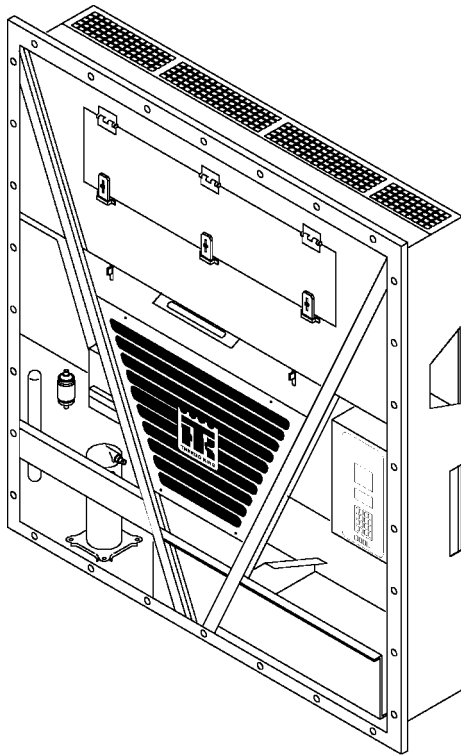


CSR 20 & 40 SLPS

TK 51176-1.0



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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

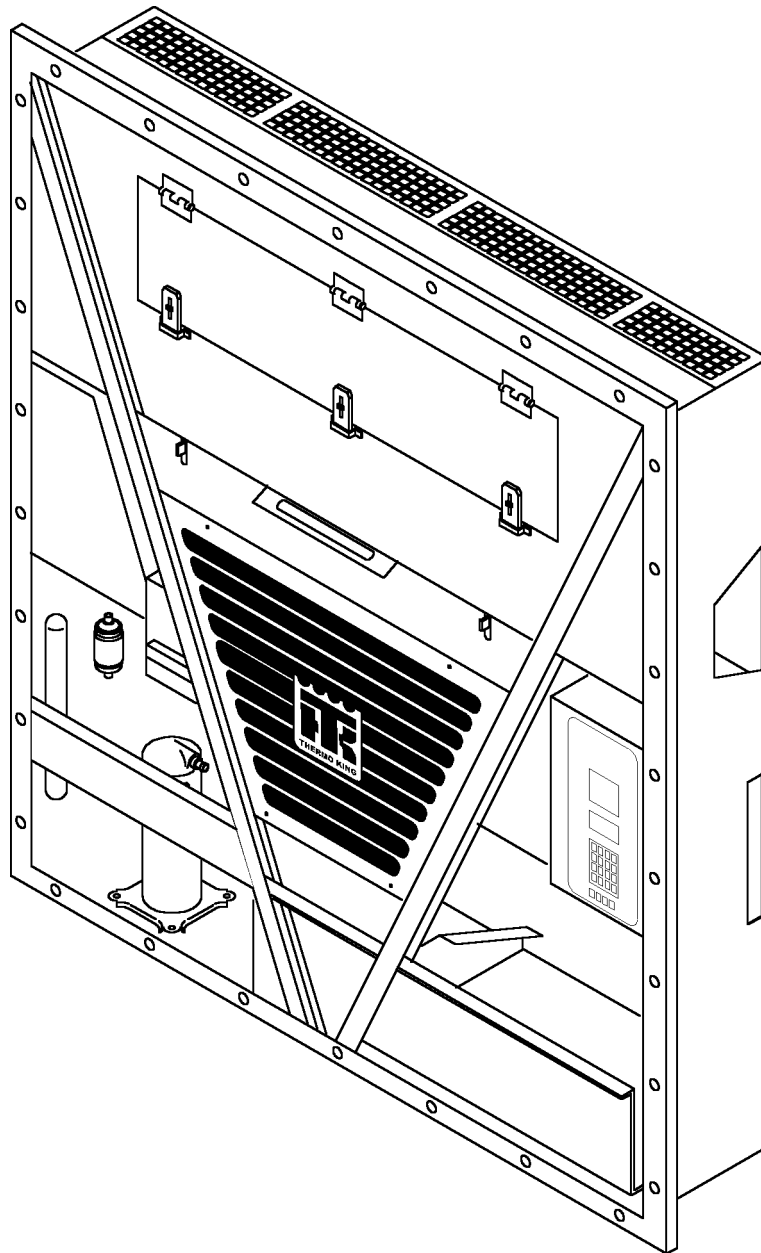
The following abbreviations appear in parts manuals

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

CSR 20 & 40 SLPS

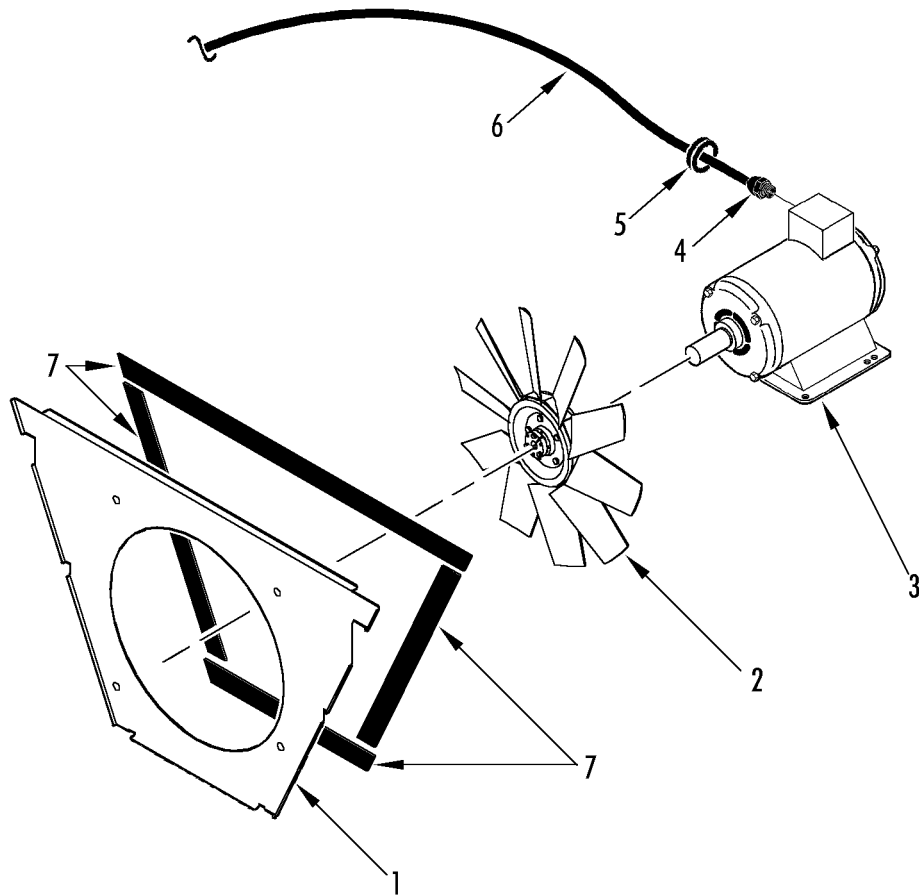
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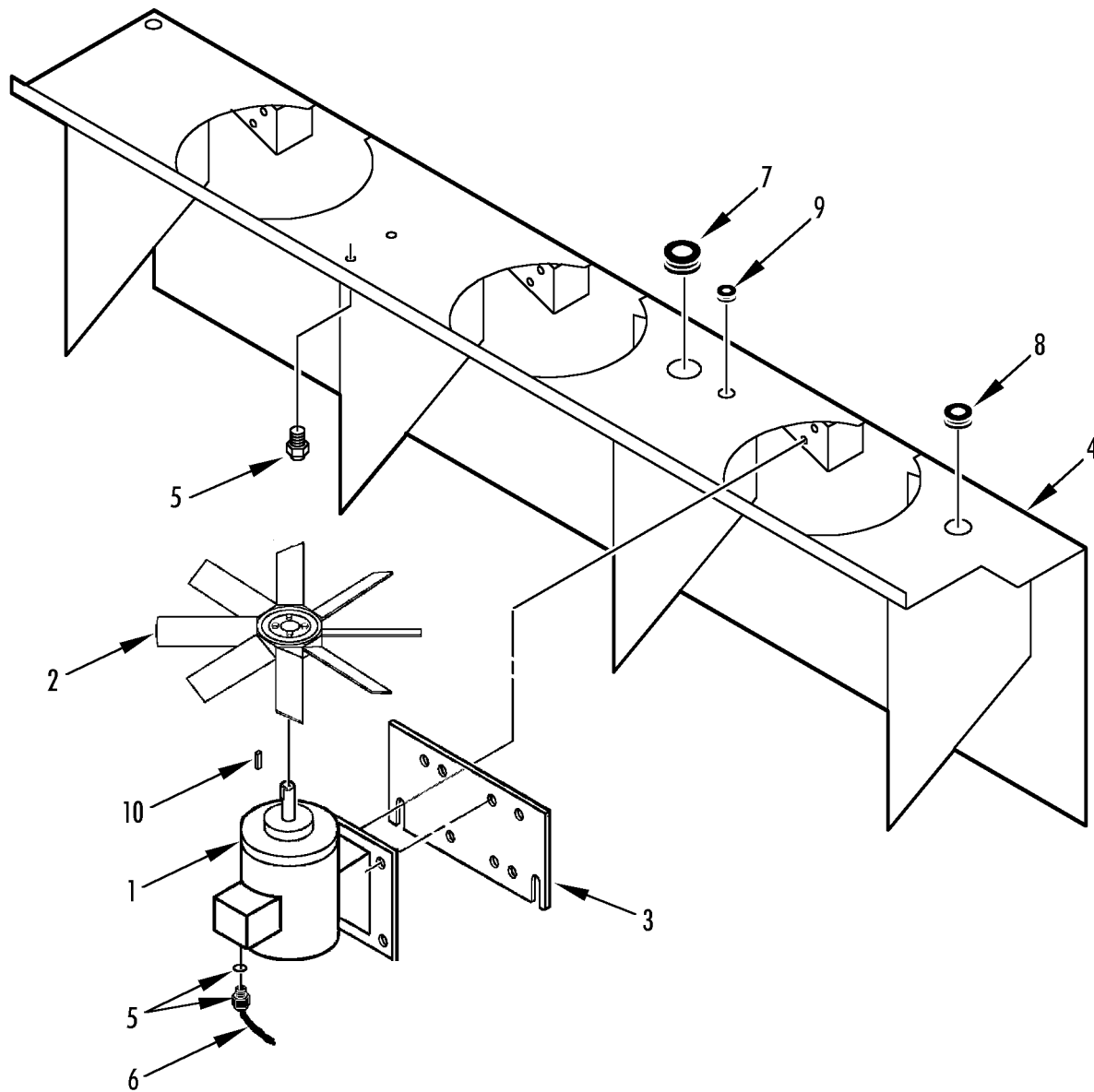


B/M	DESCRIPTION	Date
098911	CSR20 SL	11/99
098913	CSR20 SLPS	11/99
098930	CSR40 SL	3/00
098931	CSR40 SLPS	11/99
917144	CSR20SL-144	11/99
917148	CSR40SLPS-148	3/00
917155	CSR20SLPS-155	3/00
917166	CSR40SLPS-166	5/01
917167	CSR40SLPS-167	11/99
917170	CSR40SLPS-170	11/99
917173	CSR40SL-173	9/01
098503	CSR40SLPS-503	9/01
098505	CSR40SLPS-505	9/01
098506	CSR40SLPS-506	9/01
098508	CSR40SLPS-508	9/01
098026	Recording Thermometer (Saginomiya)	3/00
098144	Remote Monitor	3/00
098152	Transfresh Provision	3/00
098153	Dehumidity	3/00
098157	CSR RMN	11/00
098158	CSR RMN	3/00
098182	Bridge Light	12/00
098188	Dehumidity	12/00



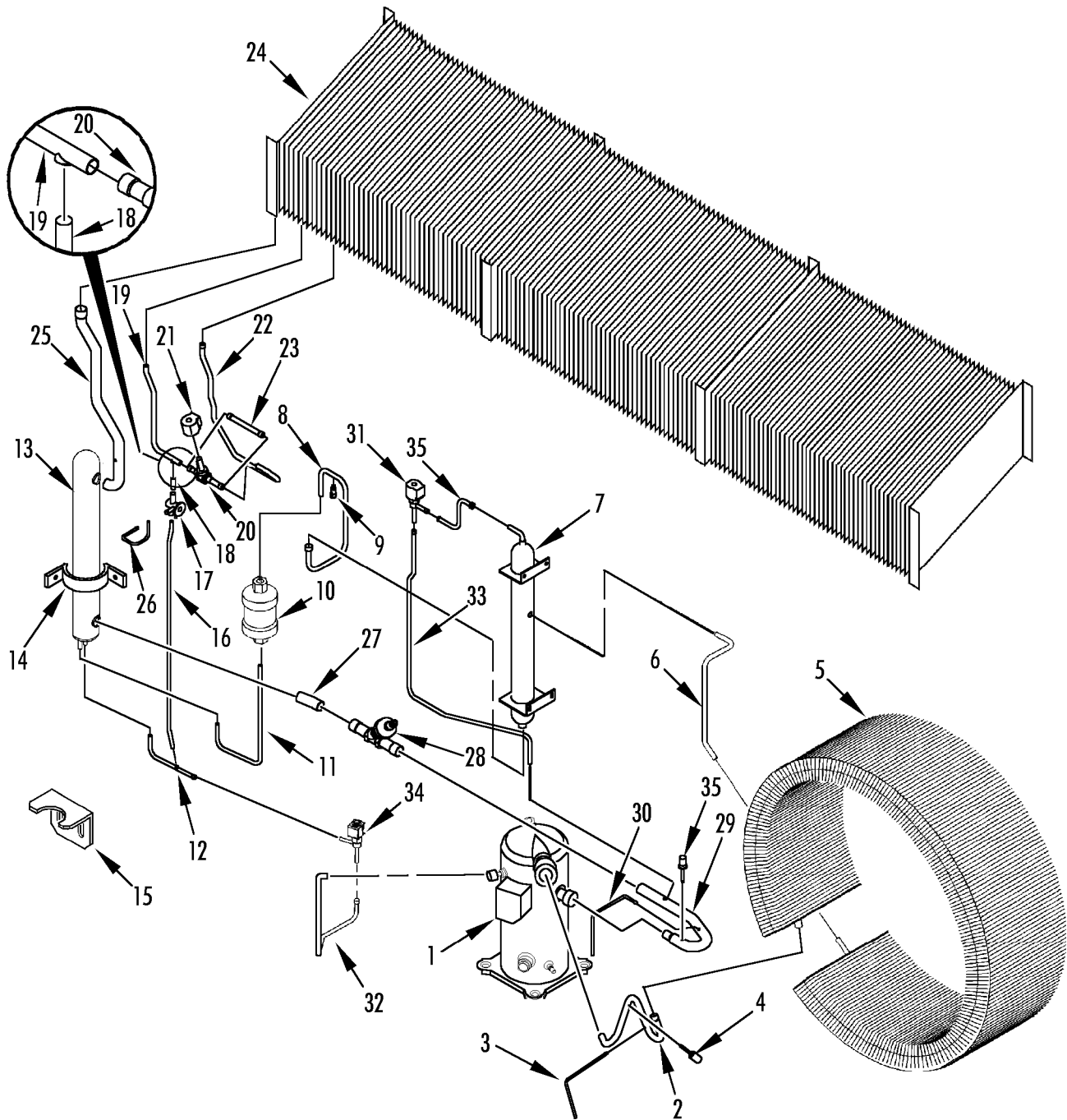


REF	PART#	DESCRIPTION	QTY
1	91-9912	ORIFICE - condenser fan	1
	55-7035	SCREW - orifice	4
	55-3045	WASHER - dome	7
	55-6997	NUT - captive	4
2	78-1173	FAN - condenser	1
	55-8137	SCREW - fan to hub	2
	55-6988	FLATWASHER	2
	55-7066	LOCKWASHER	2
3	104-682	MOTOR - condenser fan (before 6/01)	1
	104-689	MOTOR - condenser fan (6/01 & after)	1
	55-6993	SCREW - motor	4
	55-6988	FLATWASHER	8
	55-7342	LOCKWASHER	4
	55-7339	NUT	4
4	55-8907	GRIP - cable	1
	55-8908	LOCKNUT	1
5	33-367	GROMMET	1
6	41-2953	HARNESS - condenser fan motor	1
	44-8340	TERMINAL - splice	9
7	33-3044	STRIP - sealing	A/R



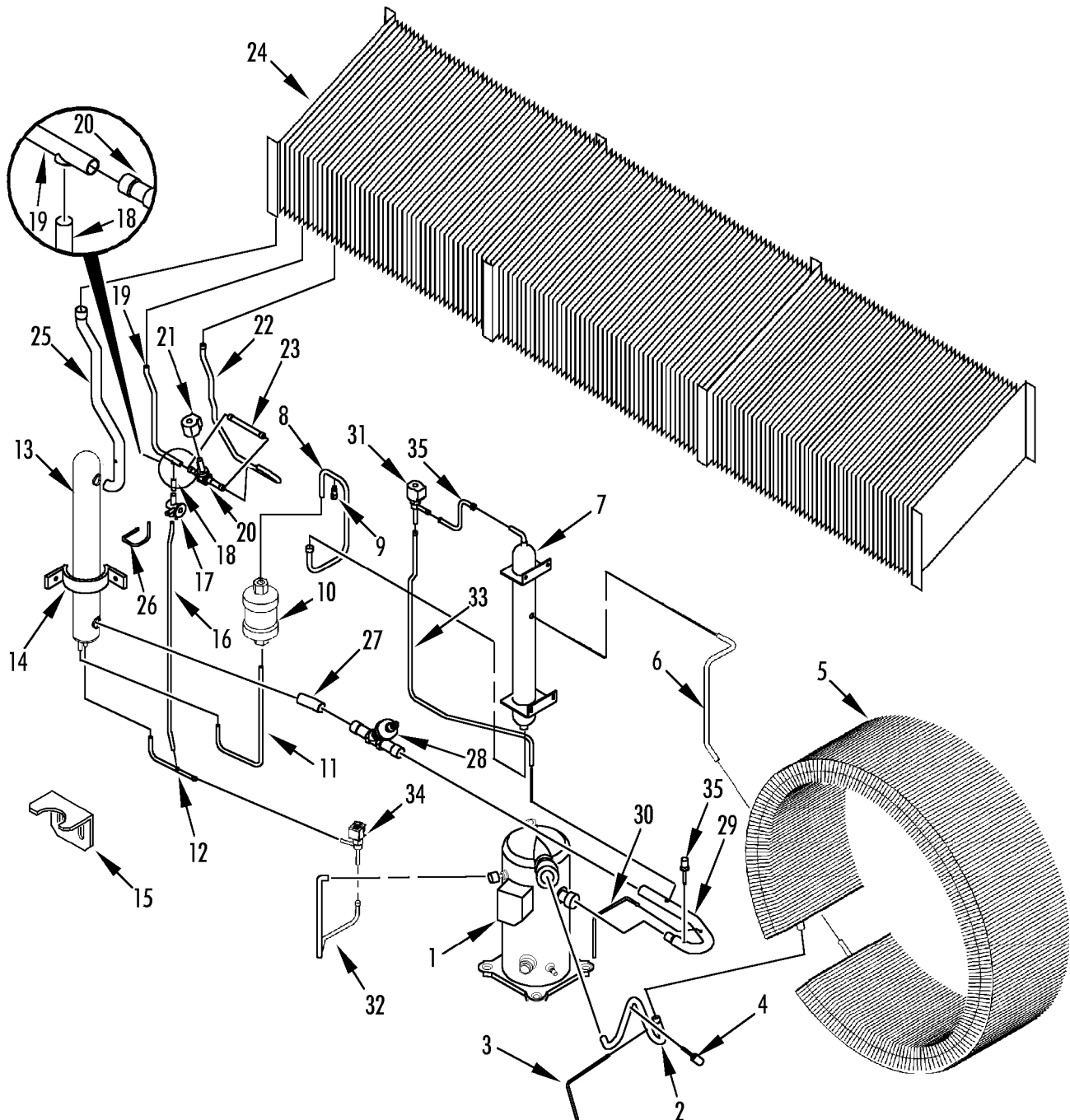


REF	PART#	DESCRIPTION	QTY
1	104-683	MOTOR - evaporator fan (before 8/01)	3
	104-691	MOTOR - evaporator fan (8/01 & after)	1
	44-8340	TERMINAL - motor	20
	55-8883	SCREW - motor (25 mm)	12
	55-8904	FLATWASHER	12
	55-8890	LOCKWASHER	12
	92-425	NUTSTRIP	12
	99-4931	NAMEPLATE - arrow	1
2	78-1196	FAN - evaporator (CSR 20SL, 270 mm dia)	3
	78-1101	FAN - evaporator (CSR 40SL, 312 mm dia)	3
3	91-8466	BRACKET - motor	3
	55-8903	SCREW - bracket	12
	55-8881	FLATWASHER	21
4	98-5642	BRACKET - motor mount (CSR 20SL)	1
	98-5903	BRACKET - motor mount (CSR 40SL)	1
	55-9119	SCREW - bracket	17
5	55-8907	CONNECTOR - harness	4
	55-8908	LOCKNUT	4
6	41-2954	HARNESS - fan motor	1
7	33-2947	GROMMET (47 mm)	1
8	33-2946	GROMMET (37 mm)	5
9	503-364	GROMMET (22 mm)	1
10	55-2947	KEY - fan	3



**REFRIGERATION COMPONENTS (HERMETIC w/
STEPPER VALVE)****158B6**

REF	PART#	DESCRIPTION	QTY
1	102-671	COMPRESSOR - scroll (see 152A4)	1
2	61-166	TUBE - elbow to valve	1
3	61-184	TUBE - discharge process	1
4	41-3394	SWITCH - high pressure cutout	1
5	67-1440	COIL - condenser	1
	55-6994	SCREW - coil	7
	55-8216	FLATWASHER	7
	55-9054	WASHER	7
6	61-168	TUBE - coil to receiver tank	1
7	67-1655	TANK - receiver	1
	55-6994	SCREW - tank	4
	55-7075	FLATWASHER	8
	55-9207	WASHER (nylon)	4
	55-7042	NUT	4
8	61-169	TUBE - receiver to dehydrator	1
9	66-9428	VALVE - relief	1
10	66-9306	DEHYDRATOR	1
	55-4390	HANGER - dehydrator	1
11	61-164	TUBE - dehydrator to exchanger	1
12	61-162	TUBE - exchanger to tee	1
13	67-1028	HEAT EXCHANGER	1
14	91-8468	CLAMP - exchanger	1
15	91-8469	BRACKET - exchanger	1
	55-7172	SCREW - bracket	4
	55-7075	FLATWASHER	4
16	61-163	TUBE - tee to expansion valve	1
17	61-443	VALVE - expansion	1
18	66-9034	TUBE - expansion valve to tee	1
19	61-165	TUBE - tee to evaporator	1
20	66-9032	VALVE - solenoid (dehumidity, see 147G12, optional)	1
21	41-2399	COIL - solenoid valve	1
22	66-9029	TUBE - valve to evaporator	1
23	66-9159	TUBE (replaces valve)	1
24	67-1654	COIL - evaporator	1
	55-8883	SCREW - coil	8
	55-8882	FLATWASHER (ins 8.4 mm)	14
	55-8881	FLATWASHER (8.4 mm id)	14
25	66-9020	TUBE - exchanger to evaporator	1
26	66-9036	TUBE - equalizer	1
27	66-9933	TUBE - exchanger to valve	1
28	66-9934	VALVE - stepper	1
29	61-182	TUBE - modulation valve to compressor	1



