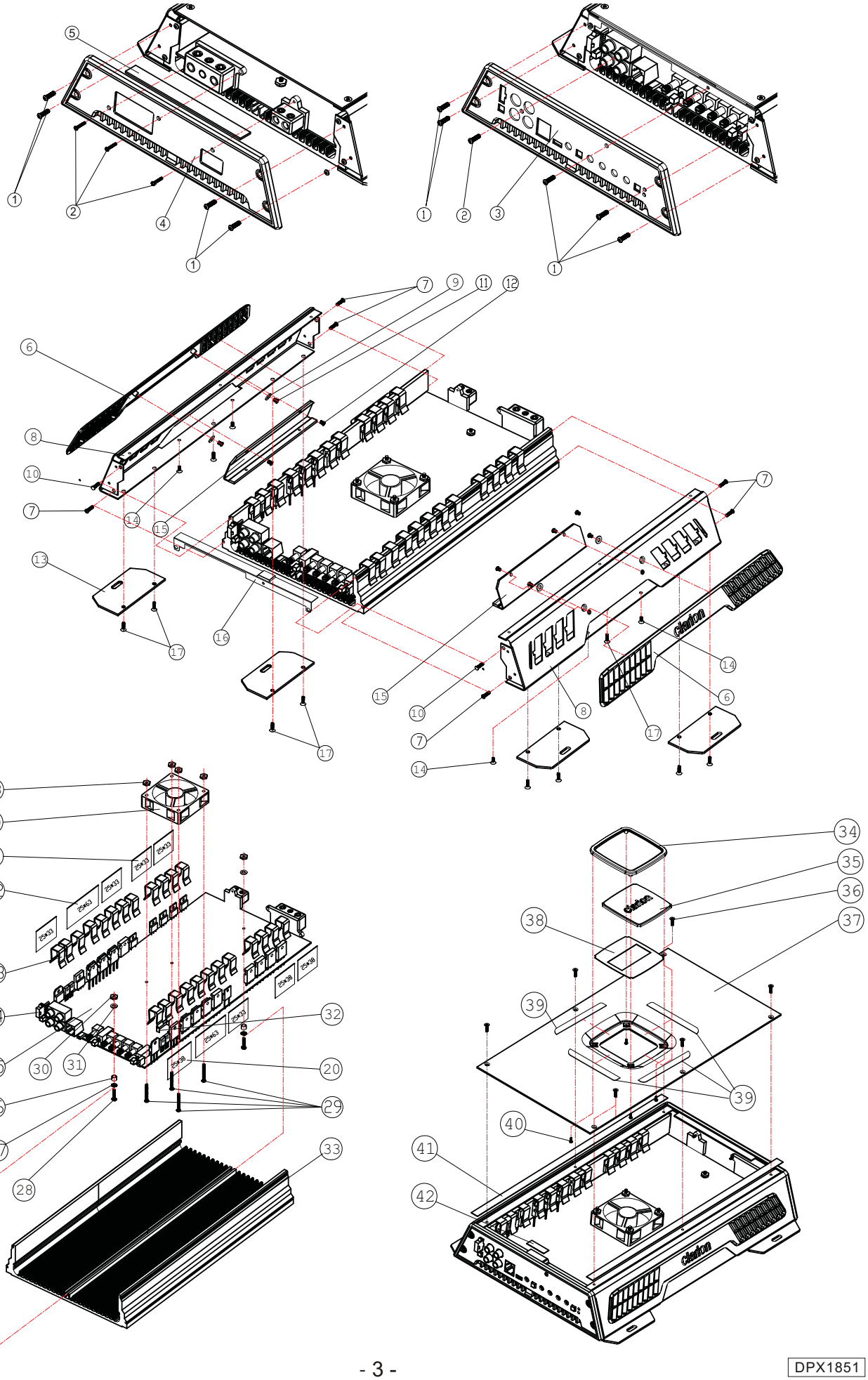
■TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
NO AUDIO	LOW OR NO REMOTE TURN-ON VOLTAGE	CHECK REMOTE CONNECTIONS AT AMPLIFIER AND SOURCE UNIT.
	BLOWN AMPLIFIER FUSE	REPLACE WITH NEW FAST-BLOW FUSE (SAME RATING).
	POWER WIRES NOT CONNECTED	CHECK BATTERY AND GROUND WIRING AT AMPLIFIER; ALSO CHECK BATTERY CONNECTIONS.
