

Simple Tube DC SSB Receiver

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<http://www.cqham.ru/forum/showthread.php?15497- - /page4>

It is simple experimental receiver that was made on two tubes- twin triodes. The receiver was tuned to 80- meter amateur band. Schematic of the receiver is shown on **Figure 1**.

Video of the receiver is:
<https://yadi.sk/i/BRXlyqr8evRf8>
 Audio of the receiver is:
<https://www.evernote.com/shard/s556/...0%BE%D1%81.amr>

It is usual DC Receiver with phase suppression of the second side band. Book “Direct Conversation Technique for Radio Amateurs” (Antentop 01- 2015, p. 88) gives information how to tune and adjust such receiver. **Figure 2** shows design of the receiver. Receiver consumes current 4.3-mA. VFO consumes current 2 mA. **Figure 3** shows the current. **Figure 4** shows shape of the RF signal of the VFO. Receiver could work fine with antenna in several meter length. It is possible use players low – ohmic headphones turned on through transformer or high-ohmic (2x 2000-Ohm) phones turned on to tube plate through capacitor 47.0-microF/16-V.



Figure 2 Design of the SSB Receiver

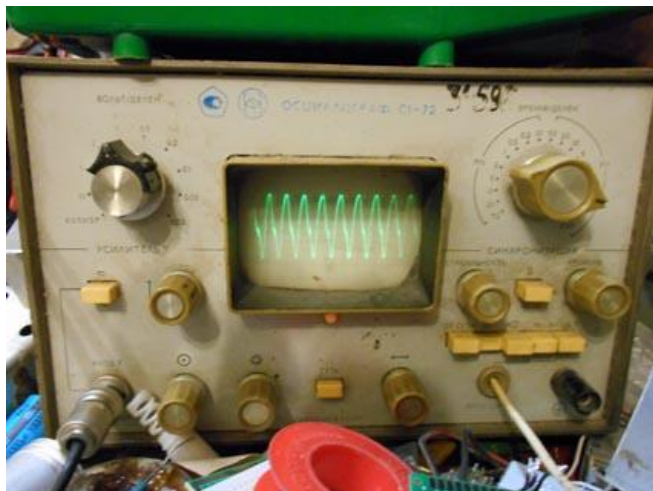


Figure 4 Shape of the RF Signal of the VFO



Figure 3 VFO Current

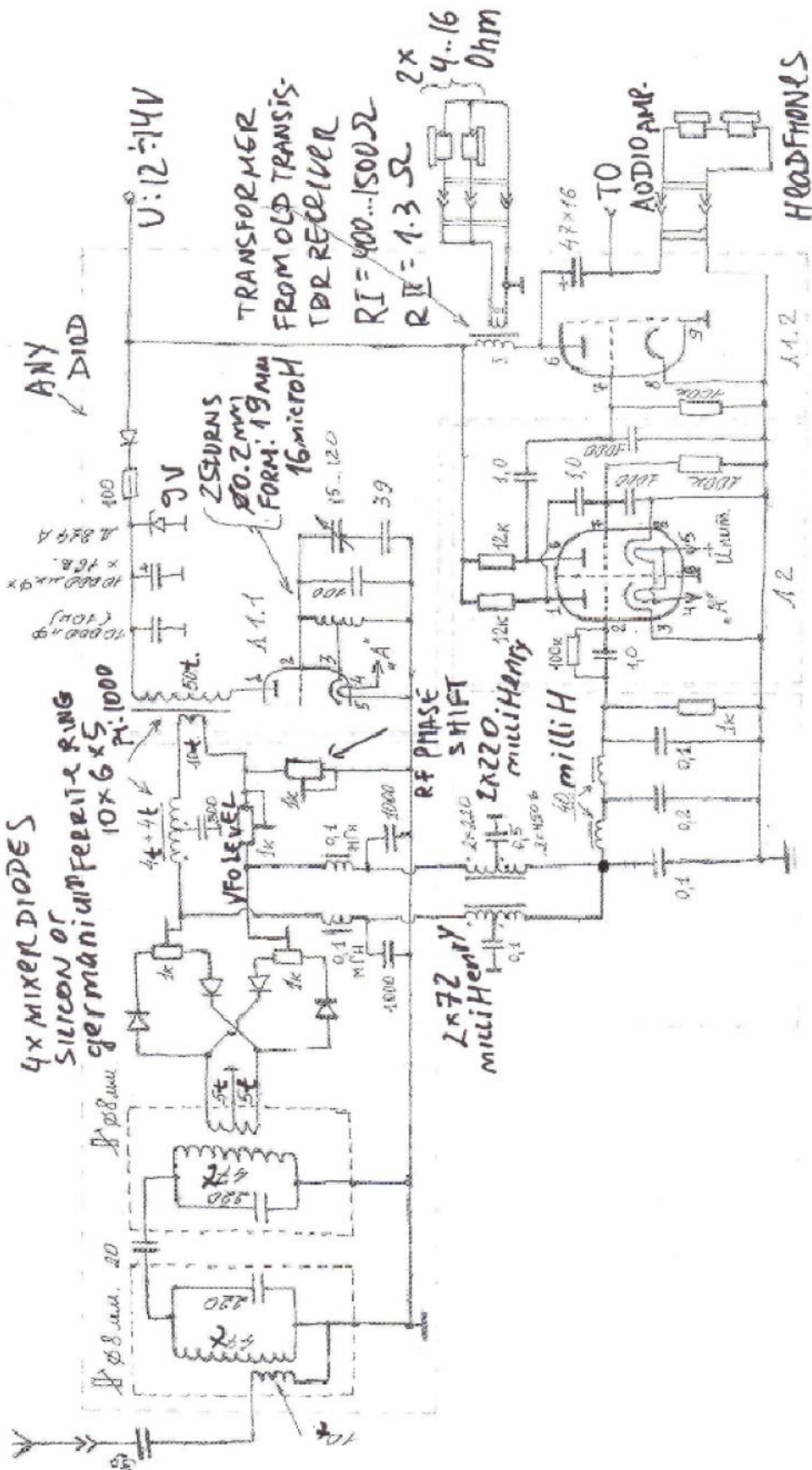


Figure 1. Schematic of Tube DC SSB Receiver