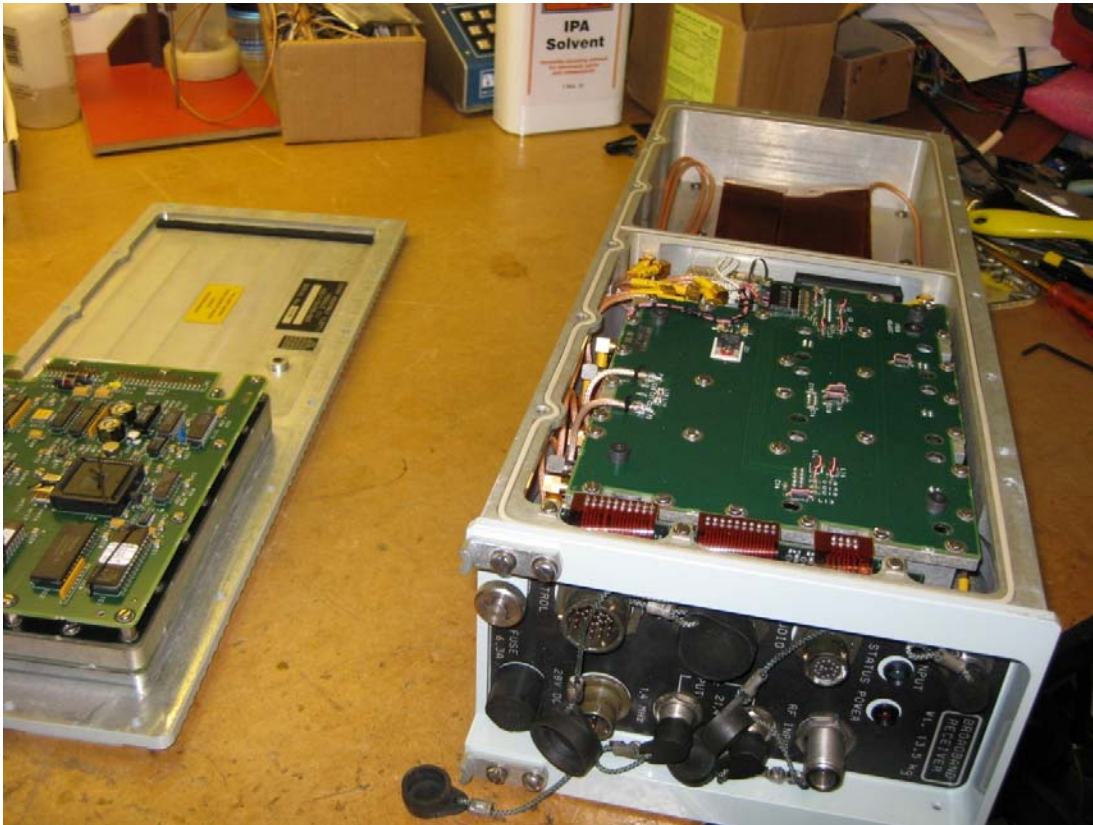


# EPROM Replacement in Plessey PVS38XX Receivers

Martin Steele G7CKX November 2010

- 1) Remove the 18 hex screws from the left hand side of the receiver.
- 2) Gently try to hinge up the lid from the front, and as you do so remove the 3 coaxial connectors and the 2 flexible PCB header plugs from the lid assembly. This will separate the lid from the main chassis.



- 3) The PCB that contains the EPROMS is part of Module 11 which is part of the lid assembly which is where we will be working.
- 4) First Remove all the screws to remove the "Top PCB" in the stack of 3 (**Fig1.**)
- 5) Then on the middle PCB mark with a suitable pen, the holes that have PCB pillars in them and remove the PCB pillars.
- 6) Remove the remaining screws that hold the middle PCB down, and then remove the middle PCB from the bottom PCB and lid. (**Fig2.**)
- 7) Burn the contents of the two .HEX files (they were saved as industry standard Intel HEX format) into two blank 27C256 EPROMS and label them accordingly. One will be "PVS3850\_Hi" checksum is FE704 and the other is "PVS3850\_Lo" checksum C133C
- 8) Mark the 2 original EPROMS so that you know where they came from (if you ever need to put them back in) and they can now be replaced with ones made from the Intel Hex files in previous step. (**Fig3.**)

- 9) Check the EPROMS for bent pins and correct orientation then reverse the disassembly process to rebuild the receiver.

