



PM- 281136 D

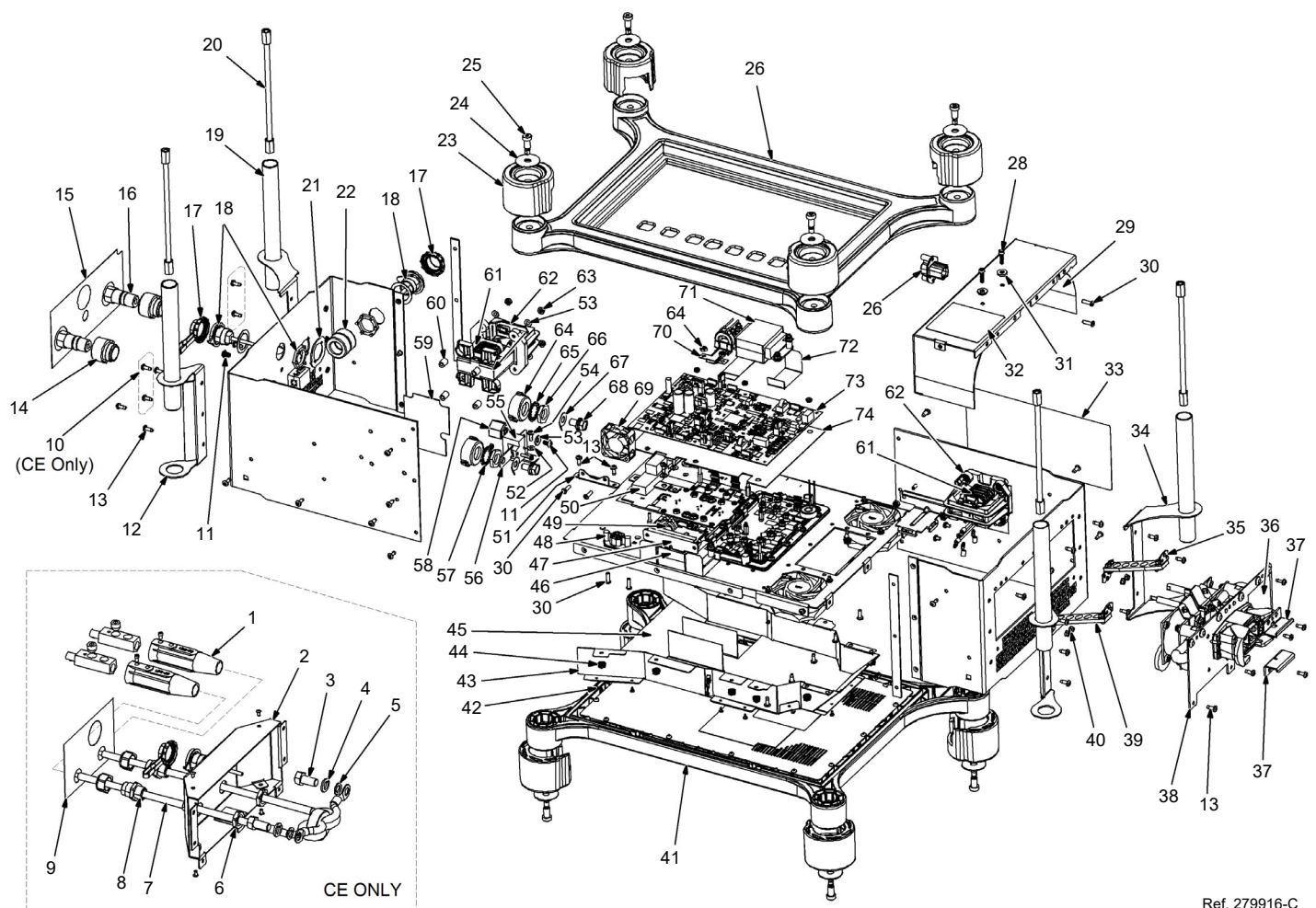
ArcReach Heater

For Non-CE and CE Models

Effective with Serial Number
MK470168G - ZZ222222



PARTS MANUAL



Ref. 279916-C

Main Assembly

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		287915	Conn, Tw Lk Insul Male (Dinse Type) 50 Ser Cable Cnct (CE)	2
2		287647	Cover, Choke (CE)	1
3		RMA-103	1/2-13 Hex Cap Screw, Br (CE)	2
4		RMA-106	Washer, Lock 1/2 in (CE)	2
5		288133	Washer, Flat .500 Id x 0.750 Od x 0.90T Brs (CE)	2
6		217030	Nut, Locking Strain Relief 1/2 in Npt .270 Thick (CE)	2
7		288127	Choke Assy, w/Leads (CE)	1
8		217028	Bushing, Strain Relief .390/.560 Id x .830 Mtg Hole (CE)	2
9		287706	Label, Work/Electrode/USB (CE)	1
10		229768	Screw, 010-32 x 50 Pan Hd-Torx Machine Stl Pld (CE)	4
11		284751	Screw, .250-20 x .375 Button Hd-Soc Sst Blk Lkg Patch	2
12		281013	Bracket, Handle Support Btm	2
13		195666	Screw, 010-32 x 50 Pan Hd-Torx w/Gndrng Stl Pld	34
14		250037	Insulator, Bukhead Front 890 Od	2
15		284158	Label, Work/Electrode/USB	1
16		260804	Receptacle, FM Threaded	2
17		244237	Dust Cap	1
18		283392	Cable, USB Type A Sealed Panel Mount	2
19		281292	Assy, Threaded Rod w/Coupling Nuts	2
20		276827	Handle, Tube	2
21		255271	Gasket, Receptacle	2
