



7733
 14''' 7734
 7736

 31.00 mm

RF 7733

dia. 31.00 mm

Chronograph movement, minute-re-
 corder (30 or 45 m), 2 pushers, cam
 mechanism, 18,000 vibrations per hour,
 height 6.00 mm.



Fig. 1



Fig. 2

Derived calibers

RF 7734

Chronograph movement, minute-re-
 corder (30 or 45 m), 2 pushers, cam
 mechanism, 18,000 vibrations per hour,
 date shown through an aperture in the
 dial, height 6.65 mm.

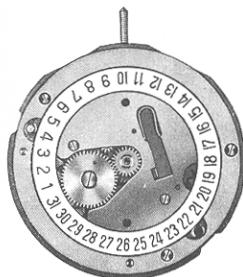


Fig. 3

RF 7736

Chronograph, recorders (30 m and
 12 hours), 2 pushers, cam mechanism,
 18,000 vibrations per hour, height
 7.40 mm.

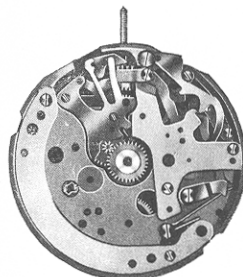


Fig. 4



1. Introduction

This technical communication is intended for watchmakers who wish to familiarize themselves with the method of repairing these chronograph calibers.

2. Dismantling the movement

- 2.1. Dismantling the hour-recorder mechanism of caliber 7736.
- 2.2. Dismantling the date-indicator mechanism of caliber 7734.
- 2.3. Dismantling the chronograph mechanism of calibers 7733, 7734 and 7736.

Important

Before starting the above operations, remove the hands and the dial. Let down the barrel; for this purpose, set the chronograph mechanism to the return-to-zero position and hold back the click with a small pointed tool or screw-driver (see fig. 5).

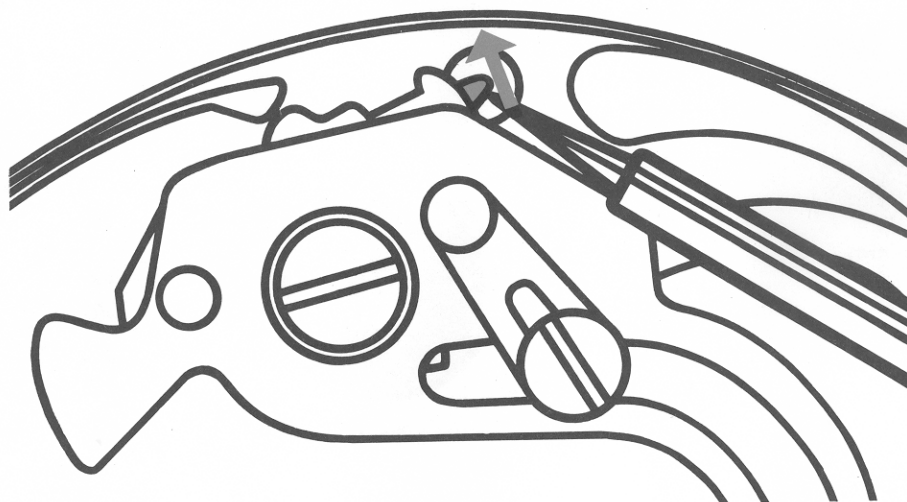


Fig. 5

2.1. Dismantling the hour-recorder mechanism of caliber 7736

- 2.1.1. Remove the hour wheel No. 255 and the cannon pinion No. 245.
- 2.1.2. Loosen and take out the screw No. 58710 of the driving-pinion friction spring; remove the driving-pinion friction spring No. 8710 and the winding-pinion guard No. 470.
- 2.1.3. Loosen and take out the hour-hammer screw No. 58680 and remove the hour hammer No. 8680.
- 2.1.4. Loosen and take out the screw No. 58690 of the hour-recorder stop lever and remove the hour-recorder stop lever No. 8690.
- 2.1.5. Loosen and take out the switch-lid screw No. 58641 and remove the switch lid No. 8641.
- 2.1.6. Loosen and take out the conveyor screw No. 58609 and remove the conveyor No. 8609.
- 2.1.7. Loosen the conveyor-spring screw No. 58720 and remove the conveyor spring No. 8720.
- 2.1.8. Remove the switch No. 8640.
- 2.1.9. Loosen and take out the 2 screws No. 58620 of the hour-recorder bridge and remove the hour-recorder bridge No. 8620, with the hour-recorder stop lever still in position.
- 2.1.10. Remove: the driving pinion No. 8630
the hour-recorder runner No. 8600.
For cleaning the movement, it is unnecessary to remove the dial rest No. 145.

