## **Dazatronyx TPAH3MCTOP Bill of Materials**

Parts	Qty	Value	Markings / notes	
			Diodes (polarity sensitive)	
D5	1	1N5819 schottky	Alternative: 1N5818. Band side goes into the square pad.	
D1, D2, D3, D4	4	black glass	Alternative: 1N4148. Band side goes into the square pad. Triangle points to square pad.	
D6	1	1N4732	4.7V zener. Clear glass. Band side goes into the square pad.	
D7	1	LED	Short leg goes into the square pad. Insert underneath the board.	
R10, R21, R22	3	390Ω	Resistors (firm bend) & Inductor  ORG, WHT, BRN, GOLD	
R23	1	1K	BRN, BLK, RED, GOLD	
R4	1	2K7	RED, VIO, RED, GOLD	
		10K		
R6, R12, R19, R24	4	12K	BRN, BLK, ORG, GOLD BRN, RED, ORG, GOLD	
R11, R13, R18	3	20K		
R8	1		RED, BLK, ORG, GOLD	
R5	1	22K	RED, RED, ORG, GOLD	
R2	1	39K	ORG, WHT, ORG, GOLD	
R3, R14, R16, R20	4	100K	BRN, BLK, YLW, GOLD	
R7, R9, R15, R17	4	470K	YLW, VIO, YLW, GOLD	
R1	1	2M2	RED, RED, GRN, GOLD	
L1	1	6800µH	<b>BLU, GRY, RED, SILVER</b> Alternative: $22\Omega / 33\Omega$ resistor	
			Capacitors - Axial	
C10A, C10B, C11A,	6	1n / 0.001μ	1000 polystyrene	
C11B, C12A, C12B C8	1	10n / 0.01μ	10000 polystyrene	
C11	1	100n / 0.1μ	104 ceramic (yellow bead, firm bend)	
	•	100117 0.1μ	104 ocialillo (yellow bedd, illilli berld)	
			Capacitors - Radial	
C9	1	3n9 / 0.0039μ	392	
C6, C7	2	47n / 0.047μ	473	
C1, C2, C3, C4, C5, C13	6	100n / 0.1μ	104	
C15	1	220μ	Electrolytic (Polarity sensitive: short leg with band goes into the square pad)	
			Transistors	
Q1, Q2, Q3, Q4	4	BC547C	(flat side of the transistor aligns with the part label)	
n			Idente DOD until all materations atoms are timbable accomplished in the ample come	
MIDS		50KB	Ider to PCB until all potentiometers are tightly assembled in the enclosure)	
	1		16mm, linear	
VOLUME	1	100KA	16mm, log	
TONE, SUSTAIN	2	100KB	16mm, linear	
			Additional parts checklist	
	1	unpopulated PCB		
	1	1590BBS or 1590B	BB2 enclosure + screws	
	1	3PDT footswitch (la	atching)	
	1	2.1mm DC socket (	(must be plastic cased type, not metal)	
	1		audio socket 1/4" + flat washer + nut	
	1	·	audio socket 1/4" + flat washer + nut	
	2		ers for audio sockets	
	4	knobs		
	2	potentiometer plast	tic caps (optional)	
	1	9V battery connect	• • • •	
	1	•		
	1	•		
		25mm wire (footsw		
		, -		
		60mm wire (negative solder (lead-free)	/e) Further notes	

# Further notes

- Polarity sensitive devices must be installed oriented in the correct direction. See all notes on this. This includes all diodes, transistors, and the electrolytic capacitor.
- Be careful to trim all wires near potentiometers close to the board, so as to avoid short circuits between the board and the pots. Check there is enough clearance before assembling.
- Avoid soldering the potentiometers, LED, and footswitch, until all of the hardware is mounted tightly inside the enclosure in final locations. This will prevent stress on the hardware and the supporting pads.
- The BC547 transistor uses a reversed pinout to the more-common 2N5088 style. If substituting the transistors, check if you need to flip the orientation.

# Debugging

I will do my best to answer any technical questions about building the circuit, even small ones. Unfortunately, however, I may not always have the resources to *remotely* help you to debug any circuits which are not working correctly, as this will almost always be a soldering or assembly fault. General debugging support is best found online through DIY building groups. Unsuccessful builds may be posted back to me for debugging and fixing for an additional fee.

# Feedback

Any feedback or suggestions are always welcomed and may help contribute to future updates. My technical knowledge is limited, and I am happy to crowd-source as much free information as I can. Please consider that these documents may be revised at any time, so it is better to share a link, rather than the actual file.

# Licensing

Circuit board layout and all documentation are copyright © Darron Thornbury. The board may be used for private or commercial use.