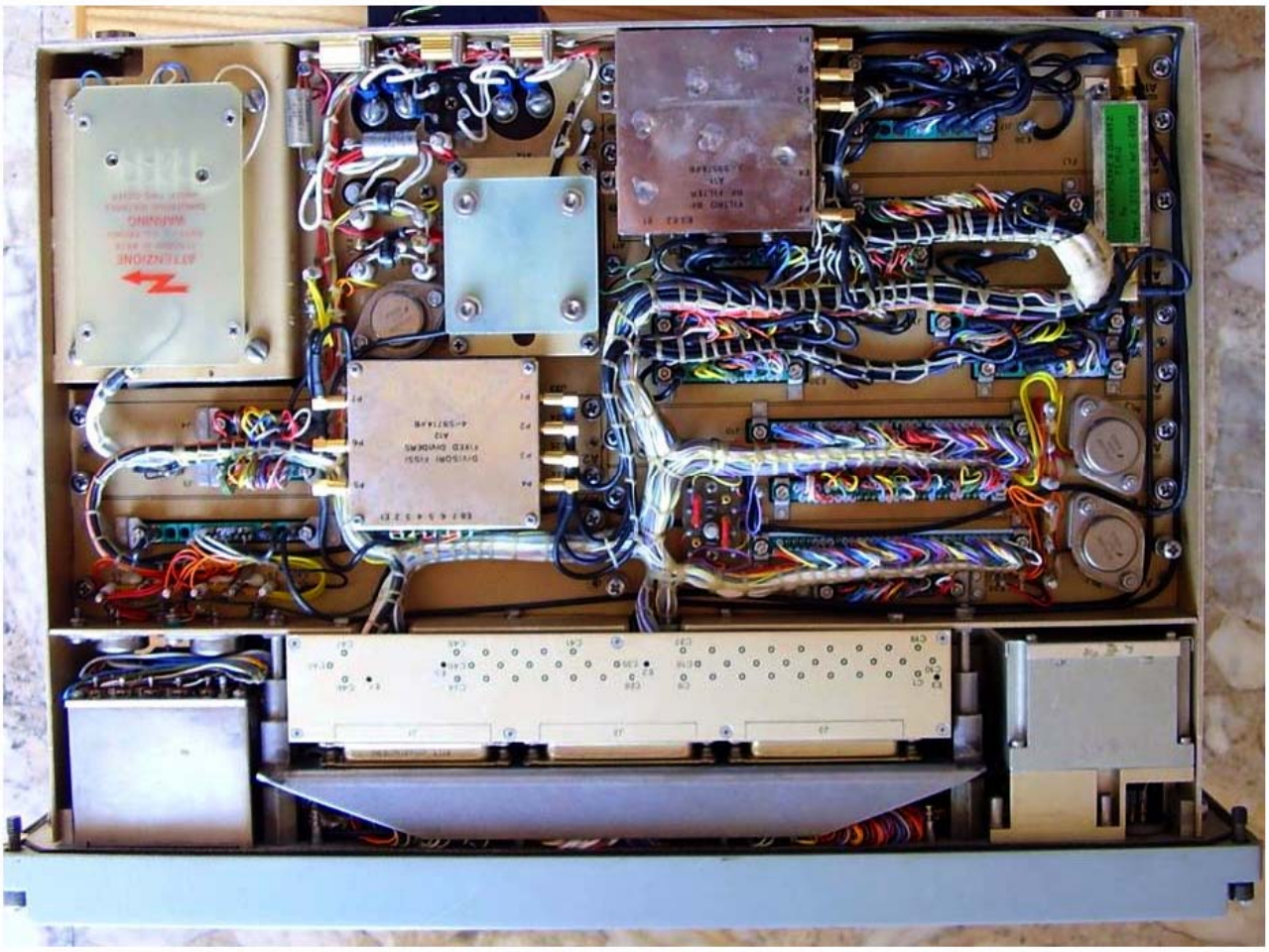
R-1003 – Elmer LF/MF/HF Receiver

The Elmer R-1003 is a high-performance communication receiver. It features voice/data operation and interoperability in Link-11 ntds data system. It can be remotely controlled by use of the TC-1003 remote control set.

- Modes include A1 (cw), A3H (am comp.), A3J (usb, lsb), A3B (isb), A3 (am), A9B (voice + FSK), F1 (fsk, with external demodulator).
- Tuning range: from 10 KHz to 30 MHz, 10 Hz minimum step
- Stability: better than 0.01 ppm over 24 h.
- Sensitivity:
  - USB, LSB, SSB, better than 1 µV for (s+n)/n = 20 dB
  - AM/CW(wb), better than 3 µV for (s+n)/n = 20 dB
  - CW narrow-band, better than 1.5 µV for (s+n)/n = 20 dB
- Power supply: 115/220 VAC, single-phase, 45 to 65 Hz
- Temperature range, operating: -10 to +55ºC

*** Data from Jane's Military Communications 1981, Second edition.**

In the picture below, internal details of the receiver

TRASLATORE RF
RF TRANSLATOR
IF AUDIO
SINTETIZZATORE
SYNTHESIZER
CONVERTITORE DI CODICI
CODE CONVERTER
MODALITÀ
MODES
ALIMENTATORE
POWER SUPPLY
ESTENSORE DI GAMMA LF/MF
LF/MF BAND EXTENDER
P = 90 VA
V1-4 : 220 VAC
V1-5 : 115 VAC
V5-6 : 25 VAC
f = 45÷65 Hz