

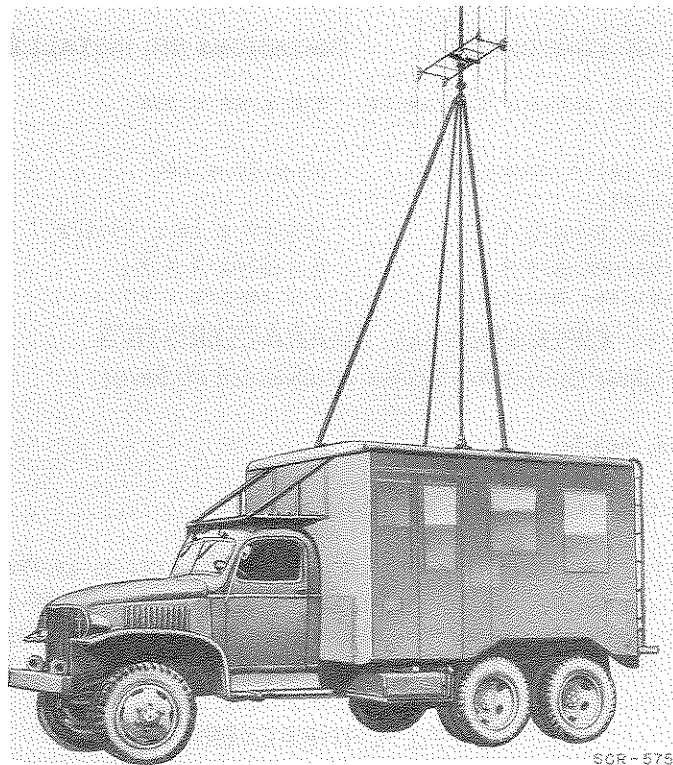
STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Air Force
DATE OF THIS SHEET: 26 May 52

AN/MRN-TYPE

SERVICE TYPE NUMBER:

SCR-575

RADIO SET



Radio Set SCR-575 is a complete v-h-f, ground, mobile direction finding, and two-way radio communication set for a-m (voice, cw, and icw) operation in the frequency range of 100 to 156 mc. It is normally used in v-h-f Fighter Control Net Systems for ground-to-air and point-to-point communication.

This radio set operates on four crystal-controlled, preset, push-button selected channels for reception or transmission. In addition to the BC-624 receiver component (part of Radio Set SCR-522-A) there are two Radio Receivers BC-639 which are manually tuned and provide for direction finding as well as for regular communication. One receiver is normally used for stand-by operation.

Antenna Equipment RC-153 is a large manually rotatable, azimuth-calibrated equipment used for communication, and for direction finding by either visual, or aural-null methods. This is mounted on Truck K-53 which carries all the equipment necessary for operation of the radio set (except the power unit which is trailer-drawn).

Relay Unit BC-687 is used for remote control operation over telephone lines.

The power unit normally supplies 4,080 w for all apparatus including heating of the operating compartment in Truck K-53.

For limited emergency operation of the radio equipment only, batteries are available.

AN/MRN-TYPE		INSTRUCTION LITERATURE: TM 11-227 TO 16-40 SCR 575-3
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Truck K-53 (with Antenna Equipment RC-153-A)	130 x 96 x 256	13,385.0
1	Trailer K-63 (with Power Unit PE-99, or equal)	72 x 72 x 144	2,860.0
2	Radio Receiver BC-639-A	10-1/2 x 19 x 13-1/2	36.0 each
1	Radio Receiver BC-624-A	6 x 15-1/2 x 9	14.5
1	Radio Transmitter BC-625-A	6 x 15-1/2 x 9	16.25

OPERATIONAL CHARACTERISTICS

TACTICAL USE: In a Fighter Control Net System at advanced air bases.

INSTALLATION: Ground, mobile.

APPROXIMATE RANGE (IN MILES): (Nominal) Line of sight.

CAN COMMUNICATE WITH: AN/ARC-1, -3, -5, -18, -28, -36; AN/CRC-2; AN/FRC-7; AN/GRC-30; AN/MRC-16, -20, -22; AN/PRC-17, -20; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-10, -12, -21; AN/URT-7, -10; AN/VRC-1; BC-639, -640; MAR; MBS; R-137/GR; RBK; RBQ; RC-103, -256, -257; RCK; RCO; SCR-522, -542, -573, -574, -575, -607, -616, -624, -641, -643, -644; TDQ; TDO; TDT; ARC Type 12; Wilcox 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 100 - 156.

Transmitter: BC-624-A, 4 preset crystal-controlled channels (Part of SCR-522-A).

BC-625-A, 4 preset crystal-controlled channels (Part of SCR-522-A).

2 BC-639-A continuous tuning.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Transmitter: Voice.

Receiver: Voice, tone, cw.

POWER OUTPUT: Transmitter: 6 w.

Receiver: Maximum 1 w into 600 ohm impedance.

POWER REQUIREMENTS: 4,080 w with heaters) 110 v, 60 cyc, 3 phase, ac (from PE-99) or
1,080 w without heaters) 110-120 v, 50/60 cyc, 1 phase, ac (from commercial source).

Emergency Use: Four 12-v plus two 6-v storage batteries (two 12 v plus one 6 v in use, two 12 v plus one 6 v in reserve).

PHYSICAL CHARACTERISTICS

Radio Set SCR-575 installed in truck weighs 16,312 pounds net, volume 2,272 cu ft, 56.8 ship tons.

Packed for either domestic or export shipment: total weight 16,312 pounds, total volume 2,272 cu ft, 56.8 ship tons. Shipped in 1 package both domestic and export.