



Figure 35. Radio Transmitting Set AN/VRT-1, major components.

Status: Standard. Stock No.: 2C6729. Reference: TM 11-842.

Radio Transmitting Set AN/VRT-1 (Kaar type PTS-22X) is an a-m transmitting set designed and constructed for mobile use in motor vehicles.

The transmitter chassis is mounted on a special shock-mounted cradle. Transmitter operation is controlled through a remote-control unit which is installed in the driver's compartment. The transmitter uses an oscillator, multiplier, plate-modulated, power-amplifier circuit.

### TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 30 to 40 mc.  
 NUMBER OF CRYSTALS: 1 (operating).  
 PRESET FREQUENCIES: 1.  
 ANTENNA: Whip.  
 TYPE MODULATION: Amplitude.  
 FREQUENCY CONTROL: Crystal.  
 POWER SOURCE: 6-v vehicular battery. 38 amp on transmit. 0 amp on stand-by.  
 POWER OUTPUT: 22 w.  
 RANGE: Line of sight.  
 NUMBER OF TUBES: 5.

### GENERAL APPLICATION

USE: For transmission of a-m voice signals.  
 TO COMMUNICATE WITH: Radio Receiving Set AN/VRR-3 (Kaar type PRS-9X), Radio Receiver BC-787-B, Radio Set AN/GRR-2 (Hallierafters model SX-28-A), and Radio Receiver BC-794-B.  
 INSTALLATION: Installed and operated in vehicles.

TYPE OF SIGNAL: A-m, voice.

### PRINCIPAL COMPONENTS

Name	Dimensions (in.)	Weight (lb)
Transmitter PTS-22X with 1 set of tubes (including 1 type E crystal when specified)	9 <sup>3</sup> / <sub>8</sub> x 9 <sup>7</sup> / <sub>8</sub> x 18 <sup>5</sup> / <sub>8</sub>	31
Antenna and base mounting assembly	8 <sup>1</sup> / <sub>2</sub>	3
Control unit K-TRI	2 x 2 <sup>3</sup> / <sub>8</sub> x 4	1/2
Microphone 4-C with bracket		3/4
Coaxial cable, power cable, control cable, and kit of running spare parts		15 1/2

### WEIGHT AND VOLUME

	Unpacked	Domestic pack
Total weight (lb)	50 <sup>3</sup> / <sub>4</sub>	73
Total volume (cu ft)		3.7