**KWM-2/2A - - Audio feedback in speaker during transmit**

One of our members experienced audio feedback in the speaker *during transmit* which produced – not only his MIC Audio voice reproduced in the speaker – but also the stereo typical feedback squeal. He went on to say that the problem only occurred on LSB mode SSB transmissions and that SSB transmissions in USB mode were normal.

This problem is seldom seen, but also pretty hard to diagnose – but Ernst Schroeder, DJ7HS, hit the nail on the head. Below is copied his post back to the list and to Joe. This is worth posting to the *RX for Your Collins* page because, when it happens, it can be a real puzzler to diagnose.

Nice job Ernst. de N7OTQ/K0CXX

Ernst’s email copied here below.

*“Hi Joe,*

*This really sounds like a strange problem, but there is help ...*

*My memory (and a look at the M-2 diagram) tells me that there \*is\* a connection between the anode of V11B (output 2nd mic amp) and the anode of V15B (output of product detector, input to AF amp). This connection via resistors R155 and R156 (1.5M Ω each).*

*This path is (provided) for the side tone signal in CW mode. While in USB/LSB mode this path is eliminated by contacts on the mode switch wafer S9G.*

*If the junction between R155 and R156 is not properly grounded in LSB (or USB) mode, you will have a perfect feedback path.*

*Give it a try: find the junction of R155 and R156, or the LSB contact on S9G, and connect it to ground. Your feedback problem in LSB should then be gone.*

*Best 73 to Tucson*

*Ernst DJ7HS*

*CCA AC09-12284”*