	SENSOR & PLUG - return air (M9, see 96A2)	1
	44-5568	SENSOR - return air (M9A, M9B, M9C, see 107B7)	1
4	44-9655	SENSOR & PLUG - discharge air (M9, see 96A2)	1
	44-5448	SENSOR - discharge air (M9A, M9B, M9C, see 107B7)	1
5	45-1682	HEATER - evaporator coil (see 96A2 or 107B7)	2
6	45-1683	HEATER - drip pan (see 96A2 or 107B7)	1
7	45-1422	THERMOMETER - recording (M9, see 93F10)	1
	45-1831	THERMOMETER (M9A, M9B, M9C, see 107D14)	1
8	203-525	BATTERY & HARNESS (M9, see 95G9)	1
	203-382	BATTERY & HARNESS (M9A, M9B, M9C, see 107D12)	1
9	104-613	MOTOR - condenser fan (see 95G10 or 107B8)	1
10	66-7793	VALVE - modulation (see 95G13 or 111G5)	1
11	41-1626	SWITCH - hpco (see 95G12 or 112F1)	1
12	104-515	MOTOR - compressor drive (see 95G12 or 112F1)	1
13	44-4051	PLUG - power (MIPCO, 460V)	1
	41-1976	PLUG - power (Minnekes)	1
	41-2820	PLUG - power (ESL)	1
	44-9891	TERMINAL - pin (cable end)	3
	44-6310	TERMINAL - pin (plug end)	4
	33-2749	BUSHING - cable/plug	1
	45-1320	CABLE - power (yellow, 69 ft)	1
14	98-3860	BOX - control (see 95F13 or 107D13)	1



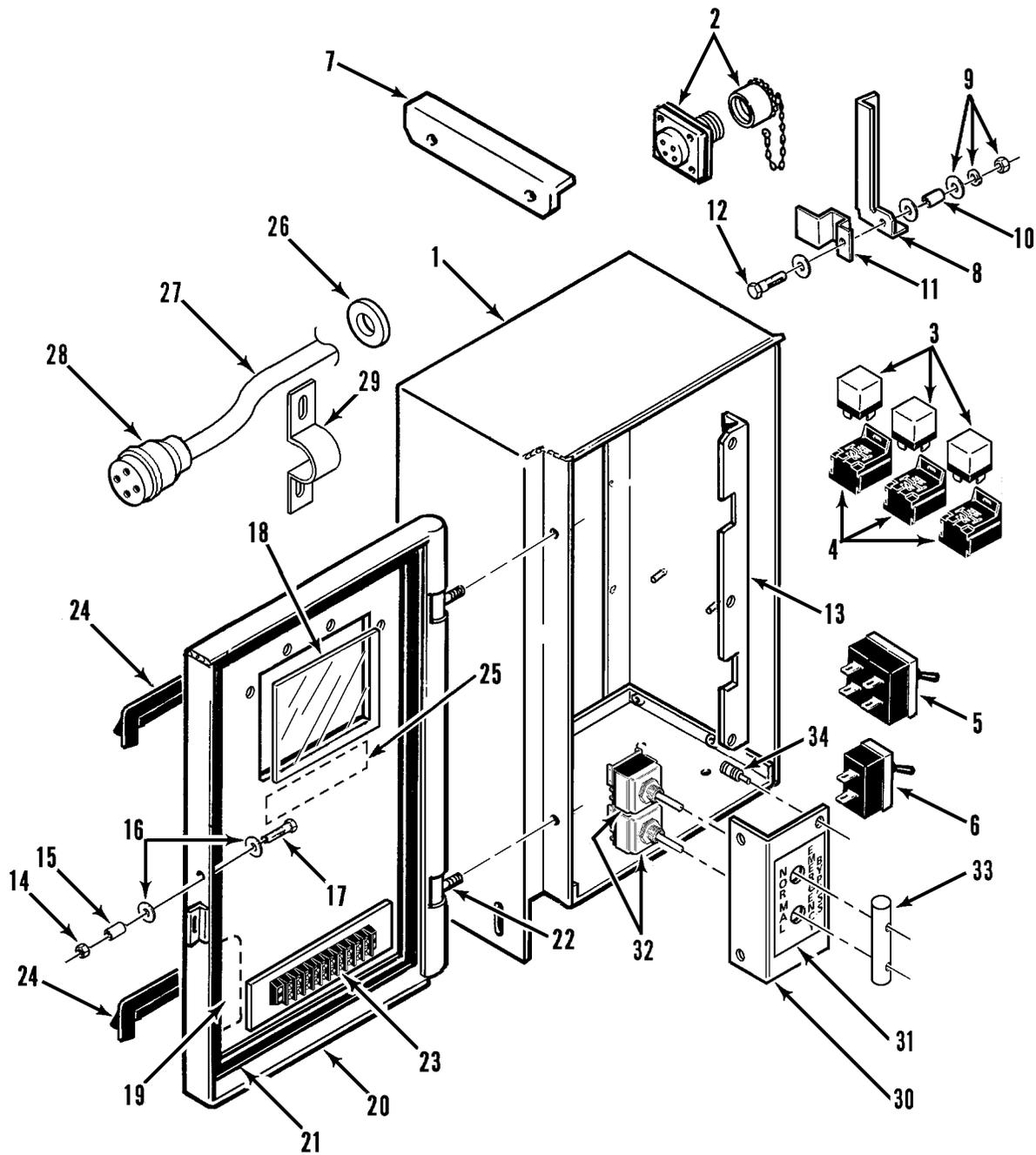


REF	PART#	DESCRIPTION	QTY
1	44-5836	TERMINAL - male (14-16 ga)	A/R
	44-5883	TERMINAL - male (18-20 ga)	A/R
	44-8851	TERMINAL - male (22 gauge)	A/R
	41-7403	TERMINAL - male (12 gauge)	A/R
2	44-8681	SEAL - cable (red, 18-20 ga)	A/R
	44-5885	SEAL - cable (green, 18-22 ga)	A/R
	44-5837	SEAL - cable (gray, 14-16 ga)	A/R
	44-6324	SEAL - cable (blue, 12-14 ga)	A/R
	44-7812	PLUG - cavity (green)	A/R
3	44-7330	CONNECTOR - shroud (1 pin)	1
4	44-7327	CONNECTOR - tower (1 pin)	1
5	44-5839	TERMINAL - female (14-16 ga)	A/R
	44-5884	TERMINAL - female (18-20 ga)	A/R
	44-8853	TERMINAL (22 gauge, female)	A/R
	41-8207	TERMINAL (12 gauge, female)	A/R
6	44-5835	CONNECTOR - shroud (black, 2 pin)	1
	41-8208	CONNECTOR - shroud (grey, 2 pin)	1
7	44-5838	CONNECTOR - tower (2 pin)	1
	41-8209	CONNECTOR - tower (grey, 2 pin)	1
8	44-9569	CONNECTOR - shroud (3 pin)	1
9	44-6959	CONNECTOR - tower (3 pin)	1
10	44-7880	CONNECTOR - shroud (4 pin)	1
11	44-7881	CONNECTOR - tower (4 pin)	1
12	44-8294	CONNECTOR - shroud (6 pin)	1
13	44-7872	CONNECTOR - tower (6 pin)	1
14	44-7884	CONNECTOR - shroud (22 pin)	1
15	44-7829	CONNECTOR - tower (22 pin)	1
16	44-7811	LOCK - secondary	2
17	41-1527	CONNECTOR - tower (4 pin)	1
18	41-1310	CONNECTOR - shroud (4 pin)	1
19	204-623	TOOL - pin removal	1
20	204-624	TOOL - terminal crimper	1
21	55-9704	CLIP - self-locking	A/R



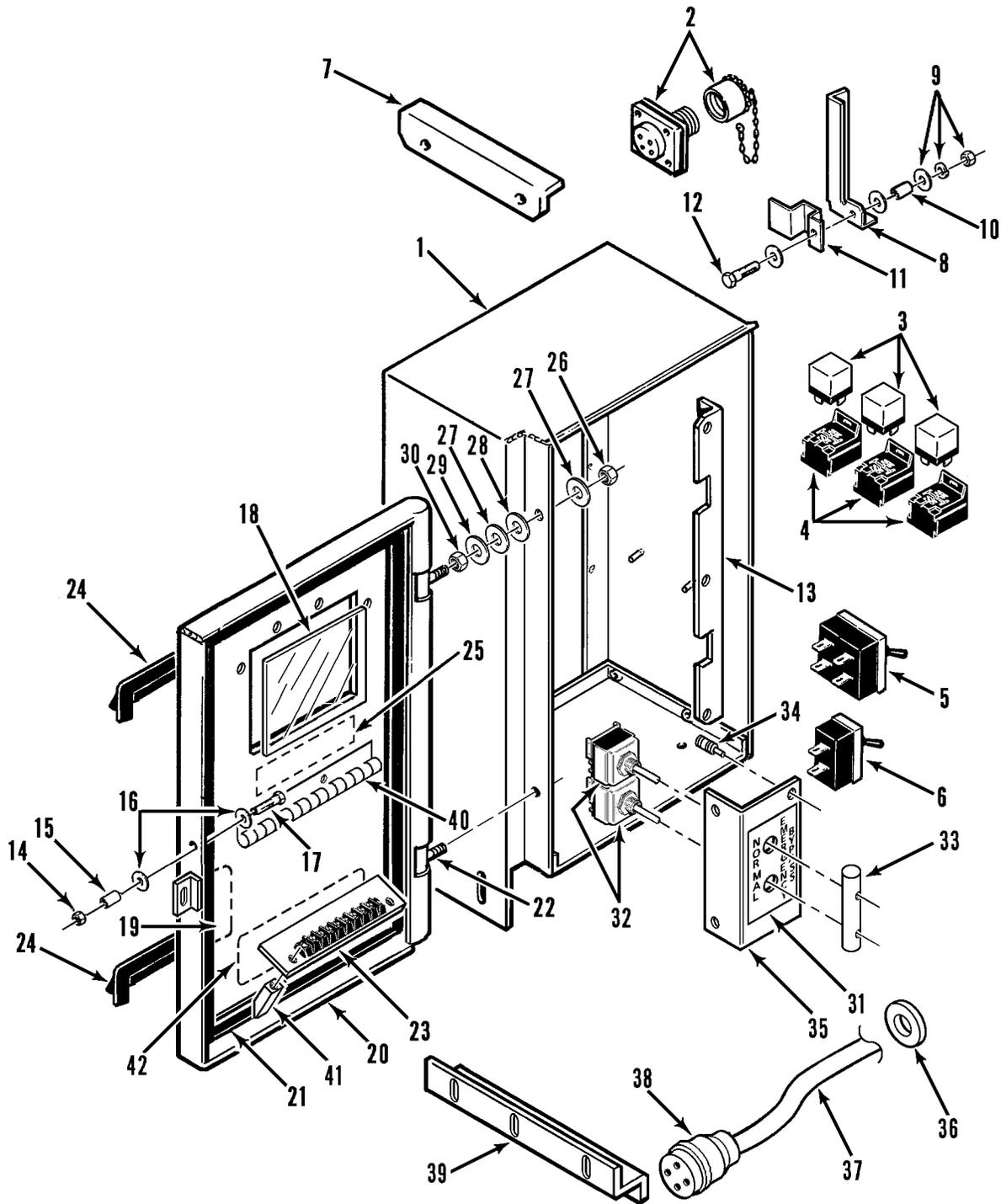


REF	PART#	DESCRIPTION	QTY
1	98-3860	BOX - control	1
	55-2977	SCREW - box	4
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
2	44-6822	SOCKET - remote monitor	1
	204-209	LEAD - thermistor	1
	55-4437	SCREW - socket	4
	55-2359	FLATWASHER	8
	55-2360	LOCKWASHER	4
	55-2361	NUT	4
3	44-9111	RELAY	3
4	44-5537	SOCKET - relay	3
5	44-6560	SWITCH - on/off (4pdt)	1
6	44-2099	SWITCH - defrost (1p)	1
	44-739	BOOT - switch	2
7	99-8981	ANGLE	1
	55-1587	SCREW - angle	2
	55-3028	WASHER - sealing	2
	55-4953	NUT	2
8	99-8149	LATCH - door	1
9	55-4953	NUT	1
	55-2086	FLATWASHER	3
	55-2363	LOCKWASHER	1
10	99-8994	SPACER - tube	1
11	99-8993	BRACKET - latch	1
12	55-2957	SCREW	1
13	99-9240	ANGLE - microcontroller	1
	55-3059	NUT - captive	3
	55-2991	SCREW - angle	2
	55-3008	WASHER - sealing	2
	55-2001	FLATWASHER	2
	55-4560	NUT	2
14	55-4953	NUT	1
15	99-8162	ROLLER - door latch	1
	99-8151	SPACER	1
16	55-2086	FLATWASHER	1
17	55-2977	SCREW - roller	1
18	99-8164	WINDOW	1
19	91-230	NAMEPLATE - On/Off Defrost	1
20	91-1263	COVER - control box	1
21	99-8986	STRIP - gasket (25 ft)	A/R
22	99-7900	ROD - cover	2



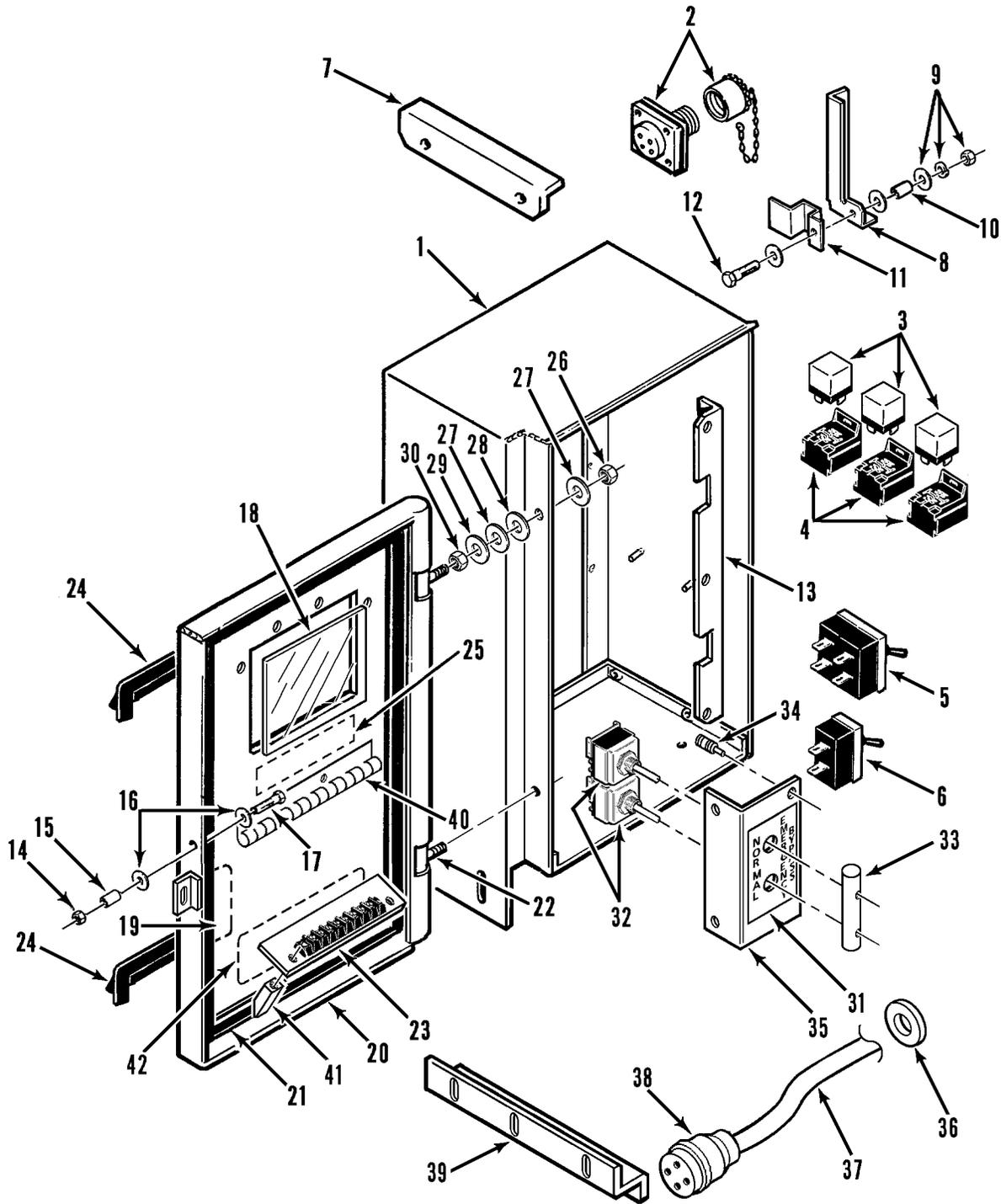


REF	PART#	DESCRIPTION	QTY
	55-3473	PIN	2
23	44-7594	BOARD - pc/LED	1
	91-2453	NAMEPLATE - Light Mode Indicator	1
	91-231	PLATE - spacer	1
	55-3696	SCREW - board	1
	55-3443	SCREW - board	2
	55-3023	WASHER - sealing	2
24	99-8161	SHIELD - light	2
	55-3099	SCREW - shield	8
	55-3008	WASHER - sealing	8
	55-2001	FLATWASHER	8
	55-4560	NUT	8
25	99-9401	NAMEPLATE - Lights Display	1
26	33-2749	BUSHING - cable/plug	1
27	45-1320	CABLE - power (yellow, 69 ft)	1
28	44-4051	PLUG - power (MIPCO, 460V)	1
	41-1976	PLUG - power (Minnekes)	1
	41-2820	PLUG - power (ESL)	1
	44-9891	TERMINAL - pin (cable end)	3
	44-6310	TERMINAL - pin (plug end)	4
29	91-3238	CLAMP - cable	1
	55-2977	SCREW - clamp	2
	55-2086	FLATWASHER	2
	55-1800	LOCKWASHER	2
30	91-3238	BRACKET - emergency bypass	1
	55-4953	NUT - bracket (hexstop)	2
	55-2086	FLATWASHER	2
31	91-2477	NAMEPLATE - emergency bypass	1
32	44-2101	SWITCH - emergency bypass	2
33	91-499	ROD - gang	1
	55-5202	SCREW - set (gang rod)	2
34	44-6812	RESISTOR (10 ohm)	1
	55-5353	SCREW - resistor	1
	55-3693	WASHER (fiber)	1
	55-2359	FLATWASHER	2
	55-2361	NUT	1