- 2.2.2. Loosen and take out the screw No. 52556/1 of the date-indicator driving-wheel and remove the date-indicator driving-wheel No. 2556/1.
- 2.2.3. Loosen the two screws No. 52535 of the date-indicator guard.
Remove:
the date-indicator guard No. 2535,
the date jumper No. 2576,
the date-indicator No. 2557,
the double-toothing hour wheel No. 2558,
the cannon pinion No. 245.
- 2.2.4. Loosen the three dial-rest screws No. 5145 and remove the dial rest No. 145.

2.2. Dismantling the date-indicator mechanism of caliber 7734

- 2.2.1. Remove the date-jumper spring No. 2575 (fig. 6).

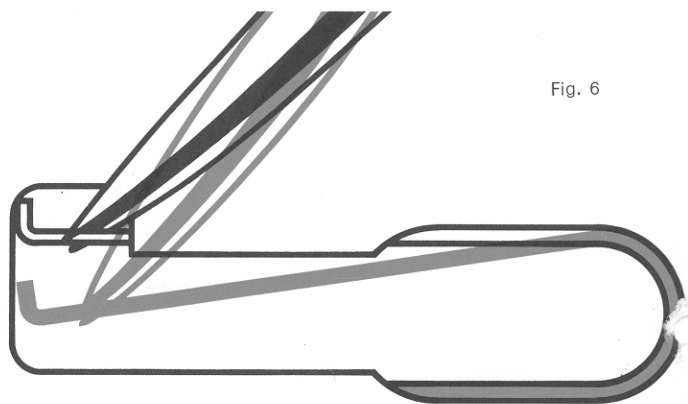


Fig. 6

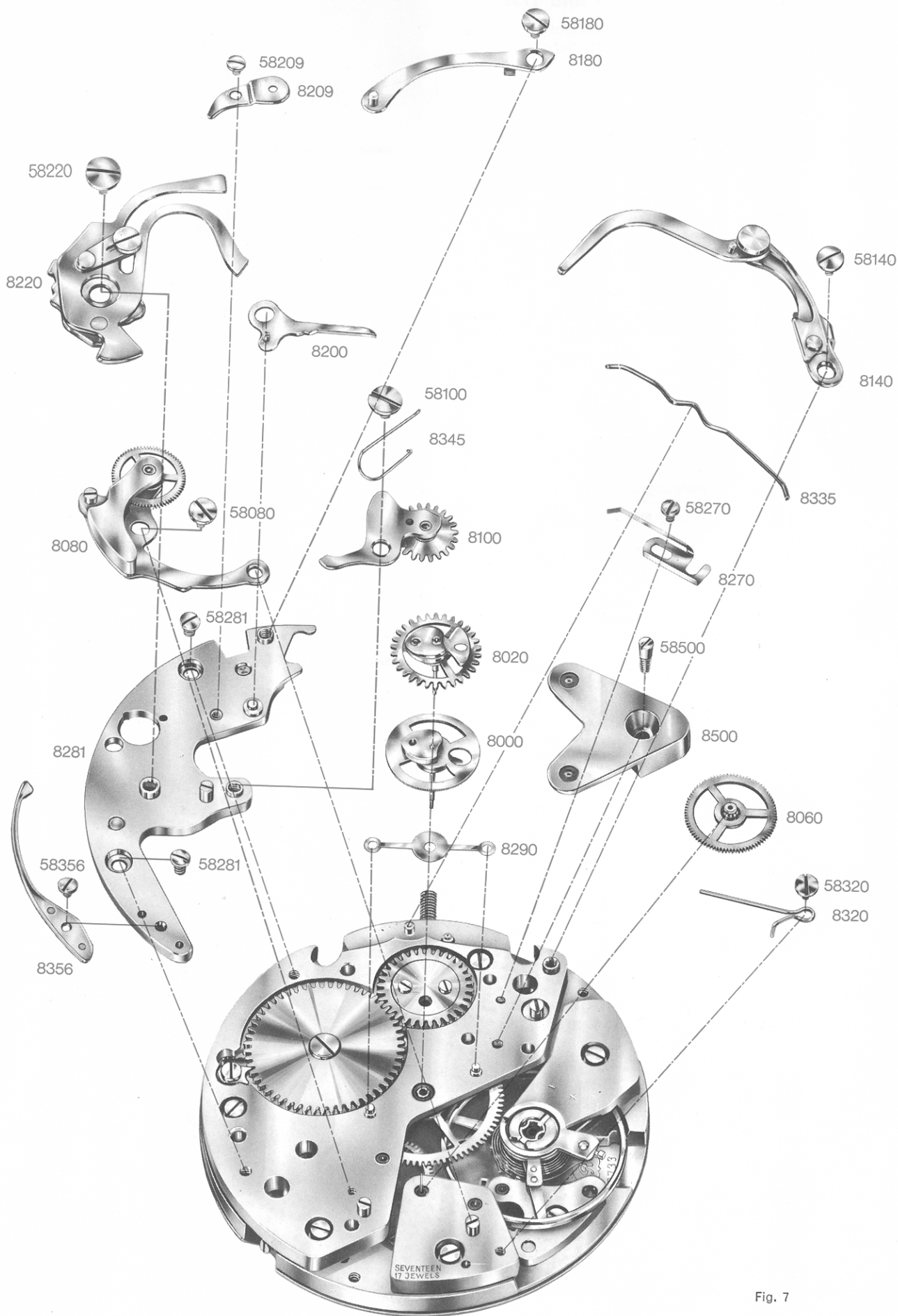


Fig. 7

2.3. Dismantling the chronograph mechanism of calibers 7733, 7734 and 7736

- 2.3.1. Loosen and take out the screw No. 58356 of the hammer-cam jumper and remove the hammer-cam jumper No. 8356.
- 2.3.2. Loosen and take out the hammer screw No. 58220 and remove the hammer No. 8220.
- 2.3.3. Loosen and take out the screw No. 58180 of the fly-back lever and remove the fly-back lever No. 8180.
- 2.3.4. Loosen and take out the operating-lever screw No. 58140 and remove:
 - the operating-lever No. 8140.
- 2.3.5. Loosen and take out the screw No. 58209 of the blocking-lever lid and remove the blocking-lever lid No. 8209, the blocking-lever No. 8200 and the blocking-lever spring No. 8345.
