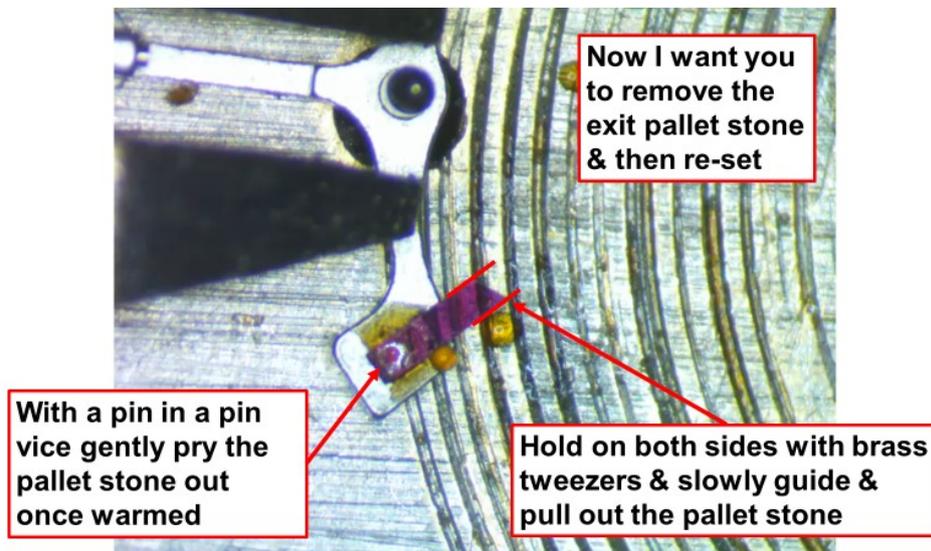


## Setting Pallet Stones : Weekend Course 6<sup>th</sup> & 7<sup>th</sup> August

The Saturday and Sunday weekend for making a pallet stone warming tool and spirit lamp is coming up on Saturday 6<sup>th</sup> August and Sunday 7<sup>th</sup> August.

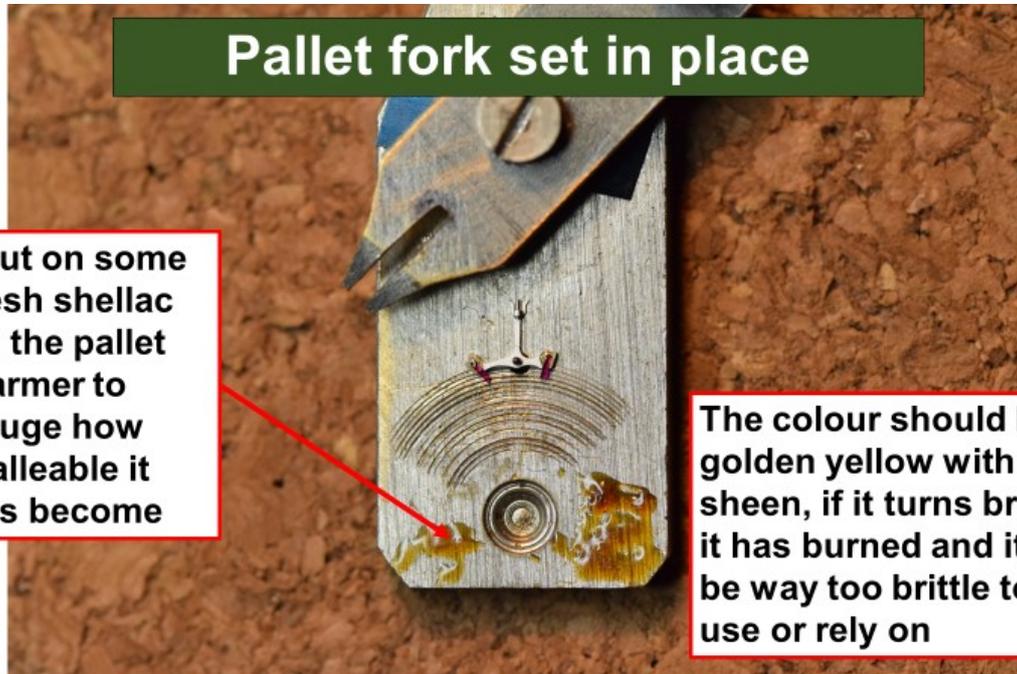
Here's some excerpts from the PowerPoint presentation that contains plenty of photographs and microscope videos to help understand the theoretical principles, but to also put those premises into practice.

This is aimed more towards the second-year watchmaking students, but there is no reason why any first-year students couldn't learn and perform the task of changing a pallet stone, as is so often needed to be done.



This will take anyone's ability and understanding of the Swiss lever escapement to another level, not just on a theoretical level, but also on a very practical one! This is proper watchmaking!

Any clockmakers who work on Swiss platform escapements, especially carriage clocks, will benefit greatly learning how to change pallet stones or/and reset the depth of lock, but also how to clean and lubricate non-shockproof balance cap jewels within the platform escapement.



