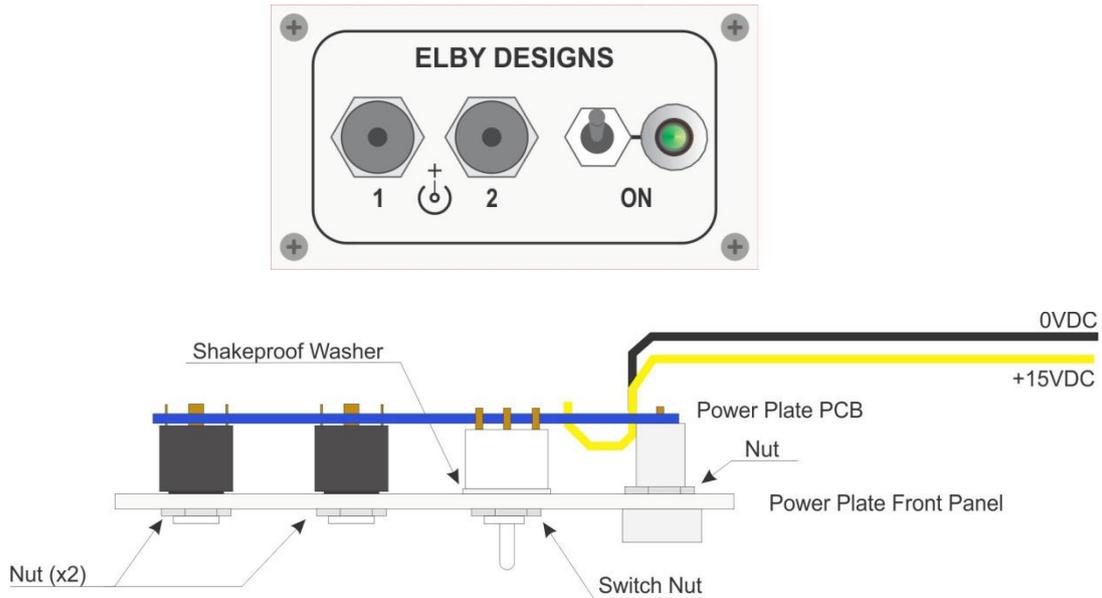


# Power Plate Assembly Notes

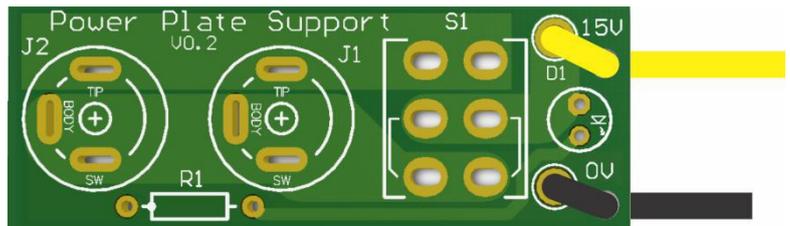
## Power Plate - Toggle Version



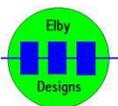
Refer to the above diagram when reading the following assembly notes. Also refer to [Power Plate PCB](#) (3D Model)

Before starting assembly, check that the 0/15V (Black/Yellow) leads are a suitable length. Measure the distance between where the Power Plate will be mounted and the terminals on your busboard and including suitable allowance for a clean and route. Add an extra 5cm to allow for terminating to the Power Plate PCB.

1. Fit R1 (2K2 for a standard Red LED)
2. Feed the wires through their respective strain-relief holes starting from the solder-side of the PCB
3. Cut and strip 5mm off one end of the black and yellow leads
4. Insert the leads in to their solder points and solder (Yellow = +15V, Black = 0V)
5. Trim off excess wire
6. Carefully pull the leads through until there is no excess lead
7. Mount the LED on to the front panel but leave the nut loose so that the LED body can be turned for final alignment
8. Mount the switch and 2x DC jacks on the PCB but do not solder
9. Offer the PCB up to the panel components ensuring that the LED is correctly orientated to the PCB markings
10. Attach nuts to the DC jacks and switch and secure using a suitably sized spanner.
11. Check the alignment of the PCB. The PCB should be firmly against the switch and should be parallel to the front panel
12. Solder all the components in to place



Click [here for the Bill Of Materials](#)