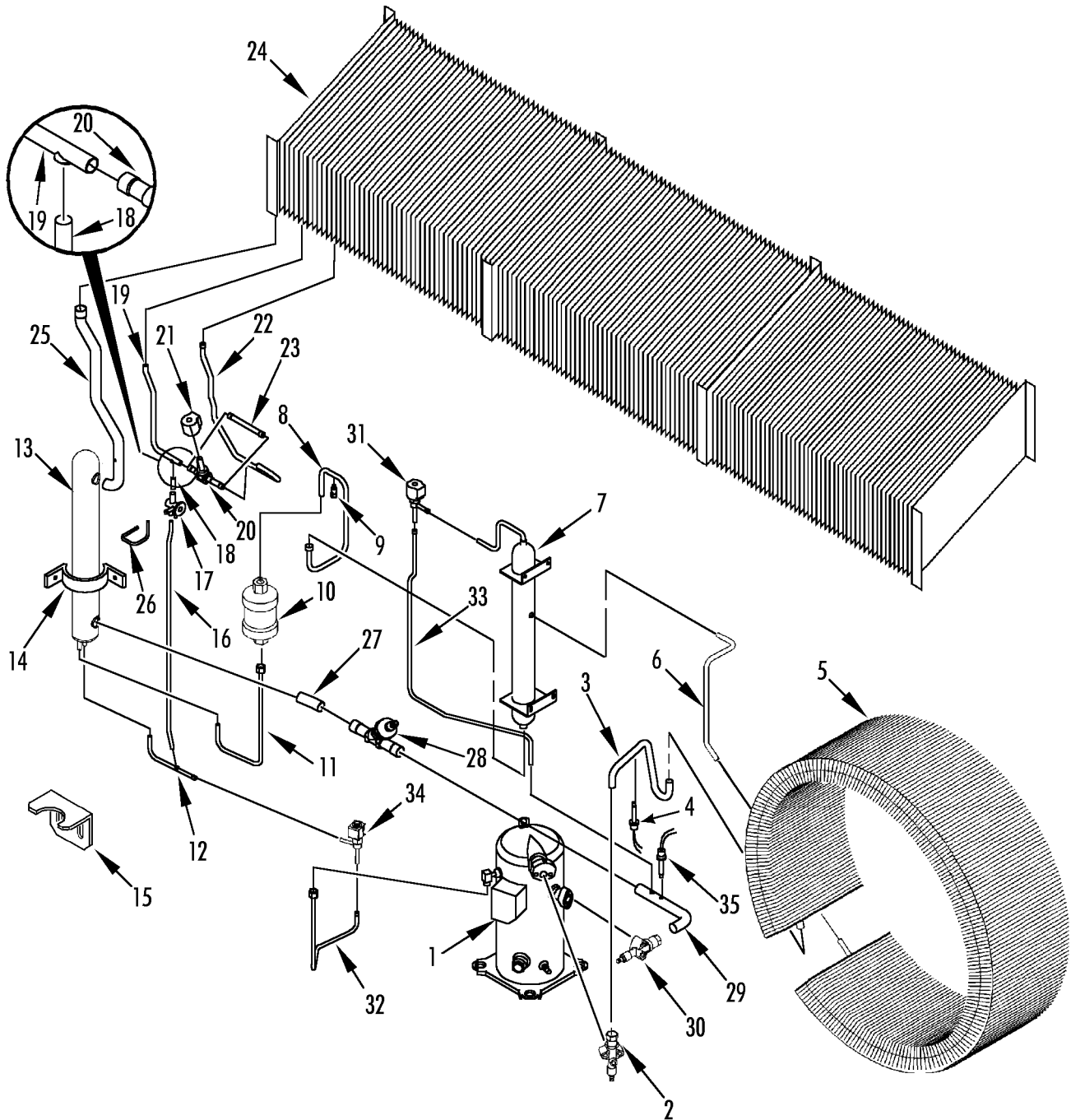
Revised
9/10/01

**REFRIGERATION COMPONENTS (HERMETIC w/
STEPPER VALVE)**



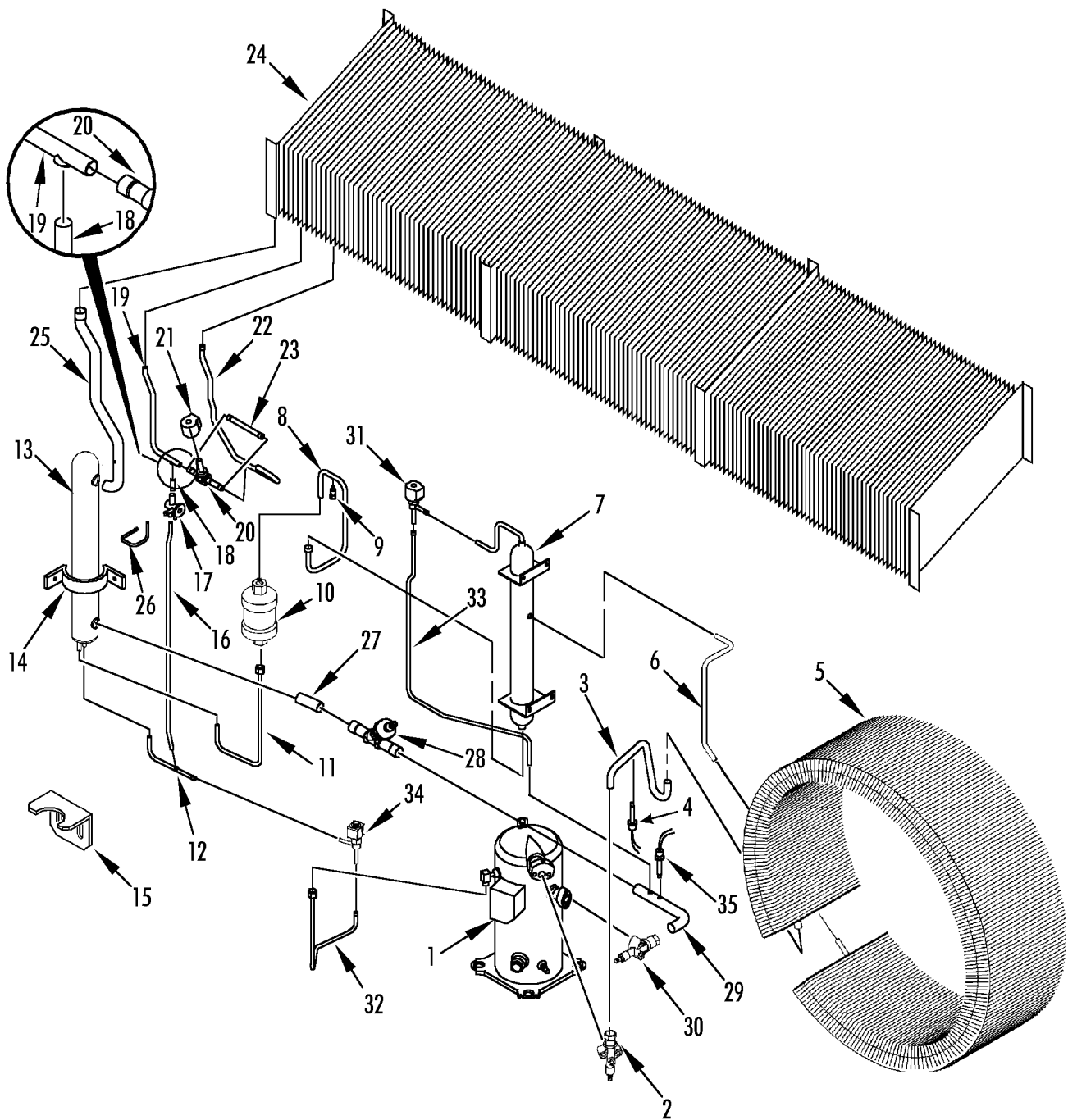
158B6

REF	PART#	DESCRIPTION	QTY
30	61-183	TUBE - suction process	1
31	66-9866	VALVE - solenoid (liquid injection, see 166F6)	1
	41-3301	COIL	1
32	61-159	TUBE - valve to compressor	1
33	66-9936	TUBE - coupling to valve	1
34	66-9953	VALVE - liquid injection	1
	41-3592	COIL - valve	1
35	41-3395	SWITCH - low pressure cutout	1





REF	PART#	DESCRIPTION	QTY
1	102-638	COMPRESSOR - scroll (see 155D13)	1
2	66-3942	VALVE - discharge	1
3	66-9181	TUBE - discharge	1
4	41-3394	SWITCH - high pressure cutout	1
5	67-1440	COIL - condenser	1
	55-6994	SCREW - coil	7
	55-8216	FLATWASHER	7
	55-9054	WASHER	7
6	61-168	TUBE - coil to receiver tank	1
7	67-1613	TANK - receiver	1
	55-6994	SCREW - tank	4
	55-7075	FLATWASHER	8
	55-9207	WASHER (nylon)	4
	55-7042	NUT	4
8	61-169	TUBE - receiver to dehydrator	1
9	66-9428	VALVE - relief	1
10	66-9307	DEHYDRATOR	1
	55-4390	HANGER - dehydrator	1
11	66-9931	TUBE - dehydrator to exchanger	1
12	61-162	TUBE - exchanger to tee	1
13	67-1028	HEAT EXCHANGER	1
14	91-8468	CLAMP - exchanger	1
15	91-8469	BRACKET - exchanger	1
	55-7172	SCREW - bracket	4
	55-7075	FLATWASHER	4
16	61-163	TUBE - tee to expansion valve	1
17	61-443	VALVE - expansion	1
18	66-9034	TUBE - expansion valve to tee	1
19	61-318	TUBE - tee to evaporator	1
20	41-3303	VALVE - solenoid (dehumidity, see 147G12, optional)	1
22	61-682	TUBE - valve to evaporator	1
23	66-9159	TUBE (replaces valve)	1
24	67-1587	COIL - evaporator (CSR 20 SL units w/heater door)	1
	67-1654	COIL - evaporator (CSR 40 SL units w/heater door)	1
	67-1715	COIL - evaporator (CSR 40 SL units w/o heater door)	1
	55-8883	SCREW - coil	8
	55-8882	FLATWASHER (ins 8.4 mm)	14
	55-8881	FLATWASHER (8.4 mm id)	14
25	61-320	TUBE - exchanger to evaporator	1
26	66-9036	TUBE - equalizer	1
27	66-9933	TUBE - exchanger to valve	1
28	66-9934	VALVE - stepper	1



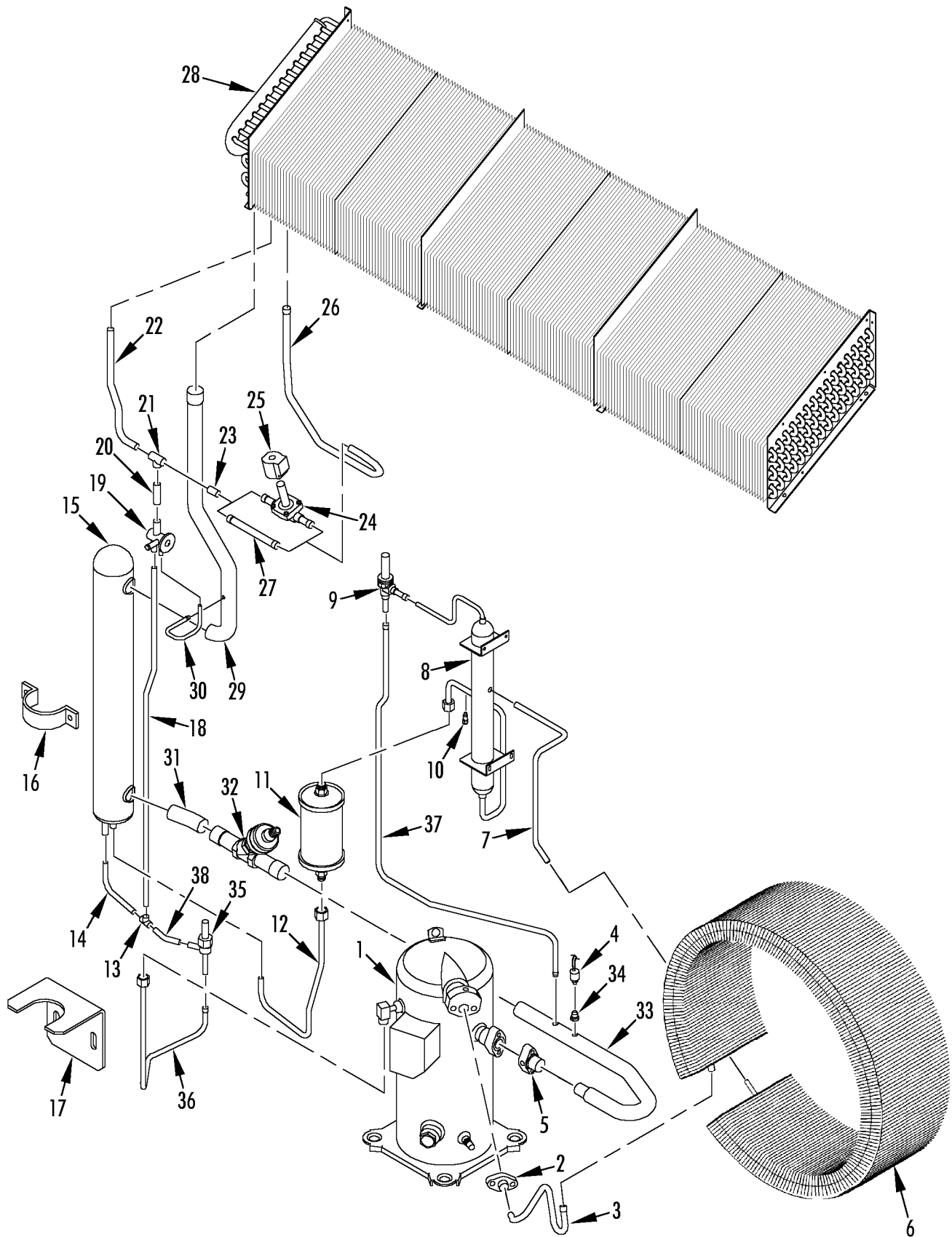
Revised
9/10/01

**REFRIGERATION COMPONENTS (w/STEPPER
VALVE)**



165A6

REF	PART#	DESCRIPTION	QTY
29	66-9935	TUBE - valve to compressor	1
30	66-1916	VALVE - suction	1
31	61-681	VALVE - solenoid (liquid injection)	1
32	61-680	TUBE - valve to compressor	1
33	66-9936	TUBE - coupling to valve	1
34	66-9866	VALVE - liquid injection	1
35	41-4003	SWITCH - low pressure cutout	1

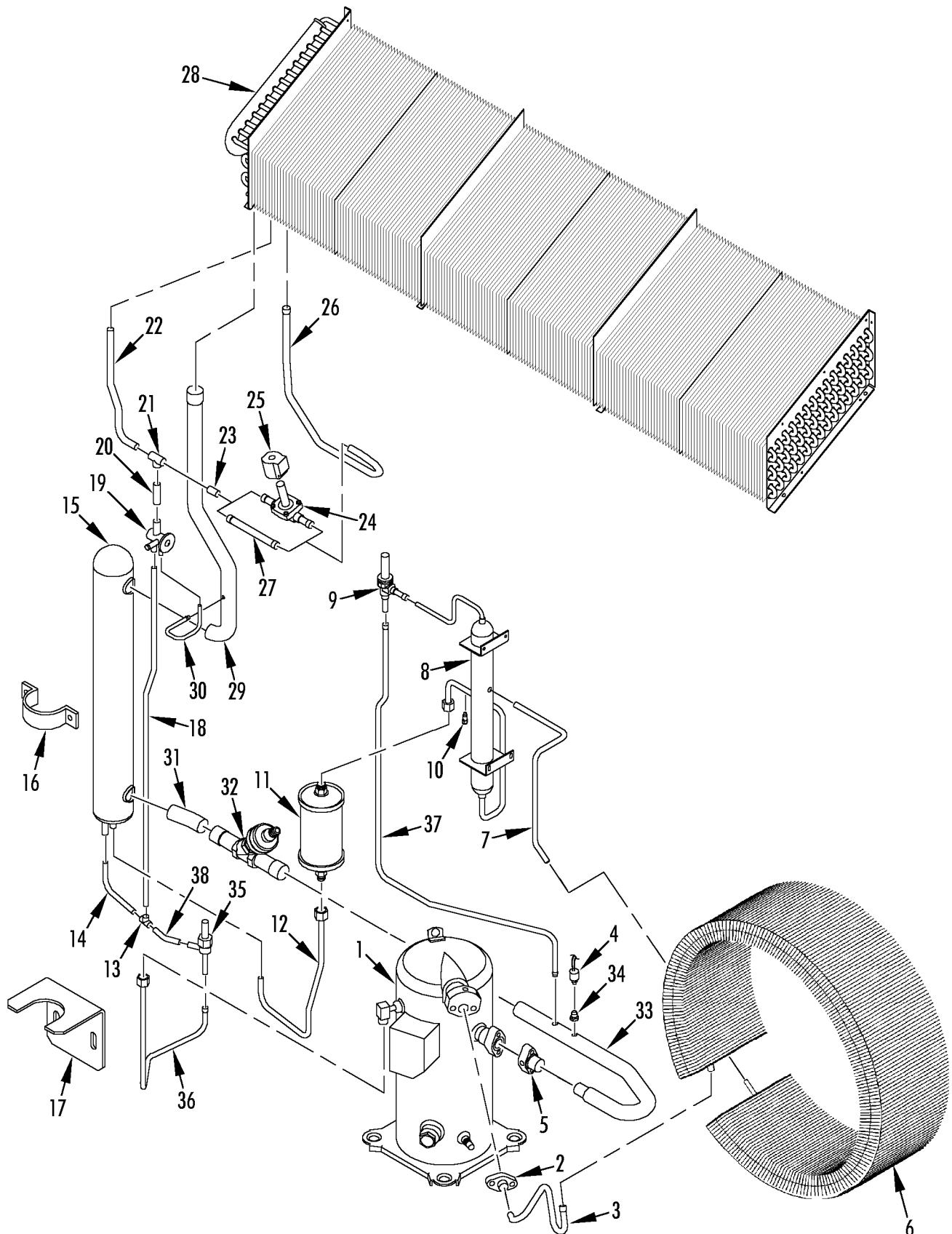


REFRIGERATION COMPONENTS (FLANGED COMPRESSOR, DANFASS VALVES)



170F4

REF	PART#	DESCRIPTION	QTY
1	102-638	COMPRESSOR - scroll (see 158B3)	1
2	61-176	FLANGE - discharge	1
3	61-175	TUBE - elbow to valve	1
4	41-4473	SWITCH - low pressure cutout	1
5	61-172	FLANGE - suction	1
6	67-1440	COIL - condenser	1
	55-6994	SCREW - coil	7
	55-8216	FLATWASHER	7
	55-9054	WASHER	7
7	61-168	TUBE - coil to receiver tank	1
8	67-1792	TANK - receiver (incl item 7)	1
	55-6994	SCREW - tank	4
	55-7075	FLATWASHER	8
	55-9207	WASHER (nylon)	4
	55-7042	NUT	4
9	66-9032	VALVE - solenoid (humidity control, see 157G7)	1
10	66-7392	VALVE - relief	1
	33-1015	O-RING	1
11	66-9307	DEHYDRATOR (o-ring seal)	1
	33-3007	O-RING	2
	55-4390	HANGER - dehydrator	1
	66-9931	TUBE - dehydrator to exchanger	1
	55-8267	NUT - o-ring seal	1
	55-8268	SHOULDER - o-ring seal	1
13	55-3251	TEE	1
14	61-1254	TUBE - exchanger to tee	1
15	67-1028	HEAT EXCHANGER	1
16	91-8468	CLAMP - exchanger	1
17	91-8469	BRACKET - exchanger	1
	55-7172	SCREW - bracket	4
	55-7075	FLATWASHER	4
18	61-1252	TUBE - tee to expansion valve	1
19	61-443	VALVE - expansion	1
20	66-9034	TUBE - expansion valve to tee	1
21	55-2296	TEE	1
22	61-1254	TUBE - tee to evaporator	1
23	66-9035	TUBE - liquid	1
24	41-3303	VALVE - solenoid (dehumidity, see 147G12, optional)	1
25	41-3301	COIL - solenoid valve	1
26	61-1250	TUBE - valve to evaporator	1
27	66-9159	TUBE (replaces valve)	1
28	67-1654	COIL - evaporator	1

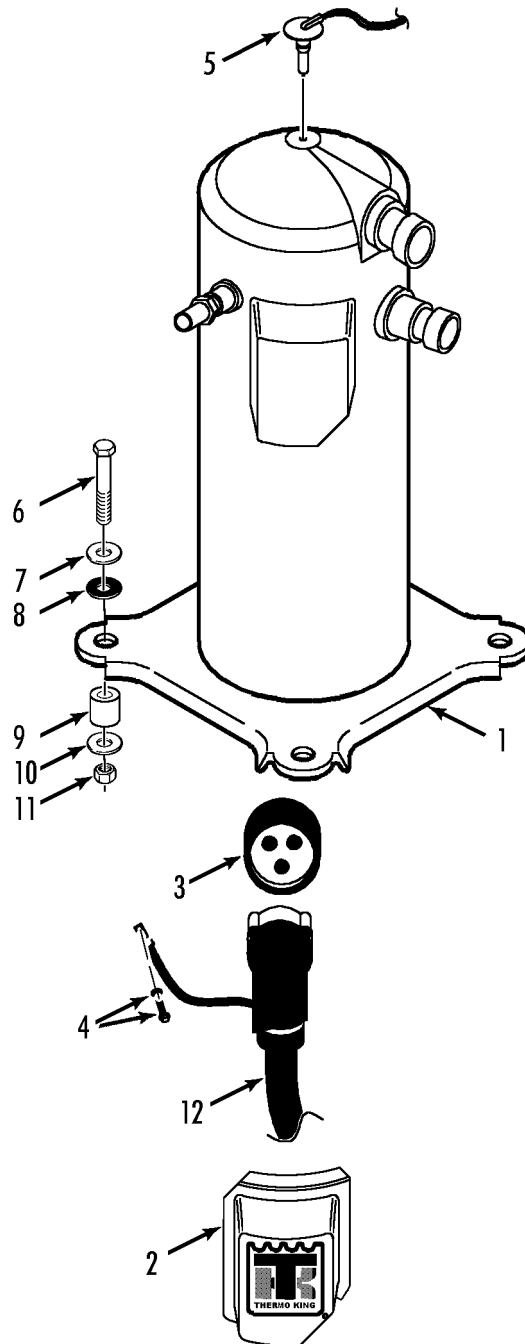


REFRIGERATION COMPONENTS (FLANGED COMPRESSOR, DANFASS VALVES)



