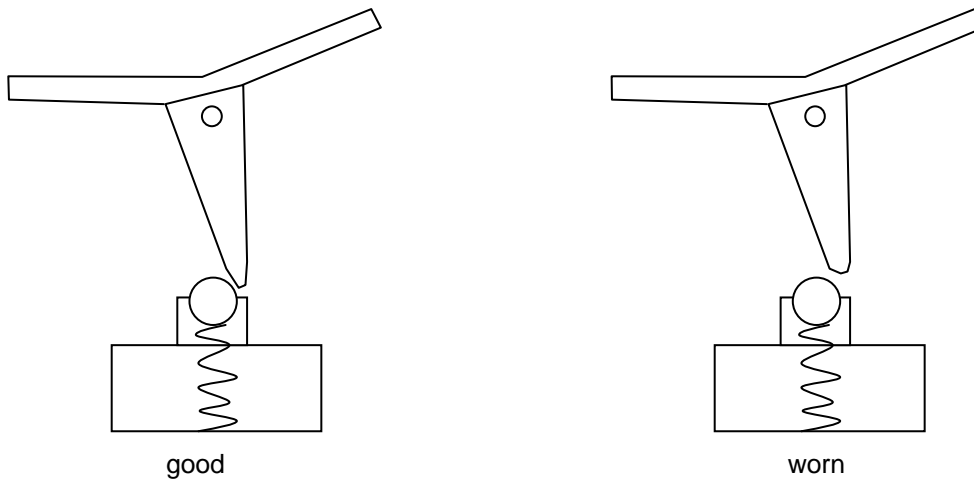


Worn lever repair

After some years of use the lever of a DGT clock may wear. Due to the material it is made of the lever DGT Easy⁺ is most likely to wear after some 10 thousands of movements. But also other clocks will show signs of wear after some 50 thousand movements. Roughly the lever mechanism works like in Picture 1



Picture 1

The bottom of the lever that slides over the iron ball wears off after some years of use. This can be corrected by making the distance between lever and metal ball smaller and make the end of the bottom part of the lever relative sharp again.

Remember that clocks made after 2008 have a different mechanism that does not wear. This manual only applies to items that were built before 2008.

DGT 2010's are all fitted with the new mechanism so this document does not apply to a DGT 2010 or DGT NA.

Do not open your clock if you still are within the warranty period.

Easy+

First remove the lever.

Use a kitchen peeling knife for this and put it between the lever and the housing as in Picture 2. By moving the top of the knife backwards you will be able to remove the lever.



Picture 2

Inspect the lever on wear.

If it doesn't look worn, then put it back 180 degrees turned around. This may have a miraculous positive effect.

In Picture 3 you can see that the middle of the "foot" of the lever has round cut-out were it should be strait.



Picture 3

Remove the batteries first.



