



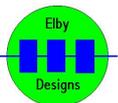
ES05 Noise Source

Construction Guide

Revision 1.1

PCB Revision V0.2

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ES05 Noise Source

Construction of the ES05 requires the assembly of 3 separate boards:-

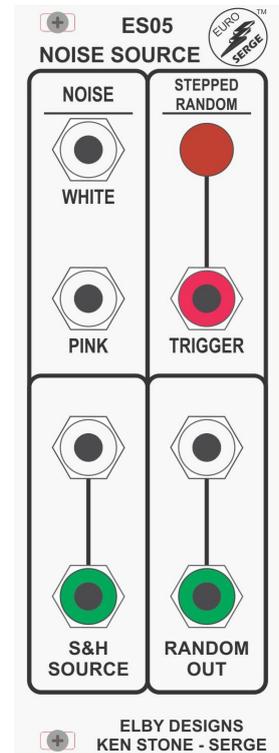
Column 1 - ES05A Noise PCB ([3D Model](#)) ([Overlay](#))

Column 2 - ES05B S&H PCB ([3D Model](#)) ([Overlay](#))

Back Board - ES05C Backboard PCB ([3D Model](#)) ([Overlay](#))

Constructors should refer to the PCB Overlays 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. Fit all components to the boards following normal assembly guidelines except S101, C101, R115 and R119
2. Fit the diode in to position in R115 as shown in the overlay
3. Install R119 vertically in to the pad for C101+ and then install C101 between the open leg of R119 and C101-
4. Locate S101 on to its PCB and offer the assembly up to the panel securing with the supplied nuts
5. Solder S101 in to position. S101 will sit a little high on the PCB so ensure that it is square to the PCB. Solder the legs from both sides of the board
6. Mount the Column 2 assembly to the panel
7. Mount the backboard to the assembly ensuring correct alignment of the IDC connectors. Also be careful of the positioning of the 2 electrolytics to ensure that they do not snag any parts on the 2 column assemblies.



Calibration

1. Monitor the [S&H SOURCE DC] output with an oscilloscope
2. Adjust P101 so that the bottom of the waveform reaches 0V

