



Assembly Guide

The MIDI Breakout board provides you with a MIDI interface for your favorite dev board.

LIBID.iT-

Support: http://ubld.it/midibo

Manual: v1.0

Kit Version: v1.0

Tool Checklist





We recommend the Hakko FX888 or similar iron with a chisel tip.

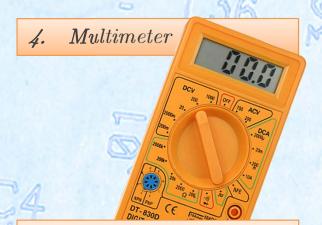
2. Wire Cutters

Small cutters for clipping excess wire leads after soldering.

3. Solder



Electronic solder is used for soldering parts to the PCB.



Multimeter for verifying component values and adjusting the circuit.

CAUTION

EYE PROTECTION
REQUIRED BEYOND
THIS POINT

BOM is short for Bill of Materials. Check each line item as you verify the required quantity of components.

Line	Designator	Description		Required	Kit Qty
1	D1	1N4148 Diode		1	1
2	Out, In	5 Pin MIDI Jack	(m)	2	2
3	tx rx + -	4 Pin Header (Optional)	or	0	2
4	R1,R2,R3,R4	220 Ohm Resistor		4	4
5	6n138	8 Pin Socket (Optional)	T. T. T.	0	1
6	6n138	6n138 IC		1	1

STEP 1: Check the BOM (continued)

Line	Designator	Description		Required	Kit Qty
7		PCB	Onto Onto Onto Onto Onto Onto Onto Onto	1	1

STEP 2: Inserting the first component

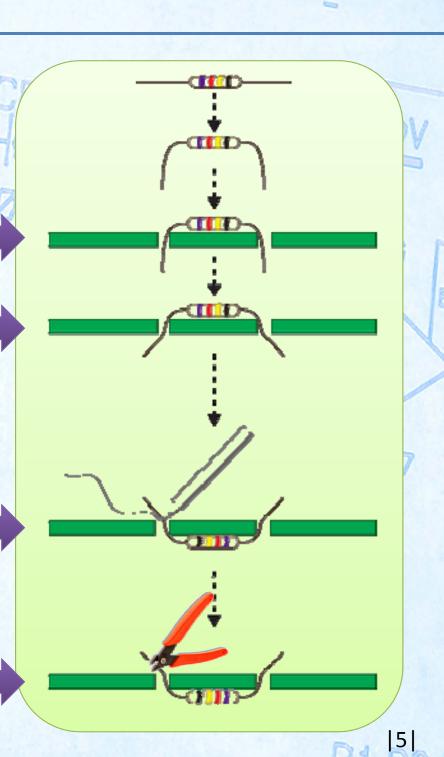
Before we locate the first component let's take a minute to review the proper way to insert and solder the components to your circuit board.

Insert the components into the circuit board.

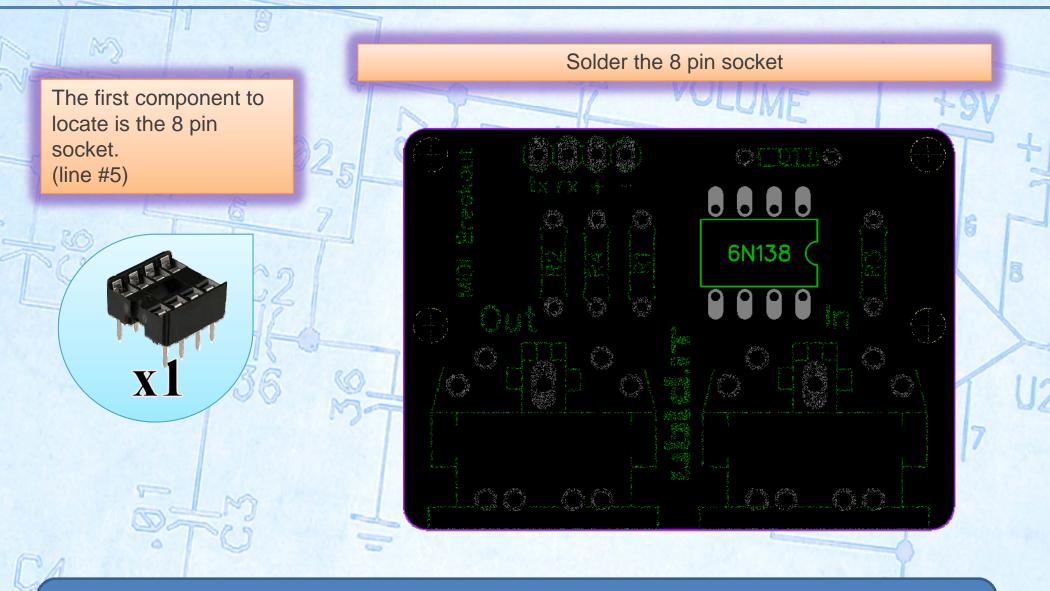
Bend the component leads to hold the component in place while soldering.