Picture 4

Then remove all 6 screws

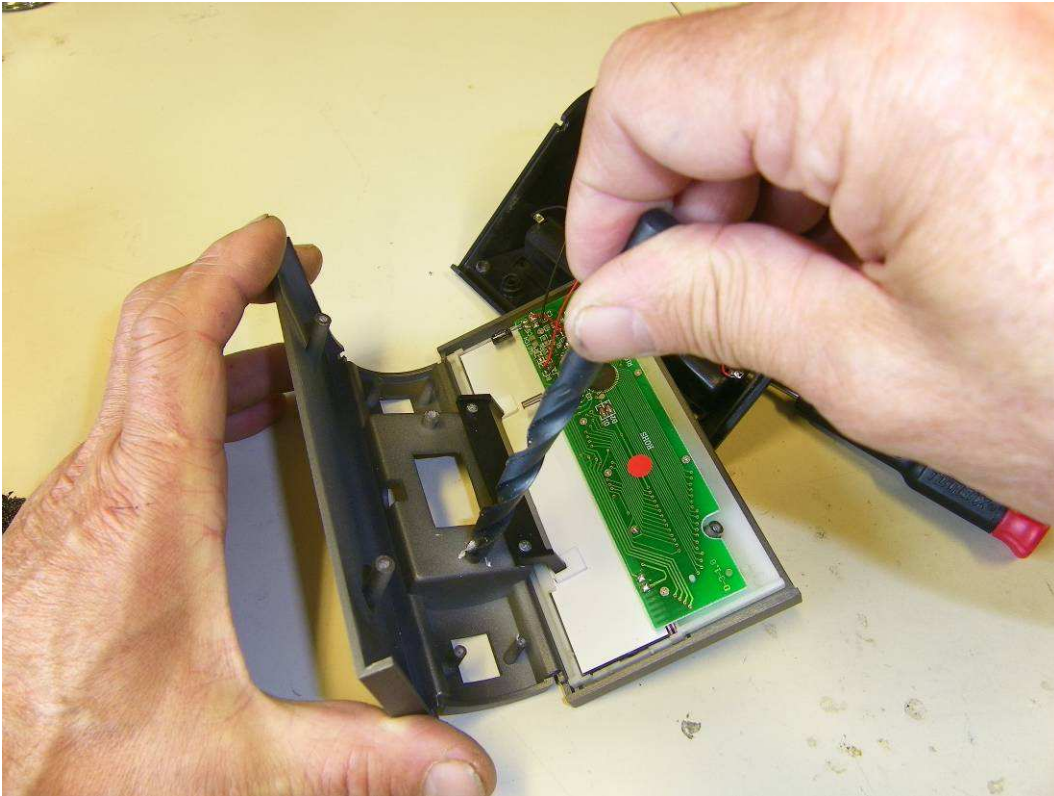


Picture 5

Next remove the bottom of the clock.

Be careful not to damage the wires to the battery and/or the buzzer.

Use a 8 – 10 mm drill bit to remove about 1 millimetre of stubs like in Picture 6. You can also use a file to achieve this. Smoothen the stubs with some sandpaper or a small file, when you used the drill bit.



