



Bulle Clock Serial Number 57470. *(By kind permission of the owner)*

Restoration of Bulle Clock Serial Number 57470.

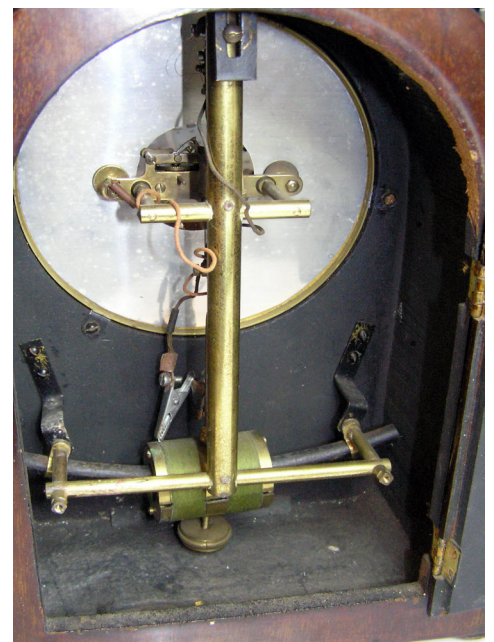
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—Early Battery Clock Parts & Restoration

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The renovation of this $\frac{3}{4}$ movement is reproduced here by kind permission of the owner. The movement is fully enclosed by this lovely mahogany case. Only the movement of the pawls is visible through the dial aperture. The case has some subtle inlay which the inset photo shows in more detail. The dial, bezel and wood work are all in very good condition and will only need a dusting and polish. The first impressions of the movement leads us to think it is also in good condition.

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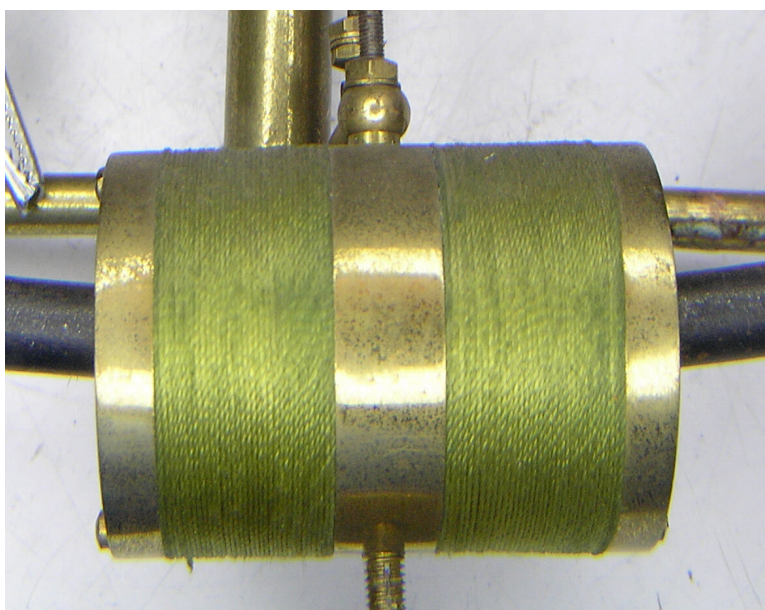
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The suspension has a few problems. The suspension itself is made up from an old unit and is too thick for the support arm. The sides of the arm have been spread to accommodate. All of the screws and nuts are wrong. And must have been replaced at the same time as the suspension. It would seem probable that the suspension was taken out when it failed and not replaced for a long time. Meanwhile the screws and nuts were lost. They were then replaced with these steel ones. There are also two Blued steel screws missing from the rear of the suspension. These act to stabilise and clamp the suspension in position. All of these will need to be made.



Bar the tarnish the pendulum bob is in excellent condition. The cord is very dirty but is complete and has retained a good colour. We must try and keep this intact and endeavour to clean the brass without touching it. This takes a lot longer but is well worth it if we can retain the original cord. The best way I've found to protect the cord is to wrap it carefully with a low glue masking tape. This tape will only adhere lightly to the cord and can be easily removed if done so within a few hours. Otherwise there is a danger of pulling or ripping the cord. The brass can then be worked on with cleaner and "0000" grade wire wool before removing the tape and then washing the whole thing, including the cord, in warm soapy water.

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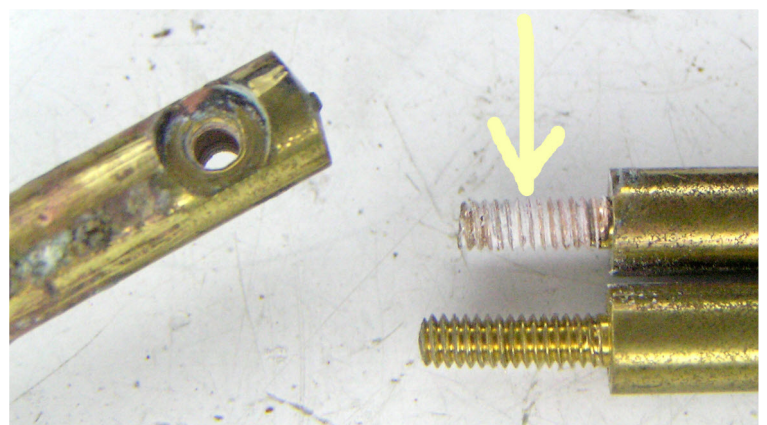
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The coil also is in excellent condition giving a constant 1240 Ohm resistance reading. The copper wires are also clean and free from corrosion.

