



Reloop RP-4000 M3D Disassembly / Repair

The Turntable made weird mechanical sounds. It seems to have problems with the Motor (Direct Drive). The disassembling showed a loosen electromagnetic coil.

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INTRODUCTION

The Turntable made weird mechanical sounds and lost drive force. It seems to have problems with the Motor (Direct-Drive).

The disassembling showed a loosen electromagnetic coil. After fixing this the turntable was working perfect again.

Before you start:

- Unplug all cables - Otherwise risk of death by electrical shock
- Know (at least a little) what you are doing

TOOLS:

- [Phillips #2 Screwdriver \(1\)](#)
- [Soldering Workstation \(1\)](#)
- [Multipurpose Glue \(1\)](#)

Step 1 — Reloop RP-4000 M3D Disassembly / Repair



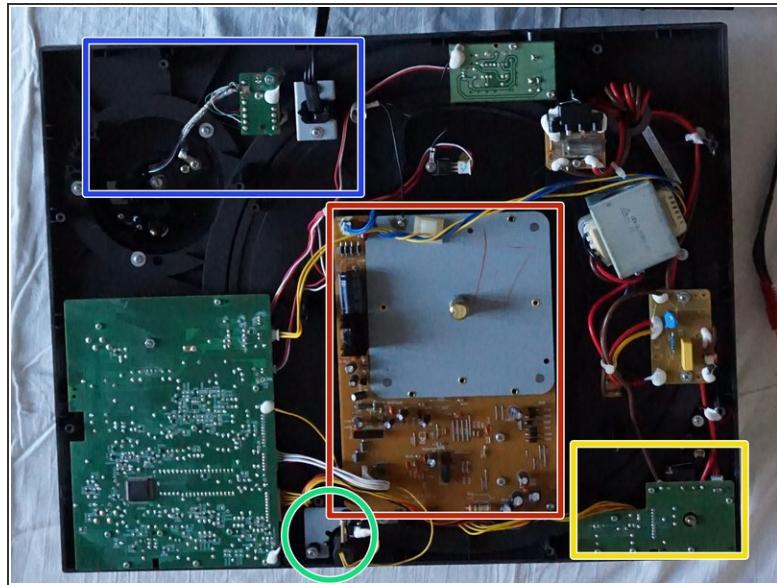
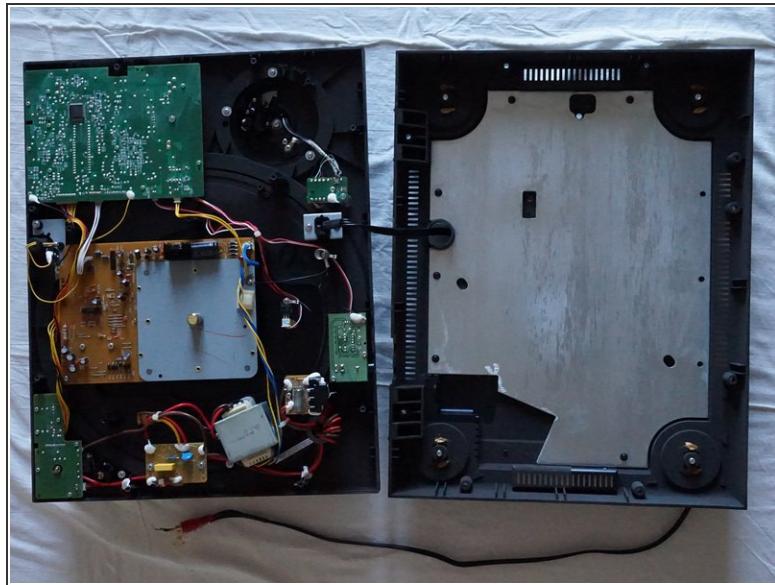
- First of all you have to remove the needle, slipmate and the plate. Remove the turntable plate by lifting it up. It rests on a cone at the center axis. It will get loose with a *plopp*.

Step 2 — Open the housing



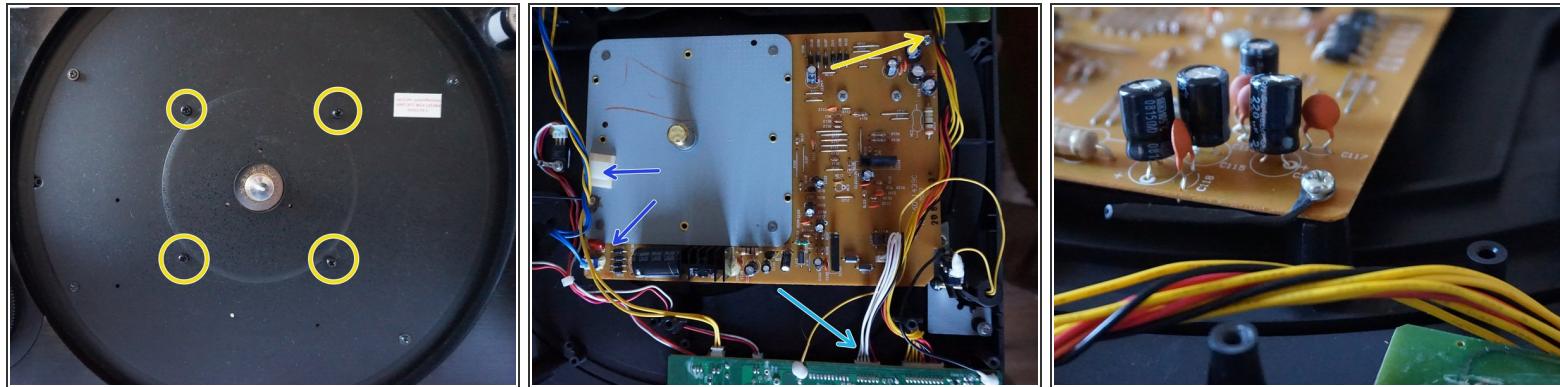
- Pull up the small cover plate for the "remote control start/stop" plug allocated at the backside. It is fixed with double-sided adhesive tape
- For turning around the turntable put maybe two books beside the main axis . So that the device is not resting at the main axis either then the tone arm!
- Loosen 8 screws with a Phillips screwdriver at the bottum of the turntabel. (signed red in picture).
- Be aware that under every screw a spacing ring is allocated, the will fall away while opening the housing. (It is not a big problem during reassembling later)

Step 3 — A Look inside



- 1st impression: looks cheap
- blue: Audio cabling from tone-arm to cinch cable.
- green: light an switch
- yellow: Start/Stop and speed setting pcb.
- red: The direct-drive on a pcb under a metal housing.

Step 4 — Direct-Drive disassembly



- Tilt the housing for loosen the 4 phillips screws at the top (marked yellow).
- unplug the blue cable
- unplug the white cable
- unwrap the yellow cable-pack
- loosen the last phillips screw holding the drive-pcb.

Step 5 — Direct-Drive disassembly 2



- After removing the last screw you can lift and turn the PCB. The Drive Axis (Pin) with its housing is held to the PCB by magnetic force. You can lift it up.
- Here i found my problem; One of the 6 coils was loose and the cable was broken from the soldering. I checked the coil with a multimeter (continuity check - beep). The coil was despite some scratches still good and with the signs on the pcb i was able to solder the coil-cable back in place.
- For the attachment of the coil to the pcb i choose a strong but still a little flexible glue ("UHU Kraft Alleskleber").

To reassemble your device, follow these instructions in reverse order.