22	L3-L4	194254	Core, Toroidal 22.25mm Id x 39.96mm Od x 15.88mm Th	2
23		277172	Bumper, Rubber	8
24		279822	Washer, Flat .348 Id x 1.500 Od x .062T Stl Pld Blk	8
25		281294	Screw, Shld Stl Sch .312-18 x .375 x .625 Shld Pld	8
26		277421	Assy, User Interface	1
26		ArcReach Heater User Interface Assembly		
27		281282	Plug Assy, Elect	1
28		281576	Screw, .010-32 x .75 Soc Hd-Slt Nylon w/ Stl Pin	2
29		281012	Insulator, Plenum	1
30		229868	Screw, 010 x 65 Pan Hd-Torx Stl Pld Hi-Low	8
31		255006	Washer, Flat Seal .265 Id x 0.500 Od x .125T Epdm	3
32		283555	Label, Danger ArcReach Heater Insulator	1
33		281334	Label, Warning General Precaut Induction (En/Fr/Sp)	1
34		277322	Bracket, Handle Support	2
35		284610	Assy, Tank Cap Support Top	2
36		281333	Label, Danger High Voltage 3.000 x 2.750 (En/Fr/Sp)	1
37		284607	Bracket, Retainer Harting	2
38	C1, C2	288563	Kit, Output Power Assembly	1
/		276799	Assy, Output Power ArcReach Heater	1
/		288564	Instruction, Field Power Output Assy	1
39		284609	Assy, Tank Cap Support Bottom	1
40		156734	Nut, 0.10-32 .31Hex .13H Stl Pld Sem Cone Wshr .38D	8

*Recommended Spare Parts ~ Optional ↓ Item includes other parts. → Item is part of a subassembly.

+ When ordering a component originally displaying a precautionary label, the label should also be ordered.

