

ASHDOWN ABM EVO3 PREAMP INSERTION PARTS LIST **MAIN PCB - APC056x1**

Version A – 28/08/06

Part Name	Description	Qty	Reference
BZX55C12	ZENER DIODE 12V	1	Z1
1N4002	DIODE	4	D13 D15 D17 D18
1N4007	DIODE	4	D1 D2 D3 D4
1N4148	DIODE	17	D5 D6 D7 D8 D9 D10 D11 D12 D14 D16 D19 D20 D21 D22 D23 D24 D25
OA9105	GEMANIUM DIODE	1	D26
R1/4W,100k	Metal Film	10	R14 R15 R33 R38 R44 R48 R67 R83 R101 R121
R1/4W,10k	Metal Film	30	R1 R7 R8 R11 R12 R22 R30 R49 R50 R55 R56 R65 R66 R73 R76 R77 R81 R84 R85 R94 R96 R104 R105 R107 R108 R110 R113 R115 R120 R124
R1/4W,15k	Metal Film	2	R9 R51
R1/4W,1K	Metal Film	8	R2 R5 R52 R79 R82 R92 R93 R111
R1/4W,1M	Metal Film	2	R90 R91
R1/4W,1k5	Metal Film	1	R35
R1/4W,220R	Metal Film	1	R54
R1/4W,220k	Metal Film	5	R36 R37 R42 R53 R114
R1/4W,22K	Metal Film	8	R63 R80 R86 R88 R106 R112 R119 R123
R1/4W,27K	Metal Film	2	R32 R97
R1/4W,2k2	Metal Film	1	R3
R1/4W,330K	Metal Film	2	R75 R78
R1/4W,33K	Metal Film	6	R21 R26 R28 R59 R89 R98
R1/4W,3M9	Metal Film	1	R6
R1/4W,3k3	Metal Film	1	R46
R1/4W,3k9		1	R13
R1/4W,470K	Metal Film	8	R18 R23 R31 R41 R47 R60 R64 R74
R1/4W,47k	Metal Film	30	R17 R19 R24 R25 R27 R29 R34 R39 R40 R43 R45 R58 R61 R62 R68

			R69 R70 R71 R72 R95 R99 R100 R103 R109 R116 R122 R125 R128 R129 R130
R1/4W,4k7	Metal Film	7	R4 R10 R16 R20 R102 R126 R127
R1/4W,560R	Metal Film	2	R117 R118
R1/4W,68K	Metal Film	1	R87
12R 1 Watt	Metal Film	1	R57
ZERO OHM LINK	ZERO OHM LINK	60	As silk screen
33pF 100v	Ceramic Cap 5mm Pitch	6	C8 C17 C42 C47 C69 C75
100pF 100v	Ceramic Cap 5mm Pitch	4	C5 C20 C60 C76
330pF 100v	Ceramic Cap 5mm Pitch	1	C63
1nF 100v	Box Poli 5mm Pitch	1	C57
4n7 100v	Box Poli 5mm Pitch	2	C14 C55
10nF 100v	Box Poli 5mm Pitch	4	C6 C15 C18 C64
22nF 100v	Box Poli 5mm Pitch	4	C25 C29 C48 C65
68nF 100v	Box Poli 5mm Pitch	3	C53 C54 C59
100nF 100v	Box Poli 5mm Pitch	17	C1 C11 C12 C16 C24 C27 C28 C33 C34 C37 C41 C44 C50 C58 C67 C68 C71
1uF 35v Tantalum	Tant Cap 5mm Pitch	4	C4 C38 C39 C43
1uF 35v	Radial Electrolytic	11	C10 C21 C23 C40 C46 C51 C52 C56 C61 C62 C74
4.7uF 35v	Radial Electrolytic	2	C7 C9
10uF 35v	Radial Electrolytic	8	C13 C32 C45 C49 C66 C70 C72 C73
22uF 25v	Radial Electrolytic	1	C26
100uF 16v	Radial Electrolytic	2	C2 C3
1000uF 16v	Radial Electrolytic	2	C30 C31
1000uF 35v	Radial Electrolytic	2	C35 C36
22uF 450v	Radial Electrolytic	2	C19 C22
4013B	IC Dual D Flip Flop	1	IC9
CA3080	IC Transconductance Amp	1	IC5
LM833	IC Dual Op-Amp	2	IC1 IC13
TL072	IC Dual Op-Amp	8	IC2 IC6 IC7 IC8 IC10

