Assembly Guide

Product name	DAW MidiController v3
Item No.	099-5001, 099-5002
Manufactor	DIY Music Gear

This guide will take you through the assembling of the **DAW MidiController v3**. Please check, that you have all the parts.

Item No.	Name	Quantity	Unit price	Price
004-0041	SPST Push Button	3		
006-0103	Box Type 1590BB	1		
009-0302	Waterslide Decal Printed (Clear)	1		
010-0450	USB 2.0 Cable 5m (Black)	1		
011-0500	LED Socket 3mm	1		
011-0511	LED 3mm (Red)	1		
012-0600	Rubber feet (Black)	4		
012-0630	Wire Strain Relief (Black)	1		
012-0660	Cable tie socket Set (Black)	1		
013-0701	Wire pack 100mm	1		
014-0800	Arduino Pro Micro	1		

You need some tools for the build. Most important is:

Solder Iron

Solder

Cutting tools

Desoldering Pump

Spiral Drills

Drill Machine

Step 1: The Enclosure

Drill the holes in the box

Tip: You can use a printed paper as template for the holes as shown. The graphics can be downloaded from the product page at: diymusicgear.dk

Tip: We recommend using a small drill first. Then drill to size with a spiral drill. The holes will end up perfectly circular without splinters.

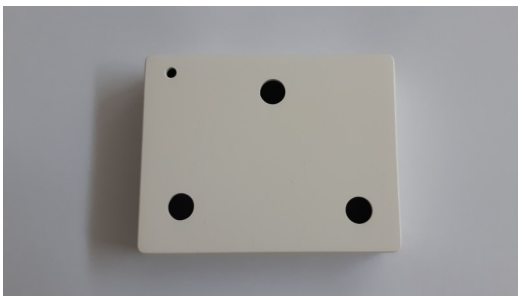
Hole sizes:

- Led: 6mm
- Footswitches: 12mm
- Usb-cable: 12mm

Spray paint the box with white paint.

Tip: First sand with steel wool or sandpaper and add a coat of primer.

Tip: We recommend using white radiator paint for an excellent finish. Add 6-8 thin coats of paint every 15 minutes. After the last coat , let the paint dry for at least 24 hours.



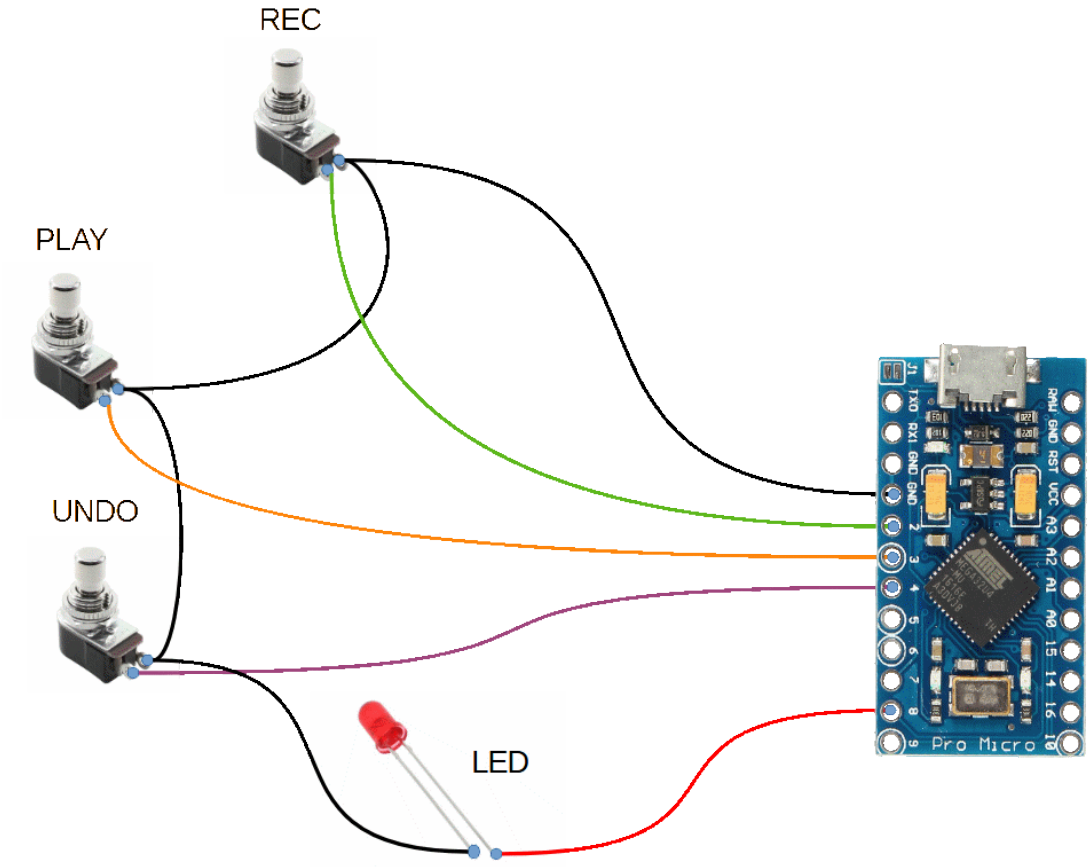
Apply waterslide decal to the top and buttom of the box.

