Decibel Products DB4062 Loop Assembly Repair and Conversion from -004 to -005

December 5, 2018

Three -004 DB Products loop enclosures and assemblies sent in for repair and conversion to -005 for duplexer to operate in 2M Amateur Radio band. Owner had set with six -004 loop enclosures, which would not tune properly for 2M use.

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Factory -004 Loop (x3)

Replacement -005 Loops

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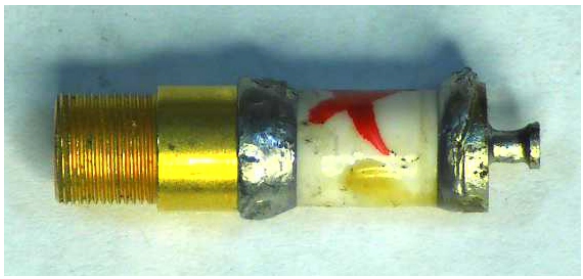
Failed Trimmer Capacitor



Testing of trimmer capacitor with Sencore analyzer showed range of 6.6 to 22.8 pF, but it should be 1-30 pF. Capacitor replaced with new Johanson capacitor, per DB Products factory specifications

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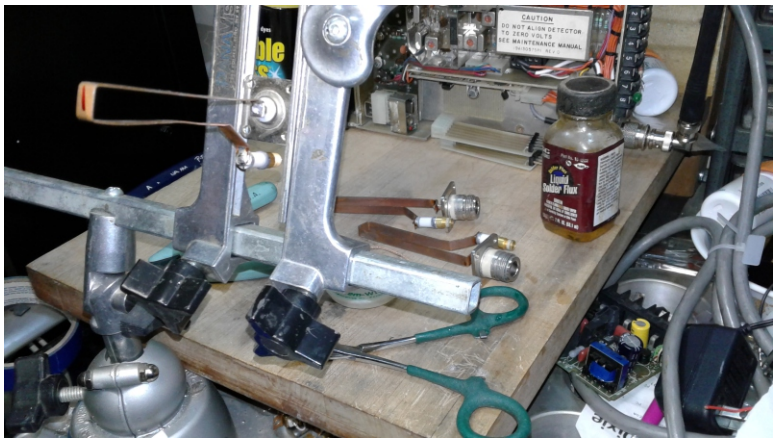
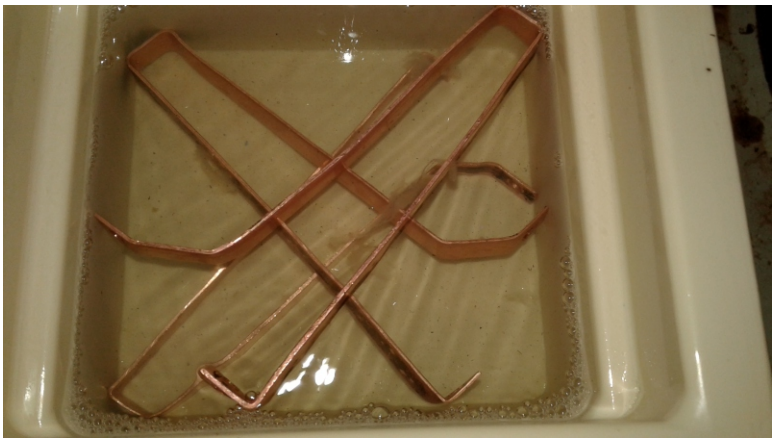


Loop assemblies during disassembly, repair, and reassembly on lab bench.



Custom made -005 copper loops being ultrasonically cleaned after cutting, drilling, shaping, and deburring.

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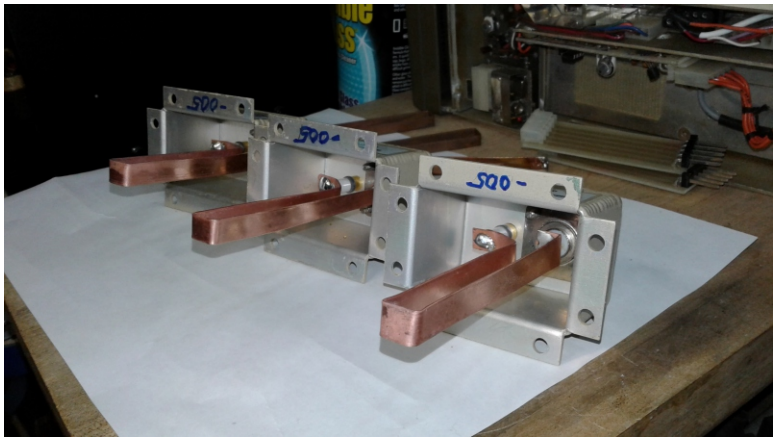
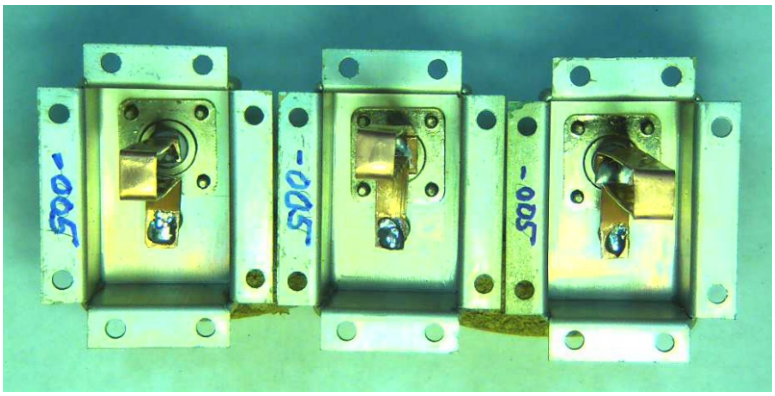
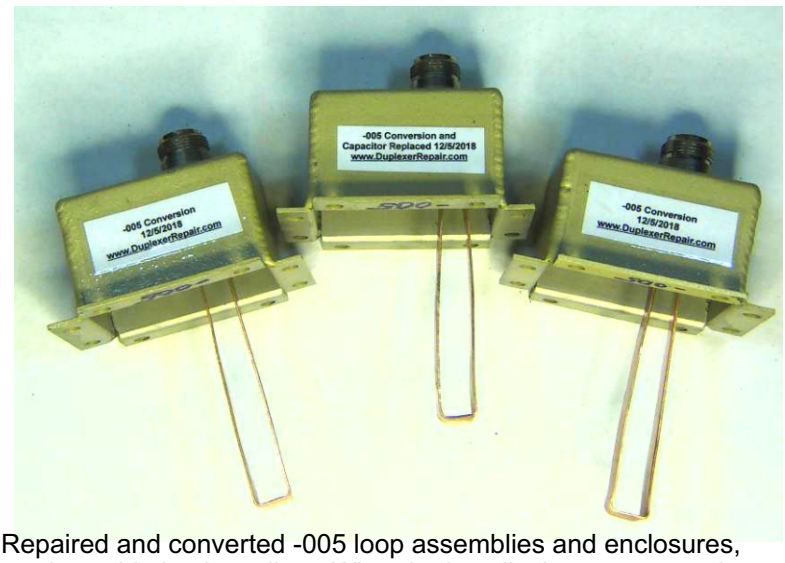


After the replacement loops were cleaned and polished, the loop assemblies were reassembled.





Repaired and converted -005 loop assemblies and enclosures, ready to ship back to client. When he installs these converted assemblies in the branch opposite the -004 branch, the duplexer will effectively be converted to a DB4062-WOC-B (143-156) MHz model duplexer.

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