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The place to come for all your Bulle and Eureka restoration parts.

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Bulle Clock Serial Number 158805

*Restoration of Bulle Clock
Serial Number 158805*

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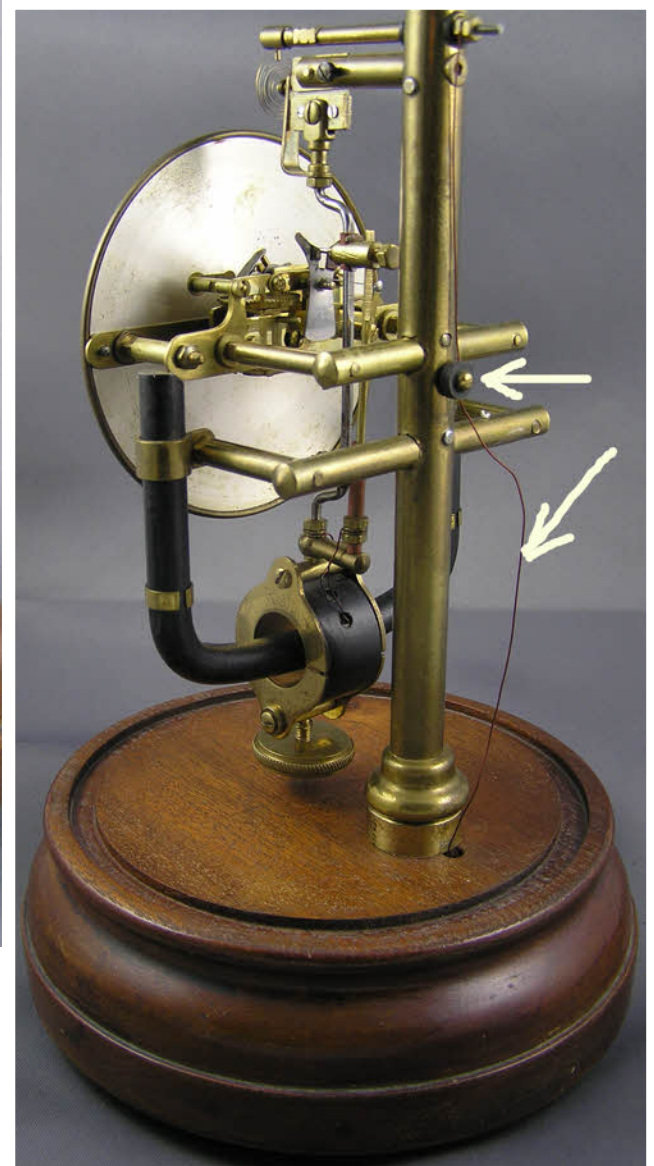
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Photos by kind permission of the owner.

This clock is a standard clokette on a turned wood base. The base looks to be in good condition though a little tired. It will benefit from a cut back and wax polish. The dial is pretty good with just the usual scratches acquired in it's normal working life. Other than the base decoration the clock is nearly identical to 205535..



There are some initial signs though that this clock has had a difficult life and shows signs of bad repair practises. We will see more as the restoration progresses. Note the non standard wire and insulation (arrowed).

