



# Yamaha DM1000 Fader replacement

## Replacement

Motorized fader replacement included transistor

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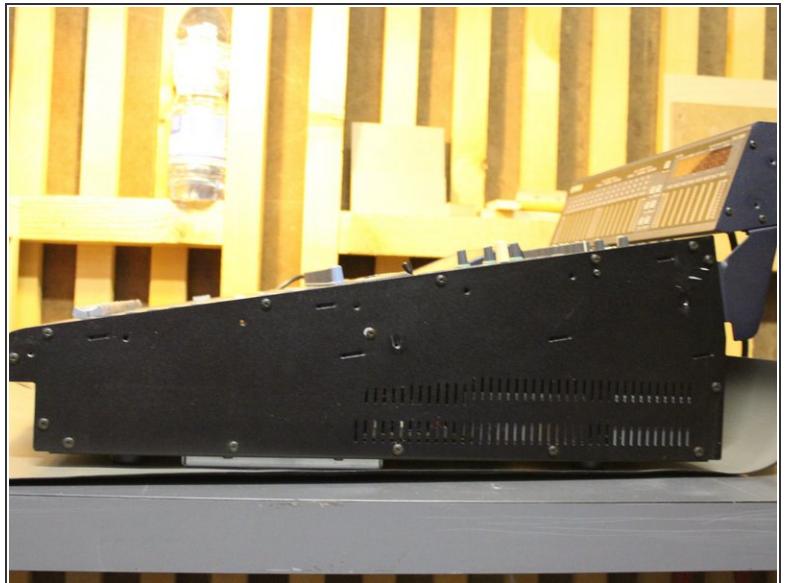
## INTRODUCTION

Open the console and replacing the fader, step by step. This job need soldering skills an couple of hour.

### TOOLS:

- 4mm Phillips Screwdriver (1)
- Soldering Iron (1)
- New Item (1)

## Step 1 — Remove wood panels (if you have it)



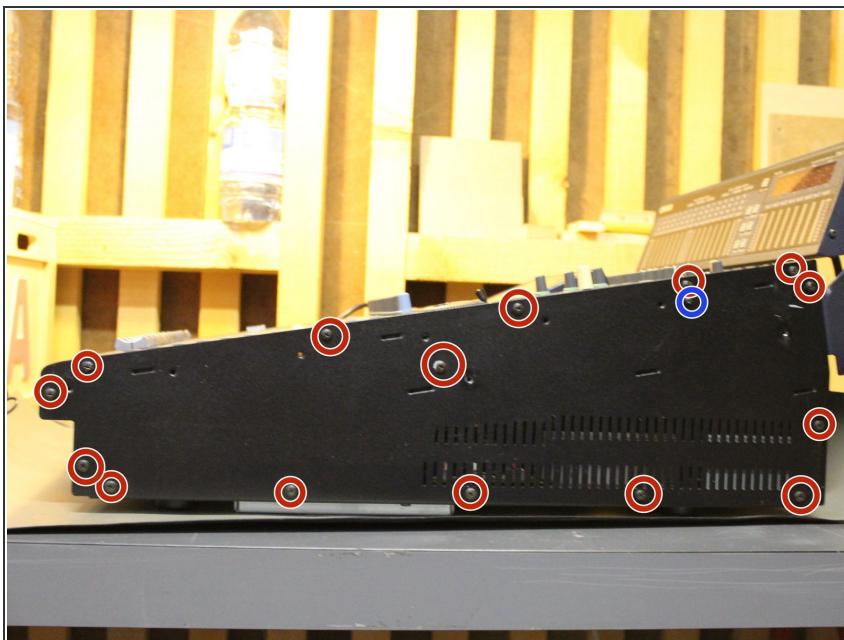
- Remove 5 screws
- Three screws for the lower part.
- Two screws for the upper part
- use Phillips screwdriver n•4

## Step 2 — Remove Meter (if you have one)



- Remove sub-d connector from bargraph
- Remove 4 screws (2shorts/2 long) from metal bracket and mixing desk

