HAM-radio and receivers

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Online shop in Germany
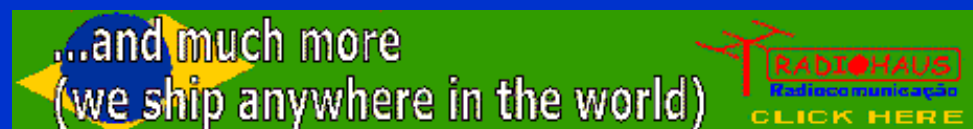
**Modifications for the Icom IC-910**

Picture(s) of Icom - IC-910

| 27-05-2001 | Expanded functions for the IC-910H (All versions) English language |
| 22-07-2001 | IC-910H mods English language |
| 12-10-2002 | IC-910 TX power protect software overide English language |
| 23-11-2003 | Improved SLOW/FAST AGC response selection for IC-910H English language |

**27-05-2001**                                                     add a comment
**Expanded functions for the IC-910H (All versions)**

*Author:* SM4RNA Anders Janis - *sm4rna@telia.com.MODIFICATION.NET*

Backside of the Displayborad looks something like below:

```
+----------------------------------------------------------------
-------------+
|    +----+
|
|    | r d |
|
|    | r d |
|
|    | r d |
|
|    | r d |
|
|    +----+
|
|                    +---------+
+--+
|                    | VFO     |
|
|                    | ENC-    |
+---+
|                    | ODER    |
|
|                    |         |
+---+
|                    +---------+
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```
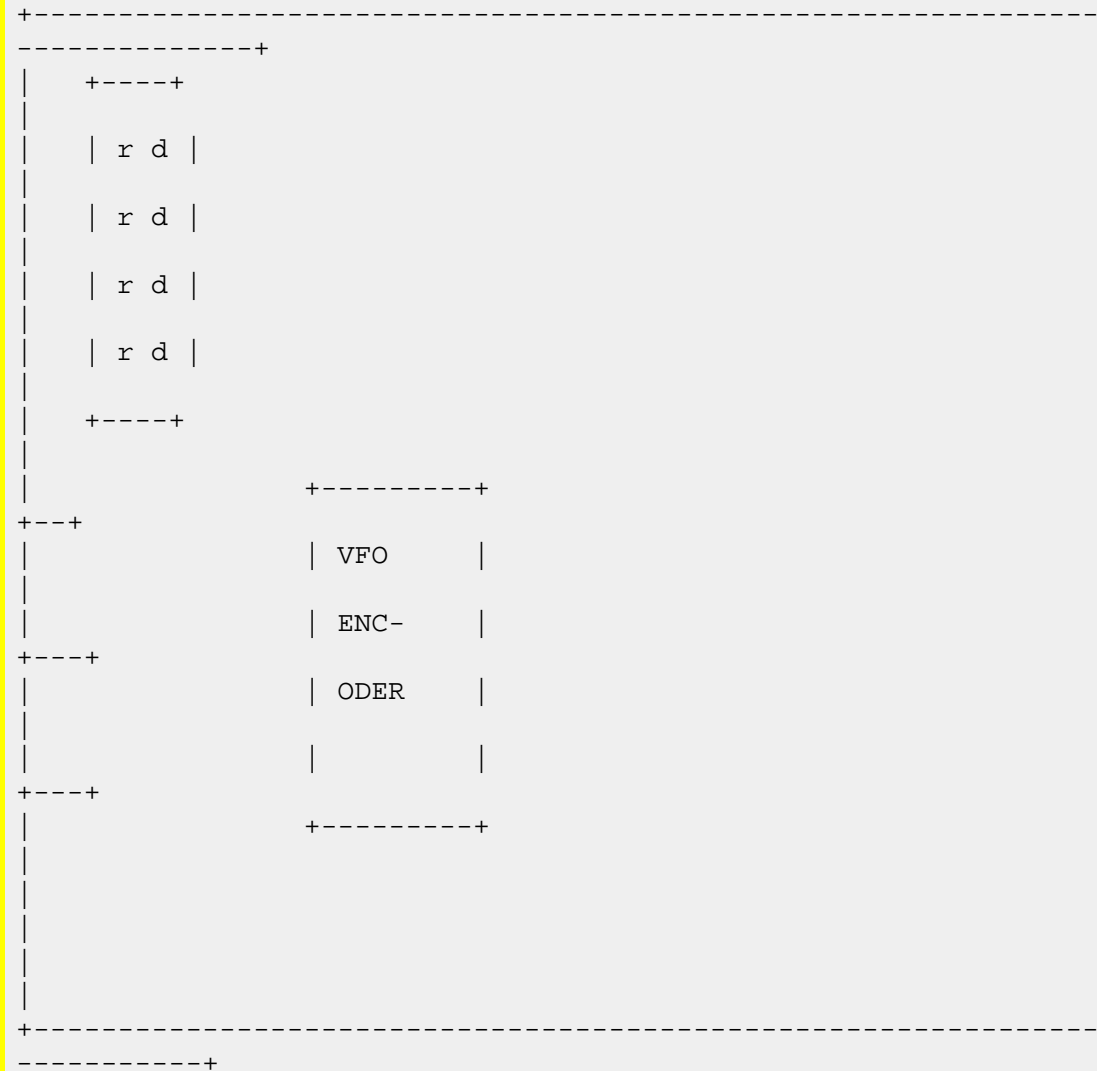
Top left is vertikal row with resistors be seen.

Beside the resistors to the right a vertical row with diodes is located.

From top is the diodes called D1, D2, D3, HD4, D5, D6, D7, HD8.

- To enable RX 136-174MHz Remove D5.

- To enable RX 420-480MHz Remove D6.

- To enable RX 1240-1320MHz Remove D7.

- To enable narrow FM on 1,2GHz band install a 1SS355 diode at HD8.

- TO enable crossbandrepeater install HD4

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To use crossbandrepeater:

1. Activate [LOCK]

2. Switch off the radio.

3. Puch and hold M/S while switch on the radio.

To exit push [LOCK]

(Crossbandrepeat will not be canceled if power is switched off.)

| Date: 13-11-2002 | User comment | From: Chris, DL4JCP |
|---|---|---|
| **Subject:** activate 1750Hz + RX 136-174 + 420-470??? | | |

…for DL-Repeater???

| Date: 11-10-2003 | User comment | From: NT9E |
|---|---|---|
| **Subject:** Crossband Repeat mod w/IC-910H | | |

Has anyone done this mod? Does it work well? What diode did you end up installing?

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**add a comment**

## 22-07-2001    **add a comment**
## IC-910H mods

*Author:* *Unknow*

To modify your rig for:

- TX-144 remove R188 (1k) on the display board. 136-174 MHz

- TX-430 remove R187 (1k) on the display board. 420-480 MHz

- TX-1200 remove R186 (1k) on the display board. 1240-1320 MHz

Narrow FM mode for 1200MHz install HD8 1SS355 on the display board.
You do not have to reset the CPU.

**Date:** 18-04-2002     **User comment**     **From:** anonymous

**Subject:** This mod does not work

This mod does not work on 910H.

**Date:** 18-07-2002     **User comment**     **From:** anonymous

**Subject:** ic 910h

mod not good for icom ic910h
power 5watt outsite the band

