

# Martin M1

## MIDI PCB Installation

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## 1. Introduction

The MIDI PCB is an optional accessory that can be installed in any M1 console.

A combined data and power connection is prepared on every M1 from the factory and the installation of the PCB will take about 15 minutes.

Before installation, save all important data from the controller to an external UBS flash drive.

Have the following tools ready:

- Torx T20 driver
- Torx T10 driver
- 3mm Hex driver

**Disconnect all cables from the controller, especially the IEC power connection.**

Before starting to work on the M1, discharge yourself against a grounded piece of metal to prevent and static electricity from damaging a component inside the M1.

## 2. Removing the front plate

Place the M1 on a hard and perfectly flat surface.

Remove 6x Torx T20 screws from the front and back of the controller



2x T20 below hand rest



4x T20 on the back of the M1

Loosen 4x 3mm Hex screws from the front plate. They are captive and stay attached. Do not unscrew them completely from the plate.



4x 3mm Hex

Carefully angle the screen backwards until it is parallel to the surface the M1 is placed on.



**Tilt back the touch screen**

Lift the surface out of the controller by about 20mm until the supporting metal structure is free. Move it towards the front of the controller slowly until it clears the touch screen housing.



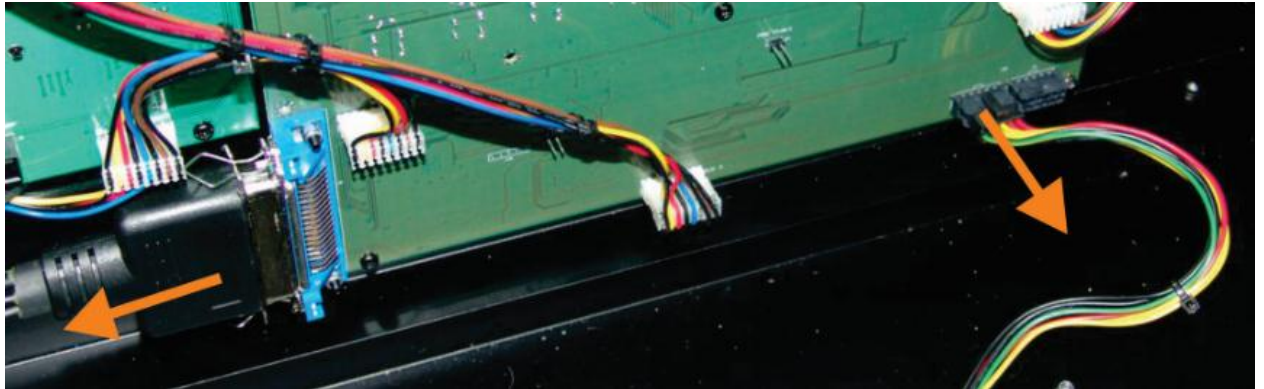
**Lift first, then pull forward**

Fold the front plate forward like opening a lid until it is about 90 degrees to the work surface.

On the back of the front plate are a large data connector and a small power connector.

Unclip the data connector latches and remove it carefully.

Unlock the power connector by pressing on the latch and disconnect it.



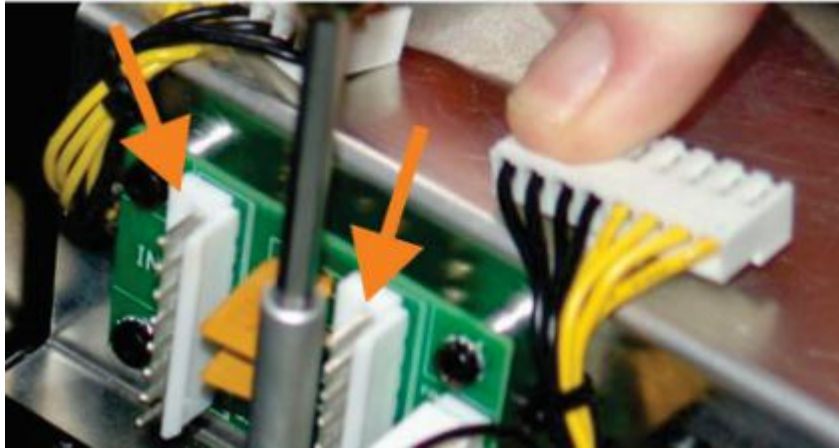
**Data and Power connector under the front plate.**

Remove the front plate from the controller and place it securely away from the desk. Do not rest it on its exposed back. Ideally lean it against a wall or lay it on a flat surface with a protective mat or blanket below to avoid cosmetic damage.