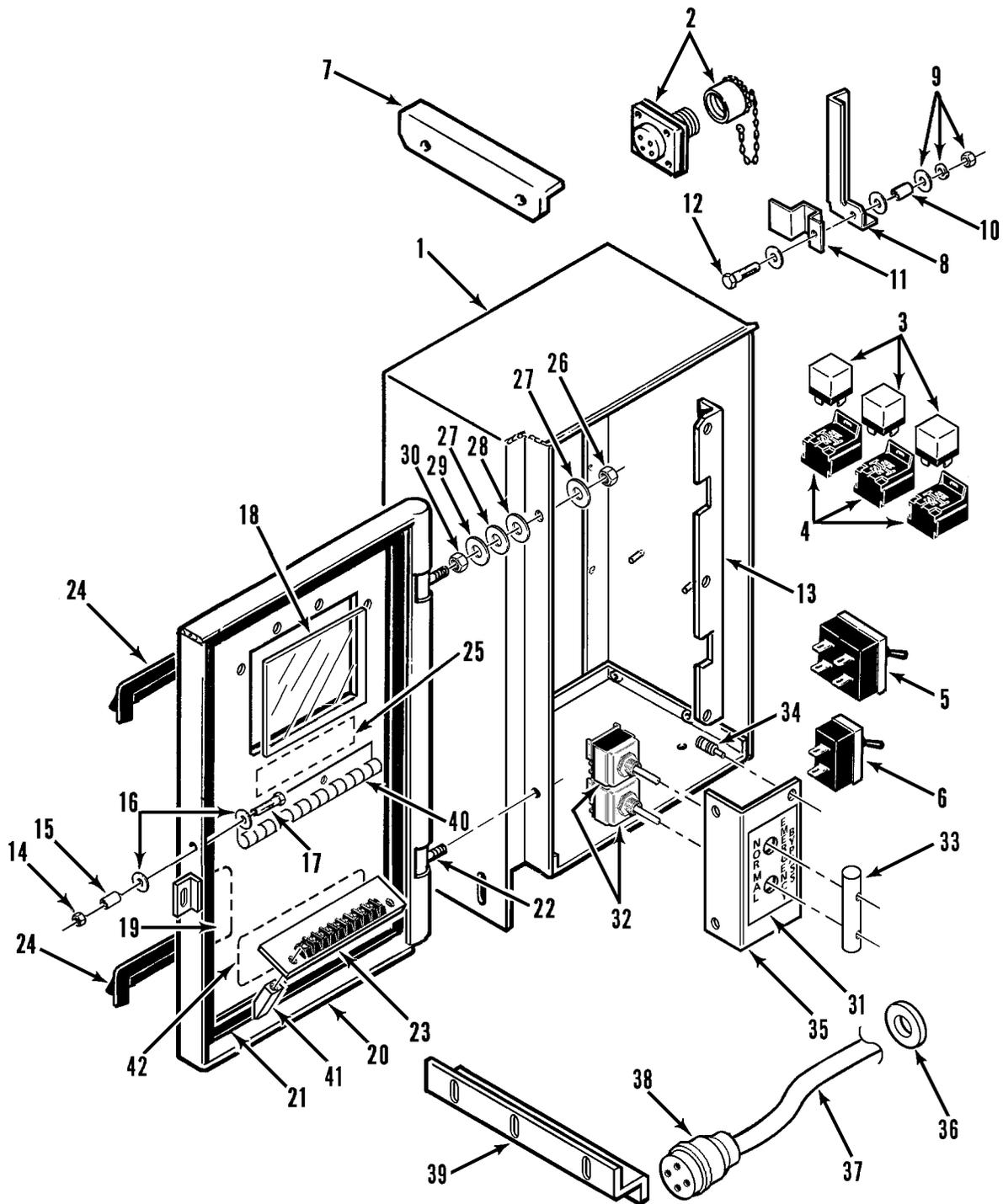


REF	PART#	DESCRIPTION	QTY
1	98-3860	BOX - control	1
	55-2977	SCREW - box	4
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
2	44-6822	SOCKET - remote monitor	1
	204-209	LEAD - thermistor	1
	55-4437	SCREW - socket	4
	55-2359	FLATWASHER	8
	55-2360	LOCKWASHER	4
	55-2361	NUT	4
3	44-9111	RELAY	3
4	44-5537	SOCKET - relay	3
	55-3511	SCREW - socket	2
	55-3023	WASHER - sealing	2
	55-2201	FLATWASHER	2
	55-4223	NUT	2
5	44-6560	SWITCH - on/off (4pdt)	1
6	44-2099	SWITCH - defrost (1p)	1
	44-739	BOOT - switch	2
7	99-8981	ANGLE	1
8	99-8149	LATCH - door	1
9	55-4953	NUT	1
	55-2086	FLATWASHER	3
	55-2363	LOCKWASHER	1
10	99-8994	SPACER - tube	1
11	99-8993	BRACKET - latch	1
12	55-2957	SCREW	1
13	99-9240	ANGLE - microcontroller	1
	55-3059	NUT - captive	3
	55-2991	SCREW - angle	2
	55-3008	WASHER - sealing	2
	55-2001	FLATWASHER	2
	55-4560	NUT	2
14	55-4953	NUT	1
15	99-8162	ROLLER - door latch	1
	99-8151	SPACER	1
16	55-2086	FLATWASHER	1
17	55-2977	SCREW - roller	1
18	99-8164	WINDOW (M9A)	1
	99-4999	WINDOW (M9B, M9C)	1
19	91-230	NAMEPLATE - On/Off Defrost	1
20	91-3237	COVER - control box (M9A)	1





REF	PART#	DESCRIPTION	QTY
	91-4998	COVER - control box (M9B, M9C)	1
21	99-8986	STRIP - gasket (25 ft)	A/R
22	99-7900	ROD - cover	2
	55-3473	PIN	2
	203-393	SEALER - thread	A/R
	203-392	SEALER - antiseize	A/R
23	44-8910	BOARD - pc/LED	1
	41-2558	• BOARD - pc/LED	1
24	99-8161	SHIELD - light	2
	55-7149	RIVET - shield (plastic)	8
25	99-9401	NAMEPLATE - Lights Display	1
26	55-4954	NUT	2
27	55-2958	FLATWASHER	4
28	55-3034	WASHER - sealing	2
29	55-2959	LOCKWASHER	2
30	55-2114	NUT	2
31	91-2478	NAMEPLATE - emergency bypass	1
32	44-709	SWITCH - emergency bypass	2
33	91-499	ROD - gang	1
	55-5202	SCREW - set (gang rod)	2
34	44-6812	RESISTOR (10 ohm)	1
	55-5353	SCREW - resistor	1
	55-3693	WASHER (fiber)	1
	55-2359	FLATWASHER	2
	55-2361	NUT	1
35	91-2477	BRACKET - emergency bypass	1
	55-4953	NUT - bracket (hexstop)	2
	55-2086	FLATWASHER	2
36	33-2749	BUSHING - cable/plug	1
37	45-1320	CABLE - power (69 ft)	1
	98-1215	HOSE (pvc, .875 id)	A/R
38	44-4051	PLUG - power (MIPCO, 460V)	1
	41-1976	PLUG - power (Minnekes)	1
	41-2820	PLUG - power (ESL)	1
	44-9891	TERMINAL - pin (cable end)	3
	44-6310	TERMINAL - pin (plug end)	4
39	91-3238	BRACKET - cable	1
	55-2977	SCREW - clamp	3
	55-2086	FLATWASHER	6
	55-3953	NUT	3
40	99-9385	BRACKET - nameplate (M9A)	1
	55-4953	NUT - bracket (hexstop)	2



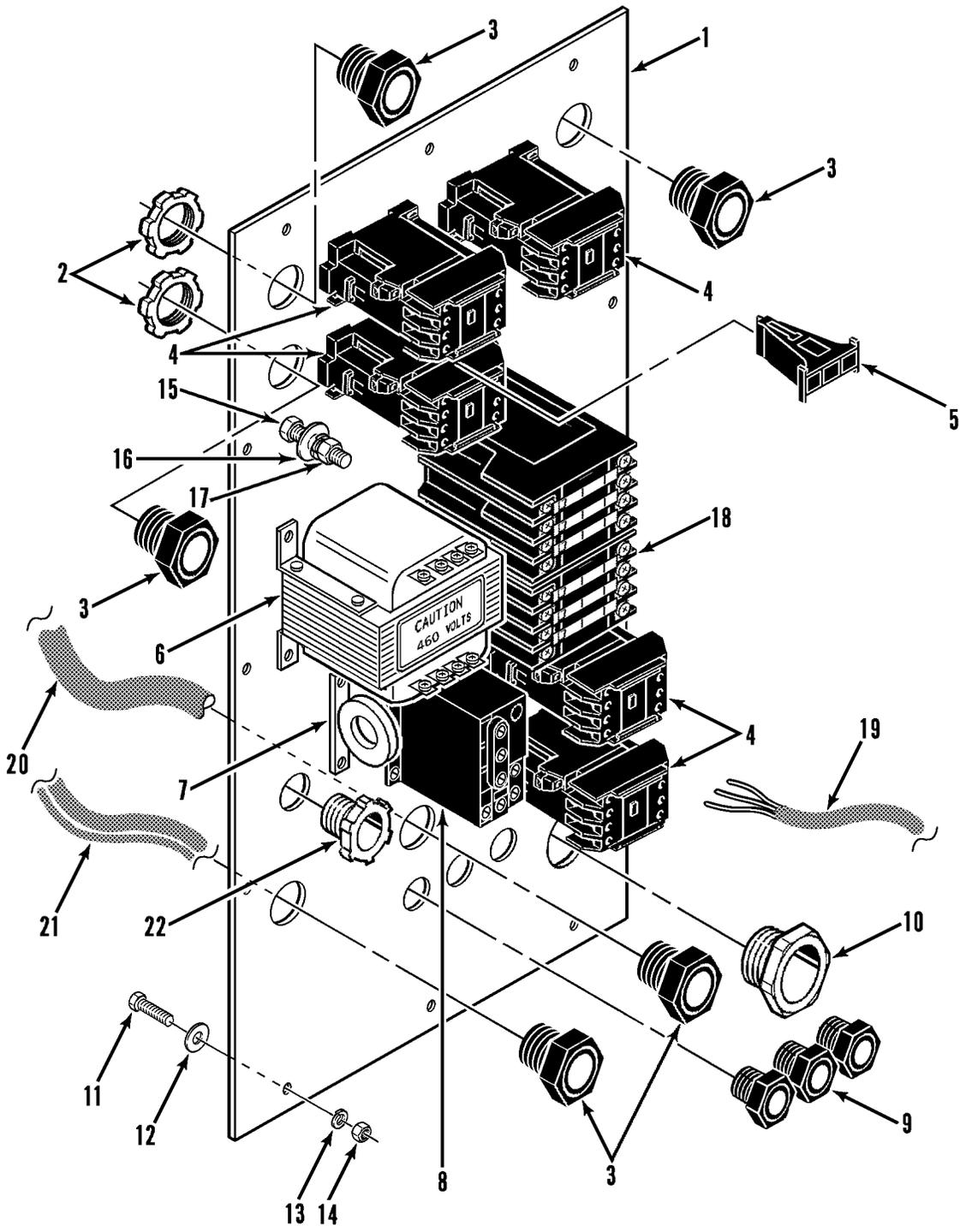
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**CONTROL BOX (M9A, M9B & M9C)**



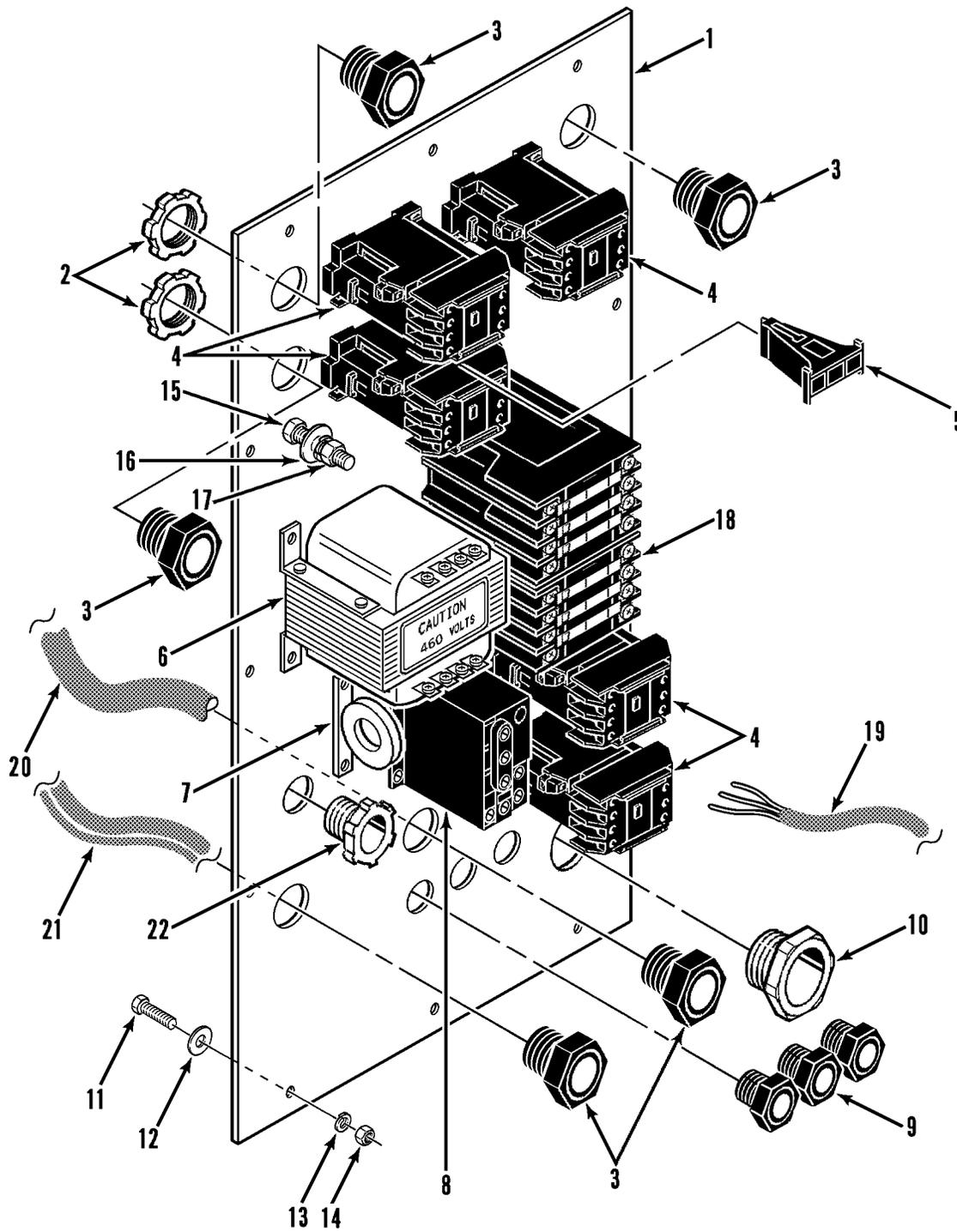
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<b>REF</b>	<b>PART#</b>	<b>DESCRIPTION</b>	<b>QTY</b>
	55-2086	FLATWASHER	2
41	91-4424	SPACER - board	1
	55-6036	SCREW - spacer	2
	55-3023	WASHER - sealing	2
42	91-3254	NAMEPLATE - Mode Lite Indicator	1





