

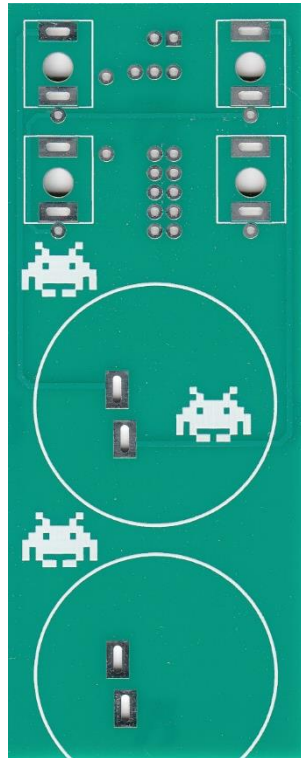
# FREQUENCY CENTRAL

Build documentation for:

## ASTEROIDS

2 x arcade style performance buttons which can be used output 5V gates, or to pass audio/voltages

Front of PCB



Rear of PCB



You can use Asteroids in two different ways:

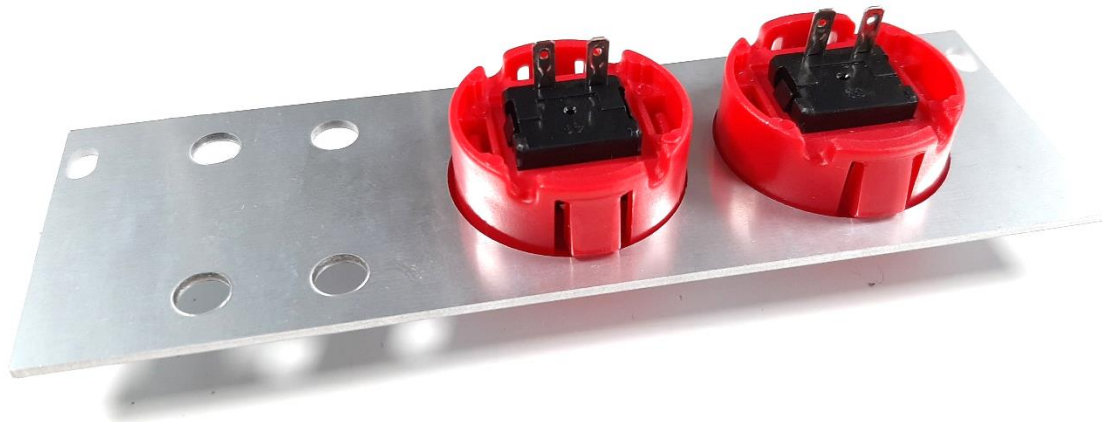
1. Gate generator using the two outputs. A 5V gate will be output when the relevant button is pressed.
2. Momentary manual actuator. Whatever is present at the relevant input will be output when the button is pressed.

You will notice that all of the components listed below are also hyperlinks to where I buy each specific part from. You can also use the hyperlinks to find out more about what each component looks like. If you want to know even more, [Google](#) is your friend.

<b>Bill of Materials</b>			
1K x 1	<a href="#">47uF electrolytic x 1</a>	<a href="#">78L05 x 1</a>	<a href="#">Big Buttons x 2</a>
<a href="#">All resistors ¼ watt metal film.</a>			<a href="#">3.5mm socket x 4</a>
			<a href="#">10 pin box header</a>

## Assembly

1. Insert 2 x arcade buttons through front panel, and line them up, as shown below:



2. Populate rear of PCB with resistor, 78L05, power header and capacitor (in that order)



3. Place the 4 x sockets onto the PCB, do not solder yet.
4. Present front panel with buttons to the PCB. Flip the assembly over and solder the 4 x sockets and arcade buttons into place.

RDH 09/02/24

<http://www.frequencycentral.co.uk/>