

AN/TSC-93 and AN/TSC-93A Satellite Communications Terminal

Status: STD-A; NSN: 5895-01-042-9860 (AN/TSC-93)
 STD-A; NSN: 5895-01-113-5344 (AN/TSC-93A)

Reference: TM 11-5820-878-14 (AN/TSC-93)
 Not Available (AN/TSC-93A)

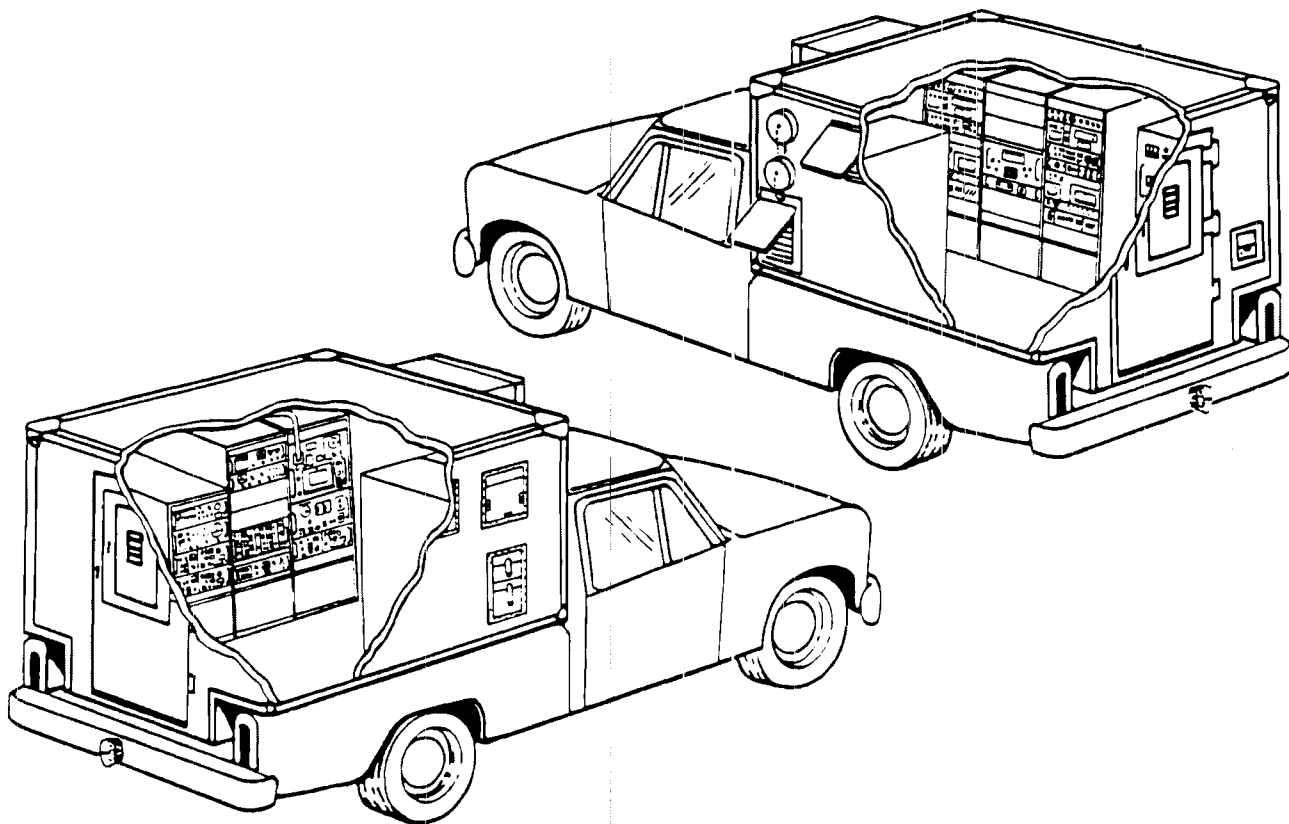
General Information

The terminals contain equipment to receive, transmit, and process medium and high capacity multiplexed voice, data, and teletypewriter circuits. Using encryption equipment, they will process secure and nonsecure traffic. The terminals are intended for point-to-point operation in tactical communications systems. They can simultaneously transmit and receive a single high data-rate carrier. The terminals include modulation and demodulation equipment and a specialized PCM signal processor. Digital interfaces are set up using external connections for an intercommunications set, field telephones, wideband 70 MHz, and CBR alarm. These terminals are used as a communications link (via satellite) with the AN/TSC-85(V)2, AN/TSC-85A, or another AN/TSC-93 or AN/TSC-93A.

