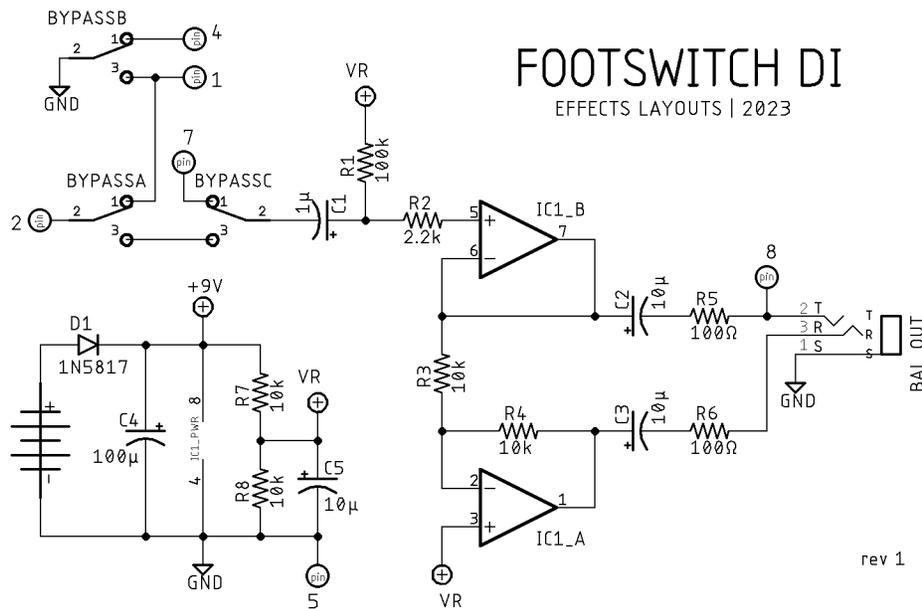


FOOTSWITCH DI

DESCRIPTION

The FOOTSWITCH DI can be added onto any effect where you might want a balanced output. It is an active direct injection circuit for balanced output using either a TRS or XLR jack.

SCHEMATIC



BOM

Resistors

R1	100k
R2	2.2k
R3	10k
R4	10k
R5	100Ω
R6	100Ω
R7	10k
R8	10k

Capacitors

C1	1μ
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C2	10μ
C3	10μ
C4	100μ
C5	10μ

Semiconductor

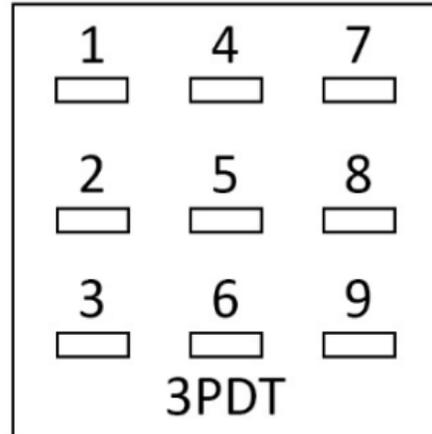
D1	1N5817
IC1	TL072

Electromechanical

BYPASS	3PDT footswitch
OUT	TRS/XLR jack

Notes

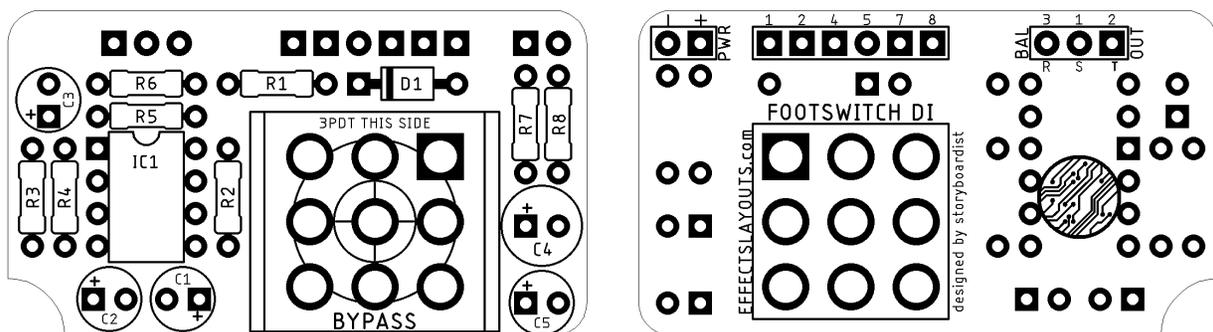
Connect the labeled pads to the corresponding pads on the main PCB. If the markings don't match or you're using a board from a different manufacturer, the pad numbers correspond to lug numbers of the 3PDT footswitch. Pad/lug 1 connects to the effect input, 2 connects to the input jack, 4 connects to the LED, 5 connects to ground, 7 connects to the effect output, 8 connects to unbalanced output jack, with pads/lugs 3 and 9 connected for bypass. (Lugs 1 and 6 are also connected to ground the input of the effect when the footswitch is in bypass position.)



SHOPPING LIST

Part	Type (suggested)	Quantity
100Ω	¼ watt metal or carbon film	2
2.2k	¼ watt metal or carbon film	1
10k	¼ watt metal or carbon film	4
100k	¼ watt metal or carbon film	1
1μ	Electrolytic (25v+)	1
10μ	Electrolytic (25v+)	3
100μ	Electrolytic (25v+)	1
1N5817	Schottky rectifier diode	1
TL072	Dual opamp	1
Bypass	3PDT footswitch	1
Out	TRS/XLR jack	1

LAYOUT



Note: C1 is notated backwards on the silk screen. Rotate 180° if using a polarized cap.