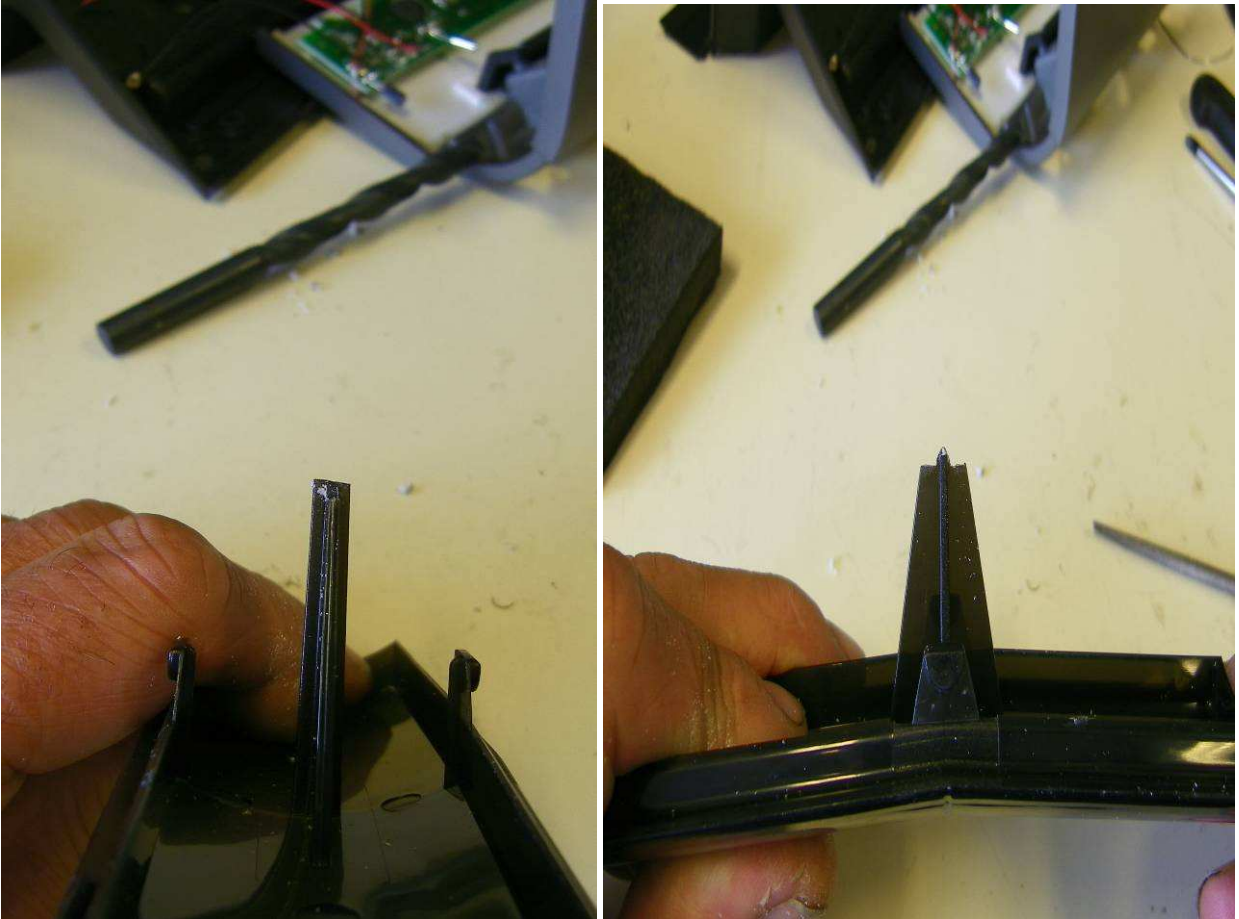
Picture 6

Then use a small file or sandpaper to make the "foot" of the lever sharper again. It is enough when you cannot see the gap made by the metal ball anymore.



Picture 7

It should look like Picture 8 after the treatment.



Picture 8

Assemble the clock again, but do not tighten the center screws. Put some grease or Vaseline on the pivot points and the foot of the lever.



Picture 9

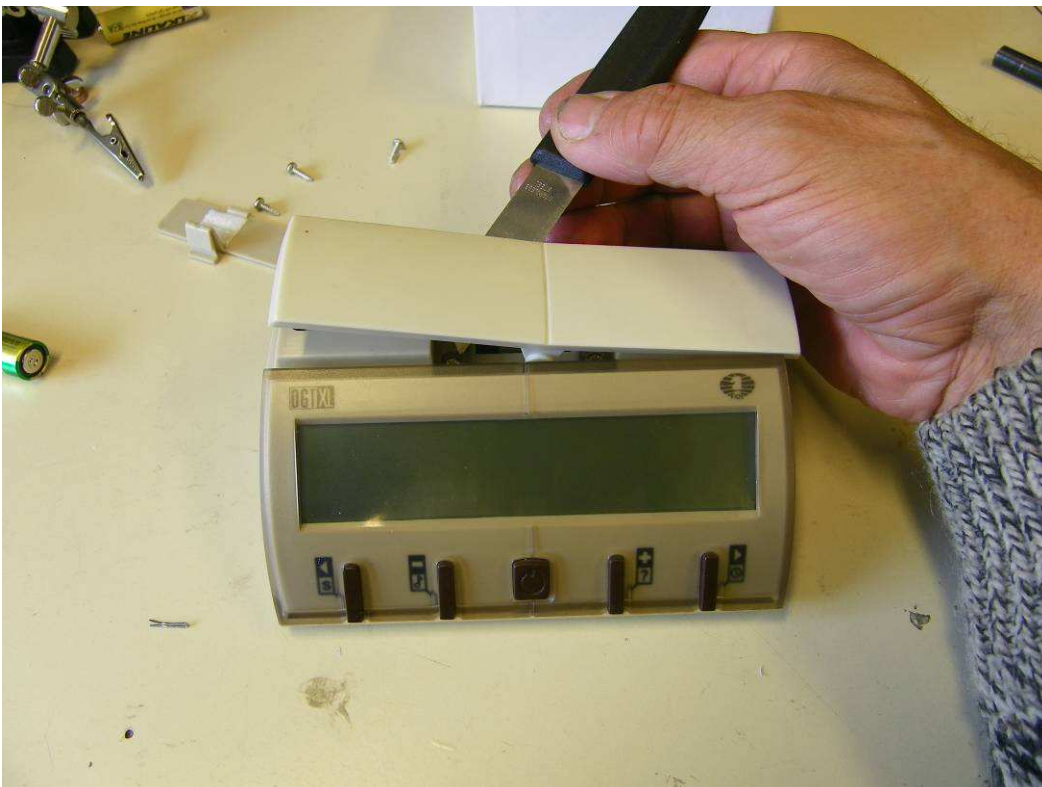
Carefully tighten the centre screws while you constantly move the lever. Try to find a position of the screw that makes the lever move like you like it most.

