



Radio Mods Database

Mods Manuals and Circuits

<http://www.kb2ljj.com>

IC-V82 Mods

www.r6-ru4montesecchieta.it

IZ5CCV

TX expansion for Icom IC-V82

I attempted the mod on a trial and error basis, with some previous icom mod experience.

The diode to remove is first diode to top left of lcd, when looking at main board upright with lcd display facing you, and case is opened.

Removal of castle nut on antenna connector,all case screws including two small screws above and below mic jacks is required to open case.



I have done this mod and have had good results.

I have tested all functions of the radio after the mod including upload and download from computer with excellent results.

Regards
Davo

[This has been added to the article 08-04-2006.](#)

The BNC Antenna ferrule is held on with some kind of super glue in the threads so you will need to work this nut loose ever so carefully. Just a piece of information that you may find useful, the antenna ferrule rotates clockwise to tighten, and counterclockwise to loosen.

Use a jewelers (or small type) screwdriver ,a small hammer ,and a pair of needle nose pliers.

Place the tip of the jewelers (or small type) screwdriver ,into one of the notches of the BNC ferrule and tap the handle end of the screwdriver with a small hammer ever so lightly until it begins to move.

Once it gets moving put the tips of your needle nose into the ferrule notches ,and rotate it off. This requires time ,so take as much of it as

you need.

Re-assembly is the reverse of above procedure.

The other possibility is to visit your local Icom radio shop or repair depot.

They may be able to remove the nut for you safely for a small or no charge?

I would do the latter ,if you feel this is too awkward.

Once both counterclockwise rotation notch edges of the ferrule get rounded, the procedure becomes much more difficult for removal (even with the correct tool) ,and a new nut, and or BNC connector ,and the possibility of repair exists.

Worst case scenario, a new plastic radio body/case may be required for ?\$?

They tell me the icom factory tool t

IC-V82 (IC V 82 ICV82) RX expansion to 136 - 174 MHz

- 1- Turn power off
- 2 - Press and Hold moni and func/a keys
- 3 - Turn power on, now the rx will receive from 136 - 176 MHz.

To undo this mod, simply make a full reset.

IC-V82 / IC-U82 Mars?cap Expanding TX and RX coverage

IC-V82: 136.000 - 174.000 M Γ μ

IC-U82: 400.000 - 479.000 M Γ μ

IC-V82/IC-U82

MARS/CAP Mod: Expanding TX and RX Coverage

Applies to these Models

IC-V82 and IC-U82

How to expand TX/RX frequency coverage for Modification

Frequency coverage: 136.000 - 174.000MHz *

Frequency coverage: 400.000 - 479.000MHz *

For IC-V/U82

Remove D48 from the Main board.

Note:

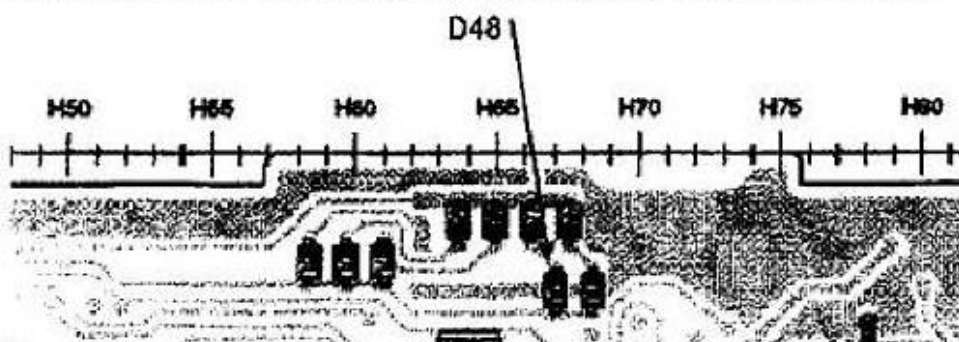
The IC-V/U82 already has expanded RX operating frequencies

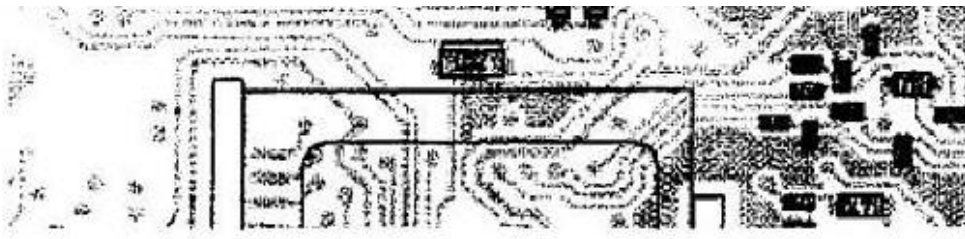
You do not need to reset the CPU (Radio) after the above diode is removed.

*The specification of reception performance outside of the amateur bands is not guaranteed.

Main PCB Layout (Top)

Note: not all of the diodes shown below may be installed on your PCB.





ATTENTION

The KB2LJJ takes no responsibility for any damage during the modification or for any wrong information made on this modification.