

ASM-2  
An enhanced ASM-1

CAPACITORS	QTY	X	X	ADSR1	ADSR2	GLIDE	LFO1	LFO2	PSU	RING	S&H	NOISE	VCA1	VCA2	VCF1	VCF2	VCO1	VCO2	INVERTER	OCTAVE	SPLITTER	POLYDAC	MAINS	ASM-2
10pF 2.5% Polystyrene	4												1	1	2									
22pF 2.5%V Polystyrene	2																1	1						
33pF 5% Ceramic, Low K, NPO	8																1	1				6		
100pF 2.5% Polystyrene	2																1	1						
330pF 2.5% Polystyrene	2														2									
2200pF 2.5% Polystyrene	2																1	1						
1nF 50V Polyester	1															1								
2n2 50V Polyester	1										1													
5n6 50V Polyester	1											1												
8n2F 50V Polyester	2											2												
10nF 50V Polyester	9			2	2												1					4		
68nF 50V Polyester	4															4								
100nF 50V Polyester	14											2											12	
100nF Decoupling Capacitor	70			2	2	2	2	2	4	2	2		2	2	4	2	4	4				30	4	
100nF X7R 0805	2																			2				
120nF 50V Polyester	2									2														
470nF 50V Polyester	1									1														
680nF 50V Polyester	5										1					2	1	1						
1000nF 50V Polyester	4					1	1	1			1													
1uF 35V Tantalum	4								4															
2u2 63V Electrolytic	1											1												
4u7 35V Tantalum	3			1	1							1												
10uF 35V Tantalum	1															1								
10uF 63V Electrolytic	2											2												
22uF 25V Electrolytic	4																					4		
100uF 25V Electrolytic	1									1														
220uF 25V Electrolytic	1															1								
470uF 35V Electrolytic	2								2															
4700uF 35V Electrolytic - Snap-fit	2																						2	

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SEMICONDUCTORS	QTY	X	X	ADSR1	ADSR2	GLIDE	LFO1	LFO2	PSU	RING	S&H	NOISE	VCA1	VCA2	VCF1	VCF2	VCO1	VCO2	INVERTER	OCTAVE	SPLITTER	POLYDAC	MAINS	ASM-2	
1N4004 200V 1A Diode	3								2														1		
1N4148 Signal Diode	30			3	3		3	3			3		2	2		2	4	4					1		
LM329 6V9 Precision Reference Diode	4								2							1							1		
CA3080 - Transconductance Opamp	4												1	1	2										
MAT02 - Dual Matched NPN Transistors	2																1	1							
J108 JFET	3										1						1	1							
OA95 Germanium Diode	4																2	2							
7815 +15V 1A Regulator	1								1																
7915 -15V 1A Regulator	1								1																
CA3046 5 NPN Transistors	2															2									
CA3140 Opamp	6										1				3		1	1							
CD4002 - CMOS Logic	2			1	1																				
CD40106 - Hex Schmitt Trigger	1										1														
CD4053 - Triple 2-channel Multiplexer	2			1	1																				
LF412 Dual Bi-FET Opamp	7															2							5		
LM311 Comparator	2																1	1							
LM317LZ Adjustable Voltage Regulator	1								1																
LM337LZ Adjustable Voltage Regulator	1								1																
LM358 - Dual Opamp	4			2	2																				
LM1458 Dual Opamp	1											1													
MC1496 - Balanced Modulator/Demodulator	1																								
TL081 JFET Opamp	5						1	1			1						1	1							
TL082 Dual JFET Opamp	7			1	1	1							1	1	1	1									
TL084 Quad JFET Opamp	7						1	1			1					1	1	1	1						
TL074 Quad JFET Opamp	6																1	1					4		
TL082 SMD SO8	2																				2				
2N3904 NPN Transistor	15										1	1				1	1	1					10		
2N3906 PNP Transistor	3														2								1		
400V 6A Bridge	1																							1	
BC549C NPN Transistor	6															6									
Single bead inductor	2																						2		
BAT42 Schottky diode	1																						1		
6N138 - Opto-coupler	1																						1		
78L05 5V 100mA Regulator	1																						1		
AD712 - Dual FET Opamp	1																						1		
AD8300 - 12-bit Serial A/D Converter	1																						1		
ATMEGA16-16PI	1																						1		
CD4067 - Analog Multiplexer/Demultiplexer	1																						1		
16MHz Crystal Oscillator Module	1																						1		
4-way DIP Switch	1																						1		
BCD Rotary PCB Switch	1																						1		