The frame has not fared so well though. As can be seen there is corrosion on the lower frame and magnet supporting arm. This has resulted in some damage to the brass and also the thread of the arm. These parts will need to be soaked in the usual solutions to remove all traces before polishing. Note also that the thread is shorter than the its mate on the other side. Fortunately there is still more than enough to capture the short arm at the rear.



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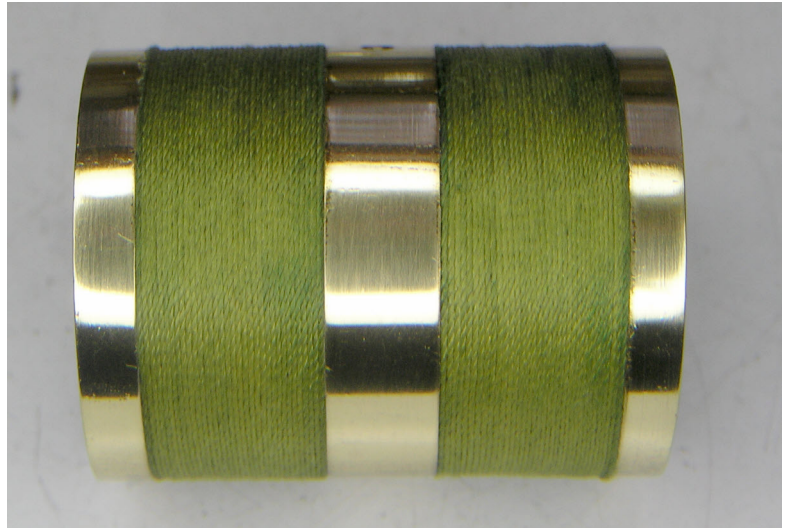
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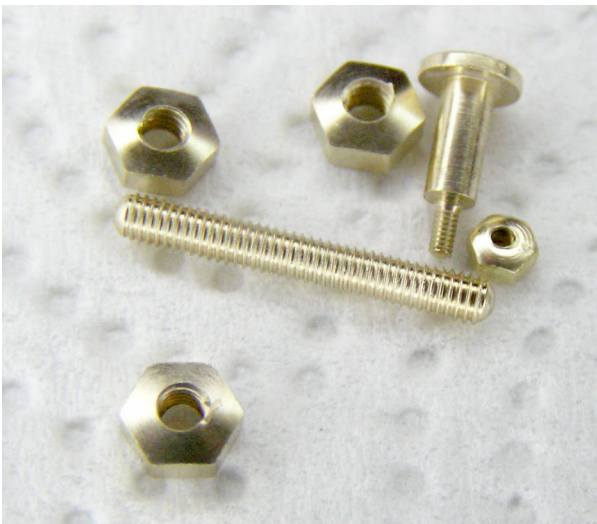
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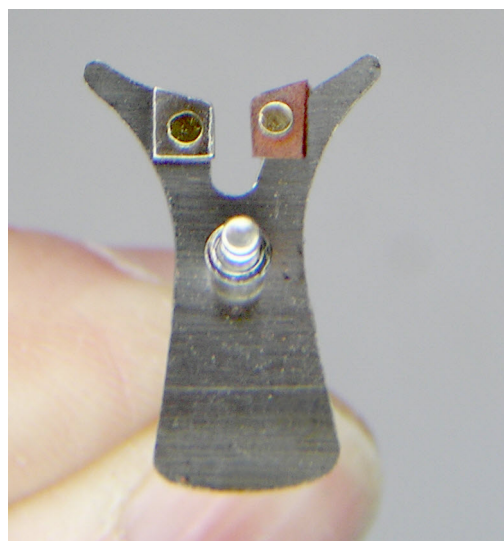
The pendulum bob masked up and ready for cleaning.



The pendulum bob and cord after cleaning. The masking tape worked very well and we have succeeded in retaining the original cord.. I used a small tooth brush to give the cord a gentle scrubbing while immersed in the warm soapy water. After drying the cord was again wrapped in masking tape while the brass was spray lacquered.



These items were made to replace the steel nuts & screws that were wrongly used on the pendulum assembly.



The fork is shown here after the fibre contact has been replaced. The silver side is in good condition and, along with the silver end to the arbour, has been cleaned and polished to provide a good electrical contact.

