

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Air Force, Navy

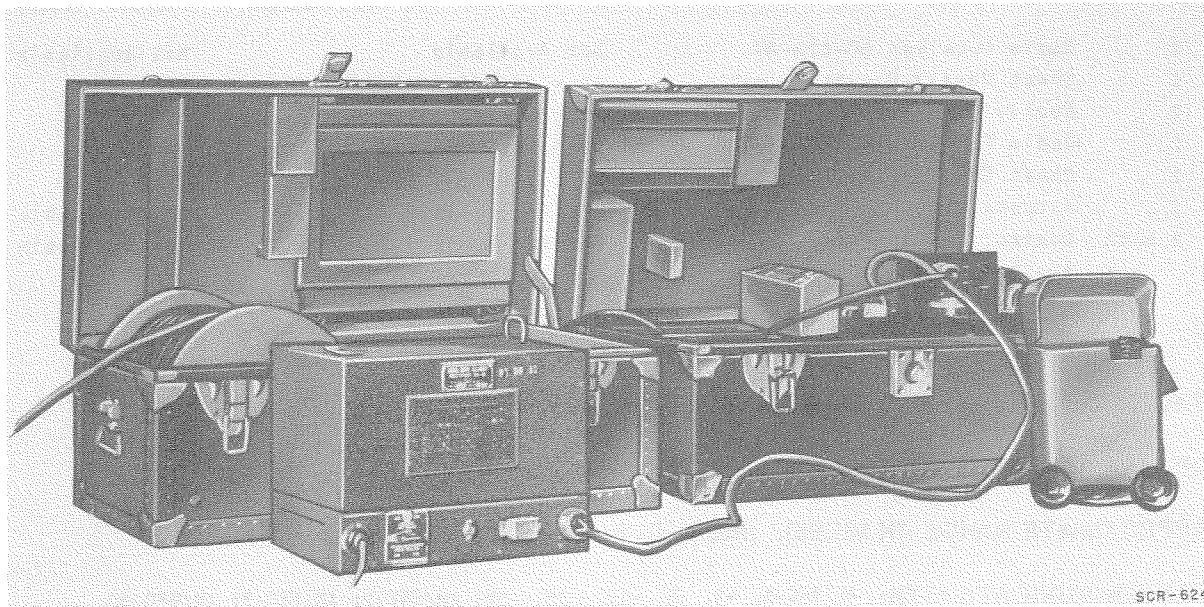
DATE OF THIS SHEET: 26 May 52

**AN/CRC-TYPE**

SERVICE TYPE NUMBER:

SCR-624

RADIO SET



Radio Set SCR-624 is a complete radio ground station consisting of a transmitter and receiver designed for two-way, v-h-f communication. It is especially constructed for transportation by air. Radio Control Box BC-602-B may be used at the transmitter or from a remote position up to 500 feet away for channel selection, as well as send-receive communications; it may also be used up to two miles for send-receive control only.

This radio set consists of Radio Transmitter BC-625-A and Radio Receiver BC-624-A housed together in one case.

A separate power unit, antenna, remote control unit, jack boxes, and interconnecting cables are also supplied.

The transmitter and receiver each use four separate crystals (total 8 crystals) to provide 4 preset operating channels.

An antenna change-over relay is incorporated in the set, which permits using one Antenna AN-94-A, -B, or -C, mounted on Antenna Mast MA-7-A for both transmitting and receiving.

The transmitter provides 6-8 w output on either voice or tone modulation; the receiver output is 10 mw into a 300 ohm or 4,000 ohm resistive load.

Requires 325-w, 100-130/200-260-v ac.

Radio Sets SCR-624-B, SCR-542-A and SCR-522-A, are all identical operationally, and all similar units are mechanically interchangeable; the major differences are in the power supply requirements and method of installation.

**AN/CRC-TYPE**

SCR-624

:SERVICE TYPE NUMBER

RADIO SET

INSTRUCTION LITERATURE:

TO 16-40SCR624-2

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE : Air Force, Navy

DATE OF THIS SHEET : 26 May 52

**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver BC-624-AM	Not Available	Not Available
1	Chest CH-172-B containing:	34 x 16-3/4 x 15-3/4	205
1	Rectifier RA-62-B	16 x 11-5/32 x 10-5/8	75
1	Radio Transmitter BC-625-AM	16-5/32 x 12-9/16 x 10-11/16	49
1	Chest CH-173-B containing:	34 x 16-3/4 x 15-3/4	205
1	Antenna AN-94-B	Not Available	Not Available
1 each	Control Box BC-1312, BC-1313, BC-1314	Not Available	Not Available

**OPERATIONAL CHARACTERISTICS**

TACTICAL USE: Issued as project material in accordance with AFR 100-17.

INSTALLATION: Ground, fixed.

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, -575, -607, -616, -624, -641, -643, -644; TDG; TDQ; TDT;  
 ARC Type 12; Wilcox 99A.

**TECHNICAL CHARACTERISTICS**

FREQUENCY RANGE IN MEGACYCLES: 100 - 156.

Receiver: 4 preset crystal-controlled channels.

Transmitter: 4 preset crystal-controlled channels.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 6-8 w (Nominal).

POWER REQUIREMENTS: 325 w, 100-130/200-260 v, 50/60 cyc, 1 phase, ac.

**PHYSICAL CHARACTERISTICS**

Radio Set SCR-624 measures 72 x 84 x 84 inches, net weight 669 pounds, volume 50 cu ft.

Packed for either domestic or export shipment: total weight 773 pounds, total volume 62 cu ft.

Shipped in 5 packages both domestic and export.