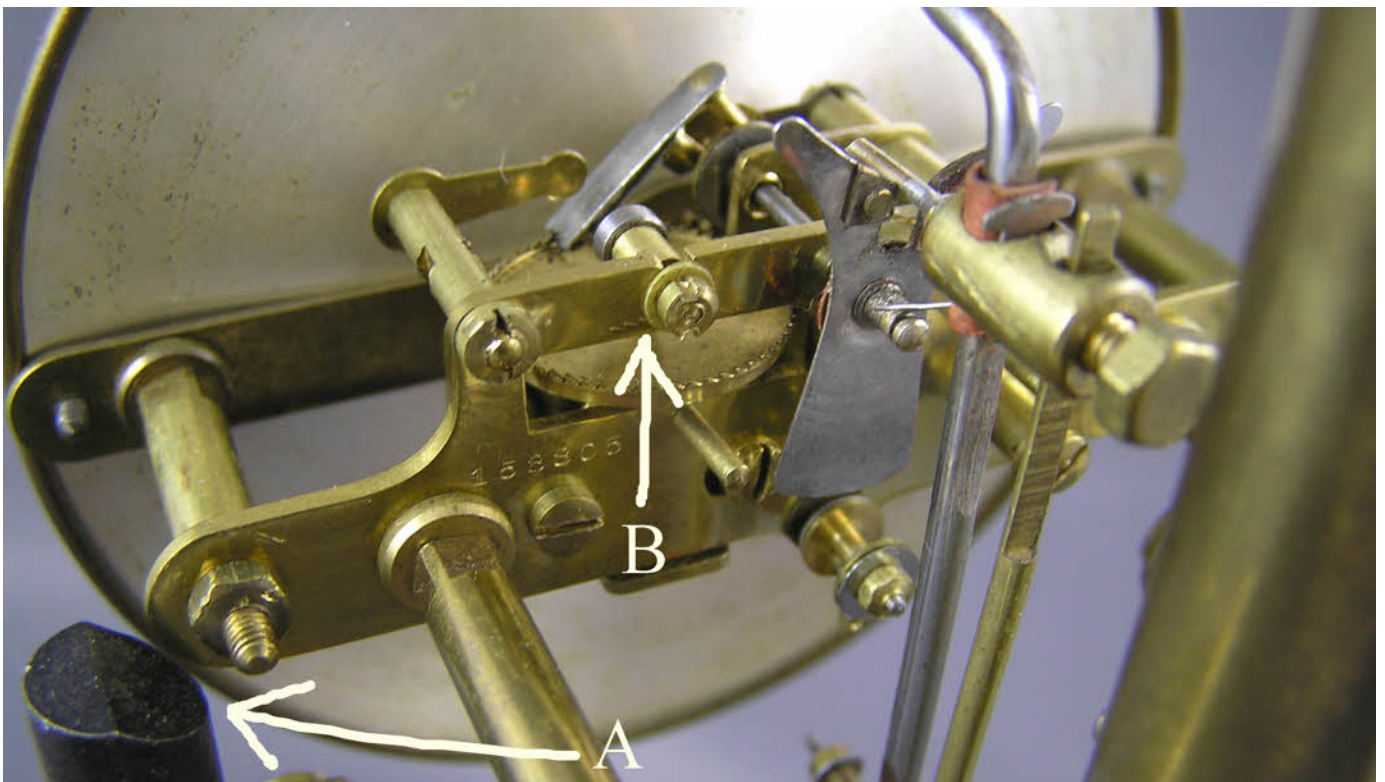
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Detail of the base which is a little dull.

The photo below shows the movement with a couple of points to be noted. First notice the cut away (A on the magnet to allow it to be raised just a little closer to the movement. There seems to be an superfluous washer added to the count wheel free play adjuster (B).



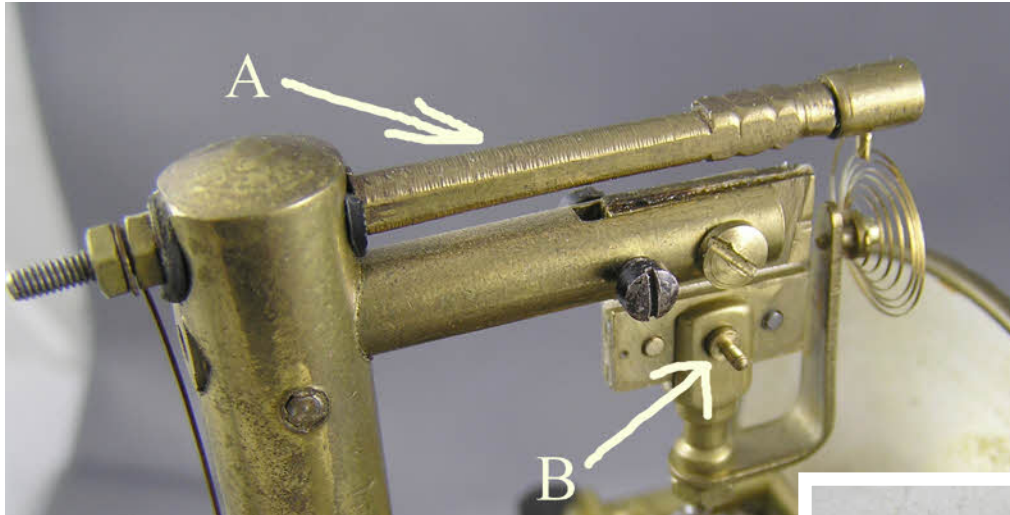
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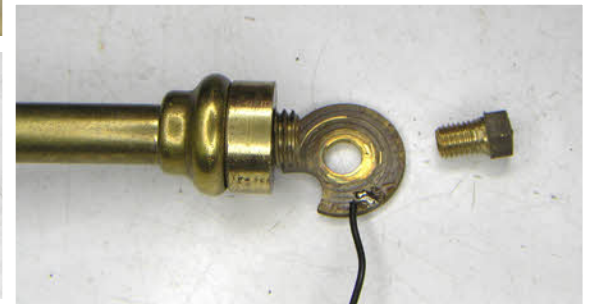
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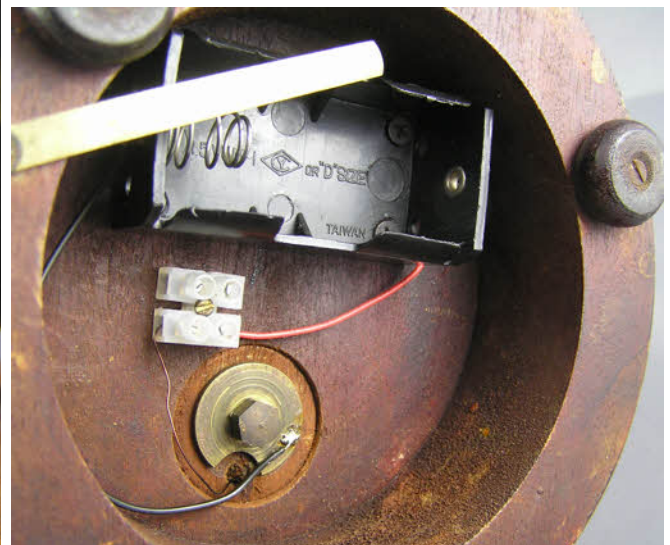
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This photo shows the replacement arm that carries the supply to the hair spring. It is not original and seems to be made up from various scrap piece as seen below and left. This will be replaced with an original. The lower suspension assembly is also missing its nut (B).



