

So recently, after playing with some passive (and very simple) nullers, which seemed to have some effect either, I decided to re-visit the ones made by Brian ZL2AJA. I did find that Brian had added a toroid core to one of them - subsequently I removed it and that got it working along with the other.

But the main issue was getting enough signal on the noise aerial to get a null - the circuit has only a single transistor for the noise amplification.

Rather than try to re-design the circuit I did something simpler - I put a pot in the main aerial lead to reduce the signal - of course along with the noise. This had an amazing effect - and I then proceeded to add a relay which when switched off (with the power to the nuller) simply connects the aerial and radio directly.

Listening tonight to the Branch 22 net on 3876 was mindblowing. Signals about S9+10dB, which were difficult to copy without the nuller were completely noise free with the nuller. S8 to 9 signals which were discernible as present (but not copiable) were also almost noise free. Signals probably about S6 - 7, not discernible at all without the nuller, were slightly noisy, but R5 with the nuller. The tuning is extremely sharp and I am grateful that Brian used reduction drives on the tuning capacitors.

The added pot. does affect the S-meter readings so comparative readings are hard to make, but the effect has to be heard to be believed.

So what? Well I guess you don't really know what sort of noise you have until you try a nuller. Basically for background "white" noise it won't do anything. And of course you can only null one noise at a time. But even a reduction of two S-points of noise would make a difference in some situations. I think I am getting a null of 4-5S points in the noise compared with the signal.

G3RJV Memorial Trophy

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Plans to host the first construction competition for the **G3RJV Memorial Trophy** had to be put on the back burner as a result of the Convention becoming a virtual event.

However, I am pleased to announce that there will still be an award this year. Any member wishing to enter must e-mail details of their project to Dick our Secretary at: g0bps@gqrp.co.uk by the end of October. If you're short-listed you need to be available to demonstrate your work via video conferencing during the first two weeks of November.

The winner will be announced in the Winter SPRAT.

Members who are unable to communicate via e-mail can send project details by post and, if short listed, will then need to post their project to one of the judges who will carry out the demonstration.

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