

# Silencing the Toyota 100 series diesel RFI

Bob Tait VK3XP and Phil Wait VK2DKN.

I have been aware that the late model Toyota diesels were particularly noisy electrically, with much of the interference coming from the injector drivers housed in a box on the passenger side of the engine. Some of the radio installers of the popular Codan and Barrett radios usually running on the RFDS, or favourite 4WD club frequency, have stated openly that if you want to use the radio turn off the engine.

Well after a visit to the Parkes Radio Telescope and a meeting with Phil Wait VK2DKN and a bit of idle chatter, I asked Phil if he had experienced the noise problem with his Toyota 100 series diesel. He said he had but after a bit of mucking around trying to locate the noise source he found most of the noise was coming from the injector driver box. Well off he trotted to his local Jaycar store and purchased some ferrite to see if putting some of these around the cable coming out of the box to the injectors would fix the problem.

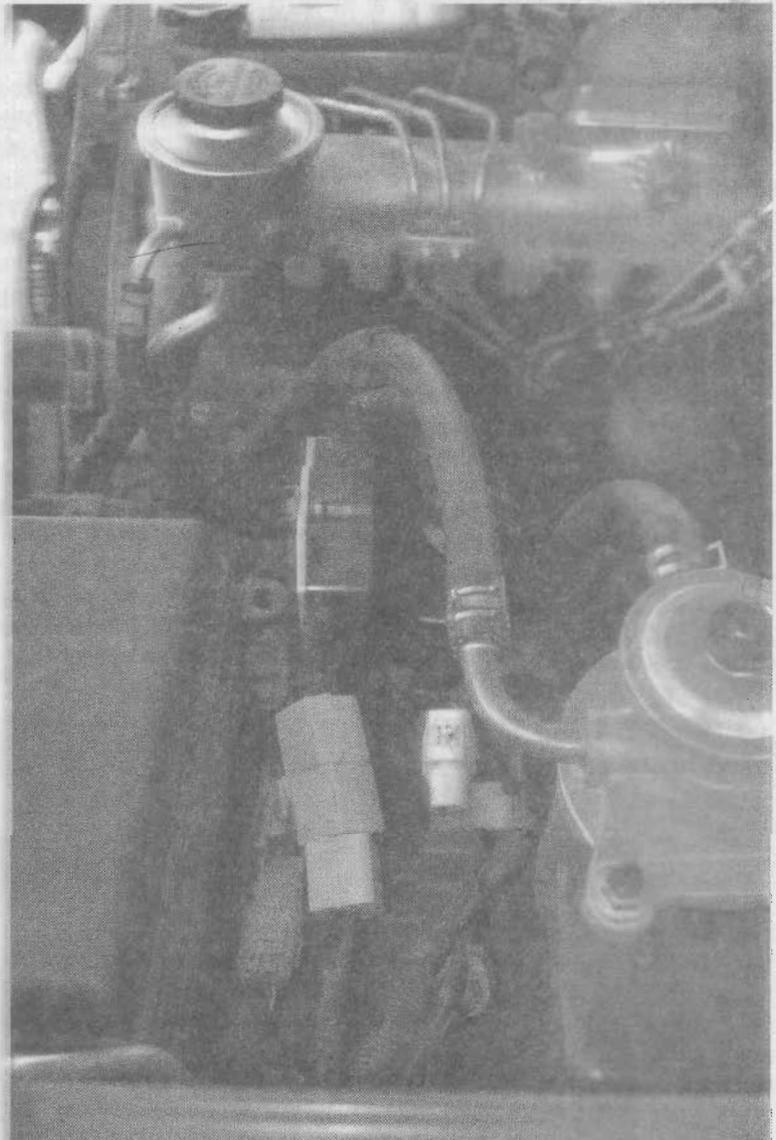
Well it did the trick, with the noise level dropping from an unbearable 10 over the 9 on 40 metres to about ½ an 'S' point.

We went for a quick burn around the streets of Parkes with the audio at full bore, the noise was just audible, but you had to listen hard... Well done Phil.

Up with the bonnet and a picture for the article to go in AR!

A nice easy fix to a difficult problem.

Be aware that this will not necessarily fix other diesels, as some vehicles use FET drivers and the introduction of some 'L' into the circuit changes the slew rate of some circuits resulting in changed vehicle performance. If you have a similar problem and have a fix let us know through the pages of AR.



You can see the white beads placed on the cable coming from the injectors.

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## WIA Comment *continued from page 3*

### TAC to FTAC to NTAC

overtake the time they can give to amateur radio. Sometimes things just go to the wrong place and no one knows about it.

We ran into this sort of problem with the qualifying of Assessors, and now with the Learning Facilitators. We have found it very much better to process the applications through the office, tracking

where they are at, making copies as required for the different people involved and being able to answer questions as to where things are.

So, as well as clearly defining a procedure, we have hopefully put together a procedure that will, in the long run, ensure a better result.

So, please look at the WIA website

and find out more about NTAC. And, if you want to license or change the licence of a repeater or beacon, also look at the website, understand the procedure and use the template provided.

Yes, the people who give their time to NTAC are skilled and experienced. They add value to amateur radio and the WIA.

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