Tip: Before applying the waterslide - spray the decal with a single thin coat of clear varnish. Let it dry for 24 hours. This will make the decal easier to handle later.

Tip: After applying the waterslide decal to the box, then clear out air bubbles and water. Don't overdo it. The decal a quite forgiving. Let it dry for 24 hours.

Tip: Finally spray a single coat of clear varnish on the box to seil the decal.

Step 2: Assemble the components



Point A	**Ponit B**
Arduino GND	SPST Push Button (REC) Pin 1
Arduino 2	SPST Push Button (REC) Pin 2
Arduino 3	SPST Push Button (PLAY) Pin 2
Arduino 4	SPST Push Button (UNDO) Pin 2
Arduino 8	LED +
SPST Push Button (REC) Pin 1	SPST Push Button (PLAY) Pin 1
SPST Push Button (PLAY) Pin 1	SPST Push Button (UNDO) Pin 1
SPST Push Button (UNDO) Pin 1	LED -

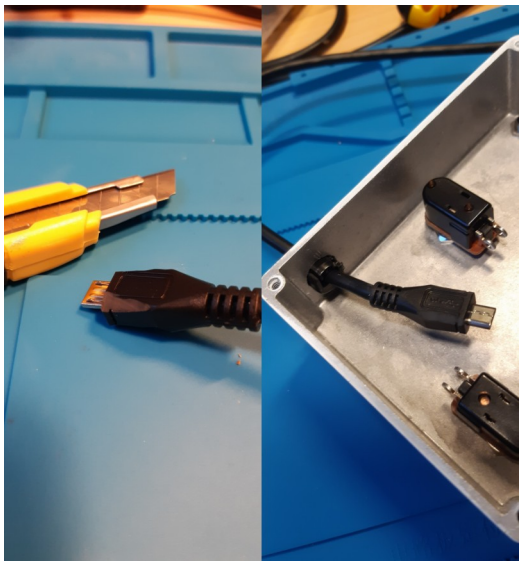
Step 3: Installation

The last step is fairly easy. Just install all the parts into the box like this:

Fit USB cable

Tip: To be able to fit the USB plug through the hole, you have to cut off a little of all the corners. Use a sharp knife

Tip: Use the fitting to make the cable fit into the hole. It's a little tricky, but you'll be able to do it.



Mount the Arduino and all the remaining components. Screw the lid on and stick on rubber feets.

The Arduino is deployed with all the software and ready to go.

Tip: Plug the USB connector into the Arduino. Use the Cable tie socket Set to mount it to the box

Congratulations, you're done.