46-TYPE DATA MOUNTINGS

IDENTIFICATION

1. GENERAL

1.01 This section provides the identification of the 46-type (46A-type, 46B1, and 46C-type) data mountings. These data mountings provide housing and interface connections for multiple arrangements of data auxiliary set (DAS) 829-type channel interface units (CIUs) and supplementary data units.

1.02 This section is reissued to add information on the 46A2 and 46C2 data mountings. Since this reissue is a general revision, arrows normally used to indicate changes have been omitted.

1.03 The 46-type data mountings are used to provide line termination for data service and the interconnection of supplementary data units for alternate voice, dial backup, and switched dial backup service on 4-wire private line voiceband data channels. Data and alternate voice service can be provided for 2-wire private line voiceband data channels.

1.04 The 46-type data mountings can be mounted on 19- or 23-inch relay racks.

2. DESCRIPTION

A. 46A-Type Data Mounting

2.01 The 46A-type (46A1 and 46A2) data mounting (Fig. 1) provides a housing for up to eight DAS 829-type CIUs. A 24-Vac transformer and nine fuses are integral parts of the data mounting. A 4-foot power cord (840339907) is supplied with the data mounting. The 46A1 and 46A2 data mountings are the same except the backplane.

2.02 The backplane of the 46A1 data mounting contains three 50-pin connectors. Connector P1 permits connection to up to eight modems, a 46B1 data mounting, or a 46C-type data mounting. Connector J9 permits connection to up to eight 4-wire metallic facilities. Connector J10 permits connection to up to eight manual loopback keys. The backplane of the 46A2 data mounting is the same as the backplane of the 46A1 data mounting except as follows: (1) connector J11 has been added to permit connection to the simplex pair of up to eight 4-wire metallic facilities, (2) two screw terminals have been added to permit connection to a -24 or -48 Vdc power source, and (3) two plug-in option straps have been added to permit operation from the internal 24-Vac transformer or from the external dc power source. Power cord connector P2 and terminal strip TS1 are located on the rear of the 46A-type data mounting adjacent to the backplane. Terminal strip TS1 provides access to the operating voltages from the internal transformer to the CIUs.

2.03 Connector P1 permits direct connection to a multiple data mounting, such as the 40B data mounting for data set 202T. For connections from connector P1 to individual modems, a separately ordered KS-21253-L1 adapter can be used. This adapter concentrates up to eight modems into one 50-pin connector. The adapter can be installed on the 46A-type data mounting by using a separately ordered 194A backboard.

2.04 The 46A-type data mounting is 7 inches high, 19 inches wide, and 13-1/4 inches deep. The data mounting weighs 20 pounds.

B. 46B1 Data Mounting

2.05 The 46B1 data mounting (Fig. 2) provides a housing for up to eight 48A1 (alternate voice) or 48G1 (2-wire to 4-wire conversion) data units. A 24-Vac transformer, a bridge rectifier power supply, and nine fuses are integral parts of the data mounting. A 4-foot power cord (840339907) is supplied with the data mounting.