The photo bottom left shows the coil assembly. The bare wires suggest problems in the past and will need investigation. The photo below shows the underside of the base with the battery holder screwed on and the negative lead soldered to the base of the column. Both bad ideas.



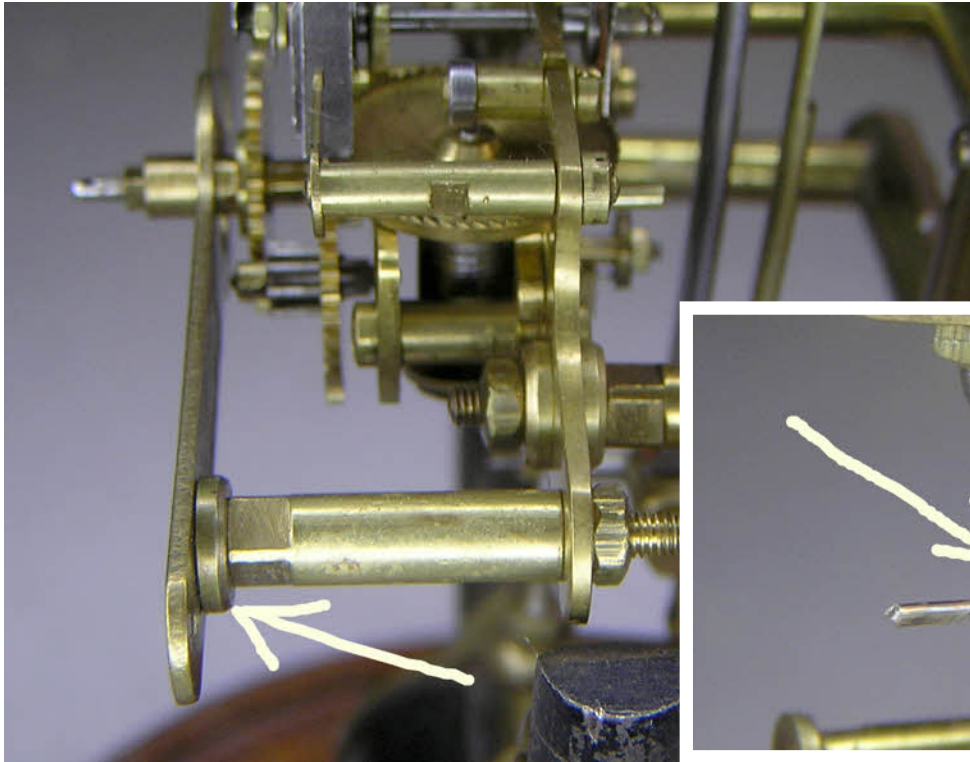
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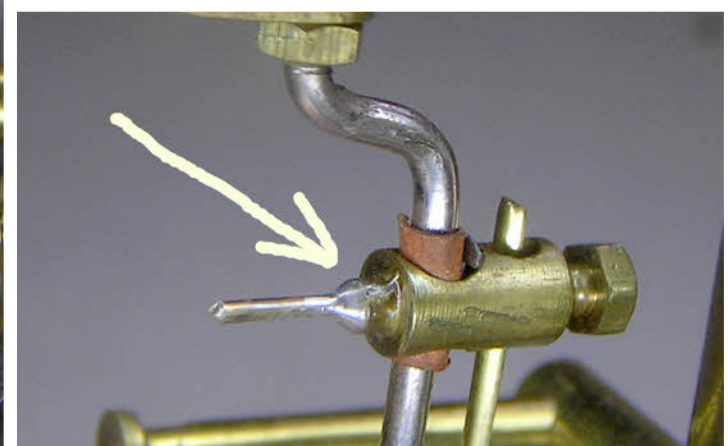
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This photo shows the thick washer behind the dial support cross rib. It is far too thick and looks to be from another part of the clock. Two thinner washers will have to be made.