REF	PART#	DESCRIPTION	QTY
1	91-2456	PANEL - high voltage	1
2	55-5018	NUT	6
3	55-2788	FITTING - barb	5
4	44-8812	CONTACTOR	5
	55-3842	SCREW - contactor	12
	55-2964	LOCKWASHER	12
	55-2001	FLATWASHER	12
5	44-8813	INTERLOCK - contactor	1
6	44-8811	TRANSFORMER	1
	44-3710	JUMPER	1
	99-3522	NAMEPLATE - Caution 460 Volts	1
	55-3842	SCREW - transformer	4
	55-2964	LOCKWASHER	4
	55-2001	FLATWASHER	4
7	44-8832	TRANSFORMER - current	1
	55-3022	SCREW - transformer	2
	55-2202	LOCKWASHER	2
	55-2201	FLATWASHER	2
8	40-934	RELAY - overload	1
	55-3684	SCREW - relay	2
	55-2202	LOCKWASHER	2
	55-2201	FLATWASHER	2
9	55-5111	CONNECTOR - cable	3
	33-1435	GROMMET - connector	3
10	55-5885	CONNECTOR - cable	1
11	55-1587	SCREW - panel to box	12
12	55-3028	WASHER - sealing	12
13	55-2086	FLATWASHER	12
14	55-4953	NUT	12
15	55-3000	SCREW - ground	3
	55-3008	WASHER - sealing	3
16	55-2996	LOCKWASHER	6
	55-2001	FLATWASHER	6
17	55-2965	NUT	6
18	41-1971	CONTACTOR - phase correction	1
	55-3842	SCREW - contactor	4
	55-2202	LOCKWASHER	4
	55-2201	FLATWASHER	4
19	44-8842	HARNESS - high voltage tray to microprocessor	1
20	44-8844	HARNESS - heater	1
21	44-8831	HARNESS - main	1
	204-209	LEAD - thermistor	1



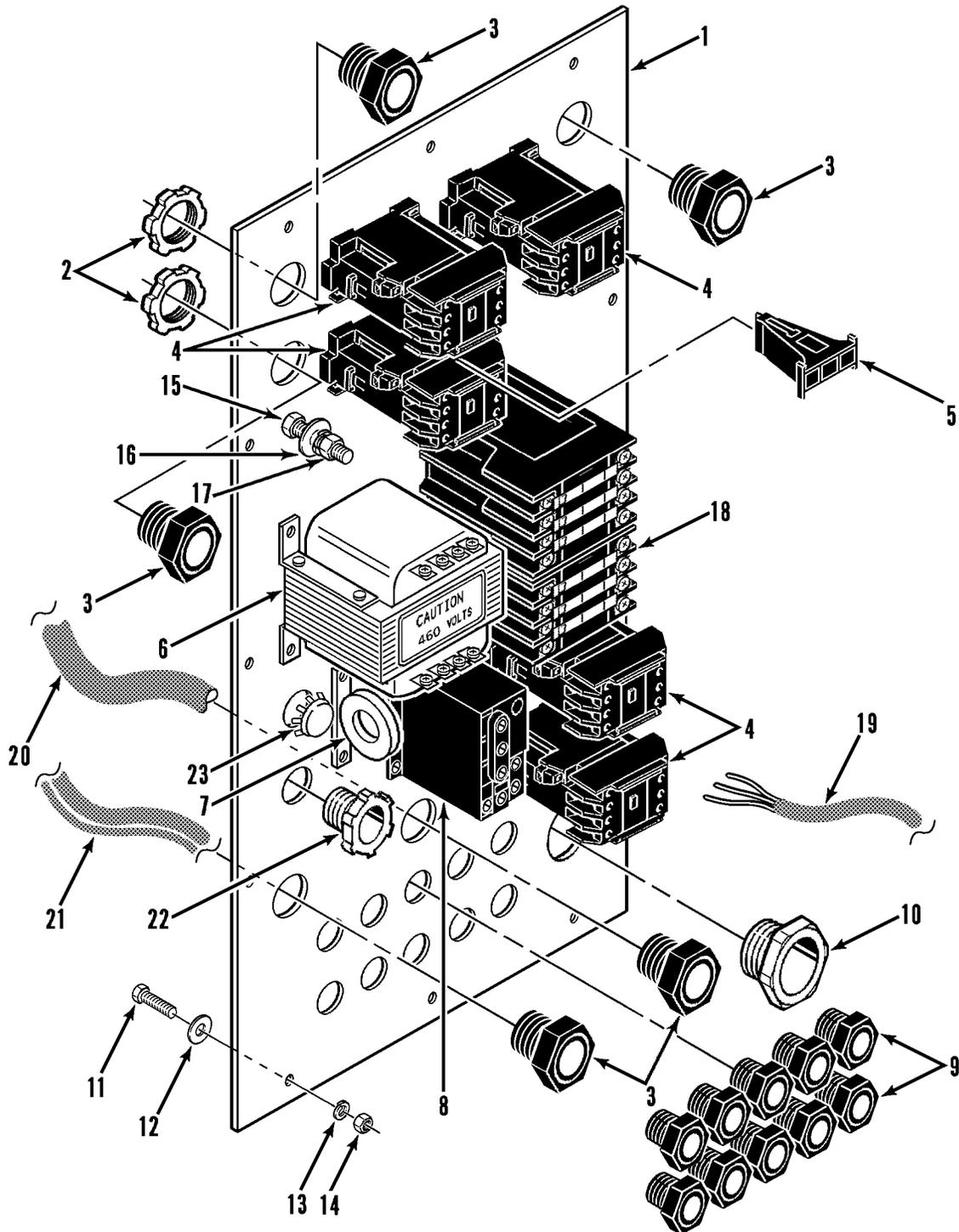
Revised  
11/4/96

HIGH VOLTAGE TRAY (M9)



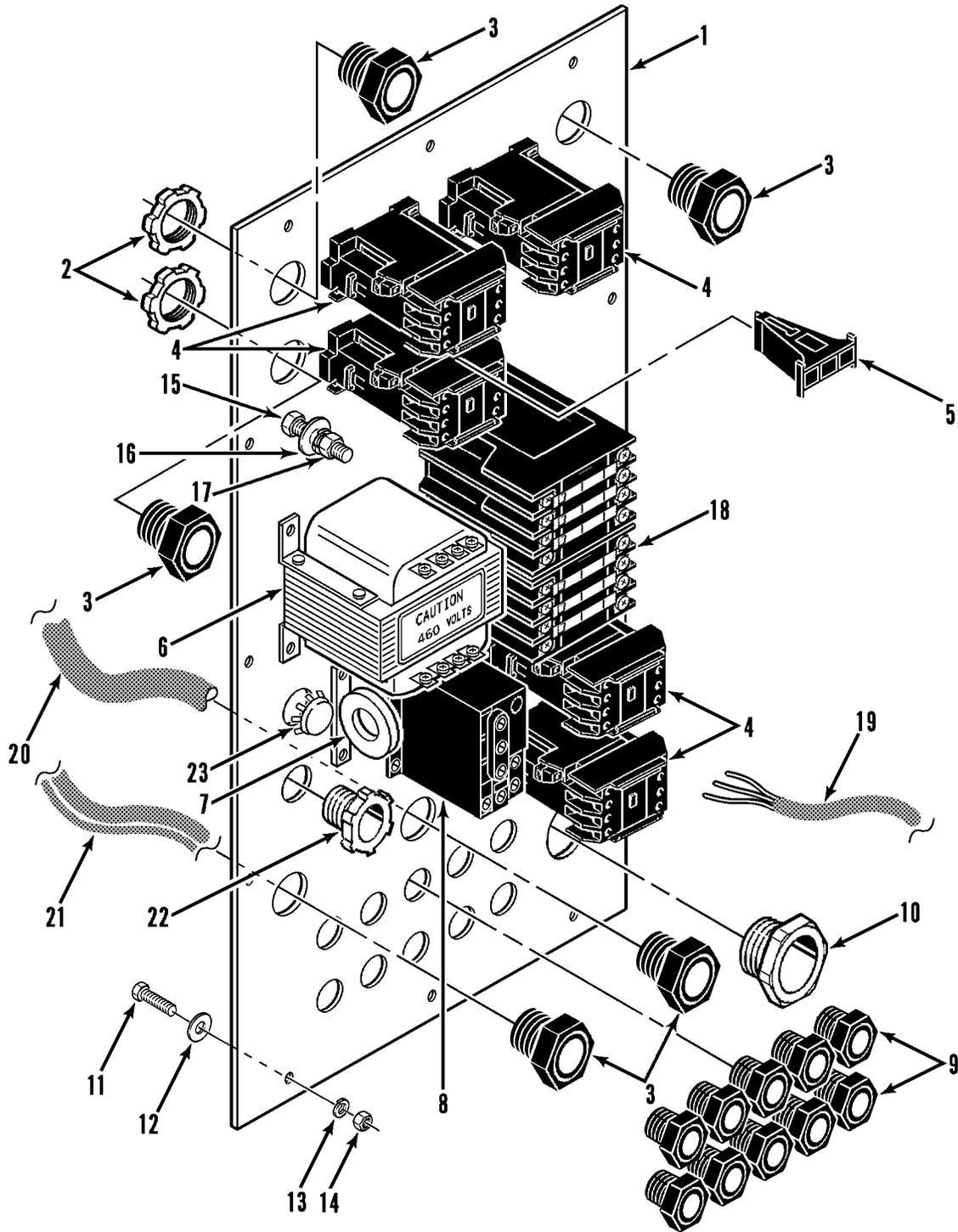
**95F14**

REF	PART#	DESCRIPTION	QTY
22	55-2789	FITTING - barb	1
	33-144	O-RING	1



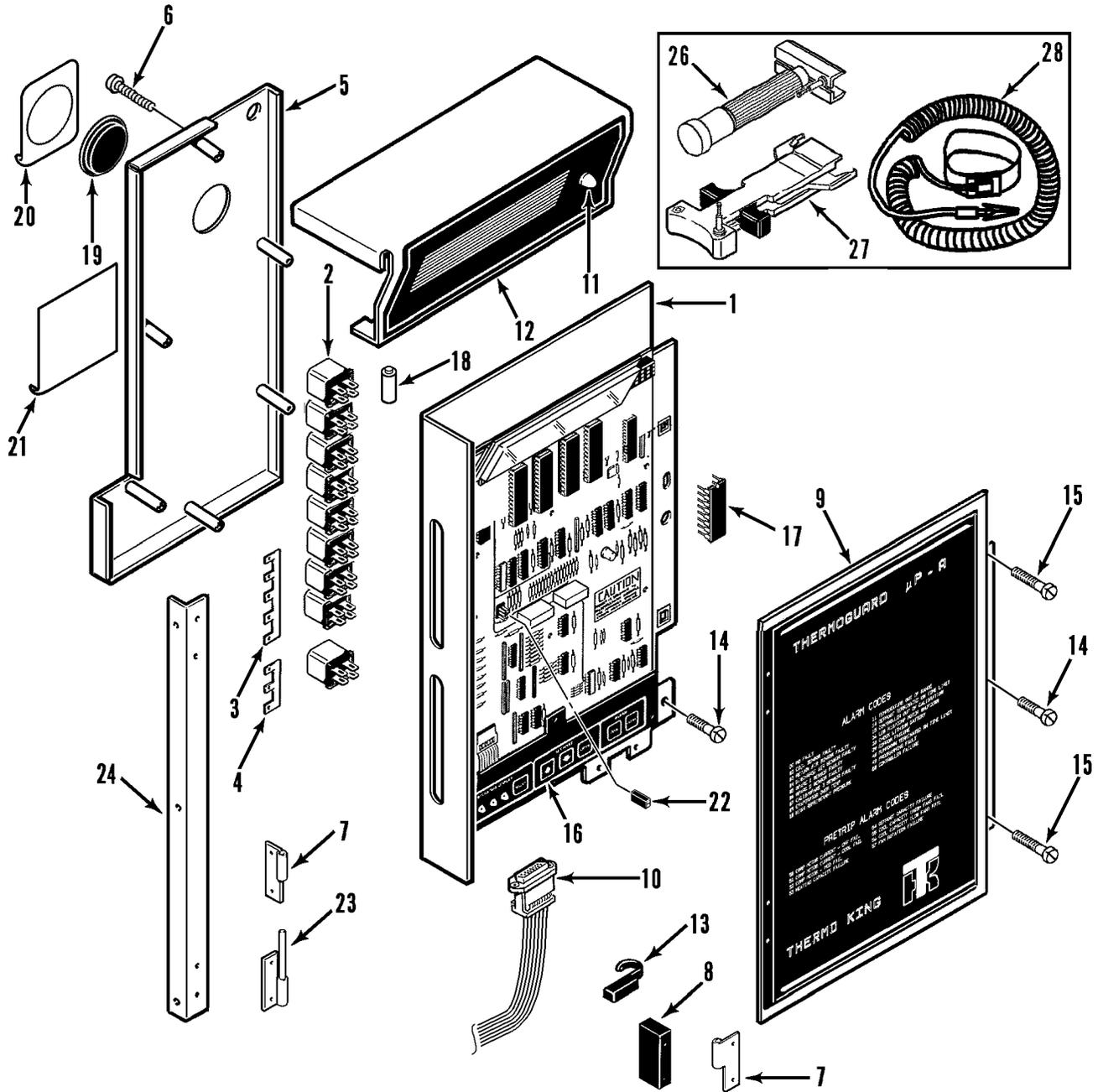


REF	PART#	DESCRIPTION	QTY
1	91-3235	PANEL - high voltage	1
2	55-5018	NUT	6
3	55-2788	FITTING - barb	5
4	44-8812	CONTACTOR	5
	55-3842	SCREW - contactor	10
	55-2964	LOCKWASHER	10
	55-2001	FLATWASHER	10
5	44-8813	INTERLOCK - contactor	1
6	44-8811	TRANSFORMER	1
	44-3710	JUMPER	1
	44-3311	TERMINAL - connecting (splice)	2
	44-9695	TERMINAL - fingrip	2
	44-6264	CONNECTOR - terminal	2
	99-3522	NAMEPLATE - Caution 460 Volts	1
	55-3842	SCREW - transformer	4
	55-2964	LOCKWASHER	4
	55-2001	FLATWASHER	4
7	44-8832	TRANSFORMER - current	1
	55-3022	SCREW - transformer	2
	55-2202	LOCKWASHER	2
8	40-934	RELAY - overload	1
	55-3684	SCREW - relay	2
	55-2202	LOCKWASHER	2
	55-2201	FLATWASHER	2
9	55-5111	CONNECTOR - cable	10
	33-1435	GROMMET - connector	6
10	55-5885	CONNECTOR - cable	1
11	55-1587	SCREW - panel to box	12
12	55-3028	WASHER - sealing	12
13	55-2086	FLATWASHER	12
14	55-4953	NUT	12
15	55-3000	SCREW - ground	3
	55-3008	WASHER - sealing	3
16	55-2996	LOCKWASHER	6
	55-2001	FLATWASHER	6
17	55-2965	NUT	6
18	41-1971	CONTACTOR - phase correction	1
	55-3842	SCREW - contactor	4
	55-2964	LOCKWASHER	4
	55-2201	FLATWASHER	4
19	44-8842	HARNESS - high voltage tray to microprocessor (M9A)	1



