





Wire A' to B', all other letters as in the Bill B (rev3) files.
 Polarized parts have "+" leads down or to the left

Parts list for Mike I mod SAD1024 ADA flanger rev3 layout1.1.

Any part number refers to the Bill B layout and rev3 files.

Components changed as per the Mike I SAD1024 mod are reported separately and have not been given a new parts number.

Omitted components are simply omitted from the list. I removed the option B AC/DC converter operation because the standard rectifier arrangement will provide for both AC or DC operation.

Pads have been altered to accomodate standard capacitor spacing, correct errors and give more room for some traces.

There are notes wherever I have done something.

Resistors

R1	1k	
R2	30k	
R3	4.7k	
R4	30k	
R5	1M	
R6	47r	
R7	68k	
R8	68k	
R9	20k	
R10	47k	
R11	47k	
R12	68k	
R13	10k (this one might need to be replaced by a 4k7 to be able to get the bias range right for the SAD1024)	
R27	100r	
R28	1.3M	
R29	68k	
R30	100k	
R31	100k	
R32	22k Changed value according to: http://www.diystompboxes.com/smfforum/index.php?topic=33422.0	
R33	22k See above	
R34	10k This is a weird one. In the Mike I parts layout, it is probably mistaken for a 1M and to be replaced by a jumper. I'm going to try with the original value 10k. You decide for yourself.	
R35	1M	
R36	10k	
R37	10k	
R38	30k	
R39	30k	
R40	47k	
R41	68k	
R43	4.7k	
R44	5k	
R48	100k	
R49	51k	
R50	100r	
R51	22k	
R52	100k	
R53	510k	Additional resistors from the Mike I SAD1024 mod layout.
R54	1M	
R55	47r	Signal to SAD1024 (was R14) 1k
R56	68k	Feedback on IC2C (amp for signal from SAD1024, was R26) 43k
R57	82k	Output from IC2B, output from effect (output amp, was R45) 100r
R58	100k	Wet input mix on IC2B (was R42) 68k
R59	75k	Output from effect to ground (was R46) 100k
R60	1k	SAD1024 Clock (between 4007 and 4047) 2M2
R61	100k	SAD1024 Clock (between 4007 and 4047) 47r
R62	47r	V+ to SAD1024 pins 6,7,11 10r
R63	20k	Clock Null output to ground 4k7
R64	20k	Clock Null output 39k
R65	82k	Pin 9 to pins 6,7 and 11 on SAD1024 1k0
R66	51k	Pin 9 of SAD1024 to ground 13k9
R67	10k	Pin 5 IC4 to ground at C22 via this, see note 4. Added by me. 100k

Capacitors

C1	.1uf Film 7,5mm (0,3in)
C2	4.7uf 25v Tant 5mm (0,2in)
C3	.01uf Film 7,5mm (0,3in)
C4	68 uf 15v Tant 5mm (0,2in)
C5	4.7uf 25v Alum 2,5mm (0,1in)
C6	2.2uf 25v Bipolar 5mm (0,2in)
C7	.0047uf Film 5mm (0,2in)
C8	100pf 5% SM
C9	.1uf Film 5mm (0,2in)
C15	4.7uf 25v Alum 5mm (0,2in)
C16	.1uf Film 7,5mm (0,3in)
C17	2.2uf 25v Bipolar 5mm (0,2in)
C18	.0012uf Film 7,5mm (0,3in)
C19	510pf 5% SM
C20	.01uf Film 7,5mm (0,3in)
C22	2.2u15v Alum 2,5mm (0,1in)
C23	.01uf Film 7,5mm (0,3in)
C24	33uf 10v Tant 2,5mm (0,1in) el. 5mm (0,2in)
C25	33uf 10v Tant 2,5mm (0,1in) el. 5mm (0,2in)
C26	33uf 25v Alum 5mm (0,2in)
C27	4.7uf 25v Alum 5mm (0,2in)
C28	.0047uf Ceram/Film 2,5 mm (0,1in); is 0,1 uf in the Irwin/Giles schematic.

Additional capacitors from the Mike I SAD1024 mod layout.

Main PSU filter (was C31, 470uf 35v Alum)	1000 uf at least 35V Alum 5mm (0,2in)
Coupling from SAD1024 (via Clock Null Trim, was C13, 0,1 uf). Not present in layout, added by me. Value based on the Irwin/Giles schematic.	0.22 uf Film 5mm (0,2in)
Feedback on IC2C (amp for signal from SAD1024, was C14)	100pf 5% SM
Coupling output from IC2B, output from effect (was C21)	1u 35v Tant 5mm (0,2in)
Pin 1-2 on SAD1024 as noted in the Mike I SAD1024 parts layout. Pads added.	0,01 uf Film 2,5 mm (0,1in)
Filter from 7815	0,22 uf Film 25v 7,5mm (0,3in)
Pin 1-3 on 4047 Clock	47 pf Ceram 5mm (0,2in)
Decoupling V+ to ground for logic	0,22 (Irwin parts) or 0,022 (Irwin/Giles schematic) uf Film? 7,5mm (0,3in)
Decoupling SAD1024 pin 6,7,11 to ground	0,22 (Irwin parts) or 1 (Irwin/Giles schematic) uf Film? 5mm (0,2in)
Decoupling SAD1024 pin 9 to ground	0,22 (Irwin parts) or 1 (Irwin/Giles schematic) uf Film? 5mm (0,2in)

Pots And Trimmers

T1	20k	P1	10kB
5x10mm (0,2x0,4in)		P2	10kB
T2	20k	P3	10kB
5x10mm (0,2x0,4in)		P4	50kB
T3	20k	P5	500kC
5x10mm (0,2x0,4in)			
T4	20k		
5x10mm (0,2x0,4in)			
T5	100k		
5x10mm (0,2x0,4in)			

Additional trimmer from the Mike I SAD1024 mod layout.

Clock Null Trim 1k
5x5mm (0,2x0,2in)

Semiconductors

D1 1N914
D2 1N914
D3 1N914
D4 1N914
D5 1N914
D6 1N914
D7 Your favorite rectifier diode.
D8 Your favorite rectifier diode.
D9 Your favorite rectifier diode.
D10 Your favorite rectifier diode.

For IC's see: <http://www.diystompboxes.com/smfforum/index.php?topic=5168.0> and
<http://www.diystompboxes.com/smfforum/index.php?topic=25681.0>

IC1 TL074 (RC3403A)
IC2 TL074 (4741CP)
IC3 LM324
IC4 MC1458P
Q1 2N4393 (LS4349), N-channel JFET.

Additional IC's from the Mike I SAD1024 mod layout.

7815 (was IC7)
4007
4047
4049
SAD1024

NOTES (as in the Bill B parts list, with my comments):

1. R47 not installed.
Pad removed

2. The left end of R61 is lifted and soldered to the left end of R55.
Added pads, mount R61 tilting downwards

3. The right end of J13 is soldered to the right end of R4.
Pad removed and added at R4.

4. On the trace side a 100k is connected from the right end of R61 to the negative of C22.
Pads added and removed, mount roughly where R61 was.