Major Components

	-93	-93A
Receiver-Transmitter Orderwire RT-1287/TSC	1	1
Frequency Converter CV-3201/TSC	1	2
Digital Data Modem MD-945/TSC	1	1
Radio Frequency Amplifier AM-6701/TSC	1	1
Power Supply PP-7087	1	
Power Supply PP-7712(V)2/TSC		1
Frequency Converter CV-3189/TSC	1	1
Multiplexer/Demultiplexer (TSSP) TD-1147/TSC	1	
Multiplexer/Demultiplexer (TSSP) TD-1337(V)2/TSC		1
Multiplexer TD-754/G	1	
Multiplexer TD-660/G	2	2
High-Speed Data Buffer TD-1065/G	2	2
Echo Suppressor MX-9635A/TSC	2	2
Converter CV-1548/G	2	2
Security Device TSEC/KG-27 (not basic issue)	2	2
Multiplexer TD-1069/G (not basic issue)		1
Telephone Set TA-312/PT	1	1
Intercommunications Station LS-147F/FI	1	1
Antenna AS-3036A/TSC	1	1
Antenna Control C-10237/TSC		1
Antenna Control C-10348/TSC	1	
Shelter S-250	1	1

AN/TSC-93 Satellite Communications Terminal



Technical Characteristics

Frequency Range:

Receive-----7250 to 7750 MHz

Transmit-----7900 to 8400 MHz

Power Output-----500 W (nominal) at antenna

Single Channel Operation:

(Digital Voice)-----16/32 kb/s

Multichannel Operation:

AN/TSC-93-----6, 12, 24 channels

AN/TSC-93A-----6, 12, 24, 18-96 channels (48 kb/s per
channel at true multiplex data rate)

Power Requirements:

AN/TSC-93-----115 V AC $\pm 10\%$, 50/60 Hz $\pm 5\%$ single phase,
1380 W (nominal)

AN/TSC-93A-----115 V AC $\pm 10\%$, 50/60 Hz $\pm 5\%$ 3-phase,
5-wire, 5500 W (nominal)

Organic Power:

AN/TSC-93-----PU-619 (modified)

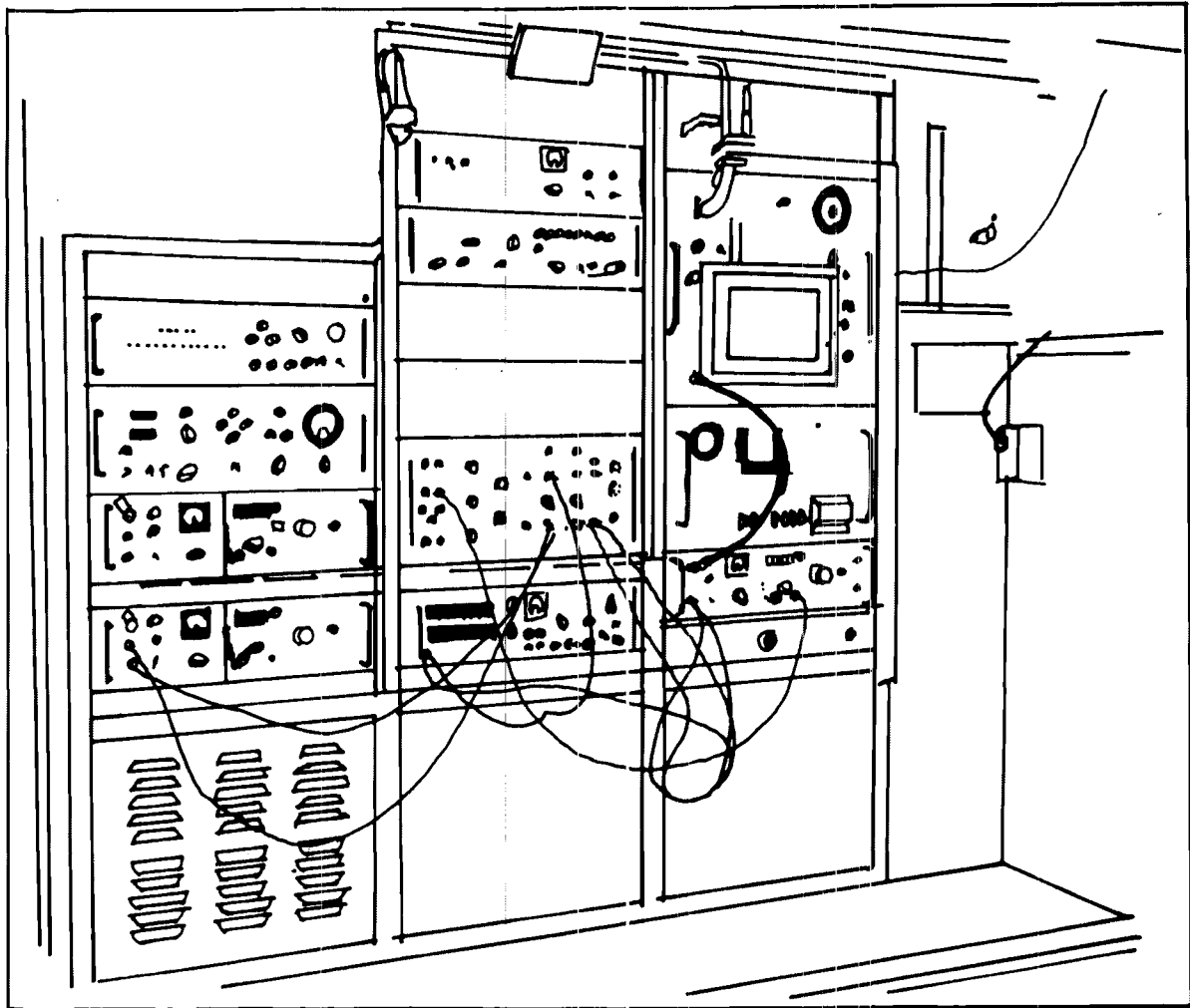
AN/TSC-93A-----PU-753 (two each)

