NewFord NFM-02 Buffered Multiple

Assembly instructions

NewFord NFM-02 Buffered Multiple

List of components

Description	Quantity	Location
Front face	1	
Front PCB (NFM-02a)	1	Front circuit
3.5mm mono jack	8	
Jack washer	8	
Jack nut	8	
17-pin angled connector	1	
Rear PCB (NFM-02b)	1	Back circuit
0.4W 1% 100 Ohms resistor	6	
0.4W 1% 100 kOhms resistor	2	
1/4W 5% 10 Ohms Resistor	2	
Radial Chemical Capacitor 10uF / 16V	2	
100nF ceramic capacitor	6	
Diode SB140	2	
14-pin integrated circuit socket	2	
TL084 integrated circuit	2	
16-pin male connector	1	

Necessary tools

- Soldering iron
- Welding
- Flat pliers
- Cutting pliers
- 8mm nut wrench (or pliers)

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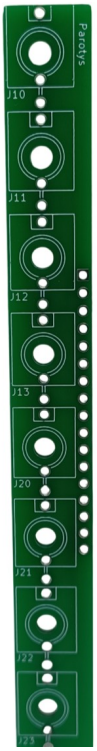
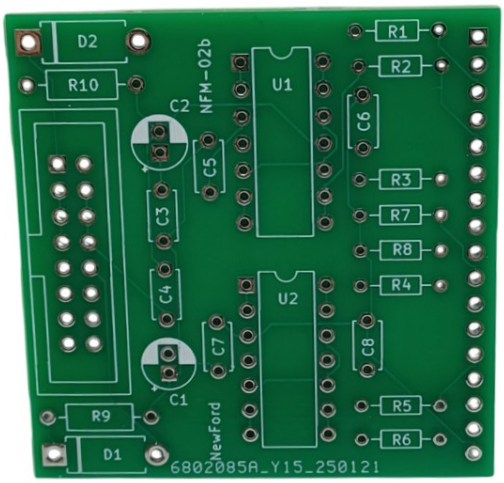
Two circuit boards (PCB) are required.



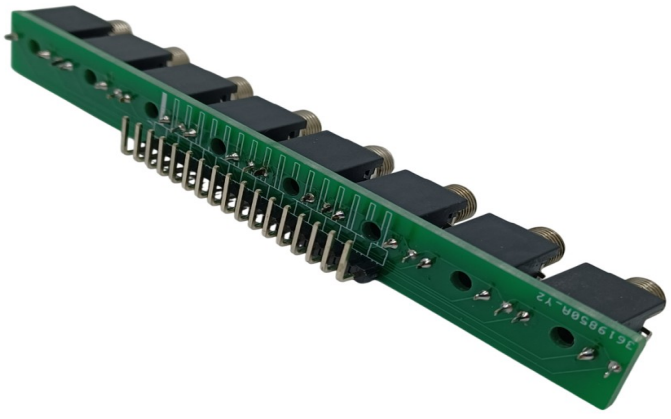
Front PCB



Back PCB

Let's start with the front circuit board:

- Insert the 8 jacks into the front of the circuit board.
- Insert the front panel so that the jacks are correctly positioned, solder them and then remove the front panel.
- Insert the shorter pins of the 17-pin connector into the back of the PCB, with the longer pins facing inward.
  Solder it, taking care to keep the long pins parallel to the circuit board. It should look like this picture:



