

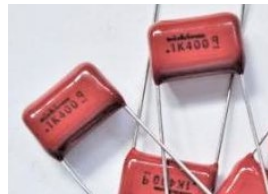
**Big Muff with red, black, or blue ink
Marveltone Distortion Sustainer**



±5% 誤差

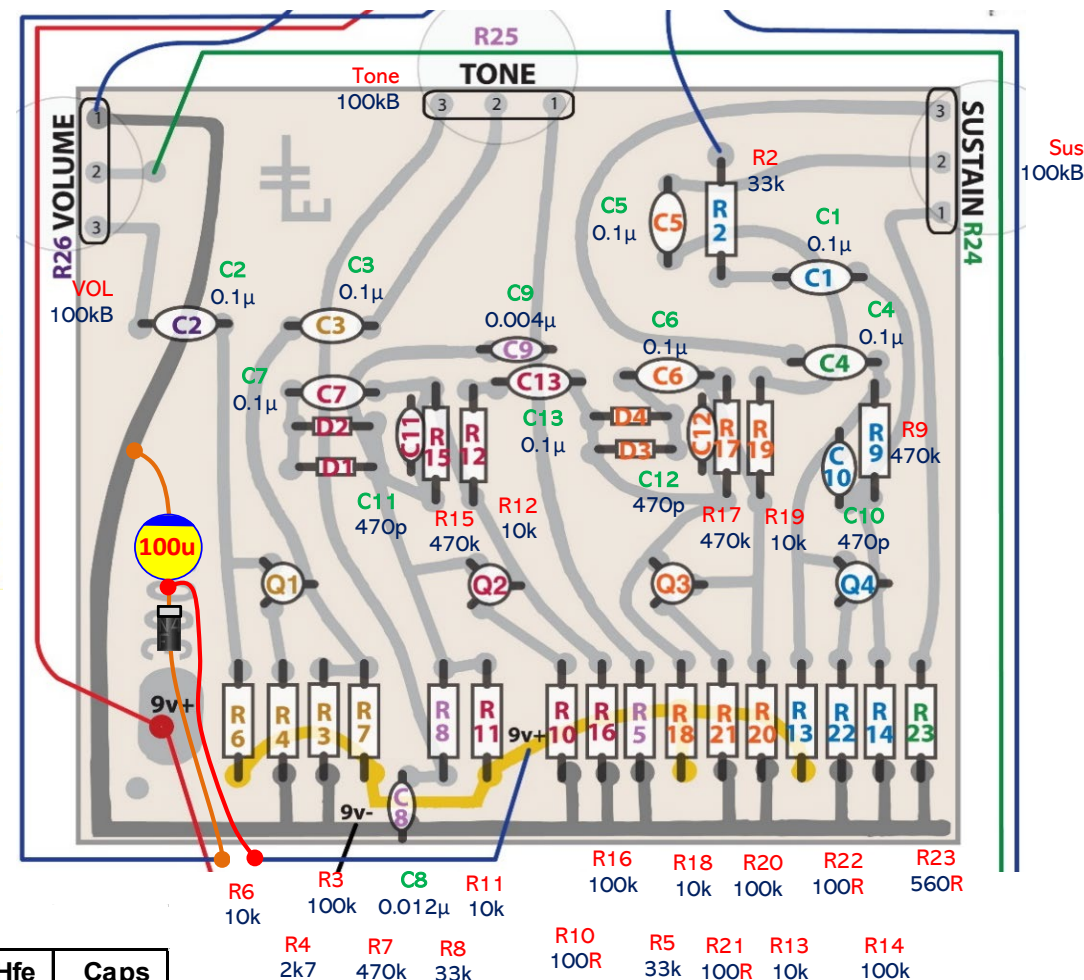
Circuit traced from 3 identical examples.
Silicon transistors • Silicon diodes
All 0.1 μ F capacitors polyester film.
All other capacitors are ceramic.
All carbon composition resistors.
Linear taper potentiometers.