The photos above shows the replacement contact pin which besides being too thin is also soldered into the assembly instead of being screwed.

I didn't notice until taking the movement off the frame that it was missing the insulating washers and was therefore in contact with the frame as shown by the arrow in the photo left.

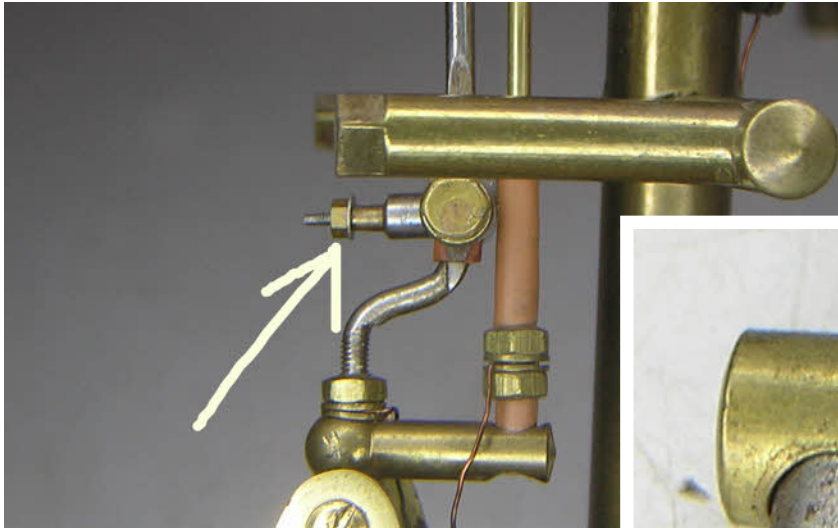
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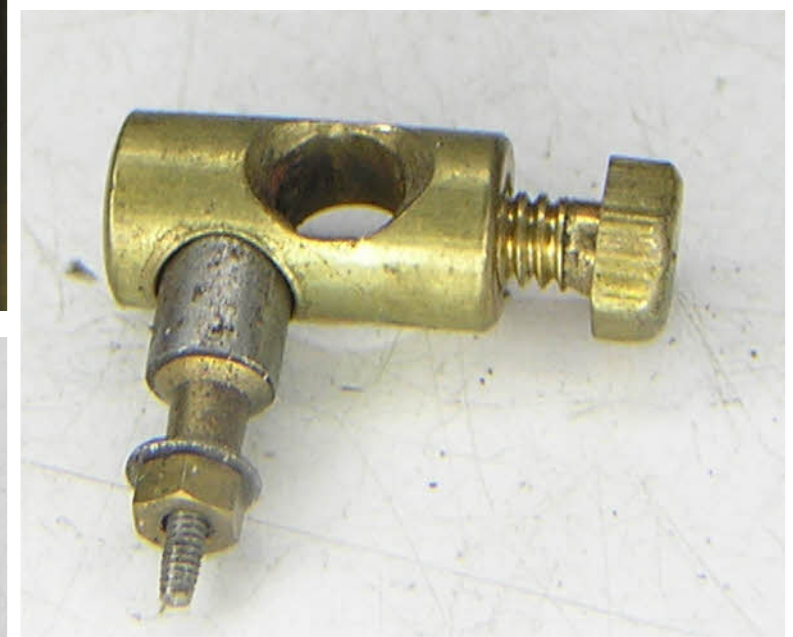
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The lower Isochron bracket on the pendulum is missing all of the bobbin, washers and "T" piece. All will need to be replaced.



