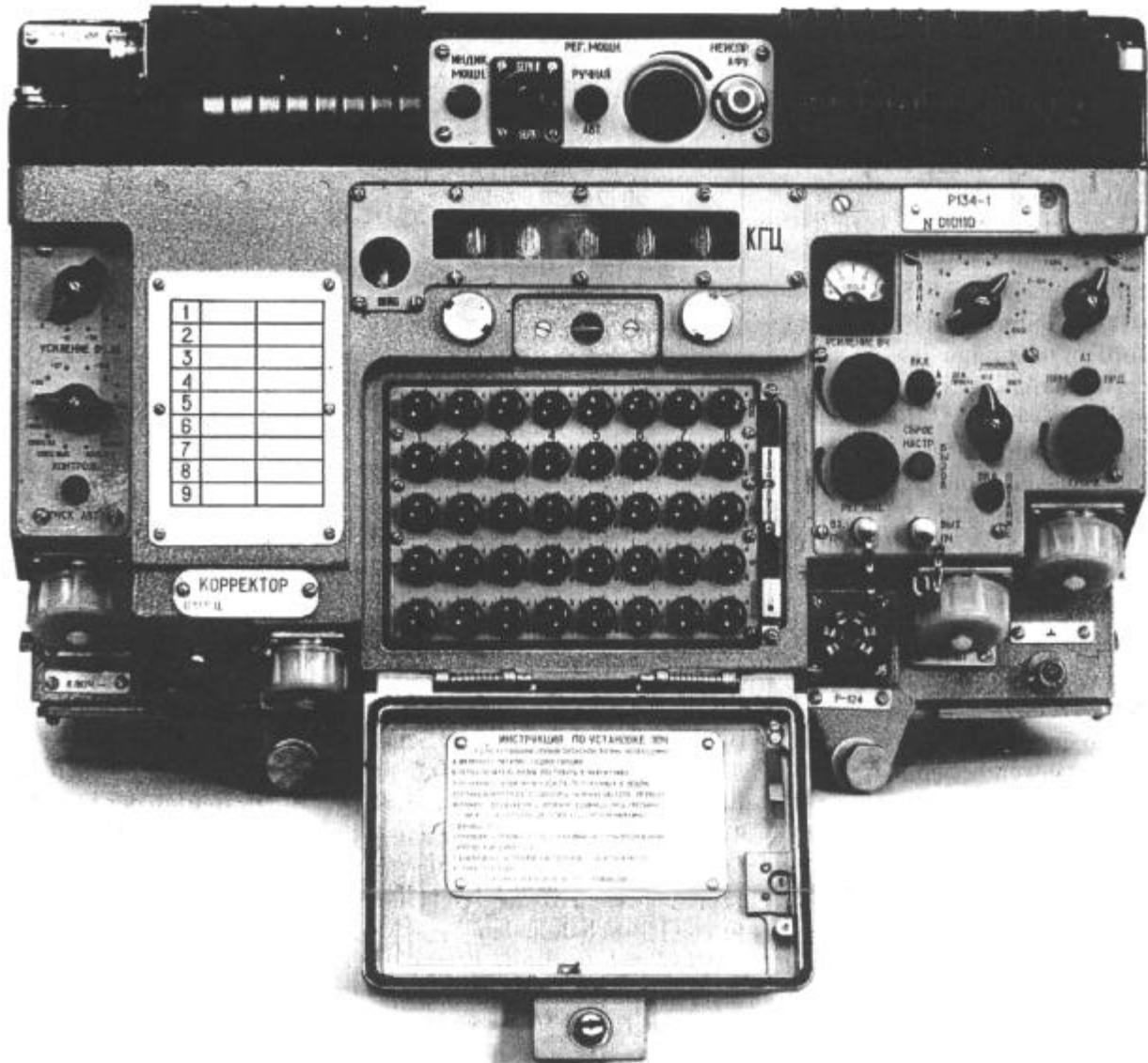


THE R134

by *Tony Helm, G4BCX*

The article I am presenting concerns a tank radio designed by the Hungarians (who had access to western technology via West Germany), and produced in 1987. In 1989 when the Wall fell down, the East German Army (the NVA) had 15 of them to evaluate. The radio is the R134. It was so new that it came too late to be introduced in Western literature on the Warsaw Pact. I have one of the 15 mentioned above - variant A2 (see specifications below).

The Radio Set R134 – with small knobs revealed for setting up preset channels



The radio has an 8-position switch, for 8 preset channels set up by the little knobs in the centre of the radio. Fully synthesised, eight channels can be set up anywhere in the frequency coverage.

The ATU (auto) is activated by a press-button below the switches on the LH side of the radio.

