

AN/TPX-44 Interrogator Set

Status: STD-B; NSN: 5895-00-944-1314

Reference: TM 11-5895-468-12

General Information

The AN/TPX-44 is designed for operation in conjunction with Radar Set AN/TPN-18 to aid in identification of aircraft. Both the AN/TPX-44 and AN/TPN-18 are part of Landing Control Centrals AN/TSQ-71 and AN/TSQ-72 that provide aircraft traffic control. When properly installed and operating, the AN/TPX-44 performs a ground station function of the aircraft traffic control system. It also functions as an IFF system. The AN/TPX-44 has a SIF which enables the landing control central operating personnel to select a specific aircraft or flight during interrogation. The predesignated reply codes from the airborne transponders of designated aircraft are amplified, detected, decoded, and applied to the PPI of the associated radar set and appear adjacent to the radar return signals in a mixed presentation. If no reply is seen from a properly challenged aircraft, the aircraft is reported as unidentified in accordance with local operations procedures.

Technical Characteristics

Frequency Range:

Transmit-----	990 to 1040 MHz, pretuned 1010 to 1030 MHz
Receive-----	1080 to 1130 MHz, pretuned 1090 to 1110 MHz
Planning Range-----	128.7 km (80 mi)
Power Input-----	120/208 V AC, 400 Hz 3-phase, 4-wire, 1.5 kw (approximately)
Power Source-----	Applicable shelter power source
Power Output-----	Peak output 1.5 kw minimum
Weight-----	137.7 kg (303 lb)

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