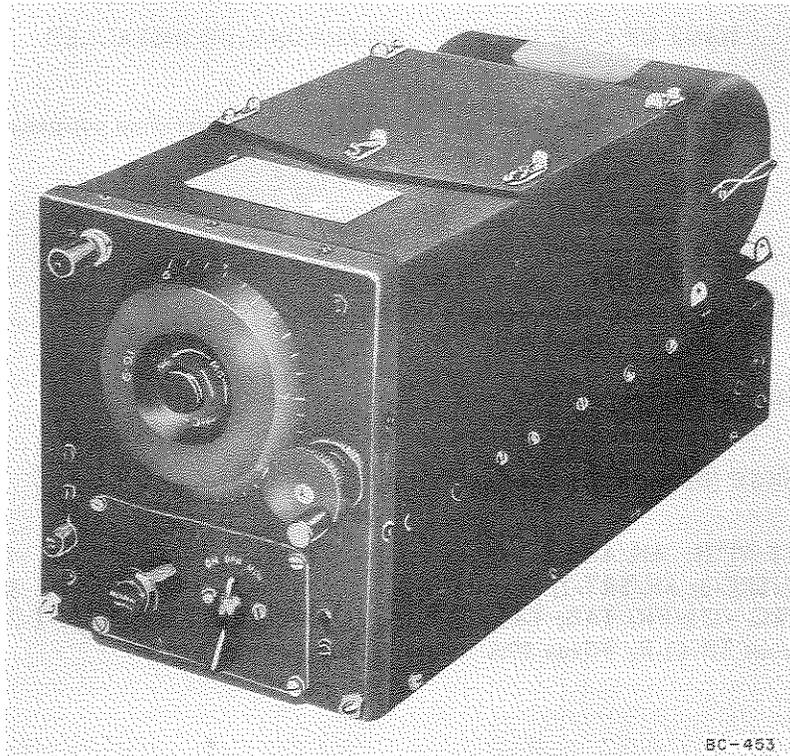


STATUS: Standard	AN/ARR-TYPE
CLASSIFICATION OF EQUIPMENT: Unclassified	
USING SERVICE: Air Force	
DATE OF THIS SHEET: 10 Jun 52	
SERVICE TYPE NUMBER: BC-453	
RADIO RECEIVER	



Radio Receiver BC-453 is an airborne a-m and c-w receiver for continuous coverage of the l-f band (short to medium). It is used for ground-to-air and air-to-air reception. There are two models of this receiver (BC-453-A and BC-453-B); the only difference between the two models is that the BC-453-B has a tapped audio output transformer for 8,000-ohm and 600-ohm output impedances and the BC-453-A has only an 8,000-ohm output.

The intermediate frequency is 85 kc.

The recommended type of antenna for this receiver is a long fore-and-aft inverted L or T type aircraft antenna.

The receiver may be either locally or remotely controlled.

It is equipped with a dynamotor power supply operating from 44.8 w, 28 v dc. Radio Receiver BC-453-A is normally part of Radio Set SCR-274-N.

AN/ARR-TYPE		INSTRUCTION LITERATURE: TO 16-40SCR-274-5
BC-453	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO RECEIVER		USING SERVICE : Air Force DATE OF THIS SHEET : 10 Jun 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
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(Equipment consists only of a single major operating component.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally used in light bomber and trainer aircraft.

INSTALLATION: Aircraft, shock mounted.

APPROXIMATE RANGE (IN MILES): (Nominal) short to medium.

CAN COMMUNICATE WITH: AN/ARC-8; AN/ART-13; AN/CRT-3, -5; AN/FRT-10, -19; AN/GRT-2; AN/MRC-20; AN/SRC-3; AN/SRT-1, -3; AN/TRQ-1; AN/URT-2, -3, -4; BC-191, -329, -365; SCR-177; T-5/FRC, -171/FR; TAB; TAJ; TAQ; TBL; TBN; TBU; TBW; TCE; TCY; TCZ; TDD; TDE; TDK; Marconi TH-41-B; Wilcox 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.19 - 0.55.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Tone, cw, voice.

POWER OUTPUT: 10 mw (nominal).

POWER REQUIREMENTS: 44.8 w, 24/28 v, (1.6 amp) dc.

PHYSICAL CHARACTERISTICS

Radio Receiver BC-453 measures 6-11/16 x 7-11/32 x 13-1/8 inches, net weight 11.2 pounds, volume 0.35 cu ft. Packed for domestic or export shipment: total weight 13 pounds, total volume 0.4 cu ft. Shipped in 1 package.