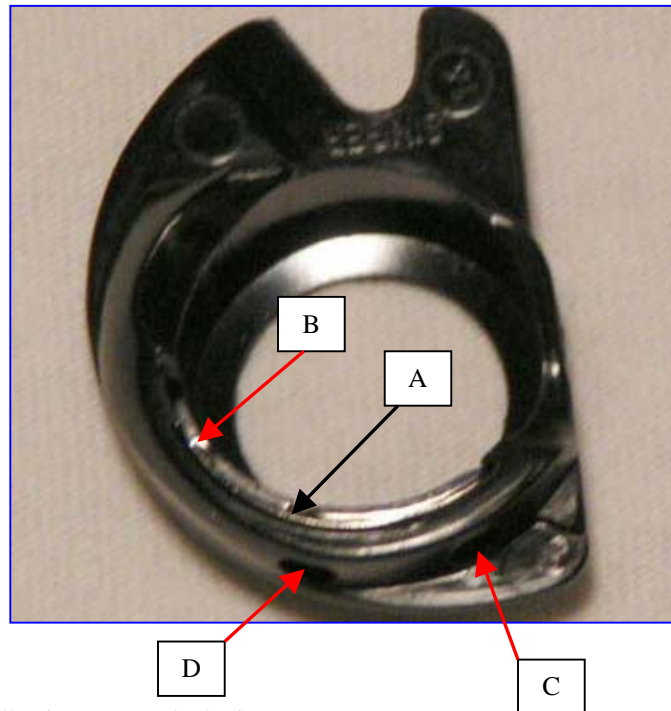


## Apollo Bobbin Case Threading & Cleaning



- Insert the bobbin so it will spin counter clockwise
- The thread will pass through the first slot (A)
- Pull the thread over to the second slot (B), and lay across the top of the bobbin towards the needle

Should the thread not complete its passage to slot B, the slot may be blocked with lint.

There are two screws that hold the unit together. One screw, far right, is the mounting screw for the pressure spring, and tension back plate (for a lack of better terms). Screw two, far left, is the tension adjusting screw for the bobbin case.

To remove:

- Remove screw C
- Remove screw D, try to count how many times it makes either full turns, or half turns, before it is removed
- Pull the two metal pieces out, and clean any debris that may be in between the two metal pieces
- If rusted, or pitted, replace the springs, or entire bobbin case
- Place the two pieces back into the slot of the bobbin case, spring goes outward, solid bracket facing inward to the middle of the bobbin case
- Start screw C, but do not tighten all the way just yet
- Start screw D, and then tighten screw C
- Tighten screw D the same times as counted when removing, if able

Hope this cures threads popping out of the slot, and helps improve the tension control.

This is a temporary guide to assist in repairing. Actual tension is preset at the factory.

If adjustment, or counting is not possible, a good starting point...if I recall correctly...is to place a bobbin in the bobbin case, pull some extra thread out, and tie it to the a needle plate. Allow the thread to flow as it would during sewing, over the top of the bobbin, and out towards the front of the case by the two forks. Tilting will help. The needle plate will very slowly drift to the ground. In keeping it short, am at a lost at the moment to provide a better description. The flow of the needle plate may stop, and may not travel evenly. Could be due to the quality of thread used, fuzz content and such. Giving the bobbin case a little up & down movement will help judge the needle plate flow to the ground. It should not just drop right to the ground.

Hope this helps until I can provide a better "how to".

Terry