

AN/TYC-39(V) Automatic Message Switch

Status: STD-B; NSN: 5805-01-123-1851

Reference: TM 11-5805-683-12-1

General Information

The switch provides secure, automatic message switching of narrative record and data traffic at major corps and theater Army nodes in conjunction with multichannel LOS, DAMA, TACSATCOM, and tropospheric scatter communications media. This sheltered, tactically mobile equipment will be collocated with the AN/TTC-39 circuit switch but will only operate in the stand-alone mode at the present time; however, the capability is being developed to provide interface with the AN/TTC-39 and to provide circuit switching on data traffic as required (1987 or later timeframe). The difference between the models is in their cryptographic equipment. The (V)3 uses only integral TRI-TAC COMSEC equipment. The other models can operate with TRI-TAC or inventory COMSEC equipment. The (V)3 is not in general field use because of the tactical need to interoperate with currently available (inventory) terminal equipment. The 400 Hz design of the (V)4 fits it for use in aircraft or at US Air Force installations. The 50-line switch consists of two shelters, the CIS and the MPS. The 25-line switch has both elements in a single shelter.

Technical Characteristics

The AN/TYC-39 will automatically accept, process, store, deliver, and account for narrative and data traffic through 50 lines, in ACP 127 and ACP 127 modified or JANAP 128 and JANAP 128 modified format only. Capabilities include processing multiple and collective addressed messages; mode, code, speed, and format conversions; handling six levels of precedence; message retrieval for retransmission; and message accountability and service functions. The AN/TYC-39 will provide COMSEC for trunking and subscribers. Its interfaces include currently fielded record traffic terminals, MRTT, MTCC, ULMS, Automatic Telephone Central Office AN/TTC-39, and DCS AUTODIN I. Serves R, U, and Y communities. Interface capabilities with data adapters and CNCE are being developed.

Power Requirement-----115/208 V AC, 3-phase, 50/60 Hz (400 Hz
(V)4 only)

Weight:

CIS-----3,086 kg (6,799 lb)

MPS-----3,172 kg (6,986 lb)

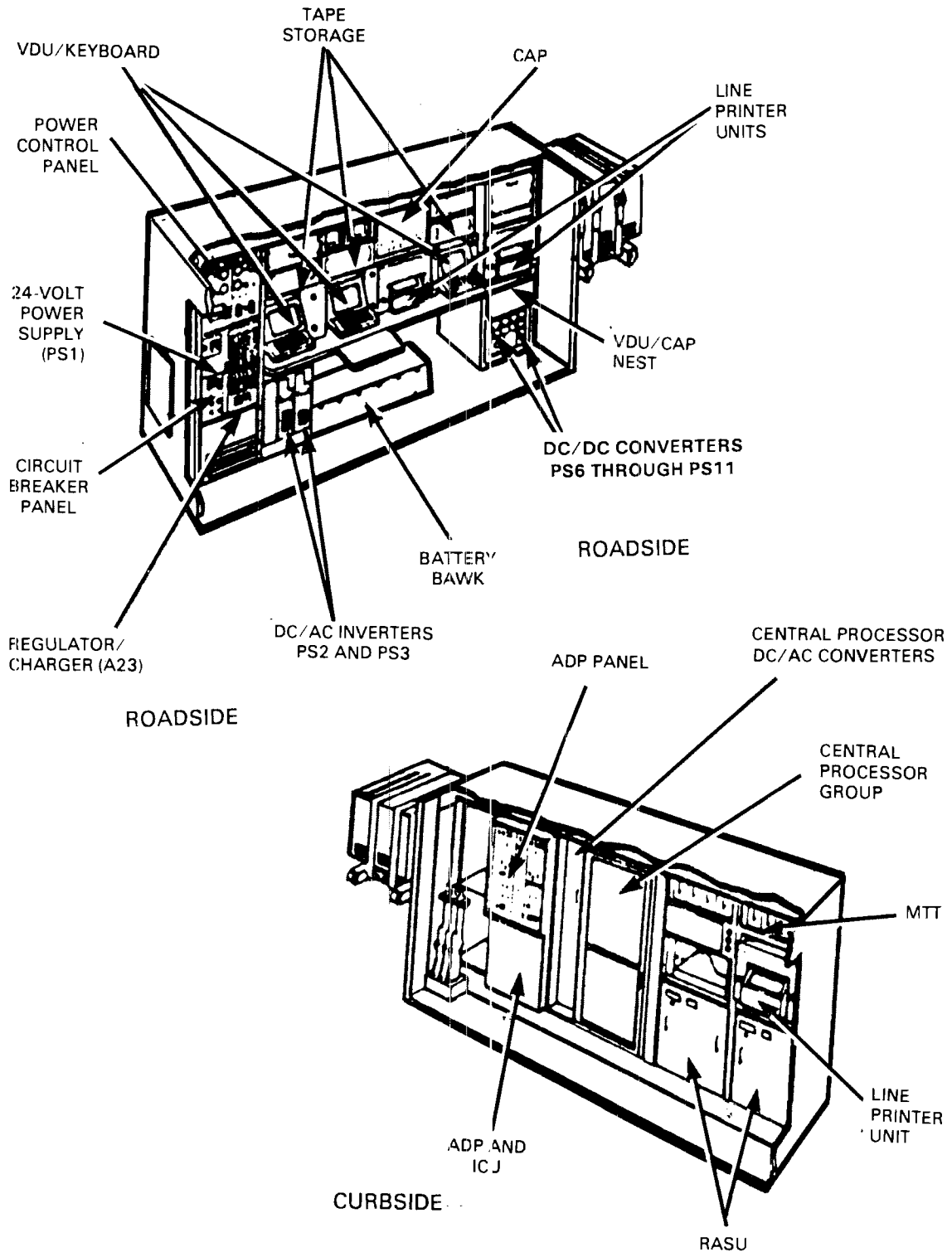
Vehicle Requirements:

