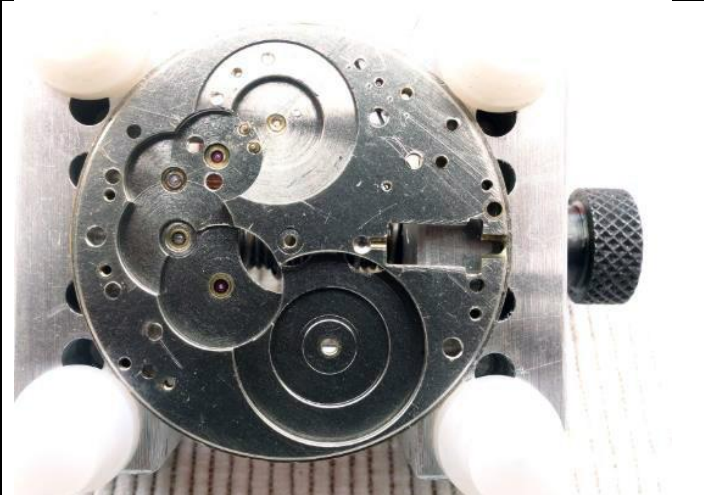
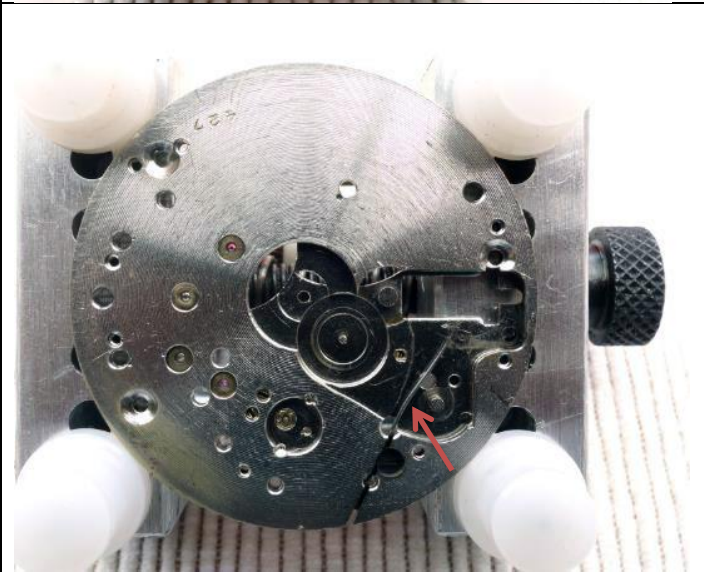


Kirov "Saucepan" Type-1 – Service Guide

If you like to know how to dismantle the movement; just start with the last picture and then go step by step to the first one.

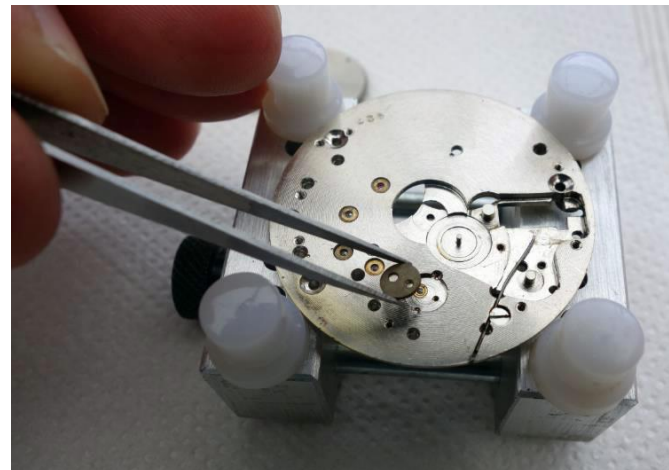
I cleaned the movement part using a soft tooth brusher, cleaning alcohol and a tooth picker to clean the jewel holes. This is absolutely very amateurish, but if you do it carefully it works well.
An ultrasonic cleaner is a better option.

 A photograph showing the underside of the watch's base plate. It is a circular metal plate with various holes and a complex internal mechanism visible through a central opening. The plate is held in place by four white plastic pins.	<p>1 – Base plate bottom</p>
 A photograph showing the front side of the watch's base plate. It features a central opening revealing the internal movement. A red arrow points to a specific component within the movement. The plate is held in place by four white plastic pins.	<p>2 – Base plate front</p> <p>I didn't remove the spring for the winding mechanism (see red arrow).</p>
	<p>3 – Some oil.</p> <p>Moebius D-5 for wheels on front case, winding mechanism, main spring.</p> <p>Red oil pen for 9010 for balance, escape wheel, pallet fork.</p> <p>Blue oil pen for 9020 for a wheels with heavier work like hour wheel.</p>

