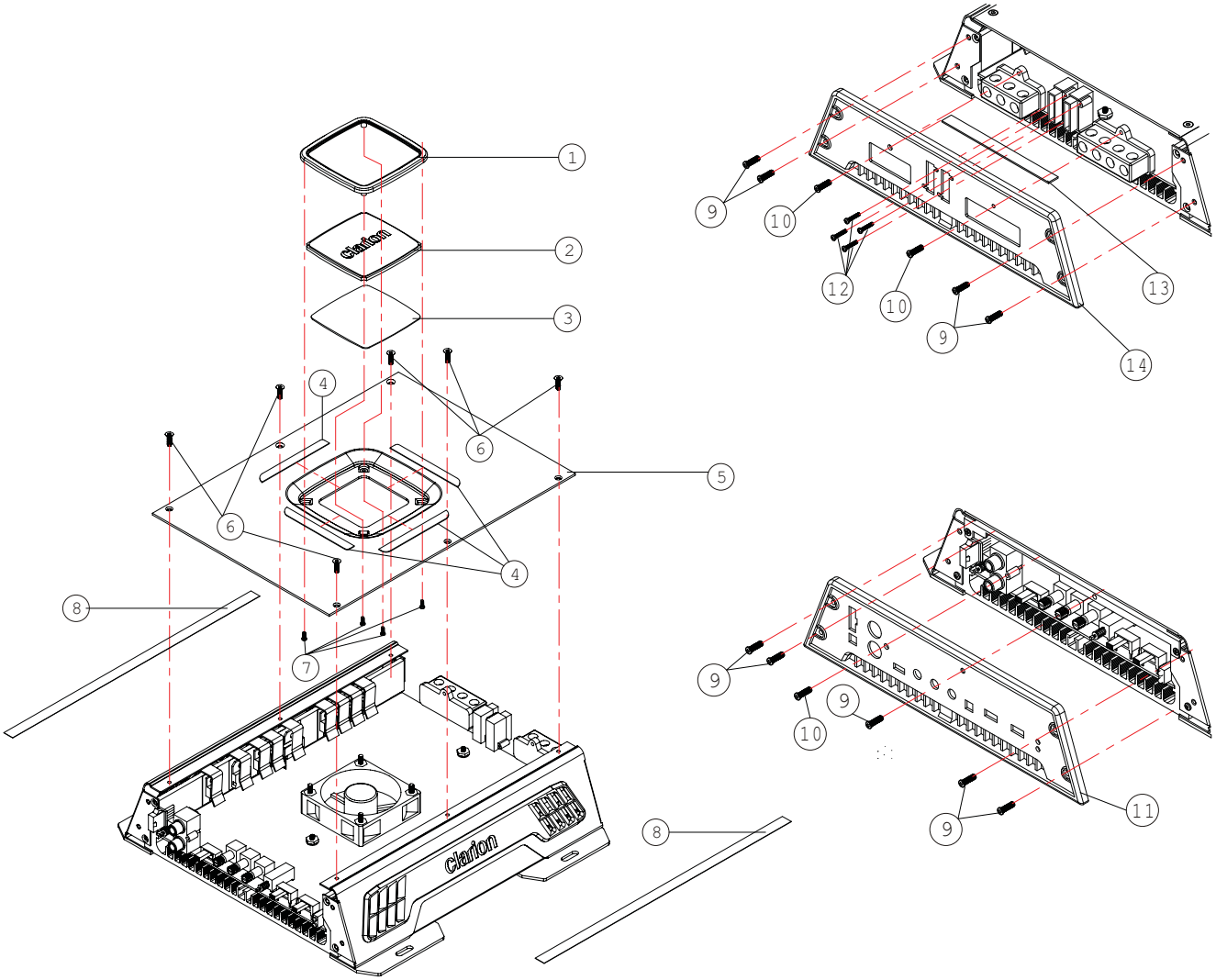
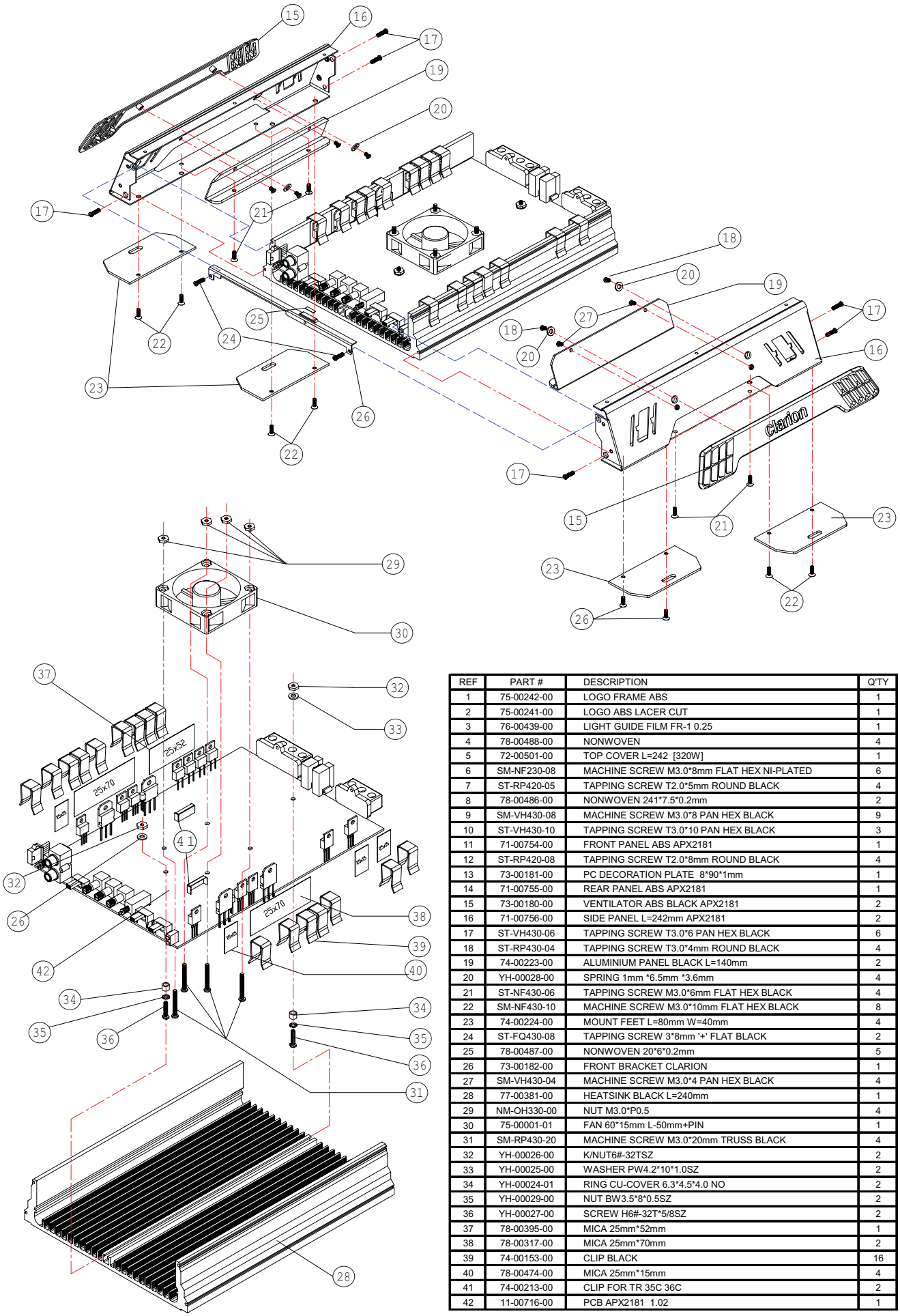
■TROUBLESHOOTING

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 #	DESCRIPTION	Q'TY
1	75-00242-00	LOGO FRAME ABS	1
2	75-00241-00	LOGO ABS LACER CUT	1
3	76-00439-00	LIGHT GUIDE FILM FR-1 0.25	1
4	78-00488-00	NONWOVEN	4
5	72-00501-00	TOP COVER L=242 [320W]	1
6	SM-NF230-08	MACHINE SCREW M3.0*8mm FLAT HEX NI-PLATED	6
7	ST-RP420-05	TAPPING SCREW T2.0*5mm ROUND BLACK	4
8	78-00486-00	NONWOVEN 241*7.5*0.2mm	2
9	SM-VH430-08	MACHINE SCREW M3.0*8 PAN HEX BLACK	9
10	ST-VH430-10	TAPPING SCREW T3.0*10 PAN HEX BLACK	3
11	71-00754-00	FRONT PANEL ABS APX2181	1
12	ST-RP420-08	TAPPING SCREW T2.0*8mm ROUND BLACK	4
13	73-00181-00	PC DECORATION PLATE 8*90*1mm	1
14	71-00755-00	REAR PANEL ABS APX2181	1
15	73-00180-00	VENTILATOR ABS BLACK APX2181	2
16	71-00756-00	SIDE PANEL L=242mm APX2181	2
17	ST-VH430-06	TAPPING SCREW T3.0*6 PAN HEX BLACK	6
18	ST-RP430-04	TAPPING SCREW T3.0*4mm ROUND BLACK	4
19	74-00223-00	ALUMINIUM PANEL BLACK L=140mm	2
20	YH-00028-00	SPRING 1mm *6.5mm *3.6mm	4
21	ST-NF430-06	TAPPING SCREW M3.0*6mm FLAT HEX BLACK	4
22	SM-NF430-10	MACHINE SCREW M3.0*10mm FLAT HEX BLACK	8
23	74-00224-00	MOUNT FEET L=80mm W=40mm	4
24	ST-FQ430-08	TAPPING SCREW 3*8mm '+' FLAT BLACK	2
25	78-00487-00	NONWOVEN 20*6*0.2mm	5
26	73-00182-00	FRONT BRACKET CLARION	1
27	SM-VH430-04	MACHINE SCREW M3.0*4 PAN HEX BLACK	4
28	77-00381-00	HEATSINK BLACK L=240mm	1
29	NM-OH330-00	NUT M3.0*P0.5	4
