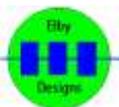




ES16 Extended ADSR Construction Guide

Revision 0.5
March 3rd, 2019



ES16 Extended ADSR

Construction of the ES06 requires the assembly of 4 separate boards:-

Column 1 - ES16 Column 1 Support PCB ([3D Model](#))

Column 2 - Panther Pot Support PCB ([3D Model](#))

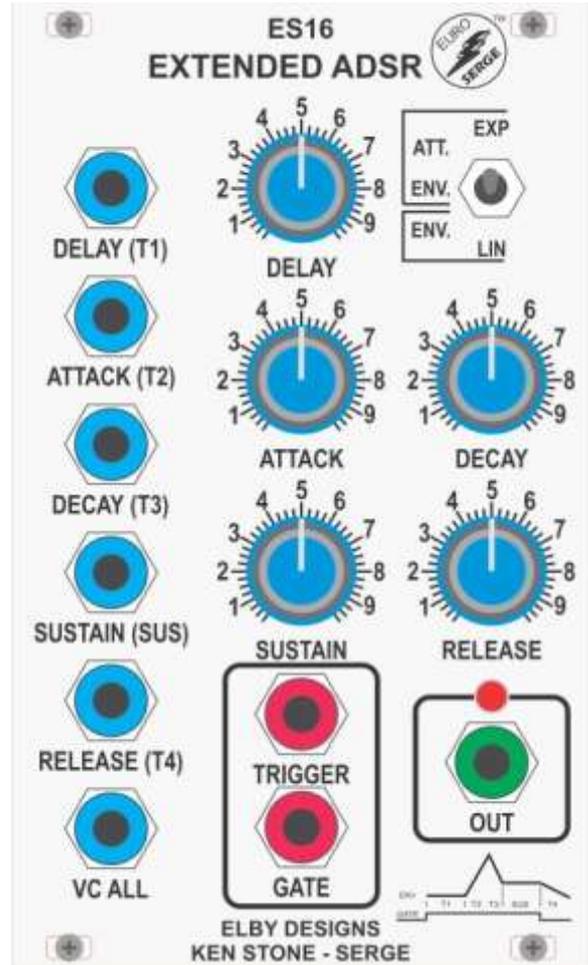
Column 3 - ES16 Column 3 Support PCB ([3D Model](#))

Main Board - ES16 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](#) document 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

1. Fit the jacks and the switch to the 4 carrier boards ([3D Model](#)) ([3D Model](#))
2. Assemble ES16 Column 1 PCB.
3. Assemble the Column 2 PCB except for the 2x jack sub-assemblies
4. Mount the 2x sub-assemblies but do not solder
5. Offer the assembly up to the front panel securing the jacks with the supplied nuts.
6. Solder the 2x sub-assemblies in place and then remove the complete assembly
7. Mount all components to the ES16 Column 3 PCB except for the 2x carrier sub-assemblies and the LED. Start with the 3x SMT devices by carefully soldering the 2 centre legs first and then finishing off with the 4 outer legs.
8. Mount the 2x sub-assemblies but do not solder
9. Offer the assembly up to the front panel securing using the supplied nuts and washers
10. Check that the body of the switch is parallel to the PCB and solder in to place along with the jack sub-assembly
11. Mount the LED and solder in to place
12. Mount all components on to the ES16 PCB
13. Mount the assemblies on to the front panel and then fit the main board ensuring that the IDC sockets are correctly aligned



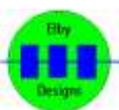
Calibration

The ES16 does not require any calibration or set-up

Options

There are 2 jumpers on the main board that allow the user to define the 'operational direction' of the [DELAY], [ATTACK], [DECAY] and [RELEASE] pots:-

1. The 'regular' EuroRack approach is for the minimum pot position to be equivalent to the shortest time period for the associated slope. For this option set Vmax - JP1 to +12V and Vmin - JP2 to 0V
2. The Serge approach is for the minimum position to be equivalent to the maximum time for the slope. For this option set Vmax - JP1 to 0V and Vmin - JP2 to +12V



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