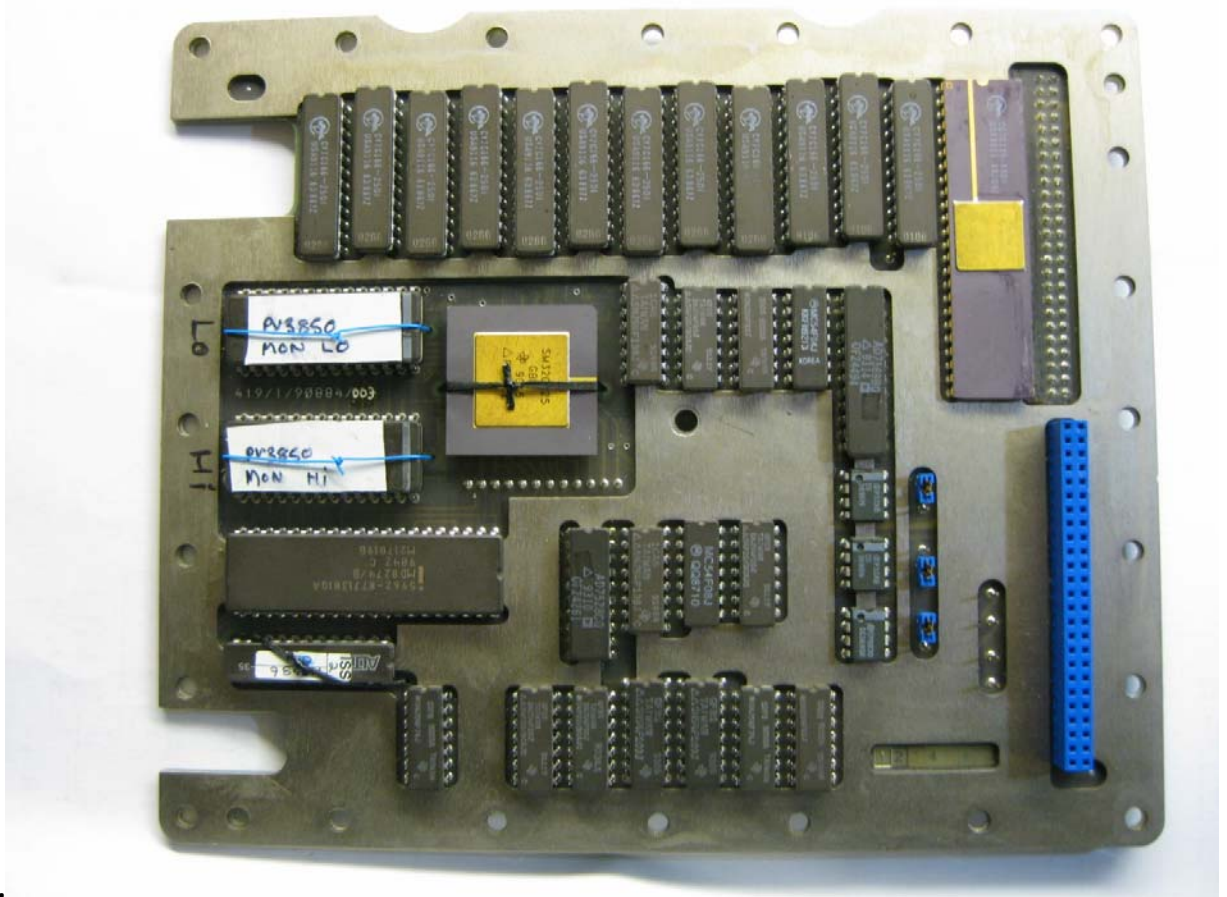