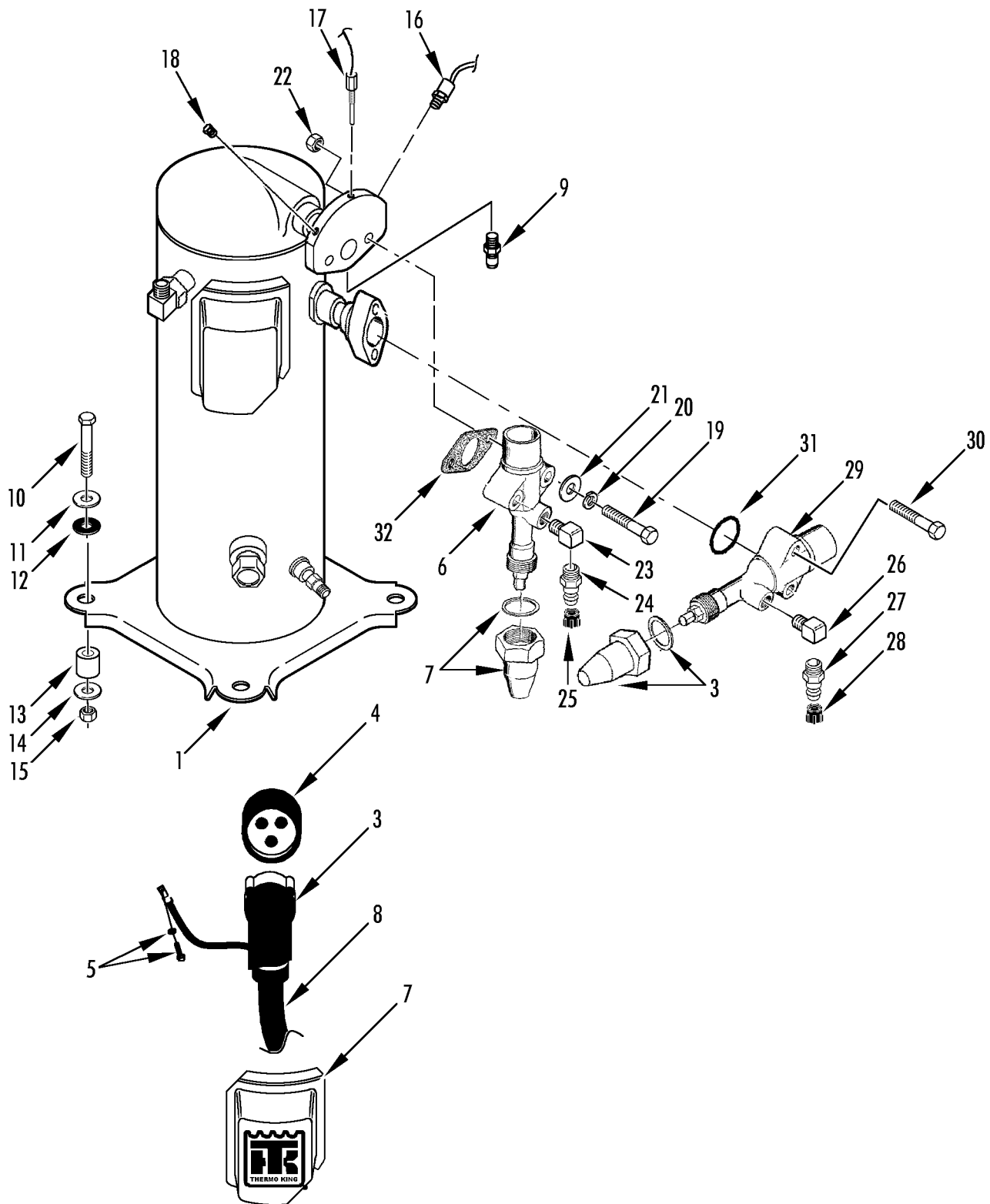
170F4

REF	PART#	DESCRIPTION	QTY
	55-8883	SCREW (25 mm)	8
	55-8882	FLATWASHER (ins 8.4 mm)	14
	55-8881	FLATWASHER (8.4 mm id)	14
29	61-320	TUBE - exchanger to evaporator	1
30	66-9036	TUBE - equalizer	1
31	66-9933	TUBE - exchanger to valve	1
32	66-9934	VALVE - stepper	1
33	61-1248	TUBE - modulation valve to flange	1
	66-874	FITTING - flare	1
34	66-6607	FITTING - low side	1
	66-7183	• CAP - charge port (blue)	1
	66-8054	ADAPTER	1
35	66-9168	VALVE - liquid injection (see 166F6)	1
36	61-1247	TUBE - valve to compressor	1
	55-8267	NUT - o-ring seal	1
	55-8268	SHOULDER - o-ring seal	1
37	61-1249	TUBE - coupling to valve	1
38	61-1253	TUBE - tee to valve	1



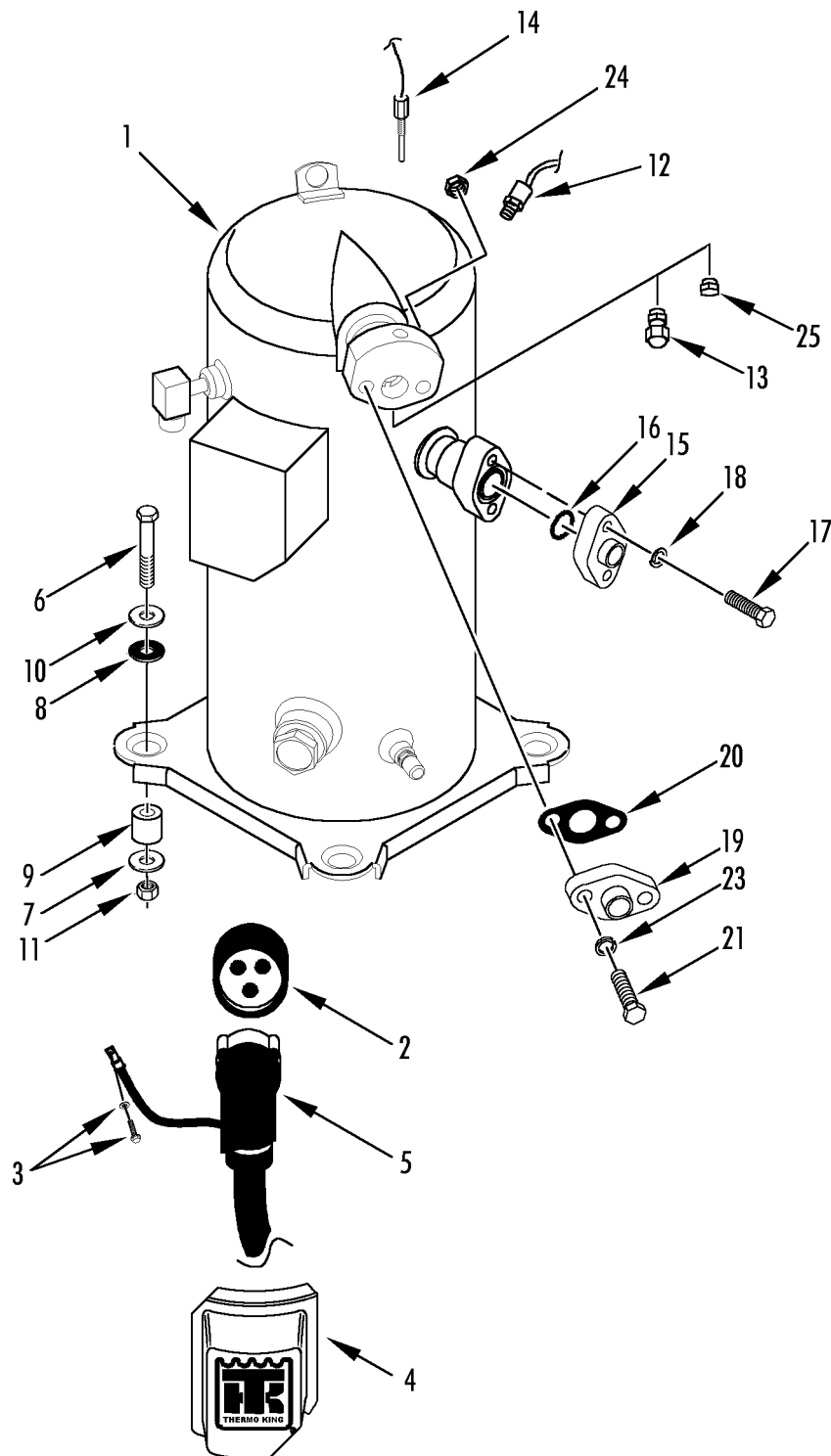


REF	PART#	DESCRIPTION	QTY
1	102-671	COMPRESSOR - hermetic	1
	203-516	• OIL - compressor	1
2	91-9021	• COVER - terminal box	1
	40-779	• KIT - gasket & grease	1
3	33-2951	•• GASKET - power connector	1
	33-2979	•• SEALER - silicone grease pack	1
4	55-8994	•• SCREW - ground	1
	55-8995	•• WASHER - ground	1
5	40-776	KIT - thermistor	1
6	55-8911	SCREW - compressor	4
7	55-8912	FLATWASHER (13 mm)	4
8	55-9012	WASHER - vibration damper	4
	91-1754	PAD - plastic	4
9	55-9013	SPACER	4
10	55-7360	FLATWASHER (12 mm)	4
11	55-8992	NUT	4
12	40-781	CABLE - power	1



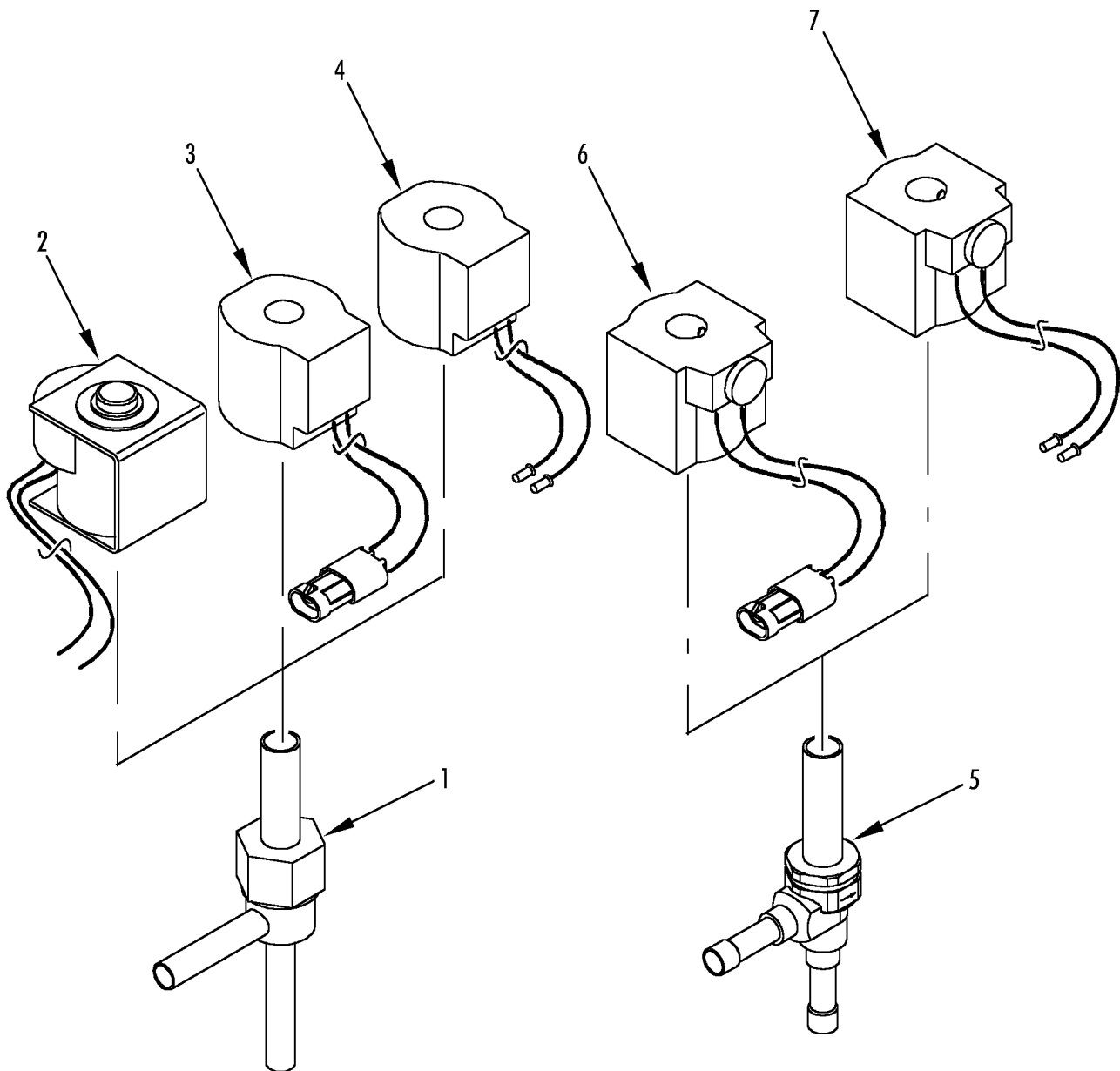


REF	PART#	DESCRIPTION	QTY
1	102-638	COMPRESSOR - scroll (CSR 40)	1
2	91-9021	COVER - terminal box	1
3	40-779	KIT - power cord	1
4	33-2951	• GASKET - power connector	1
	33-2979	• SEALER - silicone grease pack	1
5	55-8994	• SCREW - ground	1
	55-8995	• WASHER - ground	1
6	66-3942	VALVE - discharge	1
7	66-3015	CAP - valve	1
8	40-782	CABLE - power	1
9	11-2886	VALVE	1
	55-7213	BODY (brass)	1
	11-7777	VALVE	1
	55-5672	CAP - valve	1
10	55-8911	SCREW - compressor	4
11	55-8912	FLATWASHER (13 mm)	4
12	55-9012	WASHER - vibration damper	4
13	55-9013	SPACER	4
14	55-7360	FLATWASHER (12 mm)	4
15	55-8992	NUT	4
16	41-4004	SWITCH - high pressure cutout	1
17	41-2447	SENSOR - compressor	1
18	55-3364	PLUG	2
19	55-9171	SCREW - valve	2
20	55-6999	LOCKWASHER	2
21	55-9172	WASHER - sealing	2
22	55-7344	NUT	2
23	66-7812	ADAPTER - highside	1
24	66-6610	FITTING - highside	1
25	66-7182	CAP - fitting	1
26	66-8054	ADAPTER (lowside)	1
27	66-6607	FITTING - lowside	1
28	66-7183	CAP - fitting	1
29	66-1916	VALVE - suction	1
30	55-3565	SCREW - valve	2
	55-6988	FLATWASHER	2
	55-7342	LOCKWASHER	2
31	33-727	O-RING	1
32	33-2805	GASKET - valve	1



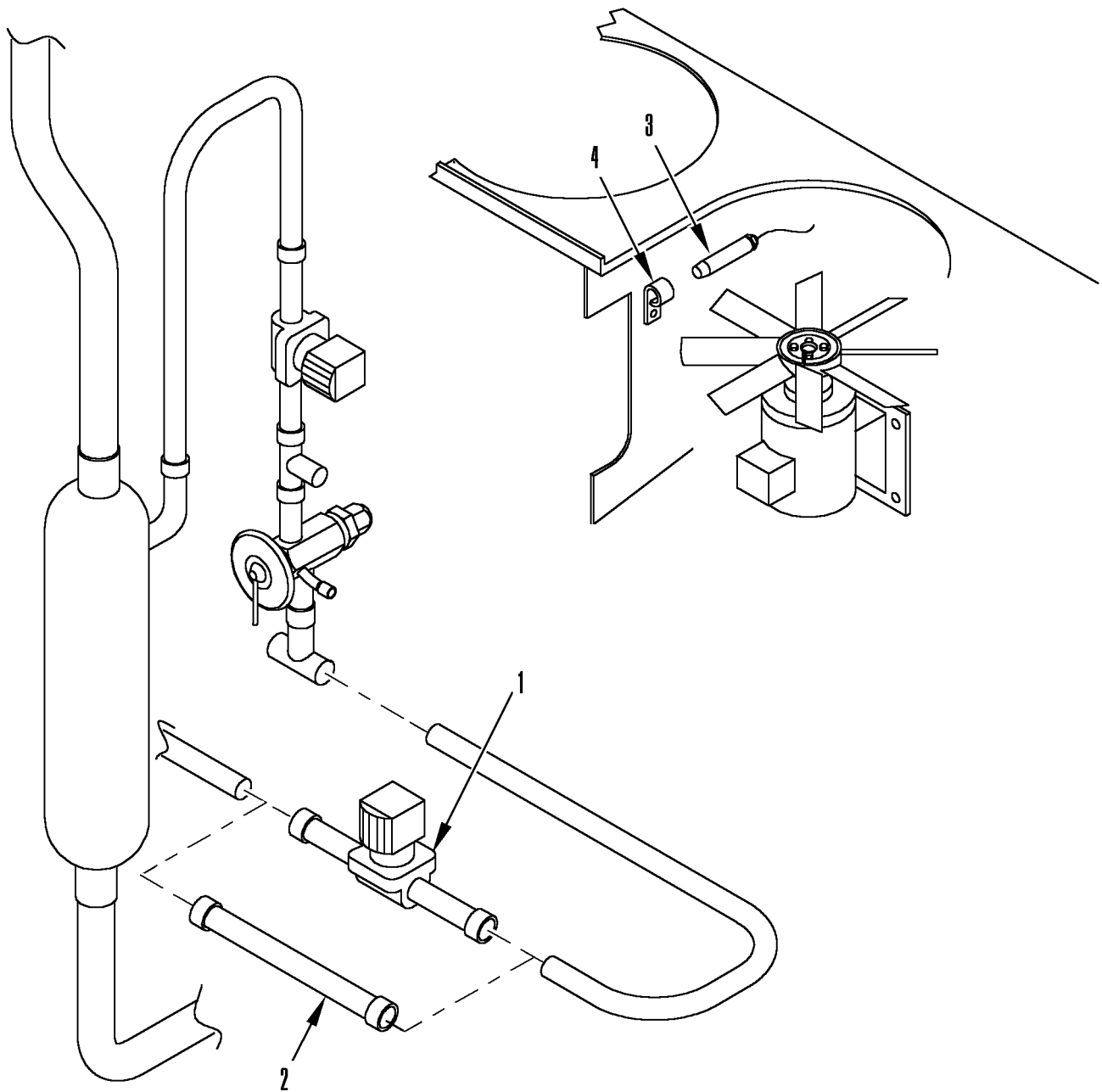


REF	PART#	DESCRIPTION	QTY
1	102-638	COMPRESSOR - scroll	1
	40-779	KIT - gasket & grease	1
2	33-2951	•• GASKET - power connector	1
	33-2979	•• SEALER - silicone grease pack	1
3	55-8994	•• SCREW - ground	1
	55-8995	•• WASHER - ground	1
4	91-9021	• COVER - terminal box	1
5	41-2211	CABLE - power	1
6	55-8911	SCREW - compressor	4
7	55-7360	FLATWASHER (12 mm)	4
8	55-9012	WASHER - vibration damper	4
9	55-9013	SPACER	4
10	55-8912	FLATWASHER (13 mm)	4
11	55-8992	NUT	4
12	41-4004	SWITCH - high pressure cutout	1
13	11-2886	VALVE (Schrader)	1
	11-7777	• INSERT - valve	1
	203-393	SEALER - thread	A/R
14	41-2447	SENSOR - compressor	1
15	61-172	FLANGE - suction	1
16	33-727	O-RING - suction	1
17	55-9390	SCREW - flange	2
18	55-7066	LOCKWASHER	2
19	61-176	FLANGE - discharge	1
20	33-2805	GASKET - valve	1
21	55-9912	SCREW - valve	2
22	55-6999	FLATWASHER	2
23	55-9172	WASHER - sealing	2
24	55-7344	NUT	2
25	55-3364	PLUG - pipe	1





REF	PART#	DESCRIPTION	QTY
1	66-8367	VALVE - liquid injection (w/coil 41-767, 24V, .034 orifice, ALCO, use on mP-D units only)	1
	66-9866	VALVE - liquid injection (w/o coil 41-767, 24V, .034 orifice, ALCO)	1
	66-8721	VALVE - liquid injection (w/coil 41-767, 24V, .075 orifice, ALCO)	1
	61-681	VALVE - liquid injection (w/o coil 41-767, 24V, .075 orifice, ALCO)	1
	66-9195	VALVE - liquid injection (w/coil 41-767, 24V, .110 orifice, ALCO)	1
	66-9953	VALVE - liquid injection (w/o coil 41-767, 24V, .110 orifice, ALCO)	1
2	41-767	COIL (24V, 36 in leads, ALCO, use on mP-D units only)	1
3	41-3301	COIL (24V, 2.2 meter leads, ALCO)	1
	41-3396	COIL (24V, 2.2 meter leads w/pin terminals, ALCO)	1
4	44-3592	COIL (24V, 200 mm leads w/2 pin connectors, white, ALCO)	1
	44-3591	COIL (24V, 200 mm leads w/2 pin connector, green, ALCO)	1
5	66-9168	VALVE - liquid injection (24V, w/o coil, Danfoss)	1
6	41-2399	COIL (24V, w/2 pin connector, gray, Danfoss)	1
	41-2361	COIL (24V, w/2 pin connector, green, Danfoss)	1
7	504-1310	COIL (24V, 2.2 meter leads, Danfoss)	1