The lessons will be between 10 am to 6 pm, with an hour and a half for lunch and breaks on each day, so that's approximately 13 hours of learning over two days.

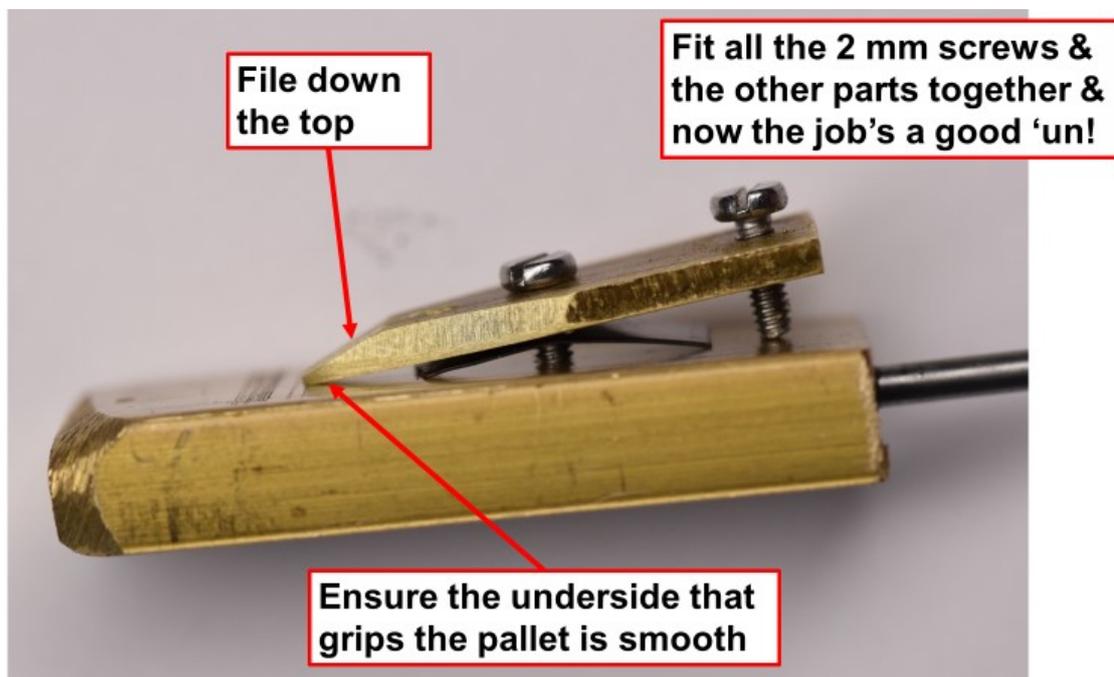
You'll learn how to use a pillar drill, a coping saw, precision files, as well as using a tap and die to make the tool needed to set any pallet stone, from the smallest ladies watch to a carriage clock or car clock and pocket watch to wrist watches.

**What NOT to do:**

- **Never begin to check or adjust the escapement starting with the pallet jewels**
- **Never attempt to correct the clearance of the guard pin by means of the banking pins. The banking pins can only be moved to adjust the horn shake**
- **Don't correct the 'run to banking' by moving, bending or filing the banking pins**

**What TO do:**

- **Start from checking & adjusting the horn shake via the banking pins**
- **Check & if necessary adjust the guard pin shake**
- **Run to banking is adjusted by moving the pallet stones**
- **Adjust pallet stones penetration according to the minimum of locking & run to banking position**



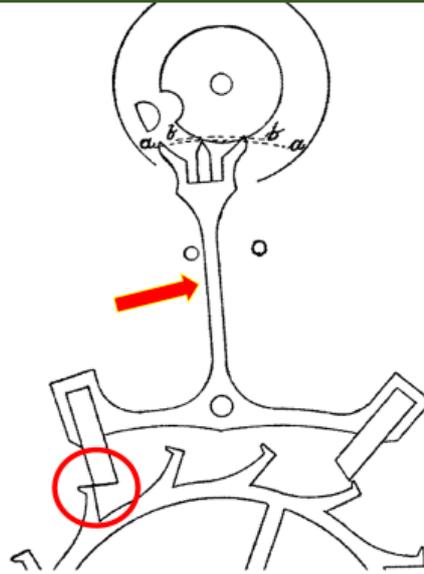
A good stereo binocular microscope is a must to carry out the task of removing, replacing and setting pallet jewels.

If you don't own a microscope of suitable magnification, then I can lend you one, but only if you don't own one, rather than you can't be arsed to get it there!

## Guard pin shake

The clearance between the point of the guard pin and small roller should be sufficiently great to ensure that the play (side-shake) at the pivots of the pallet staff and balance cannot allow these parts to come into contact.

The clearance between the guard pin & small roller cannot be so large that it allows an escape wheel tooth to unlock from the pallet stone. If that happens the watch will stop.



The cost of the course is approximately £120 to £130 for EFHC members (TBC) with material costs of about £20 per person, depending on how many attend the course. There needs to be at least four or five students to make this viable.

Could those who wish to attend this course, please let me know, as soon as possible?

Many thanks

Jon

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