This is a very complicated radio, with, on my version, 3 tiny coax cables going to the telegraph converter. The receiver is very good, and operation is simple. It's the design that's complicated. This radio is in service with the Russian, Polish and Algerian armies for definite, probably many other non-European countries, with possibly the Bulgarian Army in Europe, as well as the Hungarian Army. It is not mentioned in Janes, as it was superseded in Russian service by the 161 series.

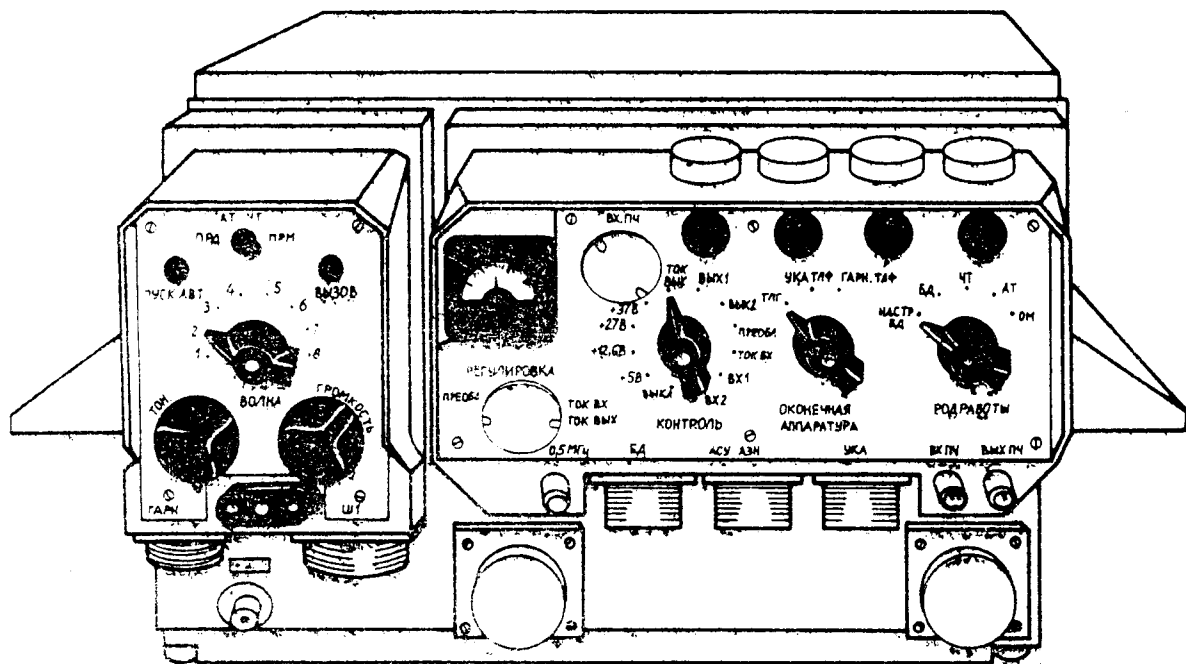
Specifications

Frequency coverage		Receiver sensitivity	
Variants T1 and T2	1.5 to 11.999MHz	J3B	4 μV
Variant V	1.5 to 19.999MHz	A1A	2 μV
Variants A1 and A2	1.5 to 29.999MHz	2 nd channel rejection	80dB
Tuning steps	1kHz, with digital readout	IF rejection	80dB
Frequency stability	±3 x 10 ⁻⁷	Adjacent channel selectivity at ±10kHz	70dB
Transmitter power		Working temperature range	-50°C to +50°C
HP	50 watts	Permissible humidity	98% at +40°C
LP	5 watts	Issued antennas	40m long dipole, 4m whip

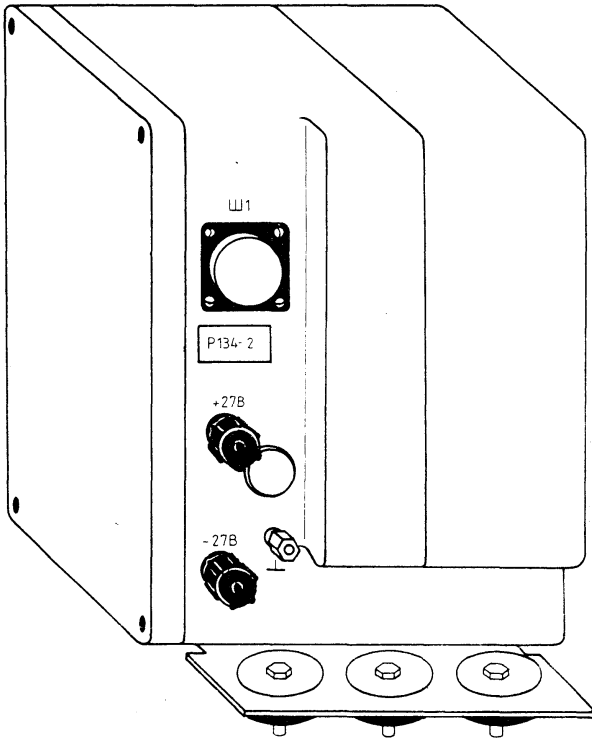
R134 variants

Variant	Major sub-systems
T1	R134, manual ATU
T2	R134, auto ATU
A1	R134, auto ATU
A2	R134, auto ATU, telegraph adaptor for RTTY
V	R134 as a driver for high power radio station, R156