NICHICON CAPACITOR 0.1UF 400V FILM
POLYESTER RADIAL

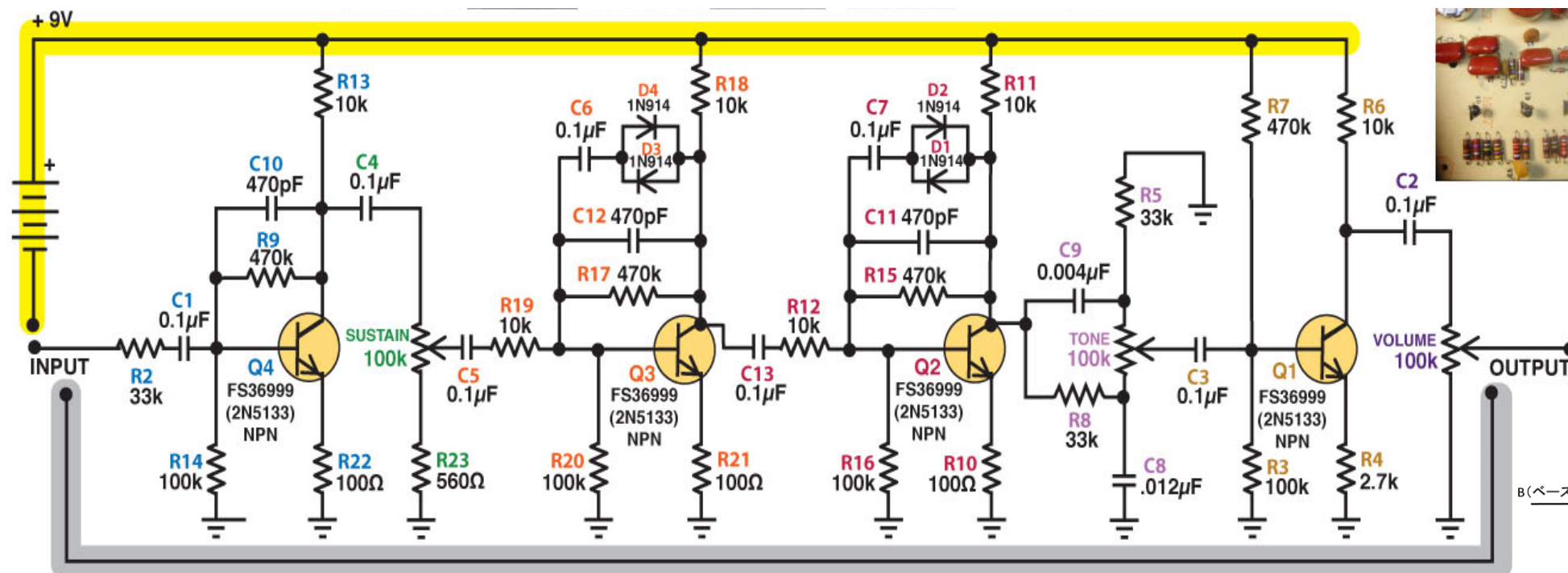


original

↓ Type	Mat	Struct	Pc	Vcb	Vce	Veb	Ic	Tj	Ft	Cc	Hfe	Caps
2N5133	Si	NPN	0.2	20	18	3	0.05	125	40	8	60	TO106

