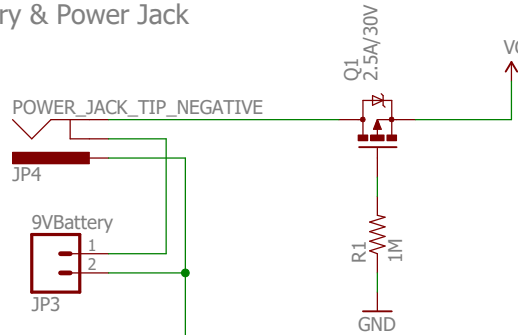


9V Battery & Power Jack



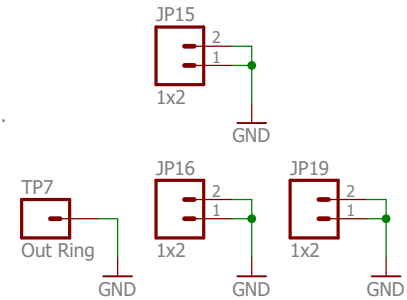
Nominal Power is 9V battery or 9V wall wart. Wall wart follows the Roland/Boss convention:
 *Tip is ground.
 *Sleeve is +9V.

Plugging in to the barrel jack takes the battery out of circuit by lifting the sleeve normal.

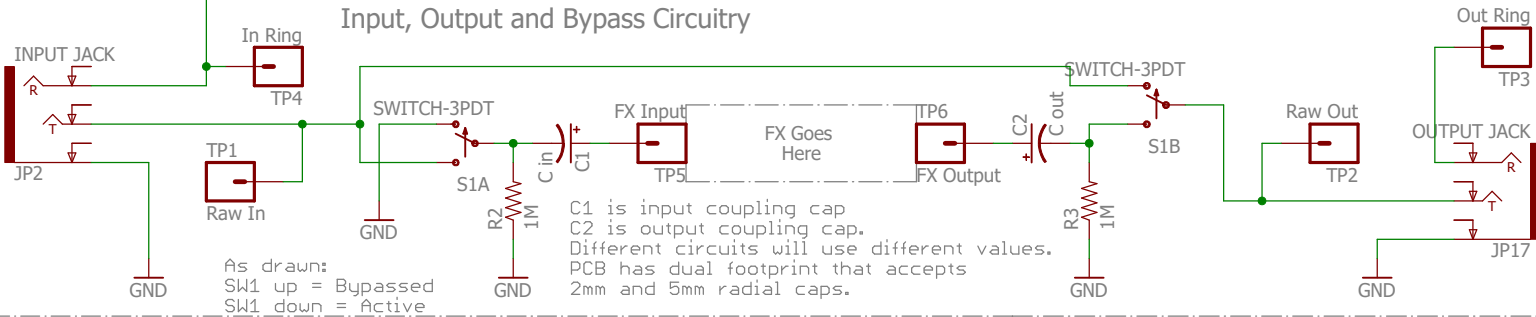
Q1 is wired as ideal diode, to only conduct when power is properly polarized. Reverse polarity isn't conducted, preventing damage if wrong wart is used, or if battery is mistakenly reversed.

As per pedal convention, ground of power source is tied to ring of input jack. Inserting a standard TS jack shorts ring to pedal ground, completing power circuit and turning pedal on.

Test points on ground



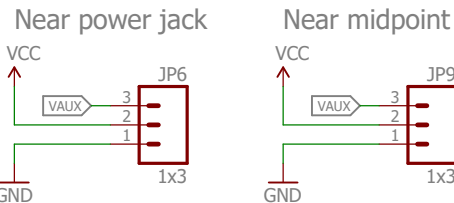
Input, Output and Bypass Circuitry



C1 is input coupling cap
 C2 is output coupling cap.
 Different circuits will use different values.
 PCB has dual footprint that accepts 2mm and 5mm radial caps.

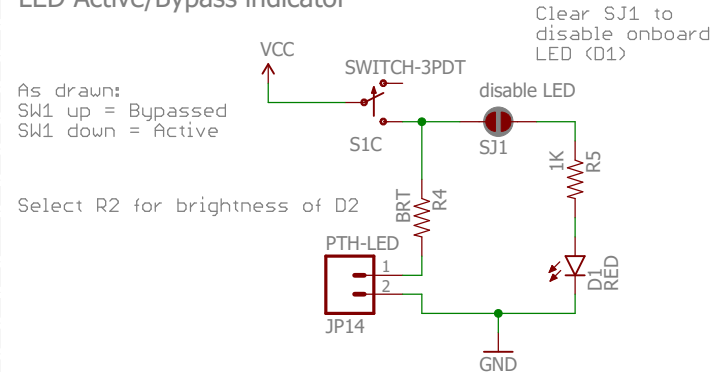
As drawn:
 SW1 up = Bypassed
 SW1 down = Active

Power Pins



VAUX is optional auxiliary voltage intended for 3.3V or 5V for digital circuits, or buffered VCC/2 reference voltage.

