

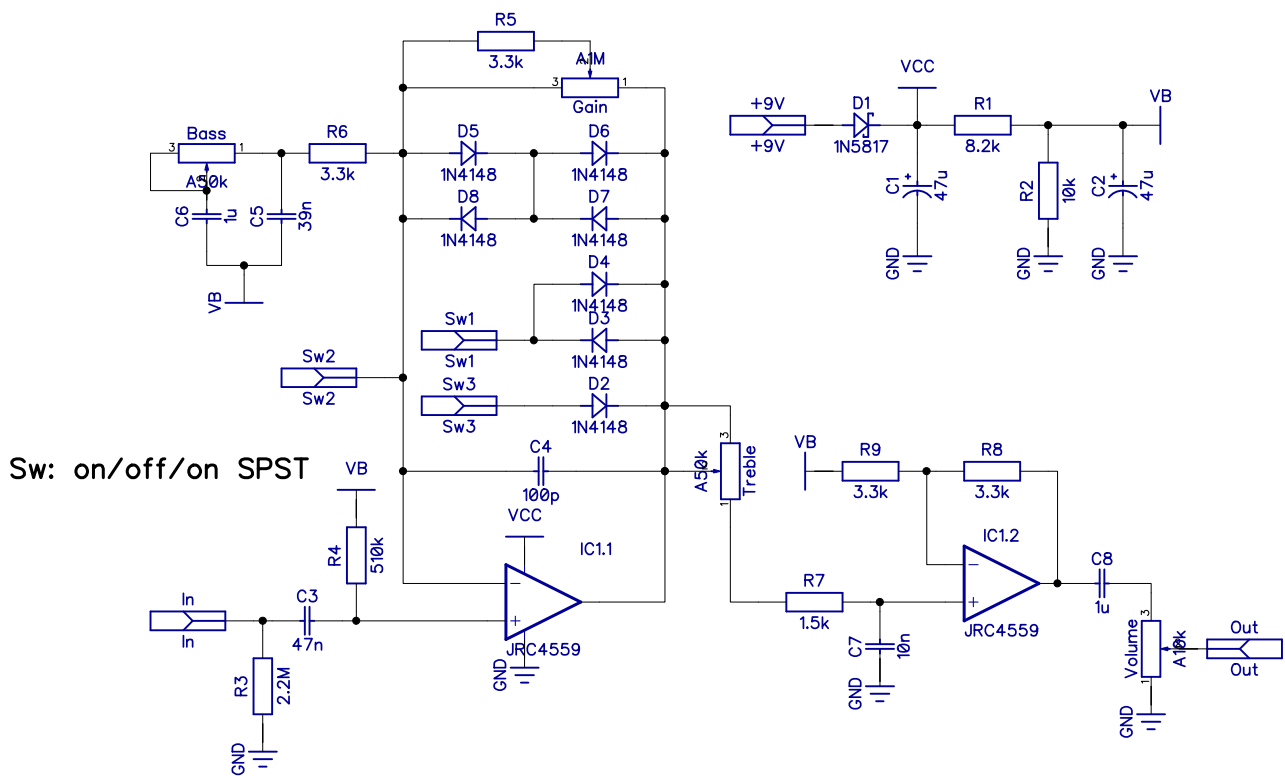


Jimmy

Based on Paul Cochrane Timmy Overdrive
PCB artwork ©2016 drdFX
Release date: 2016. 05. 27.

Jimmy is a direct clone of Paul Cochrane's Timmy Overdrive. The only difference I have added was to reverse the Bass and Tone pots as in the original they worked counterclockwise. Also include here a PCB layout with the original pot directions.

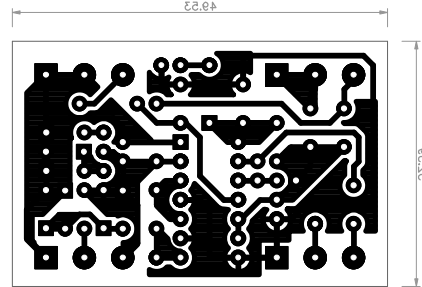
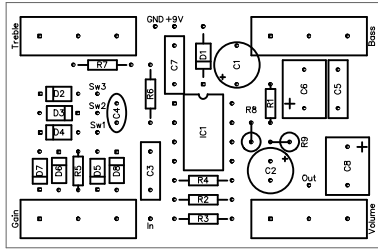
SCHEMATIC



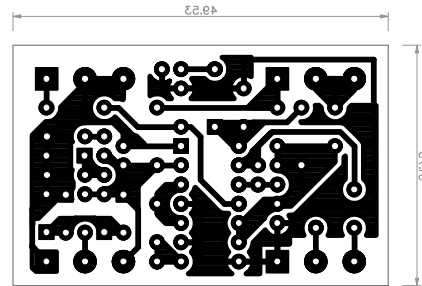
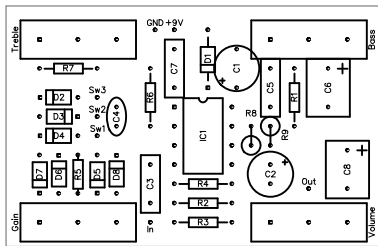
LAYOUT

Due to the size the PCB can only be built into a 1590B or a 125B box.