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RESISTORS	QTY	X	X	ADSR1	ADSR2	GLIDE	LFO1	LFO2	PSU	RING	S&H	NOISE	VCA1	VCA2	VCF1	VCF2	VCO1	VCO2	INVERTER	OCTAVE	SPLITTER	POLYDAC	MAINS	ASM-2
10R 0.5W 1% Metal Film	3			1	1																	1		
22R 0.5W 1% Metal Film	4											2			2									
33R 0.5W 1% Metal Film	1															1								
47R 0.5W 1% Metal Film	3						1	1							1									
56R 0.5W 1% Metal Film	1																					1		
75R 0.5W 1% Metal Film	15																					15		
100R 0.5W 1% Metal Film	2																					2		
150R 0.5W 1% Metal Film	4															4								
200R 0.5W 1% Metal Film	1															1								
220R 0.5W 1% Metal Film	10												2	2	2							4		
270R 0.5W 1% Metal Film	2								2															
330R 0.5W 1% Metal Film	2					1											1							
390R 0.5W 1% Metal Film	2															1	1							
470R 0.5W 1% Metal Film	4						1	1				2												
680R 0.5W 1% Metal Film	3															1	1	1						
820R 0.5W 1% Metal Film	2															1	1	1						
1K 0.5W 1% Metal Film	41			1	1		1	1		1	5	3	1	1	4	7	4	4				7		
1K2 0.5W 1% Metal Film	4								2	2														
1K5 0.5W 1% Metal Film	14			1	1		2	2	2	2						1	1	1				1		
1K8 0.5W 1% Metal Film	1															1								
2K 0.5W 1% Metal Film	1														1									
2K2 0.5W 1% Metal Film	8										2	1				3	1	1						
2K4 0.5W 1% Metal Film	1															1								
2K7 0.5W 1% Metal Film	6									4		2												
3K0 0.5W 1% Metal Film	6						1	1									2	2						
3K3 0.5W 1% Metal Film	13											1					1	1				10		
3K9 0.5W 1% Metal Film	2																1	1						
4K7 0.5W 1% Metal Film	9										1											8		
5K6 0.5W 1% Metal Film	2																1	1						
6K8 0.5W 1% Metal Film	5									3						2								
10K 0.5W 1% Metal Film	64			1	1		1	1			1				3	4	7	7				38		
10K 1% 0805	24																			24				
11K 0.5W 1% Metal Film	1																					1		
11K5 0.5W 1% Metal Film	1																					1		
12K 0.5W 1% Metal Film	3									2	1													
15K 0.5W 1% Metal Film	11											1			1		3	3				1		
18K 0.5W 1% Metal Film	3														2	1								
20K 0.5W 1% Metal Film	3														1		1	1						
22K 0.5W 1% Metal Film	5						1	1				2										1		
27K 0.5W 1% Metal Film	1														1									
33K 0.5W 1% Metal Film	2														1							1		
39K 0.5W 1% Metal Film	1															1								
47K 0.5W 1% Metal Film	14			1	1		1	1			1				2	1	1	1				4		
51K 0.5W 1% Metal Film	1														1									