30	75-00001-01	FAN 60*15mm L-50mm+PIN	1
31	SM-RP430-20	MACHINE SCREW M3.0*20mm TRUSS BLACK	4
32	YH-00026-00	K/NUT6#-32TSZ	2
33	YH-00025-00	WASHER PW4.2*10*1.0SZ	2
34	YH-00024-01	RING CU-COVER 6.3*4.5*4.0 NO	2
35	YH-00029-00	NUT BW3.5*8*0.5SZ	2
36	YH-00027-00	SCREW H6#-32T*5/8SZ	2
37	78-00395-00	MICA 25mm*52mm	1
38	78-00317-00	MICA 25mm*70mm	2
39	74-00153-00	CLIP BLACK	16
40	78-00474-00	MICA 25mm*15mm	4
41	74-00213-00	CLIP FOR TR 35C 36C	2
42	11-00716-00	PCB APX2181 1.02	1

■ELECTRICAL PART LIST

PART #	DESCRIPTION	Q'TY	REF
01-10001-73	RESISTOR 0.1 ohm 2W 5% MO	4	R18 R19 R184 R185
01-11002-22	RESISTOR 1.1 ohm 1/2W 5%	2	R168 R169
01-13000-22	RESISTOR 30 ohm 1/2W MO	1	R81
01-50000-85	RESISTOR 0 ohm 0805	1	R127
01-51010-85	RESISTOR 100 ohm 1% 0805	3	R74 R75 R128
01-51020-85	RESISTOR 1 K 1% 0805	12	R14 R15 R16 R17 R27 R39 R50 R71 R72 R130 R162 R166
01-51030-85	RESISTOR 10 K 1% 0805	7	R83 R99 R112 R119 R120 R121 R122
01-51040-85	RESISTOR 100 K 1% 0805	1	R117
01-51110-86	RESISTOR 110 ohm 1% 1206	1	R61
01-51230-86	RESISTOR 12.1 K 1% 0805	4	R31 R35 R137 R141
01-51420-85	RESISTOR 1.43 K 1% 0805	2	R93 R98
01-51430-85	RESISTOR 14 K 1% 0805	2	R80 R84
01-51530-87	RESISTOR 15.8 K 1% 0805	1	R125
01-51830-86	RESISTOR 18.2 K 1% 1206	1	R133
01-52010-85	RESISTOR 200 ohm 1% 0805	1	R145
01-52020-85	RESISTOR 2 K 1% 0805	18	R5 R26 R29 R33 R95 R96 R101 R102 R103 R104 R105 R106 R129 R139 R143 R163 R164 R171
01-52030-85	RESISTOR 20 K 1% 0805	21	R37 R43 R46 R48 R57 R58 R62 R64 R67 R69 R76 R77 R85 R87 R89 R90 R92 R109 R165 R182 R183