	SPEAKER LEADS SHORTED	CHECK SPEAKER CONTINUITY TO GROUND, IT SHOULD NOT SHOW A COMMON GROUND.
	SPEAKERS NOT CONNECTED OR ARE BLOWN	CHECK SPEAKER CONNECTIONS AT AMPLIFIER, MEASURE COIL IMPEDANCE.
AUDIO CYCLES ON AND OFF	THERMAL PROTECTION CIRCUITS ARE SHUTTING AMPLIFIER OFF	CHECK LOCATION FOR ADEQUATE VENTILATION; CONSULT AN AUTHORIZED CLARION AUDIO DEALER.
DISTORTED AUDIO.	GAIN IS NOT SET PROPERLY, OR DAMAGED SPEAKER CONES	REVIEW SETTING GAIN; INSPECT EACH SPEAKER CONE FOR SIGNS OF DAMAGE (I.E., FROZEN CONE, BURNING SMELL, ETC.)
AMPLIFIER FUSE KEEPS BLOWING	INCORRECT WIRING OR SHORT CIRCUIT	REVIEW INSTALLATION AND CHECK ALL WIRING CONNECTION.
WHINING OR TICKING NOISE IN THE AUDIO WITH ENGINE ON.	AMPLIFIER IS PICKING UP ALTERNATION NOISE OR RADIATED NOISE	TURN DOWN INPUT GAIN AND MOVE AUDIO CABLES AWAY FROM POWER WIRES. CHECK POWER AND GROUND CONNECTIONS ON AMPLIFIER AND INSTALL AN IN-LINE NOISE FILTER ON SOURCE UNIT'S POWER WIRE. ALSO CHECK THE ALTERNATOR AND /OR VOLTAGE. TEST FOR WEAK BATTERY OR ADD WATER TO BATTERY.

■EXPLODED VIEW / PARTS LIST

REF	Part No.	DESCRIPTION	Q'TY
1	SM-VH430-08	MACHINE SCREW M3.0*8 PAN HEX SOCKET BLACK	9
2	ST-VH430-10	TAPPING SCREW T3.0*10 PAN HEX SOCKET BLACK	4
3	71-00746-00	FRONT PANEL ABS DPX1851	1
4	71-00747-00	REAR PANEL ABS DPX1851	1
5	73-00181-00	PC DECORATION PLATE 8*90*1mm	1
6	73-00177-00	VENT ABS BLACK DPX1851	2
7	ST-VH430-06	TAPPING SCREW T3.0*6 PAN HEX SOCKET BLACK	6
8	71-00748-00	SIDE PANEL L=332mm DPX1851	2
9	YH-00028-00	WASHER 1mm *6.5mm/3.6mm	4
10	ST-FQ430-08	TAPPING SCREW "+" FLAT 0.5mm 3*8mm BLACK	2
11	ST-RP430-04	TAPPING SCREW T3.0*4mm ROUND BLACK	4
12	SM-VH430-04	MACHINE SCREW M3.0*4 PAN HEX SOCKET BLACK	4
13	74-00224-00	FOOT BASE L=80mm W=40mm	4
14	ST-NF430-06	TAPPING SCREW M3.0*6mm FLAT HEX SOCKET BLACK	4
15	74-00223-00	ALUMI PLATE L=140mm	2
16	73-00182-00	FRONT BRACKET ZINE CLARION	1
17	SM-NF430-10	MACHINE SCREW M3.0*10mm FLAT HEX BLACK	10
18	NM-OH330-00	NUT M3.0*P0.5	4
19	75-00001-01	FAN 60mm*15mmTALL L-50mm	1
20	78-00471-00	MICA 25mm*63mm	2
21	78-00448-00	MICA 25mm*38mm	3
22	78-00470-00	MICA 25mm*33mm'	5
23	74-00153-00	CLIP BLACK	24
24	35-00121-00	5P CONNECTOR H7755P-05 L-300mm	1
25	11-00708-00	PCB DPX1851 1.02	1
26	YH-00024-01	BRASS RING CU COVER6.3*4.5*4.0NO	2
27	YH-00029-00	NUT BW3.5*8*0.5SZ	2
28	YH-00027-00	SCREW H6#-32T*5/8SZ	2
29	SM-RP430-20	MACHINE SCREW M3.0*20mm TRUSS BLACK	4
30	YH-00026-00	NUT K/NUT6#-32TSZ	2
31	YH-00025-00	WASHER PW4.2*10*1.0SZ	2
32	74-00191-00	TRANSISTER CLIP	1
33	77-00379-00	HEATSINK BLACK L=330mm	1
34	75-00242-00	LOGO FRAME ABS	1
35	75-00241-00	LOGO ABS	1
36	SM-NF230-08	MACHINE SCREW M3.0*8mm FLAT HEX SOCKET NI	6
37	72-00499-00	TOP COVER L=332mm PRINT [850W]	1
38	76-00439-00	LIGHT GUIDE PLATE FR-1 0.25	1
39	78-00488-00	NONWOVEN	4
40	ST-RP420-05	TAPPING SCREW T2.0*5mm BLACK ROUND	4
41	78-00484-00	NONWOVEN 331*7.5*0.2mm	2
42	78-00487-00	NONWOVEN 20*6*0.2mm	5



DPX1851

■ELECTRICAL PART LIST

Part No.	DESCRIPTION	Q'TY	REF. No.