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CONNECTORS	QTY	X	X	ADSR1	ADSR2	GLIDE	LFO1	LFO2	PSU	RING	S&H	NOISE	VCA1	VCA2	VCF1	VCF2	VCO1	VCO2	INVERTER	OCTAVE	SPLITTER	POLYDAC	MAINS	ASM-2	
2-way Housing	11			1	1	1	1	1							1		1	1					3		
2-way Straight, Locking Header	11			1	1	1	1	1							1		1	1					3		
3-way Housing	37			5	5	3	4	4		1	1	3	1	1		2	1	1					5		
3-way Straight, Locking Header	37			5	5	3	4	4		1	1	3	1	1		2	1	1					5		
4-way Housing	12										1		1	1	3		1	1					4		
4-way Straight, Locking Header	12										1		1	1	3		1	1					4		
5-way Housing	1																						1		
5-way Straight, Locking Header	1																						1		
6-way Housing	4										1						1	1					1		
6-way Straight, Locking Header	4										1						1	1					1		
8-way Housing	1															1									
8-way Straight, Locking Header	1															1									
Crimp to suit 0.1" MTA-xx Series																									
Crimp to suit 0.156" MTA-xx Series	4																						4		
4-way 0.156" Housing	1																						1		
4-way 0.156" Straight, Locking Header	1																						1		
4-Way 5.08mm Screw Terminal	3								1															2	
1x2 Pin Header	5																1	1		2			1		
Jumper Shunt	5																1	1		2			1		
1x4 Pin Header	5								3											2					
10-way IDC Box Header	1																						1		
10-way IDC Socket Housing	1																						1		

IC SOCKETS	QTY	X	X	ADSR1	ADSR2	GLIDE	LFO1	LFO2	PSU	RING	S&H	NOISE	VCA1	VCA2	VCF1	VCF2	VCO1	VCO2	INVERTER	OCTAVE	SPLITTER	POLYDAC	MAINS	ASM-2	
8-pin IC Socket 0.3"	41			3	3	1	1	1		1	1	2	2	2	6	2	4	4					8		
14-pin IC Socket 0.3"	19			1	1		1	1		1	2				1	3	2	2					4		
16-pin IC Socket 0.3"	2			1	1																				
24-pin IC Socket 0.6"	1																						1		
40-pin IC Socket 0.6"	1																						1		

PANEL COMPONENTS	QTY	X	X	ADSR1	ADSR2	GLIDE	LFO1	LFO2	PSU	RING	S&H	NOISE	VCA1	VCA2	VCF1	VCF2	VCO1	VCO2	INVERTER	OCTAVE	SPLITTER	POLYDAC	MAINS	ASM-2	
ASM2-Wizard Front Panel	1																								1
5-PIN DIN Panel Round Socket	2																						2		
6.35mm Stereo Switched Socket, Panel	3												1										2		
6.35mm Mono Switched Socket, Panel	120			3	3	2	3	3		3	6	4	6	6	14	7	13	13	2		14		18		
5mm Recessed Chrome Red LED	2								2																
5mm Recessed Chrome Green LED	9			1	1		1	1			1												4		
5mm Recessed Chrome Yellow LED	1																						1		
27mm MOTM/Moog-style Knob	52			0	0	0	0	0		0	0	0	6	6	12	7	9	9	1	2			0		
DPDT Toggle Switch (ON-ON)	2					1			1																
DPDT Toggle Switch (ON-OFF-ON)	1																1								
SPDT Toggle Switch (ON-ON)	5											1					1	1					2		
SPDT Toggle Switch (ON-OFF-ON)	1																						1		
SPDT Toggle Switch (ON-Mom)	1																						1		
SPDT Pushbutton Switch (ON-MOM)	2			1	1																				
1P12W Rotary Switch	5															1		1	1		2				
50K LIN(B) (16mm Alpha, 18T Spline)	2																1	1					2		
50K LOG(A) (16mm Alpha, 18T Spline)	1																1								
100K LIN(B) (16mm Alpha, 18T Spline)	58			1	1		2	2		2	1	2	6	6	11	7	8	8	1						
100K LOG(A) (16mm Alpha, 18T Spline)	2						1	1																	
1M LOG(A) (16mm Alpha, 18T Spline)	1					1																			
1M LIN(B) (16mm Alpha, 18T Spline)	7			3	3						1														