01-52200-85	RESISTOR 22.1 ohm 1% 0805	17	R2 R6 R8 R28 R30 R32 R34 R82 R138 R140 R142 R144 R173 R175 R181 R186 R187
01-52320-85	RESISTOR 2.37 K 1% 0805	2	R52 R54
01-52430-85	RESISTOR 24 K 1% 0805	4	R36 R42 R45 R47
01-52520-84	RESISTOR 2.5 K 1% 0805	2	R7 R174
01-53320-85	RESISTOR 3.32 K 1% 0805	1	R114
01-53520-85	RESISTOR 3.48 K 1% 0805	2	R94 R97
01-53530-85	RESISTOR 35.7 K 1% 0805	4	R60 R65 R79 R88
01-53630-85	RESISTOR 36.5 K 1% 0805	2	R59 R78
01-53910-85	RESISTOR 392 ohm 1% 0805	1	R160
01-53910-86	RESISTOR 392 ohm 1% 1206	2	R53 R116
01-53930-85	RESISTOR 39.2 K 1% 0805	1	R151
01-54710-85	RESISTOR 475 ohm 1% 0805	7	R3 R4 R118 R170 R172 R179 R180
01-54710-86	RESISTOR 475 ohm 1% 1206	1	R73
01-54720-85	RESISTOR 4.75 K 1% 0805	19	R40 R51 R107 R108 R110 R111 R123 R124 R126 R132 R135 R136 R146 R147 R148 R150 R157 R158 R159
01-54730-85	RESISTOR 47.5 K 1% 0805	3	R100 R113 R115
01-55001-85	RESISTOR 5.11 ohm 1% 0805	1	R177
01-55001-87	RESISTOR 5.1 ohm 1% 1206	6	R24 R25 R41 R44 R66 R68
01-55101-85	RESISTOR 5.11 K 1% 0805	1	R70
01-55310-85	RESISTOR 536 ohm 1% 0805	2	R55 R56
01-55618-85	RESISTOR 56.2 ohm 1% 0805	5	R20 R23 R91 R152 R155
01-55930-85	RESISTOR 59 K 1% 0805	4	R9 R10 R11 R12
01-56800-85	RESISTOR 681 ohm 1% 0805	5	R21 R22 R153 R154 R156
01-56820-85	RESISTOR 6.81 K 1% 0805	2	R1 R176
01-57530-85	RESISTOR 75 K 1% 0805	2	R63 R86
01-57820-87	RESISTOR 7.87 K 1% 1206	2	R134 R149
01-58220-85	RESISTOR 8.25 K 1% 0805	1	R131