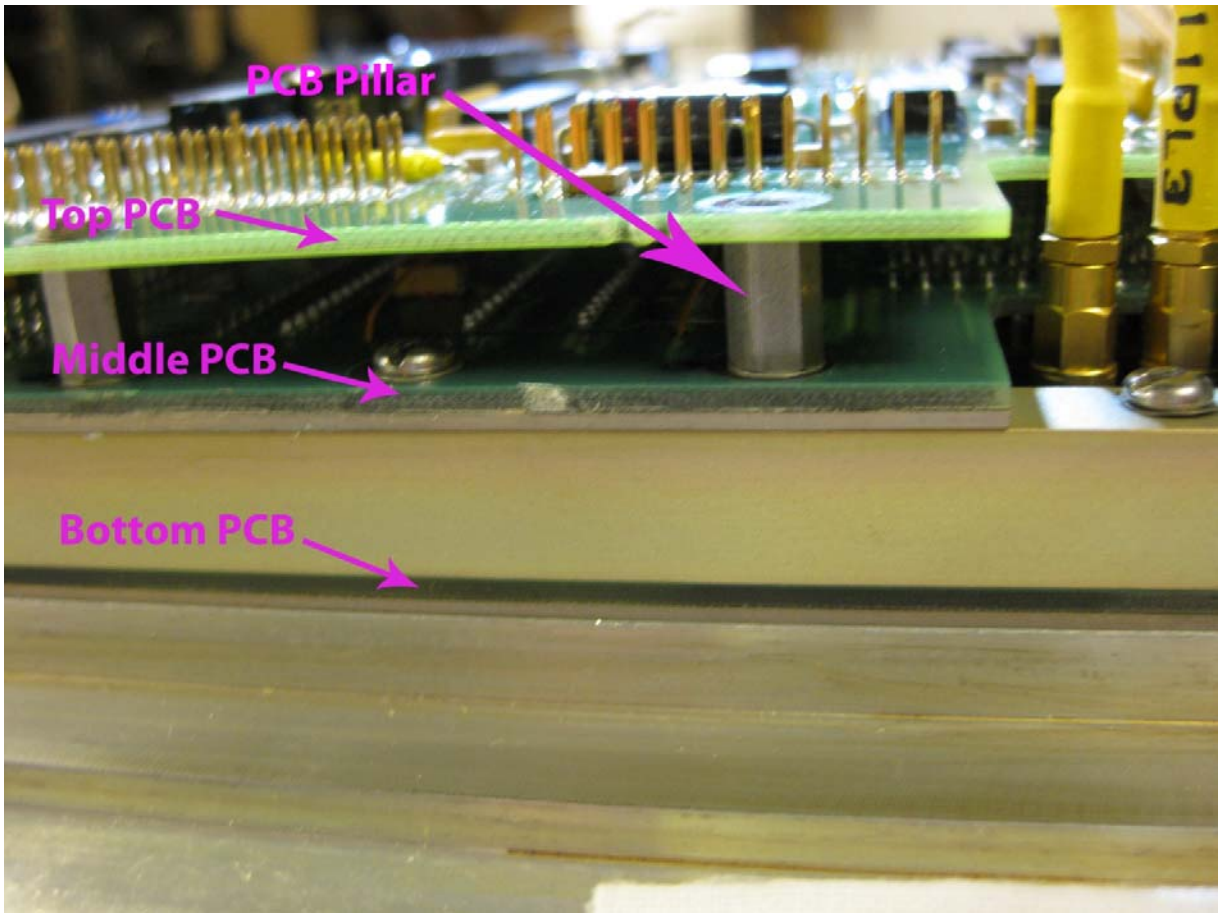


