

USBSID-Pico PCB revision v1.0

manual

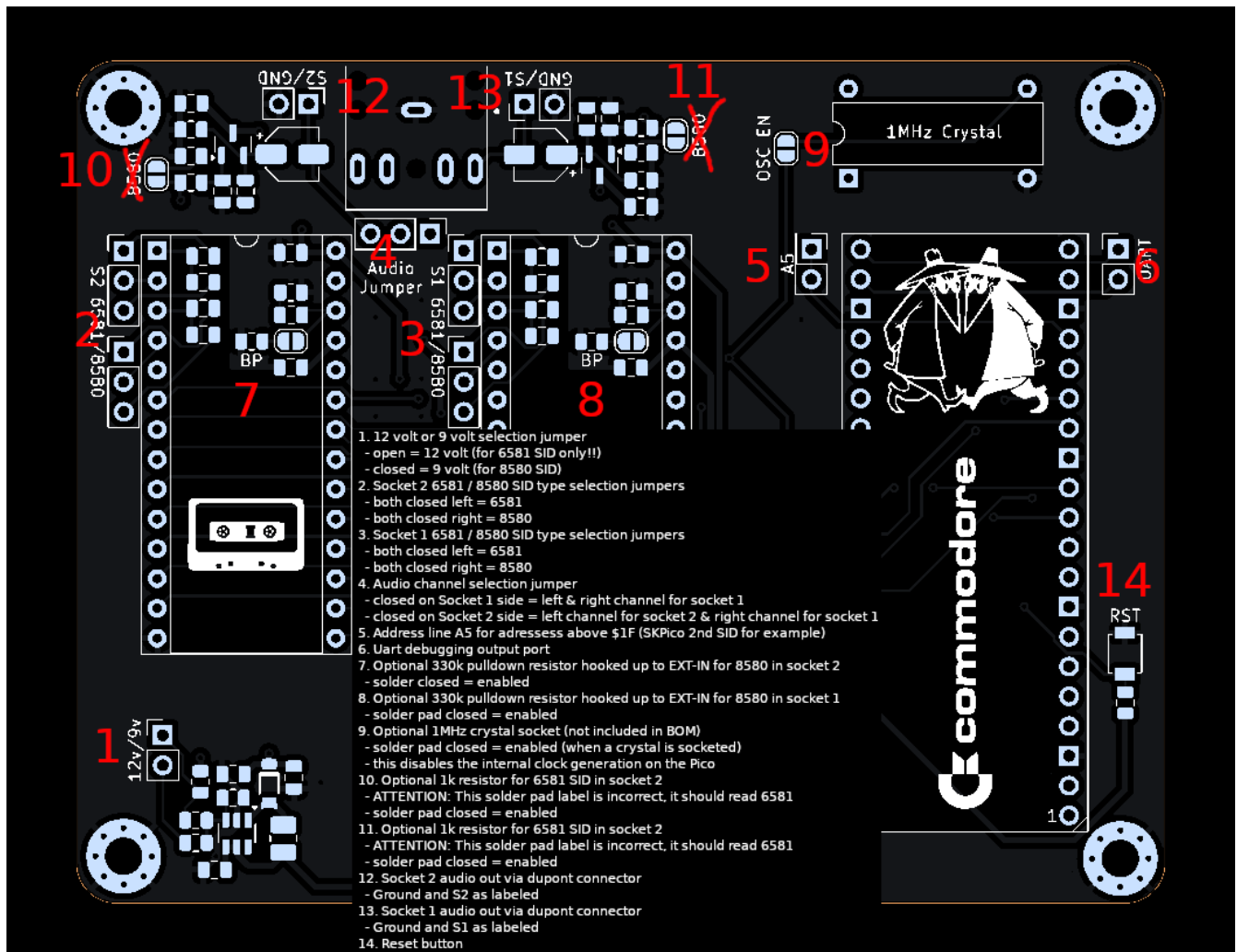
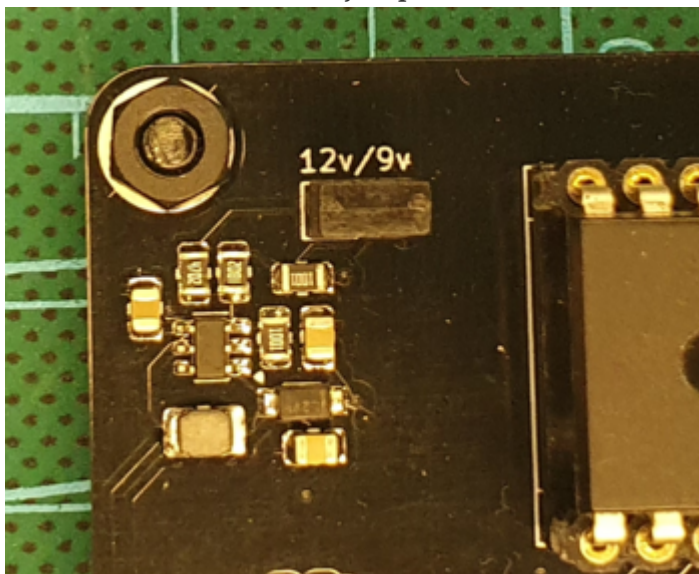


