

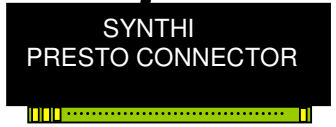
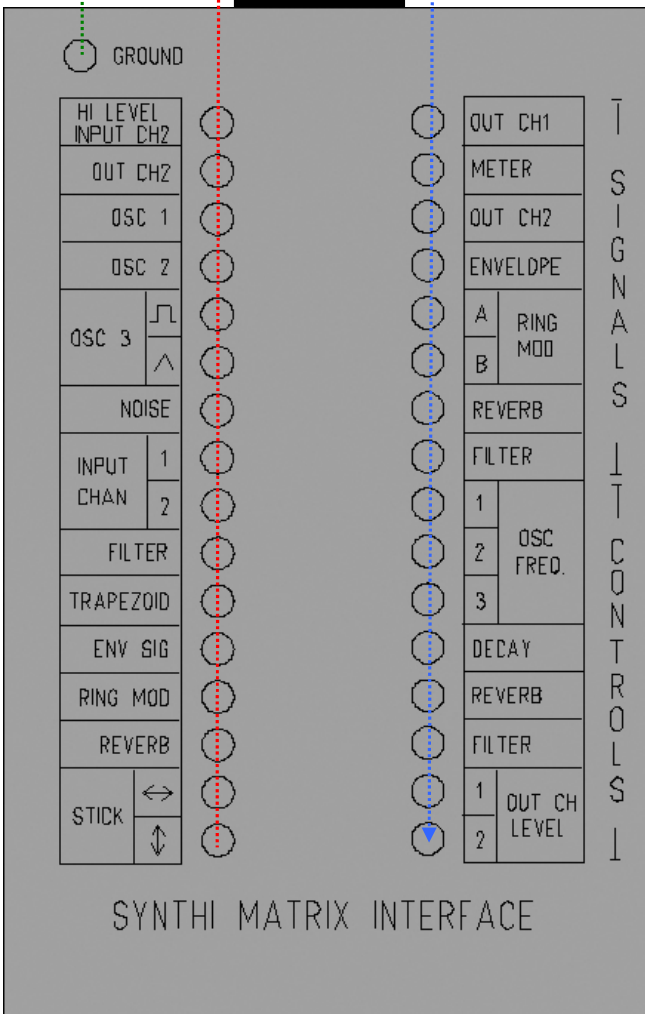
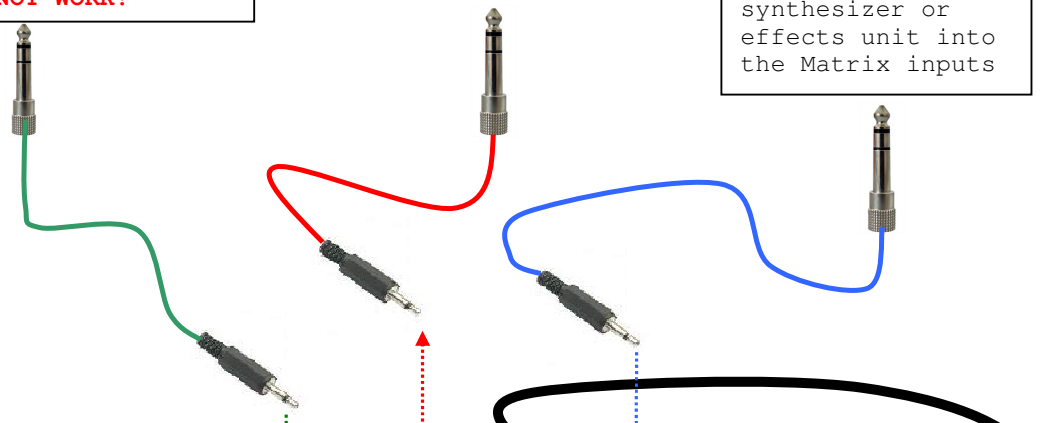
The Synthi VCS3 (mk2) Matrix Interface Module

Same as AKS unit but in Custom built Polished Afrormosia hardwood case to match the VCS3 styling.