## Step 3 — remove side panels



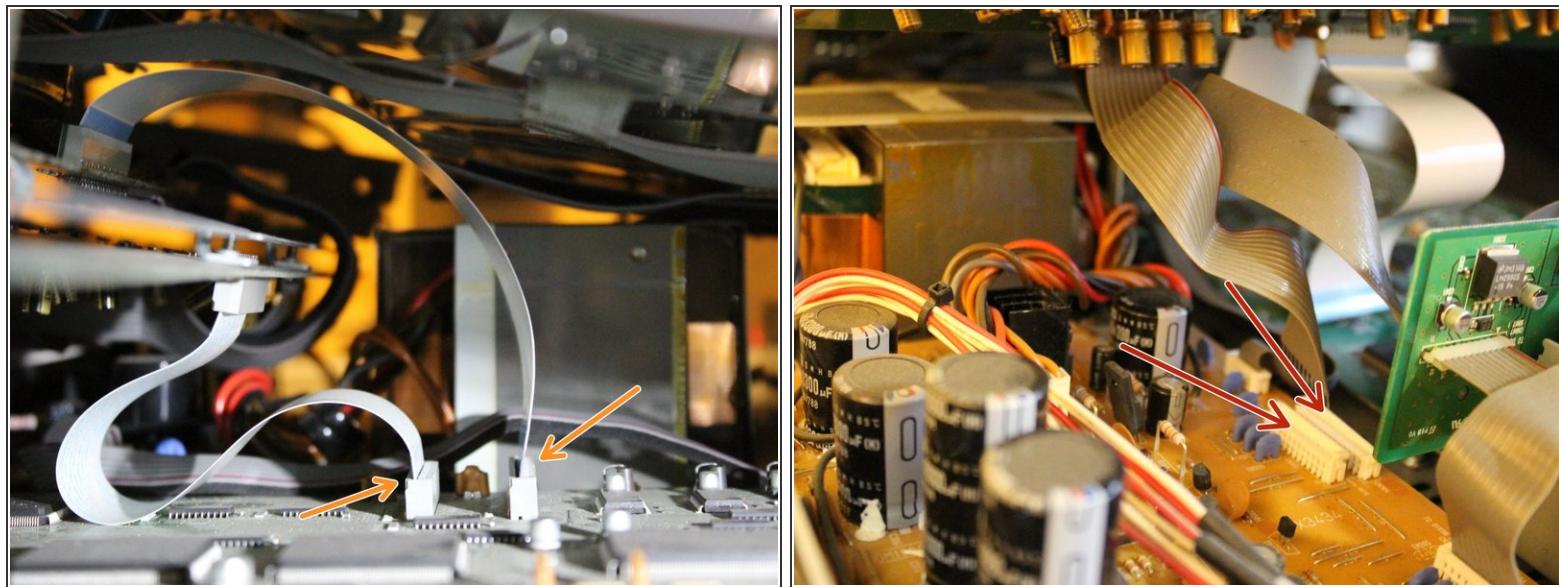
- Remove 15 screws
- Remove 1 smaller screw
- remove Phillip screw n•2
- Attention: these are self-tapping screws => risk of creating chips when screwing

## Step 4 — Remove fader button + front &



- remove 16 + 1 fader with fingers or a with a plastic card
- remove 4 screws at the back
- remove 4 screws at the front (bad pic here)

## Step 5 — Remove 4 cables before openin



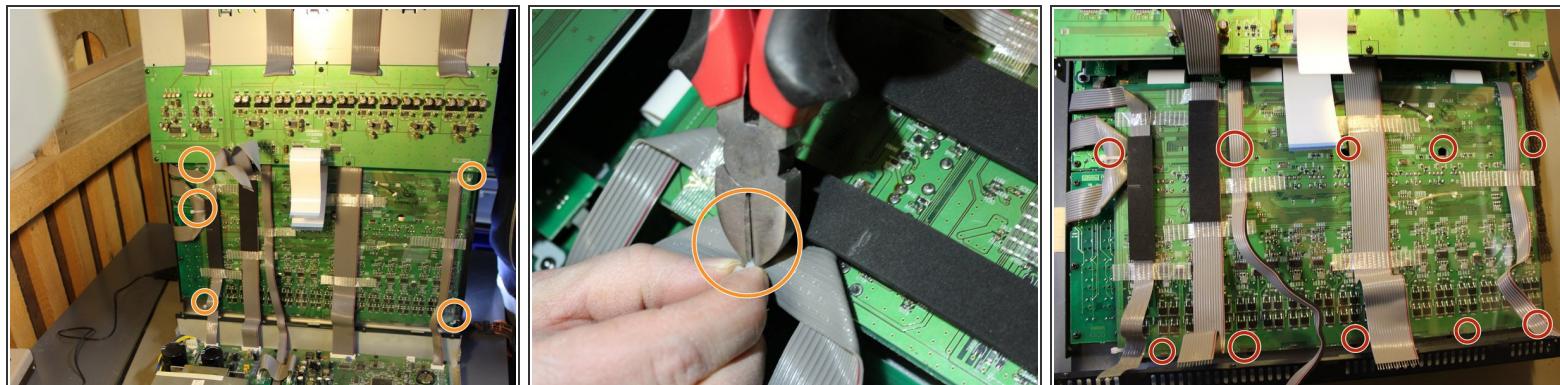
- remove carrefully from the side the 2 withe connectors
- remove carrefully 2 cables from the power unit, unlock first the connector

