

Possible input configurations

RIGHT IN

1xTRS stereo jack
TIP= Right
RING=LEFT
SLEEVE = GND

2 x mono TS jack
separate L & R
signals

1 x mono TS jack
signal goes into
Left and Right
inputs

LEFT IN

MONO IN

Possible output configurations

RIGHT OUT

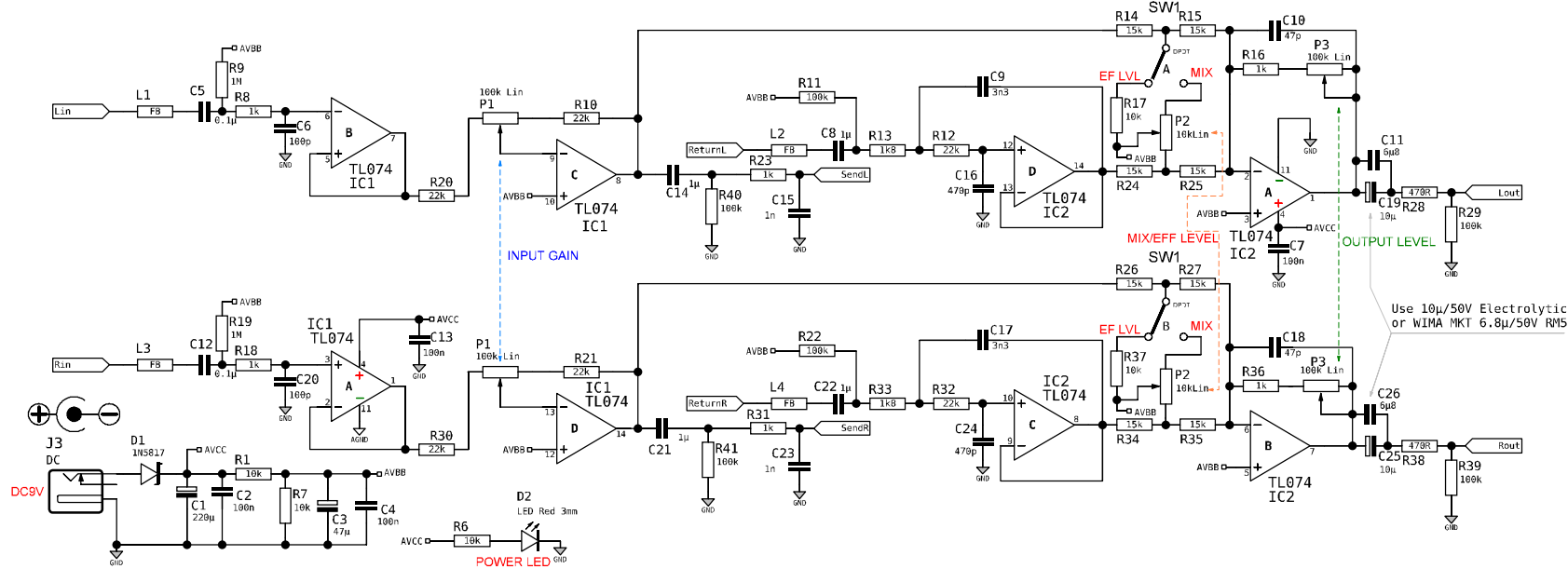
2 x mono TS jack
separate L & R
signals

1 x mono TS jack
Left & Right out
summed

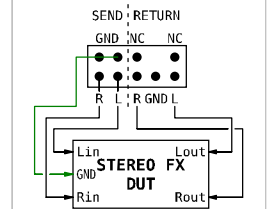
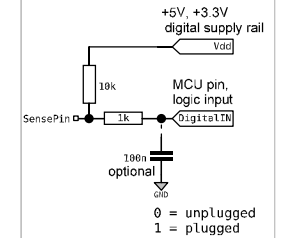
LEFT OUT

L+R OUT

1xTRS stereo jack
TIP= Right
RING=LEFT
SLEEVE = GND



IN/OUT Jack presence detection example:



Input gain range:

$$A_{in_min} = -R_{10}[R_{21}] / (P_{1max} + R_{20}[R_{30}])$$

$$A_{in_min} = 0.18 = -14.9dB$$

$$A_{in_max} = -(R_{10}[R_{21}] + P_{1max}) / R_{20}[R_{30}]$$

$$A_{in_max} = 5.54 = +14.9dB$$

Middle setting = $A_v = 1 = 0dB$

EF LEVEL/ MIX Switch:

EF LEVEL: dry signal is passed through,
P2 controls the wet signal
volume

MIX: dry/wet blend control

Dev_LOOP

Stereo FX loop dev board

Design: Piotr Zapart

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www.hexeguitar.com