Figure 1. Explained

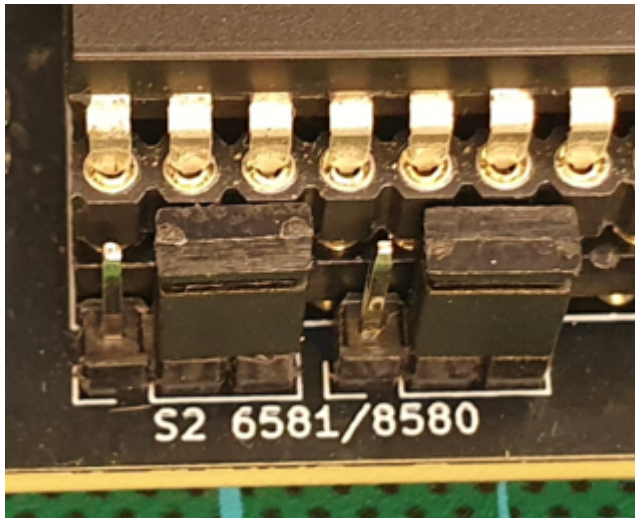
1. 12 volt or 9 volt selection jumper



- open = for 6581 SID only!! (12 volts)

- closed = for 8580 SID (9 volts)

2. Socket 2 6581 / 8580 SID type selection jumpers



- both closed left = 6581
- both closed right = 8580

3. Socket 1 6581 / 8580 SID type selection jumpers



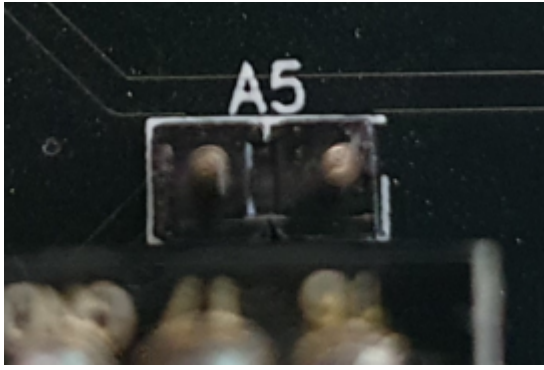
- both closed left = 6581
- both closed right = 8580

4. Audio channel selection jumper



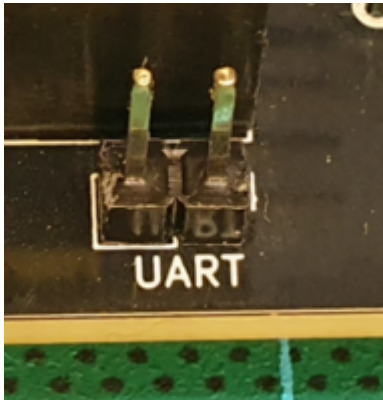
- closed on Socket 1 side = left & right channel for socket 1
- closed on Socket 2 side = left channel for socket 2 & right channel for socket 1

5. Address line A5 for adressess above \$1F (SKPico 2nd SID for example)



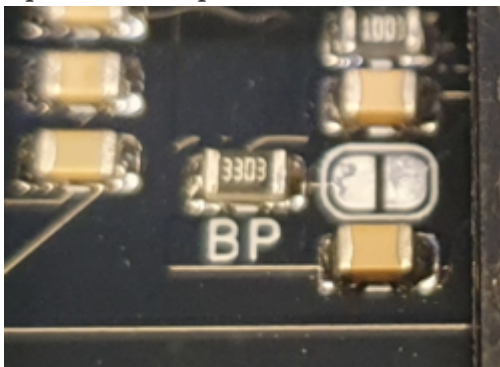
- both pins are routed to the same GPIO for using addresses higher then \$20