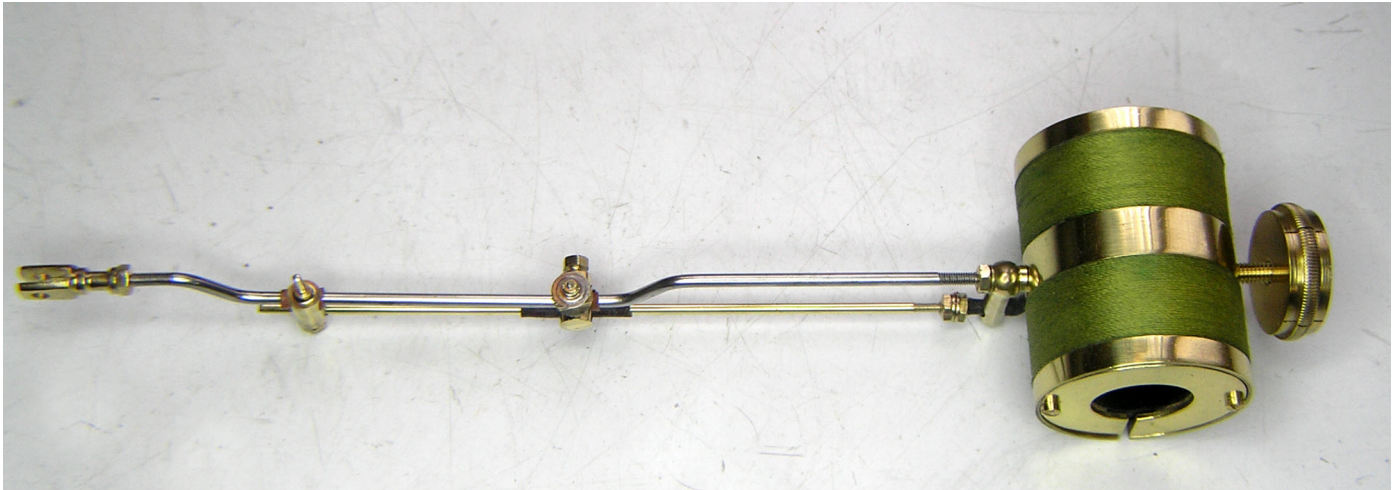
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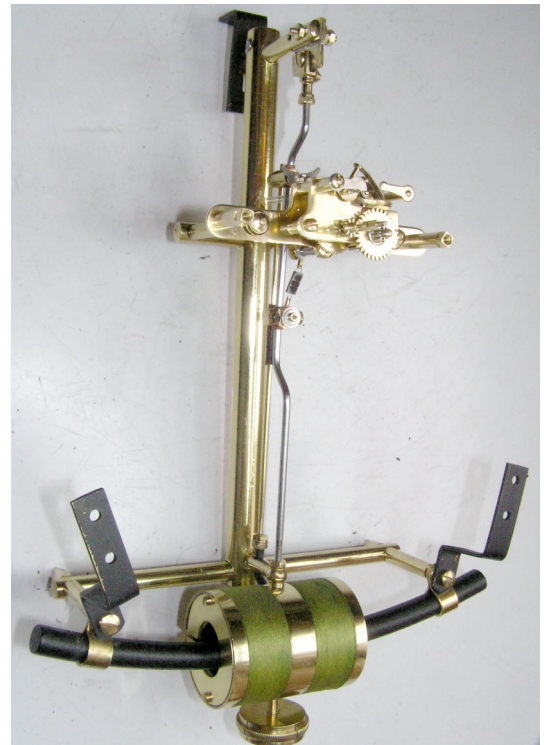
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The pendulum reassembled ready for attaching to the frame.



The pendulum assembled with the frame using the new parts. Note the two new blue steel crews that grip and position the top of the silk suspension.. The photo at right shows the whole movement, pendulum and frame with the case brackets ready for insertion into the case.

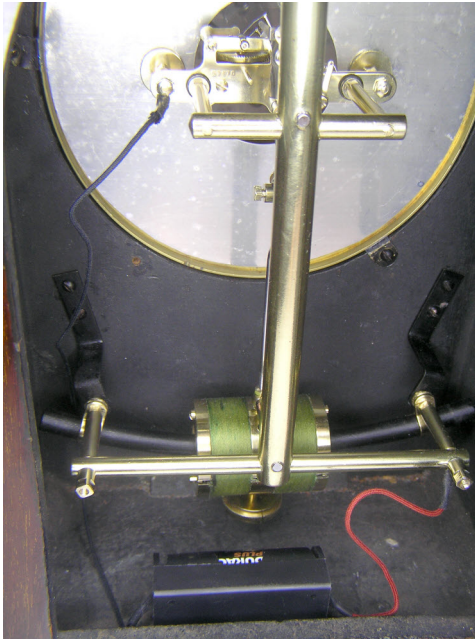
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The insert photo above shows the Bulle movement and frame from the rear of the clock. The dial is in excellent condition and only needed a wash with warm soapy water. The case, although it has a few marks and blemishes, needed no more than a good going over with wax polish.

The finished clock



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