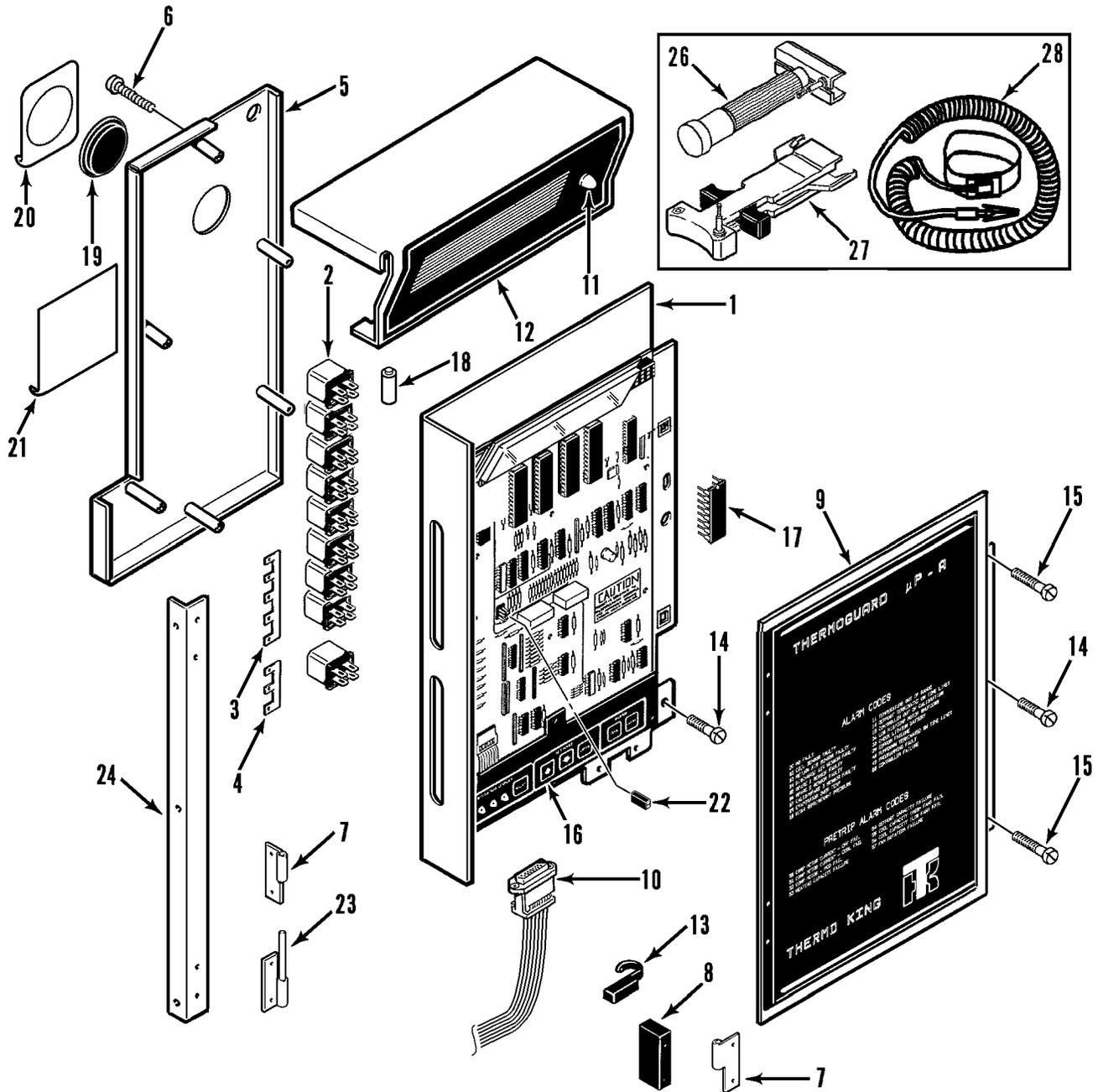


REF	PART#	DESCRIPTION	QTY
	41-169	HARNESS - high voltage tray to microprocessor (M9B, M9C, see 112G13)	1
20	44-8844	HARNESS - heater	1
21	44-9696	HARNESS - main (M9A)	1
	44-6519	• CONNECTOR - tower (2 pin)	1
	44-5573	• CONNECTOR - shroud (2 pin)	1
	41-171	HARNESS - main (M9B, M9C)	1
	44-5835	• CONNECTOR - shroud (2 pin)	1
	44-5883	• TERMINAL - male (18-20 ga)	2
	44-5885	• SEAL - cable (green, 18-22 ga)	2
	44-5838	• CONNECTOR - tower (2 pin)	2
	44-5884	• TERMINAL - female (18-20 ga)	4
	44-5885	• SEAL - cable (green, 18-22 ga)	4
	204-209	LEAD - thermistor	1
22	55-2789	FITTING - barb	1
	33-144	O-RING	1
23	99-2702	PLUG - oil tight	1





REF	PART#	DESCRIPTION	QTY
1	45-1764	CONTROLLER - microprocessor (MPA+)	1
	845-1453	CONTROLLER - microprocessor (remanufactured)	1
2	44-5571	• RELAY - microprocessor	9
3	44-7120	• JUMPER - terminal (5 fin)	1
4	44-7253	• JUMPER - terminal (3 fin)	1
5	99-8165	• PANEL - microprocessor (rear, w/o battery hole)	1
	91-6574	• PANEL - microprocessor (rear, w/ battery hole)	1
6	55-3845	• SCREW - rear panel	6
	55-3014	• LOCKWASHER	6
	55-3013	• FLATWASHER	6
7	99-8166	• HINGE	4
	55-4199	• SCREW - hinge	4
	55-3014	• LOCKWASHER	4
	55-2999	• NUT	4
8	99-8167	• BLOCK - hinge	2
	55-2997	• SCREW - block	4
	55-3014	• LOCKWASHER	4
	55-3013	• FLATWASHER	4
9	91-3458	• COVER - assembly (MPA)	1
	91-3459	•• NAMEPLATE - cover (MPA)	1
	91-2303	• COVER (MP)	1
	92-1159	•• NAMEPLATE - cover (MP)	1
10	44-6564	• CONNECTOR & CABLE - data port	1
	55-3427	• SCREW - connector	2
11	44-7468	• BULB - alarm	1
	44-7469	• LENS (red)	1
12	91-2304	• COVER (top)	1
	91-1109	•• NAMEPLATE - digital display	1
13	99-9341	• COVER - connector	1
	55-4437	• SCREW - cover	2
	55-2359	• FLATWASHER	2
	55-2360	• LOCKWASHER	2
	55-2361	• NUT	2
14	55-6771	• SCREW - assembly	3
15	55-5396	• SCREW	2
	55-3059	• NUT - captive	2
16	44-9393	• KEYPAD	1
17	40-467	• KIT - chip (MPA)	1

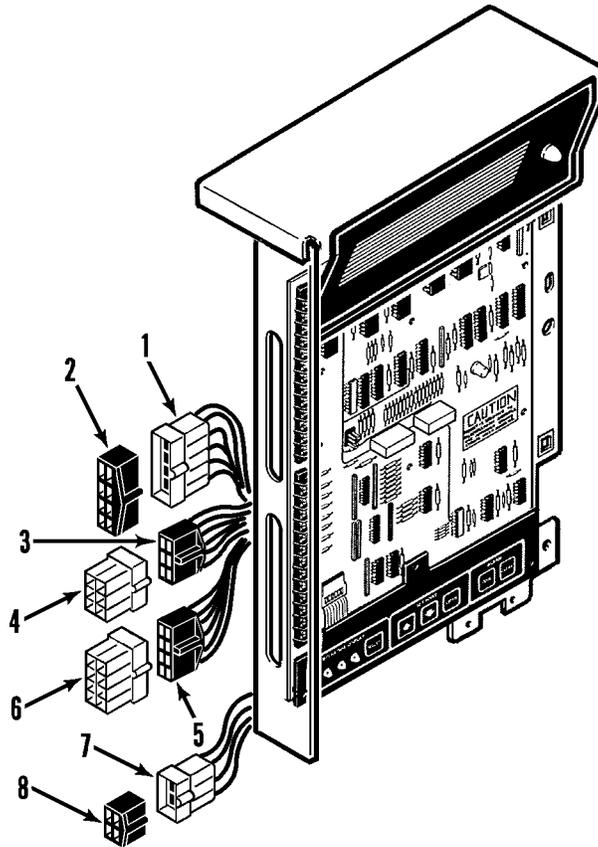




REF	PART#	DESCRIPTION	QTY
18	203-439	• BATTERY - lithium (3.0V)	1
19	55-5425	• PLUG - button	1
20	91-6575	• NAMEPLATE - Real Time Clock	1
21	91-4019	• NAMEPLATE - Caution, Sensitive Electronic Devices	1
22	44-8187	• JUMPER	1
23	99-8168	HINGE	2
24	99-8169	ANGLE - hinge	1
	55-2991	SCREW - angle & hinge	7
	55-3008	WASHER - sealing (angle)	3
	55-2001	FLATWASHER - hinge	4
	55-4560	NUT - hinge (stop)	4
25	44-7159	RESISTOR - CLOP	1
26	204-736	INSTALLER - integrated circuit	1
27	204-636	REMOVER - integrated circuit	1
28	204-622	WRIST STRAP - electrostatic	1

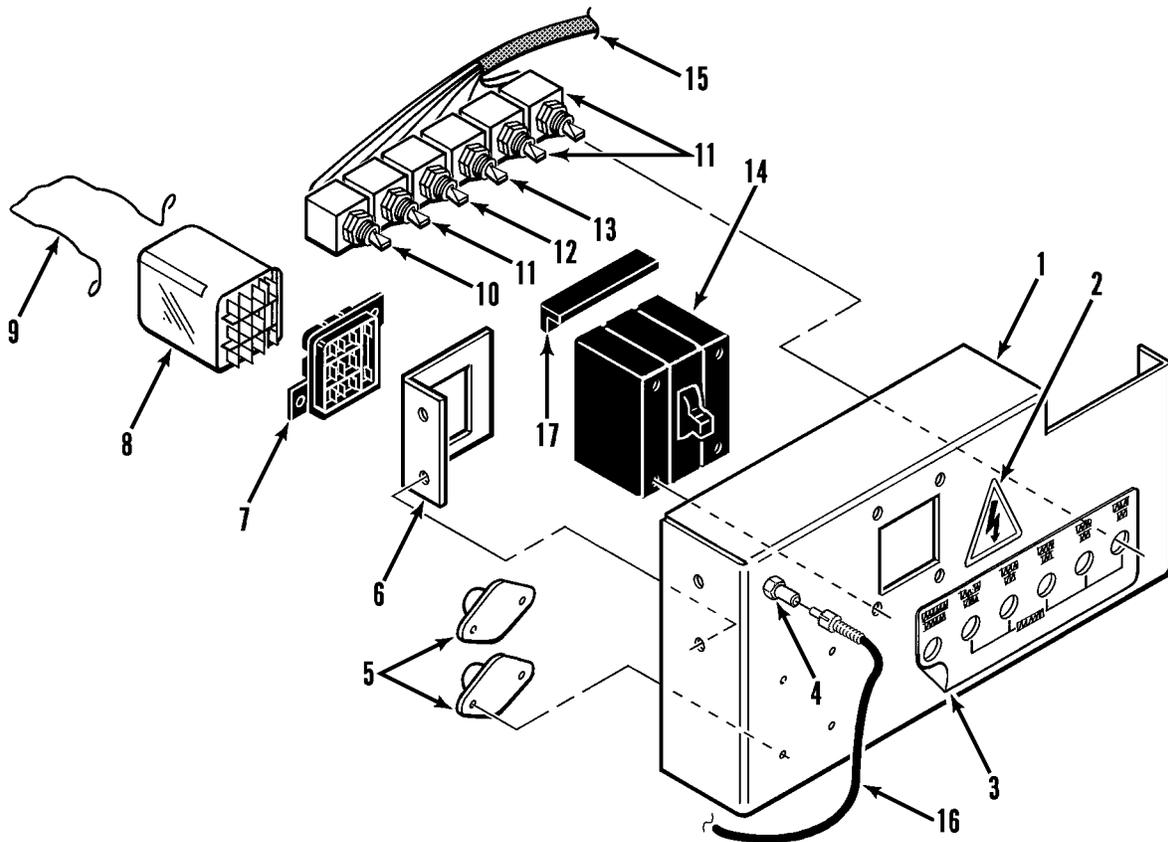
**NOTE:** The printed circuit boards are not sold separately. The microprocessor must be replaced as a complete unit. General Safety Equipment Precautions for Servicing Units Equipped with THERMOGUARD Microprocessor Controllers. The Thermoguard Microprocessor, like all micro-electronic circuits in use today, requires special precautions in handling to avoid damaging sensitive electronic components. While these circuits are extremely reliable and immune to most environmental extremes, they are sensitive to static electricity and damage from certain external causes. Precautions must be taken when servicing units and/or containers with these Controllers installed to ensure that the Controller and other sensitive electronic components are not damaged. If these precautionary measures are not followed, the risk of significant damage to the electronic components of the unit is possible. The primary risk potential results from the failure to wear adequate electrostatic discharge preventative equipment when handling and/or servicing the Controller. The second cause results from electric welding on the unit and/or container chassis without taking precautionary steps.

**NOTE:** See 112G13 for M9B, M9C Harness Assemblies.



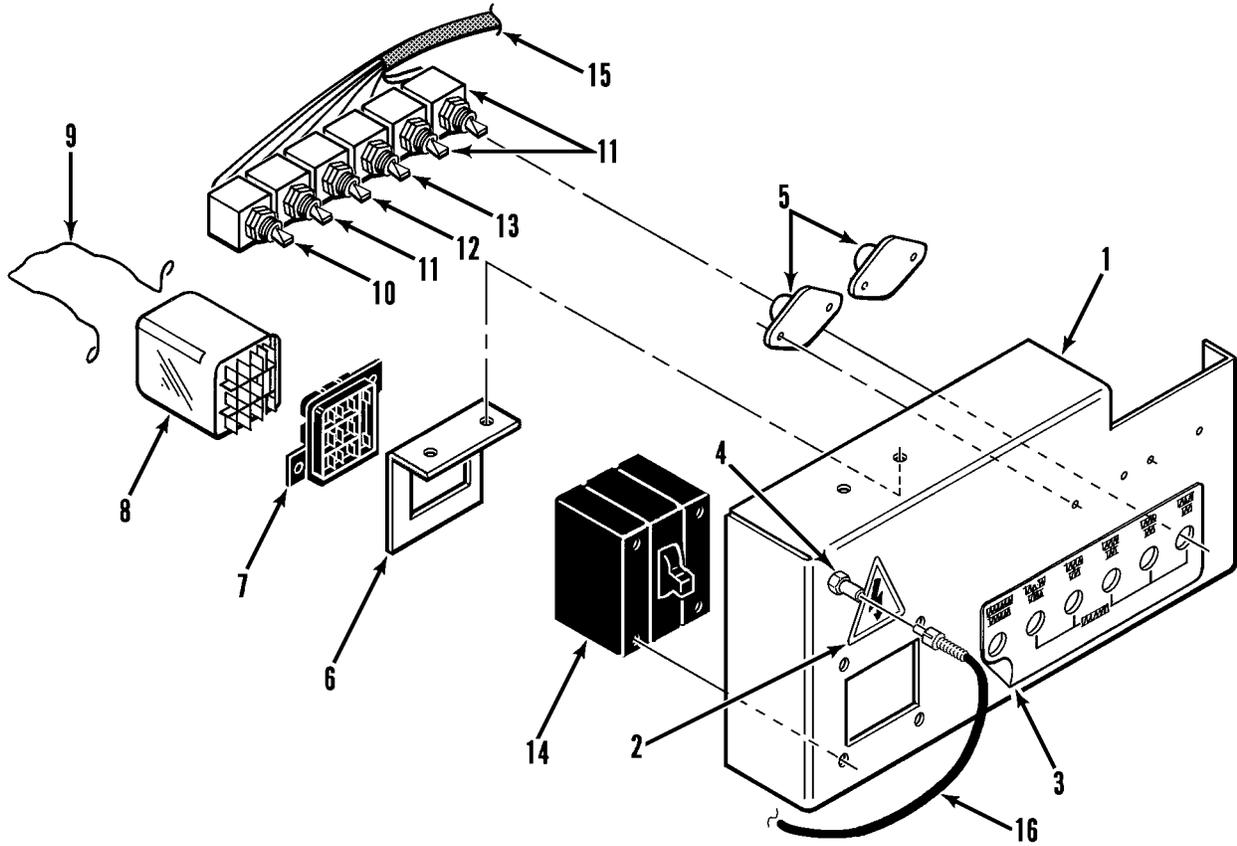


REF	PART#	DESCRIPTION	QTY
1	41-184	HARNESS - loads (assembly)	1
	44-5718	• CONNECTOR (8 pin, female)	1
	44-8092	• TERMINAL - fingrip	8
2	44-5719	CONNECTOR (8 pin, male, loads)	1
3	41-187	HARNESS - inputs (assembly)	1
	44-5030	• CONNECTOR (6 pin, male)	1
	44-5631	• TERMINAL - fingrip	6
4	44-4925	CONNECTOR (6 pin, female)	1
5	41-186	HARNESS - lights (assembly)	1
	44-5719	• CONNECTOR (8 pin, male)	1
	44-5631	• TERMINAL - fingrip	8
6	44-5718	• CONNECTOR (8 pin, female)	1
	44-8092	• TERMINAL - fingrip	8
7	41-185	HARNESS - power (assembly)	1
	44-5827	• CONNECTOR (4 pin, female)	1
	44-8092	• TERMINAL - fingrip	4
	44-8973	• CONNECTOR - jack (remote battery pack)	1
8	44-5814	CONNECTOR - power (4 pin, male)	1



