

# System J<sup>®</sup> Synthesizers

## Boss DR-55 DC Input

Provides a regulated 6v DC output from any 9-15v DC power supply input - designed to use Boss PSA or similar negative tip adapter.

Can replace original battery operation. PCB connects back-to-back with existing DR-55 battery clip.

No modification of original DR-55 circuit needed and PCB can be mounted permanently or temporarily to suit the user's requirements.

Optional 3v lithium battery for memory back-up should you wish to save your patterns after power-off.

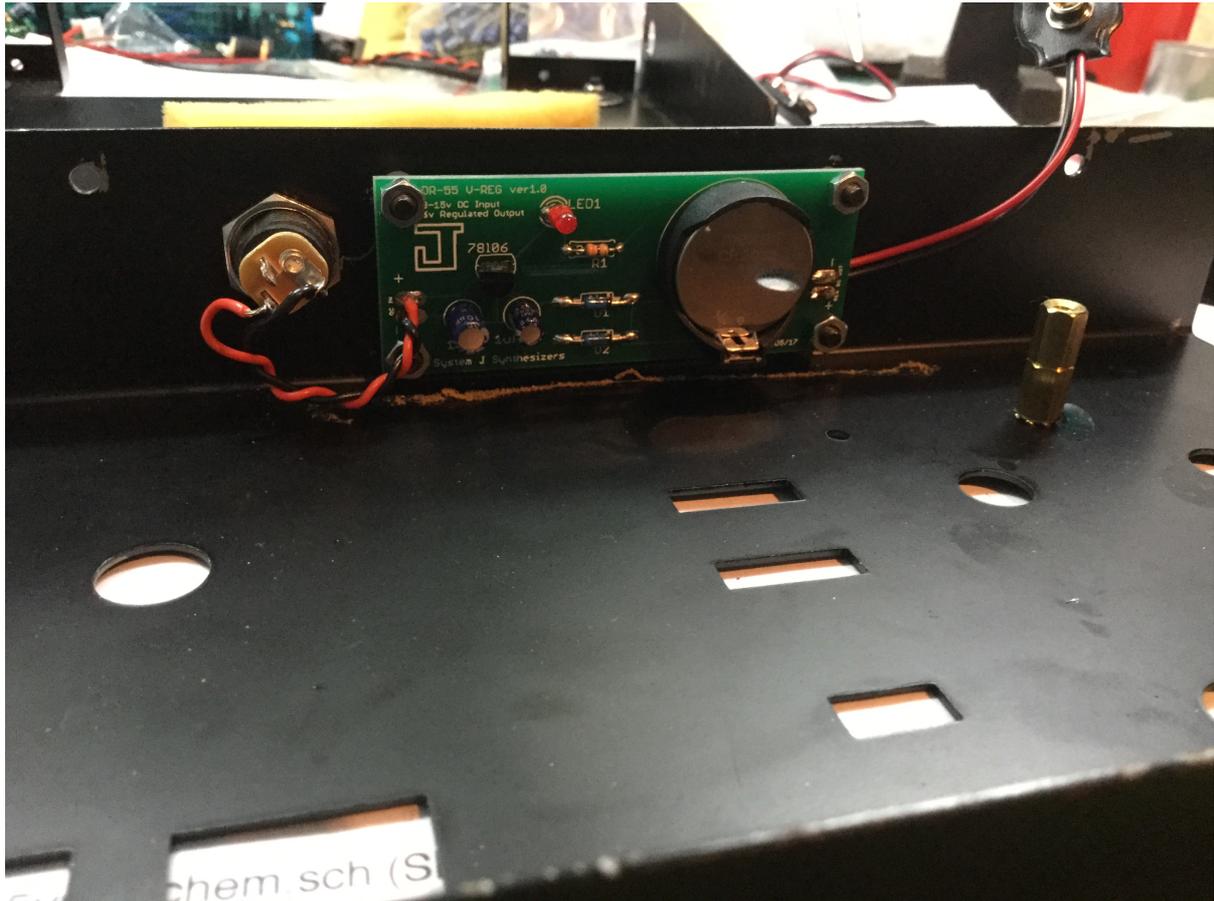
### Temporary Mounting Option

If you don't want to drill your DR-55 casing you can simply insulate the PCB in heat shrink sleeving and sit it inside the battery compartment - shown below with an in-line DC socket connected with flying wires. You then have the choice of using the original 4xAA batteries or the DC input PCB.



### Permanent Mounting Option

Panel mount DC socket requires soldering of the two wires - black negative to tip contact and red positive to sleeve contact as shown below... check with multi meter.



Drill sizes for panel mounting.

DC socket panel cut-out - 12.5mm. M3 mounting screws - 3.2mm.

Double check your work before applying power. Connect a suitable DC power supply to the new DC socket - red LED will light. Connect the battery clip back-to-back with the existing DR-55 battery clip - (note that the battery clip wires are connected to the PCB in reverse to preserve correct polarity once snapped together with existing battery clip).

If you are installing the 3v lithium coin cell please note that you still have to switch off the DR-55 and unplug the audio output jack when not in use to avoid draining the battery. The original design of needing to insert an output jack before the unit will power-on is retained. If you are experienced in electronics and have no problem with modifying your gear then you can of course use this voltage regulator PCB in any way you like and adapt it's use in the circuit to suit your needs. The 3v lithium battery is in circuit via a diode "OR" arrangement and will supply this small voltage to the static RAM when no power supply is connected - it is optional and only needed if you require memory retention.

## DISCLAIMER

Please only attempt modifications if you're confident to do so. I accept no responsibility if you damage your machine!

[www.systemjsynthesizers.co.uk](http://www.systemjsynthesizers.co.uk)

# Mounting Examples

