

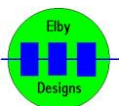


ES23 Sequence Programmer

Construction Guide

Revision 1.0

March 5th, 2016



Elby Designs - Laurie Biddulph

9 Follan Close, Kariong, NSW 2250, Australia

elby_designs@ozemail.com.au <http://www.elby-designs.com>

ES23 Sequence Programmer

Construction of the ES23 requires the assembly of 6 boards:-

Column 1 - ES24 PCB
Column 2 - ES24 PCB
Column 3 - ES24 PCB
Column 4 - ES24 PCB
Column 5 - ES23 PCB
Backboard - ES24 Back Board PCB

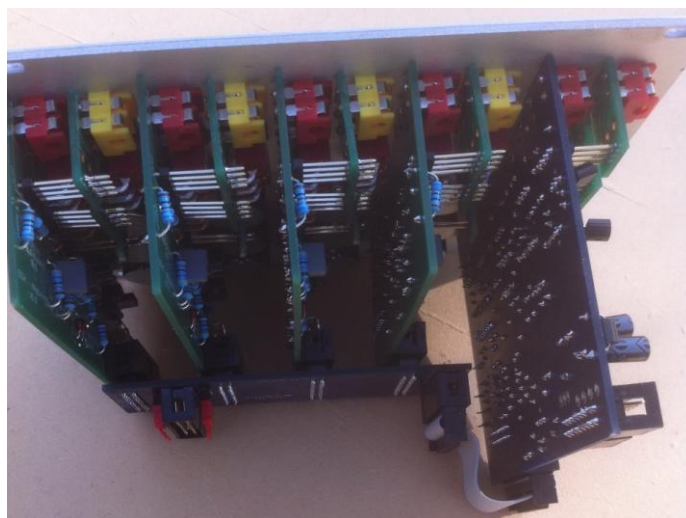
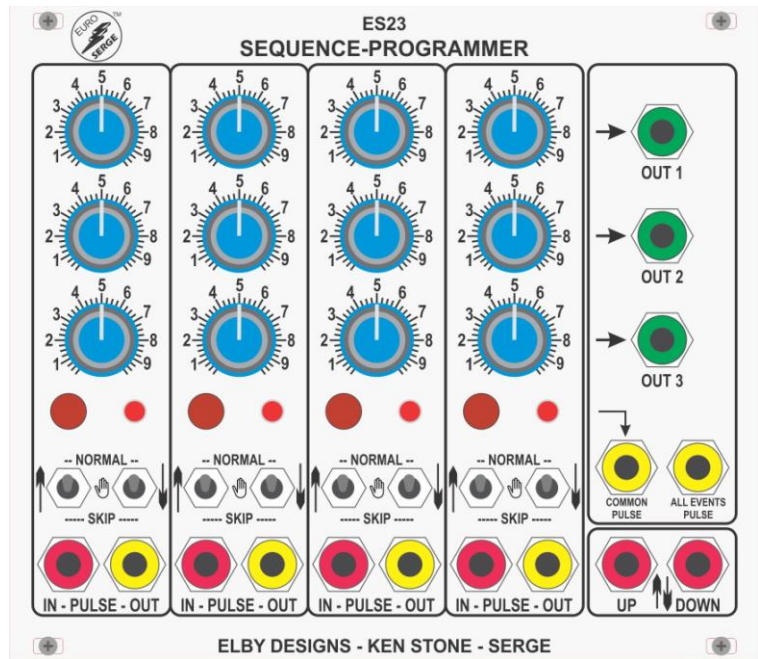
Constructors should refer to the printed Component Overlay for any specific comments regarding the board assemblies, the Bill of Materials for the current value of all components and [General Construction Notes](#) for general pcb assembly guidelines. You are advised to check all of these documents on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

Assembly of the ES24 boards should follow the procedure as detailed in the ES24 Build Guide

For assembly of the ES23:-

1. Mount all of the jacks on to their Carrier boards
2. Fit all components to the ES23 board except for jack assemblies
3. Position the jack assemblies on to the respective headers but do not solder
4. Mount the assembly on to the panel
5. Solder all of the headers in to place
6. Fit the 20-way IDC Ribbon cable to J302 on ES23 and to J5 on the ES24 Back Board

The 2x shunts should be fitted on to the last ES24 in the chain. If there are no ES24 4-Stage Programmer Extension modules connected to this ES23 then fit the shunts on to JP1 and JP2 of the ES24 Back Board in this module. If there are ES 4-Stage Programmer Extension modules in the chain from this ES23 then fit the shunts on to the last ES24 Back Board. You should also have 20-way IDC cables connecting the ES24(s) and ES23 together (this cable will connect between a J5 and a J6 socket on each successive ES24 group).

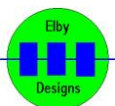


Calibration

The ES23 does not require calibration

NOTE:

On V0.3 revisions of the ES23 PCB, J302_16 has been cut and should not be soldered to the connector.



Elby Designs - Laurie Biddulph

9 Follan Close, Kariong, NSW 2250, Australia

elby_designs@ozemail.com.au <http://www.elby-designs.com>