DGT XL

First remove the lever using a small kitchen knife like in Picture 10



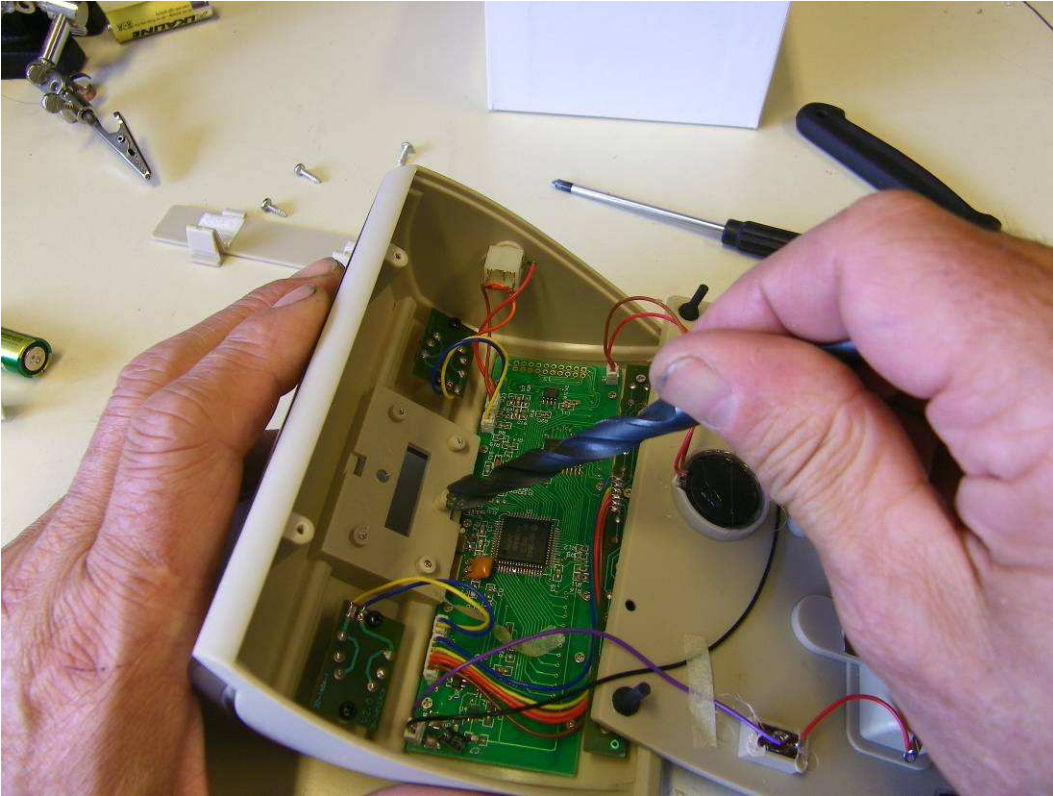
Picture 10



Picture 11

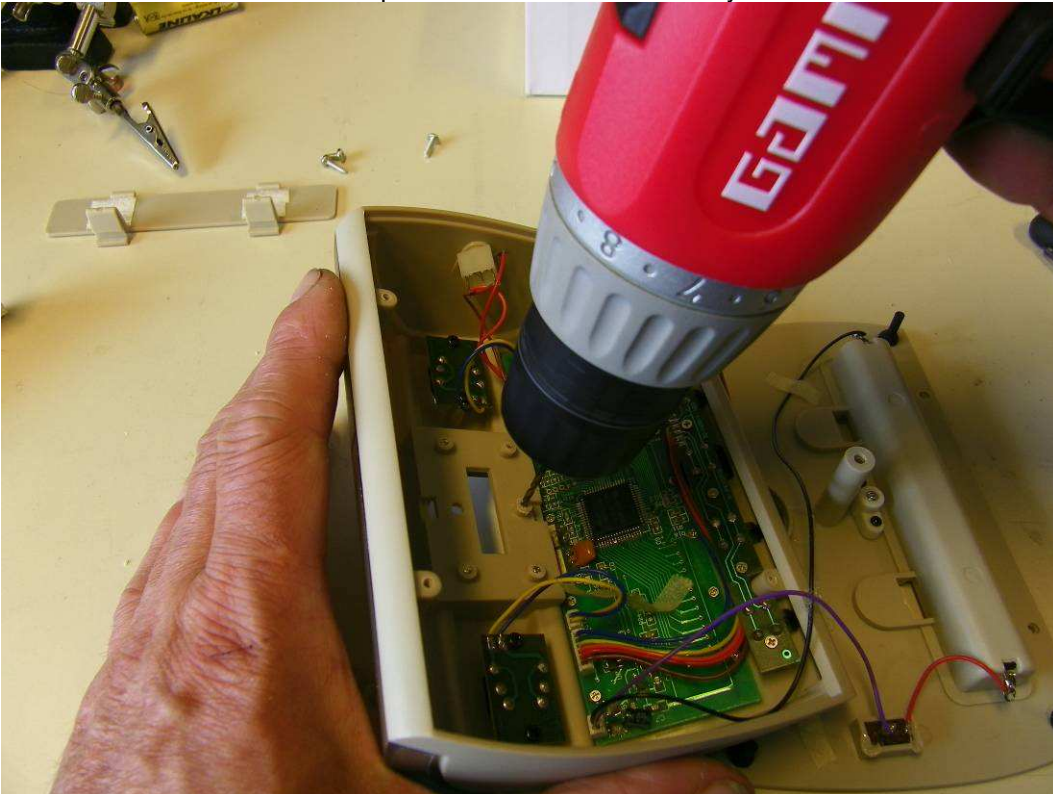
Have a good look at the foot of the lever; it may look like the one of the DGT Easy as in Picture 3. When it does you have to perform the same "sharpening" procedure for it.

