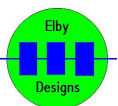




ES75 – VCS

Construction Guide

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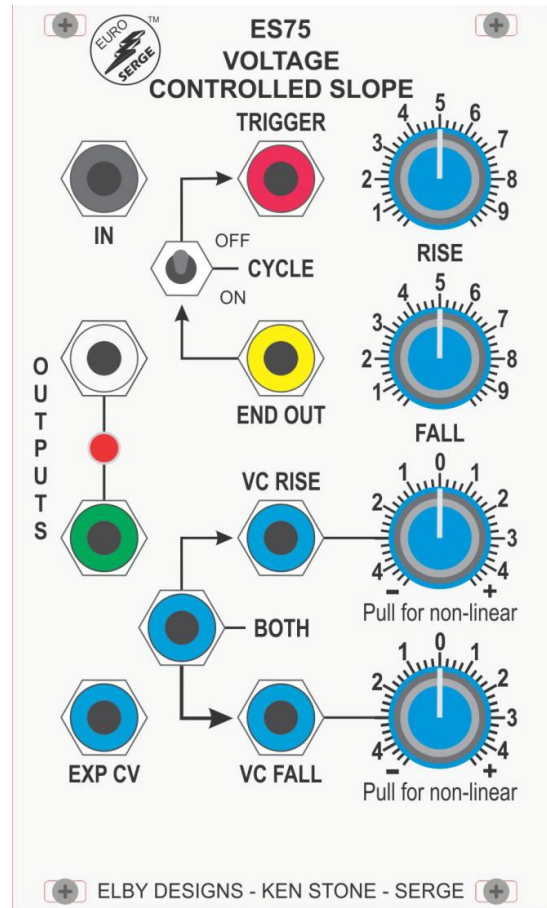
ES75 – VCS

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

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

Constructors should refer to the PCB 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.

1. Assemble 1x Jack Carrier Board ([3D Model](#))
2. Assemble 1x Switch Carrier Board ([3D Model](#))
3. Fit all components to the boards following normal assembly guidelines except for the jack and switch sub-assemblies
4. Mount the 2x sub-assemblies on the Column 1 PCB but do not solder
5. Offer the assembly up to the panel, secure using the supplied nuts.
6. Mount the LED and solder in to position
7. Install the Column 2 and Column 3 assemblies and secure using the supplied nuts and washers
8. 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