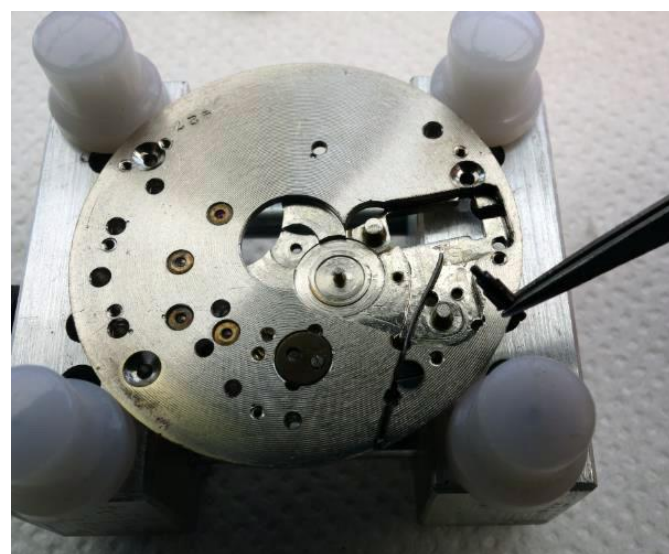


4 - The Wheel train. From left to right:

Pallet fork, escape wheel, fourth (seconds) wheel, third wheel, centre (hour) wheel, barrel with main spring.



5 - Placing the jewel cap for the balance.



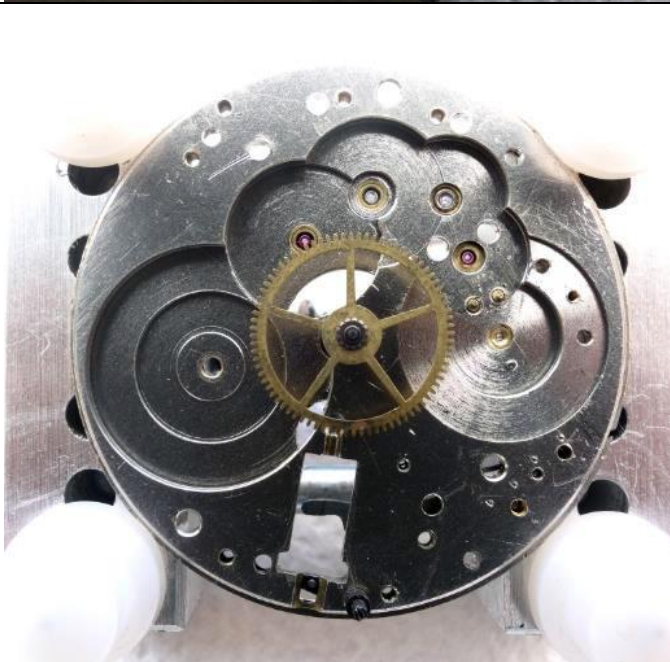
6 – The placement of a part of the winding mechanism.

This is the setting lever screw.
It goes from the bottom side of the plate to the top and fits the setting lever.



7 - Setting lever and clutch lever in place. You need to push the spring a bit to the left to put the lever in position.

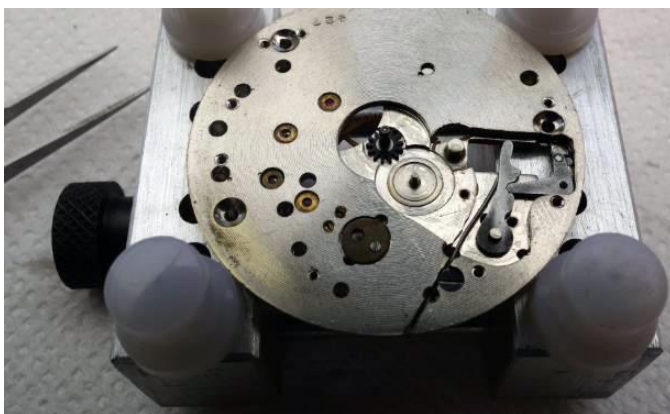
Use moebius D-5 under these parts.



8 - Put and hold the centre wheel in position, turn the base plate and put the cannon pinion on it. Carefully till you hear/feel a click (see next picture).

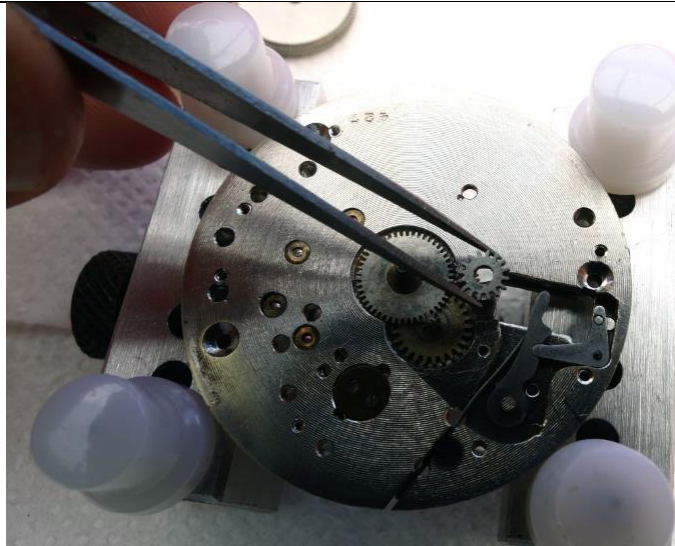
Removing this wheel from the cannon pinion is a rather delicate job...