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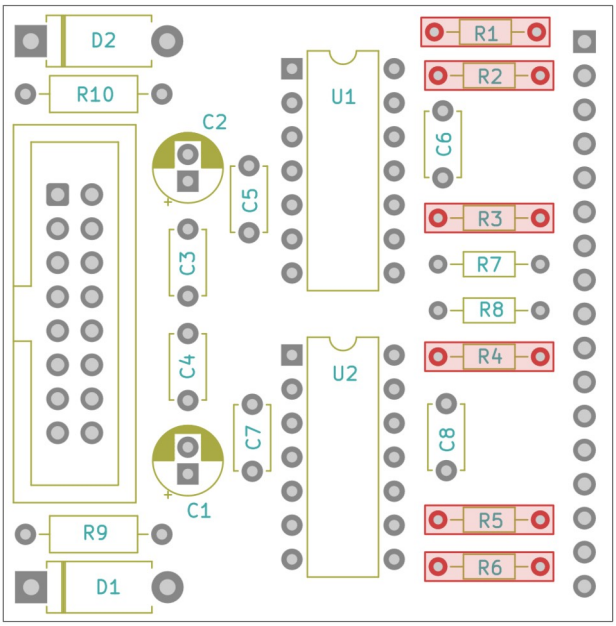
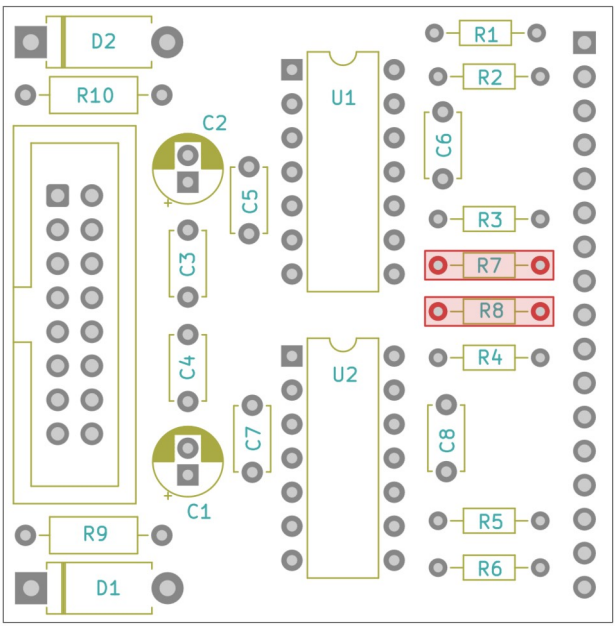
Now let's continue with the rear circuit board:

- Identify the 6 100 Ohm 1% resistors and solder them to the locations in red.



- Identify the 2 100 kOhm 1% resistors and solder them.



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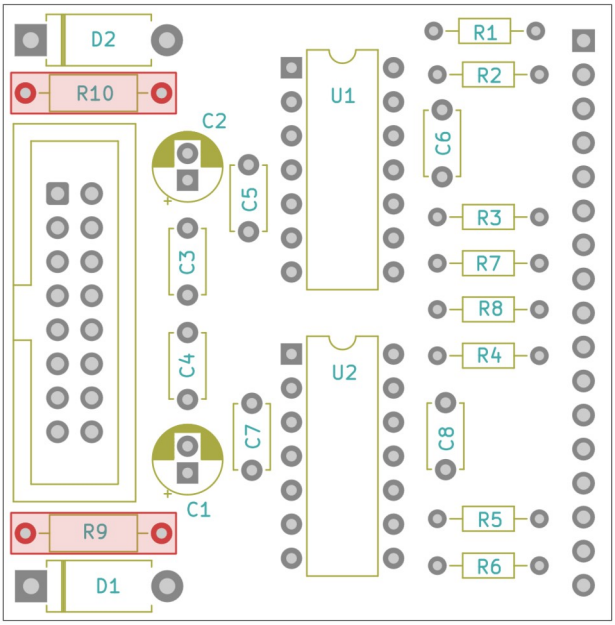
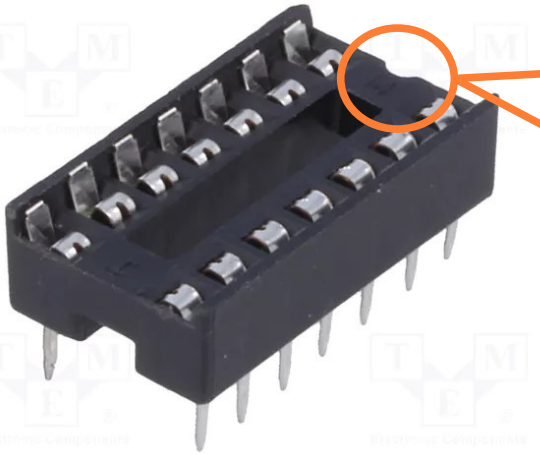
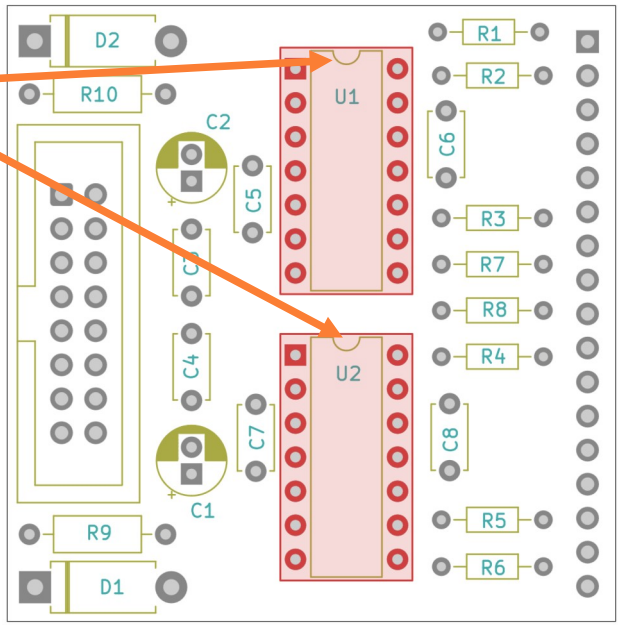
- We now continue with the 2 10 Ohm 5% resistors.