CIS, MPS, OX-54-----Three 5-ton trucks

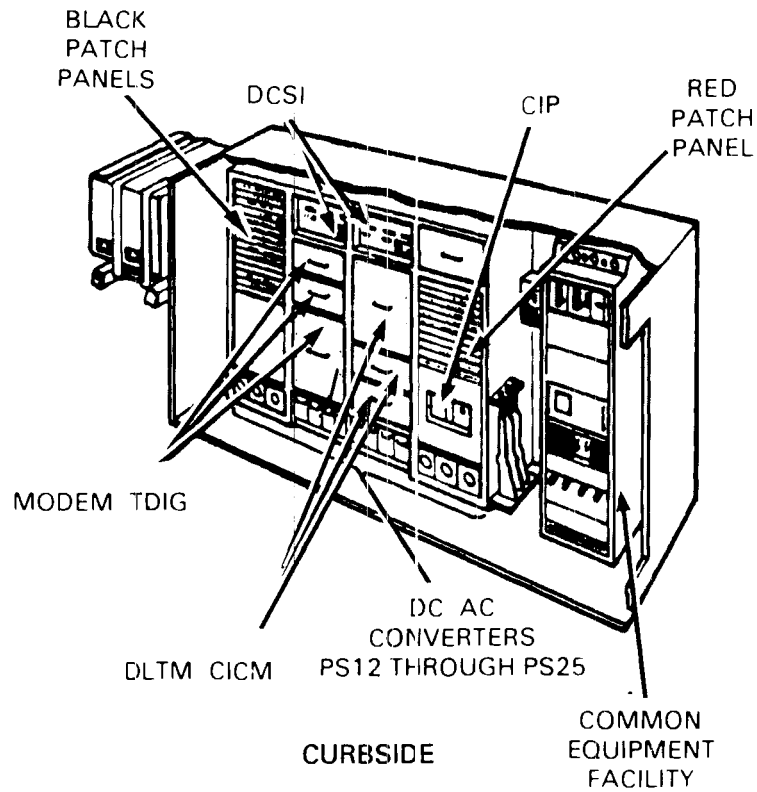
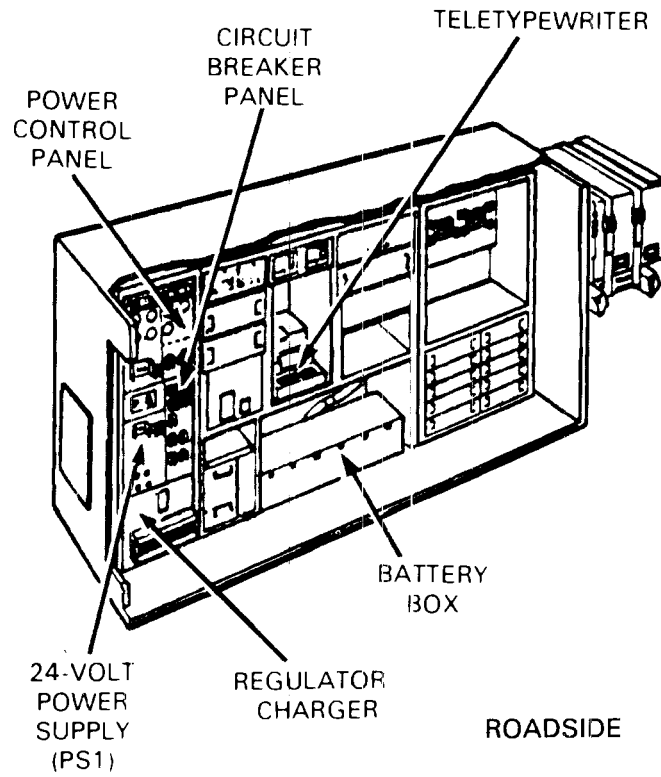
Storage and Maintenance Shelter----Two 2 1/2-ton trucks

NOTE: The AN/TYC-39(V)* will be fielded as part of the TRI-TAC system.

AN/TYC-39(V) Automatic Message Switch (Message Processing Shelter)



AN/TYC-39(V) Automatic Message Switch (Communications Interface Shelter)



AN/TYC-39(V) Automatic Message Switch (25-Line Single Shelter)