## Step 6 — Opening the console



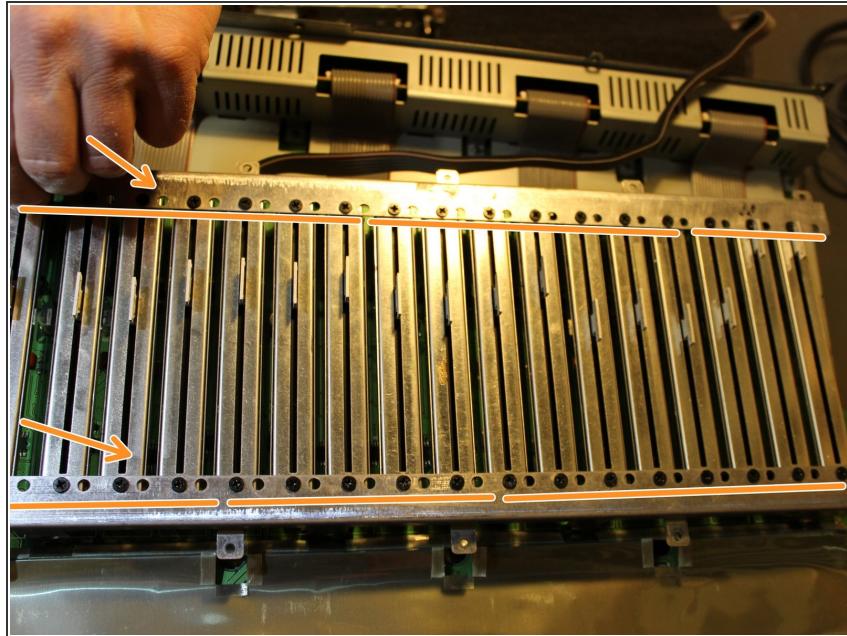
- open carefully the console from back to front by graping the sides
- open connectors and remove 5 cables
- you can now remove the upper part of the console

## Step 7 — Fader PCB removing



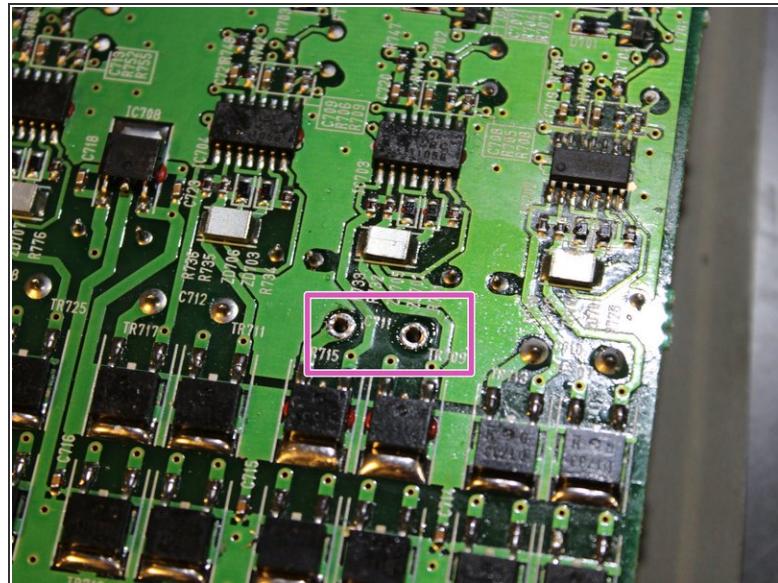
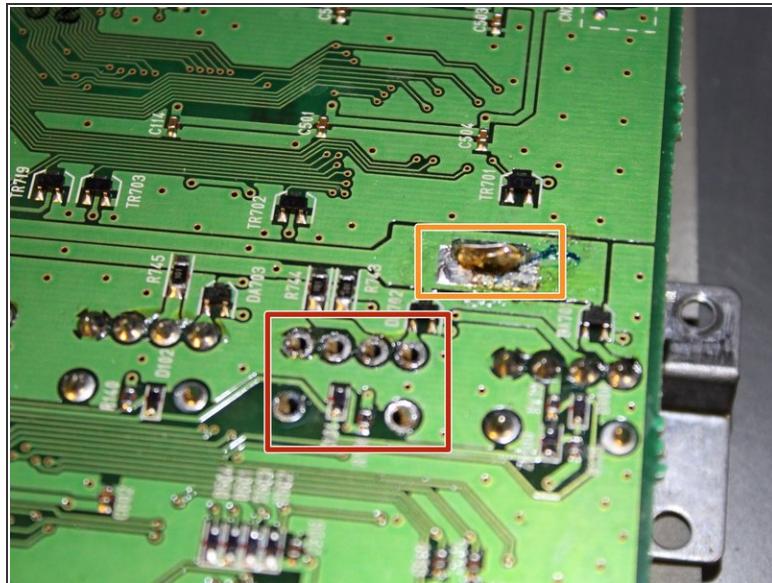
- cut the pastic fange, 4 on the corners and 1 fixing a flat cable
- Remove 10 screws using a philips n°2