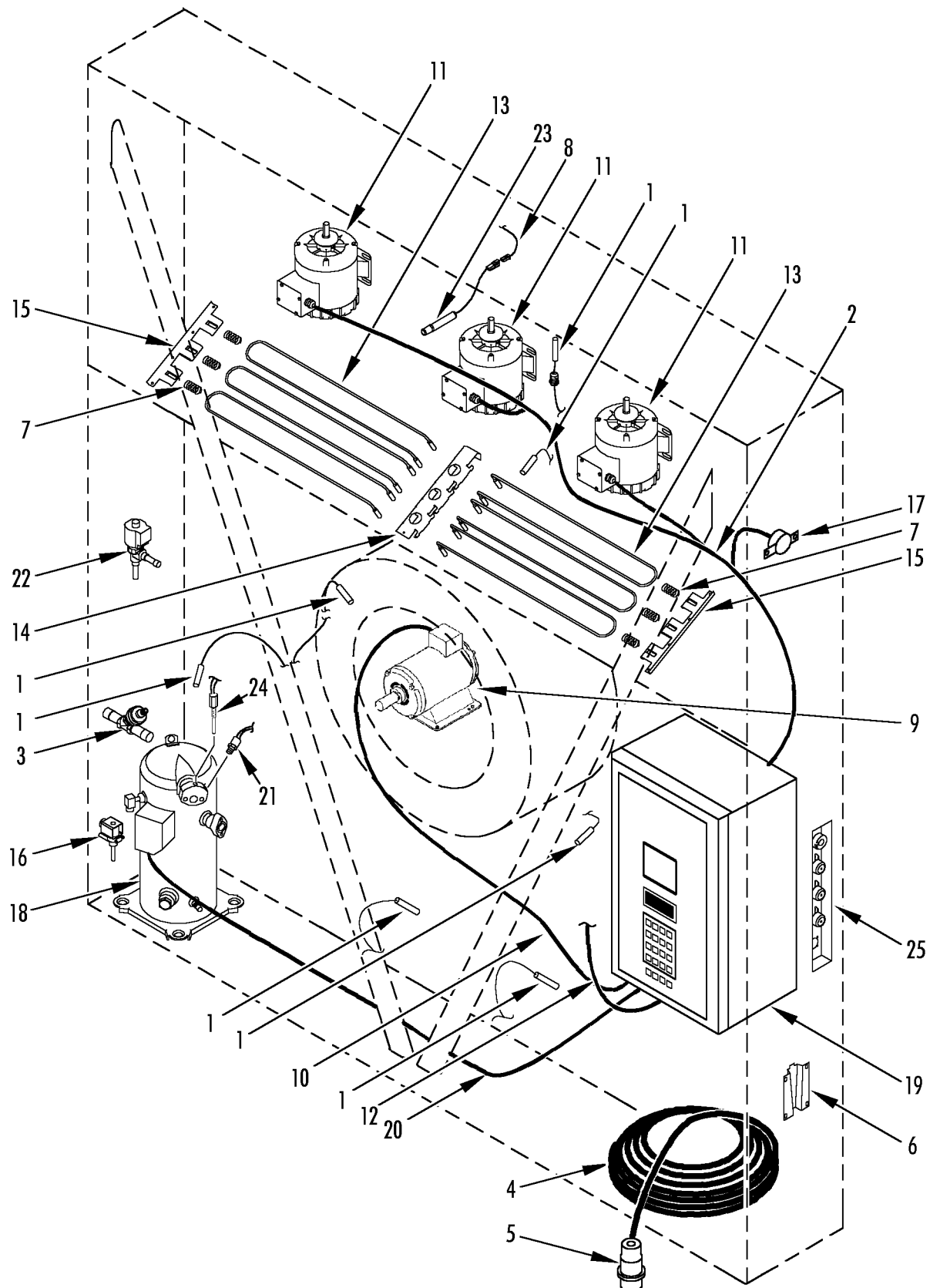
Revised
4/4/00

**HUMIDITY CONTROL (OPTIONS 098104, 098137 &
098188)**



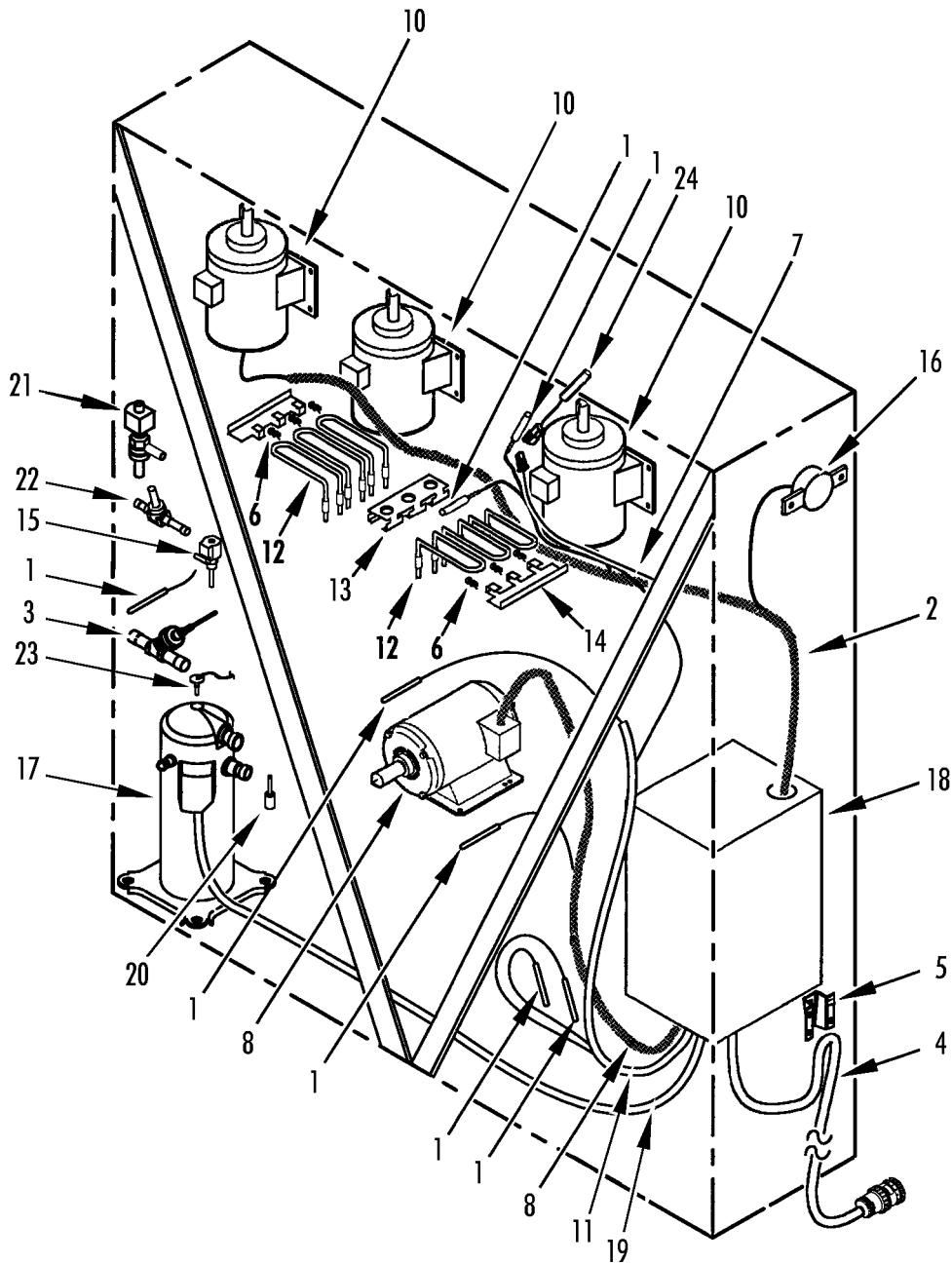
157G7

REF	PART#	DESCRIPTION	QTY
1	41-3303	VALVE - solenoid (humidity control)	1
	41-3301	• COIL	1
2	66-9159	TUBE (replaces valve)	1
3	41-2573	SENSOR - humidity	1
	41-2838	HARNESS - sensor	1
4	55-1203	CLAMP - sensor	2
	55-8991	SPACER - clamp	2
	55-9173	SCREW - clamp	2



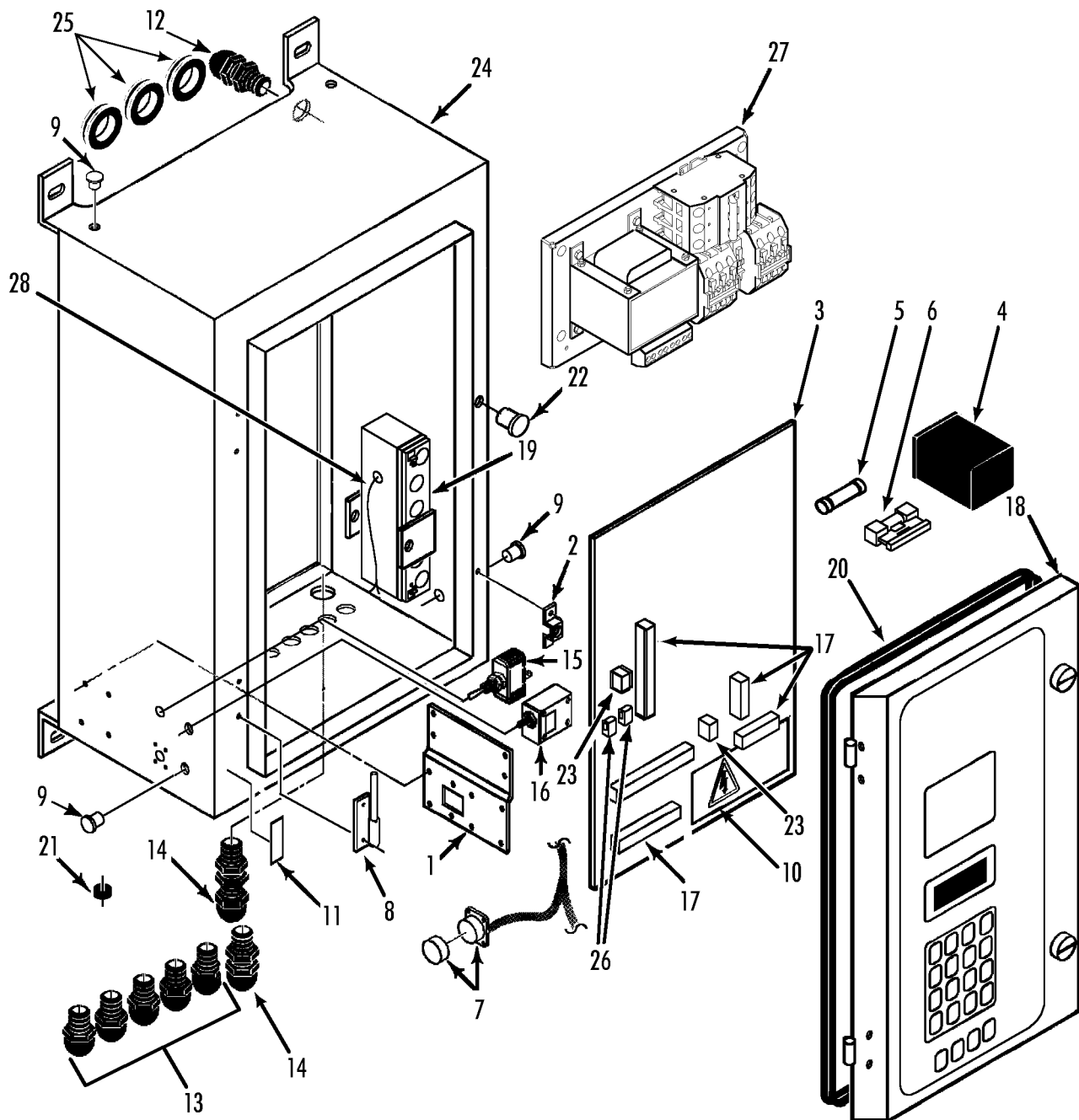


REF	PART#	DESCRIPTION	QTY
1	40-791	KIT - sensor (universal)	A/R
2	41-2954	HARNESS - evaporator fans & heater (before 9/00)	1
	41-4002	HARNESS - evaporator fans (9/00 & after)	1
3	66-9934	VALVE - stepper	1
4	45-1942	CABLE - power (22.3 meters, 73 ft)	1
	45-1992	CABLE - power (19.2 meters, 63 ft)	1
5	41-1976	• PLUG - power (Minnekes)	1
6	91-6988	BRACKET - cable restraint	1
	55-9164	SCREW - cable	1
	55-6999	FLATWASHER	1
	55-7344	NUT	1
	55-7172	SCREW - bracket	1
	55-7075	FLATWASHER	1
	55-7170	LOCKWASHER	1
7	91-8140	SPRING - heater	6
8	41-2838	HARNESS - sensor (humidity, MPC)	1
9	104-682	MOTOR - condenser fan (see 155D4)	1
10	41-2953	HARNESS - condenser fan (see 155D4)	1
11	104-683	MOTOR - evaporator fan (see 157D8)	3
12	41-3593	HARNESS - control box	1
13	45-1791	HEATER (680W, 600 mm leads)	6
	45-1927	HEATER (680W, 2 meter leads)	1
14	92-234	BRACKET - heater	1
15	92-235	BRACKET - heater	2
	55-9119	SCREW - bracket	11
16	66-9866	VALVE - solenoid (see 154E9)	1
17	41-3401	THERMOSTAT	1
	55-9166	SCREW - thermostat	2
18	102-638	COMPRESSOR (w/service valves see 155D13, flanged see 158B6)	1
19	NSS	BOX - control (see 158A3)	1
20	41-3951	CABLE - compressor	1
21	41-4004	SWITCH - high pressure cutout	1
22	66-9953	VALVE - solenoid	1
23	41-2573	SENSOR - humidity	1
24	41-2447	SWITCH - high temperature	1
25	NSS	PANEL - USDA receptacle (see 165A5)	1



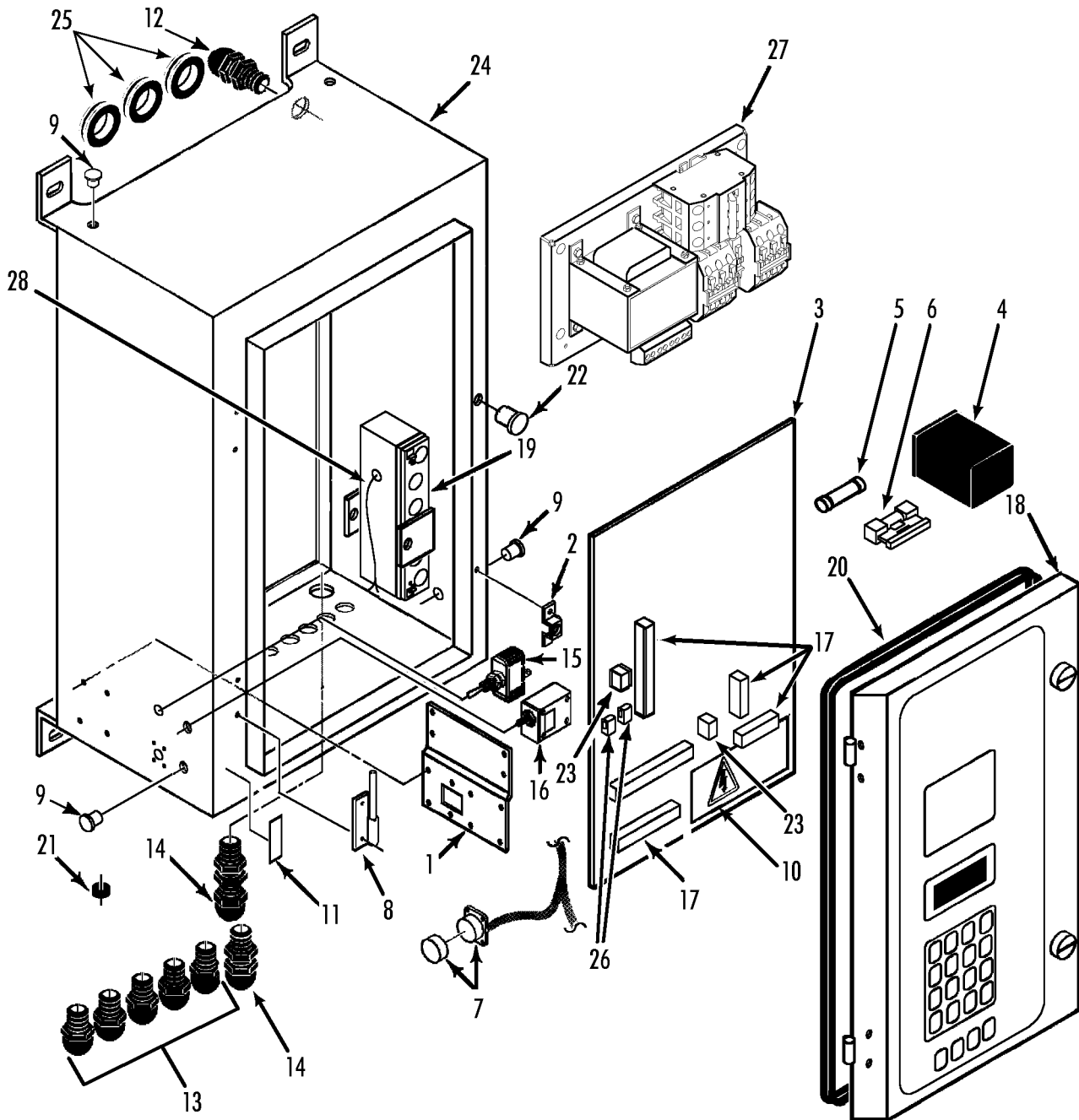


REF	PART#	DESCRIPTION	QTY
1	40-791	KIT - sensor (universal)	A/R
2	41-4002	HARNESS - evaporator fans & heaters	1
3	66-9934	VALVE - stepper	1
4	41-2503	CABLE - power	1
	41-1976	PLUG - power (Minnekes)	1
5	92-270	BRACKET - cable restraint	1
	55-7172	SCREW - bracket	4
	55-7075	FLATWASHER	4
	55-7170	LOCKWASHER	4
6	509-1643	SPRING - heater	6
7	41-2838	HARNESS - sensor (humidity, MPC)	1
8	104-682	MOTOR - condenser fan (see 155D4)	1
9	41-2953	HARNESS - condenser fan (see 155D4)	1
10	104-683	MOTOR - evaporator fan (see 155E1)	3
11	41-3593	HARNESS - control box	1
12	45-1927	HEATER	6
13	91-8634	BRACKET - heater	1
14	91-8629	BRACKET - heater	2
	55-9119	SCREW - bracket	11
15	66-9953	VALVE - solenoid (see 158B6)	1
	44-3592	COIL - valve	1
16	41-3401	THERMOSTAT	1
	55-9166	SCREW - thermostat	2
17	102-671	COMPRESSOR (hermetic, see 152A4)	1
	102-638	COMPRESSOR (w/service valves see 155D13, flanged see 158B3)	1
18	NSS	BOX - control (see 158A3)	1
19	41-3951	CABLE - compressor	1
20	41-3394	SWITCH - high pressure cutout	1
21	66-9866	VALVE - solenoid (liquid injection)	1
22	66-9032	VALVE - solenoid (dehumidify)	1
23	40-735	KIT - thermistor	1
24	504-917	SENSOR - humidity	1



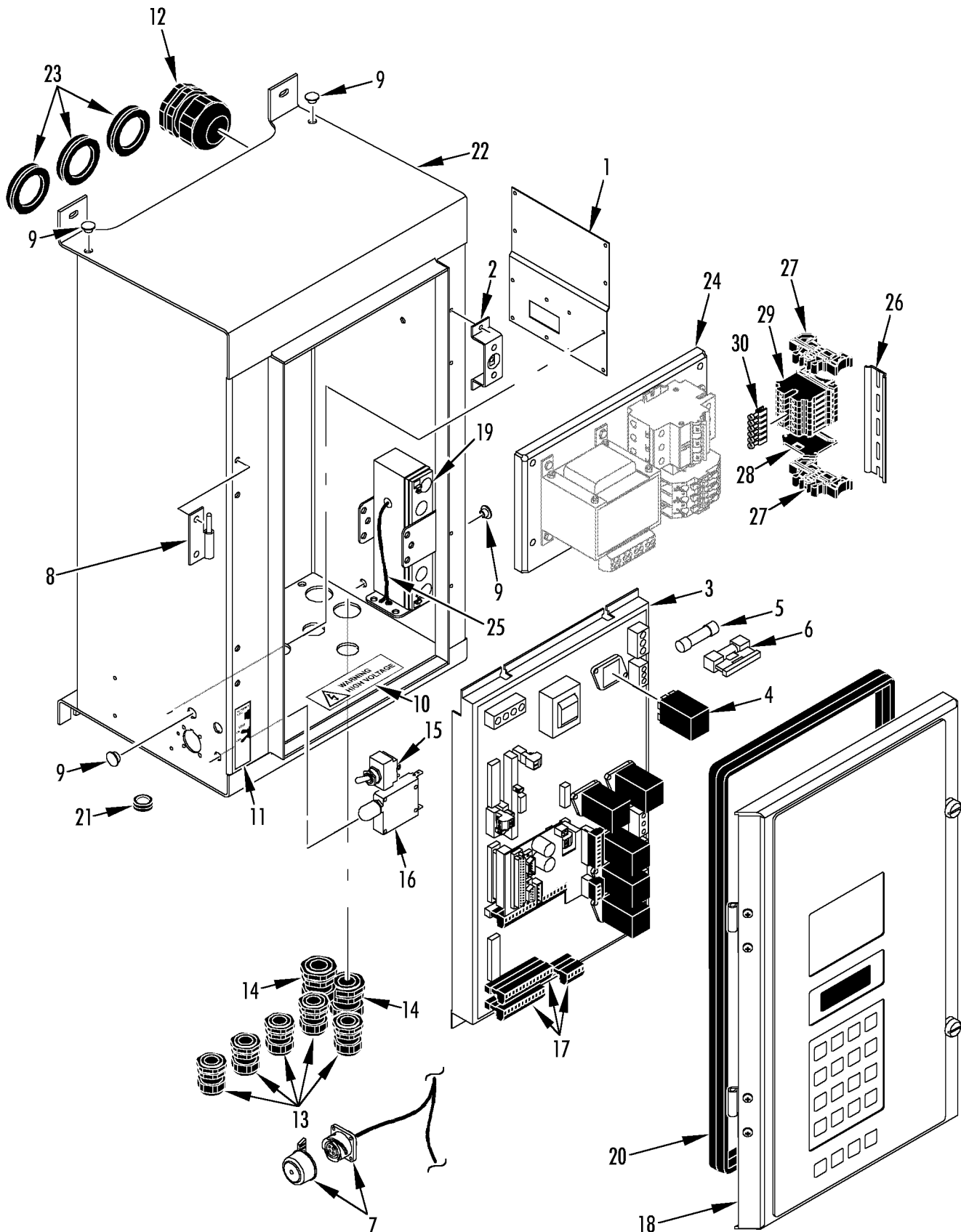


REF	PART#	DESCRIPTION	QTY
1	92-236	BRACKET - diagram	1
	55-3272	RIVET - bracket	4
2	92-237	BRACKET (w/receptacle)	2
	55-2074	NUT - speed	1
	55-9166	SCREW - bracket	4
	505-558	WASHER - insulating (nylon)	4
3	845-2834	BOARD - relay (MP3000)	1
	55-9166	SCREW - relay board	6
4	504-514	RELAY - power	6
	92-860	CLIP - relay	6
5	504-970	FUSE (20A)	3
	504-141	SCREW - board	2
6	41-3430	FUSE HOLDER	1
7	41-2853	CABLE - retriever plug	1
	55-3272	RIVET - plug	4
	41-3588	CAP - plug	1
8	92-238	HINGE - cover	2
	55-7172	SCREW - hinge	4
	55-8877	WASHER (nylon)	4
	509-955	INSULATOR	2
	55-6995	WASHER	2
	505-566	LOCKWASHER	2
	55-7042	NUT	4
9	505-408	PLUG - seal	3
10	91-9833	NAMEPLATE - Caution	1
11	92-244	NAMEPLATE - on/off	1
12	55-5885	CONNECTOR - liquid tite	1
13	55-5900	FITTING - harness	5
14	55-5257	FITTING - harness	2
15	41-3595	SWITCH - unit on/off	1
	92-239	BOOT - switch	1
16	41-3276	BREAKER - circuit	1
	44-8688	BOOT - circuit breaker	1
17	41-3596	BLOCK - terminal (4 pole)	1
	41-3597	BLOCK - terminal (5 pole)	1
	41-3598	BLOCK - terminal (8 pole)	1
	504-1413	BLOCK - terminal (12 pole)	1
	41-3599	BLOCK - terminal (14 pole)	1
	41-3608	BLOCK - terminal (18 pole)	1
18	NSS	DOOR - controller (see 157D7)	1
19	203-509	BATTERY (12V, 1.9 AH)	1
20	503-119	GASKET - cover	1