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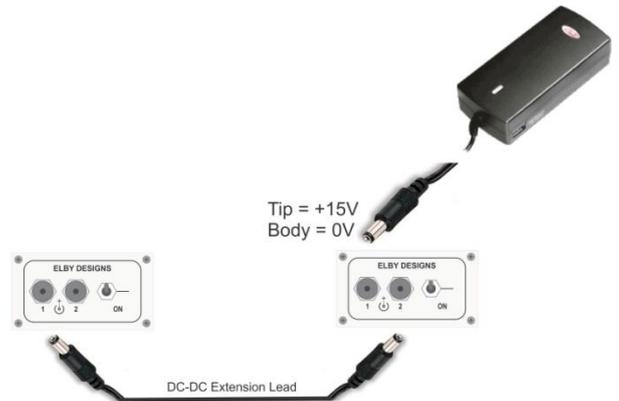
# Power Plate Assembly Notes

## Power Plate Usage

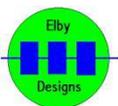
The Power Plate uses a single external DC power source of +15VDC and is intended to feed an internally mounted DC/DC power supply that generates the requisite +12V/-12V rails for the system.

It is connected to one of the DC inlets. The 2nd DC inlet is to allow the DC supply to be daisy-chained to a 2nd Power Panel allowing multiple systems to be powered from a single external supply.

The maximum rating is approximately 5A (defined by the DC sockets) so this must be considered when connecting multiple power boards (this 5A figure is the total for both the +12V and -12V rails and should include a small allowance for peak loads).



**NB: You must NOT connect multiple external power supplies to these DC sockets**



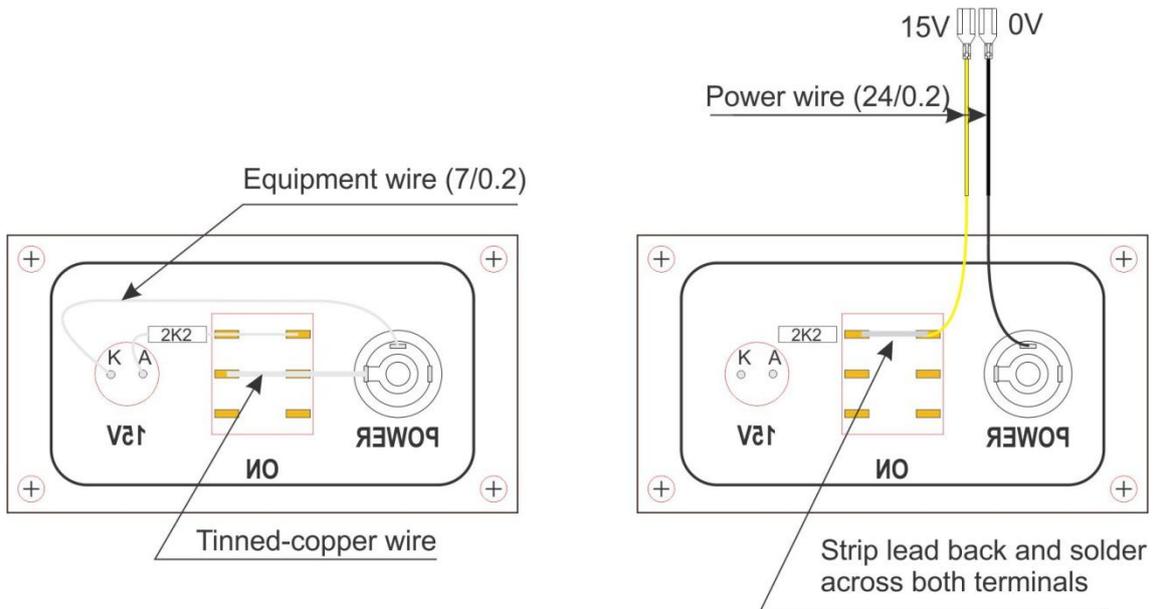
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# Power Plate Assembly Notes

## Power Plate – Rocker Version

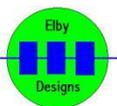


The rocker version of the Power Plate does not use a carrier PCB and requires to be hard-wired.

Before starting assembly, check that the 0/15V (Black/Yellow) leads are suitable length. Measure the distance between where the Power Plate will be mounted and the terminals on your busboard and including suitable allowance for a clean and route. Add an extra 5cm to allow for terminating to the Power Plate PCB.

Referring to the above drawing:-

1. Cut the LED legs to a length of about 5mm (keeping the longer leg slightly longer to help identification)
2. Mount the 2K2 resistor between the ANODE of the LED (longer leg on the LED) and the switch contacts as shown. Feed the resistor leg through both switch contacts.
3. Connect the CATHODE of the LED (shorter leg on the LED) to the centre contact of the DC jack as shown using the Equipment Wire supplied.
4. Connect the centre contacts of the switch to the left-hand contact of the DC jack as shown using tinned-copper wire.
5. Connect the 0V (BLACK – Power Wire) lead to the centre contact of the DC jack as shown
6. Connect the 15V (YELLOW – Power Wire) lead to the top 2 contacts of the rocker switch as shown



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