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Main Assembly

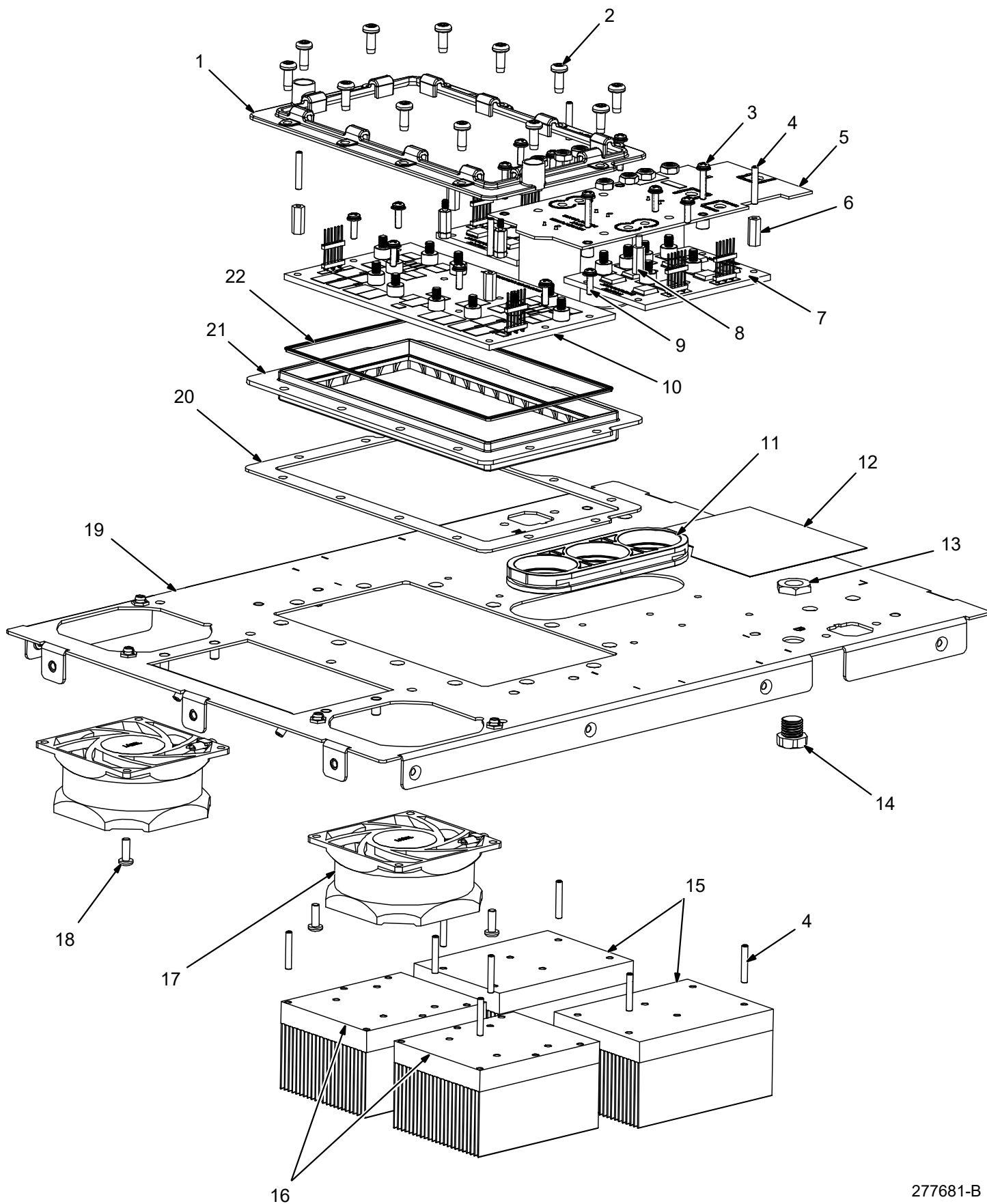
Item No.	Dia. Mkgs.	Part No.	Description	Qty
41		277853	Assy, Rear Panel	1
42		146549	Rivet, Plastic 122 Hole x 0.39-0.79 Grip Push	14
43		276843	Panel, Plenum	1
44		284853	Nut, Kiwk 5mm Stud Push-On Nylon Blk	14
45		282989	Insulator, Plenum Cover	1
46	T1	282157	Assy, Planar Xfmr Right	1
47		275598	Bracket, Transformer	1
48	PLG116	278084	Plug Assy, Fan	1
49		281340	Assy, Bus Bar Xfmr Right Side	1
50	CR1	257410	Contact, 12VDC 1Pst Latching	1
51		278390	Bracket, Fan 50mm	1
52		010913	Washer, Flat .218 Id x 0.460 Od x .031T Brs	11
53		602241	Washer, Flat .281 Id x 0.625 Od x 0.65T Stl Pld Ansi .250	1
54		265825	Screw, 010-32 x 50 Pan Hd-Torx Stl Pld Lkg Patch	3
55	HD1	191941	Transducer, Current 200A Module Supply V +/- 15V	1
56		275496	Bus Bar, Current Relay Input	1
57		174076	Nut, 006-32 .31Hex .15H Stl Pld Sem Cone Wshr .38D	9
58		026947	Stand-Off, Insul .250-20 x 1.000 Lg x .312 Thd	1
