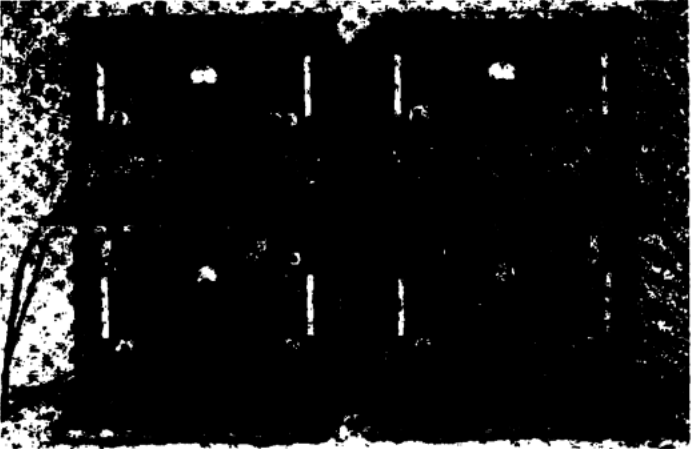


<b>AN/TRC-3</b>		NOMENCLATURE DESIGNATION		NOTE: SEE INDIVIDUAL SECTIONS FOR SECTION CLASSIFICATION.		STATUS:		INSTRUCTIONAL LITERATURE:													
<b>PART A - TECHNICAL CHARACTERISTICS</b> (CLASSIFICATION: <b>RESTRICTED</b> ) FREQUENCY RANGE: (Mc) 70-100 MEGA-CYCLES (300 CHANNELS)  NUMBER OF CRYSTALS: 96 1/2 (BANK OF 900 ON 300 FREQUENCIES PLUS 64 CRYSTALS ON 16 "BASIS" FREQUENCIES.)  PRESET FREQUENCIES: ONE.  ANTENNA: 3 ELEMENT HORIZONTAL ARRAY.  TUNING: (MO OR XTAL)XTAL(RECEIVER AND TRANSMITTER)  SENSITIVITY:                      SELECTIVITY:  POWER SOURCE: 115 VOLT AC, 60 CYCLE, SINGLE PHASE, (POWER UNIT PE-75) SIMILAR SETS: AN/TRC-1, AN/TRC-4 POWER OUTPUT: (WATTS) 50 TUBES: (TYPE AND NUMBER) <table border="0" style="display: inline-table; vertical-align: top;"> <tr><td>5-6AC7</td><td>3-6SN7BT</td></tr> <tr><td>2-6H6</td><td>5-6V6GT</td></tr> <tr><td>8-6SH7</td><td>1-6X5GT</td></tr> <tr><td>2-5R4GY</td><td>1-829</td></tr> <tr><td>3-6SL7GT</td><td></td></tr> </table>			5-6AC7	3-6SN7BT	2-6H6	5-6V6GT	8-6SH7	1-6X5GT	2-5R4GY	1-829	3-6SL7GT		<b>PART B - TACTICAL CHARACTERISTICS</b> (CLASSIFICATION: <b>RESTRICTED</b> ) USE: ARMY GROUND FORCES, ARMY SERVICE FORCES.  RANGE: 25-33 MILES, OR MORE ACCORDING TO TERRAIN AND USE OF AMPLIFIER EQUIPMENT AN/TRM-1.  TO COMMUNICATE WITH: AN/TRC-1, AN/TRC-4 AND F.M. LINK MODEL 1498, 1505.  TO REPLACE IN PART: NONE  TRANSPORTATION: VEHICULAR  TYPE OF SIGNAL: A-3 (FM)			CHANGE IN STATUS:		THE TWO RADIO RECEIVERS, R-19/TRC-1 AND TRANSMITTERS, T-14/TRC-1, IN CHESTS AS PICTURED BELOW, ARE PROPER COMPONENTS FOR RADIO SET AN/TRC-3, BUT THE CORDING SHOWN IS NOT THAT USED TO PERFORM THE FUNCTIONS OF AN/TRC-3. RADIO TERMINAL SET AN/TRC-3 IS USED WITH, AND CONNECTIONS ARE NORMALLY MADE TO, CARRIER TELEPHONE TERMINAL EQUIPMENT TC-21, AND/OR CARRIER TELEGRAPH TERMINAL EQUIPMENT TC-22 FOR MULTI-CHANNEL CARRIER COMMUNICATION SYSTEMS  			
5-6AC7	3-6SN7BT																				
2-6H6	5-6V6GT																				
8-6SH7	1-6X5GT																				
2-5R4GY	1-829																				
3-6SL7GT																					
<b>PART C - PRINCIPAL COMPONENTS</b> (CLASSIFICATION: <b>RESTRICTED</b> )																					
ITEM		DIMENSIONS			WEIGHT	CLASSIFICATION															
		HEIGHT	WIDTH	DEPTH																	
2 TRANSMITTER T-14/TRC-1						RESTRICTED															
2 RECEIVER R-19/TRC-1						RESTRICTED															
2 ANTENNA SYSTEM AS-19/TRC-1						RESTRICTED															
3 POWER UNIT PE-75						UNCLASSIFIED															
1 MAINTENANCE EQUIPMENT MK-5/TRC-3						RESTRICTED															
COMBINED WEIGHT OF COMPONENTS:																					
COMBINED VOLUME OF COMPONENTS:																					
SHIP TONNAGE:																					

RADIO SET AN/TRC-3 IS A 50 WATT, FM, RADIO RECEIVING AND TRANSMITTING TERMINAL STATION OF A RADIO RELAY MULTI OR SINGLE-CHANNEL COMMUNICATION SYSTEM WITH OR WITHOUT CARRIER EQUIPMENT TC-21 AND TC-22 (NOT A PART OF AN/TRC-3) TWO RADIO TERMINAL SETS, AN/TRC-3 CONSTITUTE THE MINIMUM REQUIREMENTS FOR A MULTI-CHANNEL COMMUNICATION SYSTEM. WHERE DISTANCE BETWEEN THE TWO IS TOO GREAT FOR SINGLE JUMP OPERATION, RADIO RELAY SETS AN/TRC-4 ARE PLACED AT INTERMEDIATE POINTS, AS REQUIRED. RADIO SETS AN/TRC-3 AND AN/TRC-4 ARE SUPPLIED WITH SUFFICIENT STANDBY EQUIPMENT TO ASSURE 24-HOUR CONTINUOUS OPERATION.