01-59010-85	RESISTOR 909 ohm 1% 0805	2	R13 R167
01-59020-85	RESISTOR 9.09 K 1% 0805	2	R38 R49
01-59320-85	RESISTOR 9.31 K 1% 0805	1	R178
02-21000-41	E/C 1uf 50V 5*11	5	C13 C14 C31 C32 C34
02-21001-41	E/C 10uf 50V 5*11	3	C8 C9 C93
02-21003-30	E/C 1000uf 25V 105° 10*20	2	C82 C95
02-21803-51	E/C 1800uf 35V LOW ESR 18*25	2	C39 C48
02-22202-32	E/C 220uf 25V 8*11	1	C38
02-24700-41	E/C 4.7uf 25V 105度 6.3*11	1	C69
02-24701-31	E/C 47uf 25V 105° 6.3*11	5	C2 C15 C47 C76 C97
02-24702-31	E/C 470uf 25V LOW ESR 10*15	2	C16 C30
02-26803-21	E/C 6800uf 16V LOW ESR 18*30	2	C66 C79
04-20100-86	CERAMIC 10P/J 50V 0805	6	C19 C74 C20 C21 C26 C27
04-20270-85	CERAMIC 27P/J 50V 0805	1	C52
04-20680-85	CERAMIC 68P/J 50V 0805	8	C7 C22 C28 C56 C57 C63 C64 C89
04-21020-85	CERAMIC 102/K 50V 0805	2	C17 C70
04-21030-85	CERAMIC 103/K 50V 0805	2	C67 C72
04-21040-87	CERAMIC 104/Z 50V 0805	22	C1 C5 C10 C11 C18 C24 C25 C45 C46 C49 C55 C65 C68 C73 C75 C80 C81 C86 C88 C90 C94 C96
04-21500-85	CERAMIC 150P/J 50V 0805	4	C4 C6 C85 C87
04-21530-85	CERAMIC 153/K 50V 0805	1	C58
04-22720-85	CERAMIC 272/J 50V 0805	1	C92
04-22730-85	CERAMIC 273/K 50V 0805	2	C3 C91
04-23300-85	CERAMIC 330P/K 50V 0805	2	C23 C29

PART #	DESCRIPTION	Q'TY	REF
04-24720-86	CERAMIC 472/K 50V 0805	1	C43
04-24740-86	CERAMIC 474/Z 25V 0805	3	C44 C71 C77
06-00104-03	CAP MMYL ECQV 1H104JL 50V P=5	6	C12 C33 C35 C36 C37 C41
06-00393-00	CAP MMYL ECQB 1H393JF 50V P=5	2	C83 C84
06-00472-02	CAP MMYL ECQB 1H472JF 50V P=5	1	C42
