midi split

Thankyou for buying this kit! The information on this slip is the bare minimum you will need to build the project. You will find expanded information, including step by step build instructions with photographs, at https://github.com/hotchk155/MIDI-Splitter/wiki

The component designators used on the PCB are listed below

R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R21 - 220 Ohm (red-red-brown code) resistor. R1 through R12 are fitted "standing up" on the board and I recommend soldering them after the other components.

R13,R16,R17 – 1 kOhm (brown-black-red code) resistor

R14,R15 – 1.5 kOhm (black-green-red code) resistor

C1 - 100nF ceramic (104 code) capacitor

The following components must be soldered the correct way around. Use the markings on the PCB for orientation or check the above link if in doubt. All are soldered to the top side of the PCB.

Q1 - 2N3906 general purpose PNP transistor

C3 – 4.7uF electrolytic capacitor

D1 - 1N4148 small signal diode

IC1 - 4050 hex non-inverting buffer (DIL16) with socket

IC2 - 6N138 Opto Coupler (DIL8) with socket

CN2 - Mini USB connector

Solder the IC sockets before fitting ICs. Check orientation of pin 1 notch/dimple with markings on PCB)

The following LEDs are fitted close to the mini USB socket

POWER (left of socket) - Standard brightness RED LED

ACTIVITY (right of socket) - High brightness BLUE LED

Solder the seven MIDI sockets last and make sure that they are fitted flush to the board. This is important to ensure the solder joints to the sockets do not get strained and damaged in use.

Use the machine screws, nylon standoffs and nuts to attach the acrylic base plate to the PCB. Attach the self-adhesive rubber feet to the userside of the base plate.

I hope you find this kit useful. If you have any problems please contact me at the following email sixtyfourpixels@gmail.com or via the site where you ordered the kit

midi split is an open hardware project. All input and feedback is welcome

Cheers,
Jason Hotchk155

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