Remove the bottom by unscrewing all 5 screws. Not that the shorter screws are placed at the front end of the clock and the longer ones on the back side. The middle screw has a smaller head. Use a 8 – 10 mm drill bit to remove 1 millimetre of the stub like in Picture 12. Use a small file or sandpaper to smoothen the surface after this.



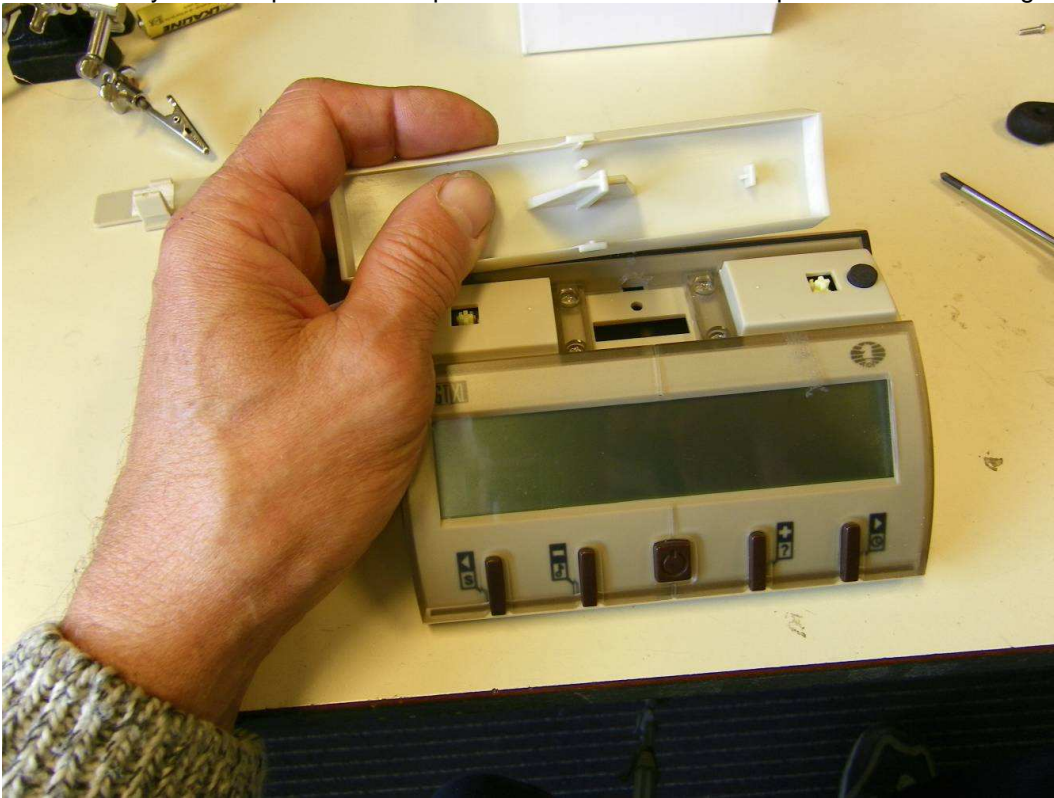
Picture 12

Make the hole for the screw deeper with a 2 mm drill. You may drill until it shows at the other end.



