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**OM-44(V)/GCC
MODEM GROUP, TELEPHONE**

**TECHNICAL MANUAL
DESCRIPTION OF EQUIPMENT, INSTALLATION,
OPERATING INSTRUCTIONS, PRINCIPLES
OF OPERATION**

WITH BAUD RATE CONTROLS

**PL-1337/GCC
PL-1338/GCC
PL-1339/GCC**

**VOLUME 1 OF 2
(CHAPTERS 1-4)**

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OM-44(V)/GCC

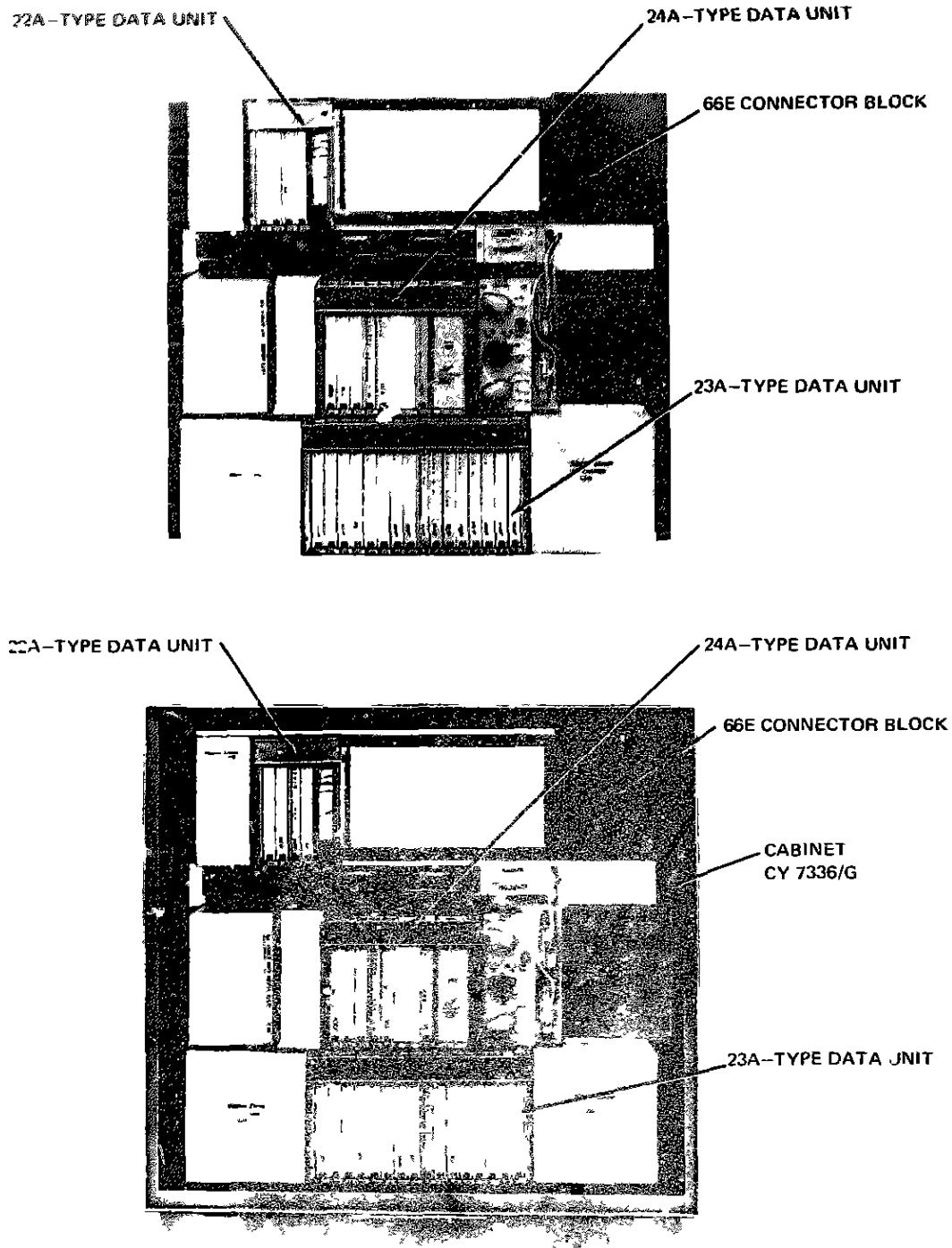


Figure 1-1 Telephone Modem Group OM-44(V)GCC, Front

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CHAPTER 1

DESCRIPTION OF EQUIPMENT

1-1 GENERAL DESCRIPTION - Telephone Modem Group OM-44(V)/GCC data Sets with speed options PL-1337/GCC, PL-1338/GCC, and PL-1339/GCC are designed to provide simultaneous transmission and reception of high-speed digital data over 4-wire private telephone lines at any one of three available bit rates. The coding OM-44(V)/GCC identifies the rack configuration and PL-1337/GCC, PL-1338/GCC, and PL-1339/GCC are the speed capabilities which are lists 4(2400, 4800, and 7200 bps), 5(3200, 6400, and 9600 bps), and 6(3600, 7200, and 10,800 bps), respectively. The cabinet for the above configuration is CY-7336/G. Table 1-1 lists the major units and contains a cross reference between Western Electric and Federal nomenclature. List 9 in the coding provides a military interface to the Telephone Modem Group.

1-2 PHYSICAL DESCRIPTION - A rack or cabinet version of the Telephone Modem Group OM-44(V)/GCC (see figure 1-1) is provided depending upon the manufacturer's designation list number. Lists 1A and 1D are rack mounted and list 1C is cabinet mounted. The Modem Telephone consists of the 22A-Type Data Unit which contains the basic transmitter circuits, the 23A-Type Data Unit which contains the basic receiver circuits, and the 24A-Type Data Unit which contains the external equipment and telephone line interface circuits, data set control circuits, remote test circuits, and power unit. A mounting plate is attached to the 22A-Type Data Unit for future addition of error control units. Mounting brackets are attached to the data units, and the units are assembled in the illustrated order by means of two mounting bars and designed to be mounted in a 23-inch rack. Data units 22A1, 23A1, and 24A1 are supplied with the list 1A data set, and data units 22A2, 23A2, and 24A2 are supplied with the list 1C and 1D data sets.

a. 22A-Type Data Unit - The 22A-Type Data Unit (see figure 1-2) contains four AR-type circuit packs mounted in a 5-slot mounting frame and a 4164-type plug-in network. This unit is furnished with an 8-inch cord and attached 25-pin connector for connection to the 24A-Type Data Unit. Networks 4164C, 4164D, and 4164E are supplied for speed options PL-1337/GCC, PL-1338/GCC, and PL-1339/GCC, respectively. Speed options PL-1337/GCC, PL-1338/GCC, and PL-1339/GCC will be referred to as L4, L5, and L6, respectively. Table 1-2 lists the 22A-Type Data Unit circuit pack codes, names, and slot locations. Unless otherwise specified, the listing applies to both data set list numbers. Data units 22A1 and 22A2 contain identical components.