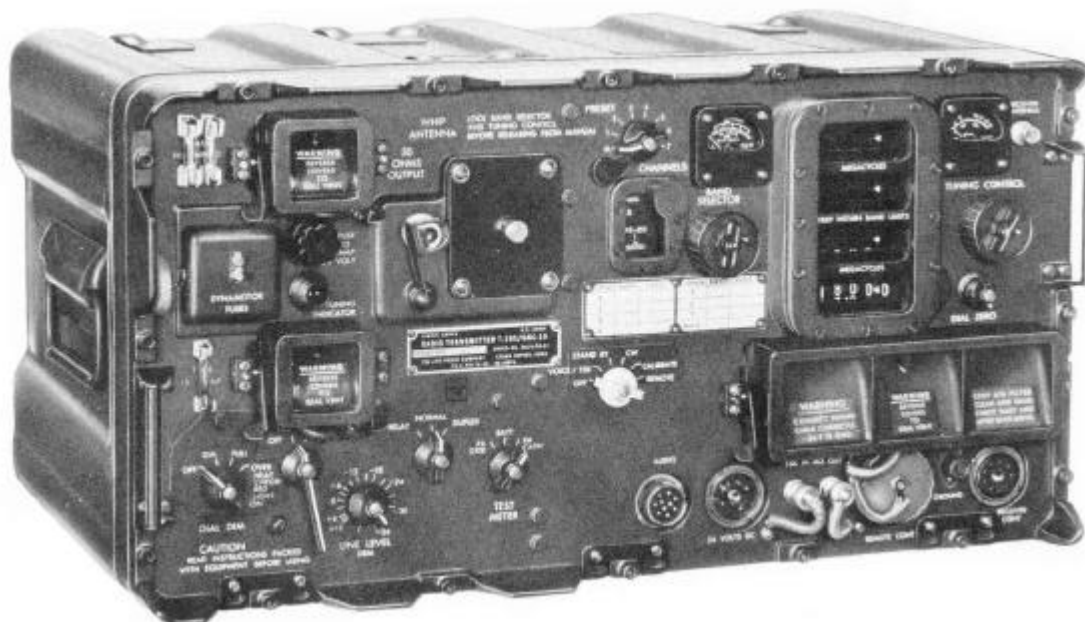


AN UNUSUAL SET

Tony Helm, G4BCX, has responded to queries from Tom, GW3LJS and other members of the AM net with brief details of his unusual Nato set, the GRC-19. The GRC (Ground Radio Complete) – 19 consists of the T-195 transmitter and R-392 receiver.

- Tactical deployment: tank battalion, H.F., Rear link, high power.
- End users: Armies of the USA, Belgium, Holland and Germany.
- Manufacturer: Collins Radio, through sub-contractors for both Tx and Rx.
- Derivation: the T-195 Tx is derived from the ART-13. Operating frequency is manually selected and locked: all further tuning and loading functions are then entirely automatic by a motor driven system. The whole is contained within a rugged green box.
- The R-392 is a simplified version of the R-390A, minus the filters, i.e. it has a limited selectivity choice. It runs from 24 volts only, i.e. the valves have a 24 volt HT rail. It was then shoe-horned into a relatively small green box *[relative to the rather massive R-390A! – Ed]*
- Frequency coverage: Tx: 1.5 – 20 MHz.
Rx: 0.5 – 30 MHz.
- Power output: (no low power selection) max into a dipole, 100W CW, 60W AM.
- Supply voltage: 22 – 30 volts DC. (Optimum is 28.5 volts).
- Supply current: Send: 44 amps, starting surge: 250 amps.
Receive: 9 amps.
- Weight: 253.5 lbs (115Kgs).

[Tony has a very fine example of the GRC-19. The system has many unusual features and is most impressive, with several motors whirring away to auto-tune the Tx, and a very powerful and noisy blower system to keep it cool. – Ed]



The T-195 transmitter – note the absence of multiple tuning controls due to the auto-tune system