

Input/battery switching and switch terminal grounding rationale: https://www.freestompboxes.org/viewtopic.php?t=32540 Input TIP SWITCH and SLEEVE are connected to negative supply, input RING is connected to circuit ground.
 When an input cable is not plugged in, the effect circuit is open (off) due to lack of a return to ground. - When a TS input cable is plugged in, RING shorts to SLEEVE and completes the circuit from negative supply to ground, energizing the circuit.

— Note that a TRS cable will not complete the circuit, and the effect will remain off. Battery vs DC supply switching works similarly: When a DC source is not plugged into the jack, a BATTERY\_POS is connected to the DC\_SHIELD net.
 When a DC source is plugged in, the switch opens the battery circuit to providing an alternate positive supply. - Output tip (signal) switch IS NOT grounded, as grounding the output of the circuit when energized could damage effect circuit components. - Input tip (signal) switch IS grounded, to prevent an output signal from being produced when no input cable is present.

github.com/whbeers/noise\_floor

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OUTPUT\_TIP\_SW

9<sub>OSW1C</sub>

EFFECT\_OUTPUT\_SW