Picture 13

Reassemble the bottom of the clock again, but do not tighten the centre screw.
Put some lubrication on the foot of the lever and on the pivot points.
Put the lever back in the clock again, taking note of the small pin on one side. The lever should be positioned in such a way that this pin will correspond with the small hole in top of the clock housing.



Picture 14

Now you can tighten the centre screw, while rocking the lever. Turn it so far until the movement of the lever is as you like it most.

DGT 2000

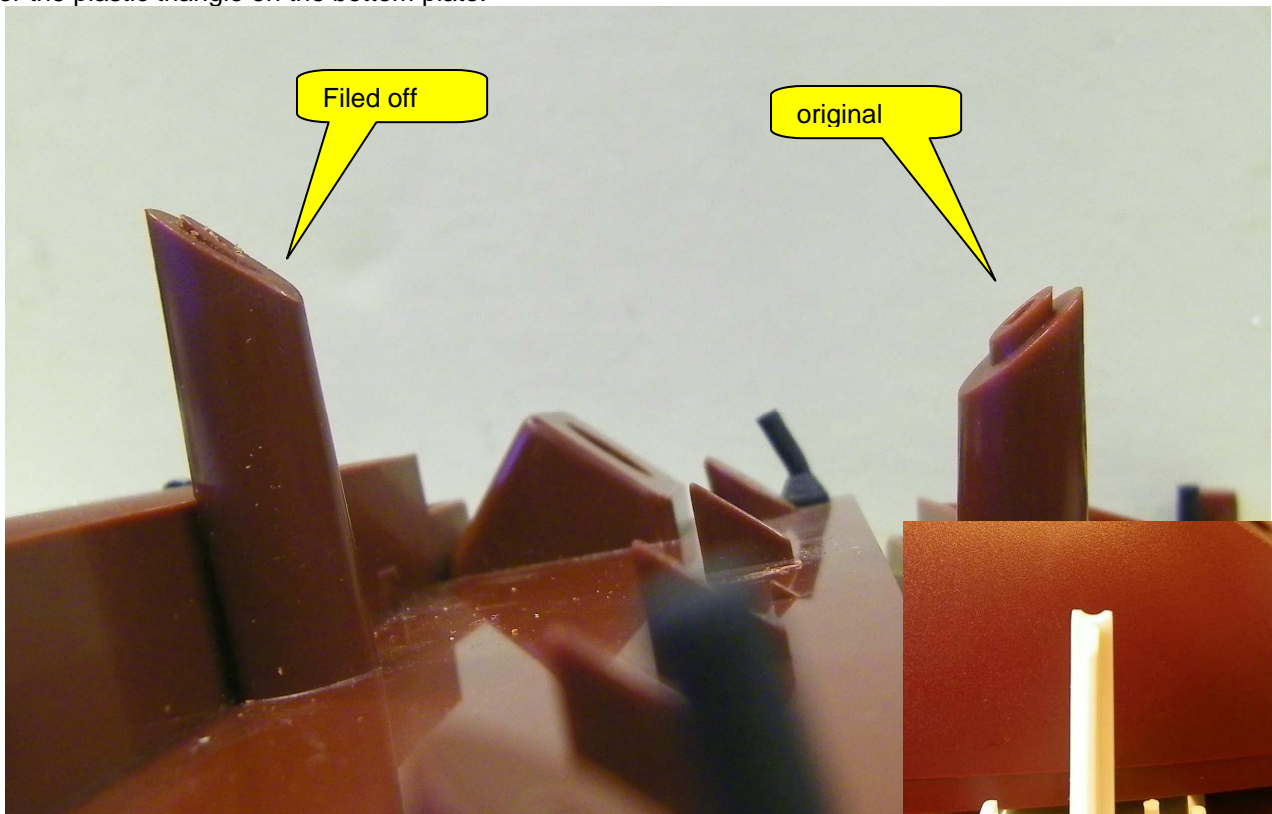
After long use the click mechanism of the lever may be worn out.

You can try to adjust the center screw first.