6. Uart debugging output port



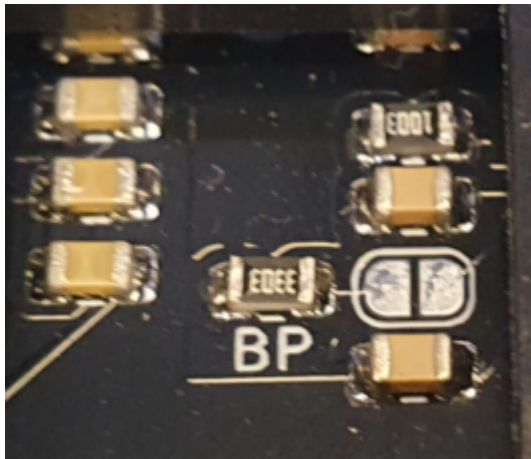
- TX on the right
- RX on the left

7. Optional 330k pulldown resistor hooked up to EXT-IN for 8580 filter bypass in socket 2



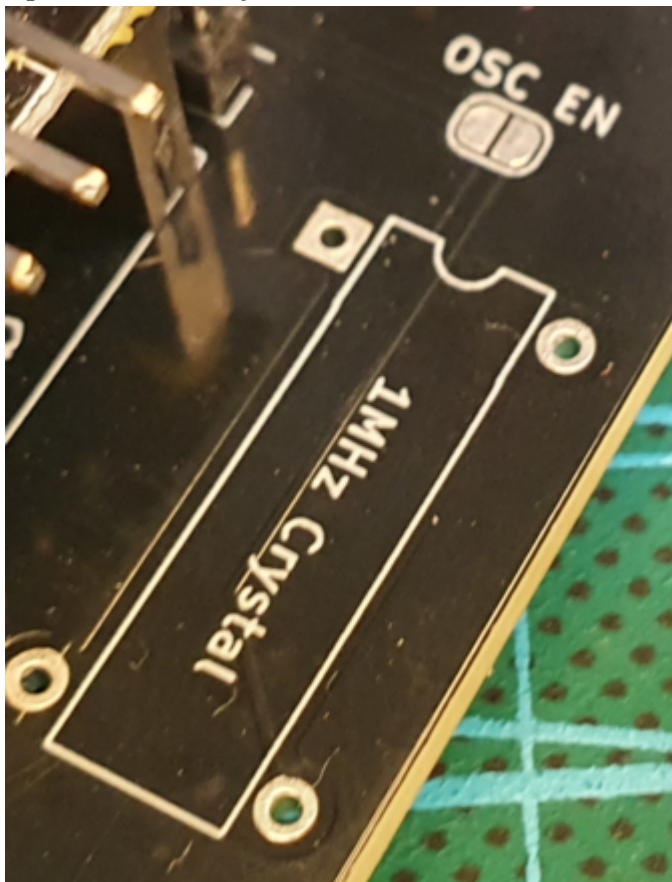
- solder closed = enabled

8. Optional 330k pulldown resistor hooked up to EXT-IN for 8580 filter bypass in socket 1



- solder pad closed = enabled

9. Optional 1MHz crystal socket (not included in BOM)



- solder pad closed = enabled (when a crystal is socketed)
- this disables the internal clock generation on the Pico

10. Optional 1k resistor for 6581 SID in socket 2

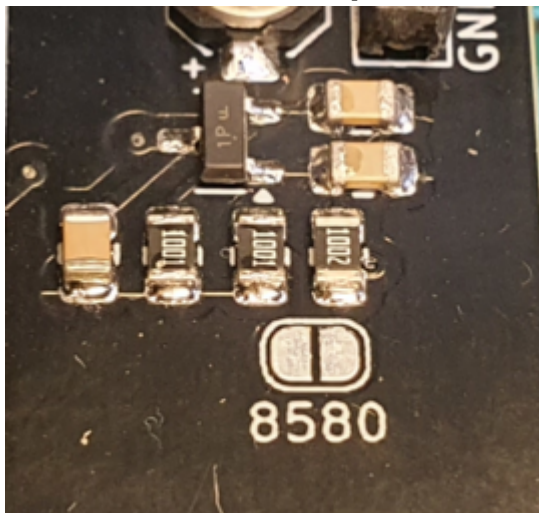
- **ATTENTION!:** *This solder pad label is incorrect, it should read 6581!*