 $Flip\ the\ board\ and\ solder\ the\ component\ leads$.

Trim the component leads at the top of the solder joint.

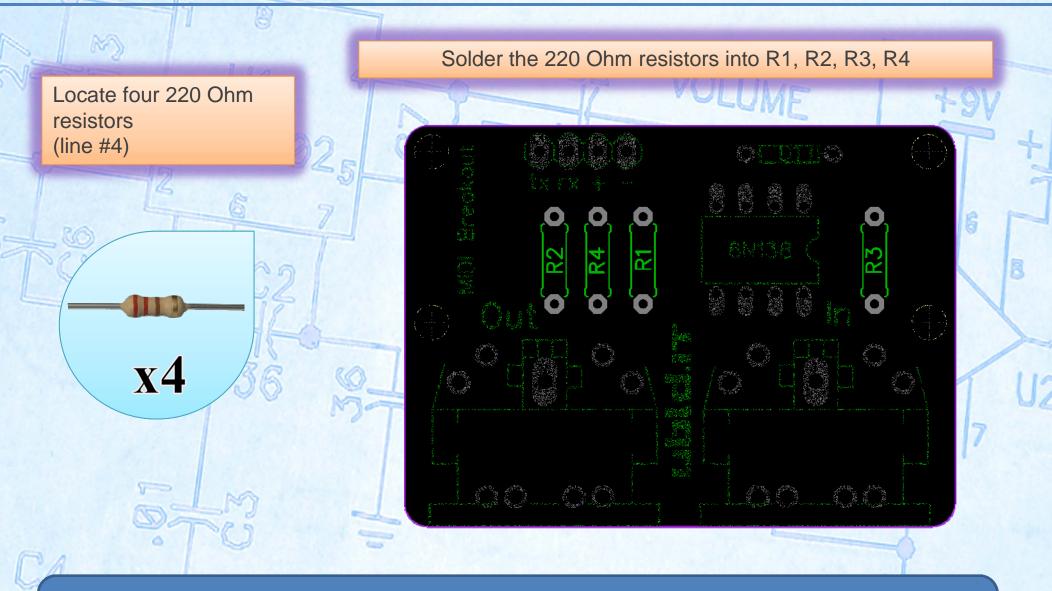


STEP 2b: Inserting the first component



Pay attention to the divot in the front of the socket, it is notched. This helps when you insert the IC to know the orientation. Although using the socket is recommended, you may solder the IC directly without the socket.

