

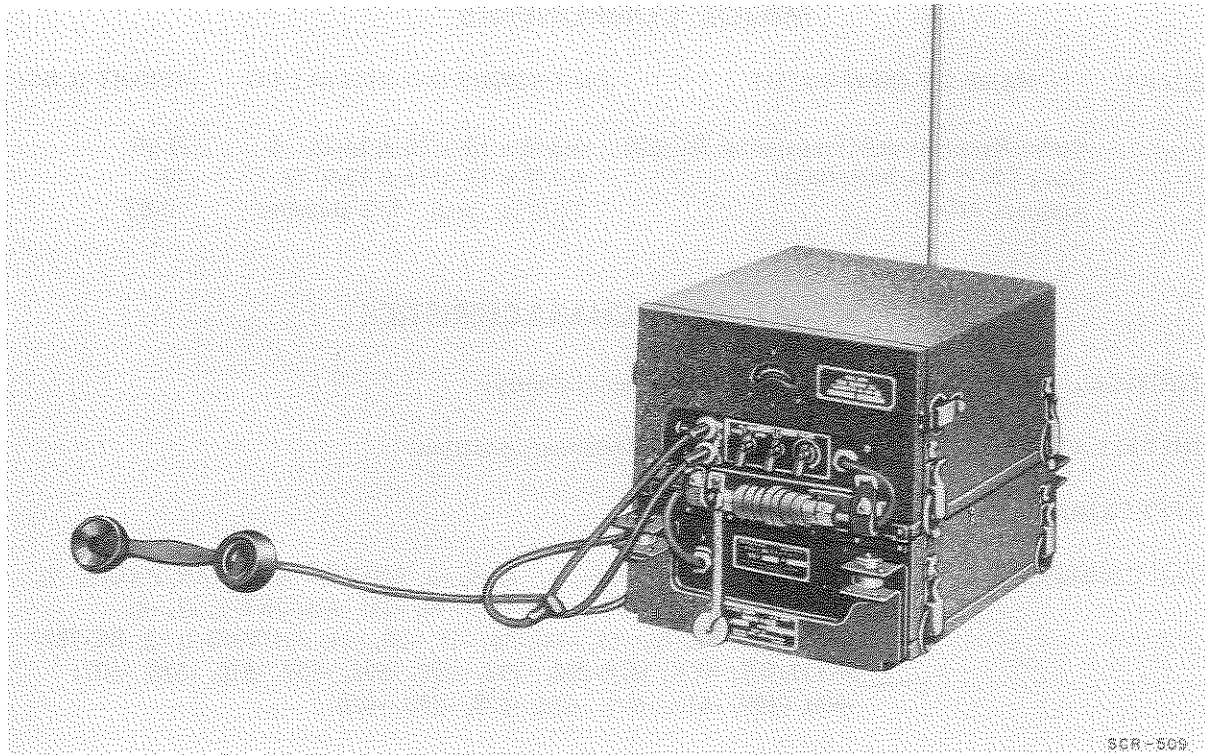
STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army, Navy
DATE OF THIS SHEET: 22 Jan 52

AN/PRC-TYPE

SERVICE TYPE NUMBER:

SCR-509

RADIO SET



Radio Set SCR-509 is a portable, short-range, low-power, f-m (voice only), radio receiving and transmitting equipment used by armored, field artillery, and infantry units. The set is designed for operation on the ground but can be installed in a vehicle.

This equipment consists of a receiver-transmitter, a metal case containing the batteries, an antenna, and related accessories. The receiver-transmitter is mounted on the battery case by means of trunk-type clasps. It provides 80-crystal-controlled channels spaced 100 kc apart, two of which can be preset.

It can be operated from a remote point over a telephone pair by means of standard remote control apparatus.

Can be operated from the storage battery when installed in a vehicle by substituting Power Supply Unit PE-120 for Case CS-79. When so arranged the SCR-509 is identical with Radio Set SCR-510.

AN/PRC-TYPE		INSTRUCTION LITERATURE: TM 11-605
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver and Transmitter BC-620	6-3/4 x 13-3/16 x 14-15/16	27.20
1	Case CS-79 (for batteries)	4-1/2 x 13-3/16 x 15-9/16	10.
1	Antenna AN-45	17-3/16 high 1/2 diameter	0.63

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Armored units, field artillery, and infantry.

INSTALLATION: Portable pack; operates from stationary position.

APPROXIMATE RANGE (IN MILES): 5

CAN COMMUNICATE WITH: AN/FRT-5, -6; AN/GRC-3, -4, -5, -6; AN/MRC-3, -16; AN/PRC-8, -9; AN/SRR-13; AN/TRQ-1; AN/URR-10, -12; AN/URT-2, -3, -4; AN/VRC-5, -8, -9, -13, -14, -16, -17, -20, -21; AN/VRQ-1, -2; BC-787; R-137/GR; RBK; SCR-293, -294, -298, -508, -509, -510, -528, -607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES : 20.0 - 27.9.

TYPE MODULATION : Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 1.8 w.

POWER REQUIREMENTS: Battery BA-39, Battery BA-40, and Battery BA-41.

PHYSICAL CHARACTERISTICS

Radio Set SCR-509 packed for export shipment: total weight 210 pounds, total volume 9 cu ft.
Shipped in 3 packages both domestic and export.