2.06 The backplane of the 46B1 data mounting contains three 50-pin connectors and a plug-in

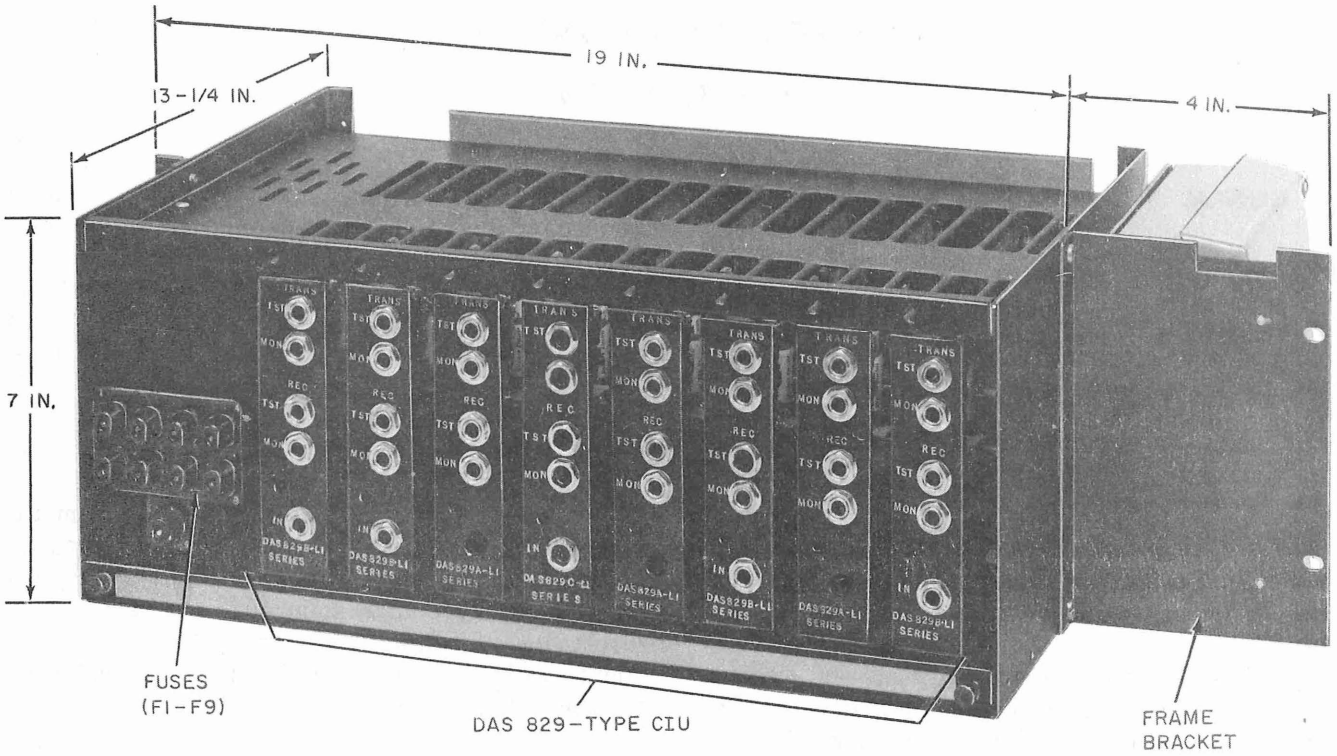

Fig. 1—46A-Type Data Mounting

option strap. Connector P1 permits connection to up to eight modems. Direct connection can be made to a multiple data mounting, such as the 40B data mounting for data set 202T or the 46C-type data mounting for 4-wire switched dial backup service. Direct connection can also be made to a second 46B1 data mounting for 2-wire alternate voice service. For connections from connector P1 to individual modems, a separately ordered KS-21253-L1 adapter can be used. Connector J9 permits connection to a 46A-type data mounting. Connector J10 permits connection to a 10-button key telephone set (830- or 2830-type), a 48D1 data unit, or a locally engineered key system. Power cord connector P2 and terminal strip TS1 are located on the rear of the data mounting adjacent to the backplane. Terminal strip TS1 provides access to the operating voltages from the internal transformer to the 48A1 or 48G1 data units.

2.07 The ringing supply option uses a plug-in strap to select an internal ringing supply (plug-in strap in INT position) or an external ringing supply (plug-in strap in EXT position). When the 46B1 data mounting is used with an 830- or 2830-type key telephone set, the plug-in strap must be in the INT position. When the 46B1 data mounting is used with a 48D1 data unit or a locally engineered key system, the plug-in strap must be in the EXT position.

2.08 The 46B1 data mounting is 7 inches high, 19 inches wide, and 13-1/4 inches deep. The data mounting weighs 20 pounds.