Connect to any VCS3 jack socket for common ground
IMPORTANT! DO NOT FORGET TO CONNECT THIS OTHERWISE UNIT WILL NOT WORK!

Output signals **from** Matrix to external modular synthesizer effects unit etc.

Signals **from** external modular synthesizer or effects unit into the Matrix inputs



Connects to VCS3 (mk2) via presto socket

Using the VCS3(mk2)Matrix Interface Module

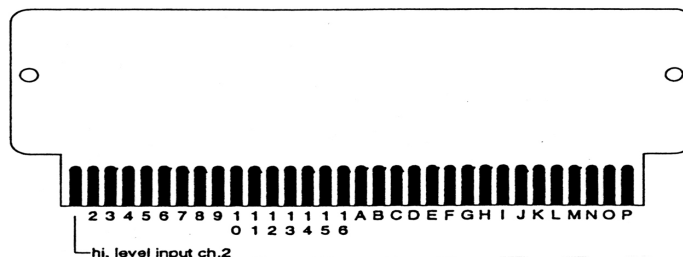
This unit is functionally identical to a similar unit I designed for interfacing to the Synthi AKS. This one however is built into a cool looking polished afrormosia hardwood case. This is exactly the same wood as used on the VCS3 (mk1 or mk2). The front panel is cnc engraved satin anodised silver that complements that of the silver panelled VCS3 mk2's.

Its a complete interface unit for the VCS3(mk2) Matrix...or in other words a 'breakout' box whereby the row/column signals of the Matrix are taken out to 3.5mm jack sockets. This allows powerful interfacing options of the VCS3 with an external modular synthesizer like eg Doepfer-Eurorack and/or external effects racks etc*.

Note that VCS3 mk1's don't have a presto connector unless it has been added as a mod. Therefore this unit is designed only for use with the VCS3(mk2) with a prestopatch connector (some mk2's from the 'Datanomics' period didnt come with them fitted). The panel layout also reflects the mk2 matrix layout which was different from that on the mk1.

The front panel has faithful reproduction of all the various signals and inputs of the 16 rows and 16 columns of the VCS3(mk2) matrix. The left hand column are all the 'sources' and 'treatments' from the Matrix (oscillators, filter, envelope, trapezoid outputs etc) and the right hand column has all the various control/signal inputs of the VCS3. The ordering/labelling is exactly the same as on the VCS3(mk2) Matrix, the only difference is that instead of **Output Ch1** as labelling the first jack socket at the top left column of jacks, it is **High level Input ch2**. This allows an external input to be fed into the matrix other than the through the usual Input ch1 and Input ch2 1/4" sockets on the VCS3 itself.

The module connects to the VCS3(mk2) via the presto-socket. Here is the pin numbering of the 32 way edge contact pcb that inserts into this socket (it's the same pin assignment as found on original EMS 'prestopatches')



All the signal/control inputs (right hand column of jacks) have 3k series resistors connected internally so taking signals in/out of the matrix using standard 3.5mm mono jack plug cables via this breakout box gives the similar attenuation as inserting standard matrix 2k7 resistor pins.

Connection to external synthesizers etc is via standard jackplug leads (ie with signal at the 'tip' of the plug) with 3.5mm mono jackplugs used to connect to the interface unit. These connections also join the ground of the external equipment to Synthi ground which is important. Patches can be a combination of those created with patchpins in the usual way and jackleads from the unit to route Synthi signals out to external equipment and send external signals (such as waveforms, envelopes, filter out, effect etc) back into the Matrix.

In this way the unit can act as a unique interface, leading to a powerful symbiosis of the VCS3 and external Modular Synthesizers/effects and signal processing equipment.

*** Note that it's not advisable to input external CV, signals etc into the Synthi that exceed the +12v to -9V range of its power rails. The interface unit has 3K impedance limiting resistors on all the inputs into the Synthi.**

Designed by Digitana,
St Albans, England, 2009

