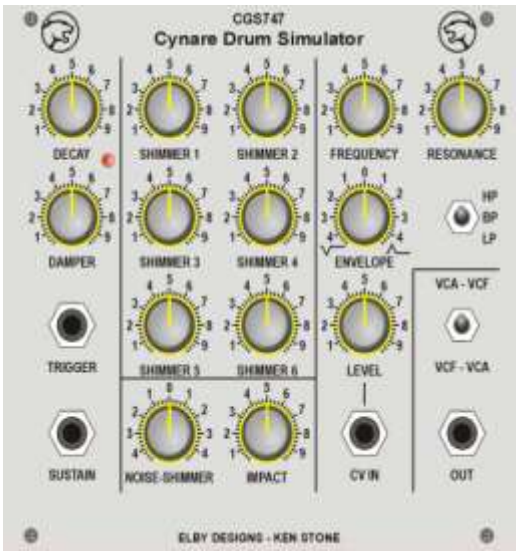
Panther Series – CGS747 Cynare Drum Simulator Module

Construction

Construction of the CGS747-Cynare involves 5 boards. 2 of these boards are the CGS747-Cynare specific boards – main board and shimmer board - while the remaining 3 are common Panther Support boards. Construction of all of these boards should follow the common guidelines as described in the General Construction Notes.



All jacks and switches should be left until last and attached to the board using the Front Panel as a jig to ensure good alignment of the components with minimal stress to the mounting points.

With the exception of the CGS747-Cynare main board, panel component assembly is relatively straight forward.

After all 5 boards have been assembled mount the assembly for Column 1 to the front panel and solder the 2x Jack Carrier board sub-assemblies in to place. Install the LED and solder in to place. Remove the assembly.

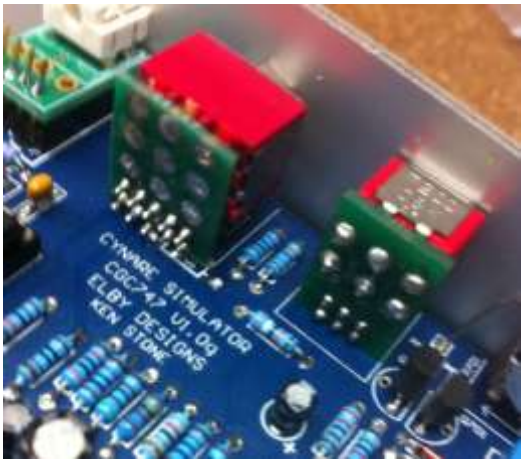
Mount the assembly for Column 4 to the front panel and solder the Jack Carrier board sub-assembly in to place. Remove the assembly.

Main Board Assembly Notes

Fit all components except:- R701, R702, S301, S701. Do not fit the headers for S301 or S701. Fit the header for J301 but not the jack/Carrier board. R701 & R702 are left off here to simplify access to the 2 switches assemblies and are fitted after this has been done.

P201 and P703 are now replaced by 2 fixed resistors. Insert one leg of each resistor in to the 2 centre pads of the footprint and then fit the remaining legs in to the 2 outer holes.

Fit the 2 switches and the jack to their respective Carrier Boards ensuring that they sit firmly and squarely on the boards. Note that S301 is orientated with its toggle running horizontally across the panel not vertically. Also, S701 should not have the internal nut fitted.



Offer the main board up to the front panel and loosely secure using P701.

Loosely mount the S301 assembly on to the front panel and swing the main board in to place allowing the S301 assembly to locate in to its footprint.

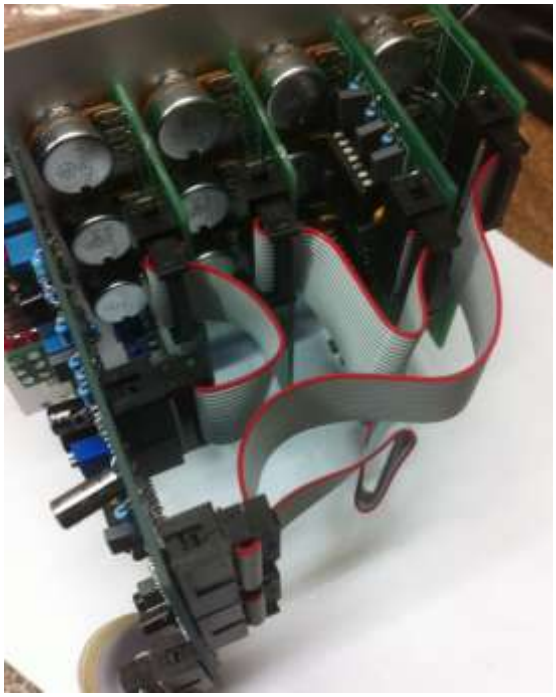
Adjust the 'inside' nut on S301 until it is against the rear of the panel and holding S301 relatively square to the board. Use the 2nd 'outer' nut to secure S301 and solder in to place.

Remove the assembly, drop the J301 assembly on to its header and remount the board to the panel. With the jack secured, solder it to its header.

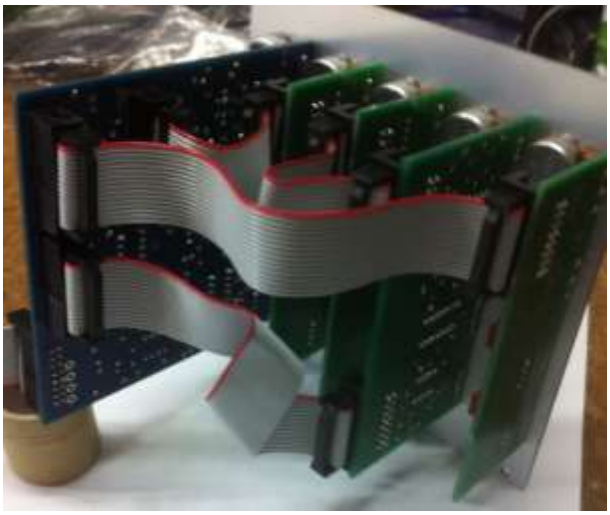
Finally remove the assembly, position S701 on the panel and remount the main board positioning S701 in its footprint.

Install R701 and R702.

If not fitted then insert all ics.



Complete final assembly of the module by mounting all 5 assemblies to the front panel and connect using the supplied IDC cables.



Calibration

RESONANCE TRIM (P702): This trimpot lets you adjust the maximum resonance of the module.