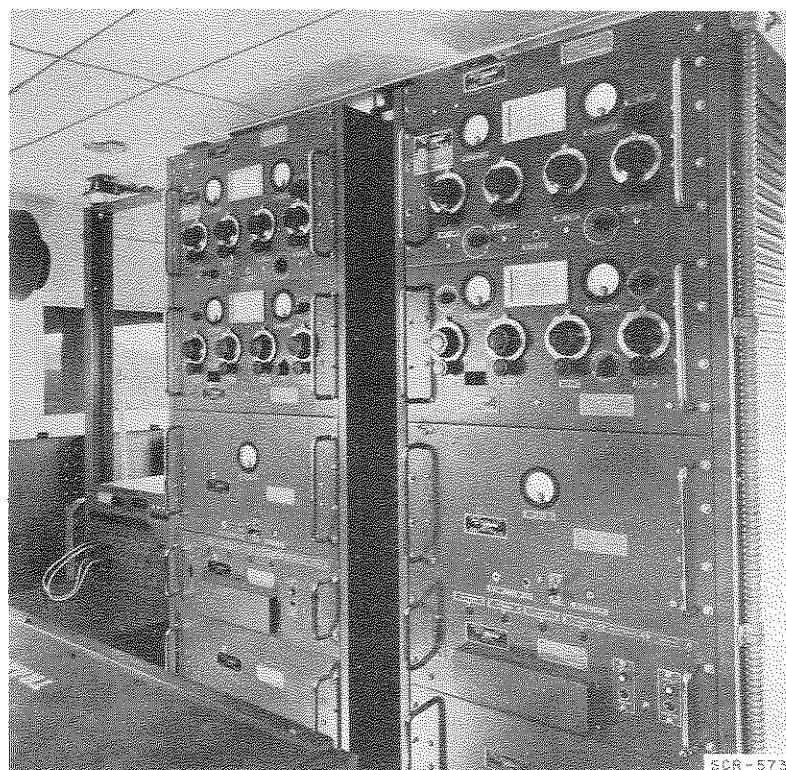


STATUS: Standard	AN/MRT-TYPE
CLASSIFICATION OF EQUIPMENT: Unclassified	
USING SERVICE: Air Force, Navy	
DATE OF THIS SHEET: 9 Jun 52	
	SERVICE TYPE NUMBER: SCR-573
	RADIO SET



Radio Set SCR-573 is a-m or tone-modulated, v-h-f, transmitting equipment for ground-to-air, and point-to-point communication. It is normally operated as mobile equipment from Truck K-53, and Trailer K-63, both of which are supplied. Radio Set SCR-573-A (transmitting station) when used with Radio Set SCR-574-A (receiving station) comprises a two-way, v-h-f Fighter Control Net System.

Two BC-640 transmitters, each operating on one preset, crystal-controlled frequency, provide dual channel transmission.

Equipment can be controlled locally, or by remote control over standard telephone lines from a distance of 60 to 120 miles. The distance between transmitters and receivers should be at least 1/4 mile and not more than two miles, because the transmitters can block out receivers operating in adjacent channels.

Recommended antenna system consists of Antenna AN-86 (76 feet), two Antenna Equipments RC-81, and associated coaxial cable.

Power is normally furnished by Power Unit PE-99 (part of Radio Set SCR-573), or an equivalent source.

Power requirements are 5.5 kva of 110-v, 50/60-cyc, single phase ac (with electric heaters), 2.2 kva (without the electric heaters).

AN/MRT-TYPE		INSTRUCTION LITERATURE: TO AN-40SCR573-2
SCR-573	SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET		USING SERVICE : Air Force, Navy DATE OF THIS SHEET : 9 Jun 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Truck K-53	130 x 96 x 256	13,385
1	Trailer K-63 (with PE-99)	72 x 72 x 144	2,860
2	Radio Transmitter BC-640	72 x 21 x 20	515
1	Control Unit RM-27	11-3/8 x 19 x 10-1/2	29
1	Antenna AN-86-A	25 cu ft	743
2	Antenna Equipment RC-81-A	12 x 28 x 38	4

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally issued on any organizational level as project material in accordance with AFR 100-17.

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-20, -22; AN/PRC-17, -20; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-10, -12, -21; AN/VRC-1; BC-639, -787; MAR; MBS; R-137/GR; RBK; RBQ; RC-103, -256; RCK; RCO; SCR-522, -542, -574, -575, -607, -616, -624, -641, -644.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 150 - 156.

2 preset crystal-controlled frequencies (one for each transmitter) providing simultaneous transmission on 2 channels.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice or tone.

POWER OUTPUT: 50 w, per transmitter.

POWER REQUIREMENTS: 2.5 kva, 110 v, 50/60 cyc, 1 phase, ac, or
7.5 kva, 120 v, 50/60 cyc, 3 phase, ac (from PE-99).

PHYSICAL CHARACTERISTICS

Radio Set SCR-573-A, installed in truck net weight 17,760 pounds, volume 2,275 cu ft, 8.75 ship tons. Packed for either domestic or export shipment: total weight 17,760 pounds, total volume 2,275 cu ft, 8.75 ship tons. Shipped in 2 packages both domestic and export.