59		282140	Insulator, Output Inductor	2
60		280710	Spacer, Al .192 Id x .375 Od x .500 Lg	8
61	L1-L2	284473	Inductor, Output 650 mH	2
62		285573	Bracket, Output Inductor	2
63		284993	Nut, 010-32 .38Hex .171H Zc Pl Stl Elastic Stop	27
64		250039	Insulator, Bulkhead Rear 890 Od	2
65		185714	Washer, Tooth 22mm Id x 31.5mm Od 1.310-1mmT Intern	2
66		185717	Nut, M20-1.5 1.00Hex .19H Brs Locking	2
67		253430	Connector, Faston 1/4 Ring w/45Deg Bend 406 Id	2
68		229333	Screw, M10 - 15 x 20 Hex Hd-Pln 8.8 Pld Sems	2
69	FM3	262612	Fan, Muffin 24Vdc 7000 Rpm 18 Cfm 50mm	2
70		281341	Assy, Bus Bar Xfmr Left Side	1
71	T2	282156	Assy, Planar Xfmr Left	1
72		278498	Insulator, Xfmr Connections	4
73	PC1	288159	Kit, Circuit Card PC1 and C10 Capacitor (Prior to ND420516C)	1
/	PC1	295272	Circuit Card Assy, Heater Control w/Program CSA (Eff/w ND420516C)	1
73	PC1	295350	Kit, Circuit Card PC1 CE (Prior to ND420516C)	1
/	PC1	295351	Circuit Card Assy, Heater Control w/Program CE (Eff/w ND420516C)	1
74		281565	Insulator, Control Board	1