The dial, left, is held on by replacement countersunk screws. These are no original and should be brass with a slight dome head. There use has also damaged the thread inside the support arms. Slightly larger screws will be made and the support arms tapped to accept them.



I'm almost afraid to look at the underside of Bulle rating nuts!!! You can see why in the photo at left. I would hazard a guess that 50% of clockettes have had the rating nut modified by drilling or cutting, to try and reduce weight. This will need to be machined aup and a new insert added.

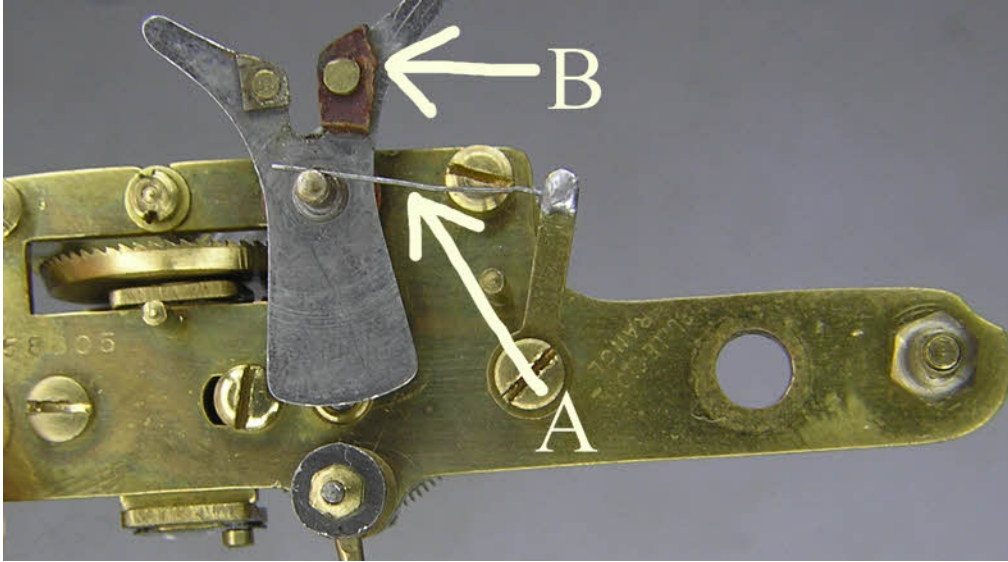
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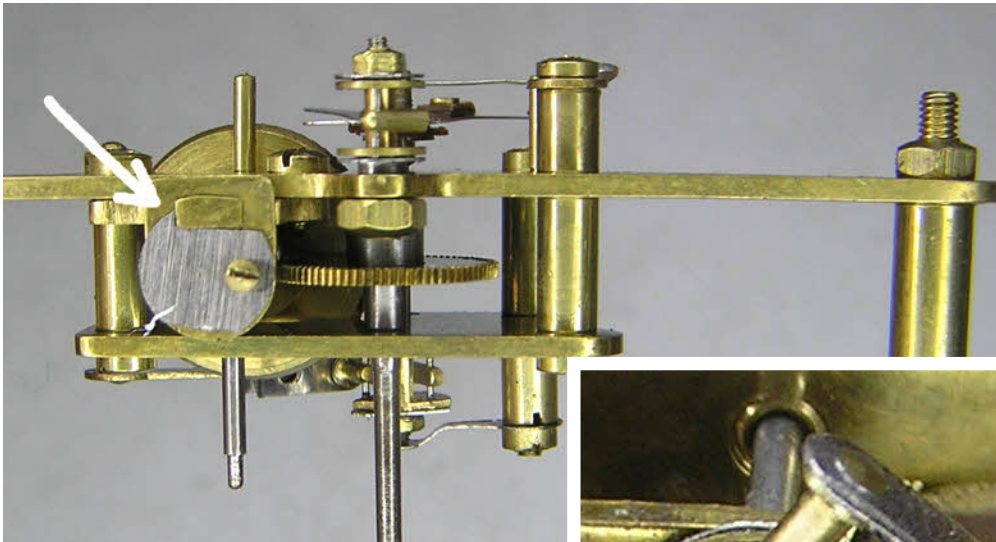
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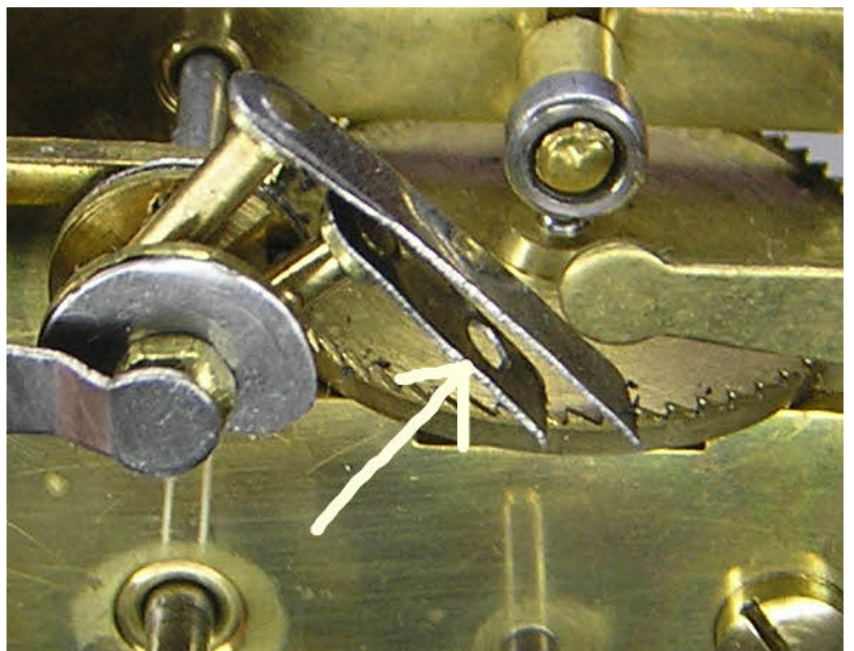


