

AN/PRC-90 Radio Set

Status: STD-A; NSN: 5820-00-782-5308

Reference: TM 11-5820-800-13&P
TB 43-0123

General Information

The AN/PRC-90 is a VHF-AM emergency locator transceiver used by aircrew members for communication with search and rescue ships, vehicles, or aircraft equipped with compatible radio equipment. It is included as part of each survival package and may be issued to individuals when so directed by the commander. The AN/PRC-90 provides modulated CW, beacon, or AM voice operation, using a self-contained microphone and speaker (or earphone) and a detachable half-wave, base-loaded whip antenna. The transceiver is battery operated. The battery has a maximum life of 14 hours in the beacon mode, and it cannot be recharged. Direct and general support maintenance of the AN/PRC-90 is not permitted. Repair and overhaul will be accomplished by the Air Force under a depot maintenance interservice support agreement. Current tactical speech security equipment is not compatible with the AN/PRC-90; therefore, secure voice is not a mode of operation.

Technical Characteristics

Frequency Range-----	Voice, 282.8 MHz; voice, MCW, and beacon, 243.0 MHz
Planning Range-----	Ground-to-air (approximately): voice, 111.1 km (69.0 mi); beacon and MCW, 148.2 km (92.1 mi); ADF locator range, 92.6 km (57.5 mi)
Number of Channels-----	2
Power Input-----	Nominal voltage, 12 V DC; operational voltage range, 10.0 V DC to 14.0 V DC
Power Source-----	Battery BA-1568/U, Mercury alkaline (Mallory)
Power Output-----	Beacon and MCW mode, 500 mw, PEP, minimum; voice mode, 400 mw, PEP, minimum
Tuning-----	Crystal controlled
Type of Service-----	Beacon and MCW, 20K0A2A; voice, 20K0A3E
Weight-----	623.7 g (22 oz)

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