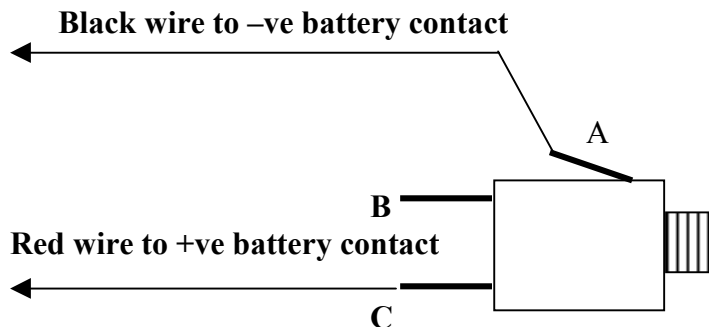


## Conversion of Laser Rayboxes for 3V power supply operation

- 1 Pop the top cover of the laser off by depressing the switch and pulling the two sections apart. This is easiest if you lever from the back.
- 2 Drill a 6mm hole in the rear of the the laser top housing (Blue or yellow section)
- 3 Fit the jack socket into the drilled hole.
- 4 Cut one 50mm length of thin insulated hook up wire. Strip and tin both ends.
- 5 Aim the laser away from you and identify the battery conacts. The right hand contact will have a green or red wire coming from the switch, the left hand one will have a black wire.
- 6 Solder the wire to the right hand battery contact, making sure that the existing wire remains attached. Solder the other end of the wire to jack socket point C.
- 7 Desolder the black wire from the left hand battery contact and solder it to jack socket point A.
- 8 Jack contact B is not used.
- 9 Reassemble the case.
- 10 Using a plug-top power supply set to **3V dc** and fitted with a 3.5mm jack plug wired with the plug tip positive, plug into the laser and switch on – the laser should operate. Please be aware that there is a warm up time of up to 5 minutes before the laser operates at full power.
- 11 Please note that the unit is now no longer capable of being powered by battery.
- 12 **N.B. Ensure that 3V only is used. Higher voltage will destroy the laser element.**
- 13 An alternative is to use two lengths of stripped wire and to piggy back the connections from the jack to the battery contacts. C to +ve, A to –ve. Please note that under these circumstances the cells should be removed before plugging in the psu.



**Rapid Electronics No. 20-0135  
Switched 3.5mm mono jack socket**

**Phil Walsh  
Electrosound  
01376 340506**