### 3. Removing the blind plate

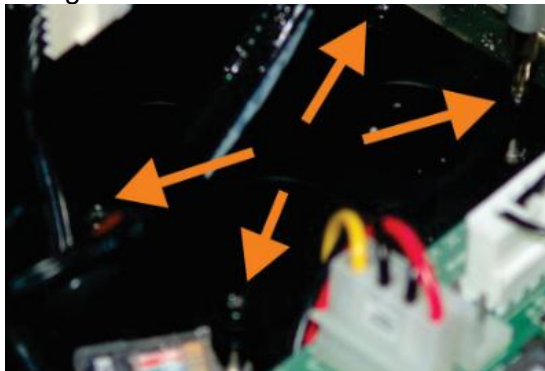
Locate the MIDI plate to the left of the power supply.

To enable easier access, disconnect both power connections from the fuse PCB attached to the power supply chassis.



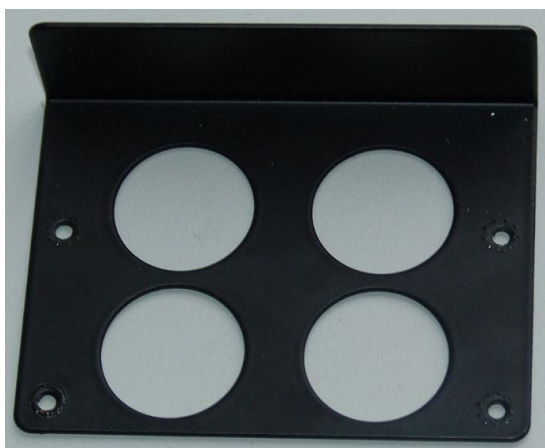
**Main Power cables and fuse PCB**

Using a Torx T10 driver remove all 4 screws of the Midi Plate and remove the plate from the M1



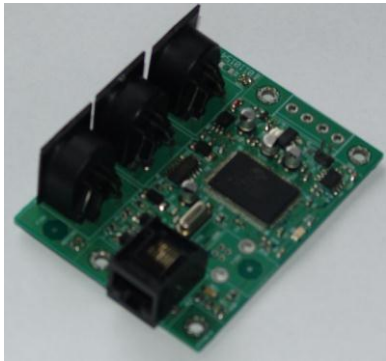
**4x T10 and washer**

Store the MIDI plate in a dry place if you ever wish to remove the PCB from the M1 again. Do not lose the screw and washer as they will be needed in a moment to secure the PCB in its place.



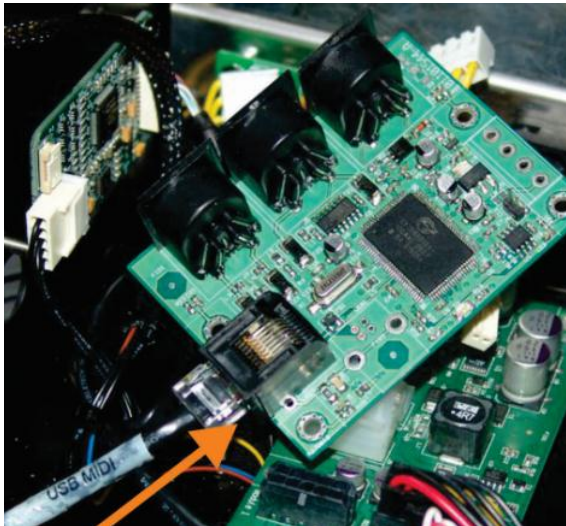


## 4. Installing the PCB



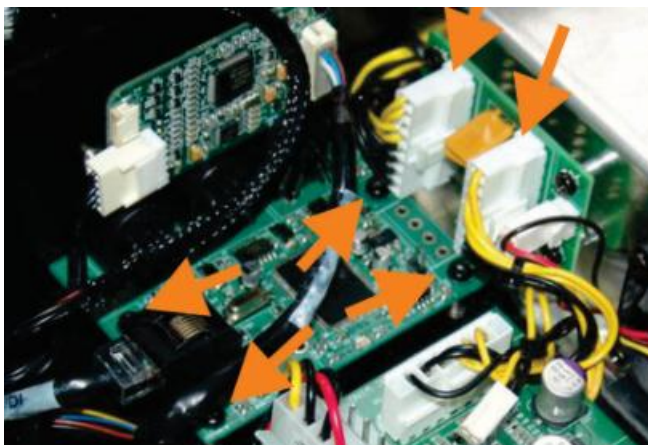
Remove the PCB from the anti-static bag. Guide it carefully into place with the MIDI connectors facing to the back of the M1.

Before mounting it, connect the RJ45 cable with the “USB MIDI” label to the connector on the PCB. No other connections are needed!



