

AN/TPS-1G Radar Set

Status: STD-A; NSN: 5840-00-519-7609

Reference: TM 11-5840-222-15

General Information

The AN/TPS-1G is a high-power, transportable air-search radar set used for detecting aircraft and determining their azimuth and range. It is used with Air Defense Command and coordination facilities.

Major Components

1 Power Supply PP-674A/TPS-1D	1 Azimuth and Range Indicator
1 Antenna AS-673/TPS-1E	IP-141A/TPS-1D
1 Signal Comparator CM-36A/ TPS-1D	1 Receiver-Transmitter
1 Antenna Base AB-498/TPS-1G	RT-212A/TPS-1D
	1 Radar Modulator MD-144A/TPS-1D

Technical Characteristics

Range-----	220 km (137 mi), minimum range is 328 m (359 yd)
Type-----	Pulse modulated with moving target indicator
Target Indicator-----	PPI scope: 37, 74, 148, and 296 km (23, 46, 92, and 184 mi); A-scope: 37, 74, 148, and 296 km (23, 46, 92, and 184 mi) with an extended 16 km (10 mi) expanded sweep
Beam Data-----	Horizontal beam width, 3.5° to 4.0°; vertical beam width, 10° to 12°
Frequency-----	1220 to 1350 MHz
Peak Power-----	575 to 615 kw
Pulse Repetition Rate-----	360 to 400 PPS
Pulse Width-----	2.0 microseconds
Power Input-----	115 V AC, 400 Hz
Power Source-----	PU-107/U or PU-254/U
Weight-----	1,374 kg (3,023 lb)

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