This is novel. A strong piece of spring wire has replaced the silver contact spring to try and maintain contact between the frame and fork arbour. It will be replaced and the solder removed.



Although this looks wrong it may have been done at the factory! The steel washer that support the end of the count wheel arbour has been cut away to clear the protruding rivet. This will be reused on assembly.

I thought the rest of the movement looked to be in good order until I noticed the driving pawl as shown in the photo at right. The small domed brass rivet which acts as a weight is missing completely and will need to be replaced. I have never come across one of these missing before. It also transpires that the 0.5mm piano wire that is riveted into the long stop pawl is loose and will need to be reset.



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Both the silver and fibre contacts will need replacing.



Here we see in more detail the drilled out rating nut.



The photos above and at left show the stages in correcting the rating nut damage. The nut has had most of the holes turned out on the lathe with a new solid piece of brass inserted and machined to fit. The only give away is the small ring. But this will be on the underside and will not be seen.

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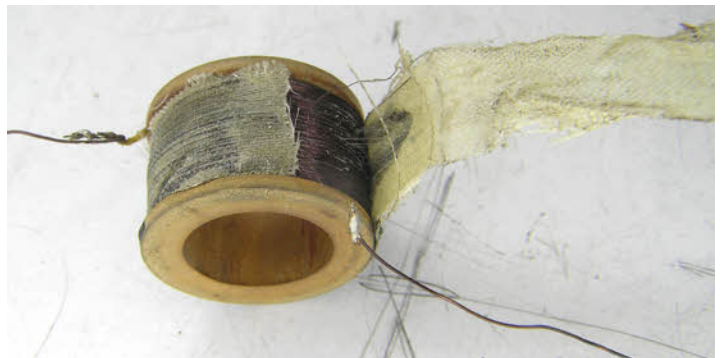
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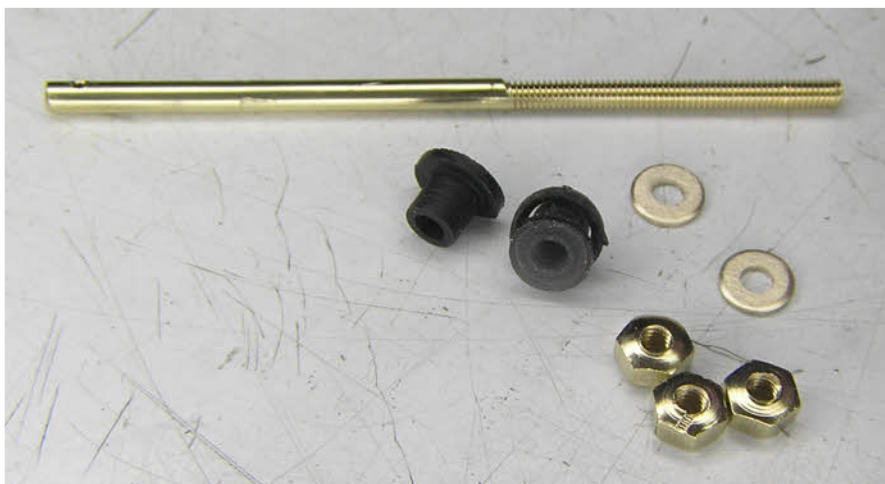
The old pin removed and the new threaded pin inserted.



