



Figure 20. Amplifier Equipment AN/TRA-1 in use with Radio Transmitter T-14A/TRC-1.

Status: Standard. *Stock No.:* 2S5006-1. *Reference:* TM 11-2601.

Amplifier Equipment AN/TRA-1(*) represents Amplifier Equipment AN/TRA-1, -1A, -1B, and -1C. Amplifier Equipment AN/TRA-1(*) consists of Amplifier AM-8A/TRA-1, Power Supply PP-13A/TRA-1, and accessory components and spare parts for maintenance.

This equipment is used in conjunction with Radio Transmitter T-14A/TRC-1 to increase the power output of the transmitter to 250 watts. It is used where more power is required to maintain good communication under adverse conditions, such as unfavorable terrain or long spans between stations.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: Amplifier AM-8/TRA-1: 70 to 100 mc.

ANTENNA: Use 3-element directional array supplied with AN/TRC-1 (*), -3 (*), and -4 (*) equipments.

TYPE MODULATION: Will handle the four voice channels provided by the transmitter of the AN/TRC-1, -3, and -4 equipments.

POWER SOURCE: Power Unit PE-75, or 115-v, 60-cyc a-c commercial power.

POWER OUTPUT:

Amplifier AM-8/TRA-1: 250 w max.

Power Supply PP-13/TRA-1:

ac, 115 v, 50 to 60 cyc, 175 w.
bias, 100 v dc.

dc, +450 v, 40 ma; +1,900 v, 250 ma.

NUMBER OF TUBES:

Amplifier AM-8/TRA-1: 5.

Power Supply PP-13/TRA-1: 3.

GENERAL APPLICATION

USE: This equipment is used in conjunction with Radio

Transmitter T-14/TRC-1 to increase the power output of the transmitter to 250 w.

TO COMMUNICATE WITH: Radio Set AN/TRC-1 (*), Radio Terminal Set AN/TRC-3 (*), and Radio Relay Set AN/TRC-4 (*).

INSTALLATION: Transported in vehicle. Installed and operated on ground.

TYPE OF SIGNAL: Voice (f-m) as provided by Radio Transmitter T-14/TRC-1.

PRINCIPAL COMPONENTS

<i>Name</i>	<i>Dimensions (in.)</i>	<i>Weight (lb)</i>
Amplifier AM-8/TRA-1	10 $\frac{3}{4}$ x 13 $\frac{3}{4}$ x 19 $\frac{1}{8}$	48
Power Supply PP-13/TRA-1..	9 $\frac{3}{8}$ x 14 x 25.....	130
Case CY-15/TRA-1 (for amplifier)	17 $\frac{3}{4}$ x 16 x 22 $\frac{1}{2}$..	40
Case CY-16/TRA-1.		
Cord CG-107/U.		

WEIGHT AND VOLUME

	<i>Unpacked Export pack</i>	
Total weight (lb).....	430	547
Total volume (cu ft)		28.1