



RTP8-SSB Country of origin: Yugoslavia

DATA SUMMARY

Organisation: Yugoslav State Security Administration. (UDBA)
Year of Introduction: Probably mid 1970s.
Purpose: Agents, internal security, military info gathering.
Receiver:
Circuit features: Single conversion superhet with RF stage, crystal oscillator, mixer, crystal filter, detector, BFO, AF output. CW and SSB only.
Frequency coverage: 3-7MHz.
Intermediate Frequency: 9MHz.
 Receiver frequency = crystal frequency - 9MHz.
Transmitter:
Circuit Features: Crystal oscillator, driver, RF PA. CW only. Transmit frequency = crystal frequency.
Frequency Coverage: 3-7MHz.
RF output: 6-8W.
Power Supply: AC mains 110/220V or 12V DC.
Consumption: 40mA receive and 1.6A transmit. (12V DC)
Size (cm): Height 5.5, Length 24, Width 20.
Weight: 2.4 kg.
Accessories: Wire for aerial and earth, optional external Morse key, earphone, crystals, AC mains and DC cables.

Remarks

RTP8-SSB was developed for internal security, agents and secret operations in other countries, including the neighbouring countries. The set was small, fully transistorised and operated on a single fixed frequency determined by a pair of crystals fitted in sockets on the front panel. It was powered by an internal AC mains power unit or a 12V external source. A miniature Morse key was mounted in the front panel; this could be substituted by an external key, connected to a jack socket. Operation was CW only, though reception of SSB was provided for. A three-unit version of this set, RTP8-SSB/3, was almost identical but split up in three easy to conceal units. (See Chapter 64)



General view of the RTP8-SSB with associated accessories. Note 9MHz shift in the frequencies of the 6 sets of crystals on top of the set.

References:

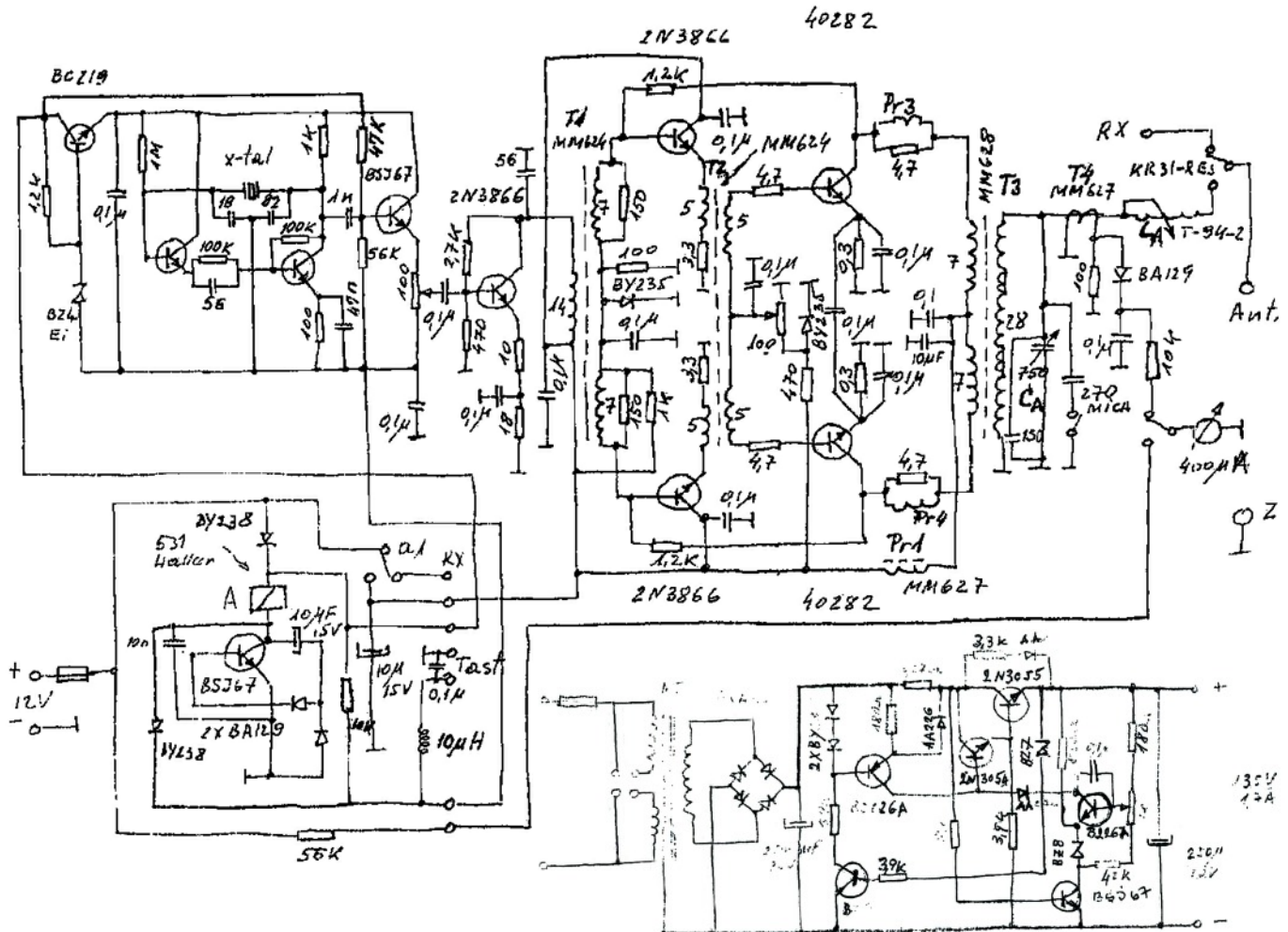
- Photographs and technical information was kindly provided by Mirko, S52PC, Slovenia.
- See also Mirko's website: <http://lea.hamradio.si/~s52pc/>
- Additional information courtesy CryptoMuseum, Holland.



