

# BUILDING MULTOR

**MULTOR** is a module that can be assembled either as a dual passive multiple or as a dual OR gate. Follow the instructions depending on the option you choose.

## BOM:

- 8 diodes 1n4148 (OR GATE only)
- 2 resistors 10Kohms (OR GATE only)
- 10 jacks thonkiconn (<https://www.thonk.co.uk/shop/thonkiconn/>)

## OR GATE:

For the OR gate version, you will need to solder the diodes, the resistors, and the jacks. The diodes and resistors are installed on the back side of the PCB, while the jacks are installed on the front side of the PCB.

You will also need to cut jumpers JP1 to JP8 to build the OR gate version. Use a sharp utility knife (in good condition). (See photo: 'jumpers cut'). I recommend checking continuity with a multimeter.

Jumper JP9 is used to link section 1 and section 2. The output signal from section 1 can be normalized to input 1 of section 2. If you decide to link the two sections, simply solder-bridge the two pads of jumper JP9.

## PASSIVE MULT

For the passive MULT version, unlike the OR gate version, only the jacks need to be installed.

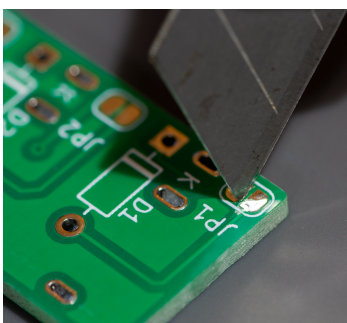
## JACK INSTALLATION:

**WARNING:** Depending on the option you choose, the jacks are not installed on the same side of the PCB. There is a marking in the center of the PCB indicating which side to use:

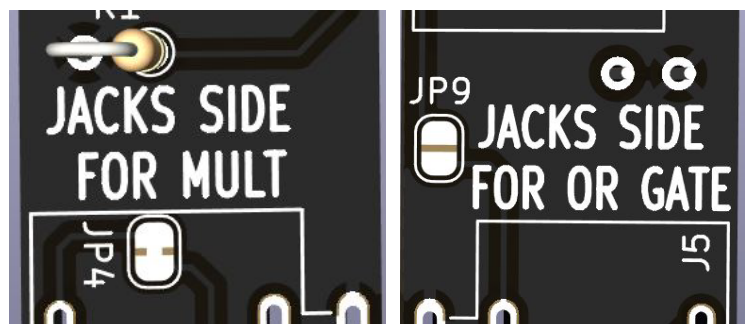
for the OR gate option: "jacks side for or gate"

for the MULT option: "jacks side for mult"

To solder the jacks, place them in their respective positions without soldering them first, then fit the front panel and tighten the nuts on at least two jacks. Next, while holding the front panel / jacks / PCB assembly together, solder the jacks with tightened nuts to secure the whole assembly. Then solder the remaining jacks.



jumpers cut



jacks side