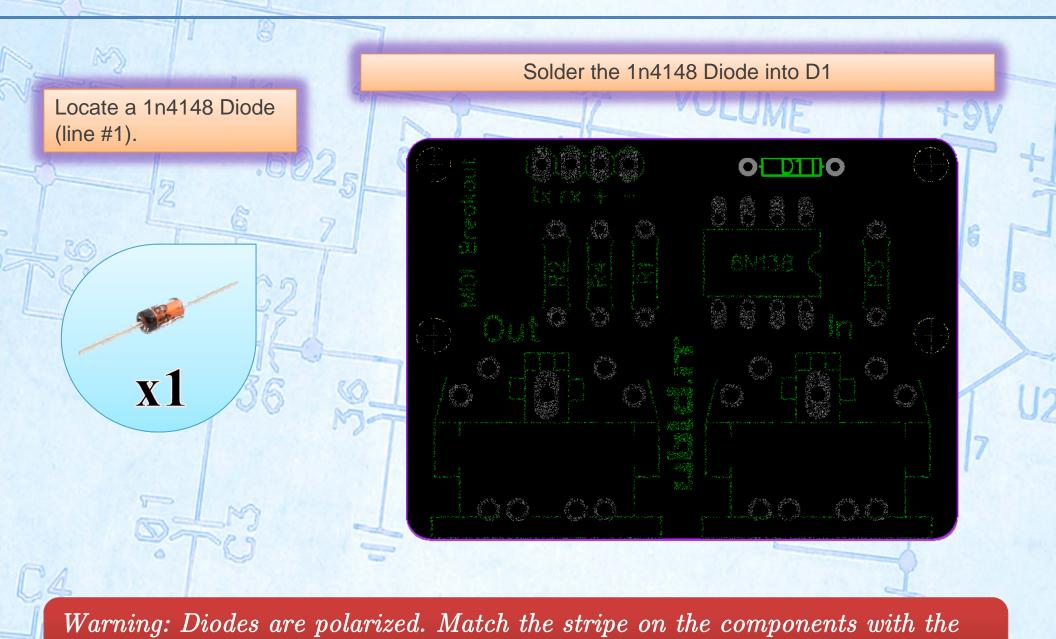
STEP 3: Insert the 220 Ohm Resistors



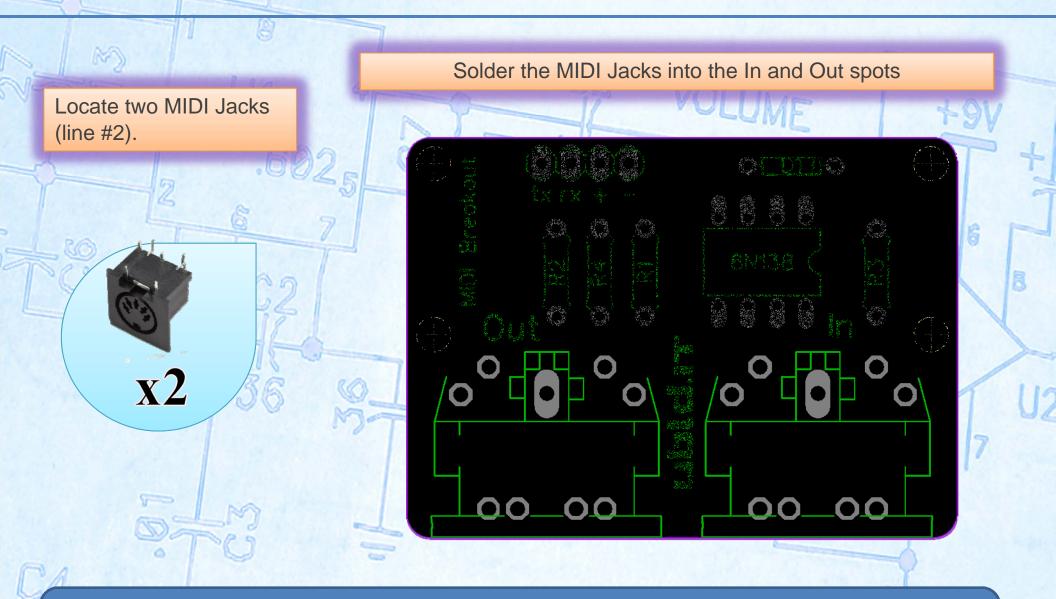
Take pride in your work. This is a show piece so make sure you take your time to bend all the components leads to 90 degree angles using needle nose pliers.

STEP 4: Insert the 1n4148 Diode

stripe on the silkscreen.



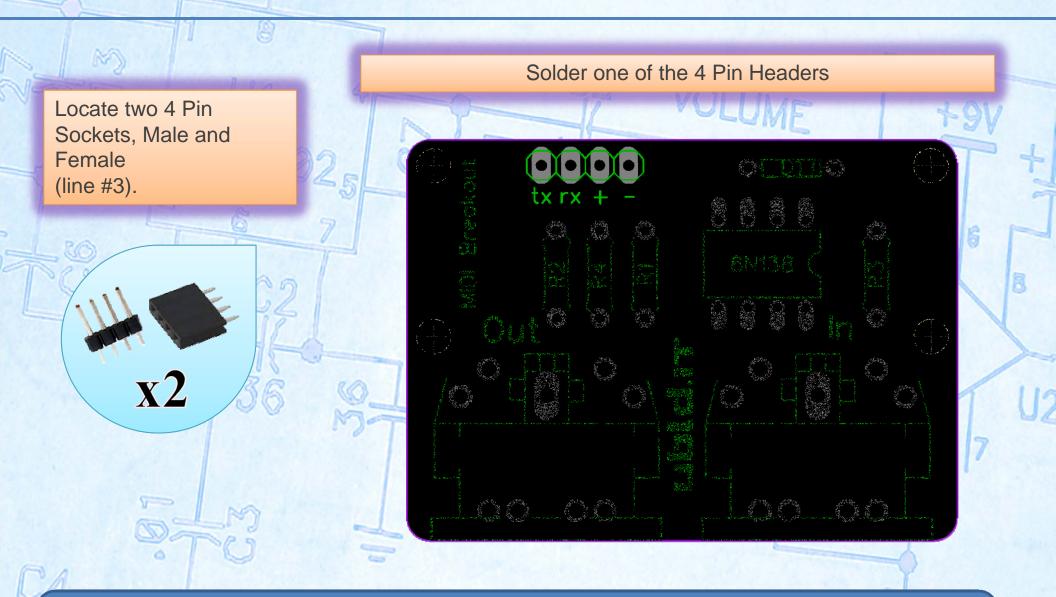
STEP 5: Insert the MIDI Jacks



For better looking solder joints use Kester #2331-ZX water soluble flux pen on every pad before applying solder. Flux removes oxidation and allows heat to transfer from your iron to the pad.

transfer from your iron to the pad.

STEP 6: Insert the 4 Pin Header



You have the option of using the Female Header, or the Male Header. Choose which one fits your preference or solder wires (not included) directly for a more permanent installation.



Your final assembly should look like this. Double check all polarized components.