

# NOTES & ERRATA FOR PROJECTS PUBLISHED IN SILICON CHIP (2024)

*Please note: errata apply primarily to the print edition of SILICON CHIP as online issues are normally changed when an error is identified. However some errata may still apply to the online edition; check carefully before making any changes to a project.*

**Microphone Preamplifier, February 2024:** in Fig.8, the 150Ω resistor next to CON10 should be 330Ω and the two 3.9kΩ resistors above L2 should both be 3.0kΩ as described in the text on p33. (04/24)

**Mains Power-Up Sequencer, February & March 2024:** in the Fig.3 circuit diagram (February, p52), fuse F1 should be rated at 10A, not 1A. Also scope grabs 1 & 2 show the current drawn by three amplifiers in parallel, not one. (03/24)

**Skill Tester 9000, April & May 2024:** in Fig.2 on p64 of the April issue, IC6 at lower left (NE555) is incorrectly labelled IC2. In Fig.3 on p69, the V+ and RS labels for pins 4 & 8 of IC9 and IC14 are swapped (pin 4 is RS, pin 8 is V+ in each case). In the text on p70, the 33nF, 470nF & 1uF values mentioned in the third paragraph of the right-hand column should be 10uF and 22uF instead. Finally, on p71, the 470nF value mentioned in the fourth line of the left-hand column should instead read 33nF. (06/24)

**Fan Speed Controller Mk2, May 2024:** in the left-hand column of text on p73, the reference to diode D1 in the fifth paragraph should be to D2 instead. (07/24)

**DC Supply Protectors, June 2024:** the two through-hole versions specify a maximum current of 7A but the SPP15P10PL-H P-channel Mosfets specified can only handle about 2.5A without heatsinking. A logic-level P-channel Mosfet with a lower on-resistance like the IPP80P03P4L-07 (SC6043) can be used instead without heatsinking (now included in both kits). (07/24)

**WiFi DDS Function Generator, May & June 2024:** errors on the PCB cause Button A to start channel B and Button B to have no effect, while LED T/Trig Out is shorted to ground. The two tracks currently going to pins 22 and 23 (GP17 and GND) of MOD1 should be cut and re-routed to pins 21 & 22 (GP16 and GP17), respectively. Also, both tracks currently going to pin 33 (AGND) need to be re-routed to pin 32 (GP27). Finally, in the parts list, diode D2 should be listed as a 1N5819 (the diode supplied in the kit is correct). (08/24)

**Automatic LQ Meter, July 2024:** a few constructors had problems with IC1 (OPA2677) oscillating, making it hot and causing excessive current to be drawn from the battery. Some have solved it by replacing diodes D1 & D2 with some from a different batch or by adding a 220Ω resistor in series with diode D1 (see Mailbag, September 2024, page 10). A better solution is to replace IC1 with an OPA2890 op amp. If you bought a kit and have this problem, contact us to request an OPA2890. (10/24)

**180-230V DC Motor Speed Controller, July-August 2024:** in the parts list (July issue, pages 76 & 77), the Altronics part codes for T1 are correct but the transformer is a 12V + 12V type, not 15V + 15V. Also, element14 no longer sells the RURG3060 (D1). You can get the new version, RURG3060-F085, from DigiKey or Mouser. (09/24)

**Pico Mixed-Signal Analyser (PicoMSA), September 2024:** an error in the PCB means the 10Ω through-hole resistor that powers the +5VA rail (left of LED1) does not connect to the +5V rail. This can be fixed by running a short wire on the underside of the PCB from the pad of that resistor closest to the Pico to the Pico's pin 40. Alternatively, scrape off the solder mask from the top-layer track that runs under the resistor and solder a short jumper to it. Also see the letter on page 5 of the November 2024 issue on new firmware that runs the Pico at 200MHz for better reliability. (11/24)

**Surf Sound Simulator, November 2024:** in the circuit diagram (Fig.2), the 56nF capacitor connected to pin 9 of IC2c should instead be connected from the anode of D5 to pin 9 of IC2c. The overlay diagram and PCB is correct. In the panel on p51, the two references to pin 8 of IC1d should say pin 14. (05/25)

**Maxwell's Equations, November 2024:** on p91, Gauss' full name is incorrectly given as Henrich Gauss instead of Carl Friedrich Gauss. (02/25)