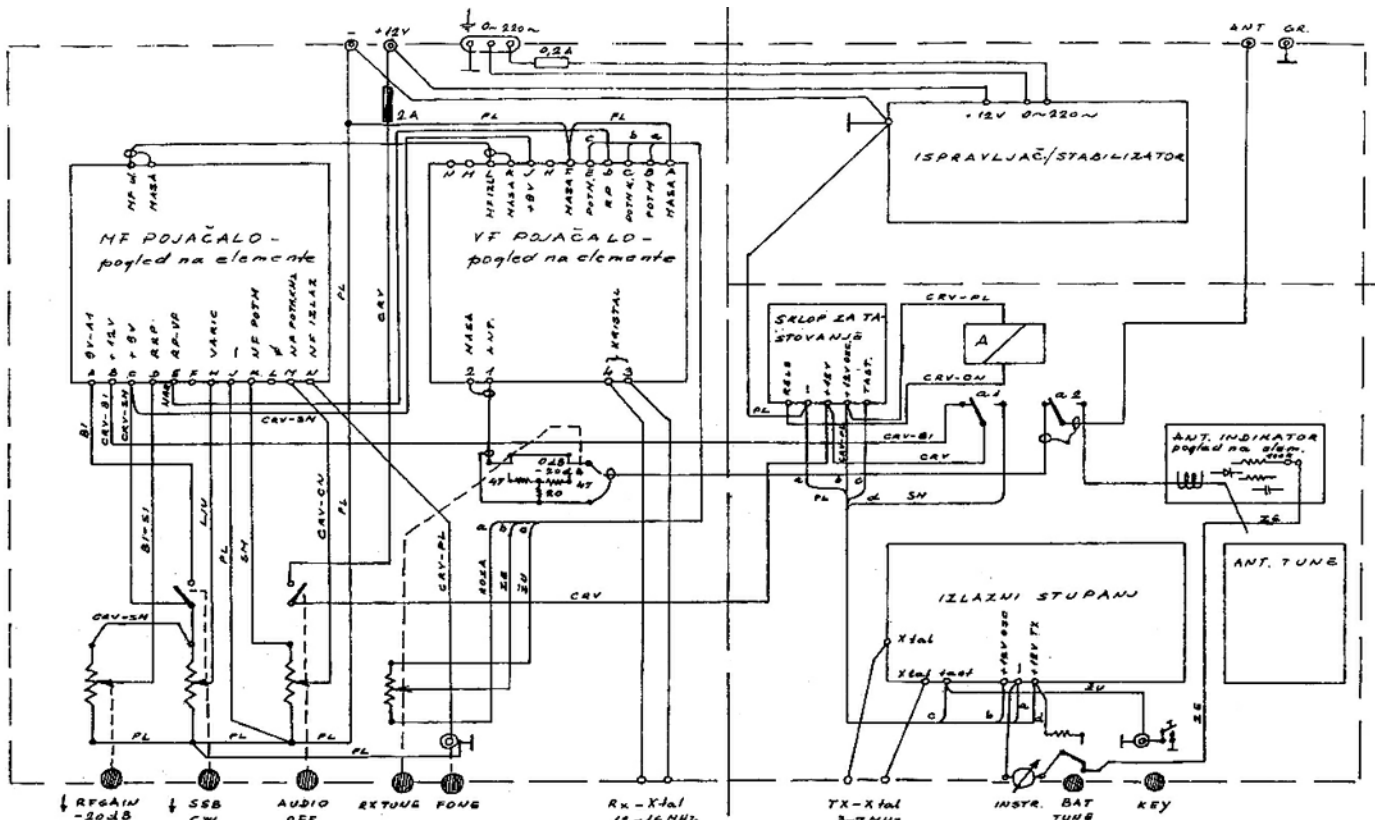
Bottom view of the set (left) showing second receiver board with 9MHz IF crystal filter, detector, BFO and AF stages. Note the use of a W-German KVG type XF9-B crystal filter. A Haller transmit-receive relay was fitted centre left just below the mains transformer, padded in foam plastic.



Top view of the set with cover removed (right). Mains power unit (top right); transmitter board and aerial matching (centre and bottom right). Receiver RF and mixer board (left).



Circuit diagram of transmitter section (above) and mains power unit (above right). The circuit diagram of the receiver section can be found in the 3-unit version RTP8-SSB/3 in Chapter 64.



Circuit diagram of internal wiring RTP8-SSB.