Above we see the slightly damaged coil casing which will be straightened as much as possible before re-spraying.



The coil was bound in sticky tape and had single core wire replacing the original. The tape was removed and the coil tidied up and new lead out wire soldered on. The coil was then tested for a normal resistance range of between 1050 and 1250 Ohms.



This last photo shows the new arm that carries the power to the hair spring, along with new nuts fibre and brass washers.

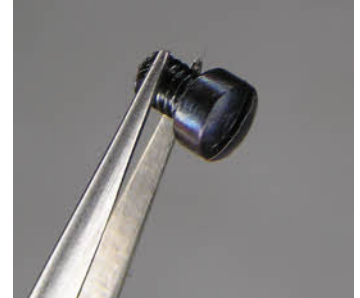
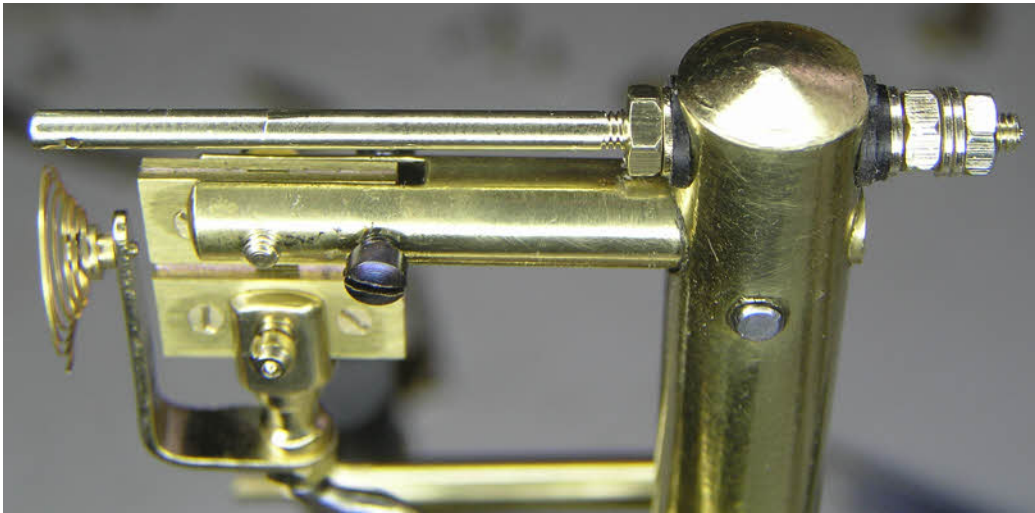
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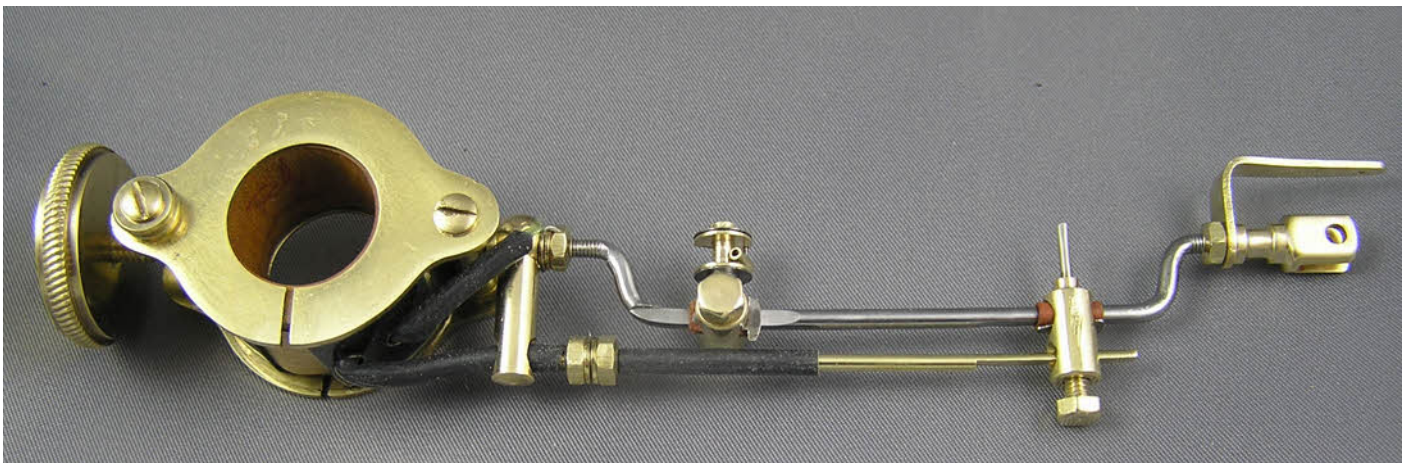
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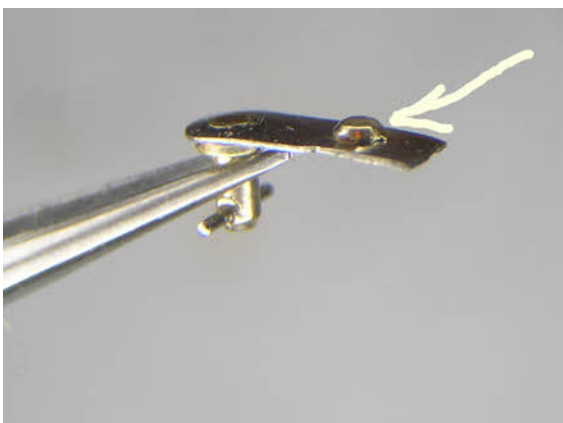
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These two photos show the arm in place with the two steel suspension screws newly blued.