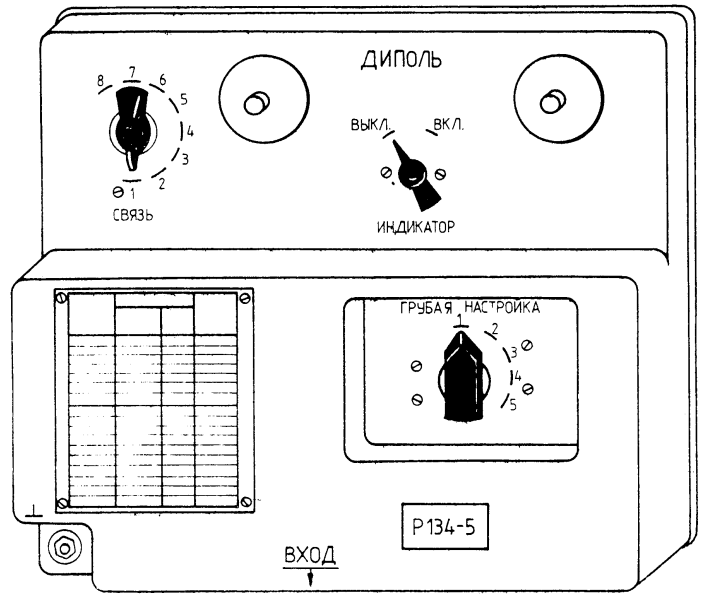
Accessories



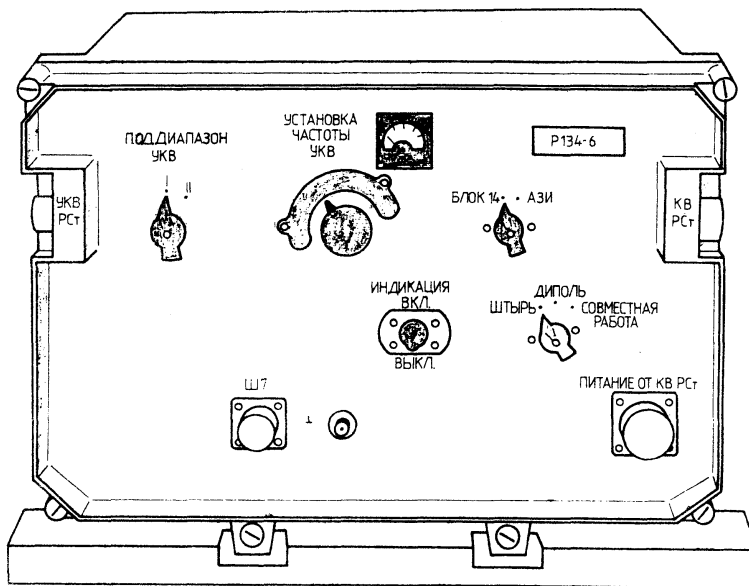
The R134 Telegraph Convertor



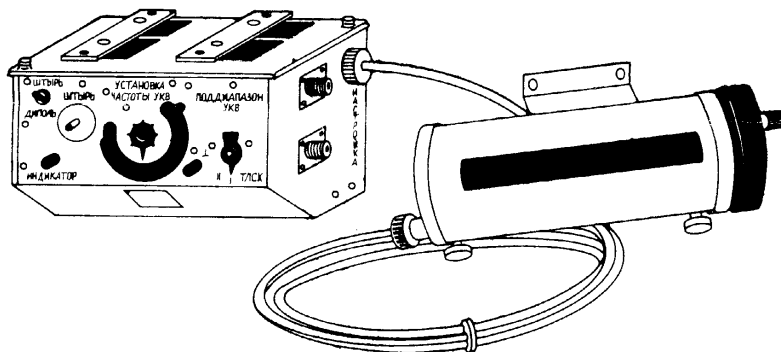
R134 Power Supply Unit



Adaptor, Dipole to manual ATU



Left: the Auto ATU. 1.5 – 30MHz. Dipoles, long wires, whips, etc.



Below: the manual ATUs, remote control (left), local control (right)