			IC11 IC12 IC14
BC549C	Transistor	1	TR9
2N3906	Transistor	1	TR16
ZTX614	Transistor	4	TR2 TR8 TR12 TR15
J112	Transistor	2	TR1 TR14
J175	Transistor	10	TR3 TR4 TR5 TR6 TR7 TR10 TR11 TR13 TR17 TR18 TR19
5MM BLUE LED	Leads bent 6mm from body of LED. Fitting height = 6mm above PCB.	1	LED1
Regulator 7915		1	IC3
Regulator 7815		1	IC4
PCB Terminal Block 2 way 0.2"		1	PL1
PCB Terminal Block 3 way 0.2"		1	PL4
Pin Header 2 way 0.1"		1	PL3
Pin Header 2 way 0.1"	Fit only for RACK PRE-AMP version	1	PL6 - Fit only for RACK PRE-AMP version
Pin Header 3 way 0.1"		1	PL7
Pin Header 5 way 0.1"		1	PL2
Pin Header 10 way 0.1"		1	PL5
B9A Valve Base	Ceramic to fit PCB	1	V1
Jack socket Mono Gold	Cliff S4-BNB-PCC-GOLD	3	SK1 SK3 SK4
PCB Fuse clip	Suitable for 20mm Fuse	6	FS1 FS2 FS3
T250mA 20mm Fuse		1	FS1
T1A 20mm Fuse		2	FS2 FS3
Dual B50k 16mm Pot	Alpha RV16A01-20-20K-B54 (JIS:B)	1	RV2
Single B50k 16mm Pot	Alpha RV16A-20-20K-B54 (JIS:B)	4	RV1 RV3 RV4 RV5 RV1 & RV5 on flying leads.
Push switch latching	FO2UEE	4	SW3 SW4 SW5 SW6
Piggy Back switch Latching	Double Switch – same as on APC010	2	SW1SW2 SW7SW8
XLR Socket Male	Must be all plastic body type	1	SK2 - Mounted to chassis, hardwired to PCB
ECC83 VALVE		1	V1

APC056 PCB		1	
ITEMS BELOW FOR	INTERCONNECTIONS		
IDC 2 Way SOCKET		1	APC056 PL3 to Meter Bulb 2 X 7/.02 wires 210mm long
IDC 10 Way SOCKET x 2 Use 7/.02 wires for pins 4,5,6,7,8.9 & 10	Pins 1 & 2 to be screened. Screen connection to pin 3.	2	APC056 PL2 to APC058 PL2 300mm long
Wires 7/.02 100mm long	Stripped and tinned both ends	9	for connection between PCB to RV1, RV5 & SK2
IDC 5 Way SOCKET	USED ON 'RACK PRE-AMP' ONLY	1	connected to PL6/PL7 headers for linking to the Crossover PCB on the RACK PREAMP

N.B. – For ease of assembly and inspection: All IC's face the same direction, all Diodes face the same direction, all capacitor +ve face the same direction.

ISSUE 1A - R28 = 33K (was 47K) R45 = 47K (was 16R) R57 = 12R (was 33R)
R58 = 47K (was 22K) R62 = 47K (was 100K) R85 = 10K (was 47K)
R112 = 22K (was 100K) R119 = 22K (was 47K) c75 = 100K (was 47K)
R126 = 4K7 (was 10K) R127 = 4K7 (was 1K) C48 = 22n (was 100p)
C75 = 33p (was 100p) ADDED R129 = 47K, R130 = 47K, TR18 = J175.
Heat sink, screw, nut & washer no longer required for IC4