- 2.3.6. Loosen and take out the sliding-gear screw No. 58100 and remove the sliding-gear No. 8100.
- 2.3.7. Loosen and take out the coupling-clutch screw No. 58080 and remove the coupling-clutch No. 8080.
- 2.3.8. Loosen and take out the screw No. 58270 of the minute-recording jumper and remove the minute-recording jumper No. 8270.
- 2.3.9. Loosen and take out the chronograph-bridge screw No. 58500 and remove:
 - the chronograph bridge No. 8500,
 - the minute-recording runner No. 8020,
 - the chronograph-runner No. 8000,
 - the chronograph-runner friction spring No. 8290.
- 2.3.10. Loosen the two screws No. 58281 of the chronograph-mechanism plate; remove the chronograph-mechanism plate No. 8281, the operating and fly-back lever spring No. 8335.
- 2.3.11. Remove the driving-wheel No. 8060, using a suitable tool.
For cleaning the movement, it is unnecessary to remove the coupling-clutch spring No. 8320.

Cleaning

This movement can be cleaned in a suitable machine, with the usual solutions. During the cleaning process, it is however advisable to avoid damaging the teeth of the chronograph and coupling-clutch wheels.

3. Assembling

- 3.1. Assembling the chronograph-mechanism of calibers 7733, 7734 and 7736.
- 3.2. Assembling the hour-recorder mechanism of caliber 7736.
- 3.3. Assembling the date-indicator mechanism of caliber 7734.

