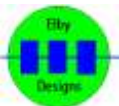




ES75 – VCS

Construction Guide

Revision 1.0
April 15th, 2010



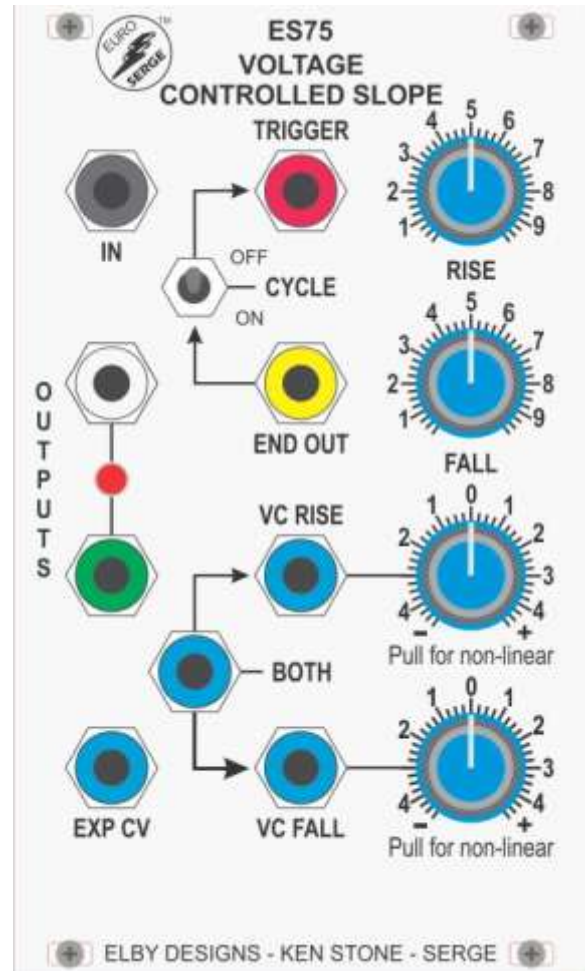
ES75 – VCS

Construction of the ES75 requires the assembly of 4 separate boards:-

1. Column 1: ES75 Column 1 PCB ([3D Model](#))
2. Column 2: ES75 Column 2 PCB ([3D Model](#))
3. Column 3: ES75 Column 3 PCB ([3D Model](#))
4. Backboard: ES75 PCB ([3D Model](#))

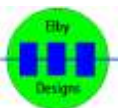
Constructors should refer to the printed Component Overlay for any specific comments regarding the board assemblies, the Bill of Materials for the current value of all components and [General Construction Notes](#) for general pcb assembly guidelines. You are advised to check all of these documents on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

1. Assemble both Carrier assemblies ([3D Model](#) - [3D Model](#))
2. Fit all components to the boards following normal assembly guidelines except for the jack and switch sub-assemblies
3. Place the 2x sub-assemblies on the Column 1 PCB and offer up to the panel, secure using the supplied nuts.
4. Mount the LED and solder in to position
5. Install the Column 2 and Column 3 assemblies and secure using the supplied nuts and washers
6. Attach the backboard ensuring correct alignment of the 3x IDC connectors



Calibration

1. Set [RISE] and [FALL] pots to about '4'
2. Set the [CYCLE] switch down
3. Push the switches on the [VC RISE] and [VC FALL] pots (selects 'linear mode')
4. Set the [VC RISE] and [VC FALL] pots to '0'
5. Monitor the [DC] output
6. Adjust P101 until the amplitude of the output is 5Vp-p



Elby Designs - Laurie Biddulph

9 Follan Close, Kariiong, NSW 2250, Australia

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