

## Instruction manual Mainspring „Lucky Winder“ No. 509104

### Introduction

The "Lucky Winder" spring winder for large watches is a robust tool that allows the repairer to handle all types and sizes of mainsprings, either with end loop or end hole - quickly and safely in and out with the help of nine different drum sizes.

**Important note: Since mainsprings can store enormous amounts of energy, please always ensure that your eyes are protected and that you wear strong gloves when handling the clock.**

### Scope of delivery

- 1 solid frame with crank, collet and ratchet reversing lever
- 9 drums Ø 22-76mm
- 2 hooks for holding mainsprings with end hook and end loop



### Working steps for winding and unwinding clock springs with end loop

#### 1. Work step

Fix the spring core in collet and tighten the collet firmly. If necessary, keep spare spring cores in stock for use in deflected mainsprings.

#### 2. Work step

Hook the inside of the mainspring into the spring core and attach the loop to the hook for end loops. Pull the mainspring by the crank until it is tight enough to fit over the metal clamp. Operate the ratchet reversing lever and release the mainspring until it fits into the metal clamp (see fig. 1).

#### 3. Work step

Conversely, when you relax the mainspring with the end loop, proceed in reverse. Attach the loop end to the hook for end loops and the spring core inside the coil of the mainspring. Crank until the tension spring is narrow enough to release the metal clip. Operate the ratchet reversing lever and allow the tension spring to relax slowly in your hand (see fig. 2 and 3). Now that the complete tension has escaped from the mainspring, you can safely clean, repair and replace it.

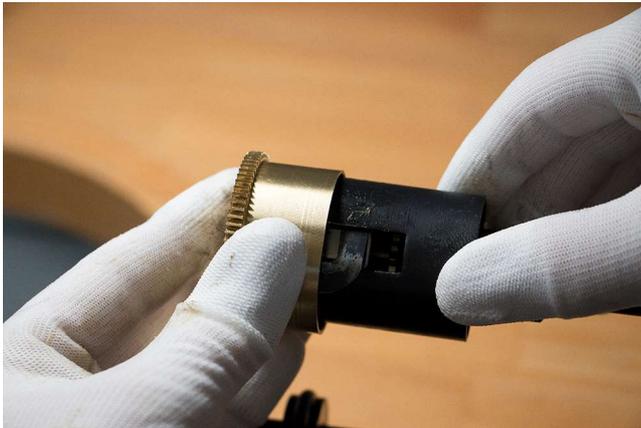
## Working steps for unwinding and rewinding clock mainsprings with end hole

### 1. Work step:

Remove the cap from the mainspring barrel using a soft brass hammer. Tap the spring core lightly and the cover will pop open.

### 2. Work step:

Choose a suitable drum for the mainspring, which is slightly narrower than the opening of the mainspring barrel and slip it over the mainspring. The slot of the drum points towards the mainspring barrel. Now fix the spring core in the collet.



### 3. Work step:

Hold the mainspring barrel securely with a strong glove and crank the mainspring tightly enough so that the drum slides into the mainspring barrel. Turn the drum so that the end hole of the tension spring protrudes.

### 4. Work step:

Operate the ratchet reversing lever and release the mainspring until it locks in the drum. Now you can remove the mainspring from the mainspring barrel.



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## 5. Work step:

To remove the mainspring from the drum, hook the device into the end hole of the mainspring. Now crank the mainspring so tightly that you can remove the drum. Push the drum back over the collet so that it is no longer in the way.



6. Work step:

Hold the mainspring with the glove and operate the ratchet reversing lever so that you can slowly release the mainspring. When inserting a new mainspring with end hole, please go through these steps in reverse order (steps 6 to 1).