3.1. Assembling the chronograph-mechanism of calibers 7733, 7734 and 7736

Important

When assembling the train of caliber 7736, the following parts must first be fitted on the dial side:

the driving-pinion, taking care first of all to lubricate the portion of the barrel arbor with which it works;
lubricate the pivot of the hour-recorder runner on the plate side and fit the runner in position;
fit the hour-recorder bridge and tighten its two screws.

- 3.1.1. Fit:
 - the chronograph-runner friction spring, taking care to lubricate the portion that rubs against the chronograph-runner finger;
 - the chronograph-runner;
 - the minute-recording runner;
 - the chronograph bridge and screw it tight.

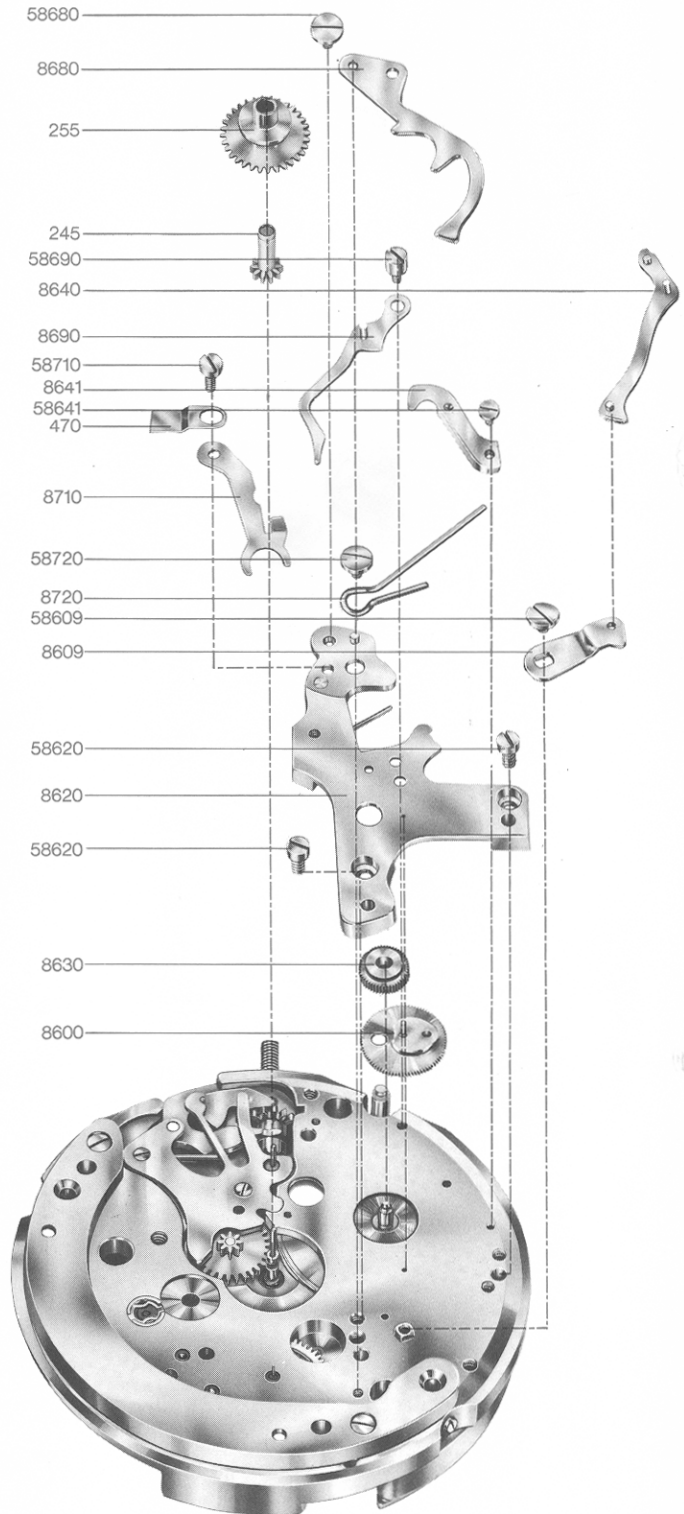


Fig. 8

- 3.1.2. Fit the chronograph-mechanism plate and screw it tight.
- 3.1.3. Fit the operating-lever spring (fig. 9).