Tighten it when the switch does not click enough or jumps back sometimes, or loosen it when the lever is moving with too much resistance

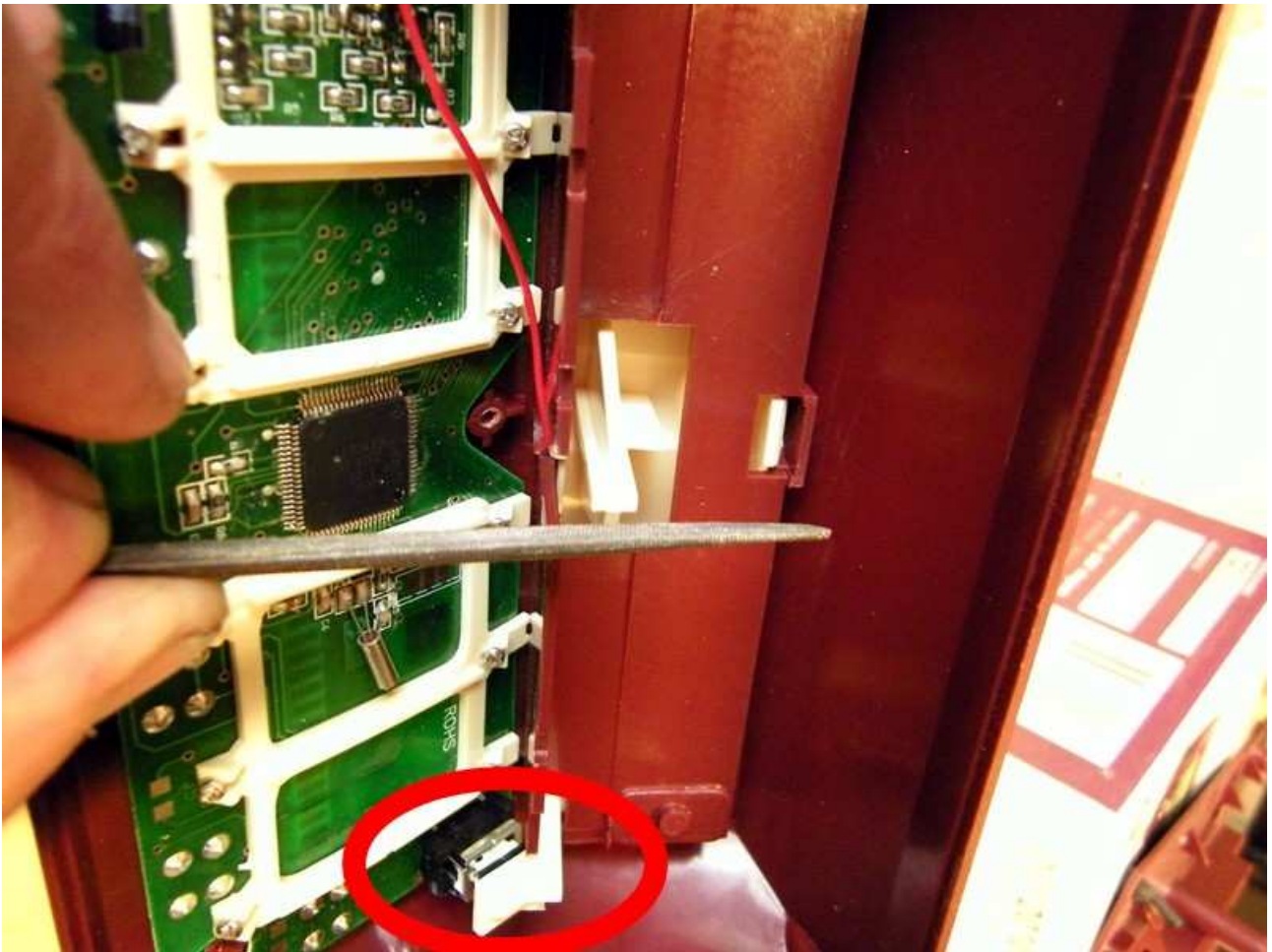
You can put more pressure on the spring construction by opening the clock and remove 0.5 mm from the center column or the bottom housing with a small file or sand paper.

After reassembling the clock you can adjust the "feel" of the lever by tightening or loosening the center screw. It is also a good idea to put some grease or Vaseline on the tip of the lever that touches the iron ball or the plastic triangle on the bottom plate.



Original and filed of stand.

Sometimes it will also help to make the tip of the lever a little bit sharper with a file or sandpaper
Especially when it looks like as in the smaller picture



Most of the types need a pad between the lever and the switch. No effect of the lever switch may be caused by the absence of these pads.