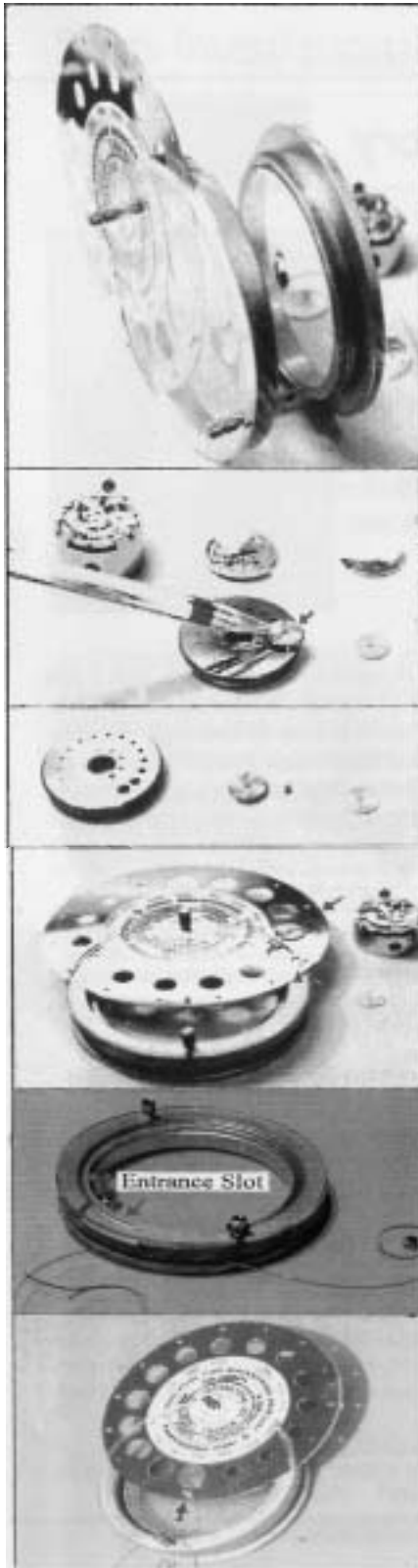


TECHNICAL MANUAL FOR ZF-2000 MAINSPRING REMOVAL TOOL



Description of Parts:

Clear-view captivity compartment.

Threaded cover with center opening for tweezers insertion.

Stainless steel disk labeled with calibrated openings for various Barrel Drums.

Clear view cover plate with two adjusting knobs and positioning hole.

Instructions:

1. Remove Barrel Drum from watch movement.
2. Carefully remove Barrel Drum Arbor exposing the Mainspring, leaving inside Barrel Drum untouched.
3. Position ZF-2000 with Calibration label side up.
4. Rotate the stainless steel calibration disk so that proper opening is located at approximately 2 o'clock position. (Use Label as guide for proper selection)
5. Place barrel Drum with exposed mainspring facing down, into appropriate calibrated opening.

Note this fit must be exact so that Barrel Drum will be totally supported. Use trial and error to find the proper fit. One calibration to right or one calibration to left until proper fit is achieved.

6. Note: Depth of captivity compartment must equal the width of the Mainspring. See photo marked ENTRANCE SLOT second from bottom

7. Turn disk slowly to advance Barrel Drum into a center position inside the captivity compartment.

8. Tighten knobs lightly to prevent stainless steel disk from moving any further.



9. Turn entire tool over to expose work opening.

10. Use tweezers to gently remove first two coils of mainspring loop. These two loops will then occupy the sub captivity compartment. (the small dent in center of the captivity compartment cover)

11. Once these two loops are released increase the capacity of the containment chamber by slowly turning lower cover counter-clockwise.

Note: It may be necessary to use a quick right left movement to facilitate the release of the mainspring

12. To remove the released mainspring continue to unscrew captivity compartment cover.

13. Loosen the two knobs located on clear cover and turn stainless steel disk to allow barrel drum to exit.

14. Congratulations. A smooth, safe release of the mainspring has been achieved.

Final Statement: With the use of your ZF-2000 the removal of the mainspring from the Barrel Drum will take less than 15 seconds. In the beginning please take the time to understand the operation of this high quality tool.