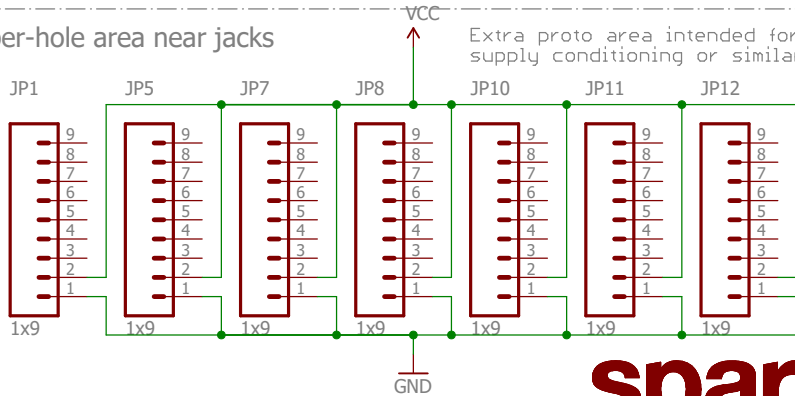
LED Active/Bypass indicator



As drawn:
 SW1 up = Bypassed
 SW1 down = Active

Select R2 for brightness of D2

Pad-per-hole area near jacks



Extra proto area intended for extra power supply conditioning or similar functions.



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open hardware

TITLE: Proto_Pedal

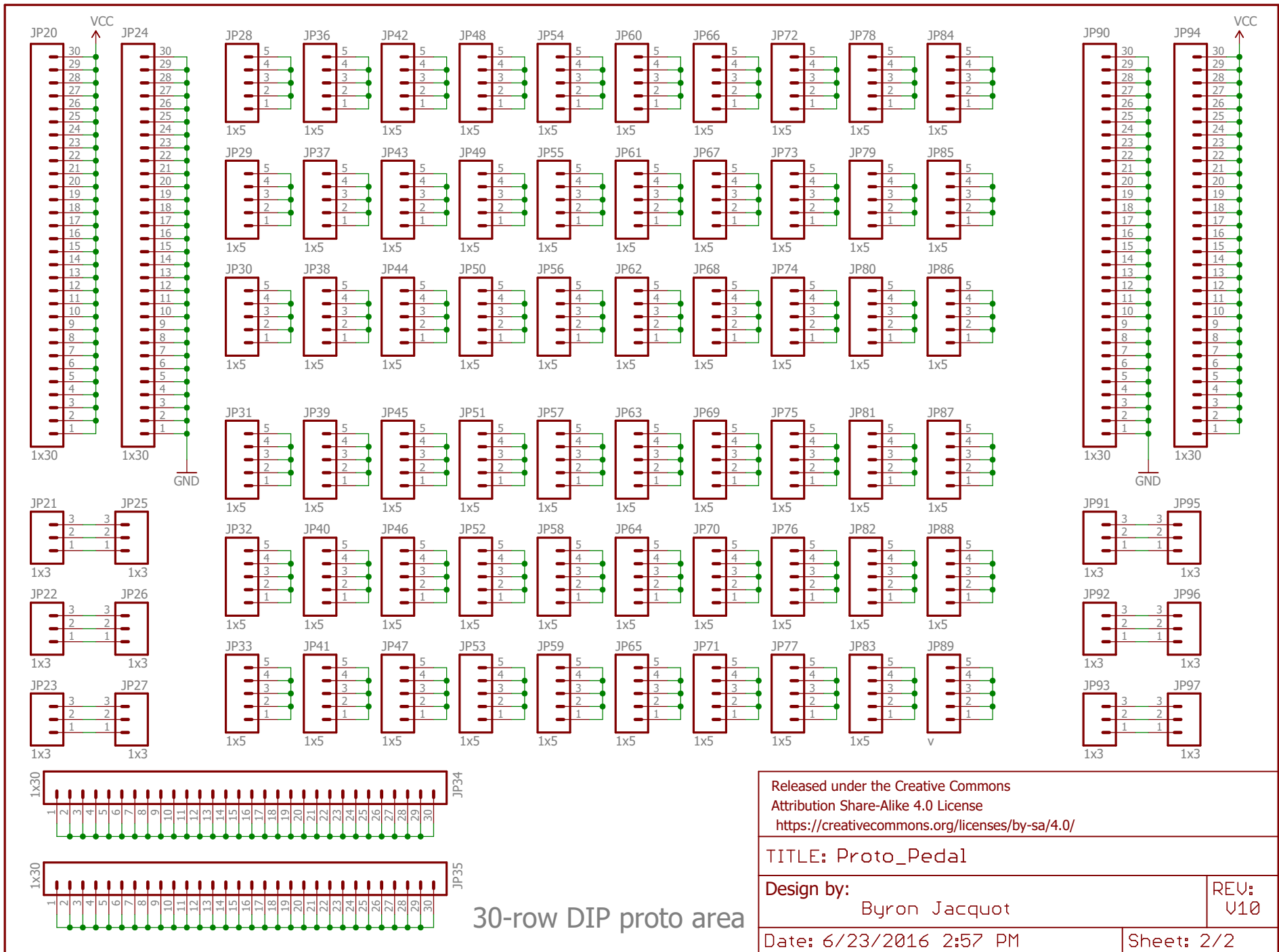
Design by:
 Byron Jacquot



REV:
 V10

Date: 6/23/2016 2:57 PM

Sheet: 1/2



30-row DIP proto area

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TITLE: Proto_Pedal	
Design by: Byron Jacquot	REV: V10
Date: 6/23/2016 2:57 PM	Sheet: 2/2