04-21040-87	CERAMIC 104/Z 50V 0805	28	C1 C16 C25 C28 C29 C31 C32 C34 C37 C38 C40 C48 C49 C51 C62 C63 C69 C70 C76 C77 C78 C83 C87 C96 C102 C105 C108 C109
06-00273-00	CAP MMYL ECQB 1H273JF 50V P=5	2	C103 C104
02-22403-41	E/C 2400uf 50V LOW ESR 18*30	10	C19 C20 C21 C22 C23 C90 C91 C92 C93 C94
02-21001-41	E/C 10uf 50V 5*11	8	C2 C8 C11 C12 C13 C14 C27 C65
02-24701-31	E/C 47uf 25V 105° 6.3*11	4	C3 C52 C75 C106
04-21030-85	CERAMIC 103/K 50V 0805	3	C33 C58 C82
04-20680-85	CERAMIC 68P/J 50V 0805	3	C35 C42 C64
06-00104-03	CAP MMYL ECQV 1H104JL 50V P=5	5	C36 C88 C89 C95 C99
04-20100-86	CERAMIC 10P/J 50V 0805	5	C39 C18 C24 C26 C30
06-00104-02	CAP MMYL ECQV 1104JM 100V P=5	2	C4 C107
02-21000-41	E/C 1uf 50V 5*11	2	C41 C61
04-24740-86	CERAMIC 474/Z 25V 0805	5	C43 C44 C47 C57 C84
04-24720-86	CERAMIC 472/K 50V 0805	1	C45
04-21000-85	CERAMIC 100P/J 50V 0805	4	C5 C15 C17 C101
06-00152-00	CAP MMYL ECQB 1H152JF 50V P=5	1	C50
02-24702-31	E/C 470uf 25V LOW ESR 10*15	3	C53 C56 C97
06-00472-02	CAP MMYL ECQB 1H472JF 50V P=5	1	C54
04-21020-85	CERAMIC 102/K 50V 0805	1	C55
02-26803-21	E/C 6800uf 16V LOW ESR 18*30	4	C59 C66 C80 C98
06-00102-02	CAP MMYL ECQB 2102JF 400V P=5	2	C6 C100
06-00823-00	CAP MMYL ECQB 1H823JF 50V P=5	2	C60 C68
04-24700-85	CERAMIC 470P/K 50V 0805	2	C67 C81
06-00224-02	CAP MMYL 224J 100V P=7.5	1	C7
04-22720-85	CERAMIC 272/J 50V 0805	1	C71
04-22730-85	CERAMIC 273/K 50V 0805	1	C72
06-00274-00	CAP MMYL ECQV 1H274JL 50V P=5	4	C73 C74 C85 C86
02-22202-32	E/C 220uf 25V 8*11	1	C79
02-21003-30	E/C 1000uf 25V 105° 10*20	2	C9 C10
09-40016-00	FAST RECTIFIER FES16DT	2	D1 D38
09-04934-85	DL4934-MELF 1A 100V SMD	3	D19 D21 D31
09-01620-01	ULTRA-FAST RECO U16C20C	2	D2 D3
09-01620-02	ULTRA-FAST RECO U16C20A	2	D4 D5
09-04935-85	DL4935-MELF 1A 200V SMD	2	D6 D37
09-14001-85	DIODE 1N4001TB miniMELF SMD	2	D7 D12
09-70001-00	AXIAL DIODE 6A 200V R-6	2	D8 D32
09-14148-85	DIODE 1N4148-SOD80 miniMELF	23	D9 D10 D11 D13 D14 D15 D16 D17 D18 D20 D22 D23 D24 D25 D26 D27 D28 D29 D30 D33 D34 D35 D36
09-00051-85	ZENER 5.1V DL-35 miniMELF	2	DZ1 DZ9
09-20160-85	ZENER 16V DL-35(miniMELF)	2	DZ2 DZ10
09-20180-85	ZENER 18V DL-35 miniMELF	2	DZ3 DZ8
09-20100-85	ZENER 10V DL-35 miniMELF	1	DZ4
09-20060-85	ZENER 6V DL-35 miniMELF	1	DZ5
