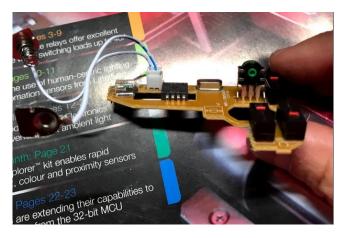
Wireless Mouse modification for SDR tuning

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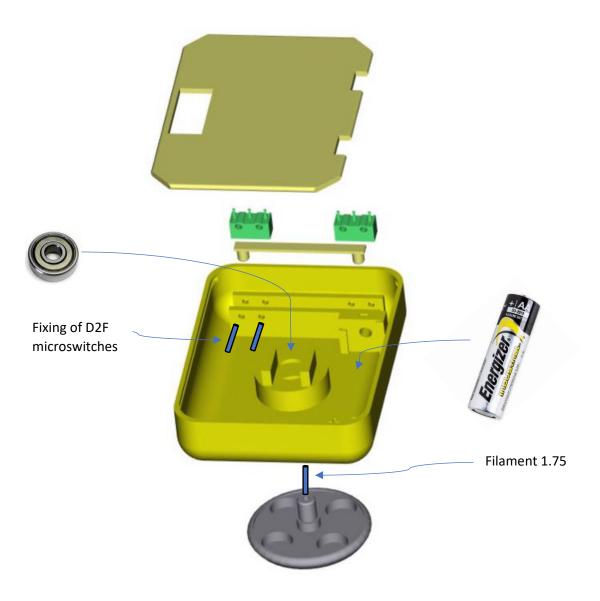
- 1. Buy Yenkee YMS 900AH wireless mouse (price only up to 5 EUR)
- 2. Buy bearing: outside diameter D = 19mm, height = 6mm, inside diameter d = 7mm
 I have used online shop such as dimensor.cz and bought 20pcs of these bearings. Using them for other projects such as wind propellers.



- 3. Disassemble the Yenkee YMS 900AH wireless mouse
 - a. Desolder/remove D2F switches (all three; in modified mouse we will need only two)
 - b. desolder/remove rotational encoder, originally used for scrolling wheel (three terminal black component with green center on right)



- 4. Print all parts of new wireless mouse on 3D printer
 - a. Bottom
 - b. Buttons
 - c. Base housing
 - d. Knob



- 5. Assemble together all parts as depicted above
 - a. Insert bearing into center slot
 - b. Insert and fix D2F microswitches. Use short wires to connect microswitches to original PCB
 - c. Insert tuning knob into center of bearing
 - d. Insert short length of 1.75mm filament into center of tuning knob, fix it.
 - e. Insert rotation encoder in center, filament 1.75mm from knob gets through center of encoder. Use short wires to connect microswitches to original PCB
 - f. Fix battery contacts, insert battery

6. Attach bottom part, mouse is ready.

I have disconnected the IR emitting LED, since I use this mouse only for tuning. In this case I wake it up from low power mode by pressing any of two buttons.

