

NewFord NFM-09 Linear Mixer



Assembly instructions

NewFord NFM-09 Linear Mixer

Liste des composants

Description	Quantity	Location
Front face	1	Front circuit
Front PCB (NFM-09a)	1	
1/4W 5% 100 kOhms resistor	4	
1/4W 5% 1 kOhms resistor	2	
4-pins female connector	3	
3,5mm mono jack + washer + nut	4	
100 kOhms potentiometer + washer + nut	4	
Knob	4	
Rear PCB (NFM-09b)	1	Back circuit
1/4W 5% 100 kOhms resistor	3	
1/4W 5% 10 Ohms resistor	2	
10uF / 16V radial chemical capacitor	2	
100pF ceramic capacitor	2	
100nF ceramic capacitor	4	
470nF polyester capacitor	4	
SB140 diode	2	
8-pin integrated circuit socket	1	
TL072 integrated circuit	1	
4-switches DIP block	1	
4-pins male connector	3	
16-pin male connector	1	

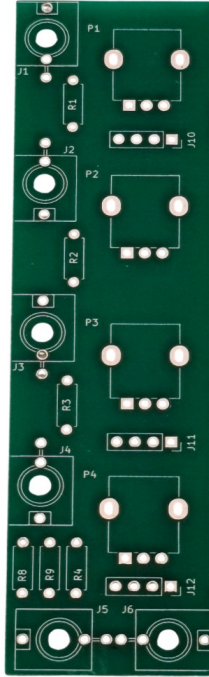
Necessary tools

- Soldering iron
- Welding
- Flat pliers
- Cutting pliers
- 8mm and 10mm nut wrench (or pliers)

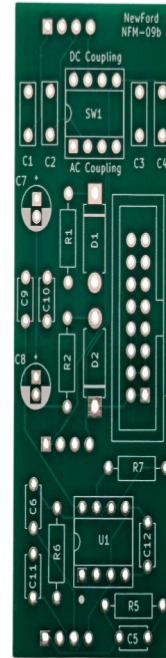
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Assembly

Two circuit boards (PCB) are required.



Front PCB

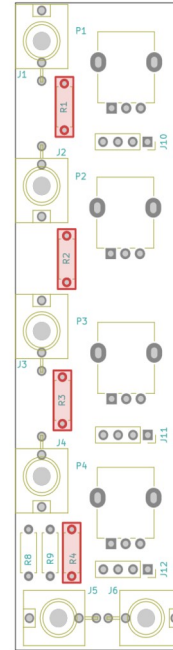


Rear PCB

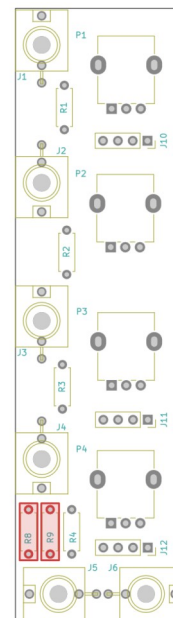
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Let's start with the **front** circuit board:

- Identify the 4 100 kOhms 5% resistors and solder them to the locations in red.

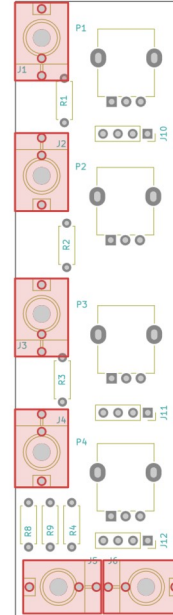
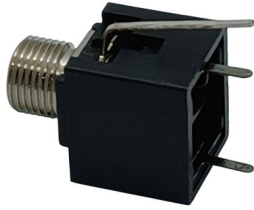


- Identify the 2 1 kOhms 5% resistors and solder them.

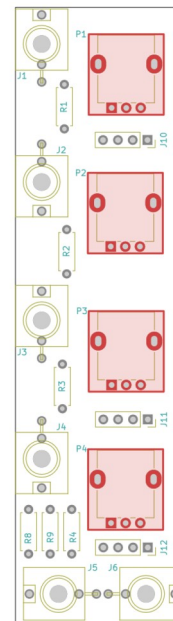


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- Insert the 6 jacks and solder them.

