

# Lumafix for C64

## Installing the board

- Locate the VIC-II chip, now, this Commodore 64 you've opened is probably over 30 years old so don't touch anything that you don't need to. When removing the IC it may appear stuck - don't yank on it, just carefully ease it out. If you don't have a dedicated IC-extractor, you *can* use a flat screwdriver - just loosen it slightly from each side until it comes loose, take care not to scrape it against the motherboard under the socket!
- Insert the extracted IC into the board, matching the indent to the socket while taking care that all pins go into the socket and don't get stuck or bent underneath it. Insert the board into the now empty socket on the motherboard, taking care to match the orientation to the socket.
- Turn all the potentiometers anticlockwise all the way until you can hear you're at the beginning, with the Commodore 64 adjust the top one until you get the picture as good as it can get. The middle one will dial it in the rest of the way until you are completely satisfied with the startup screen on the Commodore 64. The bottom potentiometer adjusts phase-variance on the colour signal, for this you may need to play around with it until you are satisfied with the results - mostly this will help alleviate slight ghosting effects on coloured objects on the screen, but for the most part just dial in the prettiest blue startup screen you can find and come back to it later if you find that you need to.
- Note that the values dialled in will be very specific for the TV you'll be using, so test it out on the TV-setup you'll be using. Some TVs need more help than others, if you're lucky enough to still own a CRT you probably won't need this in the first place!