**Date:** 20-09-2002     **User comment**     **From:** Mike

**Subject:** Mod Works, but same as above.. clarification.

This mod -WORKS- but as someone else mentioned the power drops down to 7W max immediately outside of the band. I also tried removing resistors further down the "kt" line, only thing this does is make the rig go back to being totally locked again. This is definitely not some kind of bandpass issue, there is some sort of logic that is preventing the rig from going into high power while it is outside of the band. It's almost like the driver stages are functioning but the PA itself is shut off when it's outside of the band. If anyone has any further observations on this mod, or alternative modifications, please contact me directly or post information here.

**Date:** 10-10-2002     **User comment**     **From:** XE2VOO

**Subject:** funciona pero requiere ajuste de menu interno

ESTA MODIFICACION YO LA REALISE Y SI FUNCIONA,ES VERDAD QUE DA POCA POTENCIA PERO SE PUEDE AJUSTAR PARA QUE DE MAS POTENCIA EL TRASMISOR,YO EN LO PERSONAL ESTOY CONTENTO CON LOS RESULTADOS.


VHF 138-143 92W TX
VHF 144-148 105W TX
VHF 149-160 105W-70W TX DEPENDIENDO DEL SWR DE ANTENA EN CUALQUIERA DE ESTOS SEGMENTOS.

UHF 425-430 68W
UHF 431-450 80W
UHF 451.470 80W-65W TX DEPENDIENDO DEL SWR DE ANTENA EN CUALQUIERA DE ESTOS SEGMENTOS.
ESTOS SON LOS RESULTADOS DE ESTA MODIFICACION QUE YO OBTUVE.

**Date:** 12-10-2002     **User comment**     **From:** anon

**Subject:** not working for my 910h

i try this mod also de software mod menu 9
not good for normal power outsite the band

**Date:** 13-10-2002     **User comment**     **From:** anon

**Subject:** work now prefect

icom 910h works now 100% outside the band
thanks

**Date:** 15-02-2003 | **User comment** | **From:** Rich n2eo

**Subject:** IC-910H Extended Freqency

Dear Anon …. I have a fairly new IC-910H. I made the mods for the extended frequency… I removed the 3 resistors on the display board…. I was able to unlock the transmitter outside of the bands… After doing the power override update.. I.E. selecting option 9 on the key board, I am able to get close to 100 watts from 136 - 174 Mhz.

The problem is that what ever I do I can NOT get more than 7 watts on 70Cm….. As somebody else stated this is NOT a band pass issue as you can go right up to 450 MHz and get full 75 watts output… However soon as you go even 5 KHZ above 450 "bang" ! The power drops down to 7 or so watts…Do you know of a fix for this problem… 73 "Rich" n2eo

**Date:** 28-06-2003 | **User comment** | **From:** Uwe

**Subject:** TX for the Icom IC-910

2 Widerstände entfernen
für TX Erweiterung

add a comment

## 12-10-2002                                                  add a comment
## IC-910 TX power protect software overide

*Author:* Dave, ZS1SG - *j.perry@global.co.za.MODIFICATION.NET*

To allow "normal" transmitter power above and below 144-148 MHz.

1. Short the CI-V line of the CI-V jack on the back panel, to ground.

2. Push and hold the RIT and Sattelite keys whilst turning on power.

3. Push 9 key to enter the expanded frequency power set mode.