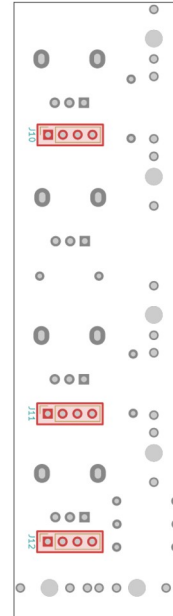


- Insert the 4 potentiometers and solder them.



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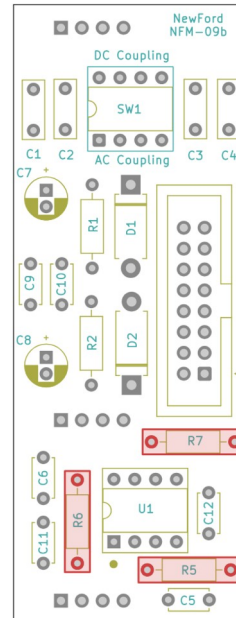
- Identify the 4-pin female connectors, solder them to the back of the circuit board, making sure to keep them perpendicular to it.



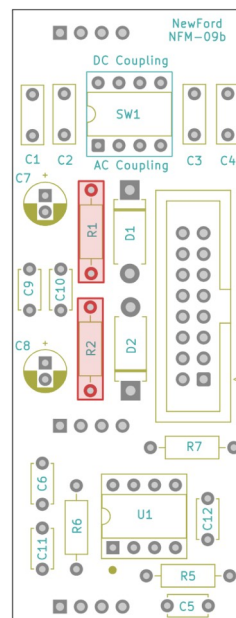
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Now let's continue with the **rear** circuit board:

- Identify the 3 100 kOhms 5% resistors and solder them to the locations in red.

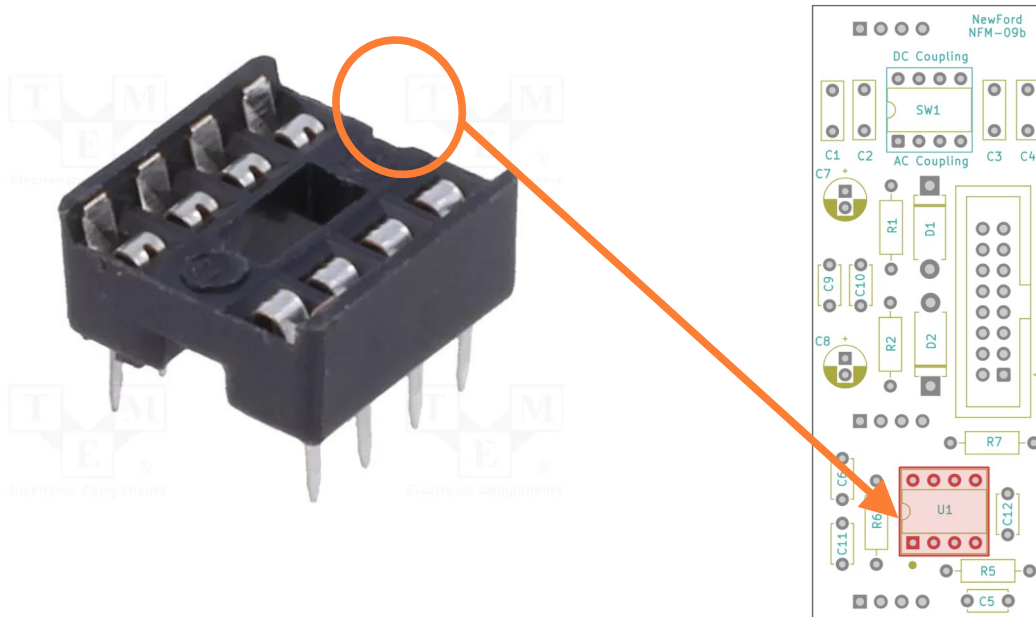


- We now continue with the 2 10 Ohm 5% resistors.

