

Install a modern DSP Noise Blanker on your Collins KWM-2

From F6EXG



The original KWM-2 Noise Blanker option is hard to find, costly, needs a separate antenna and the results are modest...

Having experienced the DSP noise blanker from B.H.I. on my tiny FT817, I decided to find a simple solution for my Collins rig.

The good thing is that there is a NB control on the transceiver. We find the NB power and control signals on J24- 9 pin socket.

The principle is to "insert" the DSP in the audio path, and the simplest way is taking the audio signal coming to the AF potentiometer, send it to the DSP input, take the DSP output and bring it back to the AF potentiometer instead.

Please read the DSP brochure on the manufacturer website:

<https://www.bhi-ltd.com/>

The DSP needs some interfaces that can be constructed on a piece of "prototype board" as shown on the photos.

Once the installation is completed, there are few adjustments:

- Input level (to avoid saturation of the DSP),
- Output level (to recover a similar audio level with or without N.B.),
- Jumpers to select the amount of noise cancellation.

This is a "week-end project" that will not alter the value of your Collins equipment: No drilling, only a shielded wire to unsolder from the AF level potentiometer.

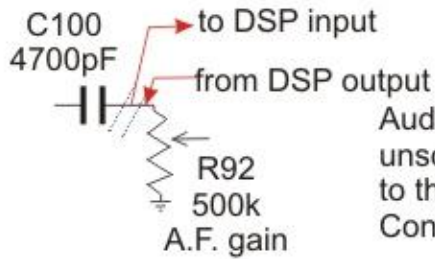
Enjoy this new feature, it is amazing.

73, Roland

C.C.A.E. # 0246



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Audio Volume control potentiometer
unsolder the wire coming to the pot. and connect it
to the DSP input
Connect the DSP output to the A.F. pot?

