

NewFord NFM-03 Fixed Mixer



Assembly instructions

NewFord NFM-03 Fixed Mixer

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-03b)	1	Back circuit
0,4W 1% 1 kOhms resistor	6	
0,4W 1% 100 kOhms resistor	19	
1/4W 5% 10 Ohms resistor	2	
10uF / 16V radial chemical capacitor	2	
100pF ceramic capacitor	4	
100nF ceramic capacitor	4	
SB140 diode	2	
14-pin integrated circuit socket	1	
TL084 integrated circuit	1	
16-pin male connector	1	

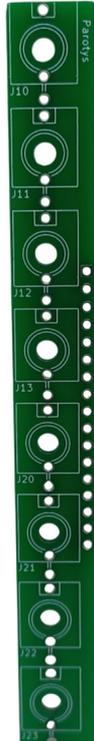
Necessary tools

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

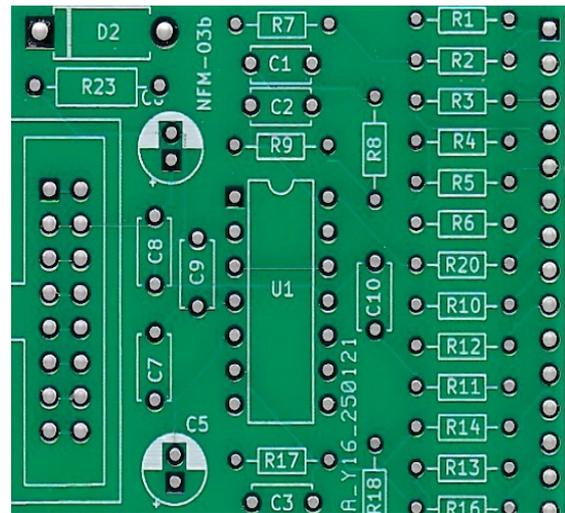
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Assembly

Two circuit boards (PCB) are required.



Front PCB



Rear PCB

Let's start with the front circuit board:

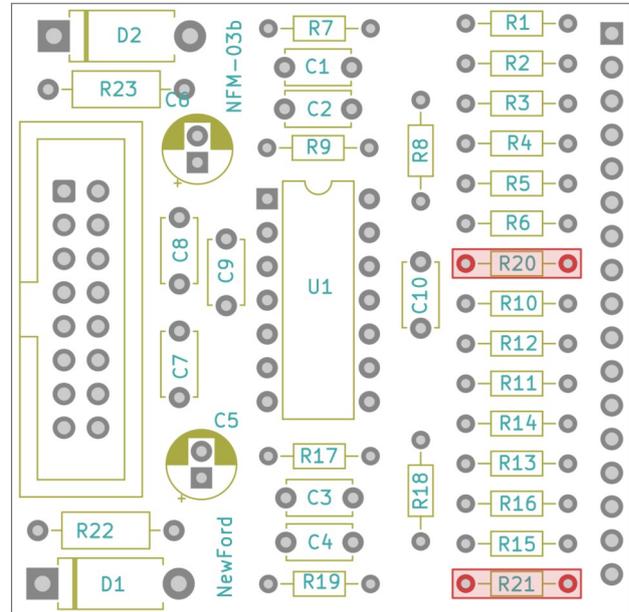
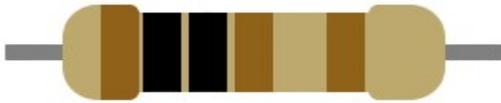
- Insert the 8 jacks into the front of the circuit board.
- Insert the front panel so that the jacks are correctly positioned, solder them and then remove the front panel.
- Insert the shorter pins of the 17-pin connector into the back of the PCB, with the longer pins facing inward.
Solder it, taking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



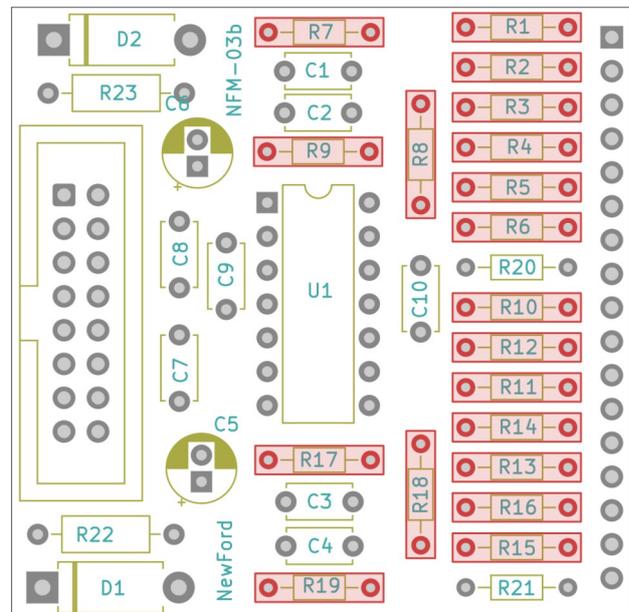
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Now let's continue with the rear circuit board:

- Identify the 2 1 kOhms 1% resistors and solder them to the locations in red.

