Yamaha DM1000 Faders Replacement

Motorized faders replacement included transistor.

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INTRODUCTION

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

TOOLS:
- 4mm Phillips Screwdriver (1)
- Soldering Workstation (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 Philips screwdriver #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 #2
  - Attention: these are self-tapping screws => risk of creating chips when screwing.
Step 4 — Remove fader button + front & back screws

- 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 opening

- 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 grasping 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 plastic fange, 4 on the corners and 1 fixing a flat cable.
- Remove 10 screws using a philips #2.
Step 8 — Removing Fader cover

- For each fader remove the 2 blacks screws with a philips #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 transistors

- 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 show here.

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