Prime Mover:

AN/TSC-93-----1 1/4-ton truck

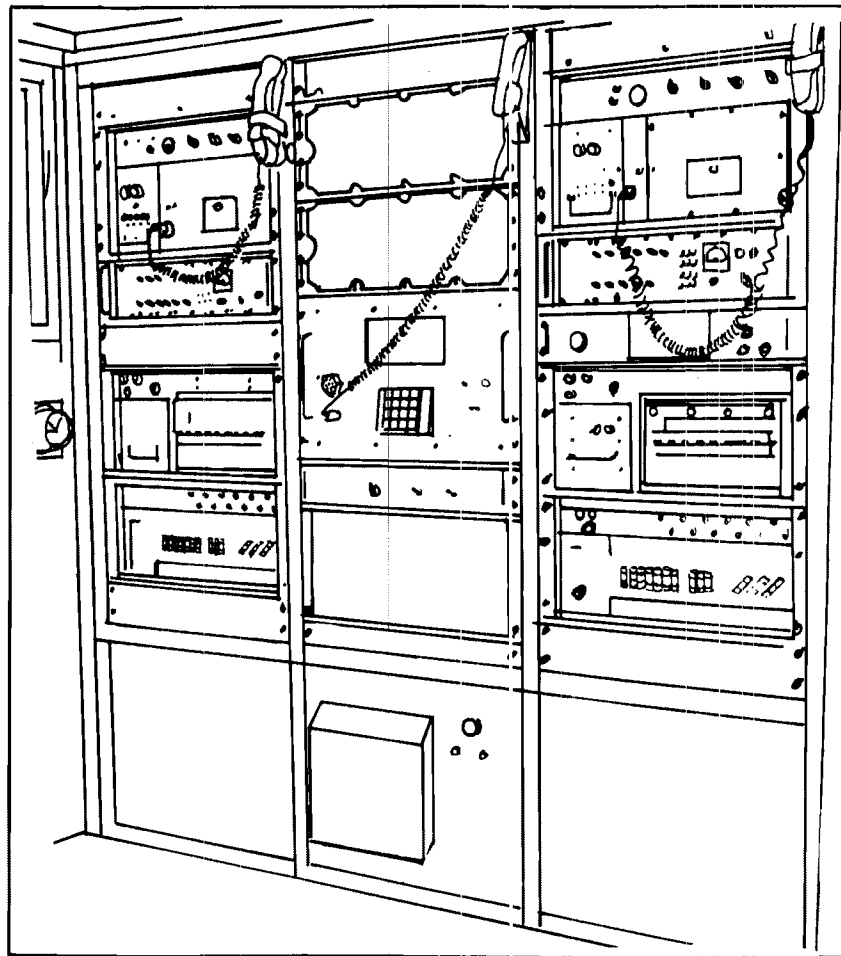
AN/TSC-93A-----2 1/2-ton truck (two each)

AN/TSC-93A Satellite Communications Terminal



ROADSIDE

AN/TSC-93A
Satellite Communications Terminal (continued)



CURBSIDE