

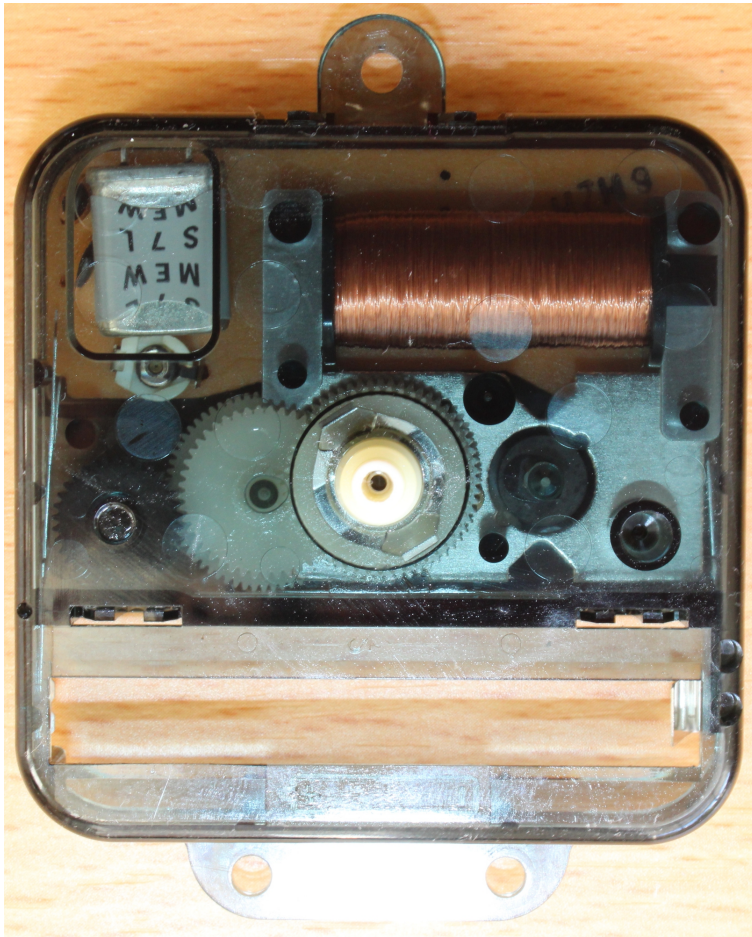
## Wall Clock Core Replacement

A Seiko wall clock I bought in 1978 started stopping once a month. I doubted the battery at the beginning but recognized that the too much gear friction was the cause. All gears are supported by plastic dimples (Plastic to plastic contacts) without using artificial jewels unlike expensive old-fashioned wrist watches.

I have known that the clock core is ultimately standardized, widely used on most clocks regardless of desk-top clocks and wall clocks, and the sales price is amazingly less expensive (\$3). Accordingly, I can assume that the sales price of clocks is mainly determined by the aesthetic artistic design similar to Apple Computers' products.

The price tag of the Seiko wall clock was 10,000 yen (\$300) at that time. It is so expensive but the appearance is excellent similar to Apple products, again.

I decided to replace only a clock core preserving other costly parts (Dial plate, Needles, Frame) manufactured by prestige Seiko.



Original clock core (Front) to be replaced

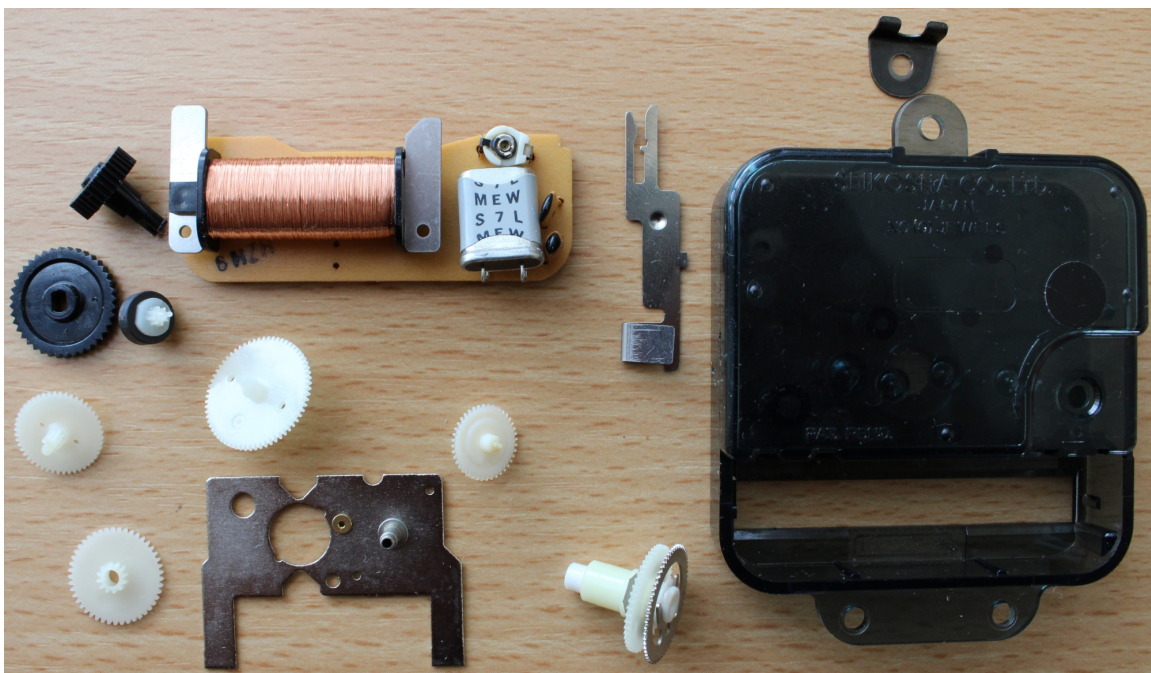


Original clock core (Rear) to be replaced

Original clock core was ticking but often stopped ([watch MP4 video](#)).



Original needles & clock core (Front) to be replaced



Problematic clock core disassembled (was unable to rebuild)



Original dial plate (Front)



Original frame (Front)



Original dial plate (Rear)



Original frame (Rear)



New clock core assembled



New clock core anchored by washers & original screws



Working, ticking,,