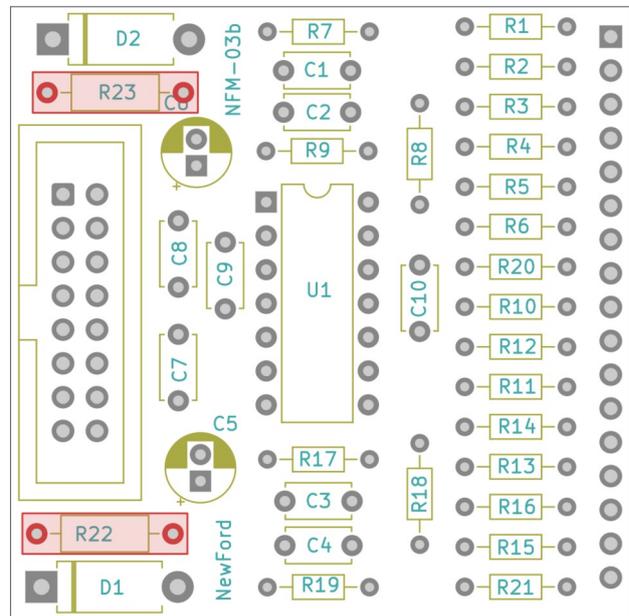
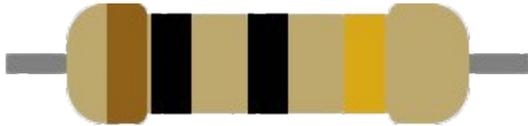


- Identify the 19 100 kOhms 1% resistors and solder them.

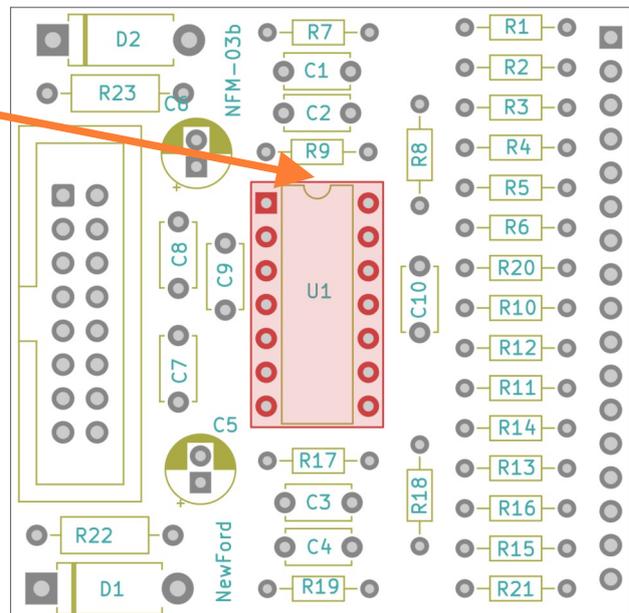
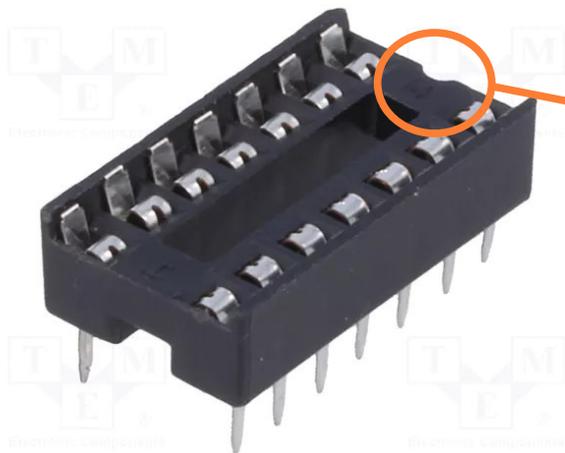


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- We now continue with the 2 10 Ohm 5% resistors.