09-20510-85	ZENER 51V DL-35 miniMELF	2	DZ6 DZ7
32-00668-00	JACK 4P W/G WSP-244VS-03	1	J1
32-00685-01	TERMINAL JSZ2-25A 2P BLACK	1	J2
30-00104-00	RJ41 6P BLACK RIGHT ANGLE 90° ^	1	J3
30-00115-00	2P BASE XH 2.5 180°	1	J4
30-00289-00	5P BASE XH PH2.0 180°	1	J5
32-00658-09	TERMINAL SLB-KOR-3P BLACK	1	J6
01-00098-00	JUMPPER 2mm*63mm H=7mm	1	JP1-JP2
25-00744-00	WIRE WHITE 1015 #12 130mm 8*8	1	JP3-JP8
25-00729-00	WIRE WHITE 1015 #12 210mm 8*8	1	JP4-JP5
25-00743-00	WIRE WHITE 1015 #12 160mm 8*8	1	JP6-JP7
25-00752-00	WIRE BLACK 1015 #12 85mm 8*8	1	JP9-JP10
34-00150-00	5P BASE H7755R-05 L-100mm	1	L+ L- R+ R- GND
20-00113-00	BEAD 110ohm @100MHz 3.5*9*0.8	2	L1 L4
20-00245-00	OUTPUT CHOKE DPX1851-1010	1	L2
76-00388-00	CABLE TIE JL-160 4.8mm*160mm	2	L2
20-00184-00	OUTPUT COIL SE-1000-ZIB	1	L3
19-00302-03	LED BLUE 1L0345FB12E0CF001	6	LED1 LED2 LED3 LED4 LED5 LED6
78-00479-00	SILICONE TUBE 1mm*22mm	12	LED1 LED2 LED3 LED4 LED5 LED6
19-00335-00	LED 3mm RED 1L0341S11A0TE001 ^	1	LED7
19-00338-00	LED 3mm BLUE 1L034FB12C0TE001 ^	1	LED7
24-00316-00	LED HOLDER 3mm 90° LED-306	1	LED7

Part No.	DESCRIPTION	Q'TY	REF. No.
08-00064-00	I.C. HUF75344G3 75A 55V TO-247	6	M1 M2 M3 M4 M5 M6
78-00284-00	SILICONE TUBE 2mm*6mm	24	M1 M2 M3 M4 M5 M6 Q5 Q6 Q7 Q38 Q39 Q40
76-00407-00	TEST PIN JT-1P-CIW	4	P8 P9 P12 P13
08-00107-00	TRANS TIP107 100V 8A T0220 'ST'	1	Q1
78-00348-00	SILICONE TUBE 1mm*8mm	30	Q1 Q2 Q3 Q4 D1 D2 D3 D4 D5 Q33 Q34 Q35 Q36 D38 TH2
08-05401-00	2N5401 160V 600mA EBC TO-92	2	Q17 Q18
08-05551-00	2N5551 160V 600mA EBC TO-92	2	Q19 Q20
08-00340-00	TRANS MJE340G 0.5A 300V 'ON'	2	Q2 Q34
08-26726-00	TR MPS751G 'ON' 2N6726 TO-237	3	Q22 Q30 Q31
08-26715-00	TR MPS651G 'ON' 2N6715 TO-237	3	Q23 Q29 Q32
08-00350-00	TRANS MJE350G 0.5A 300V 'ON'	2	Q3 Q35
08-00102-00	TRANS TIP102 100V 8A T0220 'ST'	1	Q33
08-04883-00	TRANS 2SC4883A 2A 'SANKEN'	1	Q36
08-10006-01	TRANS MPSA06 TO-92 'ON'	1	Q37
78-00323-00	SILICONE TUBE 1mm*10mm	2	Q37
08-03263-00	TRANS 2SC3263 15A 'SANKEN'	3	Q38 Q39 Q40
08-01859-00	TRANS 2SA1859A 2A 'SANKEN'	1	Q4
08-01294-00	TRANS 2SA1294 15A 'SANKEN'	3	Q5 Q6 Q7
08-10056-85	TR MMBTA56LT1 SOT-23 'ON'	7	Q8 Q10 Q11 Q12 Q25 Q27 Q41
08-10006-85	TR MMBTA06LT1 SOT-23 'ON'	10	Q9 Q13 Q14 Q15 Q16 Q21 Q24 Q26 Q28 Q42
01-51000-85	RESISTOR 10 ohm 1% 0805	4	R1 R9 R215 R236