Fig1.

Fig2

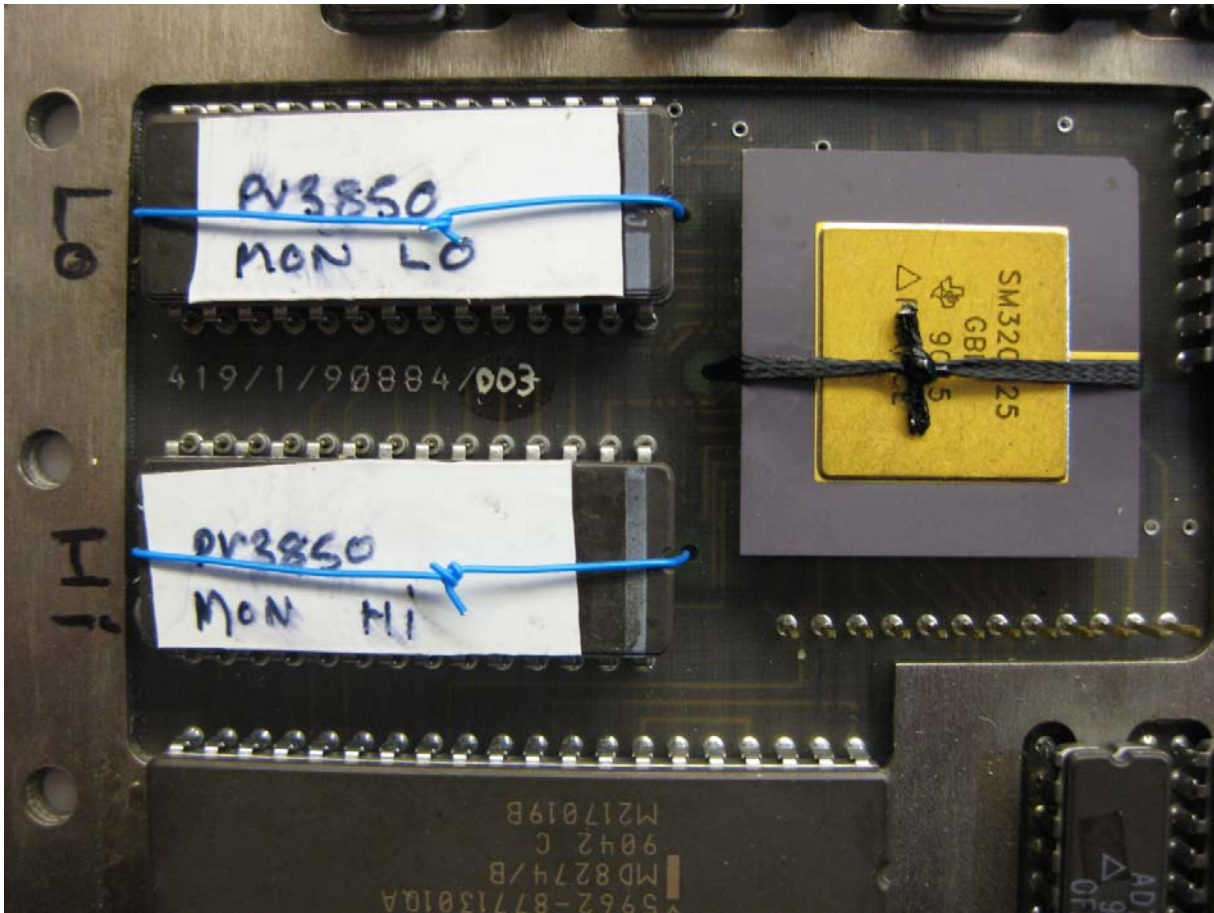


Fig3

If you have not already done so, It may be worth checking the receiver has not been modified at the factory to disallow reception >500MHz whilst you already have all the screws are out of the case. Symptoms of this are that the RX is extremely 'deaf' above 500MHz

Instructions for this can be found in a separate document available at [www.bellradio.co.uk/amateur.htm](http://www.bellradio.co.uk/amateur.htm) under the heading "Plessey Vixen Receivers modification"

73's Martin G7CKX