Use a tool like this:



9 - The cannon pinion back on the centre wheel.

I put some moebius D-5 under the cannon pinion wheel before I add it on the centre wheel.



10 - Adding the hour, minute and hand setting wheels.

Use a little bit of moebius D-5 under these parts.



11 - Mount the bridge.

After that I put the centre wheel apart and add it when the whole movement is ready.



12 – Check the barrel with main spring.

This time I didn't remove the main spring but only gave it a bit moebius D-5 oil.





13 – Put the barrel with main spring and winding stem back in position.

Check if the setting lever and clutch lever (see 7) are in the correct position for the winding stem.

Again I used a little bit moebius D-5 for these parts.

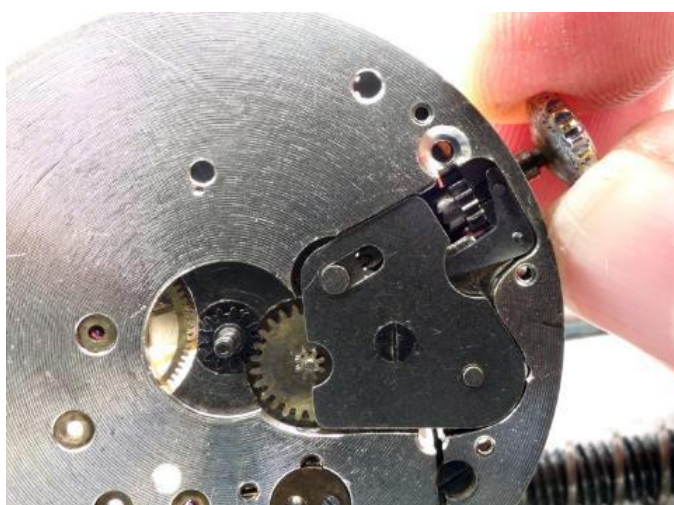


14 – Put the third wheel in position (see red arrow on picture 13). Use moebius 9020 for the jewel.

Carefully mount the barrel and train wheel bridge.

Check continuously the position of the centre and third wheel. Use your tweezers to put them in the correct position. Be 100% sure everything is in the correct position before you use the 3 screws to mount the bridge.

The wheels won't turn freely (the barrel keeps the wheels in position), but if you push the centre wheel a bit you should notice all wheels move a bit.



15 – Check if the winding mechanism works as it should. Does it wind the main spring? Are you able to set the time? (Hour wheel is still not in position here. It was for a check in picture 11).



16 – Put the pallet fork in position.



17 – Mount the pallet fork with the pallet fork bridge.

For both jewels I used moebius 9010.



18 – Put the escape wheel and the fourth wheel in position.

For the fourth wheel I used moebius 9020 and for the escape wheel moebius 9010.



19 – Mount the bridge for the escape wheel and fourth wheel. Use tweezers to get the wheels in the correct position. Again act very carefully. When you think the wheels are in position, use the screws, but don't screw to fast. Try to move the wheels a bit. If everything is all right, tighten the screws. Put some moebius 9010 on the jewels.



20 – Now add the click spring and the click.

It's not a bad idea to make a picture of the click spring before you remove it.

Then mount the crown wheel (this one consists of 3 parts).

Warning: turn the screw

counterclockwise to tighten!

See red arrow on the picture.

A screw of the crown wheel always go the other way around then normal screws!



21 – Now mount the ratchet wheel on the barrel.

And finally put the balance in position. Again be very careful. Use your tweezers to put the balance wheel in position, double check the spring. Give the wheel a little swing and check if the wheels are moving. Lightly mount the balance bridge with the screw and check the balance wheel again. Everything all right? Tighten the screw.

Now I put the regulator of the balance in the middle and wind the main spring. I have no fancy tool to check the beat, so I check the time every couple of hours and if necessary I use the regulator to adjust the movement. After 24h it is running 30 seconds to fast. Not bad at all...



22 – Turn the movement, put the centre wheel in position, add the dial (tightened with 3 little screws on the side of the movement). Add the seconds, hour and minute hand.

Everything put together. Not the best dial, but this 2nd MWF – Kirov Type -1 watch from 1939 is running again.

Hans Selles
August 24th 2014

An overview of all parts.