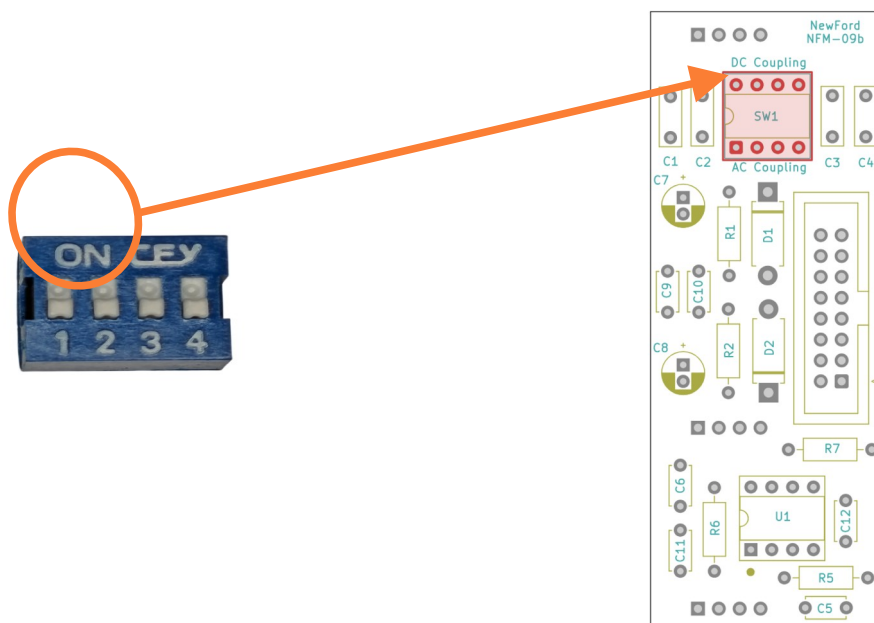


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- Next, solder the IC socket. Pay attention to its orientation; this will help position the IC correctly.

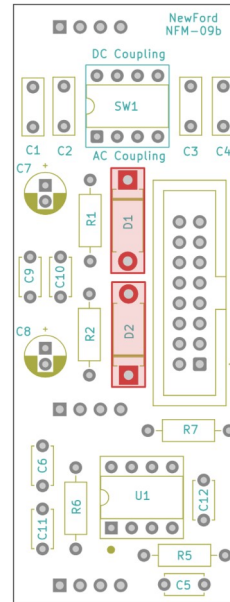


- Now solder the switch block. The "ON" marking should be facing the top of the circuit board.

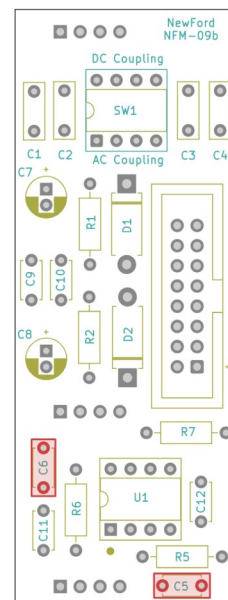


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- Identify and solder the 2 SB140 diodes, paying attention to their orientation.

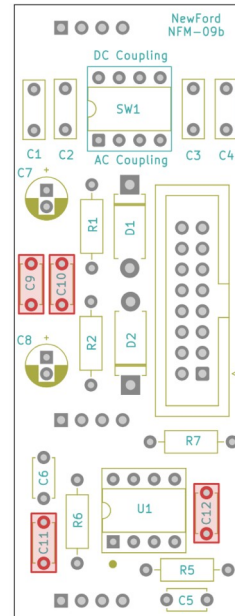


- Solder the 2 100pF capacitors.

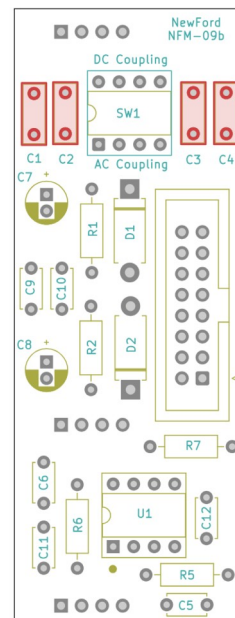


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- Then solder the 4 100nF capacitors.

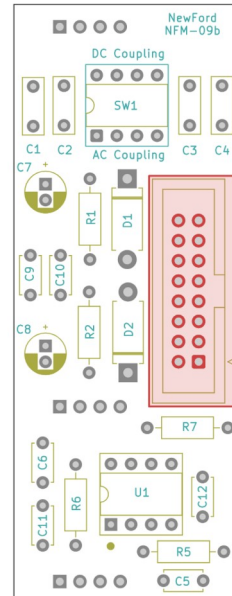
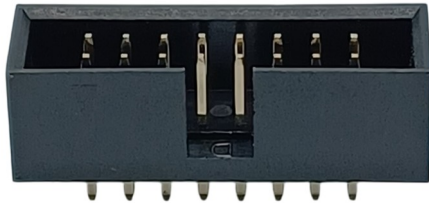


- Now solder the 4 470nF capacitors.

