Dazatronyx FFS Bill of Materials

Parts	Qty	Value	Markings / notes
			Diodes (polarity sensitive)
D1	**1**	**1N5819 schottky**	Alternative: 1N5818. Band side goes into the square pad.
D2	**1**	**LED**	Short leg goes into the square pad. Insert underneath the board.
			Resistors
R5	**1**	**27Ω**	***RED*, *VIO*, *BLK*, *GOLD***
R2	**1**	**330Ω**	***ORG*, *ORG*, *BRN*, *GOLD***
R6	**1**	**1K**	***BRN*, *BLK*, *RED*, *GOLD***
R3	**1**	**2K7**	***RED*, *VIO*, *RED*, *GOLD***
R1	**1**	**39K**	***ORG*, *WHT*, *ORG*, *GOLD***
R4	**1**	**120K**	***BRN*, *RED*, *YLW*, *GOLD***
R7	**1**	**2M2**	***RED*, *RED*, *GRN*, *GOLD***
			Inductor (green)
L1	**1**	**6800µH**	***BLU*, *GRY*, *RED*, *SILVER***
			Capacitors
C2	**1**	**27p**	*27 ceramic*
C5	**1**	**100n / 0.1µ**	104 ceramic axial (firm bend legs for axial)
C4	**1**	**10n / 0.01µ**	*10000 polystyrene*
C1	**1**	**1µ**	*105*, CBB polypropylene or polyester film MKT, 5/5.08mm pitch
C3	**1**	**15µ**	Polarised electrolytic. Negative wire must go into the square pad.
C6	**1**	**220µ**	Polarised electrolytic. Negative wire must go into the square pad.
			Transistors
Q1	**1**	**BC33725**	NPN silicon
Q2	**1**	**BC547C**	NPN silicon
			Potentiometers
BIAS	**1**	**10K**	3362P trimpot. See suggested setting:
FUZZ	**1**	**1KC**	16mm, reverse log
VOLUME	**1**	**500KC**	16mm, reverse log
			Additional parts checklist
	1	Printed circuit board (PCB)	
	1	1590BS / 1590N1 / 125B enclosure + lid + screws	
	1	3PDT footswitch (latching) + metal washer	
	1	2.1mm DC socket (must be plastic cased type, not metal)	
	1	mono open frame audio socket 1/4” + flat washer + nut	
	1	stereo open frame audio socket 1/4” + flat washer + nut	
	2	serrated star washers for audio sockets	
	2	knobs	
	2	extra potentiometer nuts (optional)	
	1	9V battery connector (optional)	
	1	25mm wire (footswitch OUT)	
	1	54mm wire (negative 1590BS kit)	
		solder (lead-free)	

Further notes

- This layout was designed for the small Hammond 1590BS enclosure, with two Switchcraft #11 (or similar) open frame mono sockets. The circuit board will fit snug, with barely any gap between the enclosure wall. A compatible drill layout is also available for 1590N1 / 125B enclosures, which have more space. Most home printers *do not* print accurately to scale. Test all printed drill layouts against a ruler, and adjust the scale as required.

- 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.

- To make the knobs sit lower on the pot shafts, an additional nut is suggested to be fitted to the base of each potentiometer to space it further away from the enclosure.

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.

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