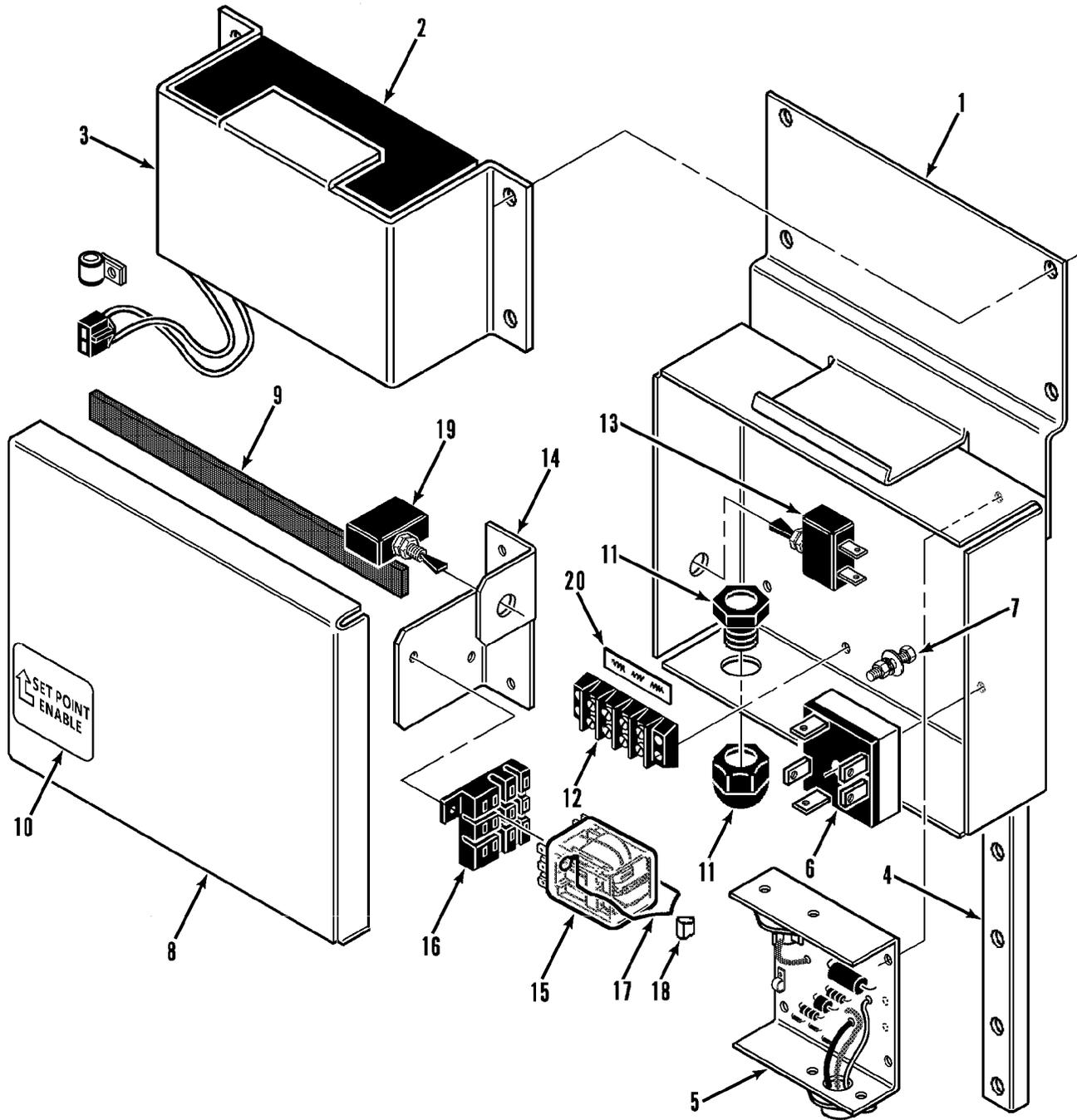


REF	PART#	DESCRIPTION	QTY
1	91-2457	BRACKET - circuit breaker	1
2	99-7834	NAMEPLATE - Caution	1
3	91-2458	NAMEPLATE - Circuit Breaker	1
4	44-5114	POST - binding	1
5	44-3280	RECTIFIER	2
	55-3256	SCREW - rectifier	4
	55-3013	FLATWASHER	8
	55-3014	LOCKWASHER	4
	55-2999	NUT	4
6	91-2459	BRACKET - relay	1
	55-3025	SCREW - relay bracket	2
	55-2001	FLATWASHER	2
	55-2964	LOCKWASHER	2
	55-547	CLAMP - harness	1
7	44-3184	SOCKET - relay	1
8	44-3186	RELAY	1
9	99-2027	SPRING	1
	55-2270	RIVET	2
	55-2771	CLAMP	1
10	44-6558	BREAKER - circuit (1.5 amp)	1
11	44-6557	BREAKER - circuit (3.0 amp)	3
12	44-5996	BREAKER - circuit (5.0 amp)	1
13	44-6180	BREAKER - circuit (1.0 amp)	1
14	44-6949	BREAKER - circuit (25 amp)	1
	55-3513	SCREW - circuit breaker	4
	55-3013	FLATWASHER	4
	55-3014	LOCKWASHER	4
15	44-8830	HARNESS - circuit breaker	1
16	204-209	LEAD - thermistor (16 ft)	1
17	91-3810	GUARD - circuit breaker	1



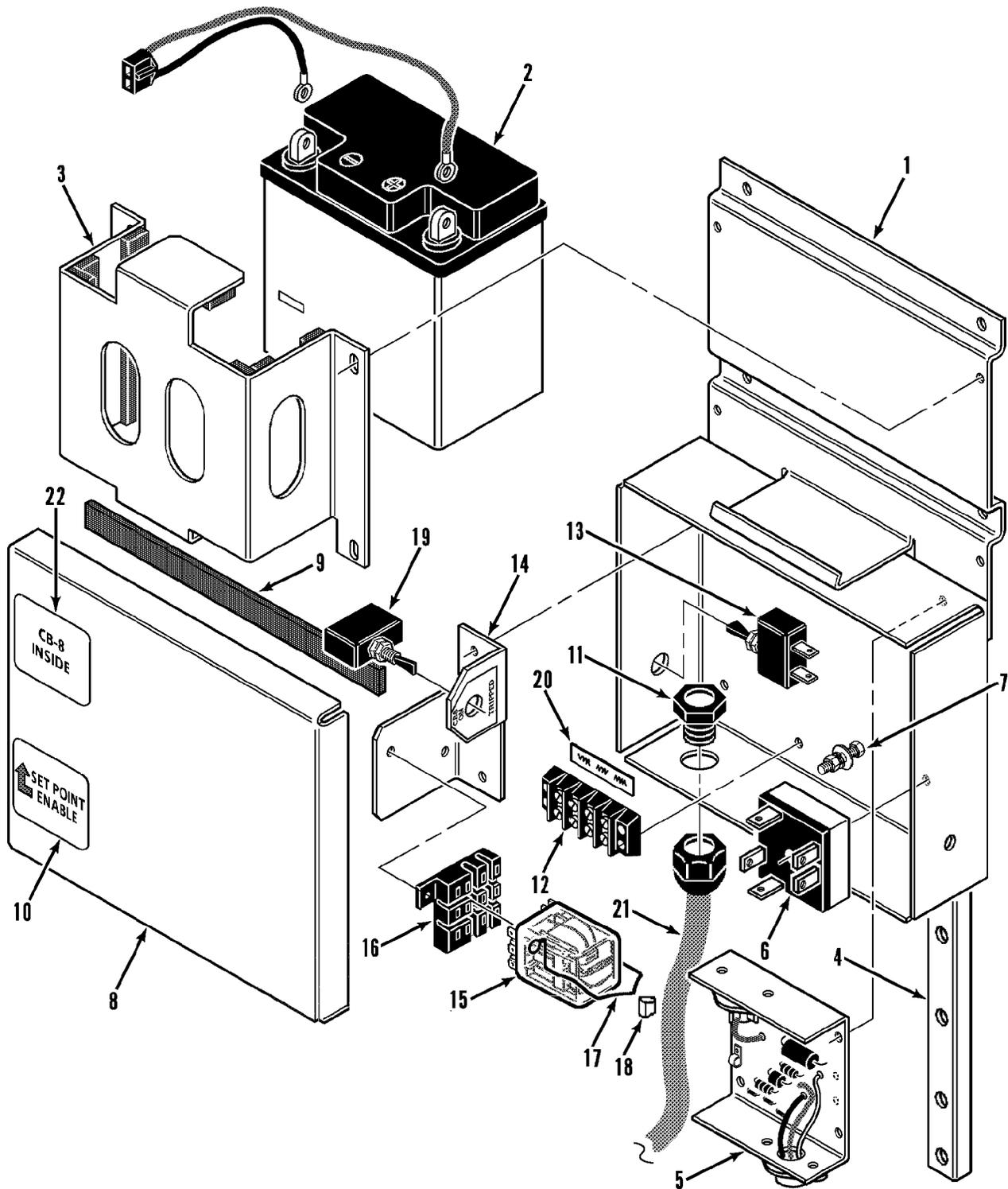


REF	PART#	DESCRIPTION	QTY
1	91-4997	BRACKET - circuit breaker	1
2	99-7834	NAMEPLATE - Caution	1
3	91-2458	NAMEPLATE - Circuit Breaker	1
4	44-5114	POST - binding	1
5	44-3280	RECTIFIER	2
	203-454	MASTIC - heat transfer	A/R
	55-3256	SCREW - rectifier	4
	55-3013	FLATWASHER	8
	55-3014	LOCKWASHER	4
	55-2999	NUT	4
6	91-2459	BRACKET - relay	1
	55-3025	SCREW - relay bracket	2
	55-2001	FLATWASHER	2
	55-2964	LOCKWASHER	2
7	44-3184	SOCKET - relay	1
8	41-135	RELAY (3pdt)	1
	44-6451	CONNECTOR (1 pin, male)	1
9	99-2027	SPRING	1
	55-2270	RIVET	2
	55-2771	CLAMP	1
10	44-6558	BREAKER - circuit (1.5 amp)	1
11	44-6557	BREAKER - circuit (3.0 amp)	3
12	44-5996	BREAKER - circuit (5.0 amp)	1
13	44-6180	BREAKER - circuit (1.0 amp)	1
14	44-6949	BREAKER - circuit (25 amp)	1
	55-3513	SCREW - circuit breaker	4
	55-3013	FLATWASHER	4
	55-3014	LOCKWASHER	4
15	41-170	HARNESS - circuit breaker	1
16	204-209	LEAD - thermistor (16 ft)	1
	203-524	LUBRICANT - multi-purpose	A/R



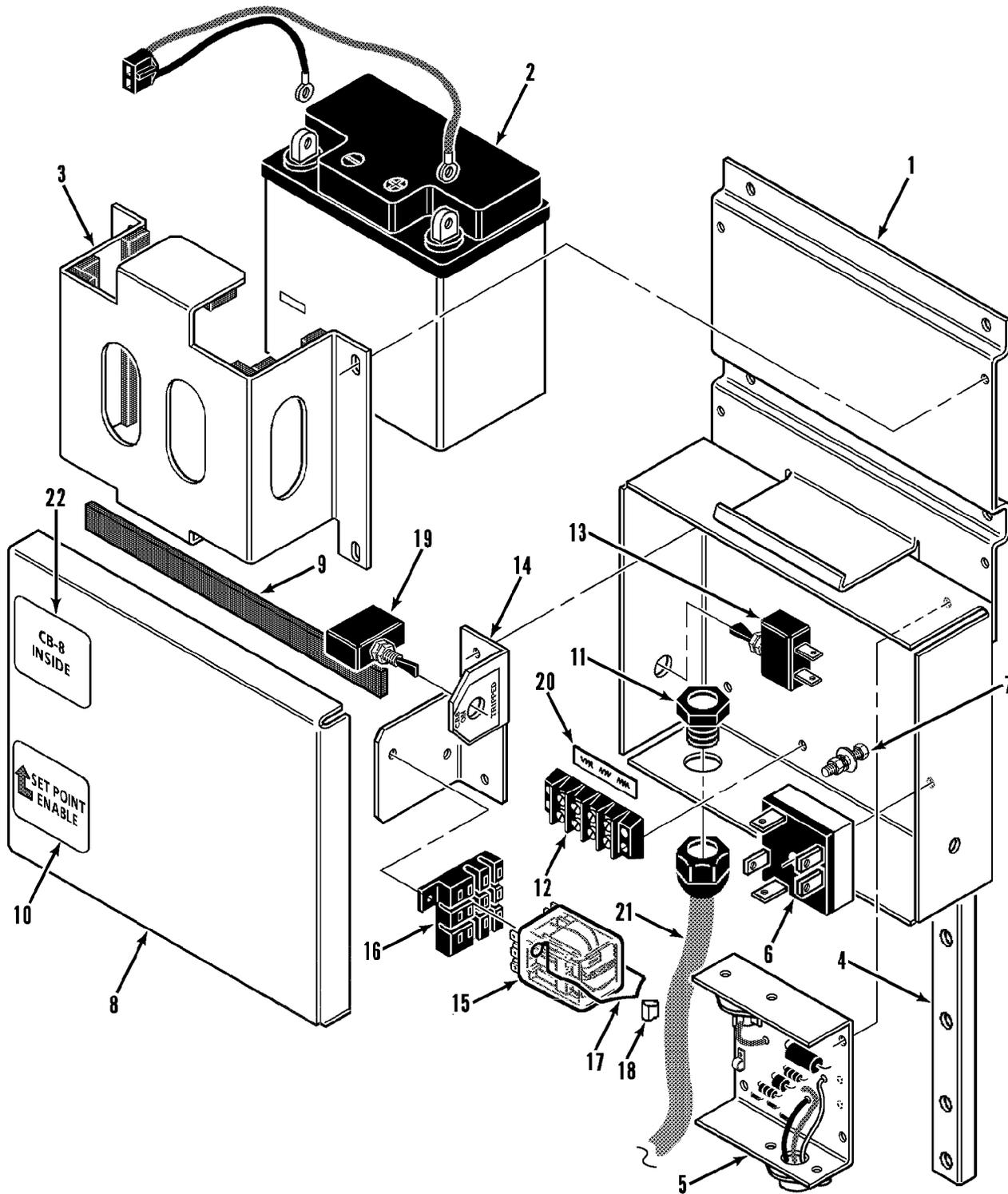


REF	PART#	DESCRIPTION	QTY
1	91-2490	BRACKET & BOX - battery	1
2	203-525	BATTERY & HARNESS	1
	44-5835	• CONNECTOR - shroud (2 pin)	1
3	91-1264	HOLDER - battery	1
	99-5966	STRIP (neoprene, 1.0 in wide)	A/R
	99-7246	STRIP (neoprene, 0.5 in wide)	A/R
4	99-9610	CHANNEL - support	2
5	44-6591	CHARGER - battery	1
6	44-6553	TIMER - solid state	1
	55-3000	SCREW - timer	1
	55-2001	FLATWASHER	1
	55-3008	WASHER - sealing	1
	55-4560	NUT	1
7	55-3000	SCREW - ground	1
	55-3008	WASHER - sealing	4
	55-2996	LOCKWASHER	1
	55-2965	NUT	1
8	91-2492	COVER - box	1
	55-2997	SCREW - cover	1
	55-3319	WASHER - sealing	1
	55-2086	FLATWASHER	1
9	99-8986	STRIP - gasket (0.75 in wide x 25 ft)	A/R
	99-2221	STRIP - gasket (1.50 in wide x 50 ft)	A/R
10	91-2493	NAMEPLATE - setpoint enable	1
11	55-5111	CONNECTOR - liquid tite	1
12	44-5534	BOARD - terminal	1
13	44-6559	SWITCH - setpoint enable	1
	44-739	BOOT - switch	1
14	91-2491	ANGLE - relay	1
	55-2269	SCREW - angle	2
	55-2001	FLATWASHER	4
	55-4560	NUT	2
15	44-3186	RELAY (3pdt)	1
16	44-3184	SOCKET - relay	1
17	99-2027	SPRING - holddown	1
18	55-2771	CLAMP - speednut	1
19	44-6557	BREAKER - circuit	1
20	91-2505	MARKSTRIP	1