4. Enter the adjustment mode for 144Mhz out-of-band RF power. A wattmeter must be connected.

5. Push RIT key to transmit 145.01 automatically. Then rotate the tuning knob to adjust the desired RF power.

6. Push RIT key to memorise.

Similar for the 70 and 23 cm bands.

Note that the transmitter power does drop off below 140/425 MHz, and care must be taken not to keep the transmitter keyed in FM mode for long periods as the transistors get hot working into a out-of-resonance stripline.

If the band 136 - 140 is going to be used frequently, then a small adjustment of C659, and the fitting of an additional trimmer capacitor, 5 - 25pF at the antenna end of L657 to ground, and adjusting for max power at 138MHz, will reduce the strain on the PA transistors.

Dave ZS1SG

| **Date:** 25-01-2003 | **User comment** | **From:** kk2ed |
|---|---|---|
| **Subject:** does this work on 450-460 | | |

I recall trying the menu setting after shortingthe CI-V lineto ground and holding the RIT/SAT buttons.

I was able to get full power on VHF above 148MHz, but my power still drops to below 50% above 450MHz. I was able to get to the menu option for the 440 out of band setting, but it was though the CPU was overiding my adjustment.

Anyone successful with getting the power increased above 450MHZ?

Thanks

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add a comment

This modification has been read 6685 times.

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**23-11-2003**                                                    add a comment

## Improved SLOW/FAST AGC response selection for IC-910H

*Author:* *Jean-Jacques - ON7EQ - j.derey@village.uunet.be.MODIFICATION.NET*

The IC-910H offers a fast or slow AGC response selection from the front panel, this selection isn't very effective, and in fact AGC is always 'fast'…. In order to improve the selection of the slow response (eliminating the AGC 'pumping' under SSB operation), the R/C timing components of the AGC circuit must be adapted as follows:

a.  Remove power, open top and bottom covers of rig

b.  on the underside, locate the MAIN UNIT PCB (it is on your right side, with the front panel facing to you, and doesn't need to be dismantled)

c.  replace (or just solder as piggyback on) R312 and R914 (22k original value) by 2.2 k resistors, SMD or 1/16watt version.

d.  replace C910 and C306 (originally 22μF) by 47μF/16v electrolytic type

To locate these components, you will need the service manual which is downloadable from different internet sources as a pdf-document.

Best 73's

Jean-Jacques DE REY - ON7EQ
Web http://www.on7eq.com

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**add a comment**

This modification has been read 1181 times.

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www.hamantenna.com

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Can't you find a modification, then don't e-mail me please. All mododification that i have, is listed on this site.!
Have you problem with www.mods.dk then you can visit the **support** page.

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