- solder pad closed = enabled

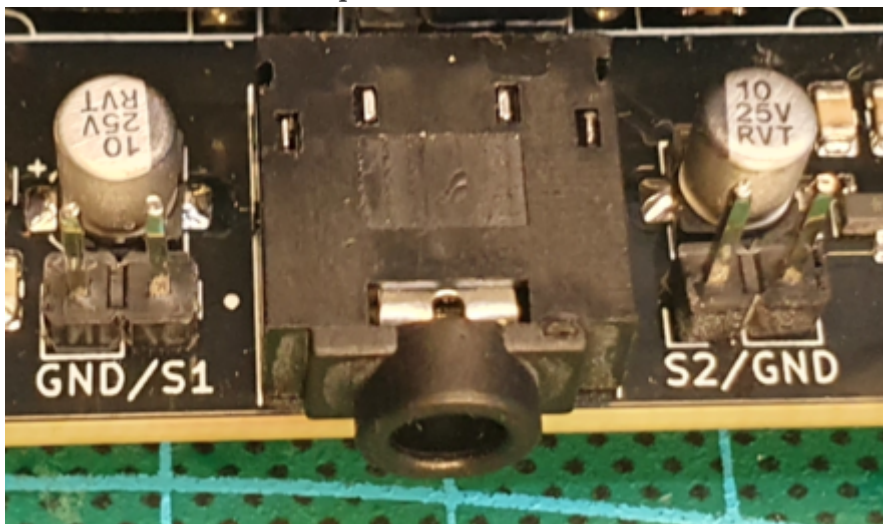
11. Optional 1k resistor for 6581 SID in socket 2

- **ATTENTION!:** *This solder pad label is incorrect, it should read 6581!*



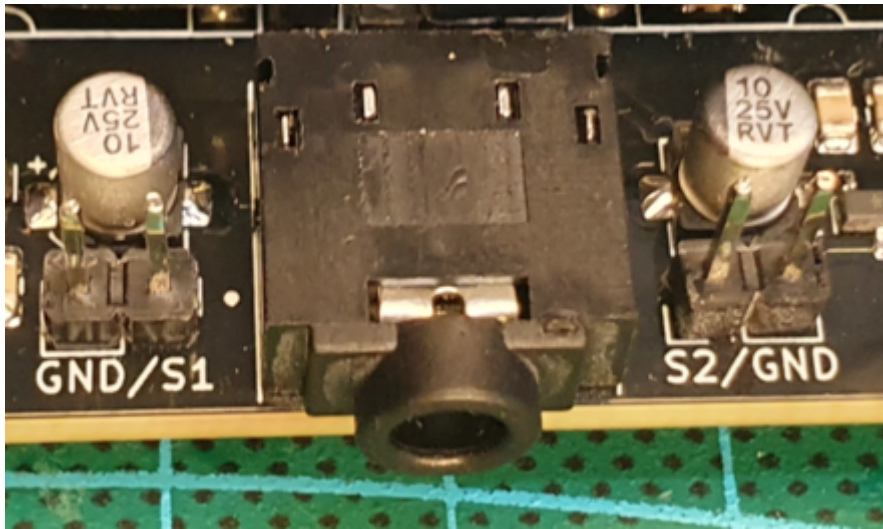
- solder pad closed = enabled

12. Socket 2 audio out via dupont connector



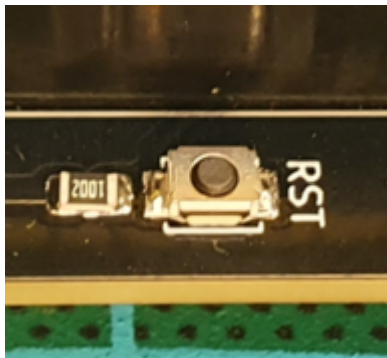
- Ground and S2 as labeled

13. Socket 1 audio out via dupont connector



- Ground and S1 as labeled

14. Reset button



Author: LouD - generated on 2025-05-27 08:57:07 +0200