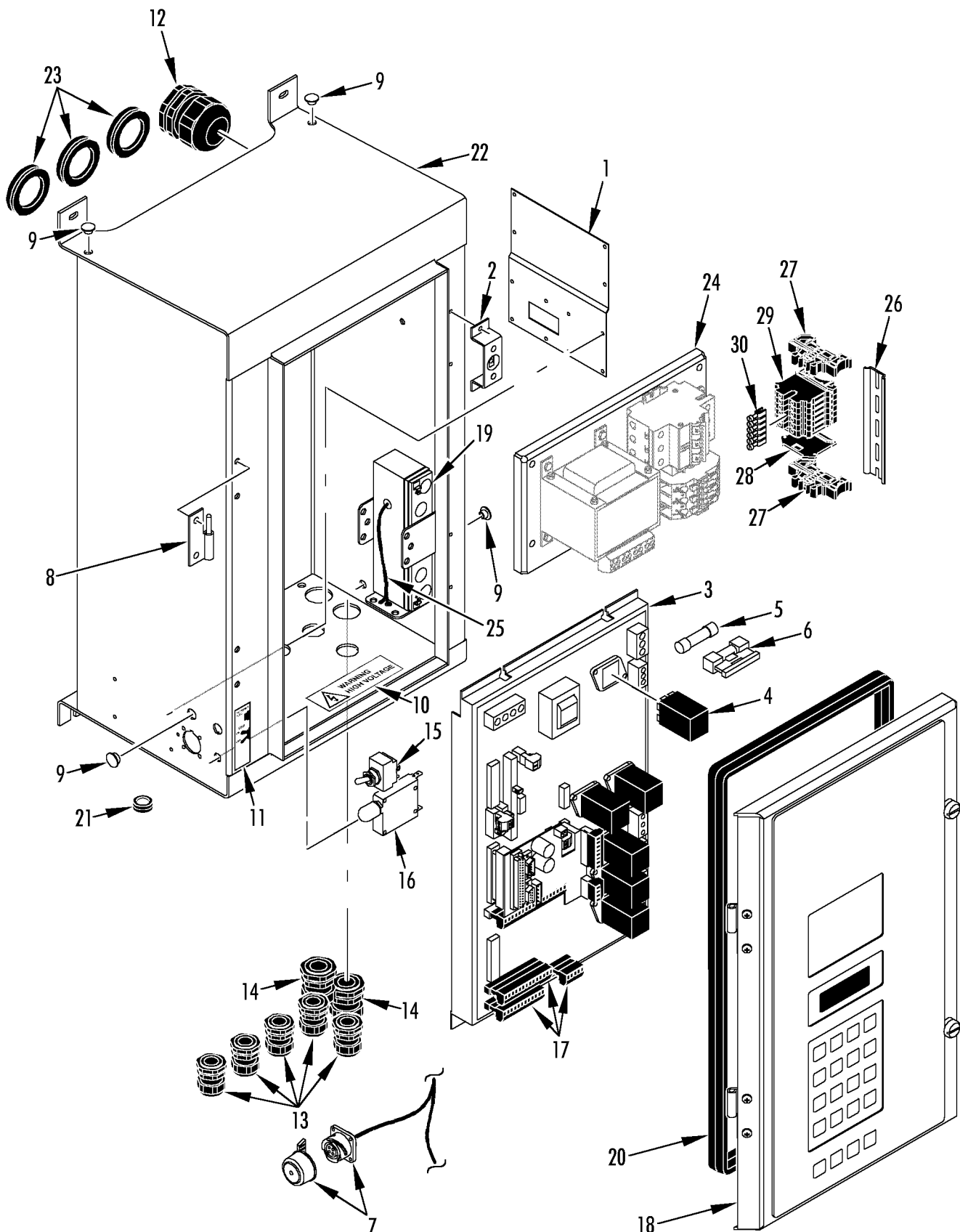


REF	PART#	DESCRIPTION	QTY
21	503-364	GROMMET	1
22	55-9401	PLUG - seal	3
23	41-2832	PLUG (2 pole, short circuit)	1
	504-327	PLUG (2 pole)	1
24	98-5454	BOX - control	1
	55-6994	SCREW - control box	4
	55-7075	FLATWASHER	4
	55-9054	WASHER - insulator	4
25	33-3215	GROMMET	3
26	41-2833	PLUG - din	2
27	NSS	TRAY - high voltage (see 158A1)	1
28	41-3335	CABLE - battery	1





REF	PART#	DESCRIPTION	QTY
1	92-236	BRACKET - diagram	1
	55-3272	RIVET - bracket	4
2	92-237	BRACKET (w/receptacle)	2
	55-2074	NUT - speed	4
	55-9166	SCREW - bracket	4
	505-558	WASHER - insulating (nylon)	4
3	845-2834	BOARD - relay (MP3000)	1
	55-9166	SCREW - relay board	6
4	504-514	RELAY - power	6
	92-860	CLIP - relay	
5	504-970	FUSE (20A)	3
6	41-3430	HOLDER - fuse	1
7	41-2853	CABLE - retriever plug	1
	55-3272	RIVET - plug	4
	41-3588	CAP - plug	1
8	92-238	HINGE - cover	2
	55-7172	SCREW - hinge	4
	55-8877	WASHER (nylon)	4
	509-955	INSULATOR	2
	55-6995	WASHER	2
	505-566	LOCKWASHER	2
	55-7042	NUT	4
9	41-2833	PLUG - seal	2
10	91-9833	NAMEPLATE - Caution	1
11	92-244	NAMEPLATE - On/Off	1
12	55-5885	CONNECTOR - liquid tite	1
13	55-5900	FITTING - harness	5
14	55-5257	FITTING - harness	2
15	41-3595	SWITCH - unit on/off	1
	92-239	BOOT - switch	1
16	41-3276	BREAKER - circuit	1
	92-136	BOOT - circuit breaker	1
17	41-2832	PLUG (2 pole, short circuit)	1
	504-327	PLUG (2 pole)	1
	41-3596	BLOCK - terminal (4 pole)	1
	41-3597	BLOCK - terminal (5 pole)	1
	41-3598	BLOCK - terminal (8 pole)	1
	504-1413	BLOCK - terminal (12 pole)	1
	41-3599	BLOCK - terminal (14 pole)	1
	41-3608	BLOCK - terminal (18 pole)	1
18	NSS	DOOR - controller (see 157D7)	1
19	203-509	BATTERY (12V, 1.9 AH)	1

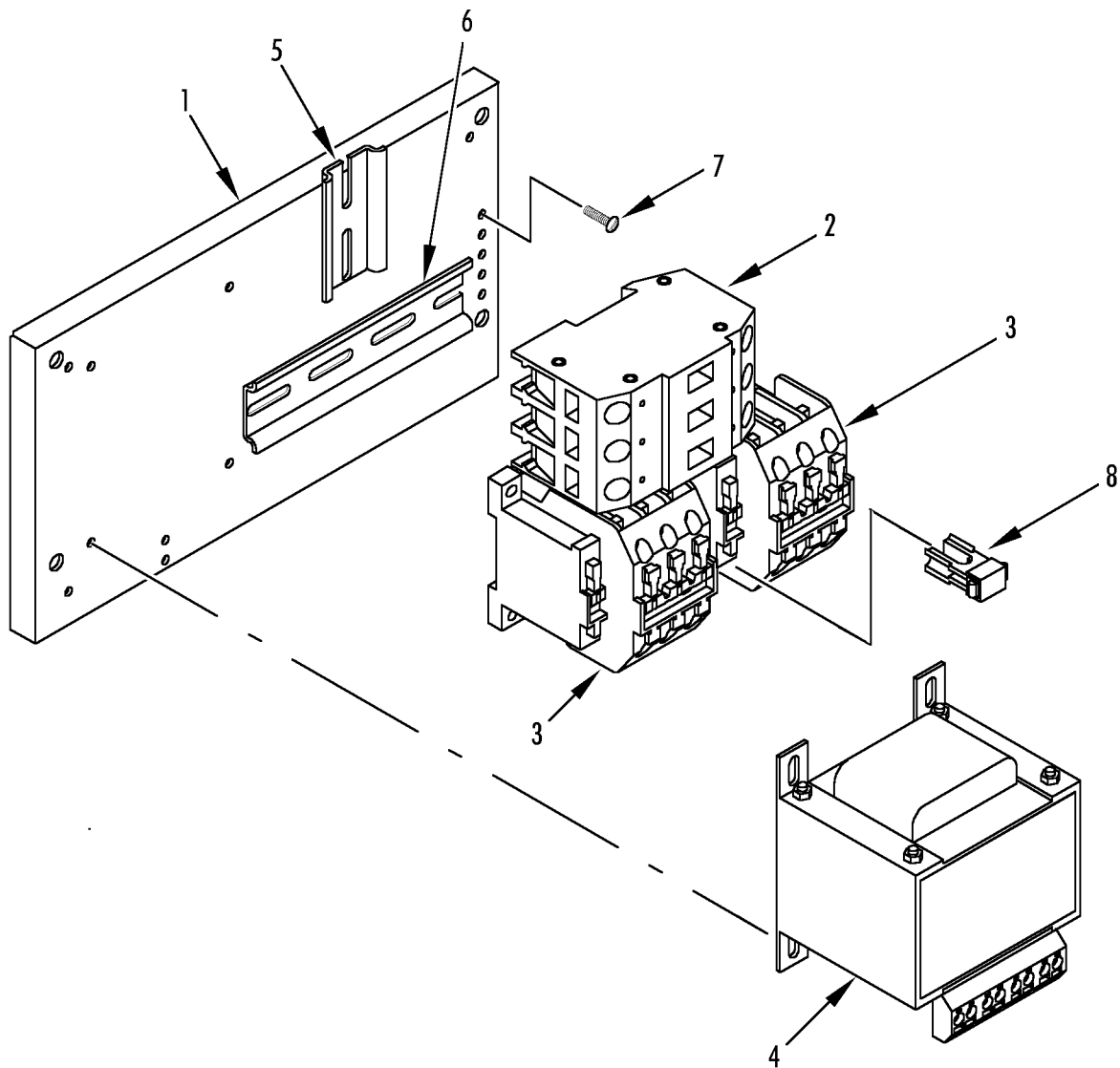


CONTROL BOX (HEATER WIRING INSIDE BOX)



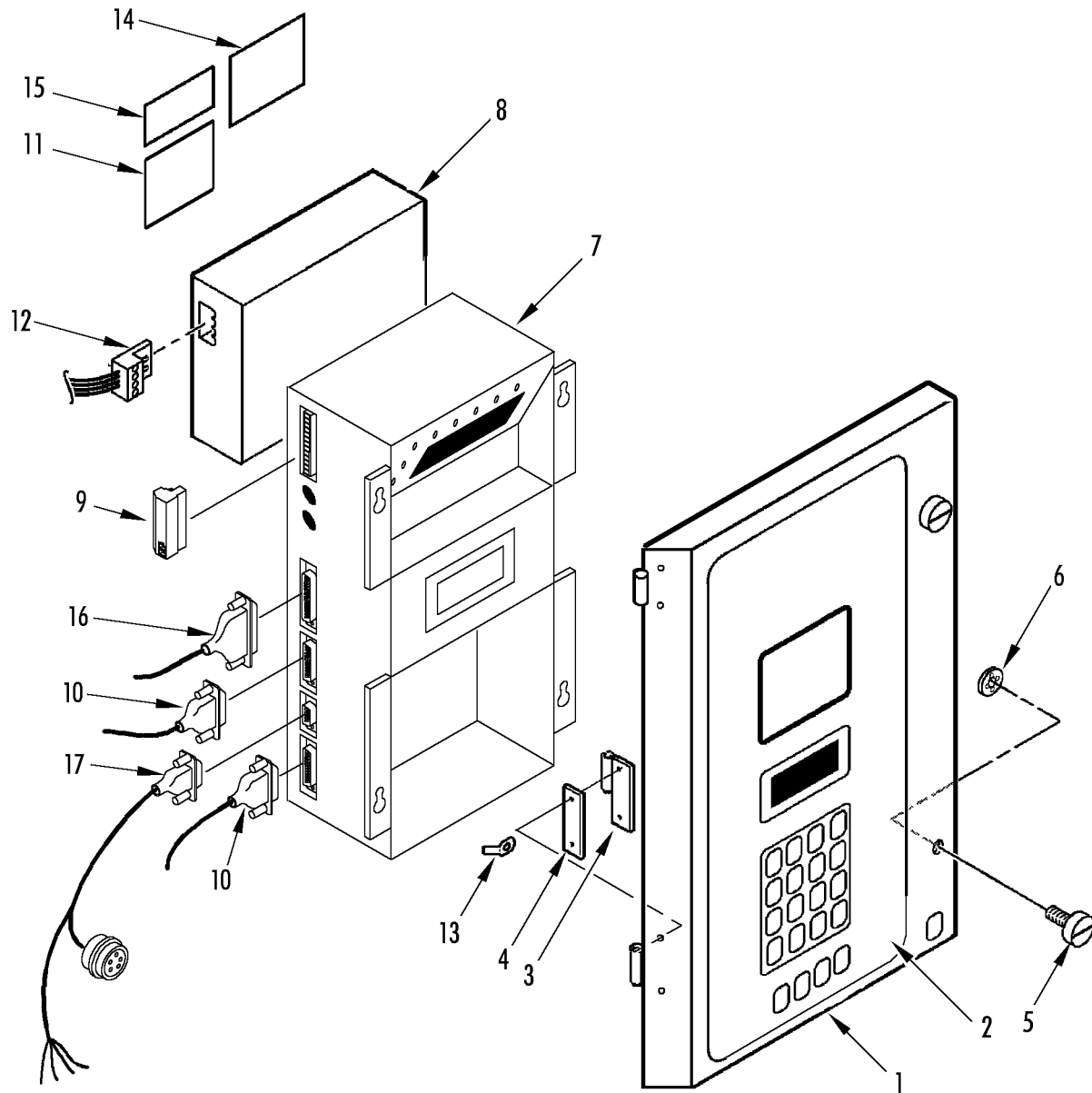
170F5

REF	PART#	DESCRIPTION	QTY
20	503-119	GASKET - cover	1
21	503-364	GROMMET	1
22	98-5454	BOX - control	1
	55-6994	SCREW - control box	4
	55-7075	FLATWASHER	4
	55-9054	WASHER - insulator	4
23	33-3215	GROMMET	3
24	NSS	TRAY - high voltage (see 158A1)	1
25	41-3335	CABLE - battery	1
26	309-3066	RAIL - terminal block	1
	55-7169	SCREW - rail	2
	55-7033	FLATWASHER	2
	55-9445	WASHER - insulator	2
	55-7034	NUT	2
27	41-3687	TERMINAL - stop clip	2
28	41-3702	PLATE - end terminal	1
29	41-3688	BLOCK - terminal	6
30	41-3703	CONNECTOR - cross	1



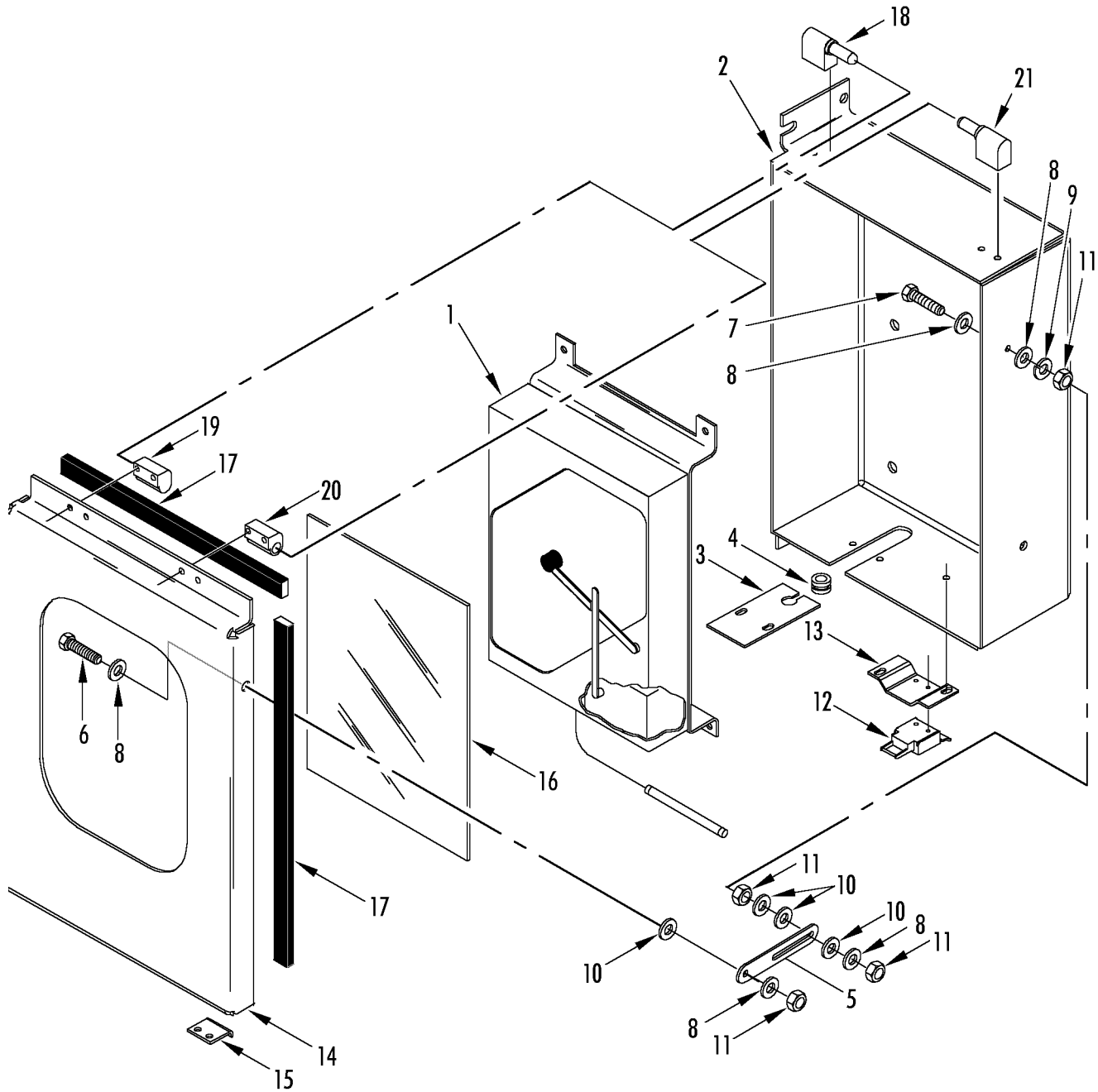


REF	PART#	DESCRIPTION	QTY
1	91-9913	PLATE - bottom	1
	55-7372	SCREW - plate to box	4
	55-8877	WASHER - insulator	3
	55-6995	FLATWASHER	3
	55-6996	LOCKWASHER	2
	55-7042	NUT	4
2	41-3433	BREAKER - circuit (25 amp)	1
3	41-3605	CONTACTOR (CI 25)	2
4	41-3317	TRANSFORMER	1
	55-9396	SCREW - transformer	4
5	91-9914	RAIL - din (60 mm)	1
6	91-9915	RAIL - din (125 mm)	1
7	55-9166	SCREW (pan hd)	11
	55-7370	LOCKWASHER	6
8	41-3604	INTERLOCK	1



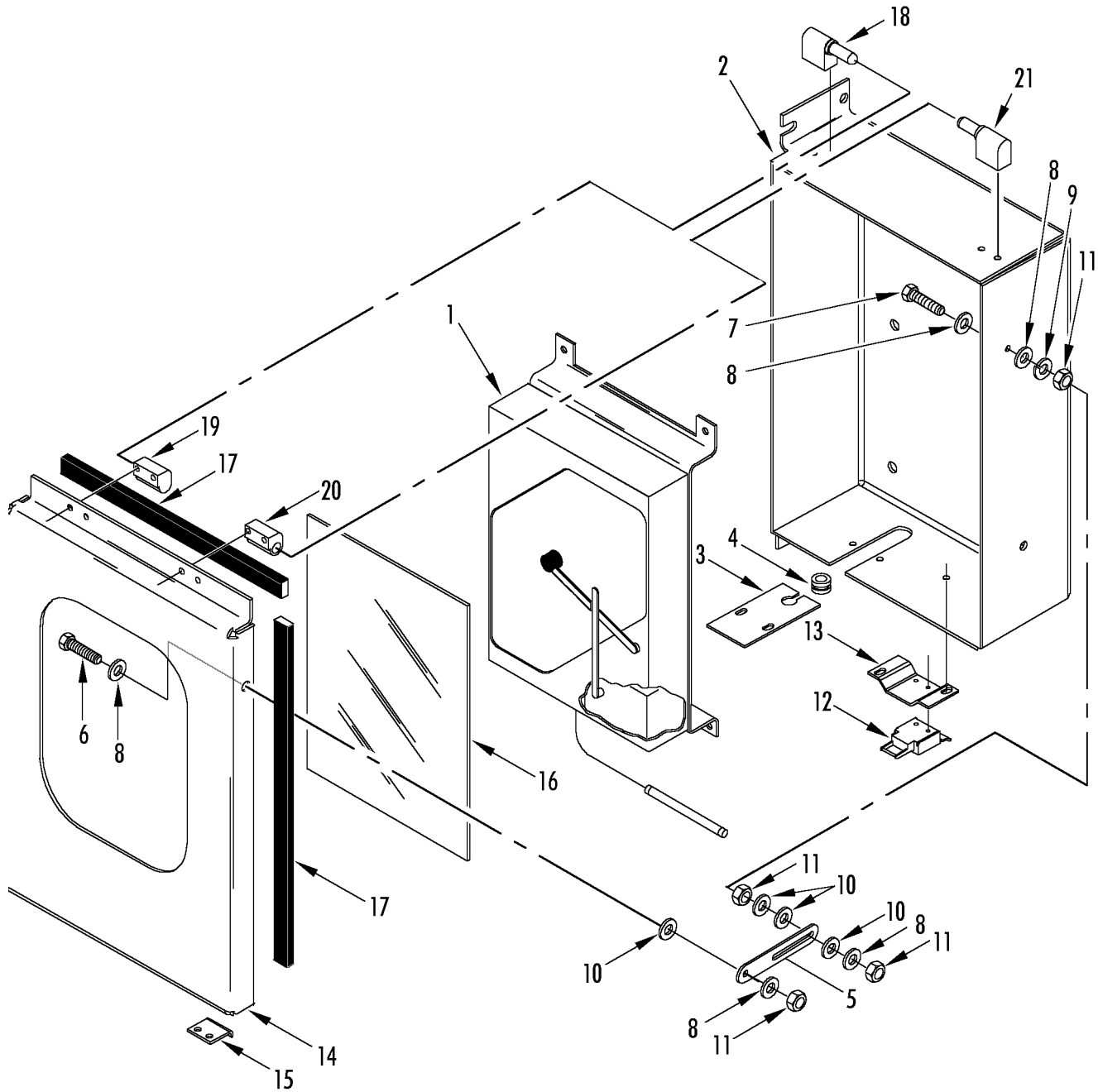


REF	PART#	DESCRIPTION	QTY
1	91-9380	DOOR - control box	1
2	41-4142	KEYBOARD (MP3000)	1
3	91-9381	HINGE - door	2
	55-7407	SCREW - hinge	4
	505-558	WASHER (nylon)	4
	55-7033	WASHER	8
	55-7034	NUT	4
4	55-9392	INSULATOR - hinge	2
5	55-9393	SCREW - door	2
6	55-9394	RETAINER - screw	2
7	845-1909	CONTROLLER (MP3000)	1
	55-7034	NUT - controller	4
	55-8919	LOCKWASHER	2
	505-558	WASHER - insulating (nylon)	4
8	845-1898	MODEM - RMM (option 098158, 098195)	1
9	41-3335	CONNECTOR (7 pin)	1
10	41-3602	CABLE - connecting (25 pin, No. 1 & 3)	2
11	91-9976	NAMEPLATE - relay board	1
12	41-3603	CABLE - connecting (RMM, option 098158, 098195)	1
13	55-9395	ADAPTER - push-on	1
	55-7034	NUT	1
14	91-9382	NAMEPLATE - controller warning	1
15	91-9383	NAMEPLATE - phase select	1
16	41-2835	CABLE - connecting (No. 2)	1
17	41-3402	CABLE - retriever (Deutsch)	1