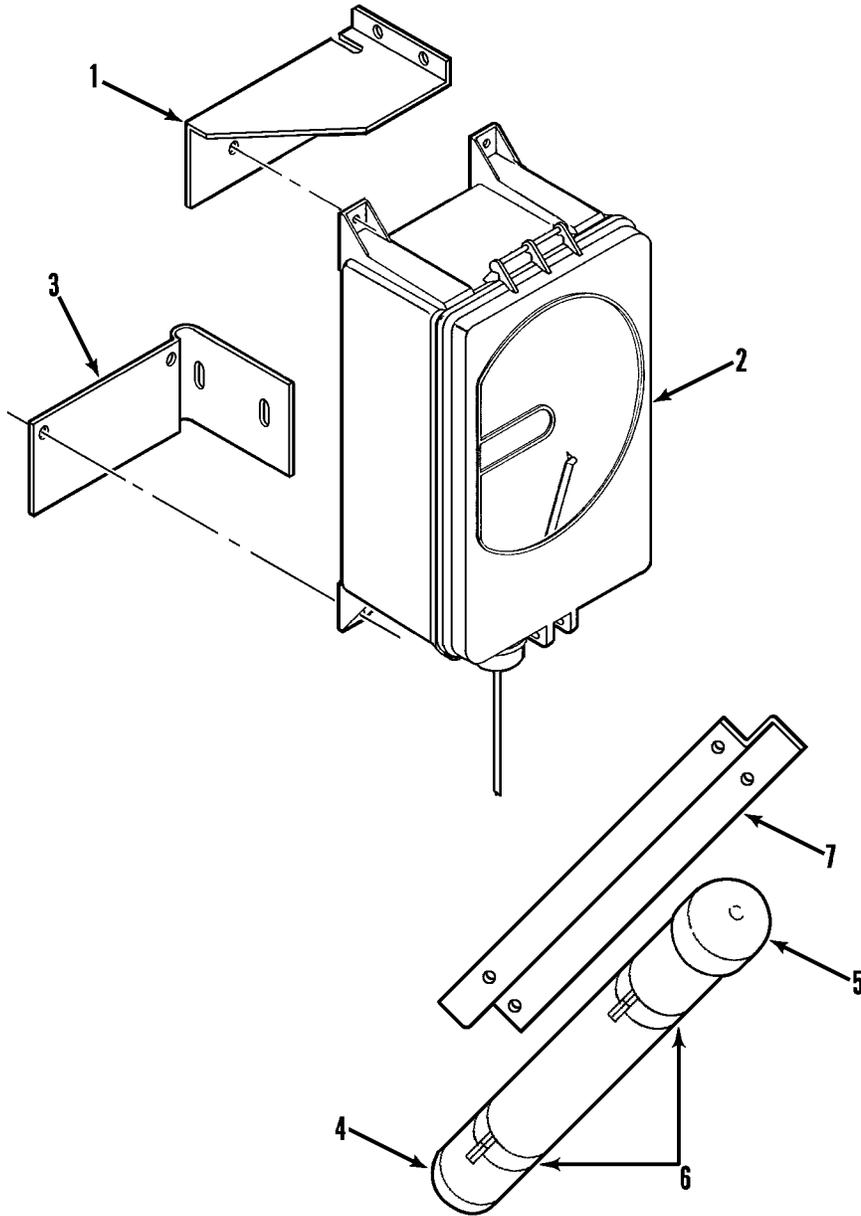


REF	PART#	DESCRIPTION	QTY
1	91-3239	BRACKET & BOX - battery	1
2	203-382	BATTERY & HARNESS	1
	44-5835	• CONNECTOR - shroud (2 pin)	1
3	91-3242	HOLDER - battery	1
	99-5966	STRIP (neoprene, 1.0 in wide x 50 ft)	A/R
4	99-9610	CHANNEL - support	2
	55-5691	INSERT - threaded (1/4-20)	10
	55-2640	NUT - channel	4
	55-2363	LOCKWASHER	4
	55-2641	FLATWASHER	4
5	44-6591	CHARGER - battery	1
6	44-6553	TIMER - solid state	1
	55-4148	SCREW - timer	1
	55-2001	FLATWASHER	1
	55-3008	WASHER - sealing	1
	55-4560	NUT (hexstop)	1
7	55-3000	SCREW - ground	1
	55-3008	WASHER - sealing	4
	55-2996	LOCKWASHER	1
	55-2001	FLATWASHER	1
	55-2965	NUT (hex)	2
8	91-2492	COVER - box	1
	55-7470	SCREW - cover	1
	55-3319	WASHER - sealing	1
	55-2086	FLATWASHER	1
	55-3059	NUT - captive	1
9	99-8986	STRIP - gasket (0.75 in wide x 25 ft)	A/R
	99-2221	STRIP - gasket (1.5 in wide x 50 ft)	A/R
10	91-2493	NAMEPLATE - setpoint enable	1
11	55-5111	CONNECTOR - liquid tite	1
12	44-5534	BOARD - terminal	1
	55-5070	SCREW - terminal board	2
	55-3013	FLATWASHER	2
	55-4156	WASHER - sealing	2
	55-5754	NUT (hexstop)	2
13	44-6559	SWITCH - setpoint enable	1
	44-739	BOOT - switch	1
14	91-2491	ANGLE - relay	1
	55-2269	SCREW - angle	2
	55-2001	FLATWASHER	4
	55-3008	WASHER - sealing	2
	55-4560	NUT (hexstop)	2



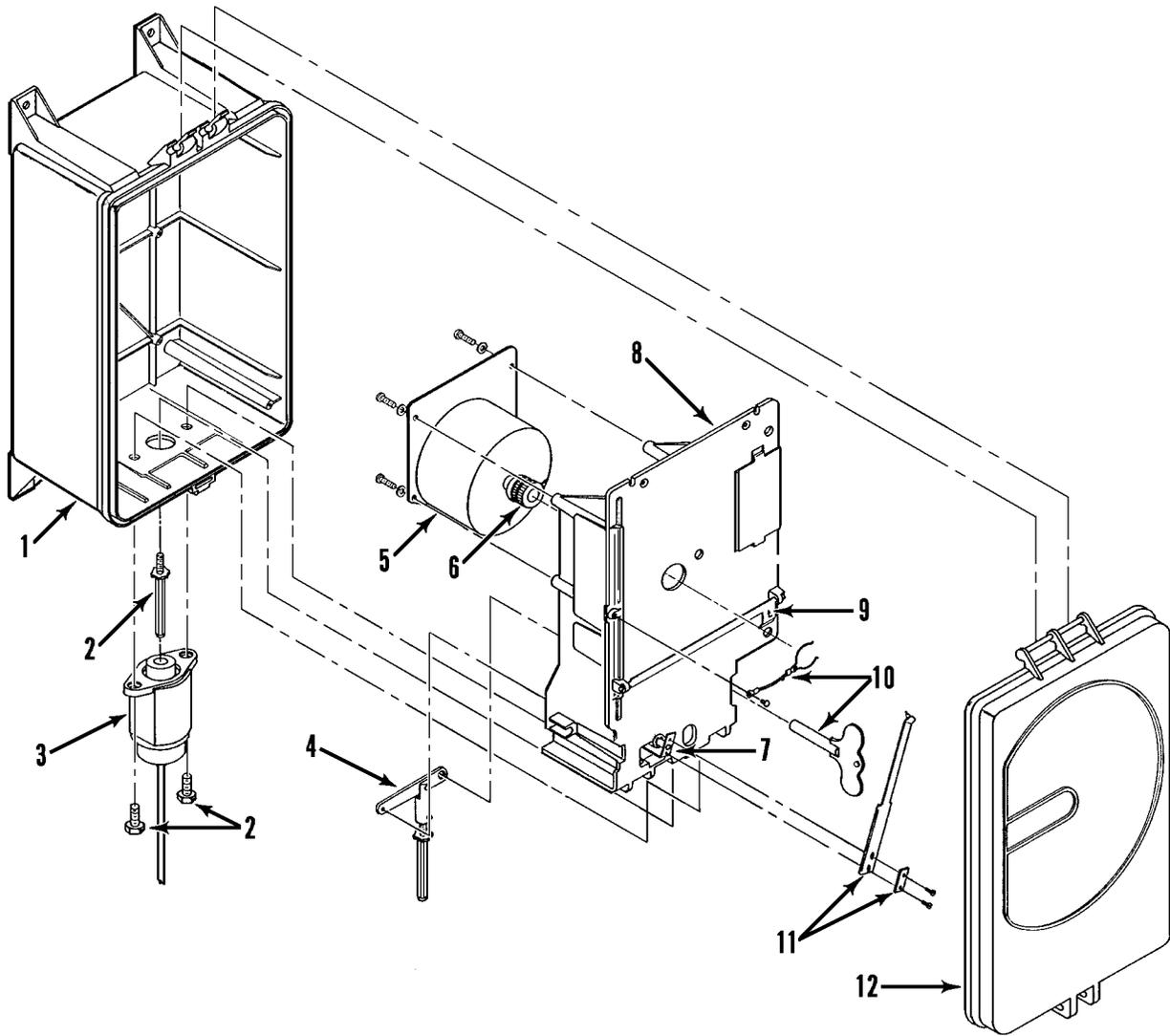


REF	PART#	DESCRIPTION	QTY
15	44-3186	RELAY (3pdt)	1
16	44-3184	SOCKET - relay	1
17	99-2027	SPRING - holddown	1
18	55-2771	CLAMP - speednut	1
19	44-6557	BREAKER - circuit	1
	91-3241	NAMEPLATE - CB-8 on/tripped	1
20	91-3240	MARKSTRIP	1
21	44-9174	HARNESS - battery charger	1
	44-5838	• CONNECTOR - tower (2 pin)	1
	44-5884	• TERMINAL - female (18-20 ga)	2
	44-5885	• SEAL - cable (green, 18-22 ga)	2
22	91-3253	NAMEPLATE - CB-8 inside	1



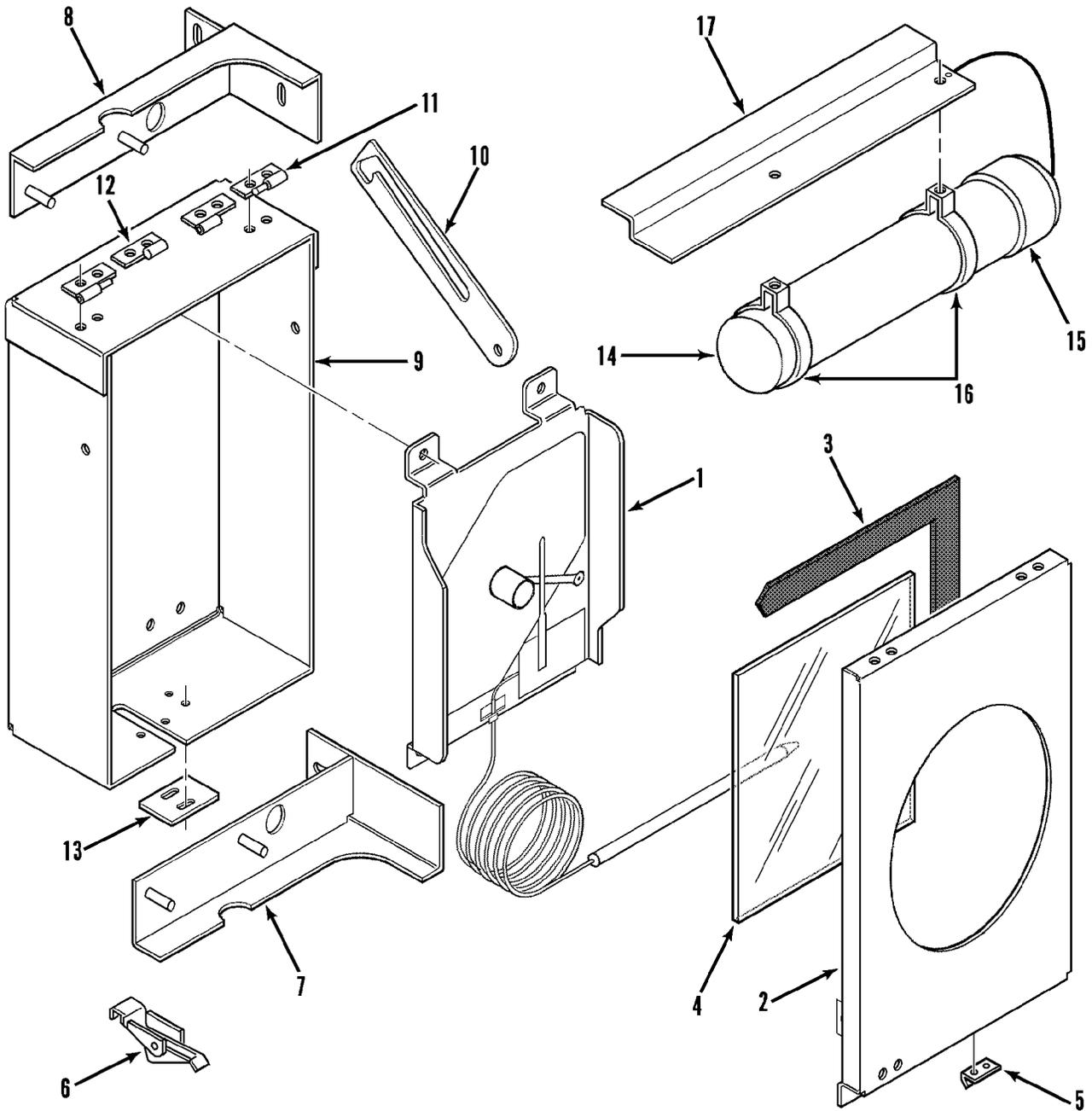


REF	PART#	DESCRIPTION	QTY
1	91-2480	BRACKET - upper	1
2	45-1422	THERMOMETER - recording (see 93F10)	1
	55-1587	SCREW - thermometer	4
	55-1800	LOCKWASHER	4
	55-2086	FLATWASHER	4
	55-4953	NUT (hexstop)	4
3	91-2481	BRACKET - lower	1
	55-2977	SCREW - bracket	4
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
4	99-6455	TUBE - records holder	1
	91-2499	NAMEPLATE - documents	1
5	99-5937	CAP - tube	1
6	99-6266	CLAMP - tube	2
7	91-2482	BRACKET - tube	1
	55-1587	SCREW - bracket	2
	55-1800	LOCKWASHER	2
	55-2086	FLATWASHER	2