01-52200-85	RESISTOR 22.1 ohm 1% 0805	10	R10 R73 R94 R99 R113 R129 R145 R155 R200 R208
01-55610-85	RESISTOR 562 ohm 1% 0805	1	R100
01-52010-85	RESISTOR 200 ohm 1% 0805	2	R102 R110
01-13000-73	RESISTOR 30 ohm 2W 5% MO	2	R103 R122
01-51530-87	RESISTOR 15.8 K 1% 0805	2	R107 R141
01-52630-85	RESISTOR 26.7 K 1% 0805	2	R108 R138
01-56830-85	RESISTOR 68.1 K 1% 0805	4	R11 R18 R205 R225
01-56820-85	RESISTOR 6.81 K 1% 0805	4	R111 R199 R201 R202
01-55618-85	RESISTOR 56.2 ohm 1% 0805	2	R112 R181
01-51420-85	RESISTOR 1.43 K 1% 0805	3	R118 R177 R183
01-51020-88	RESISTOR 1 K 1% 1206	2	R12 R219
01-57510-85	RESISTOR 750 ohm 1% 0805	1	R121
01-51620-85	RESISTOR 1.62 K 1% 0805	2	R124 R136
01-52020-85	RESISTOR 2 K 1% 0805	10	R126 R162 R167 R170 R171 R179 R185 R186 R190 R193
01-51240-85	RESISTOR 124 K 1% 0805	4	R13 R14 R15 R16
01-51210-85	RESISTOR 121 ohm 1% 0805	1	R134
01-53630-85	RESISTOR 36.5 K 1% 0805	1	R142
01-51430-85	RESISTOR 14 K 1% 0805	1	R143
01-53320-85	RESISTOR 3.32 K 1% 0805	3	R146 R147 R203
01-53910-85	RESISTOR 392 ohm 1% 0805	3	R153 R206 R207
01-53030-85	RESISTOR 30.1 K 1% 0805	3	R160 R163 R184
01-59320-85	RESISTOR 9.31 K 1% 0805	1	R161
01-57120-85	RESISTOR 7.15 K 1% 0805	4	R165 R166 R188 RF189
01-53520-85	RESISTOR 3.48 K 1% 0805	2	R168 R191
01-55001-85	RESISTOR 5.11 ohm 1% 0805	5	R169 R231 R232 R237 R238
01-53600-85	RESISTOR 36.5 ohm 1% 0805	2	R17 R224
01-51040-85	RESISTOR 100 K 1% 0805	3	R174 R221 R222
01-55130-85	RESISTOR 51.1 K 1% 0805	1	R180
01-58210-85	RESISTOR 825 ohm 1% 0805	1	R194
01-51730-85	RESISTOR 17.4 K 1% 0805	2	R195 R198
01-51030-85	RESISTOR 10 K 1% 0805	21	R2 R7 R19 R38 R41 R44 R45 R52 R54 R59 R60 R65 R90 R104 R156 R187 R196 R197 R210 R229 R230
01-55120-86	RESISTOR 5.11 K 1% 1206	2	R204 R25
01-11002-22	RESISTOR 1.1 ohm 1/2W 5%	2	R213 R214
01-52005-86	RESISTOR 2.2 ohm 1% 1206	2	R216
01-51010-85	RESISTOR 100 ohm 1% 0805	8	R24 R26 R61 R78 R211 R218 R220
01-10005-12	RESISTOR 0.51 ohm 1W MO	1	R27
01-51530-88	RESISTOR 15 K 1% 1206	5	R28 R29 R30 R87 R89
01-57520-85	RESISTOR 7.5 K 1% 0805	3	R31 R101 R106
01-52210-85	RESISTOR 221 ohm 1% 0805	1	R32
01-10001-73	RESISTOR 0.1 ohm 2W 5% MO	6	R33 R34 R35 R209 R234 R235
01-53020-86	RESISTOR 3.01 K 1% 0805	3	R39 R40 R125

Part No.	DESCRIPTION	Q'TY	REF. No.