REF	PART#	DESCRIPTION	QTY
1	45-1831	THERMOMETER - recording (31 day, Saginomiya, battery, see 147B9)	1
	45-1832	THERMOMETER - recording (31 day, Saginomiya, AC power)	1
	55-7172	SCREW - recorder	4
	55-6996	LOCKWASHER	4
	55-6995	FLATWASHER	4
2	91-8705	BOX - recorder	1
	55-7341	SCREW - box	4
	55-6988	FLATWASHER	4
	55-8953	WASHER (nylon)	4
3	91-4218	PLATE - box (bottom)	1
	55-7340	SCREW - plate	2
	55-7033	FLATWASHER	4
	55-7404	LOCKWASHER	2
	55-7354	NUT	2
4	33-451	GROMMET	1
5	99-7230	GUIDE - latch	1
6	55-7169	SCREW - guide (12 mm)	1
7	55-8720	SCREW - guide (25 mm)	1
8	55-7033	FLATWASHER	4
9	55-7464	LOCKWASHER	1
10	505-558	WASHER - insulating (nylon)	4
11	55-7034	NUT	4
12	91-5005	LATCH - cover	1
	55-2988	RIVET - latch	2
13	91-5006	BRACKET - latch	1
	55-7340	SCREW - bracket	2
	55-7033	FLATWASHER	4
	55-7404	LOCKWASHER	2
	55-7354	NUT	2
14	98-5532	COVER - recorder (incl items 15, 16 & 17)	1
15	91-5007	PLATE - keeper	1
	55-2988	RIVET - plate	2
16	91-8707	WINDOW	1
17	33-3008	GASKET - cover	4
	91-4219	HINGE SET - left	1
18	91-8708	• HINGE - right (w/pin)	1
19	91-8725	• HINGE - right (w/o pin)	1
20	91-8709	• HINGE - left (w/pin)	1
21	91-8726	• HINGE - left (w/o pin)	1
	55-7169	SCREW - hinge	8



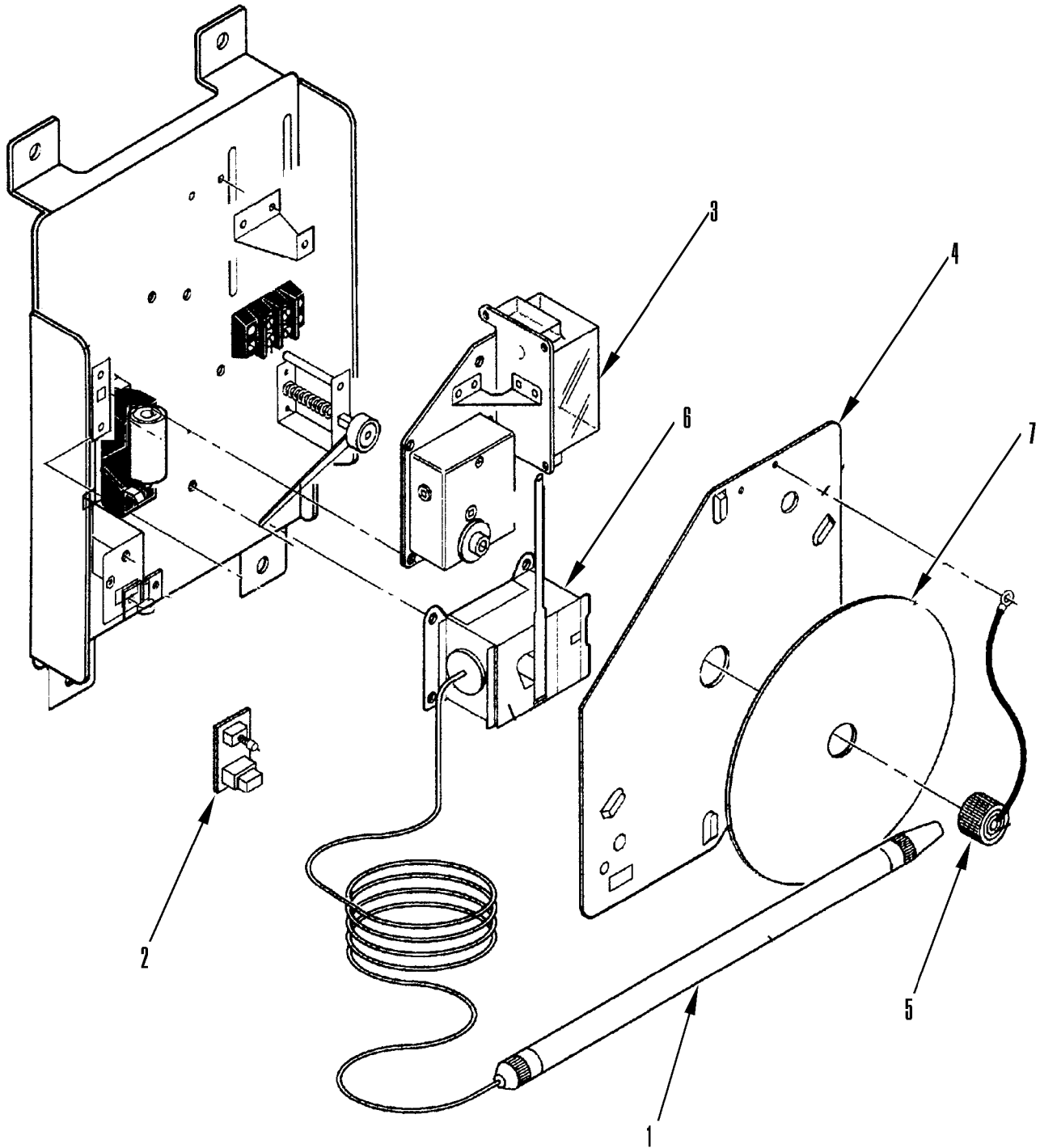
Revised
5/31/00

**RECORDING THERMOMETER (OPTION 098026 &
098030)**



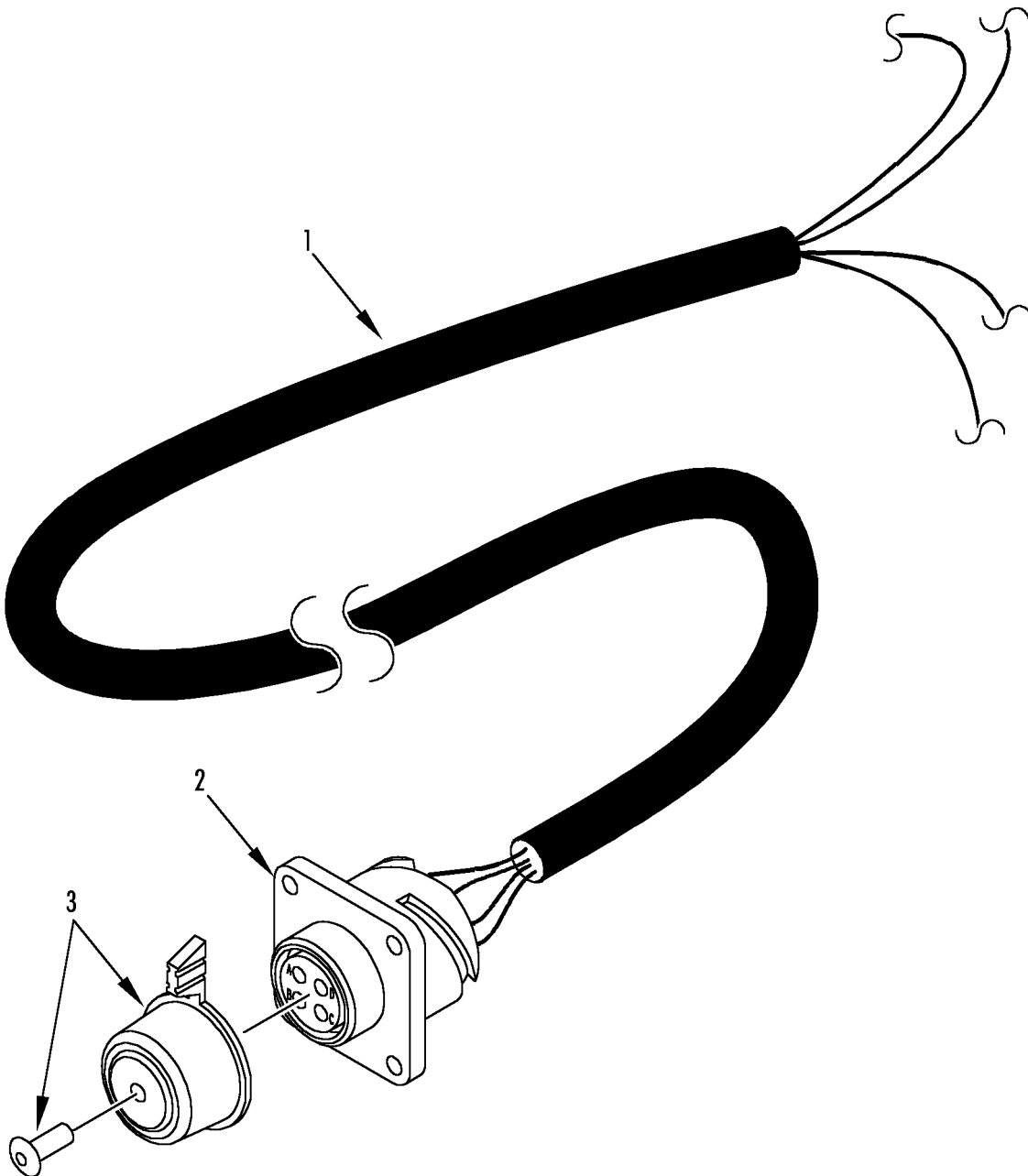
147B8

REF	PART#	DESCRIPTION	QTY
	55-7033	FLATWASHER	8
	55-7404	LOCKWASHER	8
	91-4220	HINGE SET - right	1





REF	PART#	DESCRIPTION	QTY
	45-1831	THERMOMETER - recording (Saginomiya, 31 day battery)	1
1	504-902	• ELEMENT	1
2	504-903	• INDICATOR - volt	1
3	504-904	• TIMER	1
4	509-911	• PLATE - recorder	1
5	505-390	• NUT - chart	1
6	509-912	• STYLUS - pen	1
7	203-180	CHART (31 day, -20 to +85 Fahrenheit, box of 50)	1



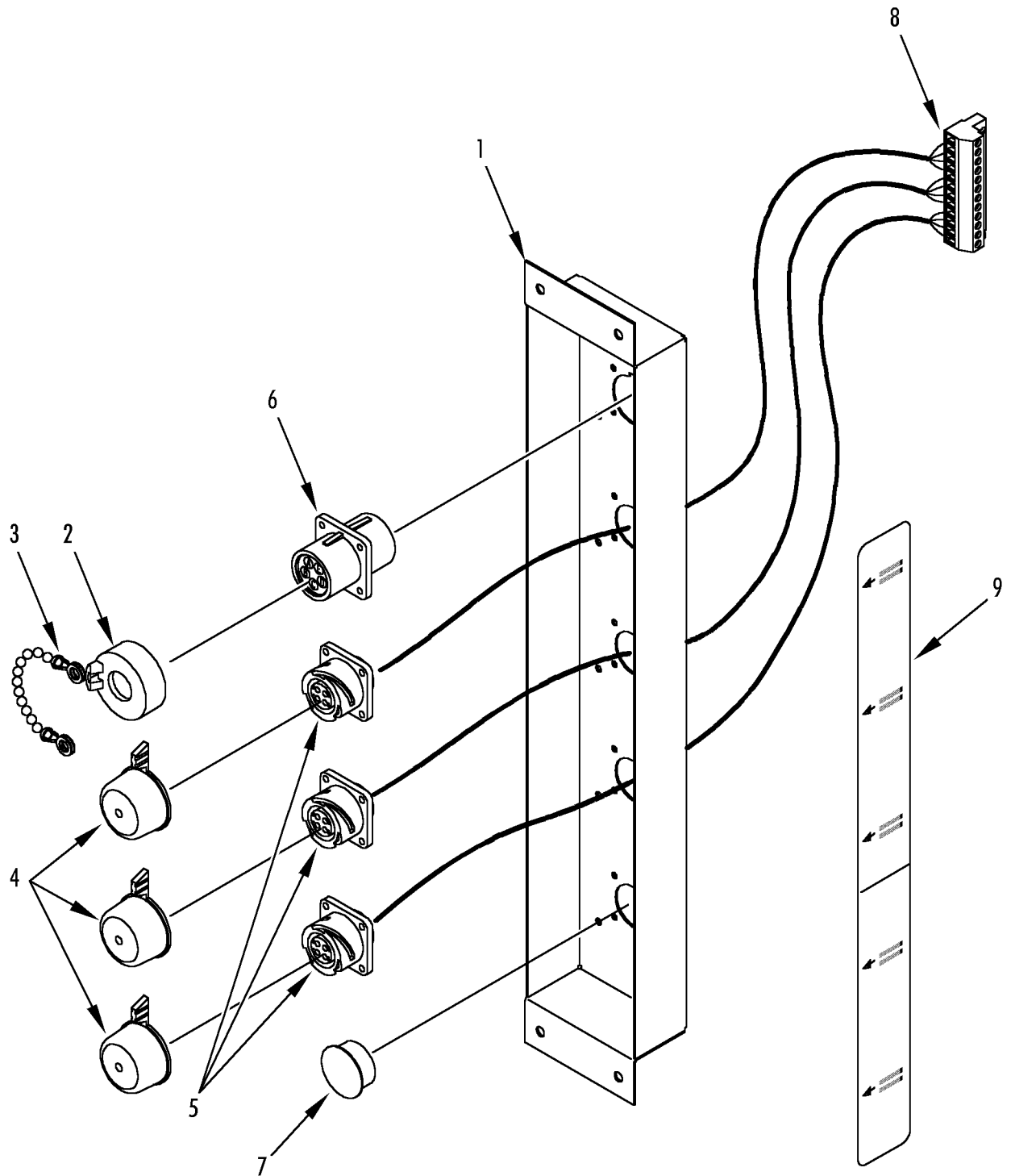
Revised
12/5/00

REMOTE MONITOR (OPTION 098144 & 098182)



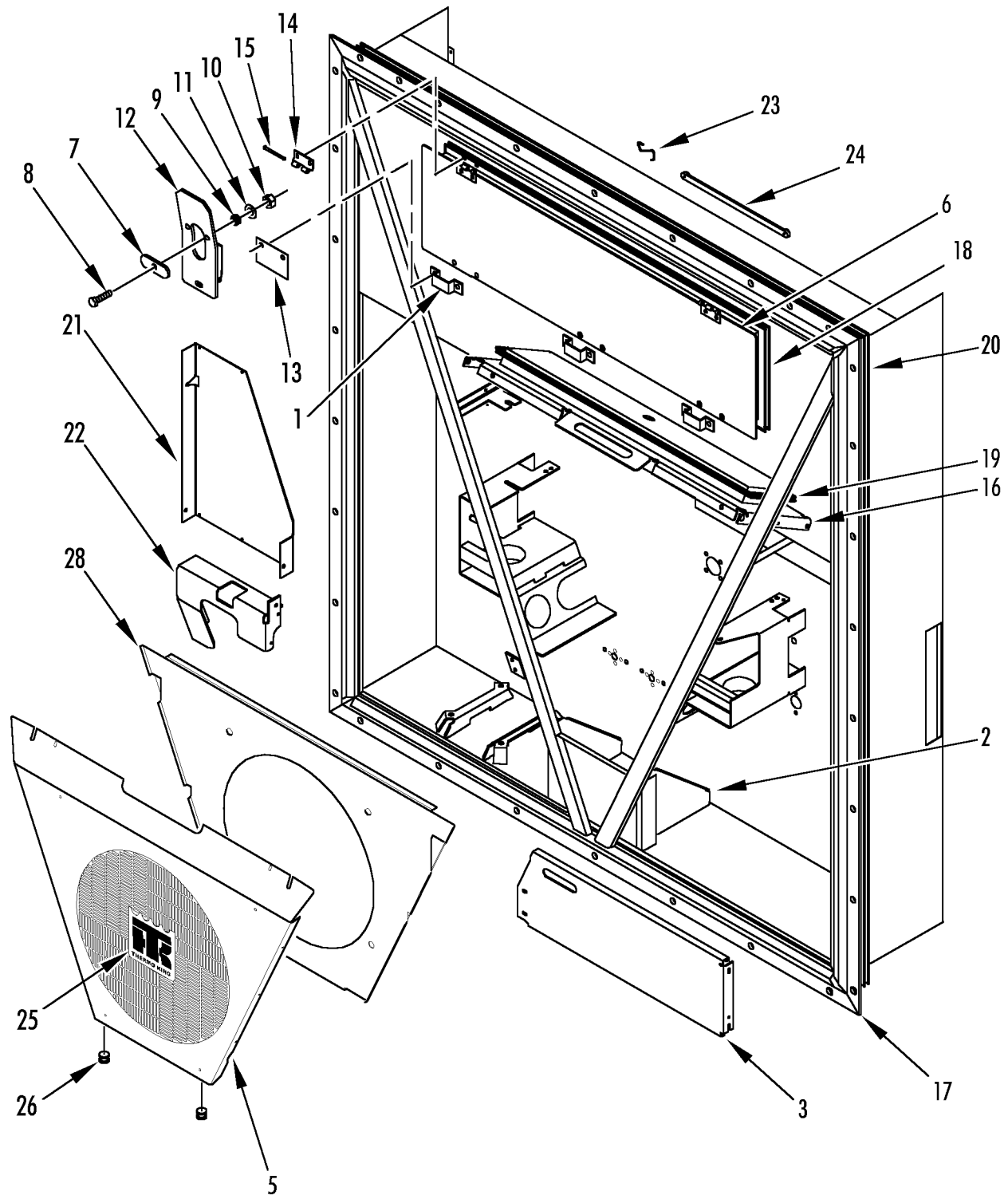
158A5

REF	PART#	DESCRIPTION	QTY
1	41-3606	HARNESS - remote monitor	1
2	41-3607	• RECEPTACLE (4 pin)	1
	55-9322	RIVET - receptacle	4
3	92-206	CAP - plug	1
	55-9323	RIVET - cap	1





REF	PART#	DESCRIPTION	QTY
1	92-862	PANEL - receptacle	1
	55-7713	RIVET - panel	4
2	41-2406	CAP - dust	1
3	99-3685	CHAIN - cap	1
4	41-3588	CAP - dust	3
	55-9323	RIVET - cap	4
5	41-3587	RECEPTACLE (4 pin)	3
	55-9322	RIVET - connector	16
6	41-2405	RECEPTACLE (5 pin)	1
7	55-9402	PLUG - spare hole	1
8	41-3585	CONNECTOR - plug (12 pin)	1
9	92-243	NAMEPLATE - data download USDA	1

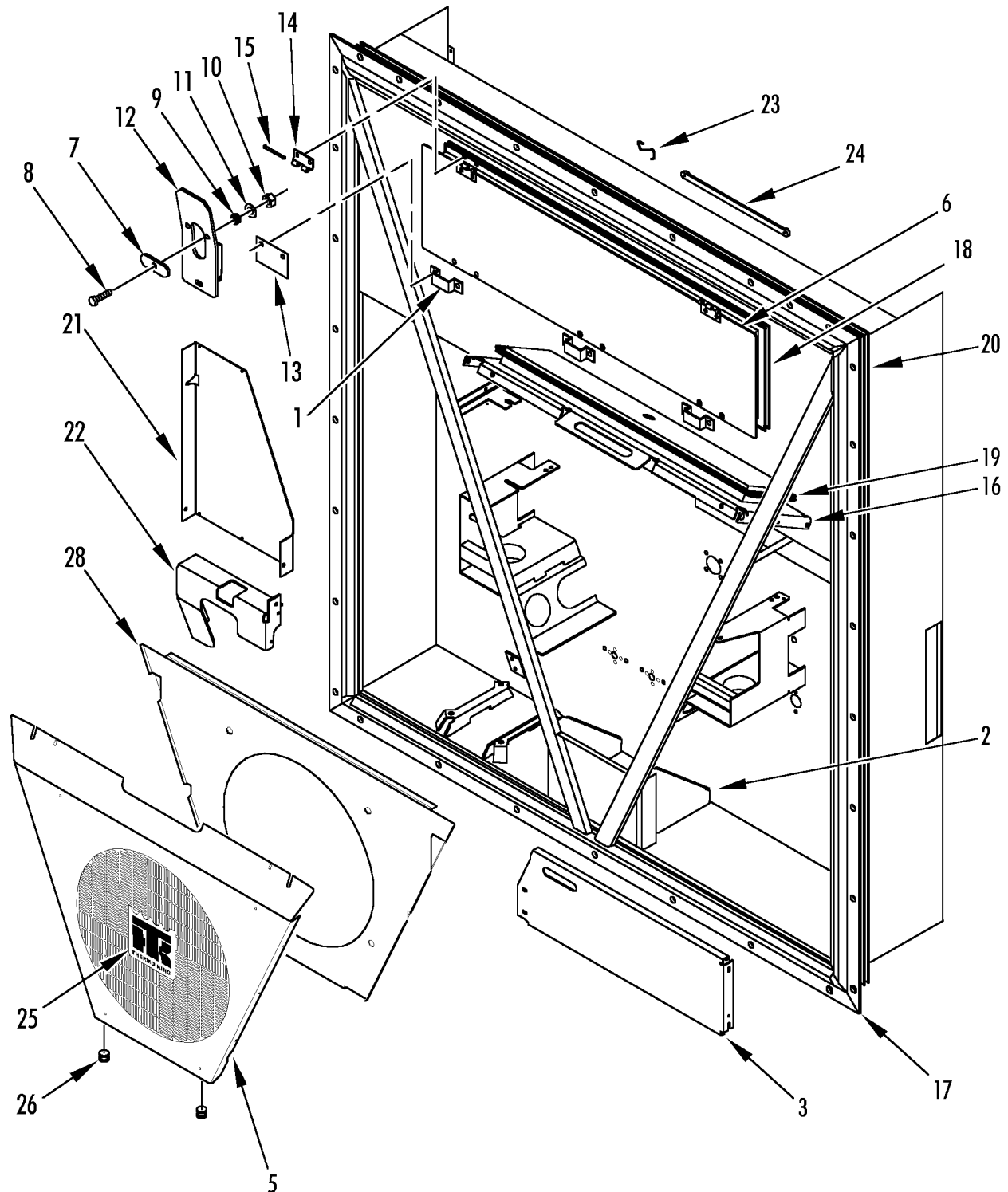


CONDENSER COMPONENTS (UNITS w/3 FANS & HEATER DOOR)