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277681-B

Internal Panel Assembly

Internal Panel Assembly

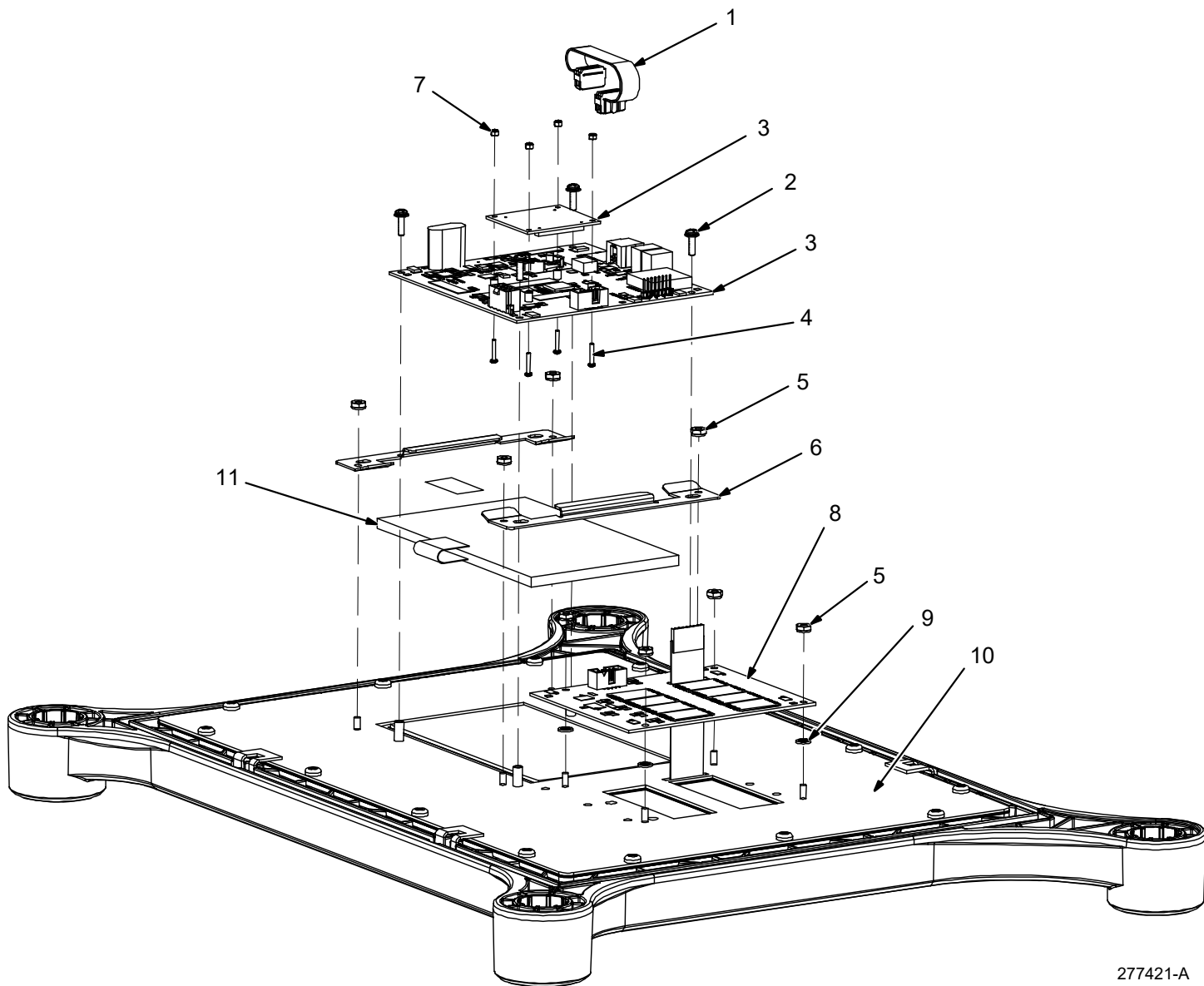
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		277504	Retainer, Heat Sink	1
2		281134	Screw, 010-32 x .50 Pan Hd-Torx Stl Tri-Lobe Pld Blk	12
3		196014	Screw, 006-32 x 75 Pan Hd-Phl Square Cone Sems Clr	2
4		280543	Screw, Set #6-32 x .87 Cup Pt Soc Hd-Hex Pld	12
5	PC2	271650	Circuit Card Assy, Fc Heater Power Input	1
6		073756	Stand-Off, No 6-32 x .625 Lg .250 Hex Al Fem	4
7	PC3, PC4	271523	Circuit Card Assy, Fc Heater Pwr Intrcnct	2
8		212367	Stand-Off, No 6-32 x .625 Lg .250 Hex Stl M&F	2
9		272529	Screw, No 6-32 x 1/2 Ph Pan Hd w/Sqco Zc Sems	10
10	PC5	297115	Kit, ArcReach Heater PC5 Module	1
11		277424	Gasket, Bus Cap	1
12		278509	Insulator, Input Connection	1
13		286476	Nut, M12-15 Blk Gf Nylon	1
14		286471	Vent, Breather M12-15	1
15		275488	Heat Sink, Power Interconnect	2
16		275487	Heat Sink, Output Bridge	2
17	FM1, FM2	269556	Fan, Muffin 24Vdc 9000 Rpm 132 Cfm 80mm	2
18		143360	Screw, 008-32 x 50 Pan Hd-Phl Stl Pld Blk	4
19		280753	Panel, Internal w/Pems	1
20		280964	Gasket, Output Bridge Frame	1
21		277503	Insulator, Heat Sink	1
22		277422	Gasket, Output Bridge	1

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277421-A

User Interface Assembly

User Interface Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		254529	Cable, Ribbon 10 Posn 5.000 in Skts To Skts	1
2		272529	Screw, No 6-32 x 1/2 Ph Pan Hd w/Sqco Zc Sems	4
3	PC7,PC8	289048	Kit, Heater Circuit Card PC7 And PC8 (Must provide serial number)	1
4		285658	Screw, M2-4 x 12 Pan Hd Phl Stl Pld	4
5		174076	Nut, 006-32 .31Hex .15H Stl Pld Sem Cone Wshr .38D	8
6		284608	Bracket, Retainer LCD	2
7		285659	Nut, M02-04 Zinc Pld Nylon Insert Locking	4
8	PC6	289139	Kit, Heater PC6 LED Circuit Card Replacement	1
9		277395	Washer, Nylon Slf Rtng .128 Id x .328 Od .022 Thk	4
10		189140	Kit, Heater Front Panel Assy Replacement	1
11		289138	Kit, Heater LCD Display Replacement	1

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