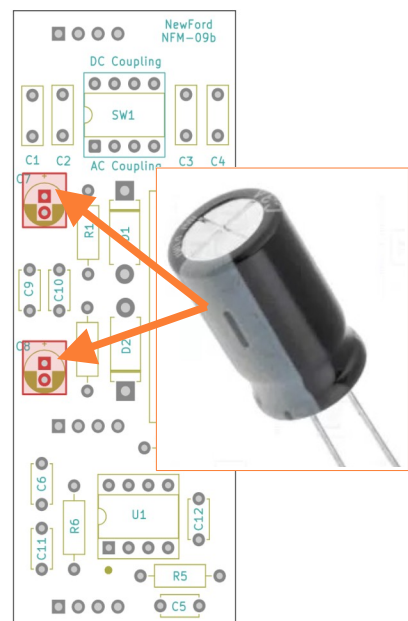


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- Now solder the 16-pin connector. Be careful with its orientation; the cutout is towards the edge of the circuit board.

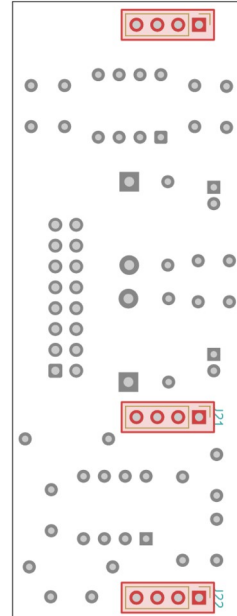


- Identify and solder the two 10 μF capacitors, paying attention to their orientation. The large white stripe indicates the negative polarity, which corresponds to the white mark on the circuit board.

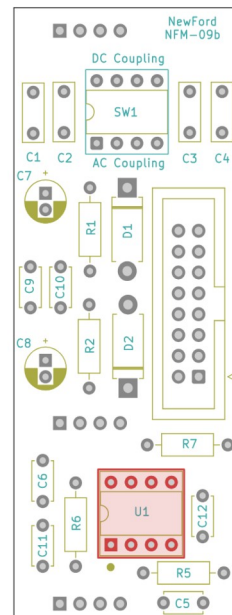


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- Identify the 4-pin male connectors, solder them to the back of the circuit board, making sure to keep them perpendicular to it.



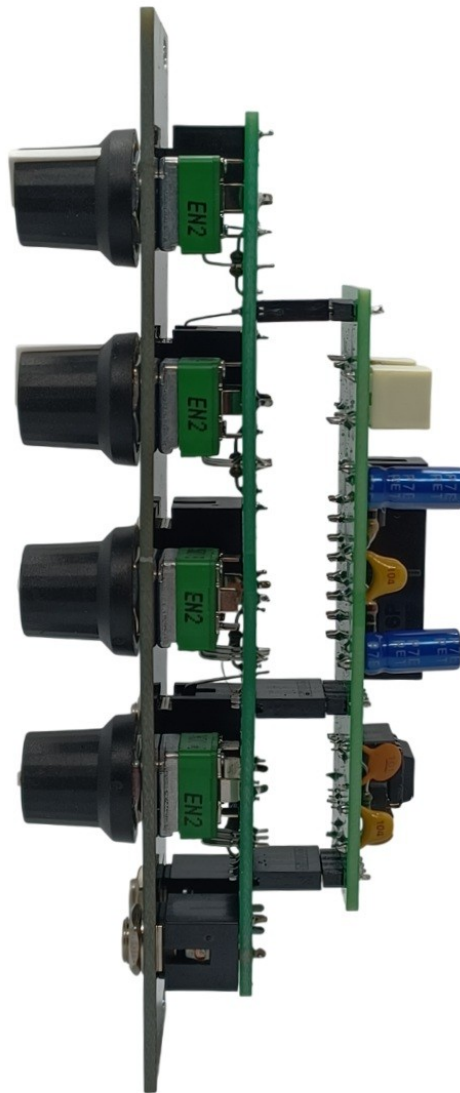
- We can now insert the TL072 integrated circuit onto its support, ensuring its orientation is correct.



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Final assembly

- Place the front panel in place and insert the washers onto each of the jacks and potentiometers.
- Put the nuts on and tighten them.
- Insert the knobs onto the potentiometers, taking care to align their index marks with the graduations on the front panel.
- Insert the rear circuit board onto the front circuit board as shown below.



Settings

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