



**D U A L  
M U L T I**

**BUILD INSTRUCTIONS**



### Introduction

Thank you for purchasing Dual Multi Kit.

Dual Multi is a dual buffered multiples.

Buffered multiples have advantages over passive multiples. Since passive multiples split the signal, in case of voltage-critical signal such as V/Oct to VCO, the pitch will vary from one output to the other. With buffered multiples each output will be a perfect copy of the input.

Because buffered mults isolate their outputs from the input, any faults or shorts present at the input will not pass through to a connected module.

### Contents of kit

Sourced

- 1- Dual Multi PCB (SMD presoldered) **x1**
- 2- Dual Multi Faceplate **x1**
- 3- Jack socket 3.5 mono **x8**
- 4- Pin header 2x5 **x1**
- 5- Power ribbon cable **x1** optional

### Warranty

BLACK NOISE warrants the contents of this kit to be free of defects in materials or workmanship and to be conform with the specifications at the time of shipment for a period of two years from the date of purchase.

We do not warrant, and we do not repair or take in modules to troubleshoot end-user DIY build faults or second hand DIY products.

BLACK NOISE cannot be held responsible for any damage caused by one of our DIY kits and resulting from an end-user DIY build faults.

If you encounter problems in the assembly you can contact us at: [contact@blacknoisemodular.com](mailto:contact@blacknoisemodular.com)

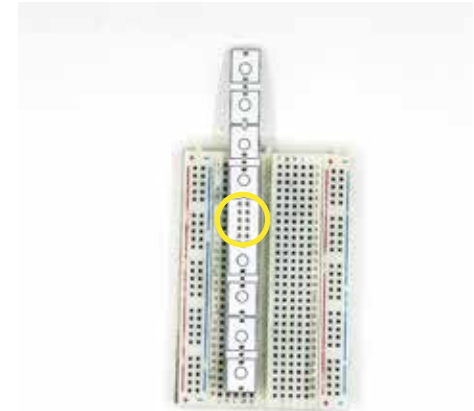


### 01 Solder the pin-header

To make soldering of the connector easier, start by soldering two opposite pins then solder the rest of the pins.

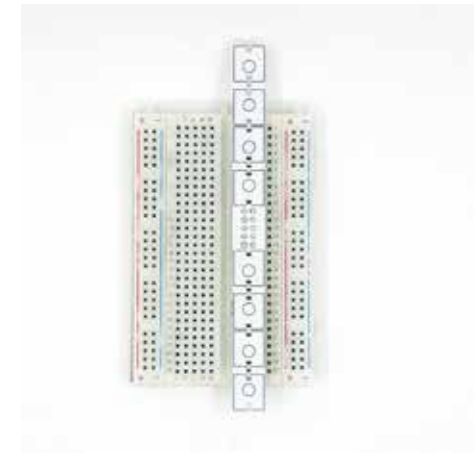


you can use a breadboard to hold the connector while you solder it.



### 02 Clean the PCB

Clean flux residue around the pin-header with isopropyl alcohol.





### 03 Place the jack connectors

Install the jack connectors.  
Before placing the jacks make sure that none of the legs of the sockets are bent then place the them.  
don't solder them yet.



### 04 Place the faceplate

Place the faceplate. To make sure of the orientation with the PCB, look at the power connector. The black line below the connector indicates not only -12V but also the bottom of the PCB. Once the faceplate placed screw the nuts on the jack connectors.



### 05 Solder the jack connectors

turn the PCB over and solder the jack connectors. Make sure the connectors are flush against the PCB before soldering them.

Once all the components are soldered, check the PCB to avoid any unsoldered pads, solder-bridges etc.



### 06 Check your module

Set your multimeter to "continuity", connect one of the probe to one the the ground pin. Test +12V and -12V pins with the other probe.  
your multimeter should not ring, if it rings there is a short.





## 07 *Clean your module*

Clean the PCB of flux and solder residue using Isopropyl alcohol.

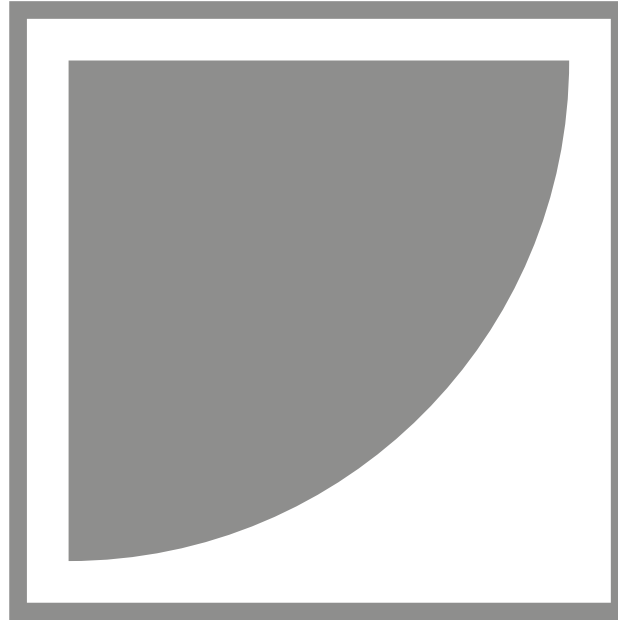


## 07 *Test your Dual Multi*

For more information on connecting to your rack and the possibilities of your Dual Multi consult the user manual accessible by scanning the QR code.



Scan the QR code to access the user manual



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