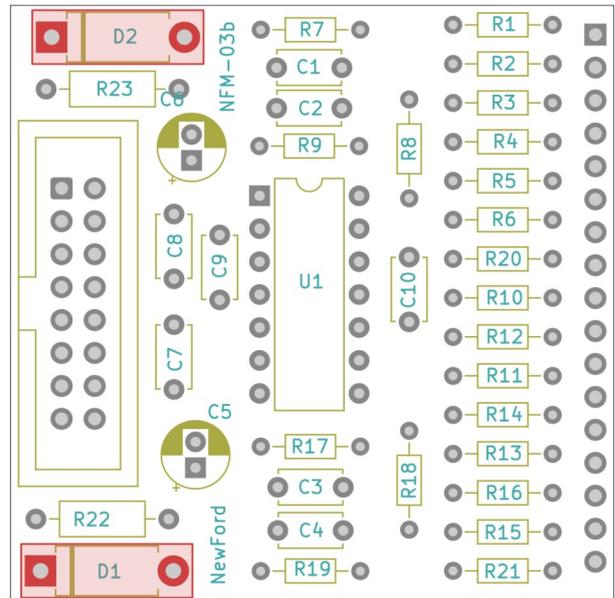


- Next, solder the IC socket. Pay careful attention to its orientation; this will help position the IC correctly.

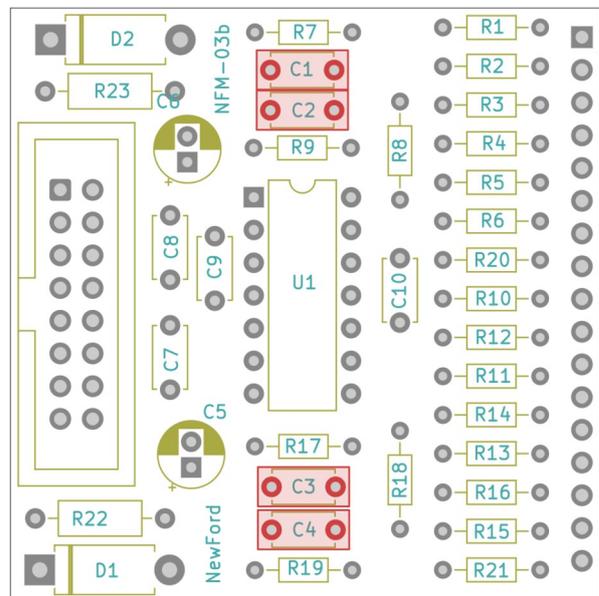


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- Identify and solder the 2 SB140 diodes, paying attention to their orientation.

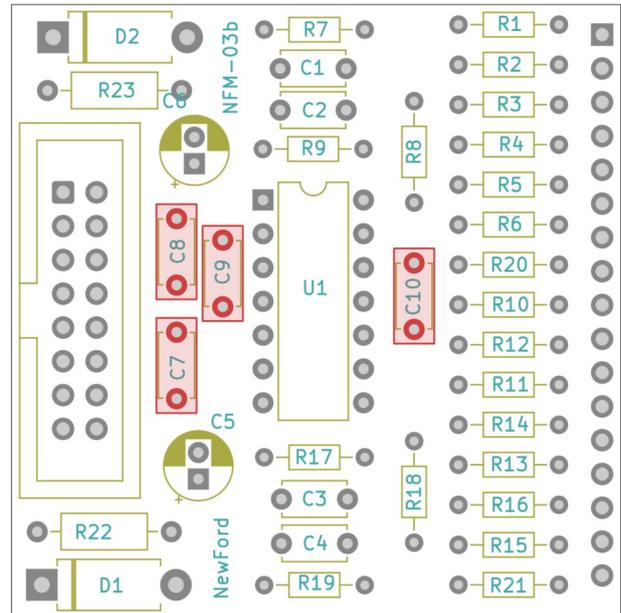


- Solder the 4 100pF capacitors.

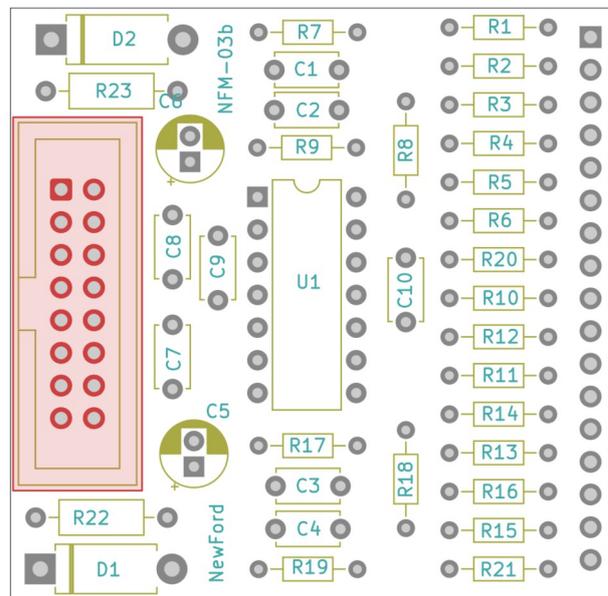


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- Then solder the 4 100nF capacitors.