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WIRING	QTY	X	X	ADSR1	ADSR2	GLIDE	LFO1	LFO2	PSU	RING	S&H	NOISE	VCA1	VCA2	VCF1	VCF2	VCO1	VCO2	INVERTER	OCTAVE	SPLITTER	POLYDAC	MAINS	ASM-2	
Equipment Wire 7/0.16 Black (Unit=1cm)	10000								800													50	75		
Equipment Wire 7/0.16 Red (Unit=1cm)	10000								193		49												24		
Equipment Wire 7/0.16 Brown (Unit=1cm)	10000					40					92		32	32									201		
Equipment Wire 7/0.16 Orange (Unit=1cm)	10000					120				72	80		95	97									210		
Equipment Wire 7/0.16 Yellow (Unit=1cm)	10000								179																
Equipment Wire 7/0.16 Green (Unit=1cm)	1500					40					105												164		
Equipment Wire 7/0.16 Blue (Unit=1cm)	1500					120				59	79		75	77									197		
Equipment Wire 7/0.16 White (Unit=1cm)	1000					120				77	74		89	91									307		
Equipment Wire 7/0.16 Purple (Unit=1cm)	1000																				66				
Equipment Wire 7/0.16 Grey (Unit=1cm)	1000																								
Equipment Wire 7/0.16 Pink (Unit=1cm)	1000																								
Single-core Screened Audio wire (Unit=1cm)	1200										42														
Mains-rated Earth Wire (Unit=1cm)	20																							12	
Mains-rated Power Wire - Blue (Unit=1cm)	20																							5	
Mains-rated Power Wire - Brown (Unit=1cm)	20																							7	

  

PCB	QTY	X	X	ADSR1	ADSR2	GLIDE	LFO1	LFO2	PSU	RING	S&H	NOISE	VCA1	VCA2	VCF1	VCF2	VCO1	VCO2	INVERTER	OCTAVE	SPLITTER	POLYDAC	MAINS	ASM-2	
PolyDAC PCB	1																						1		
RAW-DC PCB	1																							1	
ASM-2 PCB	1																								1
Octave Switcher PCB	2																			2					

  

HARDWARE	QTY	X	X	ADSR1	ADSR2	GLIDE	LFO1	LFO2	PSU	RING	S&H	NOISE	VCA1	VCA2	VCF1	VCF2	VCO1	VCO2	INVERTER	OCTAVE	SPLITTER	POLYDAC	MAINS	ASM-2	
Power Module Bracket	1																							1	
M4 Self-Clinch Nut	2																							2	
IEC Mains Socket/Switch/Fuse -Panel	1																							1	
QC - Shrouded RED 6.3mm Receptacle	6																							6	
QC - M4 non-insulated ring	1																							1	
M4 x 15mm screw	1																							1	
M4 Nut	2																							2	
M4 Shakeproof washer	1																							1	
Isolate Warning Label, 38mm x 19mm	1																							1	
Cabinet Foot	4																								4
M4 x 40mm screw	9																							4	5
M4 Self Locking Nut	9																							4	5
M3 x 30mm Slotted Pan Head	9																						4	5	
M3 LockNut	9																						4	5	
M4 SS Washer, 9mm OD	13																						4	4	5
M3 x 8mm Untapped Nylon Spacer	4																							4	
M3 x 6mm Untapped Nylon Spacer	9																						4	5	
M4 SS Washer, 16mm OD	9																							4	5
M4 x 6mm Untapped Nylon Spacer	5																								5
M4 Extra Large 6mm Spacer	4																							4	
M4 x 25mm Socket Cap Screw	2																							2	
#6 x 15mm Round Head Woodscrew	18																								18
M3x8mm SS PH Bolt	6										2													4	
M3 SS Nut	2										2														
TO-220 Heatsink Type 6021	2										2														
Crimp Tool - 0.1"	1																								1