155E2

REF	PART#	DESCRIPTION	QTY
1	91-8195	KEEPER - door latch	3
	55-7172	SCREW - keeper	6
	55-8876	WASHER	6
	505-582	WASHER (nylon)	6
2	91-8108	BRACKET - frame	1
	55-8883	SCREW - bracket	3
	55-8881	WASHER	6
	55-8882	WASHER (nylon)	6
	55-8880	NUT	3
3	91-9504	PLATE - cable storage (front)	1
	55-8879	SCREW - plate	4
	55-8893	FLATWASHER	6
	55-8877	WASHER (nylon)	6
	55-8878	NUT	2
4	Not Used		
5	98-5226	GRILLE - condenser	1
	98-5453	GRILLE - humidity	1
	55-6994	SCREW - grille	4
	55-7357	FLATWASHER	4
	55-9054	WASHER (nylon)	6
6	509-755	DOOR - evaporator (3 fan, units with 2 fans see)	1
	509-1789	SEAL - door	A/R
7	91-9040	KNOB	3
8	55-8879	SCREW - door	3
9	91-8199	SPRING	3
10	55-8900	NUT	3
11	55-8877	WASHER (nylon)	3
12	91-9041	LATCH - door	3
	55-8901	RIVET - latch	6
13	91-8134	INSULATOR - latch	3
14	509-1654	HINGE	3
	55-8909	SCREW - hinge	6
	55-8882	WASHER (nylon)	6
	55-8881	WASHER	6
15	91-8256	PIN - hinge (w/snap)	3
16	509-1787	DOOR - heater section	1
	55-8883	SCREW - door	8
	55-8882	WASHER (nylon)	8
	55-8904	WASHER	8
17	98-5303	FRAME - condenser (foamed)	1
18	33-3001	GASKET - evaporator door	1
19	33-3002	GASKET - door	1



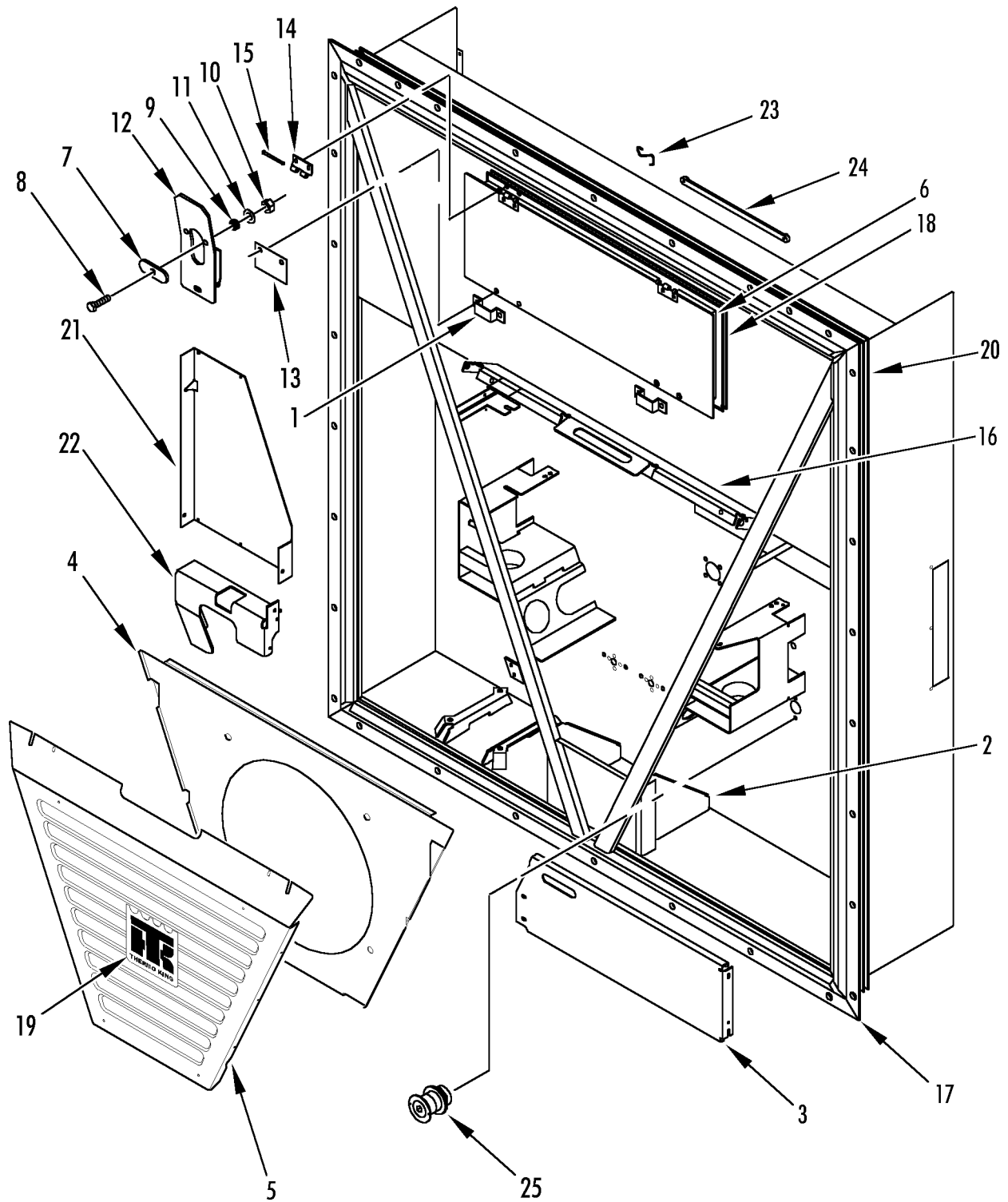
Revised
1/3/01

CONDENSER COMPONENTS (UNITS w/3 FANS & HEATER DOOR)



155E2

REF	PART#	DESCRIPTION	QTY
20	33-2983	GASKET - unit	1
21	91-8728	COVER (instead of thermometer)	1
	55-8909	SCREW - cover	3
	55-8904	FLATWASHER	3
	55-8953	WASHER (nylon)	3
22	91-9820	PLATE - guard	1
	55-7341	SCREW - plate (20 mm)	2
	55-6993	SCREW - plate (25 mm)	1
	55-6988	FLATWASHER	3
	505-214	WASHER	3
23	91-9039	HOOK - strap	1
	55-3065	CLAMP - hook	1
	55-7341	SCREW - clamp	1
24	509-937	STRAP - door	1
	55-9173	SCREW - strap	1
	55-7089	FLATWASHER	1
25	91-8694	NAMEPLATE - Warning, Fan Start	1

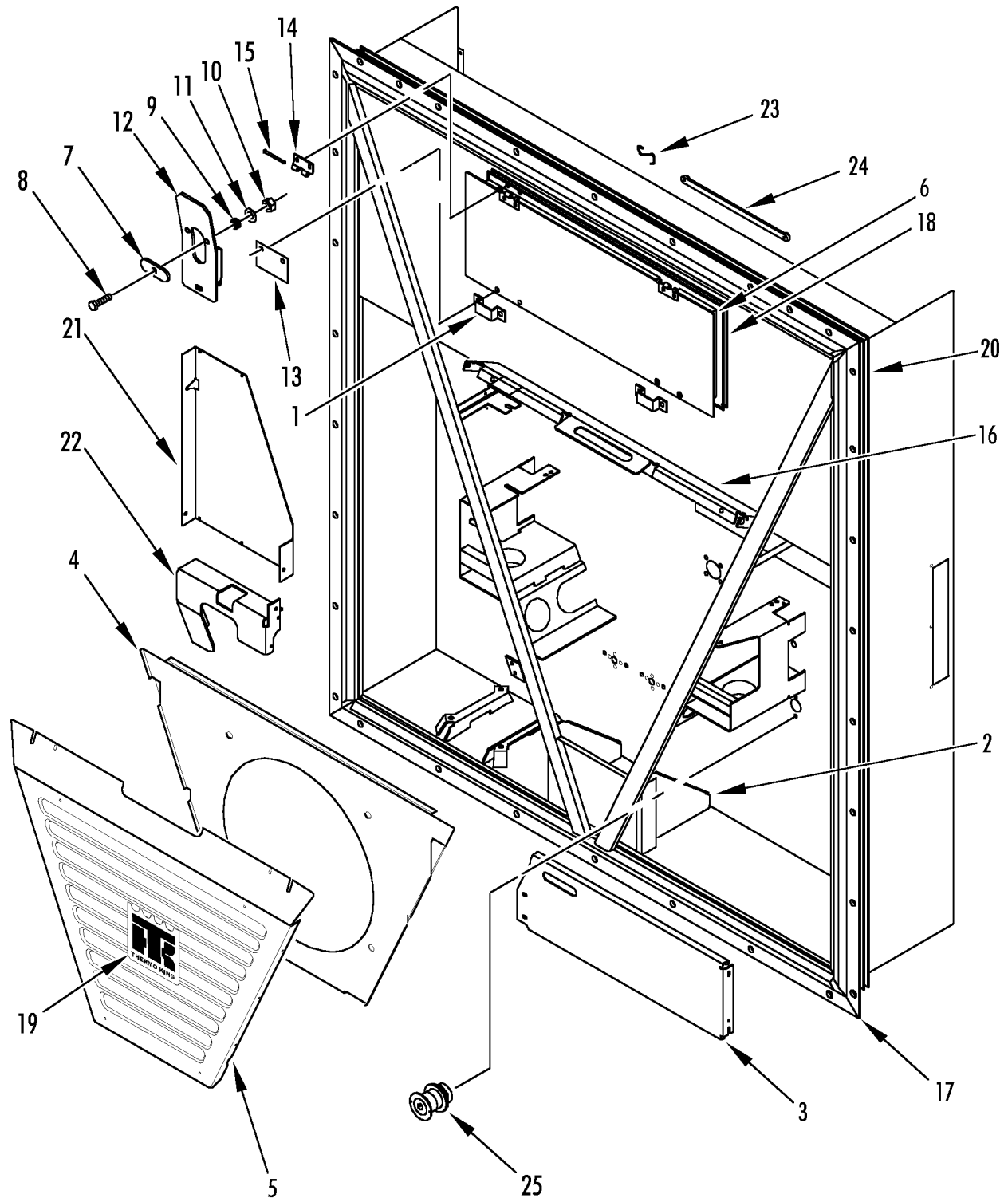


CONDENSER COMPONENTS (UNITS w/o HEATER DOOR)



165A4

REF	PART#	DESCRIPTION	QTY
1	91-8195	KEEPER - door latch	3
	55-9312	SCREW - keeper (TIR seal)	6
	55-8876	WASHER	6
	55-8892	WASHER (nylon)	6
	55-8877	WASHER (nylon)	6
2	91-8108	BRACKET - frame	1
	55-8883	SCREW - bracket	3
	55-8881	WASHER	6
	55-8882	WASHER (nylon)	6
	55-8880	NUT	3
3	91-9504	PLATE - cable storage (front)	1
	55-8887	NUT	2
	55-8892	WASHER (nylon)	6
	55-6994	SCREW - plate	2
	55-6695	FLATWASHER	6
	55-8933	WASHER (nylon)	6
4	91-9912	ORIFICE - condenser	1
	55-7035	SCREW - orifice	4
	55-7075	FLATWASHER	4
	55-3045	WASHER - dome	4
	55-8849	NUT - captive	4
5	98-5637	GRILLE - condenser	1
	55-6994	SCREW - grille	4
	55-6995	FLATWASHER	4
	55-9054	WASHER (nylon)	4
6	509-755	DOOR - evaporator	1
7	91-9040	KNOB	3
8	55-8879	SCREW - door	3
9	91-8199	SPRING	3
10	55-8900	NUT	3
11	55-8892	WASHER (nylon)	3
12	91-9041	LATCH - door	3
	55-2864	RIVET - latch	6
13	91-8134	INSULATOR - latch	3
14	509-1654	HINGE	3
	55-9313	SCREW - hinge (TIR seal)	6
	55-8882	WASHER (nylon)	6
	55-8881	WASHER	6
15	91-8256	PIN - hinge (w/snap)	3
16	92-426	BRACKET - safety hook	1
	55-6993	SCREW - bracket	4
	55-7085	WASHER	8

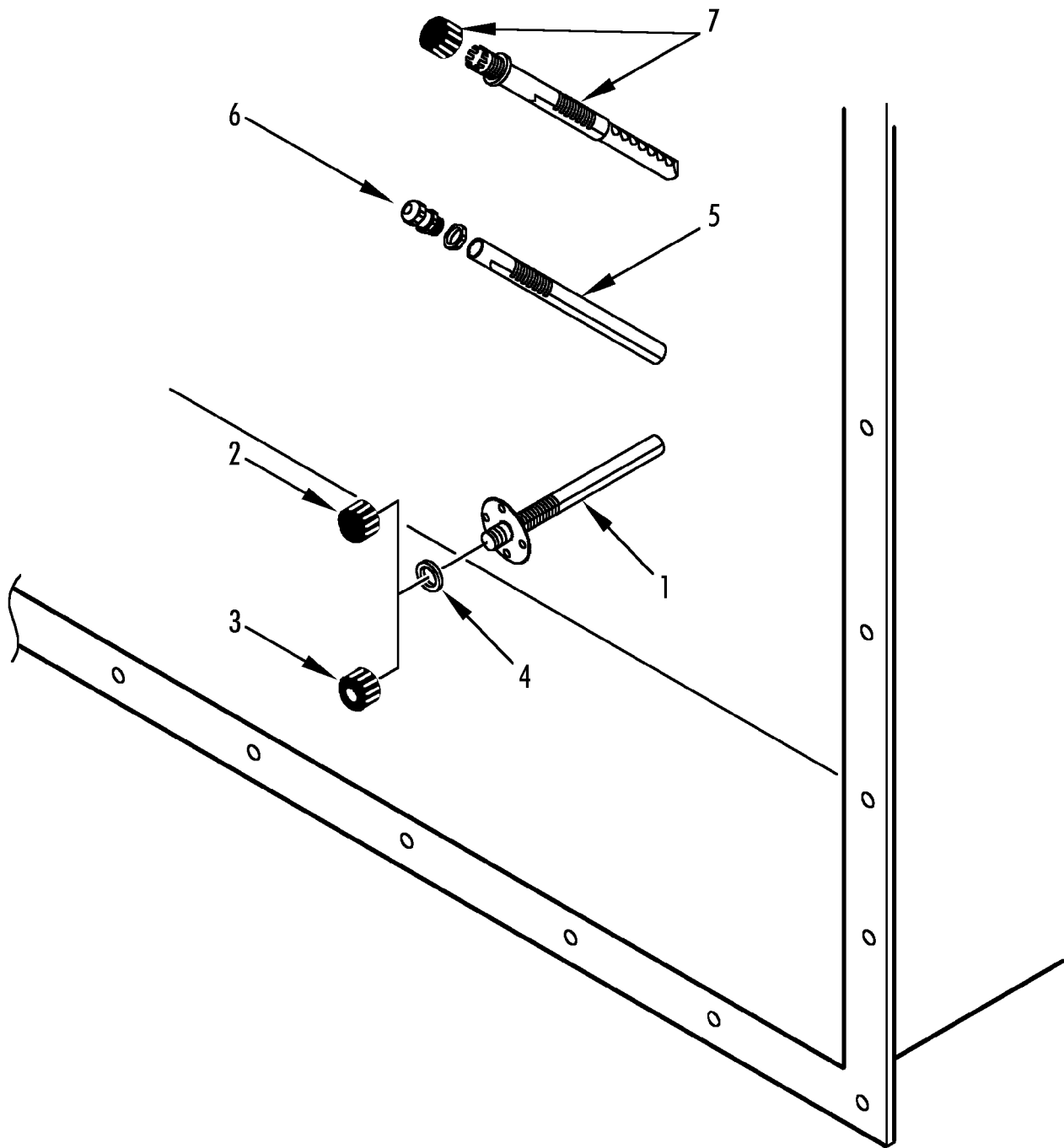


CONDENSER COMPONENTS (UNITS w/o HEATER DOOR)



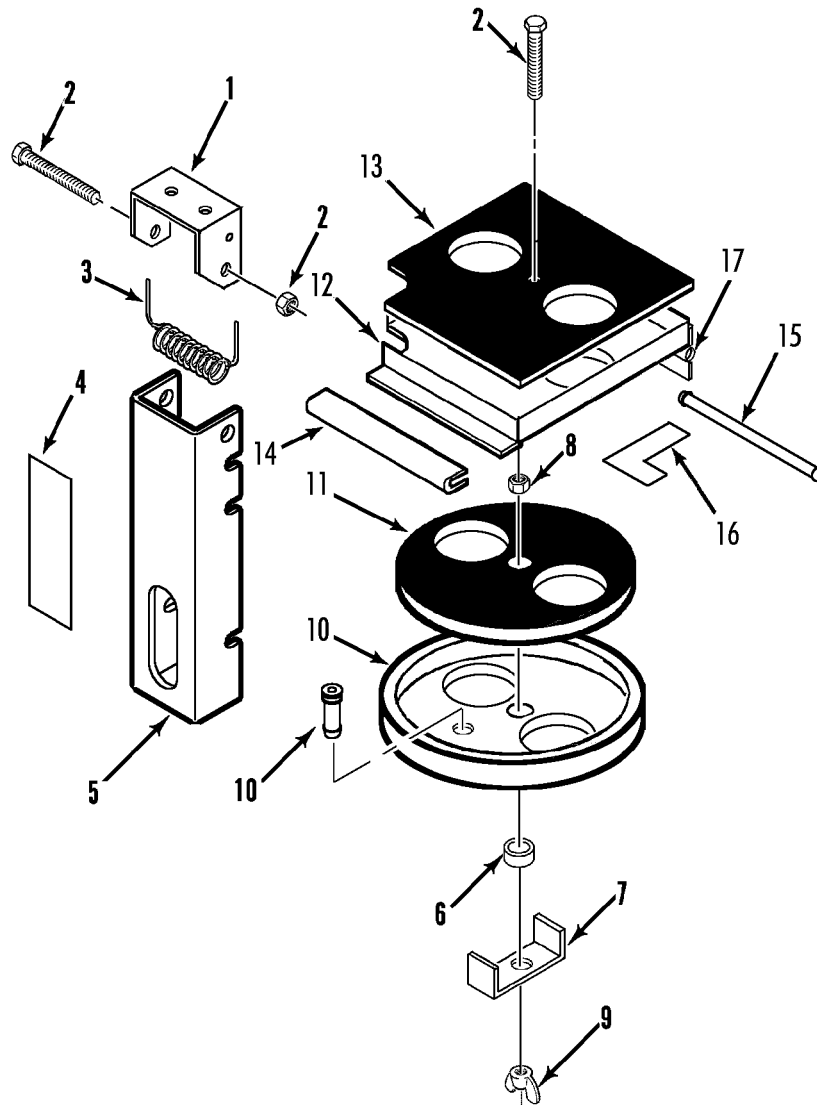
165A4

REF	PART#	DESCRIPTION	QTY
	55-8882	WASHER (nylon)	8
17	98-5902	FRAME - condenser	1
	98-5796	FRAME - condenser (Transfresh, option 098152)	1
18	33-3001	GASKET - evaporator door	1
19	91-9511	NAMEPLATE - TK	1
20	33-2983	GASKET - unit	1
21	91-8728	COVER (instead of thermometer)	1
	55-7391	SCREW - cover	3
	55-6988	FLATWASHER	3
	55-8881	WASHER (nylon)	3
22	91-8664	PLATE - guard	1
	55-7341	SCREW - plate (20 mm)	2
	55-6993	SCREW - plate (25 mm)	1
	505-214	WASHER (nylon)	3
23	91-9039	HOOK - strap	1
	55-3065	CLAMP - hook	1
	55-9166	SCREW - clamp	1
24	509-937	STRAP - door	1
	55-9173	SCREW - strap	1
	55-7089	FLATWASHER	2
25	91-9952	PORT - purge (option 098152)	1
	55-9211	RIVET - port	2



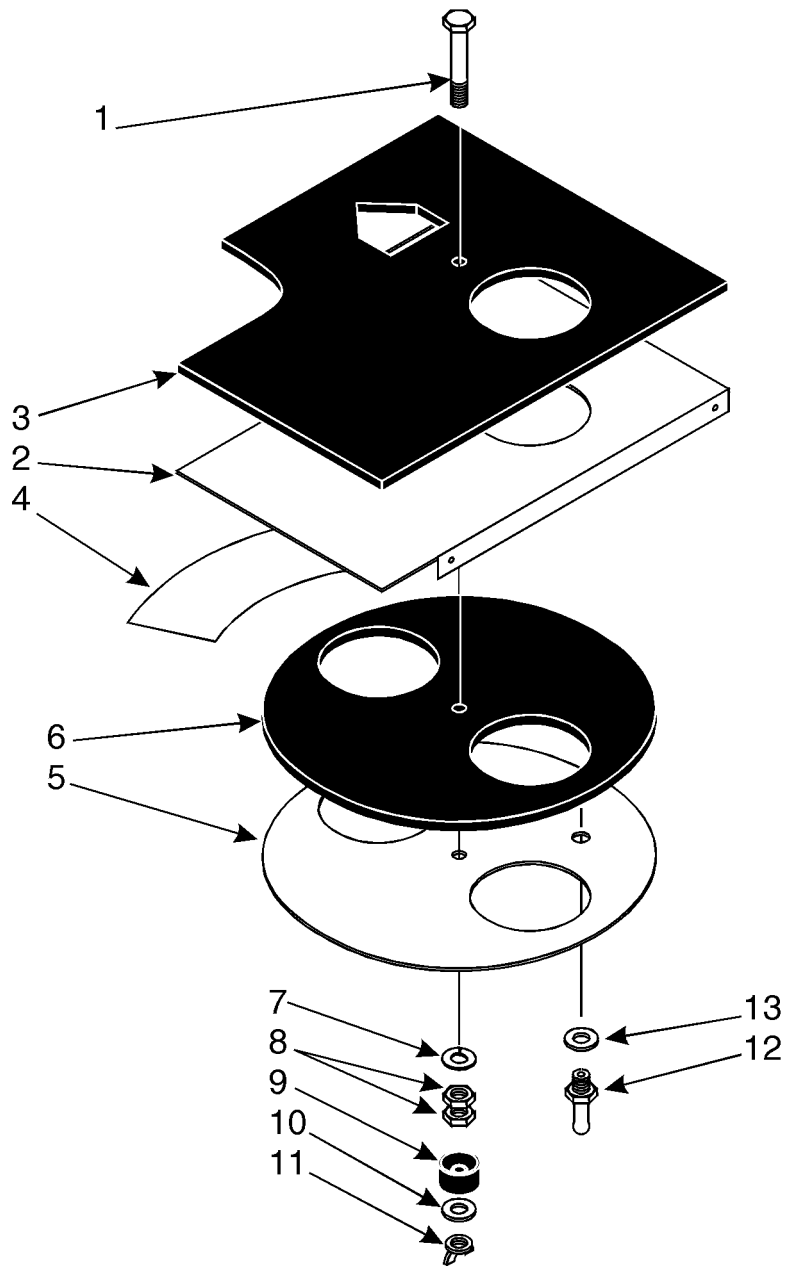


REF	PART#	DESCRIPTION	QTY
1	509-963	BRACKET - probe	1
2	91-8206	CAP - retainer (w/o hole)	1
3	91-8702	CAP - retainer (w/hole)	1
4	33-2960	GASKET - retainer	1
5	91-9755	POCKET - sensor	1
6	55-6409	CONNECTOR - sensor	1
7	91-9754	POCKET - sensor	1