### Data and Power RJ45 connector

Secure the PCB with the 4 screws and washers, using a torque of approximately 1.5N. Reconnect the two power cables next to the PSU and ensure they click into place



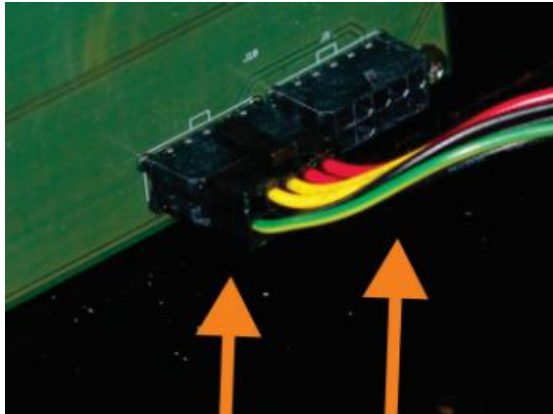
### MIDI PCB in place and power cables connected

## 5. Reassembly

The M1 has to rest on a hard and perfectly flat surface during assembly. Failure to do so may damage the chassis by twisting it into position.

Place the front panel in front of the M1 chassis and reconnect the data and power connection.

Secure the data connection with the provided spring clips. Two identical power connectors are provided on the front panel right next to each other, it does not matter which one of them is used.



Guide the plate back into its position carefully underneath the screen housing and lower it into the chassis. If it does not want to fit on the back side, hold it with one hand and grab the screen housing with the other. A slight pull backwards on the screen housing will open more room for the plate to settle into place.

Once it is secure in position, place the 6 Torx screws around the front and back side into their holes. Tighten them down lightly at first.

Once they are in place, tighten them down in the following order

*Front left, Front right, Back left, Back right, Monitor left, Monitor right.*

Now check the M1 for being level by pushing on the corners to test for any wobble. If any of the feet do not rest on the work surface, loosen the screws and adjust the plate and chassis, then repeat the above process.

Next, tighten the 4 3mm Hex screws on the front plate down in a cross pattern:

*Bottom left, Top Right, Top Left, Bottom Right*

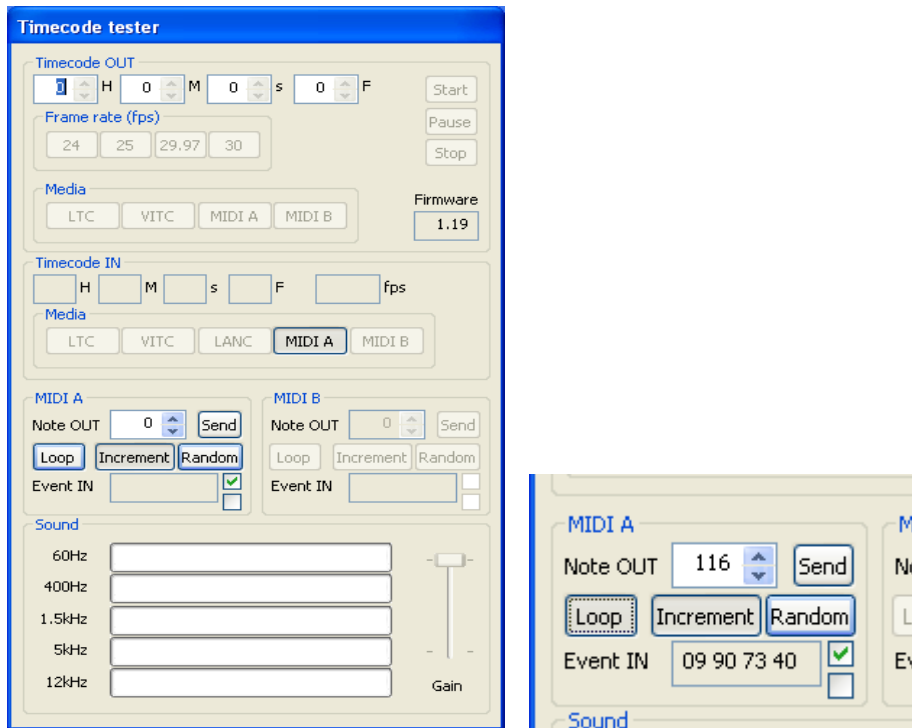
Reconnect all cables and power on the M1.



## 6. Test

Once the LOAD SHOW screen show look for the “More” button on the bottom and expand it. Find the “Tools” menu and start the “Console tester”

Connect a MIDI cable between the IN and the OUT port on the back of the M1.  
Find the “Timecode Tester”



Select “Loop”.

Check for

- ‘Note OUT’ increments
- ‘Event IN’ 09 90 xx 40 appears ( xx is incrementing hexadecimal number )

Once completed, close the console tester.

The Midi installation is now completed

## 7. Support

In case of questions or comments to this document please contact:

[controllersupport@martin.dk](mailto:controllersupport@martin.dk)