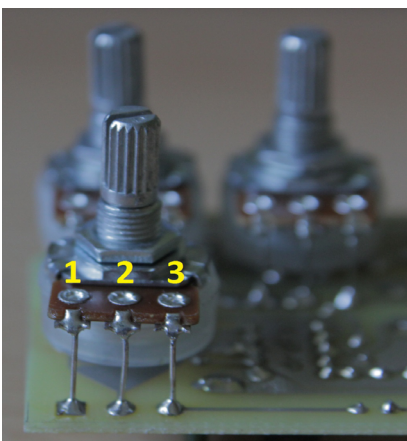
With reversed pot directions



With original pot directions



NOTES



The pots are board mounted to the bottom of the board. The square pads mark the lug 1, for the numbering of the lugs see the picture.

The clipping diode switch is not board mounted, but connects with wires. If you plan to put it in the middle as in the Drilling Templates section, then carefully measure the length of the pot wires to have enough space to prevent contacting the switch lugs with the solder joints at the bottom of the board.

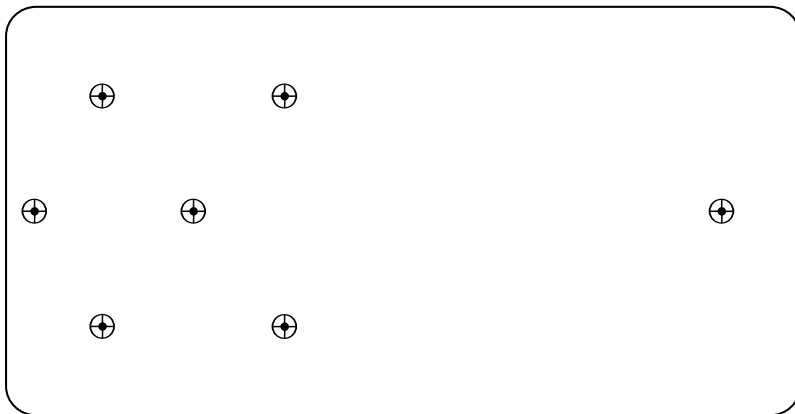
I would suggest to use some insulating tape or material on the back of the board too beneath the switch (I usually use a small strip of double-sided foam tape and leave the film on one side). Also using a submini switch is recommended.

Because you need longer pot lugs you will most probably need smaller elco capacitors if you plan to build the effect in a 1590B box. The standard 11mm high ones will be too tall, use the smaller 4-6mm pieces.

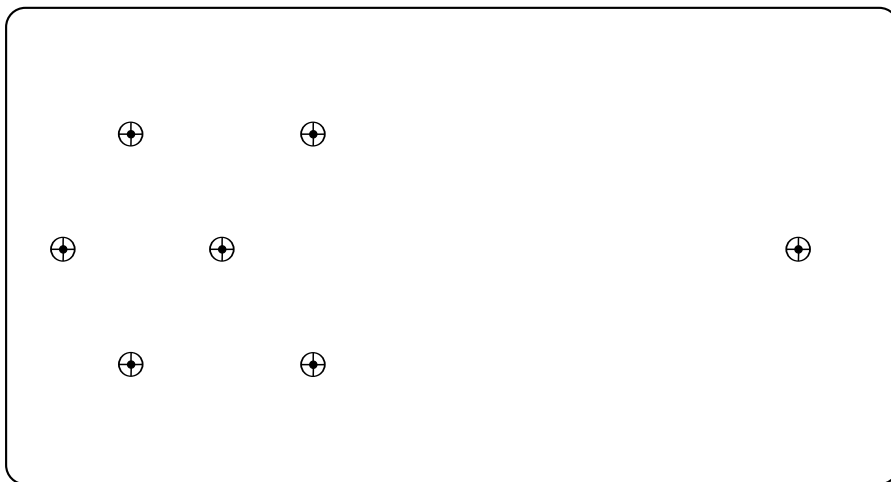
BOM							
Resistors		Capacitors		Semiconductors		Others	
R1	8.2k	C1	47u	D1	1N5817	Bass	A50k
R2	10k	C2	47u	D2	1N4148	Gain	A1M
R3	2.2M	C3	47n	D3	1N4148	Treble	A50k
R4	510k	C4	100p	D4	1N4148	Volume	A10k
R5	3.3k	C5	39n	D5	1N4148	Sw1	SPST on/off/on
R6	3.3k	C6	1u	D6	1N4148		
R7	1.5k	C7	10n	D7	1N4148		
R8	3.3k	C8	1u	D8	1N4148		
R9	3.3k			IC1	JRC4559		

DRILLING TEMPLATES

This effect fits into a 1590B or 125B box. Here are the drilling templates for them:



1590B



125B