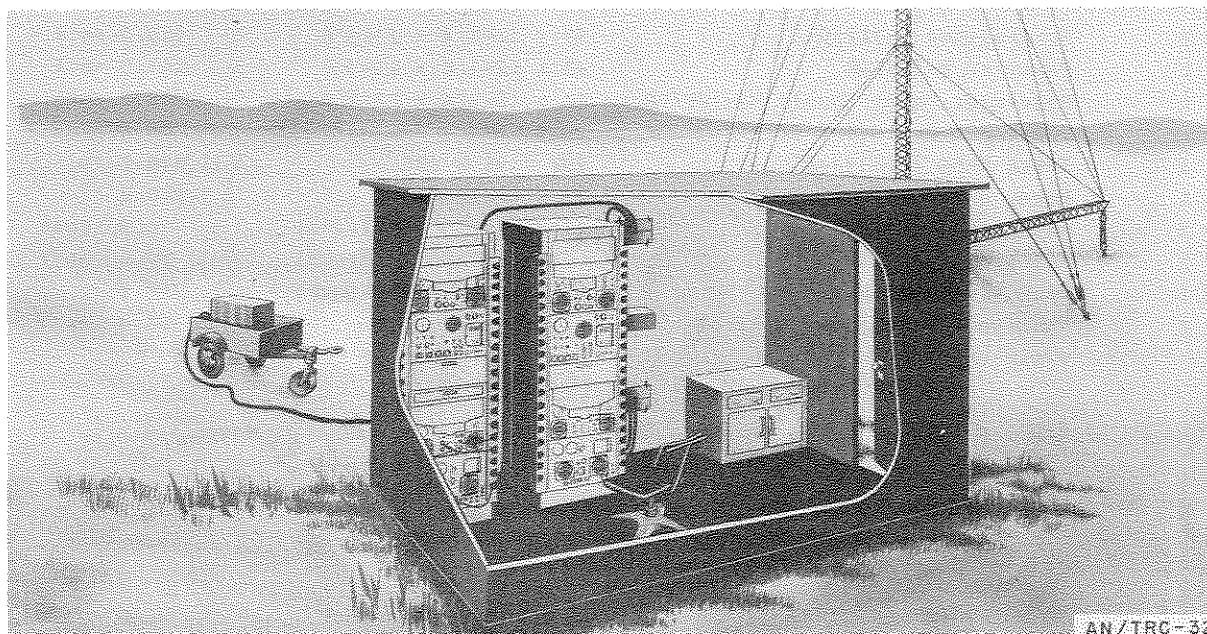


STATUS: Substitute Standard
 CLASSIFICATION OF EQUIPMENT: Restricted
 USING SERVICE: Air Force
 DATE OF THIS SHEET: 10 Jun 52

AN/TRC-32

RADIO SET



Radio Set AN/TRC-32 is a fixed, ground, or mobile u-h-f communication set for dual operation in the frequency range 225.0 to 399.9 mc. This radio set is a u-h-f vehicular installation designed to communicate primarily with aircraft equipped with Radio Sets AN/ARC-27, AN/ARC-33, AN/ARC-34, or similar equipments, installed in aircraft, to give complete coverage of all line-of-sight u-h-f ranges used in aircraft operations. The equipment supplied comprises two transmitters, two receivers and two units of all necessary items for dual operation.

Radio Transmitter T-217/GR operates on any 10 preset channels between 225.0 and 399.9 mc; Radio Receiver R-278/GR operates on any 10 preset channels between 225.0 and 399.9 mc, plus any two crystal-controlled guard frequencies in the 238.0 to 248.0 mc frequency range.

This equipment matches 53-ohm coaxial cable, such as RG-8/U. Two Antennas AT-197/GR and one Antenna AS-505/GR are supplied.

All equipment, with the necessary operating accessories, is normally transported in 2-1/2-ton truck (Modified K-53) and a 1/2-ton trailer for a power unit.

Remote control operation is possible for a maximum distance of 10 miles over a single field wire pair (for channel selection, push-to-talk and monitoring).

AN/TRC-32	INSTRUCTION LITERATURE: Not Available
	CLASSIFICATION OF EQUIPMENT: Restricted
	USING SERVICE : Air Force
RADIO SET	DATE OF THIS SHEET : 10 Jun 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
2	Transmitter T-217/GR	19 x 12-1/4 x 22-3/8	150.0 each
2	Receiver R-278/GR	19 x 12-1/4 x 22-3/8	144.0 each
2	Modulator Power Supply MD-129/GR	19 x 12-1/4 x 22-3/8	180.0 each
2	Radio Set Control C-565/GR	19 x 12-1/4 x 11-1/2	90.0 each
1	Truck K-53 (Modified)	130 x 96 x 256	11,575.0
1	Power Unit	73 x 72 x 144	2,600.0
2	Antenna AT-197/GR	(Transported in Truck)	6.5 each
1	Antenna AS-505/GR	(Transported in Truck)	60.0 each
1	Mast AB-158/GR	(Transported in Truck)	650.0
2	Receiver-Transmitter Control Group OA-193/GR	23 x 13-1/2 x 21	105.0 each

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally used for air-to-ground traffic control at advanced air bases.

INSTALLATION: Ground, mobile, or fixed.

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

CAN COMMUNICATE WITH: AN/ARC-12, -19, -27, -30, -33, -34; AN/GRC-16, -27, -29, -30, -32; AN/GRR-7; AN/GRT-3; AN/MRC-12, -20, -22; AN/PRC-14, -17, -20; AN/TRC-32; AN/URC-4; AN/URR-9, -12, -13; AN/URT-10; MAR; MAY; R-278/GR; RDR; RDZ; SCR-616; TED.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: Dual operation is provided on a total of 1,750 channels with 100 kc separation in the frequency range 225.0 to 399.9 mc. Receivers also operate on any guard frequency between 238 to 248 mc.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, cw, mcw.

POWER OUTPUT: Transmitter: 100 w (each).
Receiver: 3 w (each) (maximum).

POWER REQUIREMENTS: 115 / 230 v, 50/60 cyc, 1 phase, ac commercial power or Power Unit (Hobert Bros. Mfg. #5JB) 4.5 kw (approximately).

PHYSICAL CHARACTERISTICS

Radio Set AN/GRC-32 installed in truck weighs 16,750 pounds net, volume 2,270 cu ft, 56.8 ship tons. Packed for domestic or export shipment: total weight 16,750 pounds, total volume 2,270 cu ft, 56.8 ship tons. Shipped in 2 packages.