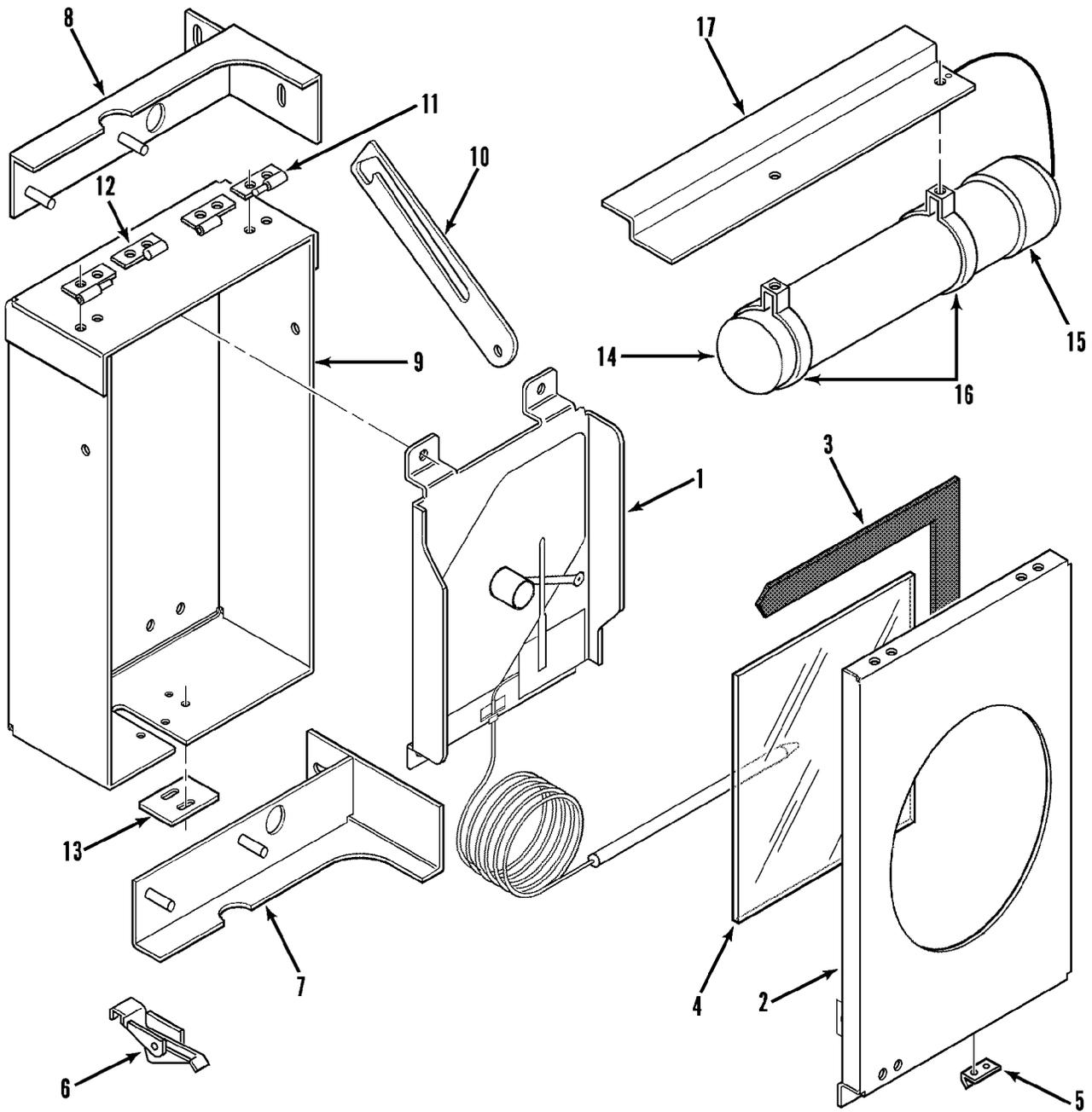


REF	PART#	DESCRIPTION	QTY
	45-1422	THERMOMETER - recording (31 day, spring wound)	1
1	91-2214	• CASE & GASKET	1
2	91-2208	• KIT - push rod (incl push rod screw & 2 element flange screws)	1
3	44-5644	• ELEMENT - thermo (1/2 od, 7.5 in lg bulb, 10 ft capillary)	1
4	91-2212	• KIT - cap & lever (incl 2)	1
5	44-2966	• DRIVE - chart (incl chart flange & nut)	1
6	55-4586	• NUT & CLASP - chart	1
7	55-6755	• HARDWARE KIT (incl 4 E-rings, overtravel spring, 4 screws, 4 lockwashers)	1
8	44-8700	• PLATEN & MECHANISM (incl 2, 5, 9, 10)	1
9	91-2205	• STYLUS (incl lifter, spring, washers)	1
10	91-2209	• KIT - key & cord (incl 6)	1
11	91-2205	• KIT - stylus (incl plate & screws)	1
12	91-2213	• COVER	1
	203-180	CHART (31 day, F)	A/R
	203-219	CHART (31 day, C)	A/R





REF	PART#	DESCRIPTION	QTY
1	45-1831	THERMOMETER - recording (see 107D14)	1
	55-1587	SCREW - thermometer	4
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
	55-1801	NUT (hex)	4
2	91-4215	COVER - box	1
3	99-7849	STRIP - gasket (bulk)	A/R
4	91-4217	WINDOW - cover	1
5	91-4216	PLATE - latch	1
	55-2988	RIVET - blind	2
6	91-4221	LATCH - cover	1
	55-2988	RIVET - blind	2
7	91-4223	BRACKET - box (bottom)	1
8	91-4222	BRACKET - box (top)	1
	55-2997	SCREW - bracket	4
	55-2086	FLATWASHER	8
	55-1800	LOCKWASHER	4
	55-4953	NUT (hexstop)	4
9	91-4214	BOX - thermometer	1
10	99-7230	GUIDE - latch	1
	55-3027	SCREW - guide (top)	1
	55-3000	SCREW - guide (bottom)	1
	55-2001	FLATWASHER	4
	55-4560	NUT (hexstop)	2
11	91-4219	HINGE - right hand	1
12	91-4220	HINGE - left hand	1
	55-3024	SCREW - hinge	8
	55-2001	FLATWASHER	8
	55-2964	LOCKWASHER	8
13	91-4218	PLATE - box (bottom)	1
	55-1844	SCREW - plate	2
	55-2290	NUT	2
	55-2201	FLATWASHER	2
	55-2202	LOCKWASHER	2
14	99-6455	TUBE - records holder	1
	91-2499	NAMEPLATE - documents	1
15	99-5937	CAP - tube	1
16	99-6266	CLAMP - tube	2
	55-3000	SCREW - clamp to tube	2
	55-3027	SCREW - clamp & bracket	2
	55-2001	FLATWASHER	8
	55-4560	NUT (hexstop)	4



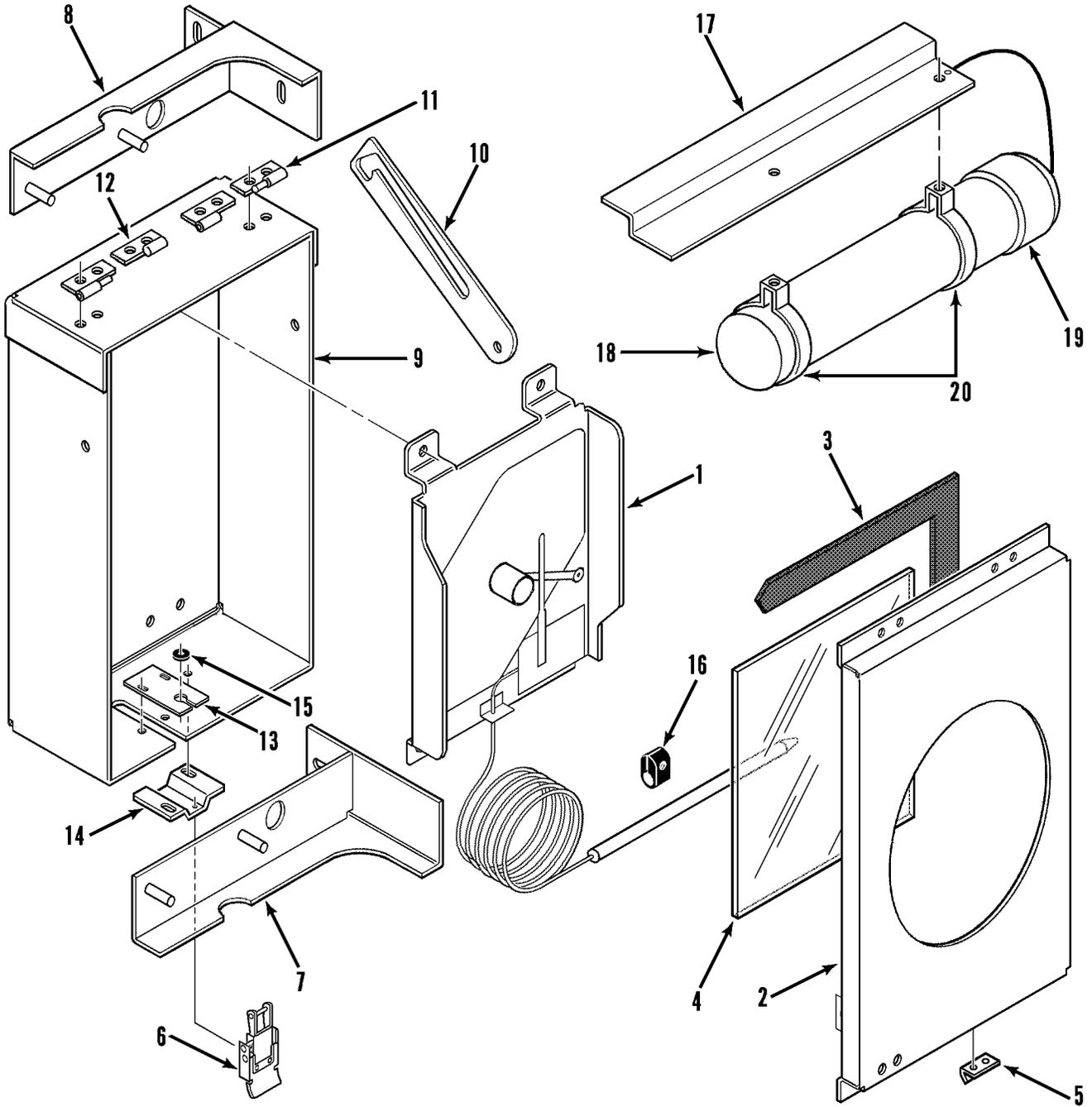


REF	PART#	DESCRIPTION	QTY
17	91-2482	BRACKET - tube	1
	55-3018	SCREW - bracket	2
	55-1800	LOCKWASHER	2
	55-2086	FLATWASHER	2



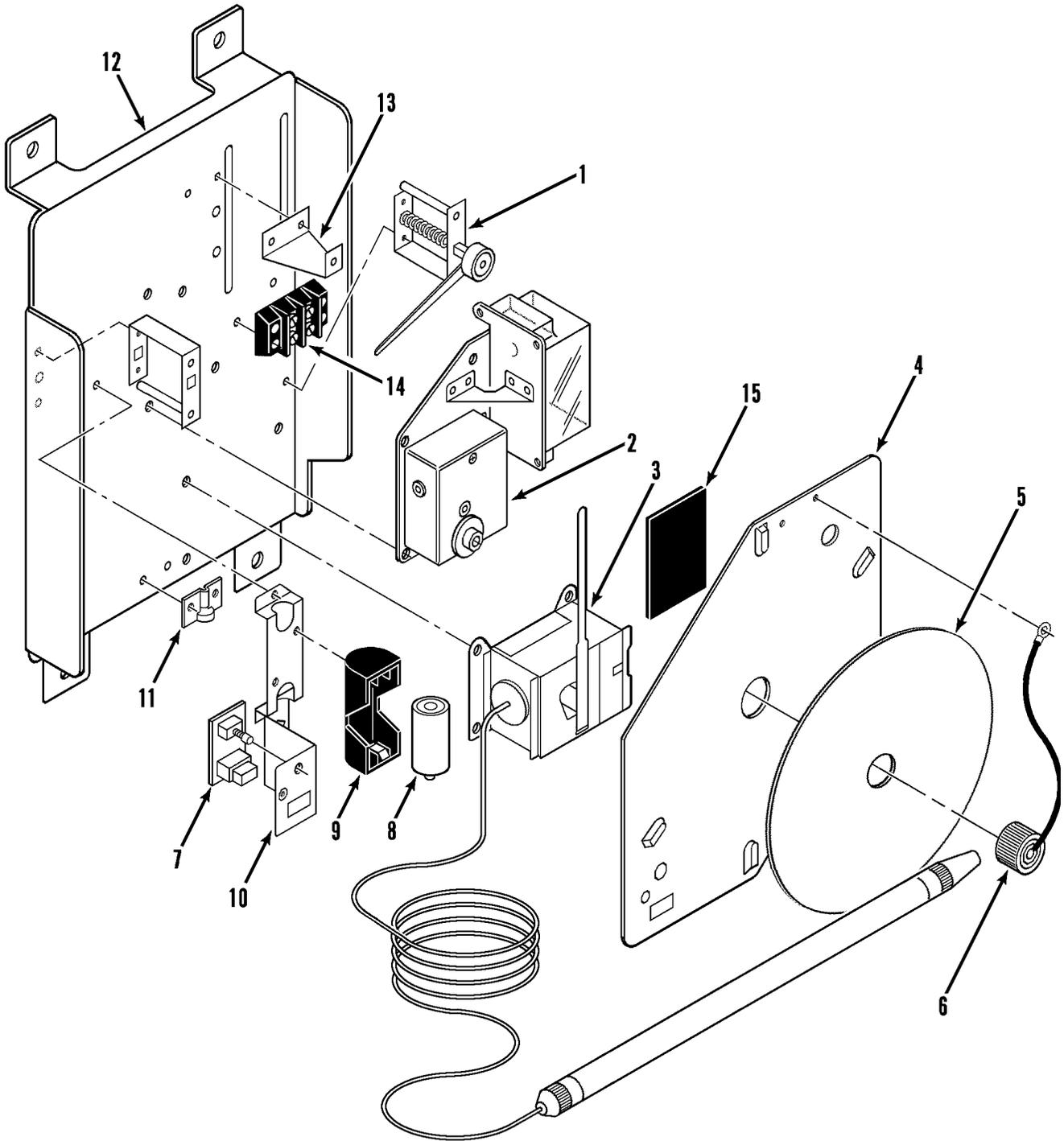


REF	PART#	DESCRIPTION	QTY
1	45-1831	THERMOMETER - recording (see 107D14)	1
	55-1587	SCREW - thermometer	4
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
	55-1801	NUT (hex)	4
2	91-5003	COVER - box	1
3	99-7849	STRIP - gasket (0.62 in wide, bulk)	A/R
	91-5004	STRIP - gasket (1.0 in wide, bulk)	A/R
4	91-4217	WINDOW - cover	1
5	91-5007	PLATE - latch	1
	55-2988	RIVET - blind	2
6	91-5005	LATCH - cover	1
	55-2988	RIVET - blind	2
7	91-4223	BRACKET - box (bottom)	1
8	91-4222	BRACKET - box (top)	1
	55-2997	SCREW - bracket	4
	55-2086	FLATWASHER	8
	55-1800	LOCKWASHER	4
	55-4953	NUT (hexstop)	4
9	91-5002	BOX - thermometer	1
10	99-7230	GUIDE - latch	1
	55-3027	SCREW - guide (top)	1
	55-3000	SCREW - guide (bottom)	1
	55-2001	FLATWASHER	4
	55-4560	NUT (hexstop)	2
	55-2964	LOCKWASHER	1
	55-2965	NUT (hex)	1
11	91-4219	HINGE - right hand	1
12	91-4220	HINGE - left hand	1
	55-3308	SCREW - hinge	8
	55-2001	FLATWASHER	8
	55-2964	LOCKWASHER	8
13	91-4218	PLATE - box (bottom)	1
	55-1844	SCREW - plate/bracket	3
	55-2290	NUT	3
	55-2201	FLATWASHER	3
	55-2202	LOCKWASHER	3
14	91-5006	BRACKET - latch	1
15	33-451	GROMMET	1
16	91-758	CLAMP - sensor	2
	55-5698	SCREW - clamp	2
	55-2001	FLATWASHER	2



