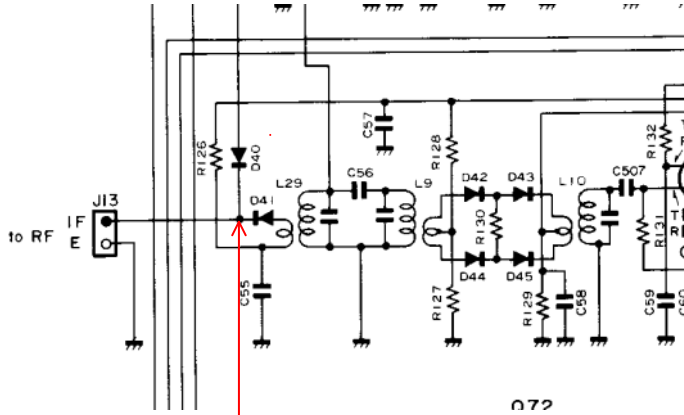# IC751 Softrock40 I/Q at 9.015MHz IF
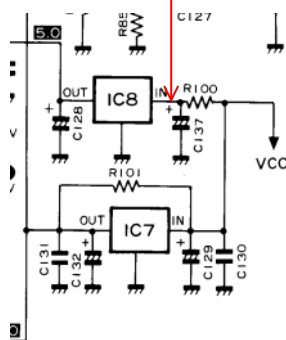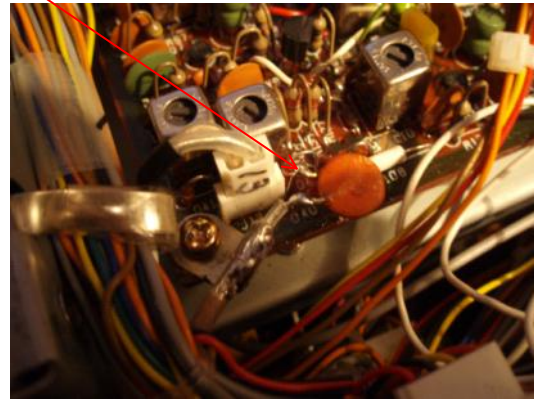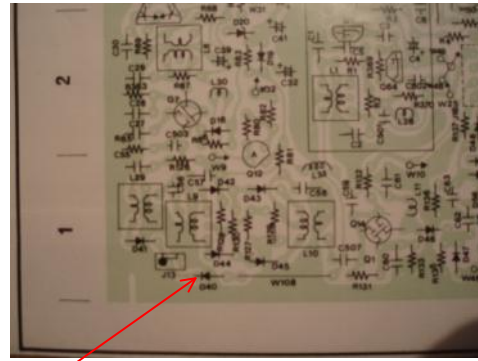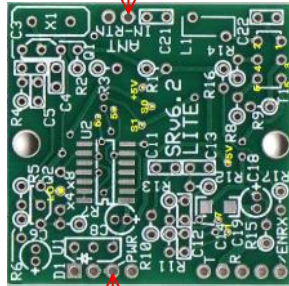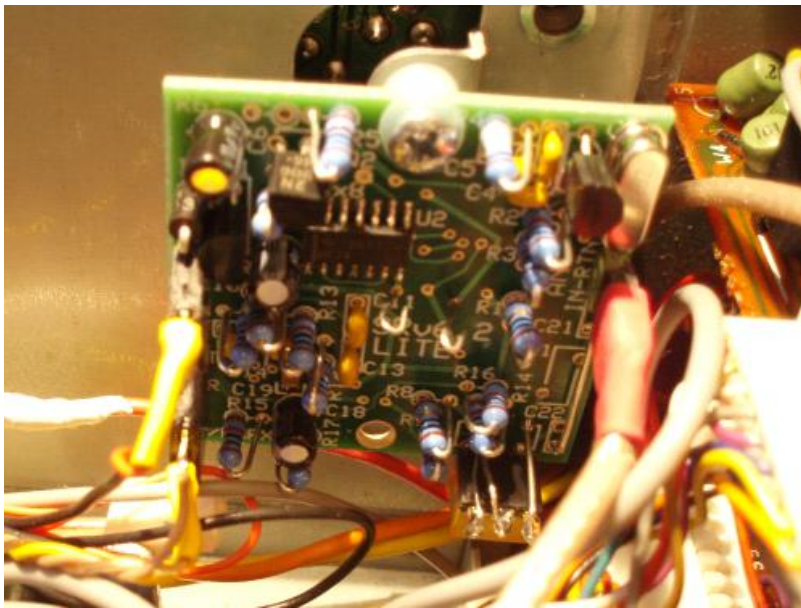
24. toukokuuta 2008
7:23

INTERFACING

47 pF

Softrock 40 6.2 Lite
- 12MHz Xtal
- 3 / 4 sampling.
  I.e. 12 *3 / 4 = 9 MHz

General Notes

- The input filter parts are not installed (C21, C22, L1)
- T1 is replaced with Mini Circuits factory made 2:1:1 broadband transformer
  (I have those in my junkbox, T1 can easily be wound manually on the kit toroids).
- My primary plan was to connect the hook in 1st IF but this 2nd IF seems to be quite satisfactory so I'll
  keep this until I get some motivation to getting it somehow better.
- Perhaps a buffer is needed for preventing the 12MHz signal injection directly to IF-circuit. There may be
  now place as the input filter is removed.

Hi Jarmo!

I have tested to tap IF-signal from my IC-751A now ,and I'le just give you a little update.
Started to modify my SRLite 40m version to 9mhz. Then I built the JFET buffer and conected it to the same point as You described to me.

1)With JFET buffert ,signal was a little weak in to the SRlite. S9 on the 751A was down S3-5 on Rocky S-meter,and hard to copy weak signals.

2)Tested without the JFET and using 22-47pf but signal was maybe even a little weaker now. No affect at the IC-751A RX noticed.

3)Moved the tap point to another spot ,between D77/D79 in 751A -after a tip from Barry ,GM3YEH-(should be D49/D51 in 751) and now things started to happening!
-Using 22pf the SRLite and 751A was quite equal in S-meter reading, but the 751A was down a little in signal now.You can easy hear the difference when IF-tap is IN or OUT.

4)Now I conected the simple JFET buffert at D77 and now it works 100% -no affect on the 751A and weak stations is no problem on the SRlite.
S readings on Rocky and 751A are almost the same.
(I will start upp my signal generator to do a better test ,comparing SRL and 751A when I'le get more time.. :)

Using Audigy2 soundcard ,my screen is free from spurs and just a wery thin line in the center of Rocky screen.
-I send You a picture from 751 Mainboard chema ,where to look for D49 ,and also how my JFET buffert looks like.

All for now!
73's

Icom IC-751 Mainboard

IF-Tap at D49

D49 is located with the radio front heading towards You,close left hand of upper 9.0106 filter (FL30).   73's
-Henrik -SM2YSW-

+13 V

J310

20pf

+13 V

20pf

J310

D77

G

D

S

SR
lite

1 M

350