## Step 8 — Removing Fader cover



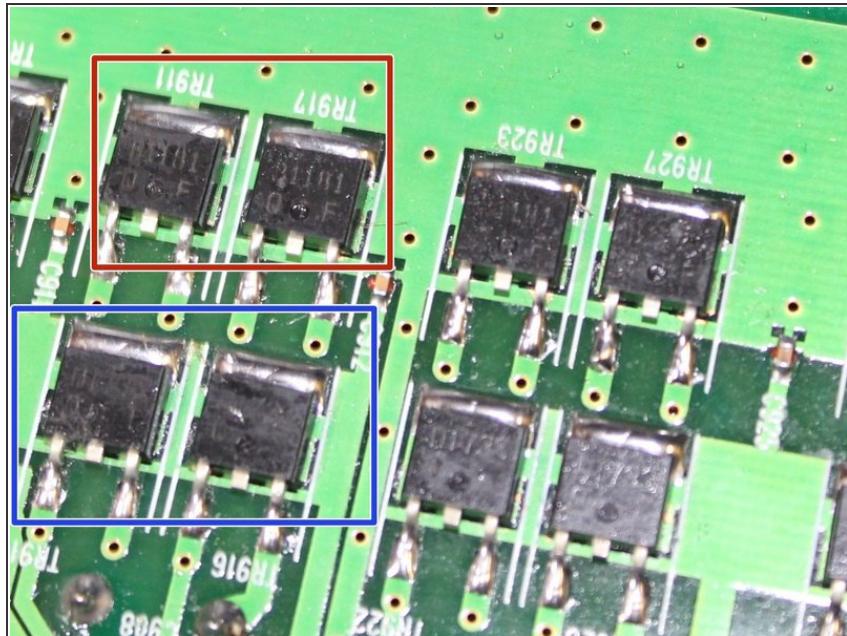
- For each fader remove the 2 blacks screws with a philips n°2

## Step 9 — Remove cover + fader



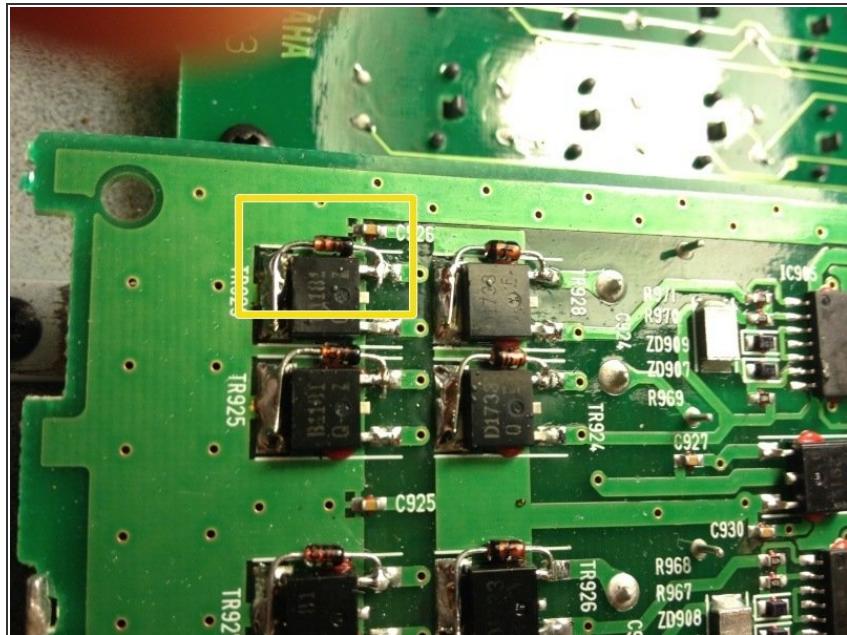
- remove solder from 4 metal bracket that are fixed to the PCB from the cover
- remove solder with a pump from 6 pin of the fader
- remove solder from the 2 pin of the motor of the fader

## Step 10 — replace transistor



- Replace transistors by new ones
- 2SB1181
- 2SD1733
- they are hard to find as they are being obsolete

## Step 11 — Add more reliability



- An idea from web forum from a Yamaha Technician that propose to add 4X 1N4148 diode by fader to protect the transistor as free wheel
- add diode between base and collector as shown here

To reassemble your device follow the following instructions in reverse order.