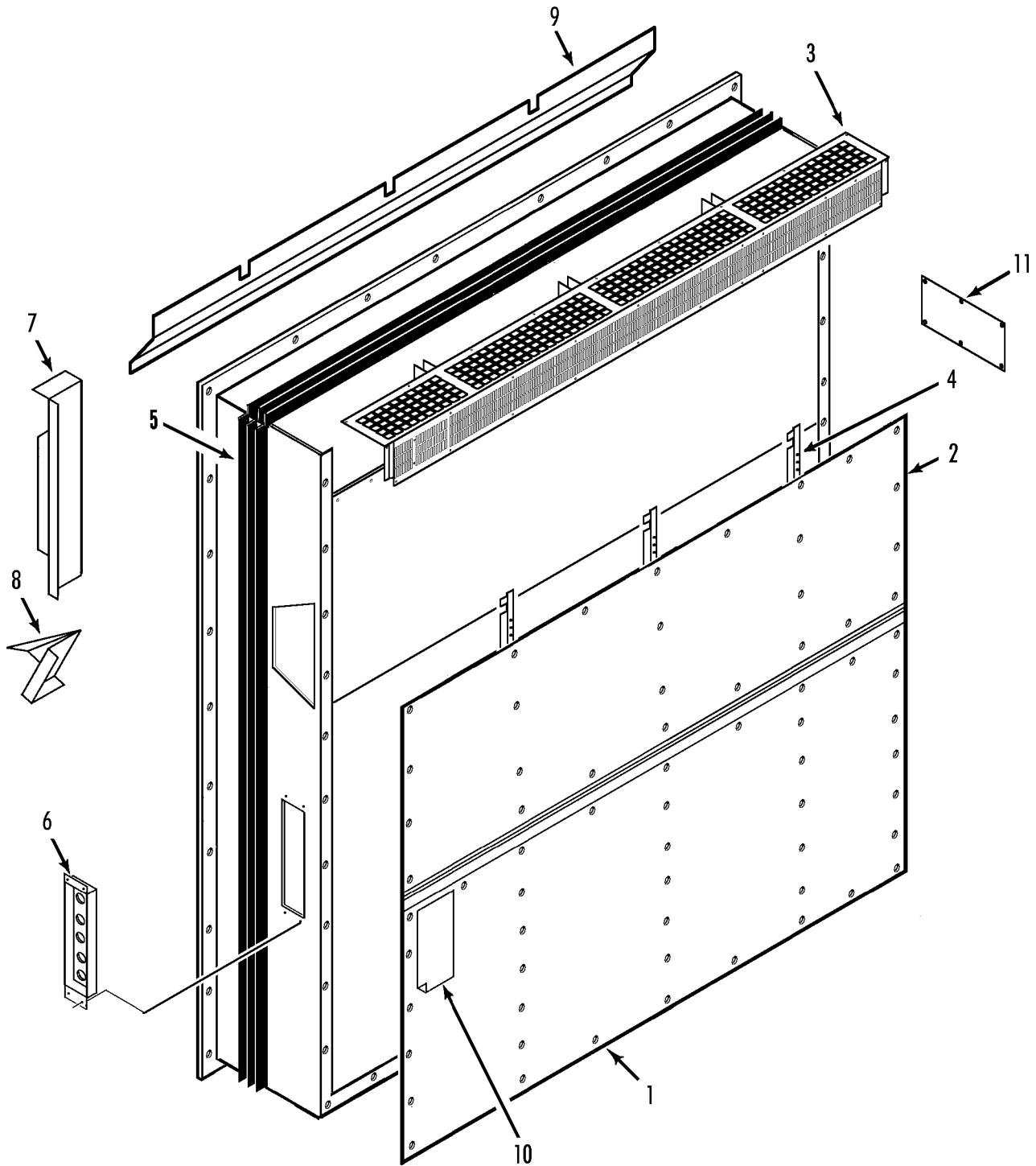


REF	PART#	DESCRIPTION	QTY
1	91-9048	BRACKET - air vent handle	1
2	55-9541	SCREW - handle & disk	1
	55-8888	WASHER (nylon)	4
	55-7339	NUT	1
3	91-8100	SPRING	1
4	91-9831	NAMEPLATE - do not open below 0 C	1
5	91-8102	HANDLE - air vent	1
6	77-2467	BEARING - slide	1
7	91-8104	BRACKET - handle	1
8	55-7825	NUT	2
	55-7342	LOCKWASHER	1
	55-7085	FLATWASHER	1
9	55-8882	NUT - wing	1
10	91-8103	DISK - air vent	1
11	503-270	• GASKET - air vent	1
12	91-8105	PLATE - air vent	1
	55-7172	SCREW - plate	4
	55-7075	FLATWASHER	4
	55-8877	WASHER - nylon	4
13	33-2944	GASKET - air vent	1
14	91-8663	PROTECTOR - edge	1
15	91-8106	PIN - hinge	1
16	92-440	NAMEPLATE - do not open below 0 C	1
17	92-411	HINGE - air vent	1



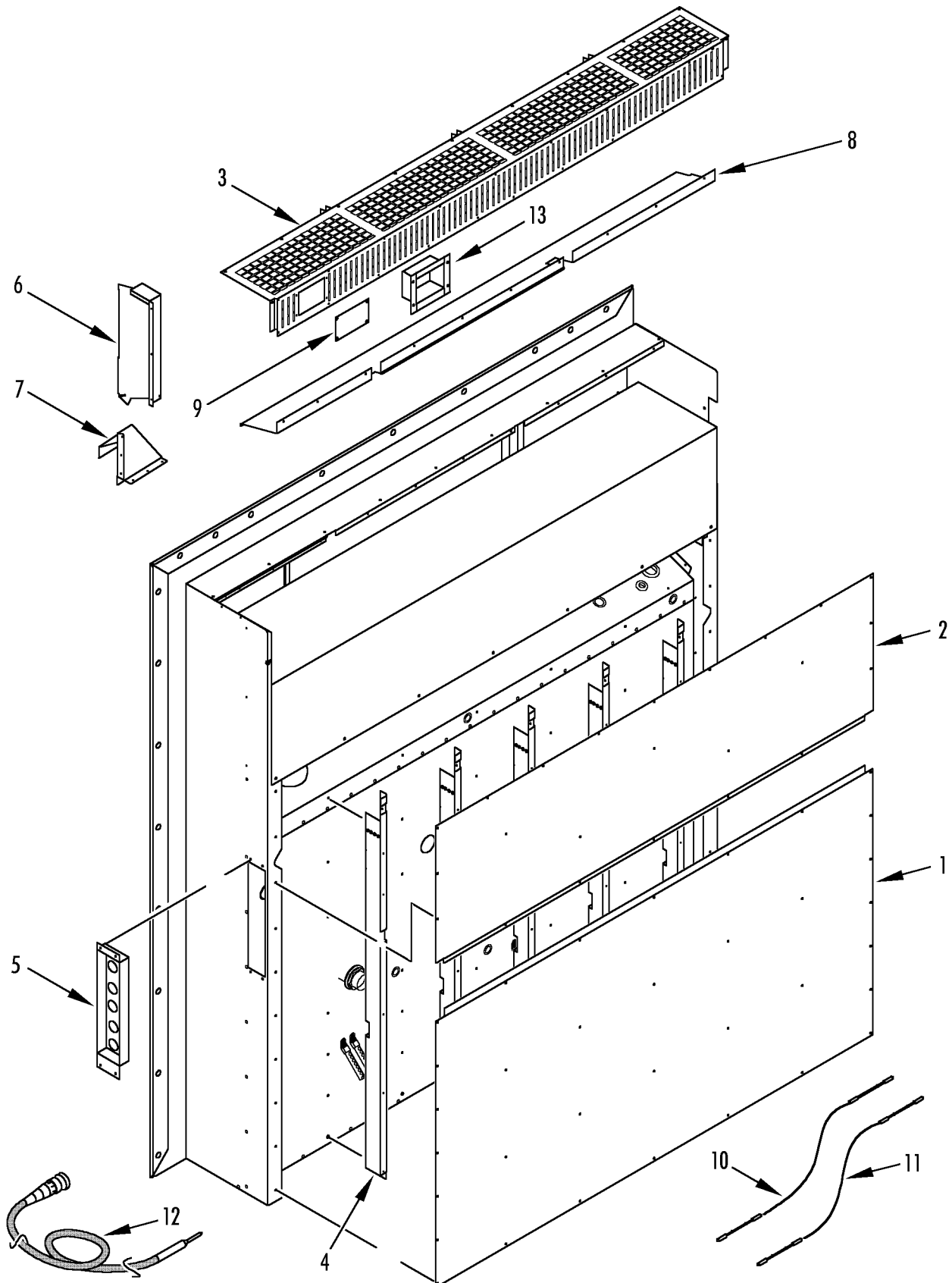


REF	PART#	DESCRIPTION	QTY
1	55-7349	SCREW - air vent	1
2	509-1774	PLATE - air vent	1
3	503-363	• GASKET - air vent	1
	55-8875	SCREW	6
	55-8893	WASHER	6
	55-8877	WASHER (nylon)	6
4	509-1775	NAMEPLATE - air ventilation	1
5	509-481	DISK - air vent	1
6	503-270	• GASKET	1
7	55-7342	LOCKWASHER	1
8	55-7825	NUT	2
9	509-1792	BEARING - slide	1
10	55-7085	FLATWASHER	1
11	55-8888	NUT - wing	1
12	55-9168	BARB - hose adapter	1
13	55-8886	WASHER (nylon)	1



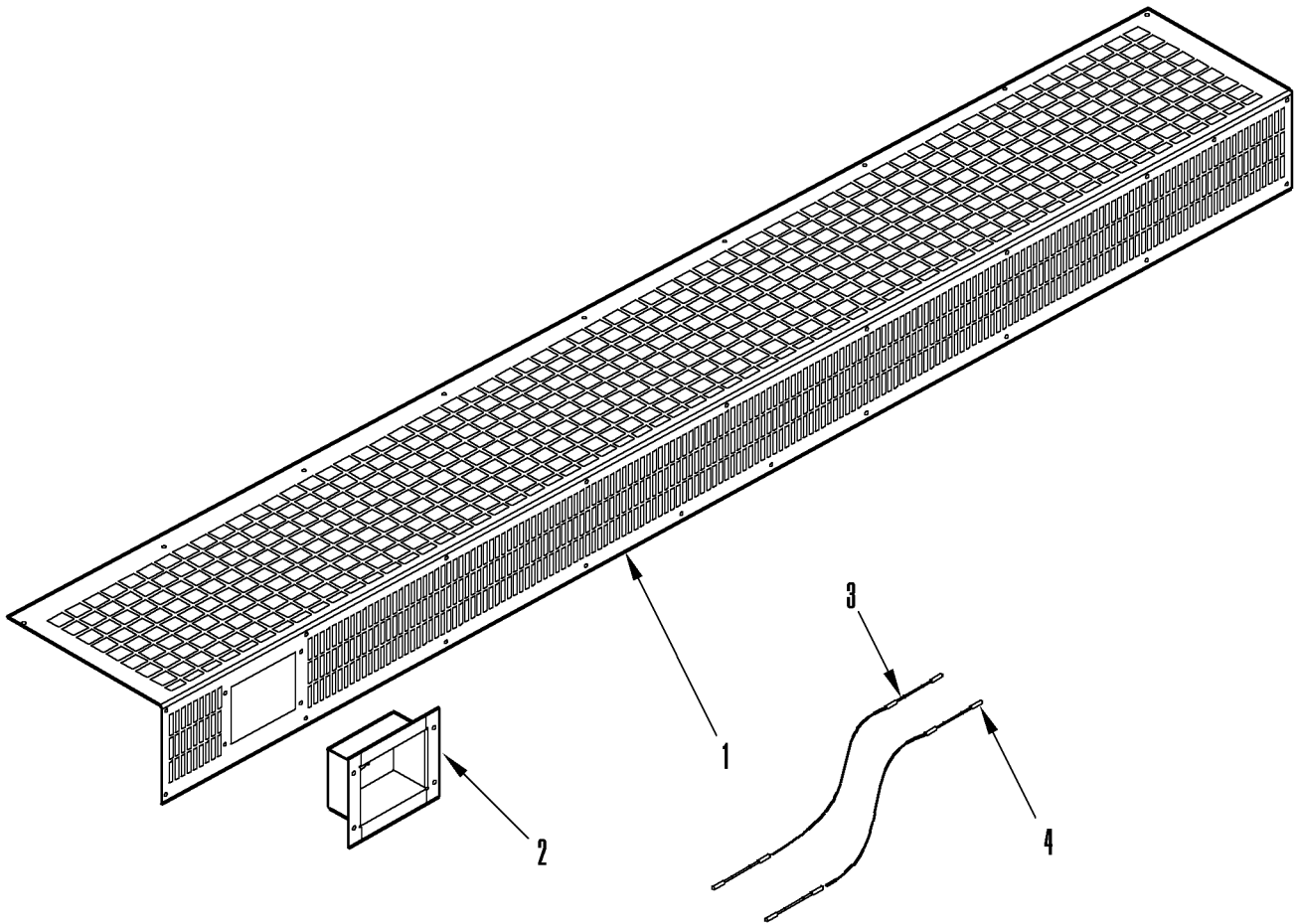


REF	PART#	DESCRIPTION	QTY
1	98-5640	PLATE - rear (bottom, 2 mm thick)	1
2	98-5641	PLATE - rear (top, 2 mm thick)	1
	55-2264	RIVET - plate	36
3	509-1766	GRILLE - evaporator (CSR 20SL)	1
	98-5704	GRILLE - evaporator (CSR 40SL)	1
	98-5725	GRILLE - evaporator (Transfresh option 098152, see 158D0)	1
	55-2264	RIVET - grille	17
4	509-1772	CHANNEL - Z	3
	55-9055	RIVET - channel	21
5	33-2983	GASKET - unit	1
6	91-9921	PANEL - USDA receptacle (see 158C9)	1
7	91-9923	CHANNEL - air	1
	203-389	SEALER - polyurethane	A/R
	55-8902	RIVET - channel	8
8	91-9924	INLET - fresh air	1
	55-8902	RIVET - inlet	1
	203-389	SEALER - polyurethane	A/R
9	91-8136	CHANNEL - fresh air	1
	55-2270	RIVET - channel	8
10	92-243	NAMEPLATE - data download USDA	1
11	509-1644	COVER - plate	1





REF	PART#	DESCRIPTION	QTY
1	98-5773	PLATE - rear (bottom)	1
2	98-5772	PLATE - rear (top)	1
	55-3136	RIVET - plate	57
3	98-5904	GRILLE - evaporator	1
	98-5725	GRILLE - evaporator (Transfresh, option 098152)	1
	55-2264	RIVET - grille	17
4	92-427	CHANNEL - z	5
	55-9055	RIVET - channel	28
5	NSS	PANEL - USDA receptacle (see 165A5)	1
6	91-9923	CHANNEL - air	1
	203-389	SEALER - polyurethane	A/R
	55-8891	SCREW - channel	6
7	91-9924	INLET - fresh air	1
	55-2270	RIVET - inlet	10
	203-389	SEALER - polyurethane	A/R
8	91-8136	CHANNEL - fresh air	1
	55-2270	RIVET - channel	8
9	98-5775	PLATE - cover (Transfresh)	1
	55-7713	RIVET - plate	4
10	41-2554	CABLE - Transfresh (option 098150)	1
11	41-2555	CABLE - Transfresh (option 098150)	1
12	41-3343	SENSOR - PT100 (option 098106)	2
13	91-8715	BOX - Transfresh (option 098152)	1
	55-7713	RIVET - box	4



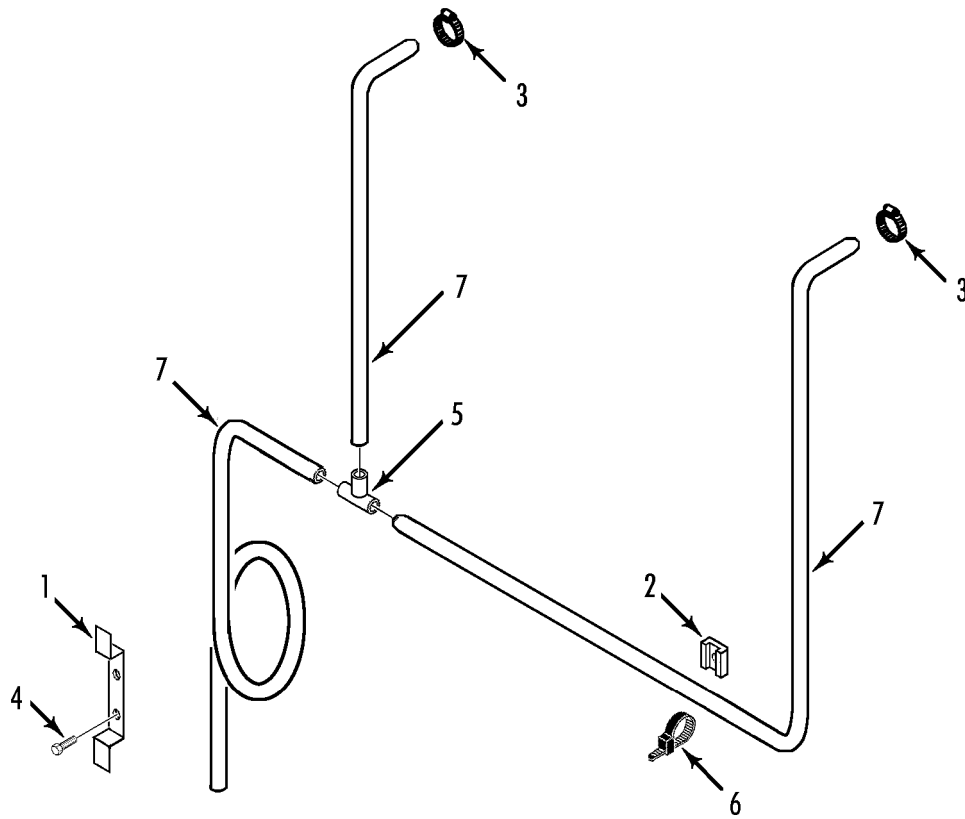
Revised
4/12/00

TRANSFRESH GROUP (OPTION 098152)



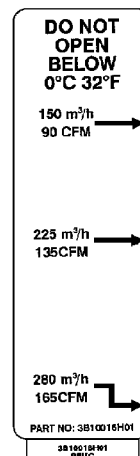
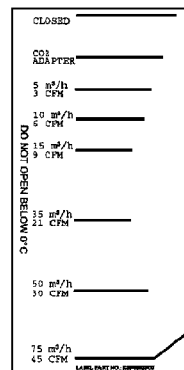
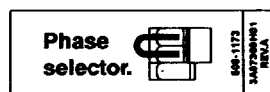
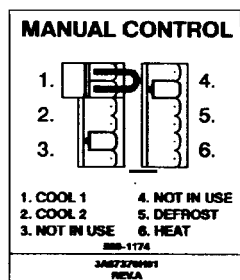
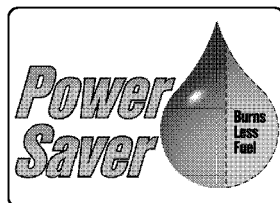
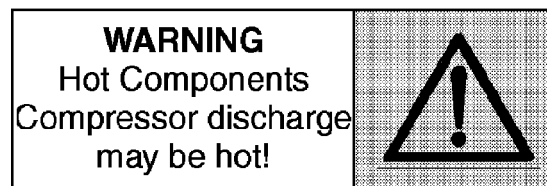
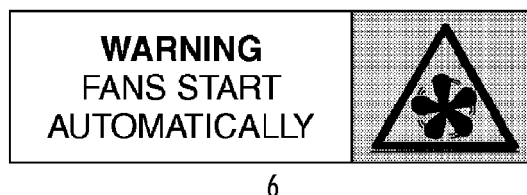
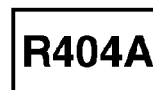
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REF	PART#	DESCRIPTION	QTY
1	98-5725	GRILLE - evaporator (CSR 40SL)	1
2	91-8715	BOX - Transfresh	1
	55-7713	RIVET - box	4
3	41-2554	HARNESS - Transfresh (w/red bandwrap, 160 in lg)	1
4	41-2555	HARNESS - Transfresh (w/green bandwrap, 120 in lg)	1





REF	PART#	DESCRIPTION	QTY
1	91-8244	BRACKET - hose	1
2	99-3281	MOUNT - cable tie	5
	91-8111	RIVET - anchor	5
3	55-2686	CLAMP - hose	2
4	55-9119	SCREW - bracket	2
5	55-9208	CONNECTOR - T-hose	1
6	55-2330	BANDWRAP	6
7	11-8983	HOSE - flex	1





REF	PART#	DESCRIPTION	QTY
1	91-9511	NAMEPLATE - TK	1
2	91-8746	NAMEPLATE - Ingersoll Rand	1
3	92-723	NAMEPLATE - Power Saver	1
4	91-9778	NAMEPLATE - Thermo King	1
5	91-5882	NAMEPLATE - R404A	1
6	91-8694	NAMEPLATE - Warning, Fan Start	1
7	91-8695	NAMEPLATE - Warning, Hot Components	1
8	91-8154	NAMEPLATE - R404A	1
9	92-243	NAMEPLATE - data download USDA	1
10	91-9833	NAMEPLATE - Caution	1
11	91-9382	NAMEPLATE - Warning	1
12	91-9383	NAMEPLATE - Main Relay Board	1
13	91-9384	NAMEPLATE - Main Relay Board	1
14	91-8107	NAMEPLATE - Air Exchanger	1
15	91-9441	NAMEPLATE - Air Exchanger	1

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