

Section III. Airborne Weather and Altimeter Radar Sets

AN/APN-158 and AN/APN-158A Airborne Weather Radar Sets

Status: STD-A; NSN: 5841-00-082-3534 (AN/APN-158)
 STD-A; NSN: 5841-00-143-4116 (AN/APN-158A)

Reference: TM 11-5841-241-12
 TB 43-0123

General Information

The AN/APN-158 is a pulse modulated radar set used to locate weather fronts in terms of range and azimuth bearing in relation to the position of an aircraft. It is used to identify areas potentially dangerous to flight by enabling the pilot to avoid storms or turbulent areas. This system may also be used as a navigational aid.

Major Components

1 Antenna AS-1520()/APN-158	1 Receiver-Transmitter
1 Radar Set Control C-4881()/ APN-158	RT-711()/APN-158
1 Azimuth Range Indicator IP-724()/APN-158	1 Synchronizer SN-358()/ APN-158

Technical Characteristics

Frequency Range-----	9375 MHz \pm 40
Planning Ranges-----	116.6 km (72.5 mi)
Power Input-----	115 V AC, 400 Hz \pm 20; -27.5 V DC; 27.5 V DC; 250 V DC
Power Source-----	Aircraft power system
Weight-----	22.8 kg (50.5 lb)

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