- Next, solder the two IC sockets. Pay careful attention to their orientation; this will help position the ICs correctly.





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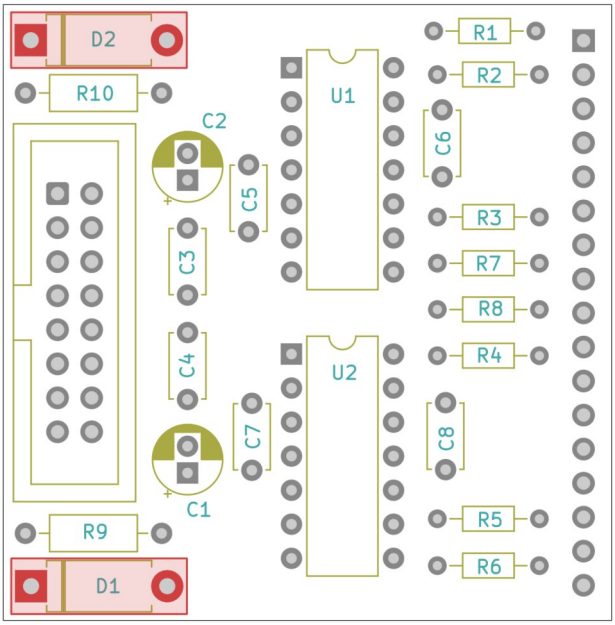
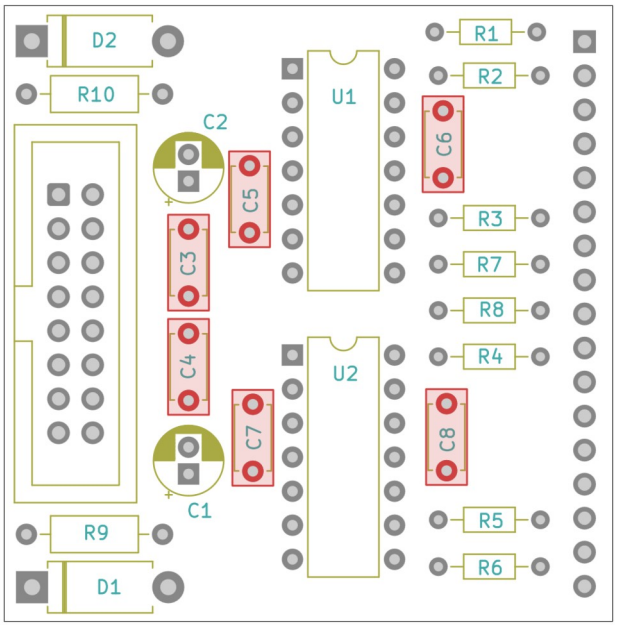
- Identify and solder the 2 SB140 diodes, paying attention to their orientation.



