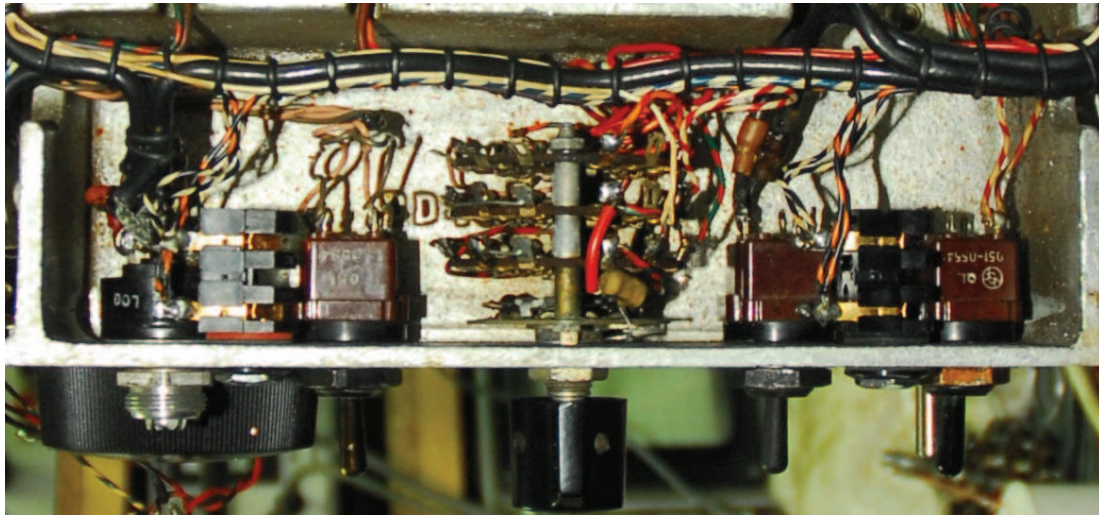


## Racal RA17 Ser. No. N371, 2nd report, 28/03/19

This is the second progress report on the refurbishment of RA17 MK1 serial number N371. Having now received and fitted the replacement for the faulty System Switch (S5), work has progressed well. I have also managed to find a correct locking nut for the auxiliary volume control and replaced the Noise Blanker Switch with the correct type of switch.

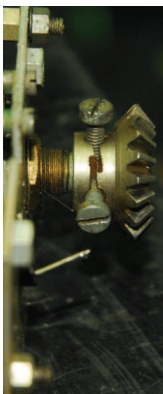


*Locking Nut*

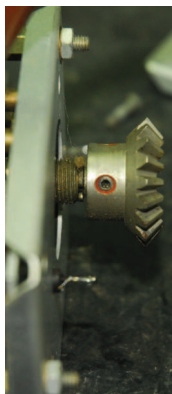
*System Switch*

*Noise Blanker  
Switch*

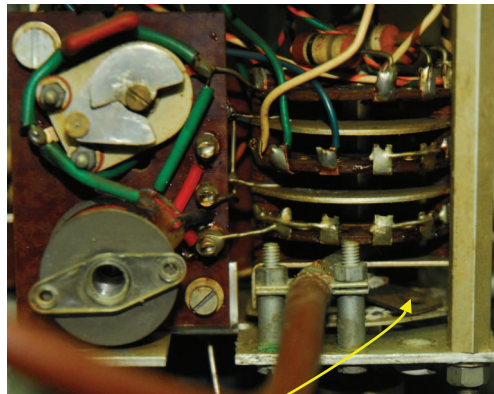
With the receiver confirmed as operating and sensitivity looking good, the 100KHz IF-strip is logically the next module to refurbish. Like the 1st and 2nd VFOs, it can be completely removed from the main chassis. Prior to refurbishing this section it is necessary to first remove the long control shaft which operates the wafer-switches in the Crystal and L-C Filter sub-modules. It was here that I discovered that there was a significant issue with the Crystal-Filter module. The most obvious thing was that there was no obvious positional detent. Secondly, the 6BA grub-screws had been replaced with 4BA Cheese-Head ones!



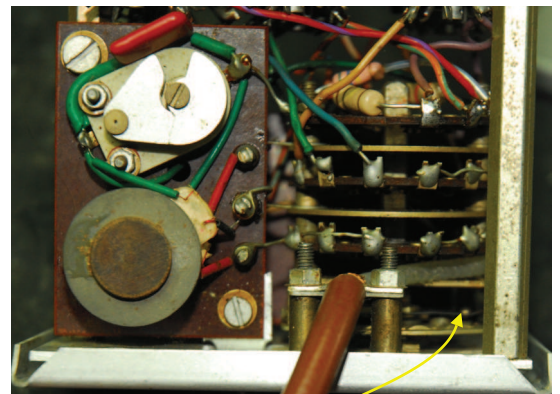
*Wrong!*



*Correct*



*Missing ball-bearing*



*Ball-bearing*

Also noted was that the top vane on the trimmer capacitor was bent up and the inductor was not secured to the Tufnol plate. Clearly this module had been 'worked on' at some point. Two extra holes in the screening can indicated that someone may have been attempting to modify it. Fortunately I had a spare MK1 Crystal Filter module and simply swapped the damaged one out.