ICOM IC-7000 AV IN MOD

Request: How to use LCD display in TV mode after end of analog broadcast.
Bad idea: Assembly AM modulator on ~220MHz and connect to the settopbox.
Why bad? Noise, low resolution, interferences, too time skill, tunning, etc.
Better idea? Connect video input direct to LCD driver and audio to LF stage.
Why better? Can be connected worldwide all PAL compatibile sources (stb, computer, game..)
How to: Disconnect demodulator, disconnect monitor output, interconnect, enable in SW.

Schematic first:
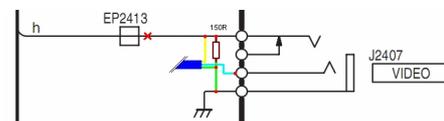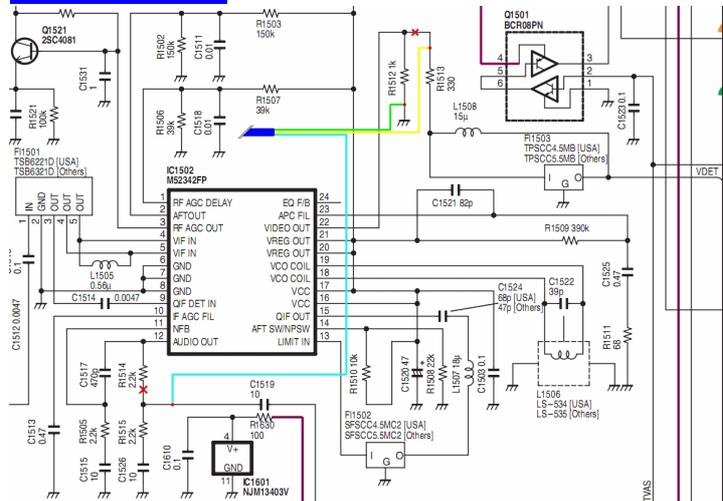
Yellow wire	- video signal
Cyan wire	- audio signal
Green wire	- ground
x	- disconnected wire
VDET	- demodulated video
h	- output videosignal
TVAS	- TV audio select
TVVS	- TV video select
150R	- video shunt

PCB Main unit - bottom side:
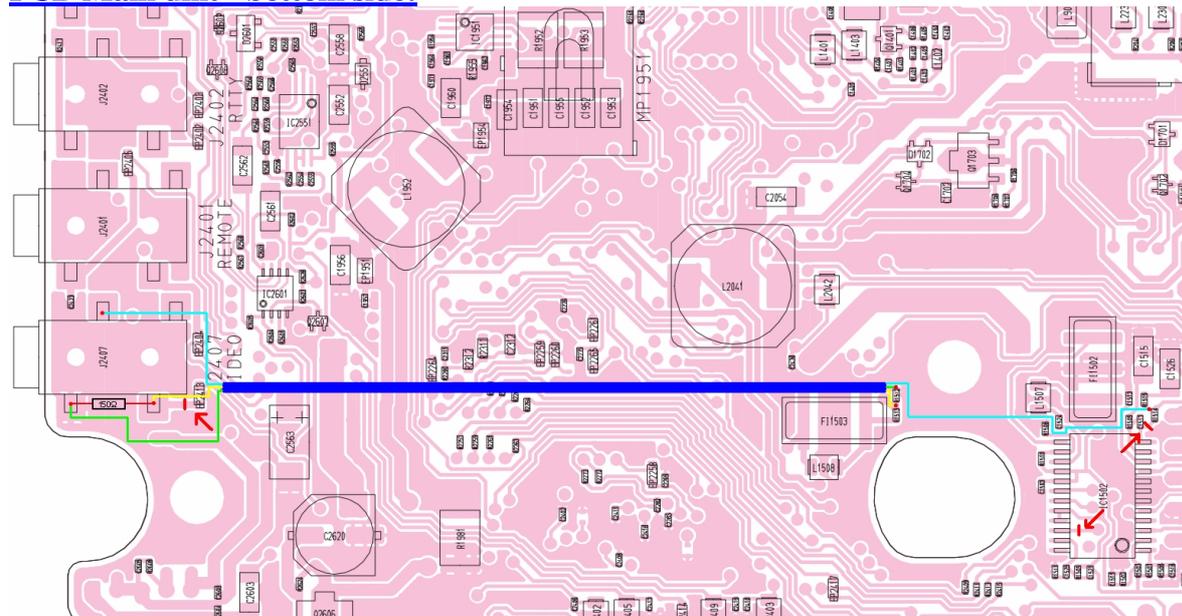
And now reality show:
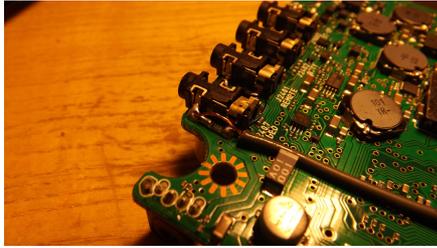
Device detection shunt
especialy added for correct recognition attached external monitor for some "yntelygent" video sources.
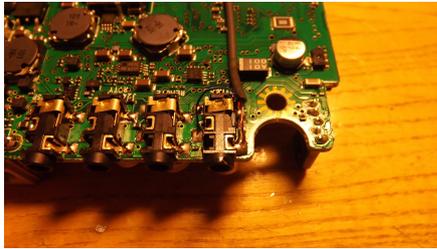
Video input connector
after modification this connector lose video output function but work as audio/video input (my version of TRX is compatible with PAL4.43 and NTSC4.43)
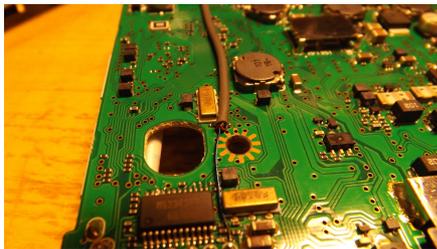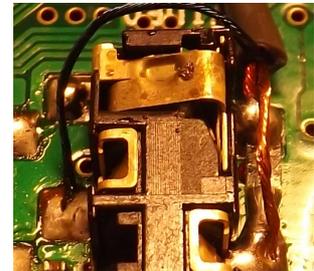
Video input connection
detail of soldering points video signal and cable grounding. Resistor stills on place, don't remove it! Attention for screw ring before assembling case!

Audio input connection
detail of audio signal connection. Remove shunt and connect wire. (put somewhere desoldered resistor for spare/backup use)

Old demodulator disconnect
You need disable internal video demodulator in TRX. Simply desolder pin 22 on IC1502

Appendix 1
for example, here is my version of band expansion.
RX 30kHz-199MHz and 400MHz-470MHz, TX 1600kHz-199MHz and 400-470MHz with gaps (untunned LC filters on PA unit).

Appendix 2
In future i want try change both 280kHz filters with sharpest. At this moment all WFM (bold and shit) stations destroy 500kHz bandwidth.
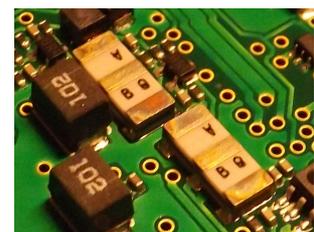
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