- Then solder the 6 100nF capacitors.



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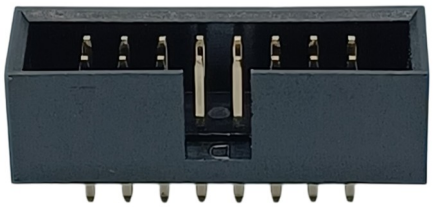
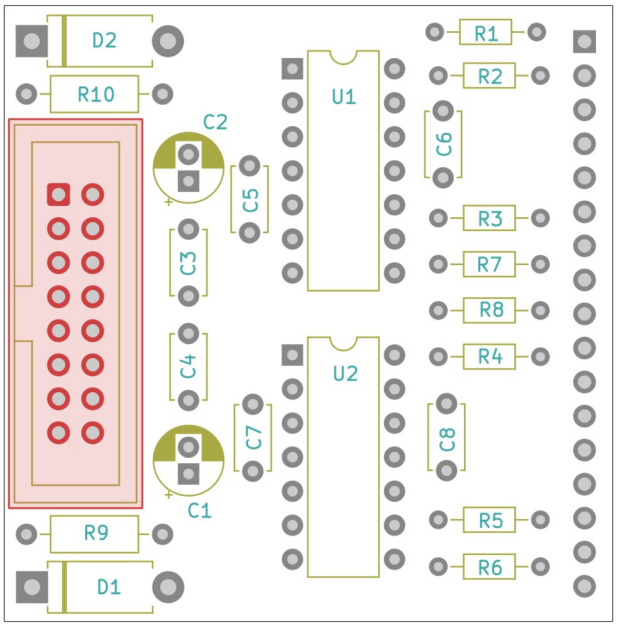
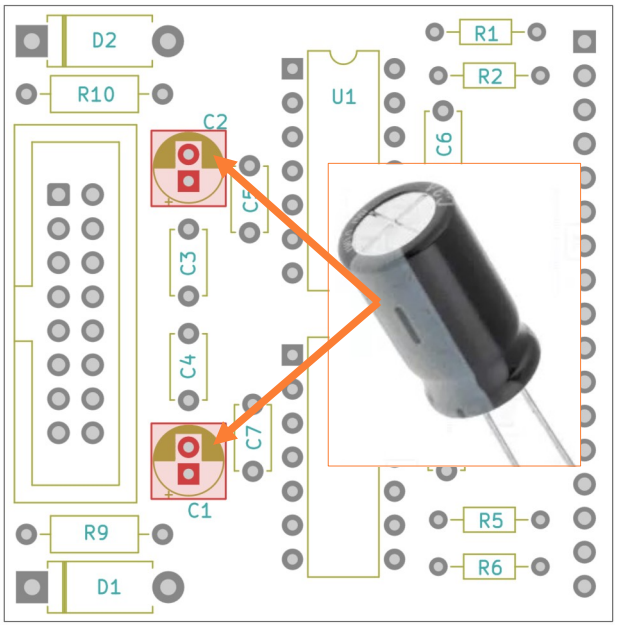
- Now solder the 16-pin connector. Be careful with its orientation; the cutout is towards the edge of the circuit board.





- Identify and solder the two 100 µF capacitors, paying attention to their orientation. The large white stripe indicates the negative polarity, which corresponds to the white mark on the circuit board.