06-00562-00	CAP MMYL ECQB 1H562JF 50V P=5	4	C50 C51 C61 C62
06-00563-00	CAP MMYL ECQB 1H563JF 50V P=5	4	C53 C54 C59 C60
07-00072-85	IC TL072CDR 'TI' SOIC SMD	2	U5 U8
07-00074-85	IC TL074CDR 'TI' SOIC SMD	4	U2 U3 U4 U7
07-00431-85	IC TL431IDBZR 'TI' SOT-23-3	1	U14
07-00716-00	IC PIC16F716-I/P ^	1	U6
07-00817-00	IC H11A817 'FSC'	3	U9 U11 U13
07-03525-85	IC SG3525AP SO16 SMD 'ST'	1	U15
07-05532-85	IC NJM5532M JRC SOIC SMD	2	U10 U12
07-L7815-00	REGULATOR L7815CV TO-220 'ST'	1	U16
07-L7915-00	REGULATOR L7915CV TO-220 'ST'	1	U1
08-00031-00	TRANSISTOR TIP31C 4A/100V 'ST'	2	Q2 Q31
08-00032-00	TRANSISTOR TIP32C 4A/100V 'ST'	2	Q3 Q30
08-00035-00	TRANSISTOR TIP35C 25A/100V 'ST'	2	Q1 Q32
08-00036-00	TRANSISTOR TIP36C 25A/100V 'ST'	2	Q5 Q28
08-10006-01	TRANS MPSA06 TO-92 'ON'	2	Q4 Q29
08-10006-85	TR MMBTA06LT1 SOT-23 'ON'	11	Q6 Q9 Q10 Q13 Q14 Q15 Q18 Q21 Q22 Q25 Q26
08-10056-85	TR MMBTA56LT1 SOT-23 'ON'	5	Q11 Q12 Q17 Q19 Q20
08-10647-01	TRANS 2SB647 1A TO-92	2	Q7 Q23
08-10667-01	TRANS 2SD667 1A TO-92	2	Q8 Q24
08-26715-00	TR MPS651G 'ON' 2N6715 TO-237	1	Q16
08-26726-00	TR MPS751G 'ON' 2N6726 TO-237	1	Q27
08-50N06-00	FET FQP50N06 TO-220AB 'FAIRCHILD'	2	M1 M2
09-00051-85	ZENER 5.1V DL-35 miniMELF	1	DZ2
09-00099-85	DIODE BAV99LT1G 70V SOT23 ^	2	D8 D11
09-04934-85	DL4934-MELF 1A 100V SMD	2	D9 D10
09-14001-85	DIODE 1N4001TB miniMELF SMD	2	D13 D14
09-14148-85	DIODE 1N4148-SOD80 miniMELF	8	D5 D6 D7 D12 D15 D16 D18 D19
09-15401-01	1N5402 3A/200V DC-201AD	1	D17
09-20060-85	ZENER 6V DL-35 miniMELF	1	DZ1
