

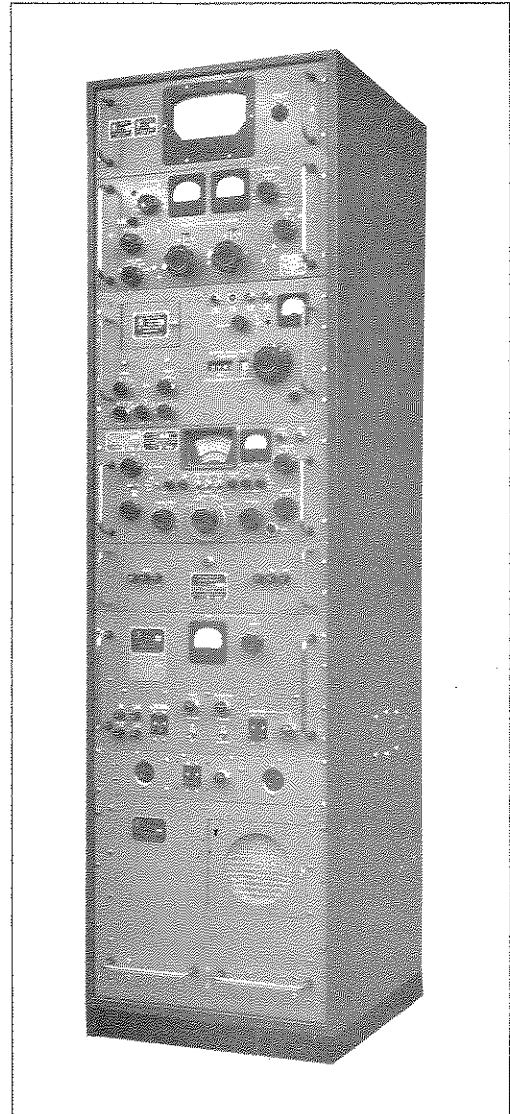
Radio Transmitter
TMC Model SBT-1K-L
AN/FRT-57

The TMC Model SBT-1K-L is a general purpose radio transmitter capable of providing SSB, ISB, DSB, AM, CW and FS operation throughout the frequency range 2 to 32 megacycles.

This transmitter is versatile, easy to install, operate and maintain. It is completely bandswitched with all tuning done from the front panels. Drawers slide out and tilt over for quick and easy replacement of components and repairs. A filtered forced air system provides maximum heat dissipation.

A Standing Wave Ratio indicator is included to accurately indicate Forward Power, Reflected Power and SWR. Also furnished is an Auxiliary Power Panel to provide convenience outlets.

(For a transmitter without the Variable Frequency Oscillator and Sideband Exciter see Sales Service Bulletin Number 256 covering the TMC Model SBT-1K-Q, AN/FRT-56).



TECHNICAL SPECIFICATIONS:

FREQUENCY RANGE:	2 - 32 megacycles continuously tunable.
OUTPUT POWER:	At least 1000 watts PEP - 1000 watts CW-FS.
OPERATING MODES:	AM, CW, SSB, ISB, DSB, FS.
OUTPUT IMPEDANCE:	50 or 70 ohms unbalanced.
INPUT CONNECTIONS:	Type UHF Coaxial.
OUTPUT CONNECTIONS:	Type QDS Coaxial.
SIGNAL/DISTORTION RATIO:	40 db down from full PEP output.
HARMONIC SUPPRESSION:	Second: at least 40 db down from PEP output. Third: at least 50 db down from PEP output.

STABILITY: SBE-3 - Crystal controlled. 1 part in 10^6 .
 VOX - Better than 20 PPM for 30° change in ambient.

FREQUENCY CONTROL: VOX - Continuously tunable, direct reading VFO.
 SBE - 10 oven controlled crystal positions plus provision for external VFO.

TUNING: All tuning and bandswitching controls are on the front panels. (No plug-in components)

UNWANTED SIDEBAND REJECTION: 1000 cycle single tone, 60 db down.

CARRIER INSERTION: - 55 db to full output.

AUDIO RESPONSE: Flat within plus or minus 1.5 db, 350 to 7500 cycles.
 (Each Sideband)

VOX OPERATION: Voice control with anti trip features. Adjustable gain and squelch.

METERING: Meters accurately monitor operation of the transmitter.

OUTPUT STAGE: PL-172 tube.
 Pi output network.

AUDIO INPUT: 500 K ohms for high impedance crystal or dynamic mike. -50 db for full RF Output. Two independent 600 ohm channels, balanced or unbalanced -20 db level for full output.

ALDC: An automatic load and drive control is provided to limit distortion during high drive peaks or load changes.

COOLING: Pressurized cabinet forced air system for maximum heat dissipation.

TEMPERATURE AND HUMIDITY: Designed to operate in any ambient temperature between the limits of 0-50 degrees C for any value of humidity up to 90%.

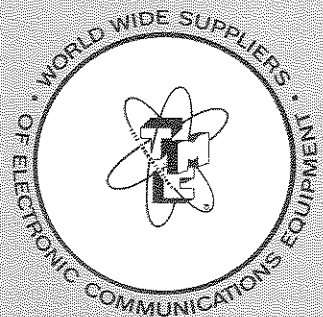
SAFETY FEATURES: Full interlock protection.
 Full overload and fuse protection.

COMPONENTS AND CONSTRUCTION: All equipment manufactured in accordance with JAN/MIL Specifications wherever practicable.

SIZE: 72" high x 20-1/2" wide x 21-1/2" deep.

POWER REQUIREMENTS: 115/230 Volts 2120 Watts Average
 Single Phase 2140 Watts Peak
 50/60 Cycle AC

WEIGHT: 1100 lbs.



The TECHNICAL MATERIEL CORPORATION

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