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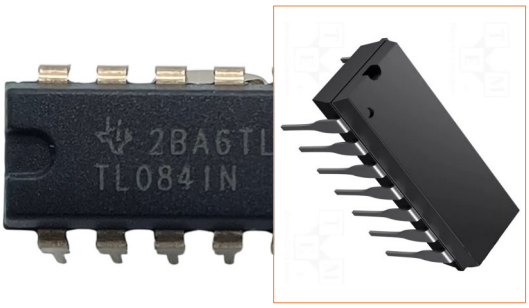
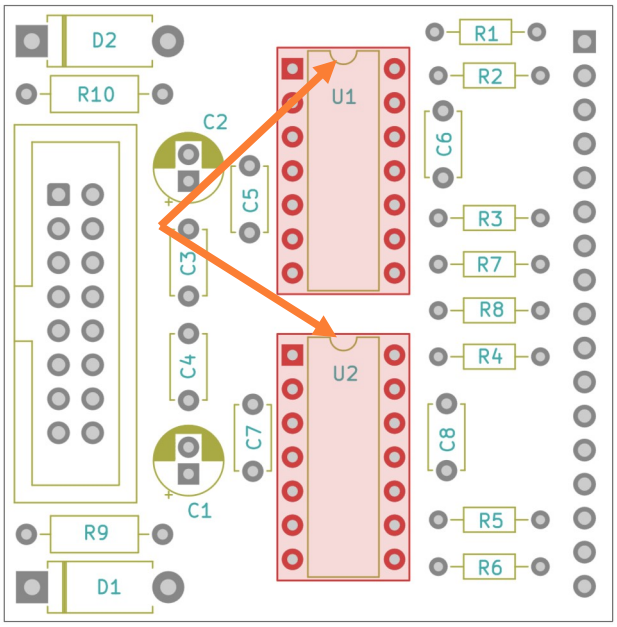
- We can now insert the 2 TL084 integrated circuits onto their support, ensuring their orientation is correct.





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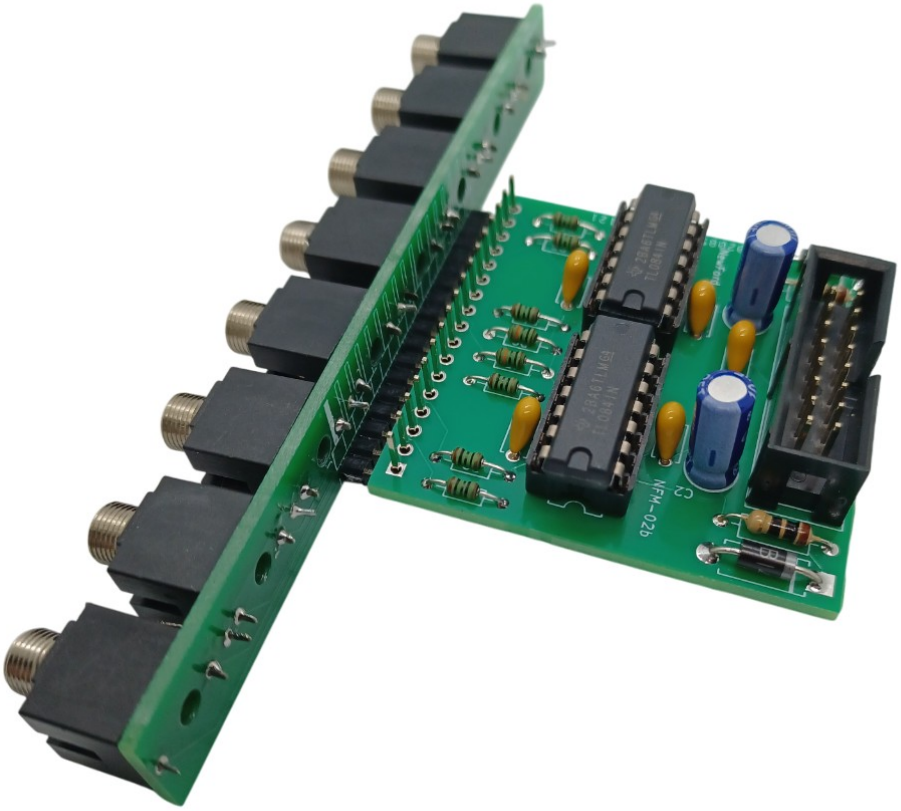
Final assembly

- Insert the back PCB onto the front PCB as below.



- Solder a first pin, check that the 2 circuits are perpendicular and correct if necessary.
- Then solder the remaining pins.
- Place the front panel in place and insert the washers onto each of the jacks.
- Put the nuts on and tighten them.

Settings

No adjustments are required, you can enjoy your module straight away.