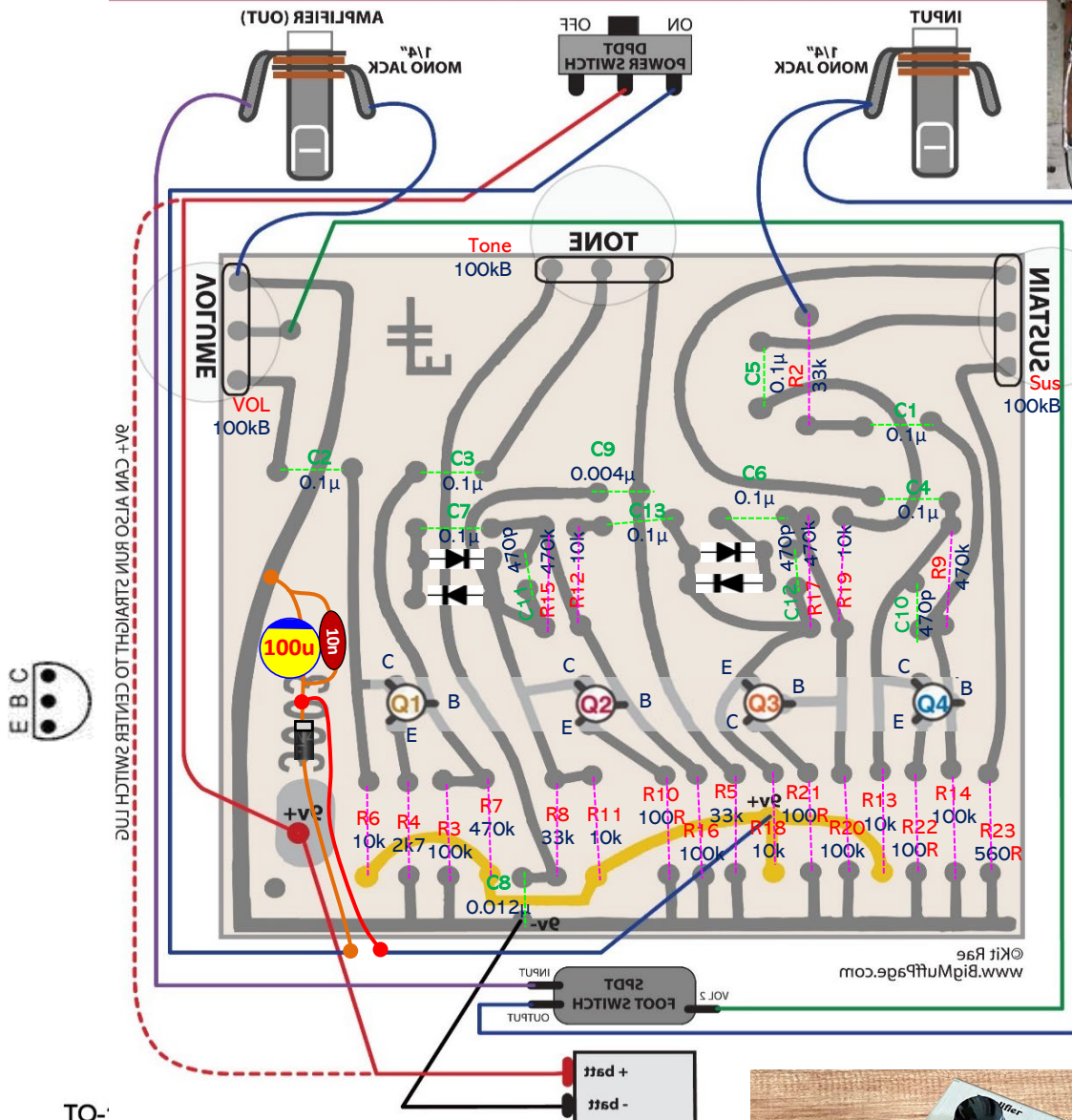


R1	欠番	100R	3
R2	33k	560R	1
R3	100k	2k7	1
R4	2k7	10k	6
R5	33k	33k	3
R6	10k	100k	4
R7	470k	470k	4
R8	33k		22
R9	470k		
R10	100R		
R11	10k		
R12	10k		
R13	10k		
R14	100k		
R15	470k		
R16	100k		
R17	470k		
R18	10k		
R19	10k		
R20	100k		
R21	100R		
R22	100R		
R23	560R		

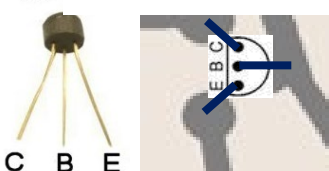


C1	0.1u	470p	3
C2	0.1u	4n	1
C3	0.1u	12n	1
C4	0.1u	0.1u	8
C5	0.1u		13
C6	0.1u	1n914	4
C7	0.1u	2N5133	4
C8	12n		
C9	4n	100u	1
C10	470p	1N5817	1
C11	470p		
C12	470p	100kB	3
C13	0.1u		

VERSION 2 BIG MUFF PI WIRING DIAGRAM (LOOKING FROM TOP)



TO-



- LOW NOISE - $NF = 1.5 \text{ dB (TYP) @ 1.0 kHz}$
- HIGH GAIN - $h_{FE} = 60 \text{ (MIN), 220 (TYP) @ 1.0 mA}$
 $h_{FE} = 50 \text{ (TYP) @ } 50 \mu A$
- BREAKDOWN VOLTAGE - $V_{CEO} = 18 \text{ VOLTS (MIN)}$



original

↓ Type	Mat	Struct	Pc	Vcb	Vce	Veb	Ic	Tj	Ft	Cc	Hfe	Caps
2N5133	Si	NPN	0.2	20	18	3	0.05	125	40	8	60	TO106