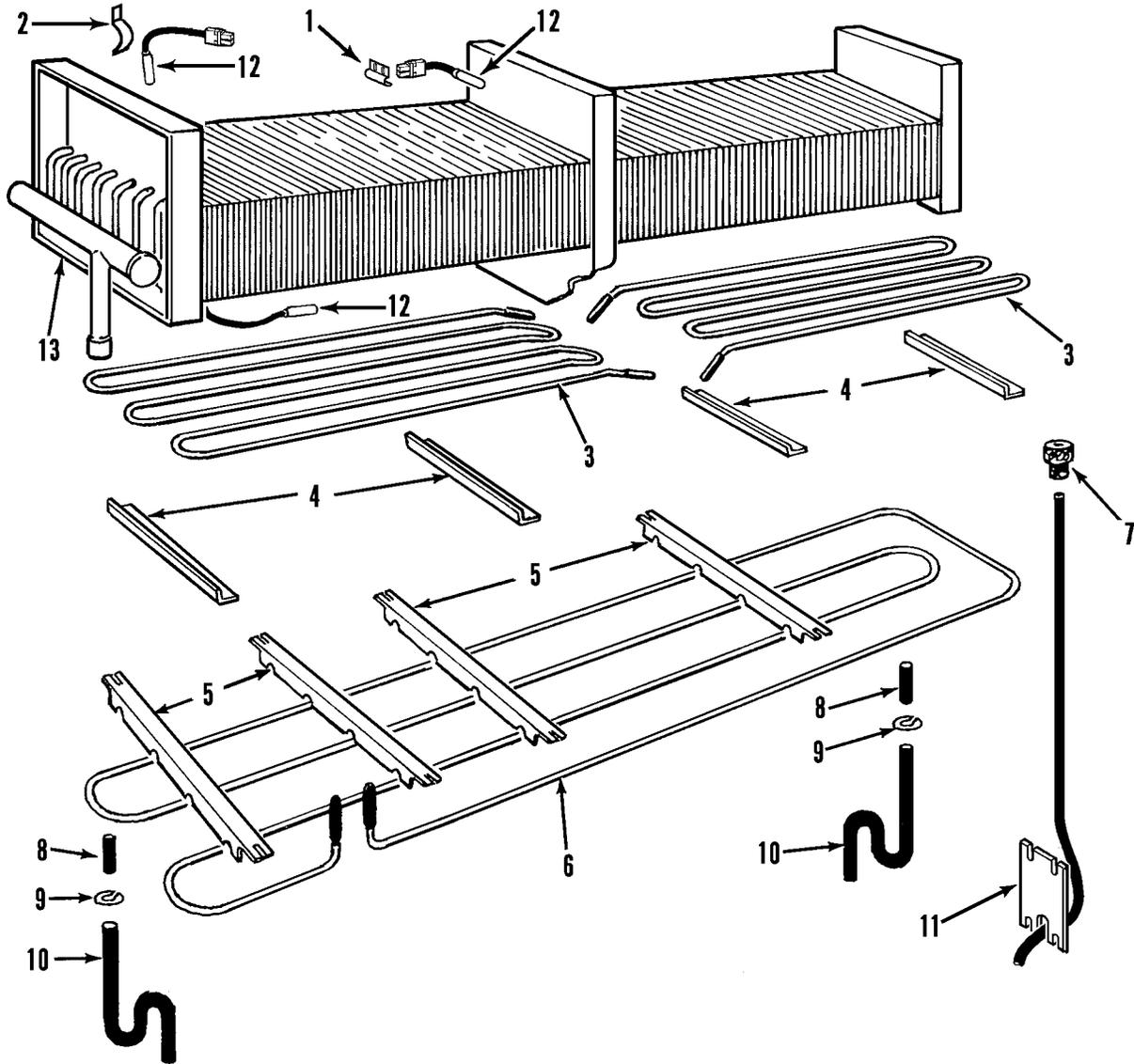


<b>REF</b>	<b>PART#</b>	<b>DESCRIPTION</b>	<b>QTY</b>
	55-4560	NUT (hexstop)	2
17	91-2482	BRACKET - tube	1
	55-3018	SCREW - bracket	2
	55-1800	LOCKWASHER	2
	55-2086	FLATWASHER	2
18	99-6455	TUBE - records holder	1
	91-2499	NAMEPLATE - documents	1
19	99-5937	CAP - tube	1
	55-2988	RIVET - chain	1
20	99-6266	CLAMP - tube	2
	55-3000	SCREW - clamp to tube	2
	55-3027	SCREW - clamp & bracket	2
	55-2001	FLATWASHER	8
	55-4560	NUT (hexstop)	4



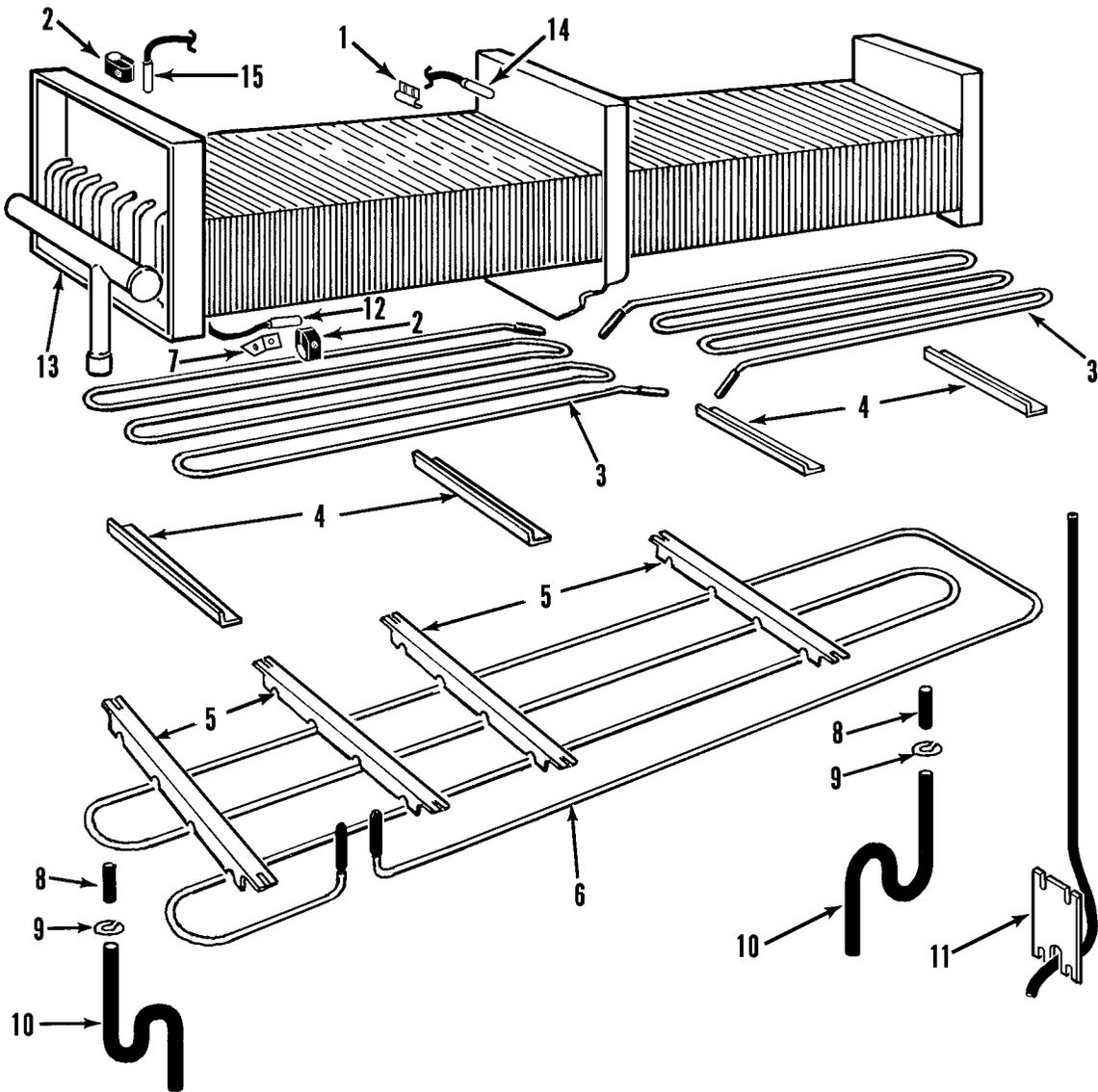


REF	PART#	DESCRIPTION	QTY
	45-1831	THERMOMETER - recording (temperature)	1
1	91-4382	• LIFTER - assembly	1
2	44-9782	• TIMER - assembly	1
3	44-9780	• ELEMENT - power	1
4	91-4380	• PLATE - recorder	1
5	203-219	• CHART - recording paper	1
6	91-4381	• NUT - chart	1
7	44-9781	• INDICATOR - voltage	1
8	NSS	• BATTERY	1
9	NSS	• HOLDER - battery	1
10	NSS	• BRACKET - voltage indicator	1
11	NSS	• BRACKET - sensor	1
12	NSS	• BODY - mounting	1
13	NSS	• BRACKET	1
14	NSS	• BOARD - terminal	1
15	NSS	• PAD (neoprene)	1



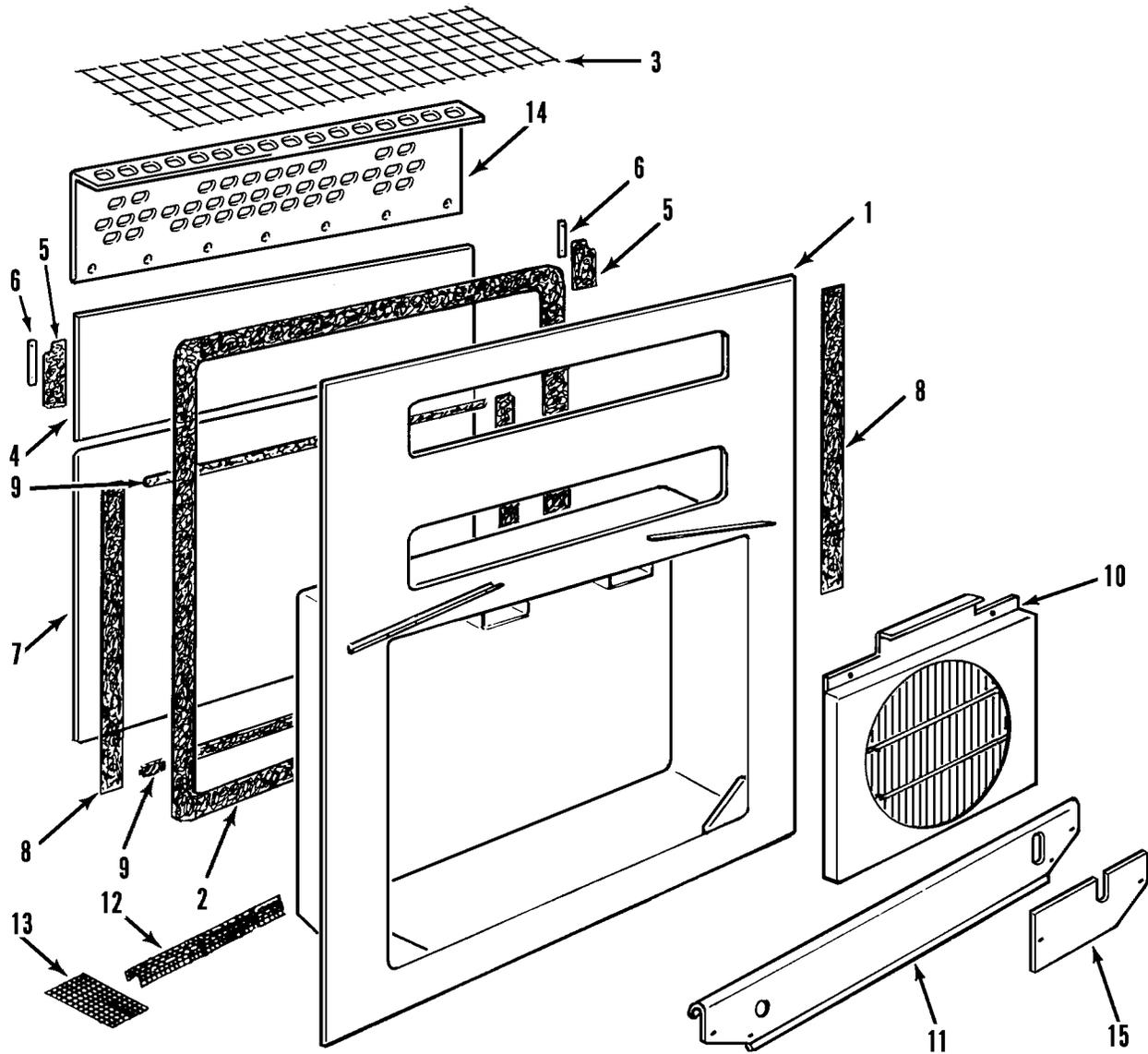


REF	PART#	DESCRIPTION	QTY
1	91-2197	BRACKET - sensor	1
	55-5639	SCREW - bracket	4
2	55-547	CLAMP - sensor	2
	55-5639	SCREW - clamp	2
3	45-1682	HEATER - evaporator coil	2
4	99-8974	BRACKET - heater	4
5	99-8973	BRACKET - drip pan heater	4
	55-3049	SCREW - bracket	16
	55-2001	FLATWASHER	16
6	45-1683	HEATER - drip pan	1
7	33-1925	SEAL - sensor	1
8	99-8977	TUBE - drain	2
9	99-9230	CLIP - drain tube retainer	2
10	99-7103	HOSE - drain	2
11	91-2462	BRACKET - sensor	1
	55-1587	SCREW - bracket	4
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
12	44-9655	SENSOR & PLUG (for connectors see 115D14)	3
	41-418	• SENSOR	1
13	67-1272	COIL - evaporator	1





REF	PART#	DESCRIPTION	QTY
1	91-2197	BRACKET - sensor	1
	55-5639	SCREW - bracket	4
2	55-6388	CLAMP - sensor	2
	55-3031	SCREW - clamp	2
	55-2001	FLATWASHER	4
	55-4560	NUT (hexstop)	2
3	45-1682	HEATER - evaporator coil	2
4	91-3228	BRACKET - evap coil heater	4
5	99-8973	BRACKET - drip pan heater	4
	55-5639	SCREW - bracket	20
6	45-1683	HEATER - drip pan	1
7	91-2203	BRACKET - sensor	1
8	99-8977	TUBE - drain	2
9	99-9230	CLIP - drain tube retainer	2
10	99-7103	HOSE - drain (74 in)	2
11	91-2462	BRACKET - sensor	1
	55-1587	SCREW - bracket	4
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
12	44-5448	SENSOR - discharge air	1
13	67-1272	COIL - evaporator	1
14	44-6565	SENSOR - defrost	1
15	44-5568	SENSOR - return air	1
	91-519	PLATE - switch access	1





REF	PART#	DESCRIPTION	QTY
1	98-5222	FRAME	1
2	99-6968	STRIP - sealing (0.12 x 1 x 50 ft)	A/R
3	98-3354	SCREEN - air	1
	55-7527	SCREW - screen	15
	99-6968	STRIP - sealing (0.12 x 1 x 50 ft)	A/R
	55-5223	FLATWASHER	15
4	98-3425	PANEL (upper)	1
5	33-1693	GASKET - panel	2
6	99-8967	STRIP - gasket support	2
	55-3010	RIVET - strip	6
7	98-4345	PANEL (lower)	1
	55-3098	SCREW - panel	25
	55-5223	WASHER - special	25
	55-3059	NUT - captive	21
8	33-1694	GASKET - panel (vertical)	2
9	99-6968	STRIP - sealing (0.12 x 1 x 50 ft)	A/R
10	98-3202	GRILLE	1
	99-9702	STRIP - foam	2
	55-2979	SCREW - grille	4
	55-1800	LOCKWASHER	4
	55-2086	FLATWASHER	4
11	98-3330	PANEL - compressor	1
	55-1587	SCREW - panel	4
	55-2086	FLATWASHER	4
	55-1800	LOCKWASHER	4
12	98-3056	SCREEN - evaporator (rear)	1
13	99-9233	SCREEN - evaporator (side)	2
	55-2840	RIVET - container	2
	55-2001	FLATWASHER	12
	55-3101	RIVET - blind	10
14	98-4765	SUPPORT - screen	1
15	91-1341	PLATE - compressor panel	1
	55-3021	SCREW - plate	2
	55-2086	FLATWASHER	2
	55-1800	LOCKWASHER	2
	55-5691	INSERT - threaded	2





REF	PART#	DESCRIPTION	QTY
1	91-4019	NAMEPLATE - Caution, Sensitive Electronic Devices	1
2	99-7104	NAMEPLATE - Thermo King	1
3	99-3523	NAMEPLATE - R12	1
4	99-9084	NAMEPLATE - arrow	1
5	99-6783	NAMEPLATE - arrow	1
6	91-8755	NAMEPLATE - Temperature Conversion	1
7	91-2510	NAMEPLATE - Operating Instructions (English)	1
8	91-2546	NAMEPLATE - Operating Instructions (German)	1
9	91-4225	NAMEPLATE - Wiring/Schematic Diagram	1
10	91-4226	NAMEPLATE - Wiring/Schematic Diagram	1
11	91-5015	NAMEPLATE - Wiring/Schematic Diagram (M9, M9A)	1
12	91-5016	NAMEPLATE - Wiring/Schematic Diagram (M9B, M9C)	1
13	99-9234	NAMEPLATE - Fan Universal	1
14	99-9534	NAMEPLATE - American Bureau of Shipping	1
15	91-5017	NAMEPLATE - arrow deg Celsius	1
16	99-9401	NAMEPLATE - Lights Display	1
17	91-4086	NAMEPLATE - Fresh Air Exchange	1
18	99-6828	NAMEPLATE - Documents	1
19	91-3254	NAMEPLATE - Mode Lite Indicator	1
20	91-2500	NAMEPLATE - Safety	1
21	91-5014	NAMEPLATE - Operating instructions	1
22	91-5274	NAMEPLATE - Thermo King (black letters)	1
23	91-5274	NAMEPLATE - Thermo King (black letters)	1

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