

## **BHI NEDSP1061-KBD installation to Icom IC-736/738**

This instructions will explain how install BHI NEDSP1061-KBD module to Icom IC-736 / 738 transceiver.

1. Remove both upside and bottom covers
2. Turn radio upside down so that bottom side is up and front panel is toward to you.
3. Detach four coaxial cable, two coming PLL unit and two is near backpanel.
4. Detach white ribbon cable coming from front panel.
5. Unscrew all main unit screws ( 8 pcs ) and one what hold regulator near front panel.
6. Locate C217 which is placed between notch board and larger metal shield.
7. Pull main unit from chassiss and turn solder side up so that you can remoce C217.
8. Find thin audio cable ie. PC CD ROM audio cable and solder it point wher C217 was. Round point on C217 marks audio from preamp ( audio to DSP module).
9. Reassembly main unit. Screws and cables.
10. Solder red wire to regulator (which is near front panel) right side leg. That is +8VDC to DSP module.
11. Now, turn radio "right" side.
12. Find appropriate place where install DSP main unit.
13. Because original cables is actually too short, you have to remove those audio and supply wires longer. Use desolder sucking wick or other and remove audio and supply wires from DSP module.
14. Check where you install DSP module and cut those wires proper lenght.
15. Solder wires to DSP module and check that audio wires is correct way.
16. Original supply wire has protect diode but if you are sure that you connect plus wire right it can be removed.
17. Install ground connections where is best place.
18. Check that all is ok and connect power supply and antenna to the radio.
19. Now you can refer BHI NEDSP1061 manual to set proper audio levels.
20. When all set you can now test how it works and if it works thats fine.

21. Remove radio connections and find place where install DSP unit and check if you have to put longer wires to the keyboard/LED board. (I have to make so).
22. Measure upper cover where you can install keyboard/LED unit. Dont forget radio signal meter place on inside. Few mm. From s-meter is plenty place to attach this unit.
23. Next, measure from front panel how far it keyboard unit can placed. It might be 14-15mm on upper cover front side. Then measure keyboard and LED hole and drill appropriate holes.
24. I glue keyboard/LED unit to upper cover a hot glue.

This DSP module can install any radio if you have schematic diagram and can find right place in radio.

I no take any liability for this modification. You take you own risk. And if your radio have guarantee, any modification or so. Cancel guarantees.

If you dont know what you are doing, dont do any.

If any questions about installation, i will answer for that via email.

[oh3fp@sral.fi](mailto:oh3fp@sral.fi)

Markku tanninen OH3FP  
Lehtolantie 12  
FI-11100  
Riihimaki  
FINLAND



