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.