参考

↓ Type	Mat	Struct	Pc	Vcb	Vce	Veb	Ic	Tj	Ft	Cc	Hfe	Caps
2N5172	Si	NPN	0.2	25	25	5	0.1	175	200	10	100	TO981
2N4970	Si	NPN	0.2	50	30	5	0.5	125	200	12	100	TO106
2N4410	Si	NPN	0.31	120	80	5	0.25	135	60	12	60	TO92

VERSION 2 BIG MUFF PI WIRING DIAGRAM (LOOKING FROM TOP)

3.4V+ CAN VT50 RUN 21WRIGHT TO CENTER SWITCHING

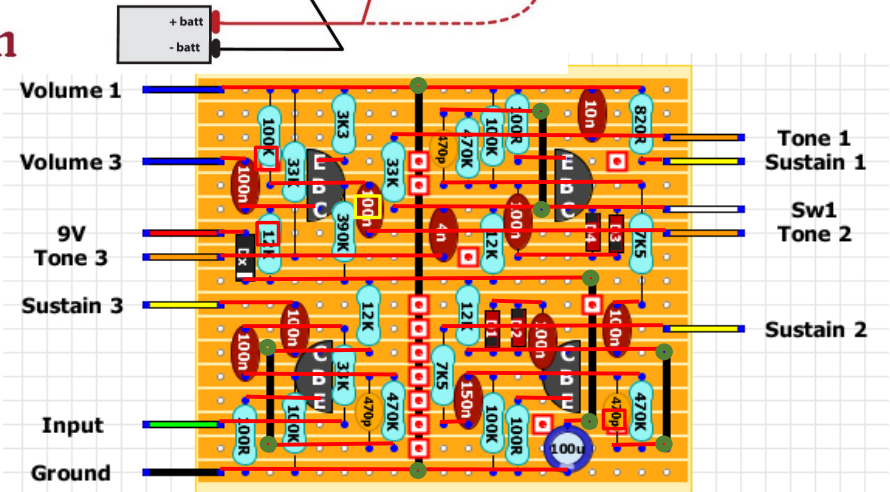
© Kit Range
www.kitrange.com



20+ CAN ALSO RUN STRAIGHT TO CENTER SWITCH FUG



- **LOW NOISE** - $N_F = 1.5 \text{ dB (TYP) @ } 1.0 \text{ kHz}$
- **HIGH GAIN** - $h_{FE} = 60 \text{ (MIN), } 220 \text{ (TYP) @ } 1.0 \text{ mA}$
 $h_{FE} = 50 \text{ (TYP) @ } 50 \mu\text{A}$
- **BREAKDOWN VOLTAGE** - $V_{CEO} = 18 \text{ VOLTS (MIN)}$

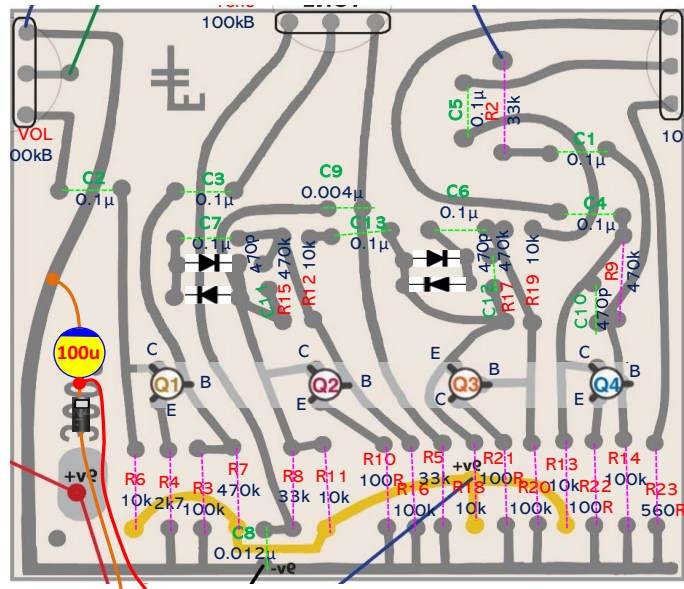


Version 2 BIG MUFF

1973 #3

Big Muff with red, back, or blue ink

Marveltone Distortion Sustainer



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