

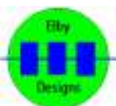


ES28 Touch Sequencer

Construction Guide

Revision 1.0

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ELBY Designs - Laurie Biddulph

9 Follan Close, Kariong, NSW 2250, Australia

elby-designs@bigpond.com

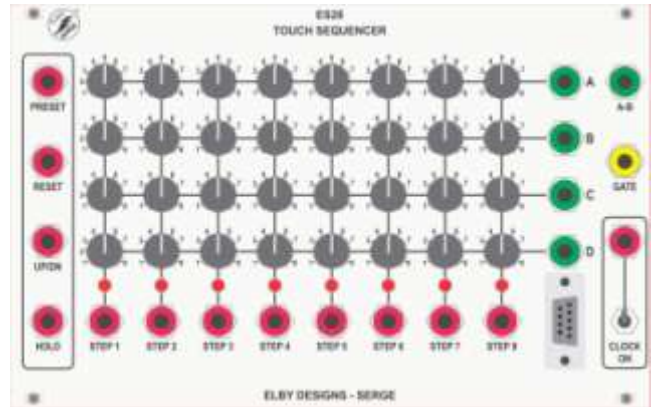
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ES28 Touch Sequencer

Construction of the ES28 requires the assembly of 2 boards:-

- Column 1 – Panther Jack PCB ([3D Model](#))
- Column 2 - ES28 Column 2-9 PCB ([3D Model](#))
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- Column 9 - ES28 Column 2-9 PCB ([3D Model](#))
- Column 10 - ES28 Column 10 PCB ([3D Model](#))
- Column 11 - ES21 Support PCB ([3D Model](#))
- Backboard - ES28 Main PCB ([3D Model](#))

Constructors should refer to the printed Component Overlay for any specific comments regarding the board assemblies, the Bill of Materials for the current value of all components and [General Construction Notes](#) for general pcb assembly guidelines. You are advised to check all of these documents on our website to ensure you have the latest copy.

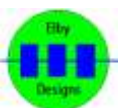


1. Prepare the 16x potentiometers by removing the locating tab using a pair of (old) wire cutters
2. Prepare the 8x LEDs by forming the legs to a 90° bend approximately 5mm from the back of the LED head. Check the orientation against the PCB footprint
3. Fit the 8x lens mounts to the front panel
4. Fit all components to the 11x 'column' PCBs except for the LEDs on the 'Column 2-9' PCBs
5. Install, but do not solder, an LED into one of the 'Column 2-0' PCBs.
6. Offer the sub-assembly up to the front panel in the Column 10 position. Guide the LED in to its mating lens mount.
7. Secure using the nuts and washers supplied.
8. Check the LED position and solder
9. Repeat steps (5) to (8) for the remaining 'Column 2-9' sub-assemblies
10. Install and secure the 'Column 1' sub-assembly using the supplied nuts
11. Remove the 2x hex fixing nuts from the DB9 socket
12. Offer the 'Column 10' sub-assembly up to the front panel and secure using the supplied nuts.
13. Secure the DB9 socket using the hex nuts
14. Install the 'Column 11' sub-assembly using the supplied nuts and washers
15. Install all the components on the ES28 Main PCB excluding JP1 and JP3
16. Offer this sub-assembly up to the front panel assembly ensuring all IDC sockets are correctly aligned.



Calibration

1. Monitor TP1
2. Adjust P1 for an output of 5.0V
3. Trigger [STEP 1] and set its associated 'A' and 'B' pots to maximum
4. Monitor output [A-B]
5. Adjust P801 for 0.0V output



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