

# Simple Three Bands Regenerative Receiver

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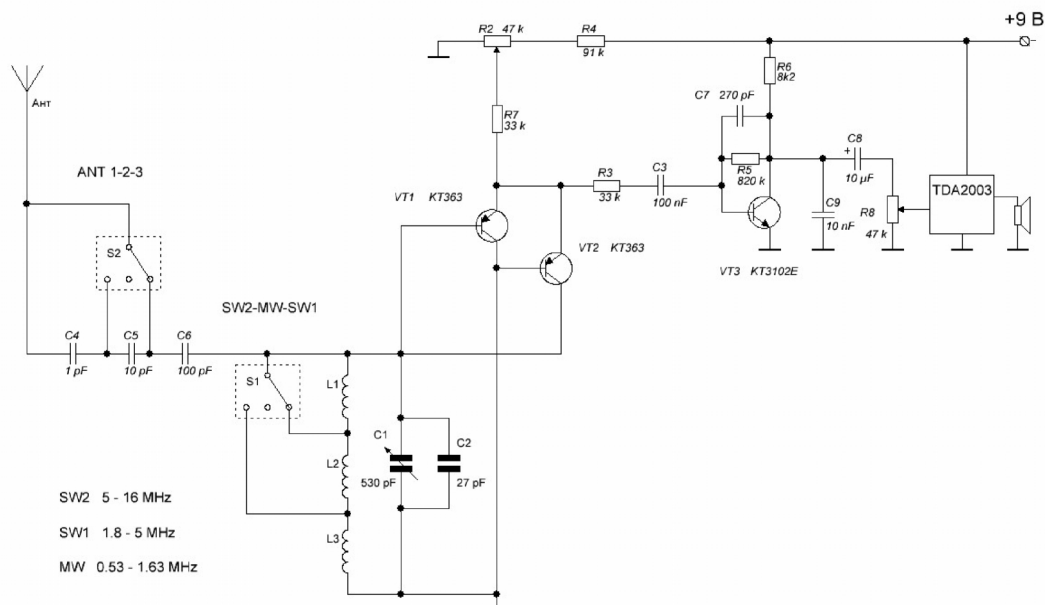
Credit Line: Forum at <http://www.cqham.ru/>

Some days I find at my convenient store an aluminum form for baking bread. I have bought it. But I never bake bread with it I make a simple Three Bands Regenerative Receiver inside of the form. Nothing new it is in the schematic. It is widely known in Russia so called multivibrator regenerative receiver. **Figure 1** shows schematic of the receiver.

Receiver works at the MW (0.63- 1.53- MHz), HF- I (1.8- 5.0- MHz), HF- II (5.0- 16.0- MHz). Inductors were made separately for each of the band. The inductors are sitting rather close to each other. For inductors L2 and L3 there are used form in 10- mm OD. The form has a trimming ferrite rod in 8- mm OD and 10- mm length. Inductor L1 is an inductor from my junk- box. **Figure 2** shows i view of the receiver.



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**Figure 1** Schematic of the multivibrator regenerative receiver

L3 should have 15- micro Henry. This one contains 14- turns of the enamel wire in diameter 0.8- mm (20- AWG). Winding is turn to turn. L2 should have 15- micro Henry. The inductor contains 40- turns of the enamel wire in diameter 0.3- mm (29- AWG). Winding spread in 1-1/2 layer. L1 has 160- micro Henry of inductance. It was used ready- made surplus inductor. As I have noticed the schematic works with practically any inductors. At first I would like to make the inductors on one form but later I gave up the idea because I cannot trim the inductance.

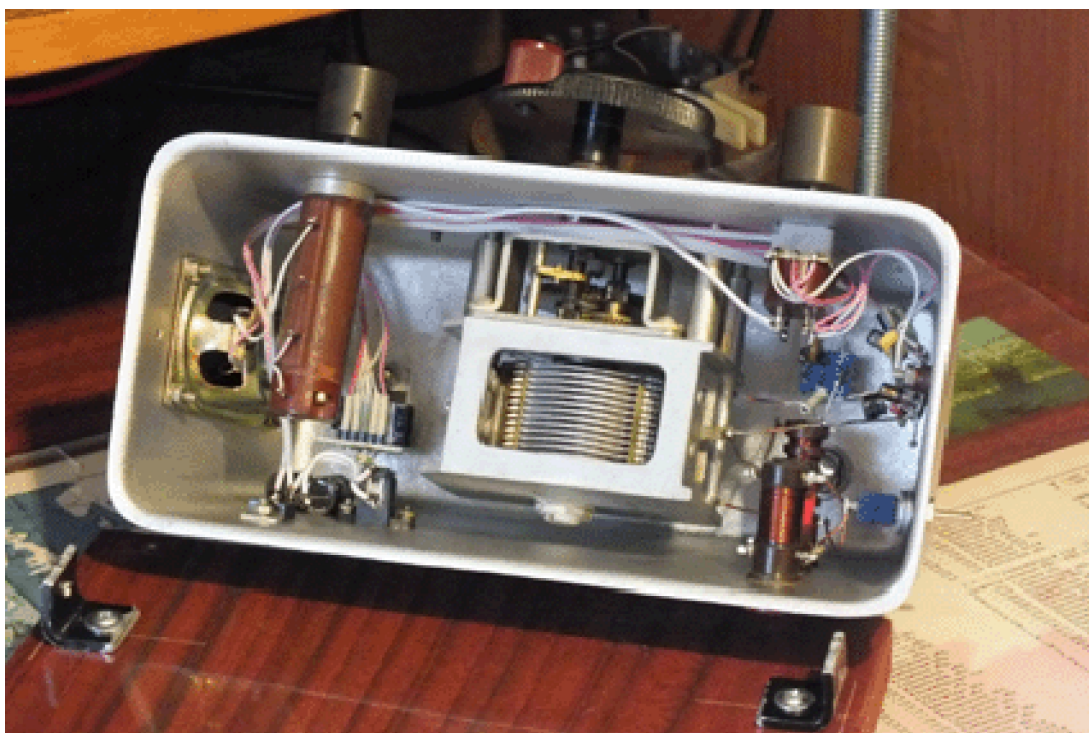
It is used a variable capacitor (unknown made) with build- in vernier. Loudspeaker is used from an old phone base SENA0. Switches S1 and S2 is a three- positions toggle switch. VT1, VT2, VT3 are small power transistors. Gain is not less the 100. F is not less the 100- MHz.

You may hear the Three Bands Regenerative Receiver at YOUTUBE.



File name: ua6aak regen 3 band

<http://www.youtube.com/watch?v=6wpXTluKPpo>



**Figure 2** View of the Three Bands Regenerative Receiver



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