

TB-FX 1.1.1 BOM

The footprints for poly-box style caps can be used for MLCC style if you have them, may change sound slightly in overdrive circuit.

Blue parts on on upper "Control Board"

Standard 11mm clearance between the two boards, so just keep that in mind.

In the Mouser column, I've either placed a part number or search terms. Due to part shortages etc, the string that will find you suitable parts to choose from what is in stock etc.

Value	Count	Location	Mouser	Alternatives	Notes
Resistors					
5% Carbon 1/4W or better (can be 1%)					
100R	2	R33,R47	Search "CFR 100ohm 1/4w" etc		
220R	1	R44			
1K	7	R2,R3,R5,R14,R15,R34,R41			
2K2	2	R24,R25			
4K7	1	R42			
		R1,R4,R8,R11,R12,R16,R17,R18,R30,			
10K	14	R31,R32,R39,R46,R48			
15K	2	R10,R13			
47K	3	R6,R7,R43			
100K	7	R9,R19,R22,R29,R35,R37,R38			
150K	1	R23			
330K	2	R26,R27			
510K	1	R45			
680K	1	R28			
1M	2	R36,R40	R40 optional - jumper if too quiet		
1M5	2	R20,R21			
Capacitors					
MLCC					
47p	1	C16	mlcc leaded 47pf		2.5mm leg spacing
10n	1	C305			2.5mm leg spacing
100n	10	C3,C7,C12,C13,C14,C17,C27,C31,C303,C304			2.5mm leg spacing C3 & C31 have larger footprint, can use a polybox here (QYX style may not fit)
Polyester (QYX, Panasonic Red, PolyBox etc)					
1n	2	C5,C26	Nichicon QYX 1n 50v		5mm leg spacing
2.2n	3	C8,C9,C23			5mm leg spacing
10n	3	C6,C10,C18			5mm leg spacing
33n	1	C4			5mm leg spacing
47n	2	C24,C29			5mm leg spacing
1u	1	C11	80-R82DC4100Z360K		5mm leg spacing Polybox style - no more than 10mm in height
Electrolytic					
0.33u/25	1	C302			Low profile, but normal 11mm will fit laying flat
10u/16	5	C1,C15,C10,C25,C28			C10 printed twice, on control board its an electrolytic!
47u/25	3	C2,C300,C301			
1u/25 BP	1	C21	50NXA1MEFC5X11		BIPOLAR!
10u/25 BP	3	C19,C22,C32	ECE-A1EN100UI		BIPOLAR!
Tantalum					
220n	2	C20,C30	TAP224K035SR5		
Diodes					
1SS133	2	D1,D2	1SS133M ROG		Any small switching diode - used for OD feedback - 1SS133 are nice!
1N5817	2	D301,D302			

IC			
PT2399	1 IC1		Included in kit
78L05	1 IC2	L78L05ACZ-AP	Programmed version included in kit
LM358	3 IC3,IC4,IC5	926-LM358N/NOPB	
Transistors			
2SC828	1 Q1		HTF - Noise generator - any NPN, ECB really
2SC1815	4 Q2,Q3,Q4,Q5	2SC945P,2SC536	etc
Trimmer			
10K	1 VR1-NS-LVL	652-3362P-1-103LF	
Misc			
PWR	1		10pin euro power header or 2x5 pin header
PJ301M	6 U1-U6	Thonk etc	Thonkiconn
B10K	3 VR2,VR3,VR6	Thonk etc	9mm Alpha Potentiometer
B50K	1 VR4	Thonk etc	9mm Alpha Potentiometer
B100K	1 VR7	Thonk etc	9mm Alpha Potentiometer
A500K	1 VR5	Thonk etc	9mm Alpha Potentiometer
1x3	3 JP1,JP2,JP4		1x3 pin header male
2x3	1 JP5		2x3 pin header male
1x4	1 JP3		1x4 pin header male
1x3	3 JP1,JP2,JP4		1x3 pin header female
2x3	1 JP5		2x3 pin header female
1x4	1 JP3		1x4 pin header female
11mm	4 Standoff		
3mm	8 Screws		