09-20100-85	ZENER 10V DL-35 miniMELF	1	DZ3
09-20510-85	ZENER 51V DL-35 miniMELF	2	DZ4 DZ5
09-40008-00	MUR820PBF / U08A20C 'MOSPEC'	4	D1 D2 D3 D4
13-00207-00	TRIM-6-VERT-500 500 ohm ^	2	VR1 VR5
13-00208-00	POT TRIM-6MM-VERT-220ohm ^	1	V1
13-11003-00	TH 100K NTC 6mm DIA	2	TH1 TH2
15-20203-29	B20K*2 F09125G B20Kb L15KQA	2	VR2 VR3
15-40050-11	C50K*4 F09145G C50Kb L15KQA	1	VR4
18-00159-00	SW-4P2T JFPB-41S-A(N)	2	S1 SW1
18-00863-00	SWITCH EG-2315A 2P3T	1	SW2
18-30001-01	SW SV65020F-0203-6H-01-FN	2	SW3 SW4
19-00302-03	LED BLUE 1L0345FB12E0CF001 ^	6	LED1 LED2 LED3 LED4 LED5 LED6
19-00335-00	LED 3mm RED 1L0341S11A0TE001	1	LED7
19-00338-00	LED 3mm BLUE 1L034FB12C0TE001	1	LED7
20-00128-00	INDUCTOR 1KW T157-52 CORE	1	L2
20-00184-00	OUTPUT COIL SE-1000-ZIB	2	L1 L3
20-00249-00	TRANSFORMER APX2180-2	1	X1
24-00316-00	LED HOLDER 3mm LED-306	1	LED7
30-00115-00	2P BASE XH 2.5 180°	1	J3
30-00289-00	5P BASE XH PH2.0 180°	1	J4
32-00655-02	TERMINAL BLOCK SL-KOR-3P	1	J5
32-00657-05	TERMINAL BLOCK SL-KOR-4P	1	J2
32-20223-05	JACK 2P WSP-202V-03	1	J1
34-00150-00	5P BASE H7755R-05 L-100mm	1	R+ R- L+ L- GND
76-00239-00	FUSE HOLDER JEF-703E	2	FH1 FH2
76-00392-00	FUSE ATC-20A 'UL' YELLOW	2	FH1 FH2
76-00407-00	TEST PIN JT-1P-CIW	4	TP1 TP2 TP3 TP4
78-00284-00	SILICONE TUBE 2mm*6mm	8	Q1 Q5 Q28 Q32
78-00323-00	SILICONE TUBE 1mm*10mm	4	Q4 Q29
78-00348-00	SILICONE TUBE 1mm*8mm	26	M1 M2 Q31 Q30 U16 D1 D2 D3 D4 Q3 Q2 U1 TH2
78-00479-00	SILICONE TUBE 1mm*22mm	12	LED1 LED2 LED3 LED4 LED5 LED6