

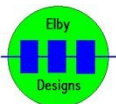


CGS721 Super Psycho LFO

Construction Guide

Revision 1.0

March 15th, 2016

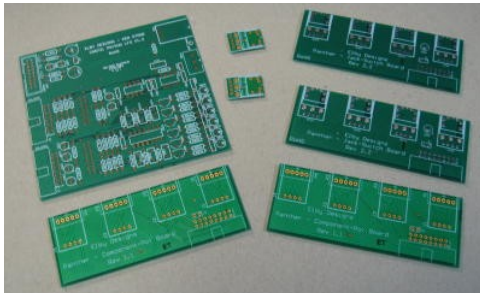


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CGS721 Super Psycho LFO



Construction of the [CGS721](#) involves assembling 5 PCBs:-

1. Column 1 - Panther Support Jack ([3D Model](#))
2. Column 2 - Panther Support Pot ([3D Model](#))
3. Column 3 - Panther Support Jack ([3D Model](#))
4. Column 4 - Panther Support Pot ([3D Model](#))
5. Column 5 - CGS721 PCB ([3D Model](#)) ([Overlay](#))



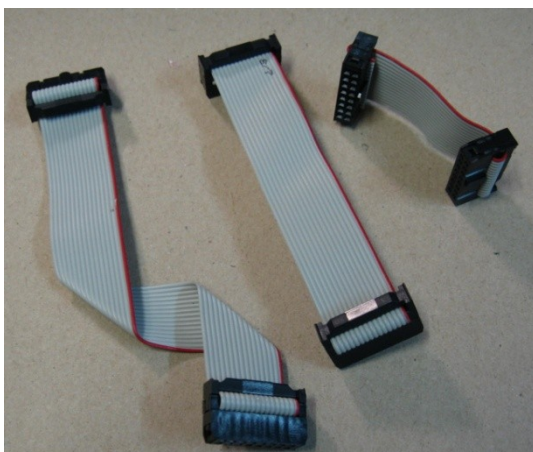
Constructors should refer to the printed [Component Overlay](#) for any specific comments regarding the board assemblies, the [Bill of Materials](#) for the current value of all components and [General Construction Notes](#) for general PCB assembly guidelines.

Numbering the columns on the front panel from left to right as 1 through to 5 the PCB for each column are:-

1. Column 1 - 1 x Panther Support Jack fitted with 4 SPDT ON-OFF-ON toggle switches
2. Column 2 - 1 x Panther Support Pot fitted with 4 pots
3. Column 3 - Panther Support Jack fitted with 2 x SPDT ON-OFF-ON toggle switches and 2 x SPDT ON-ON toggle switches
4. Column 4 - Panther Support Pot fitted with 3 pots and 1 x Panther Support Carrier V1.A fitted with a SPDT ON-ON toggle switch (MUST use the special Carrier Board provided)
5. Column 5 - CGS721 main board and 1 x Panther Support Carrier V1.2 fitted with a jack

Fit all components to the boards following normal assembly guidelines. Make sure all legs are trimmed as short as possible to prevent pins of components shorting against adjacent boards.

When fitting the pots to the PCB please ensure that there is approximately 1mm gap between the shoulder on the pot pins and the top of the PCB to prevent the possibility of the shoulders shorting to adjacent pads.

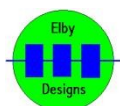


Four (4) interconnect cables are used to connect the associated Panther Support boards to the main board. Each connector on the main board is labelled with its relevant Column number. Note that 2 of the sockets are mounted on the rear of the main PCB.

Take special note of the orientation of the crimp housings with respect to the cable, referring to the photo at the left as a guide.

Two of the cables are intentionally longer so that they can be folded as shown at left. This aids keeping the cables tidy and close to the module board.

The CGS721 does not require any calibration and should work as soon as power is applied.

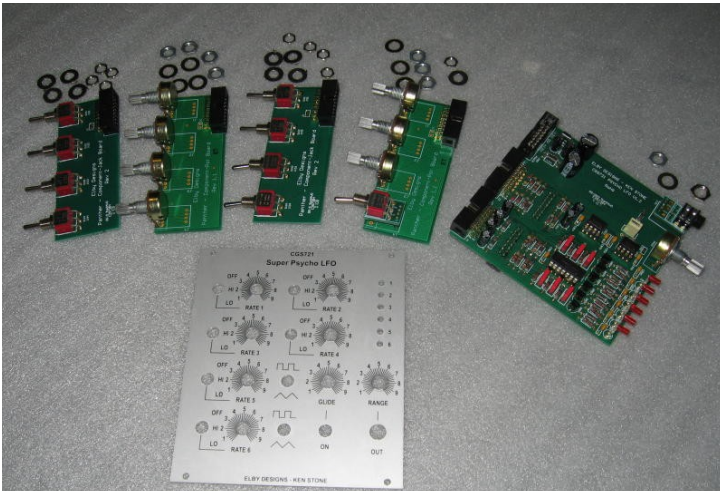


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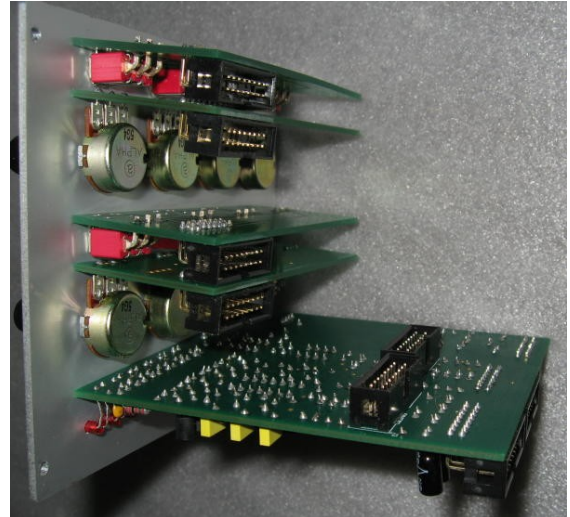
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This picture shows the various sub-assemblies ready to be mounted on to the panel.

And here they are installed and ready for the final cable installation.



POWER CONNECTION

The Panther Series of modules have been designed to be compatible with the popular Doepfer range of EuroRack modules and consequently uses a matching connector.

The red stripe on the power cable represents pin 1 (-12V rail) on the IDC connector.

Please pay particular attention to the orientation of the power cable and connector to prevent possible damage to the system.