Fig. 9

- 3.1.4. Fit the fly-back lever on to its stud and screw it tight.
- 3.1.5. With the reverser in the working position, fit the operating-lever (fig. 10) and screw it tight.

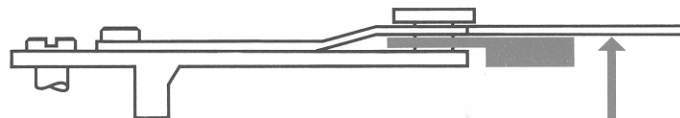


Fig. 10

- 3.1.6. Fit:
 - the sliding gear on to its stud and screw it tight;
 - the blocking-lever on to its stud;
 - the blocking-lever lid and screw it tight;
 - the blocking-lever spring (fig. 11).

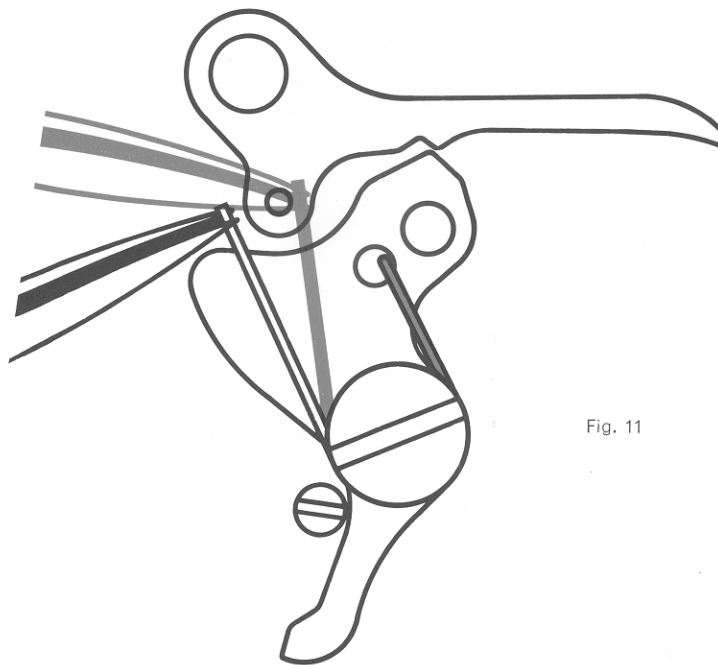


Fig. 11

- 3.1.7. Fit the minute-recording jumper and screw it tight.
- 3.1.8. Check:
 - Regulate the penetration of the finger by means of the eccentric No. 8406 and the position of the minute-recording jumper by means of the eccentric No. 8407 (fig. 12).
 - (In the case of caliber 7736, fit the detent No. 8660).

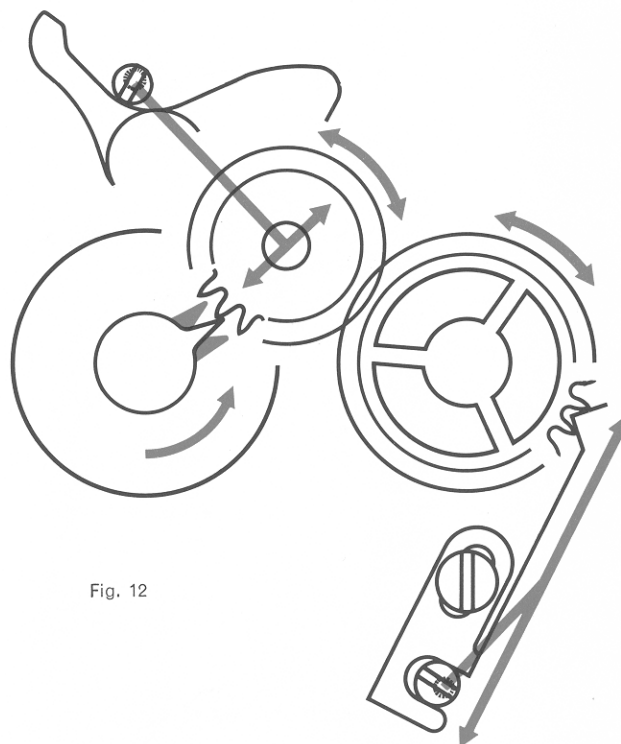


Fig. 12