



Figure 24. AN/APN-209(V)2 Radar Altimeter Set

1. Brief Description: The AN/APN-209(V) is an absolute (radar) altimeter which provides an accurate indication of the altitude of an aircraft over all types of terrain surfaces such as foliage, deep snow, water, and land. Range of the AN/APN-209(V) is 0-1500 feet. Warnings are provided when the aircraft is at, above or below certain fixed or pilot adjustable altitudes. For altitudes up to 250 feet, the accuracy of the AN/APN-209(V) is plus or minus 3 feet plus 3% of true altitude. Above 250 feet, accuracy is plus or minus 5% of true altitude. The AN/APN-209(V) operates within a frequency range of 4200 MHz to 4400 MHz and will provide reliable operation at all speeds up to 300 knots on the ground over any terrain. A self-test feature for inflight/preflight testing is incorporated as is a 10,000 hour elapsed time indicator. Input power requirement is 27.5 volts DC at 2 amperes maximum. Following are the various configurations of the AN/APN-209(V) system:

AN/APN-209(V)1 consists of:

AS-2595/APN-194(V) Antenna (2 ea)
RT-1115/APN-209(V) Receiver-Transmitter,
Height Indicator

AN/APN-209(V)2 consists of:

AS-2595/APN-194(V) Antenna (2 ea)
ID-1917/APN-209(V) Height Indicator
RT-1115/APN-209(V) Receiver-transmitter,
Height Indicator

AN/APN-209A(V)1 consists of:

AS-2595/APN-194(V) Antenna (2 ea)
RT-1115A/APN-209(V) Receiver Transmitter,
Height Indicator

AN/APN-209(V)2 consists of:

AS-2595/APN-194(V) Antenna (2 ea)
ID-1917/APN-209(V) Height Indicator
RT-1115A/APN-209(V) Receiver-Transmitter,
Height Indicator

AN/APN-209A(V)3 consists of:

AS-2595/APN-194(V) Antenna (2 ea)
ID-1917/APN-209(V) Height Indicator (2 ea)
RT-1115A/APN-209(V) Receiver-Transmitter

AN/APN-209B(V)1 consists of:
AS-2595/APN-194(V) Antenna (2 ea)
RT-1115B/APN-209 Receiver-Transmitter-
Height Indicator (Green
Lighted)

AN/APN-209B(V)2 consists of:
AS-2595/APN-194(V) Antenna (2 ea)
ID-1917A/APN-209(V) Height Indicator (Green
Lighted)
RT-1115B/APN-209(V) Receiver-Transmitter
Height Indicator (Green
Lighted)

AN/APN-209B(V)3 consists of:
AS-3586/APN-209A(V) Antenna (2 ea)
RT-1411/APN-209A(V) Receiver-Transmitter

AN/APN-209B(V)4 consists of:
AS-2595/APN-194(V) Antenna (2 ea)
RT-1411/APN-209A(V) Receiver-Transmitter

2. Applicable Tools and Test Equipment: See Appendix B for nomenclature, NSN, etc.

Type No.	O (AVUM)	F/H (AVIM)
AN/GSM-64B		X
AN/USM-281C		X
TK-100/G		X
TK-101/G	X	
TS-3941/APN-209(V)		X
794 FM		X
8491B-50		X

NOTE

The AN/APN-209()(V) is warranted by the manufacturer under a long term Reliability Improvement Warranty. During the warranty period, no repair is authorized at any echelon of maintenance and care should be taken not to break or tamper with the warranty seals. Upon verification of a failure at DS (or AVIM) level, all defective components should be returned to the manufacturer in accordance with instructions contained in applicable TM's, SB's, etc.

3. Applicable Publications:

- SB 11-642
- TM 11-5841-284-23 & P (Pertains to AN/APN-209(V))
- TM 11-5841-292-13 & P (Pertains to AN/APN-209A(V))