The re-assembled pendulum tested and ready to be inserted back in the frame. It is important at this stage, to check that the resistance is correct between the contact pin and the suspension bracket. It should be between 1050 and 1250 Ohms. Also make sure that the lower Isochron bracket assembly is insulated from the steel pendulum arm.



At left is the driving pawl with the new brass rivet.



Right as the new dial step washers that were missing from the clock..

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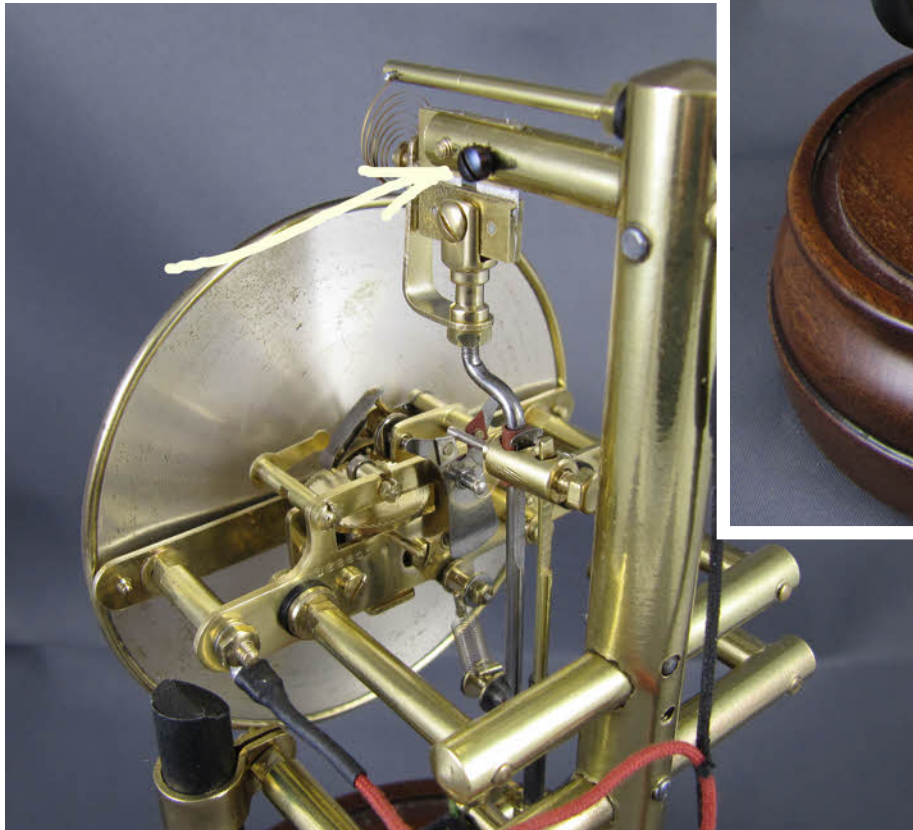
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The base cut back and polished.



The movement and rear of the completed clock.

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The completed clock.