01-52030-85	RESISTOR 20 K 1% 0805	20	R4 R36 R37 R48 R49 R56 R57 R70 R86 R130 R132 R135 R144 R149 R151 R158 R159 R173 R175 R228
01-51530-85	RESISTOR 15 K 1% 0805	3	R42 R148 R157
01-54720-85	RESISTOR 4.75 K 1% 0805	17	R43 R53 R74 R75 R77 R84 R85 R109 R114 R115 R116 R117 R127 R137 R139 R140 R192
01-51250-85	RESISTOR 1.21 M 1% 0805	4	R46 R71 R79 R80
01-57530-85	RESISTOR 75 K 1% 0805	5	R47 R50 R55 R58 R150
01-55001-87	RESISTOR 5.1 ohm 1% 1206	4	R5 R83 R91 R227
01-54710-85	RESISTOR 475 ohm 1% 0805	9	R51 R82 R105 R119 R120 R128 R133 R226 R233
01-51020-85	RESISTOR 1 K 1% 0805	12	R6 R20 R21 R22 R23 R76 R98 R123 R152 R178 R182 R217
01-54730-85	RESISTOR 47.5 K 1% 0805	3	R62 R164 R172
01-54930-85	RESISTOR 49.9 K 1% 0805	3	R63 R88 R97
01-59010-85	RESISTOR 909 ohm 1% 0805	1	R64
01-55101-85	RESISTOR 5.11 K 1% 0805	3	R66 R212 R3
01-51110-86	RESISTOR 110 ohm 1% 1206	1	R67
01-53910-86	RESISTOR 392 ohm 1% 1206	2	R68 R176
01-57320-85	RESISTOR 7.32 K 1% 0805	2	R69 R95
01-52005-86	RESISTOR 2.2 ohm 1% 1206	1	R72
01-51100-86	RESISTOR 1.1 ohm 1% 1206	1	R8
01-53340-86	RESISTOR 332 K 1% 0805	1	R81
01-52520-85	RESISTOR 2.55 K 1% 0805	1	R92
01-53920-85	RESISTOR 3.92 K 1% 0805	2	R93 R154
01-53310-85	RESISTOR 332 ohm 1% 0805	2	R96 R131
18-00863-00	SWITCH EG-2315A 2P3T	1	S1
18-00159-00	SW-4P2T JFPB-41S-A(N)	1	SW1
18-00892-00	SW-2P2T JFPB-21S-A(N)	2	SW2 SW3
13-11003-00	TH 100K NTC 6mm DIA	2	TH1 TH2
07-00072-85	IC TL072CDR 'TI' SOIC SMD	5	U1 U3 U4 U13 U24
07-00074-85	IC TL074CDR 'TI' SOIC SMD	3	U14 U16 U21
07-00431-85	IC TL431IDBZR 'TI' SOT-23-3	1	U15
07-90001-00	IC PIC18F1220-I/P ^	1	U19
07-00817-00	IC H11A817 'FSC'	7	U2 U9 U10 U12 U17 U18 U23
07-03525-85	IC SG3525AP SO16 SMD 'ST'	1	U20
07-05532-85	IC NJM5532M JRC SOIC SMD	5	U5 U6 U8 U11 U22
07-00393-85	IC LM393DT 'SGS' SMD	1	U7
13-00222-01	POT TRIM-6MM-VERT-470ohm ^	1	V1
13-00208-00	POT TRIM-6MM-VERT-220ohm ^	2	V2 VR5
15-20203-29	B20K*2 F09125G B20Kb L15KQA	2	VR1 VR2
15-25030-07	C50K*2 F09125G C50Kb L15KQA	1	VR3
15-40050-11	C50K*4 F09145G C50Kb L15KQA	2	VR4 VR6
20-00246-00	TRANSFORMER 800H-1000	1	X1