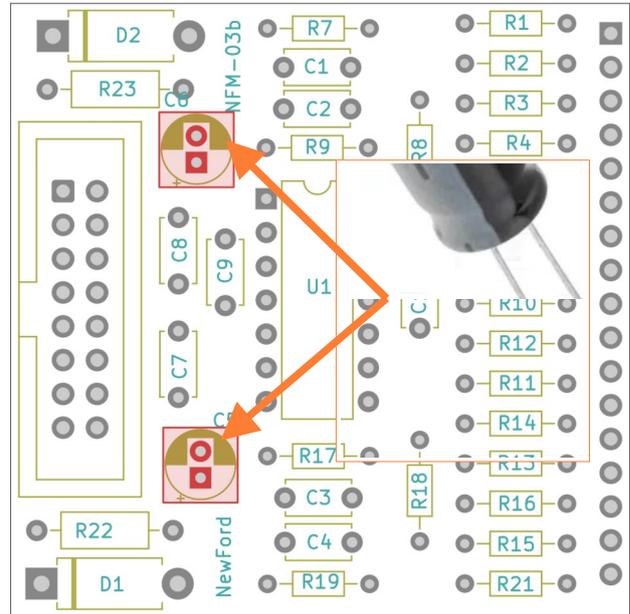


- Now solder the 16-pin connector. Be careful with its orientation; the cutout is towards the edge of the circuit board.

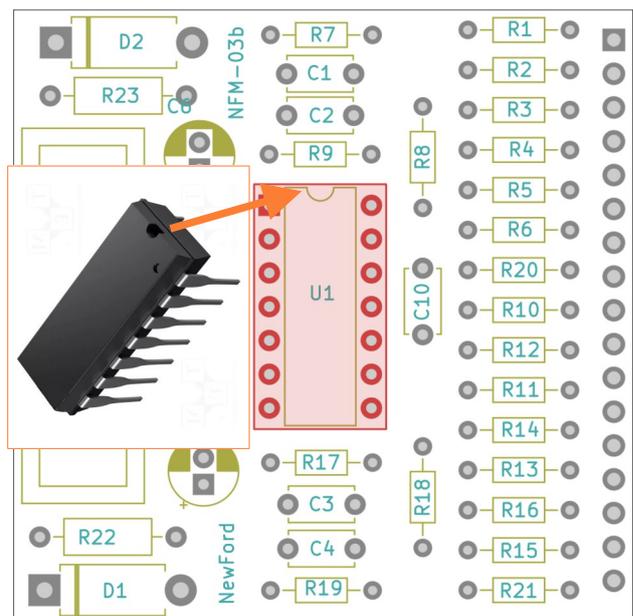


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- Identify and solder the two 10 μF capacitors, paying attention to their orientation. The large white stripe indicates the negative polarity, which corresponds to the white mark on the circuit board.



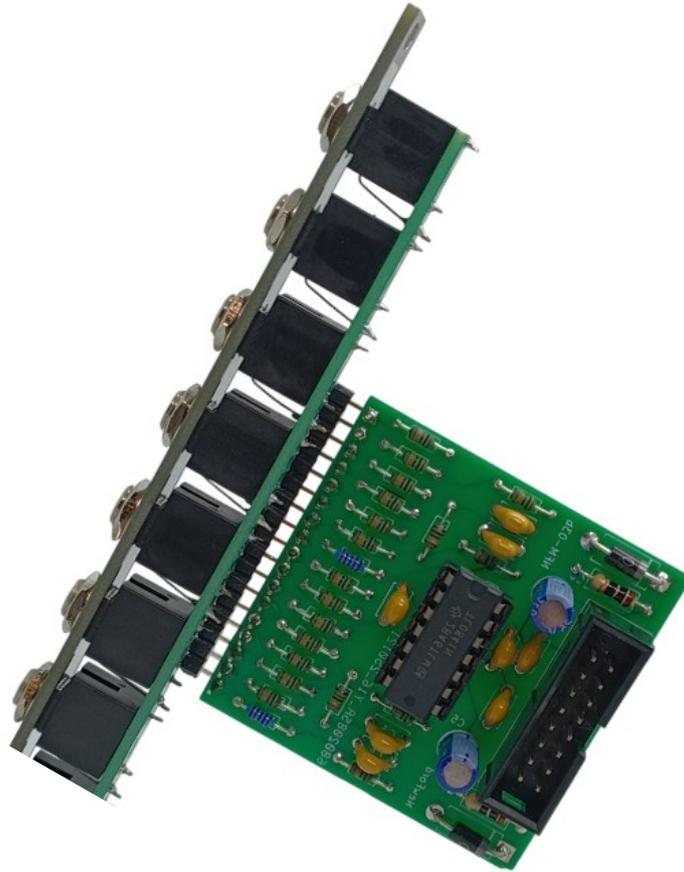
- We can now insert the TL084 integrated circuit onto its support, ensuring its orientation is correct.



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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.