

Modification of a Sony ICF- SW1 for DRM



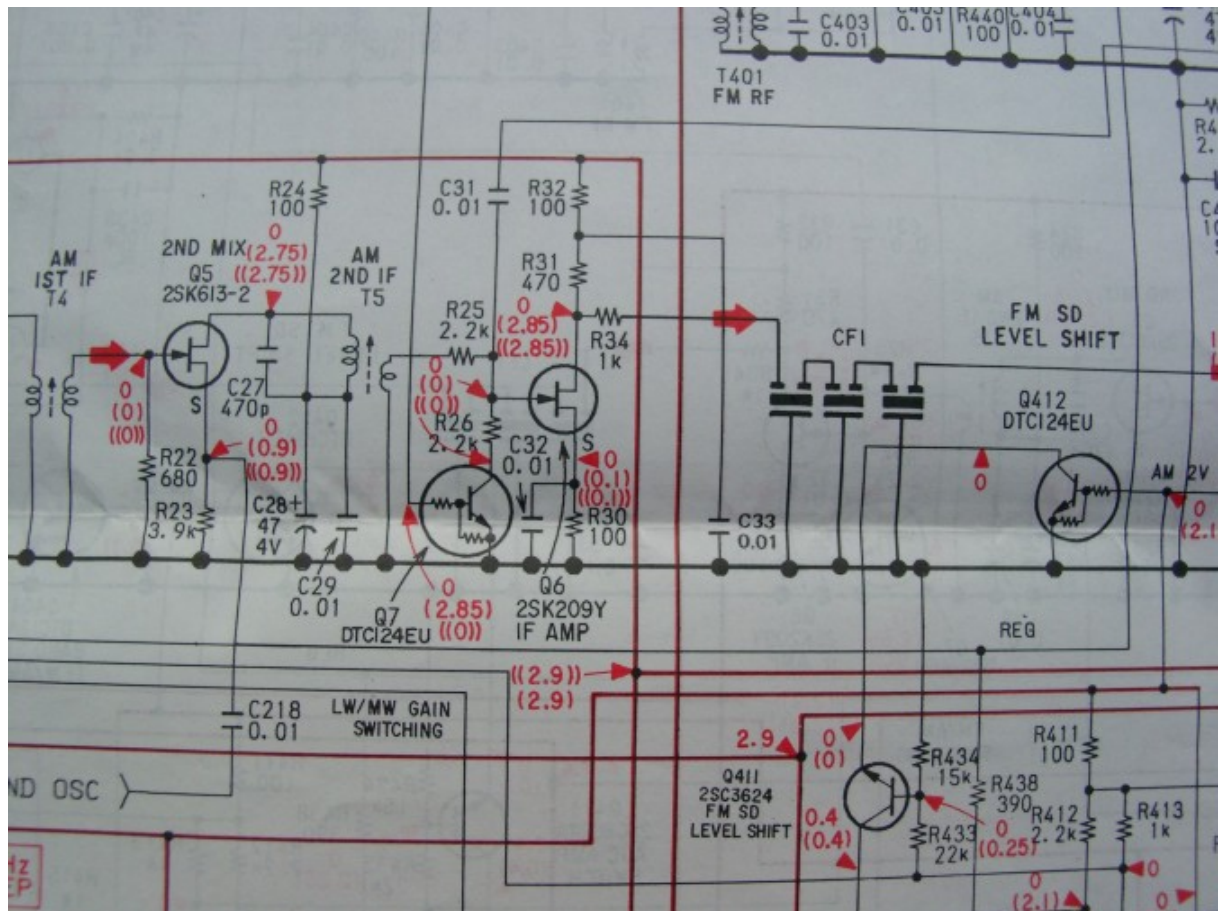
img1: Sony ICF- SW1 + drm converter box

As it is a quite compact radio the filter & downconverter (+ battery) have to be placed in an extra box. Apart from this complication, otherwise this makes a good receiver for DRM and as it is so small it is useful for receiving DRM when traveling. The receiver can still be used for reception of analogue transmissions after this modification, only the line out jack can not be used anymore. The modification is quite simple, just run a shielded cable for the IF signal to the line out jack, as in the picture below:



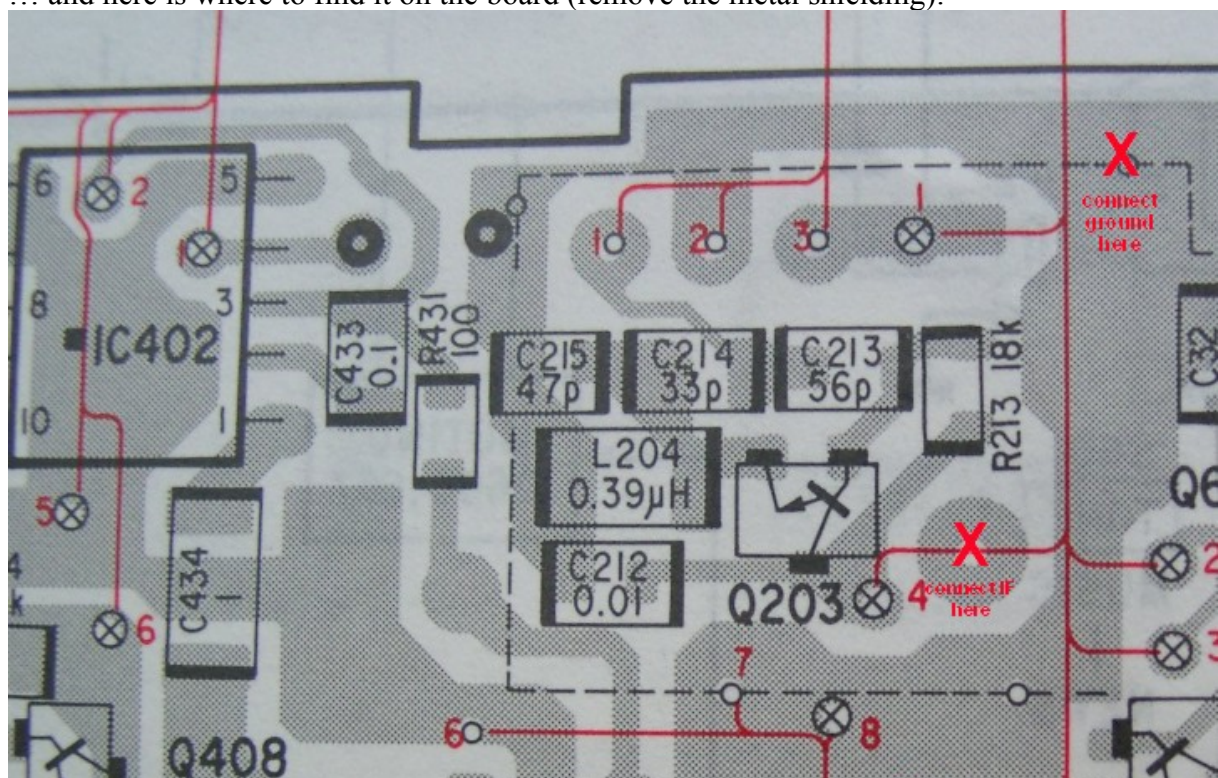
img2 : IF connection inside the ICF- SW1 (rear view, shielding removed))

The IF signal can be tapped at the input of CF1, see circuit diagram below:



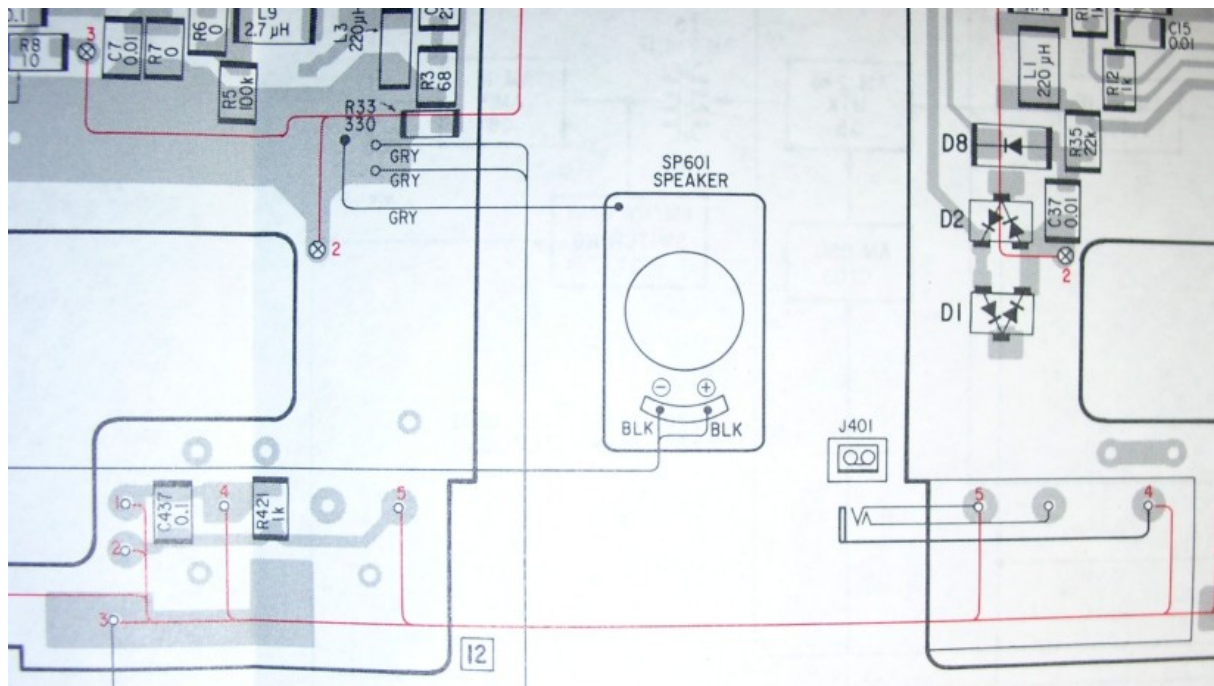
img3: circuit diagram ICF- SW1

... and here is where to find it on the board (remove the metal shielding):



img4: layout ICF- SW1

For using the line out jack (J401) for the IF output, remove C437 and R421 and connect the IF at pin 4 and ground at pin 5, details see diagram below:



img5: ICF- SW1 line out jack (J401)

With the Sony ICF- SW1 I can achieve up to about 25 dB SNR on strong signals using the built- in telescopic antenna, I also got very good results on MF using the built- in ferrite antenna.

For further questions send an e mail to: stoeppler@yahoo.com