C. 46C-Type Data Mounting

2.09 The 46C1 data mounting (Fig. 3) provides a housing for one or two 48B1 (dial backup) data units and up to six 48C1 (switched dial backup) data units. The 46C2 data mounting (Fig. 4) provides a housing for one or two 48ER1 data units (dial backup) and up to six 48C1 (switched dial backup) data units. Part of the control logic required for switched dial backup service is an integral part of the data mounting. The 46C1 and 46C2 data mountings are the same except a protective cover has been added at the front of the 46C2 data mounting.

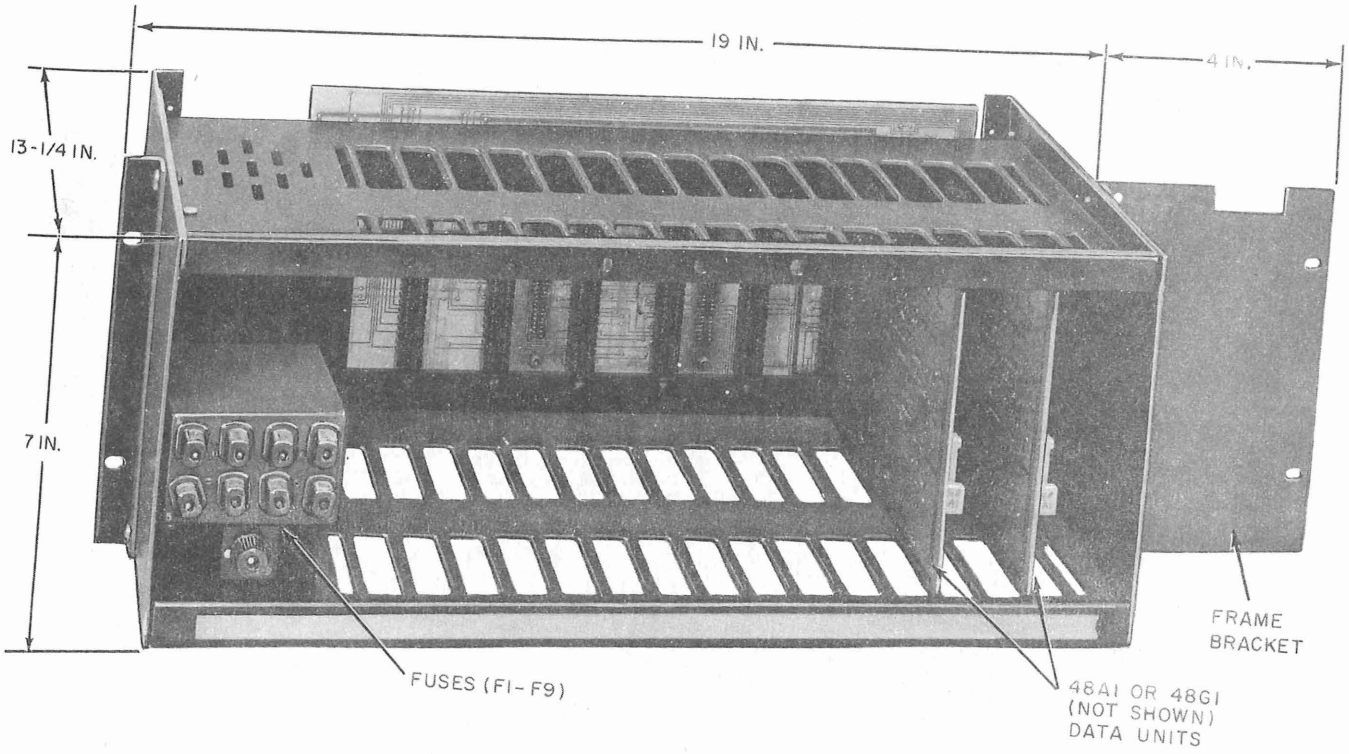

Fig. 2—46B1 Data Mounting

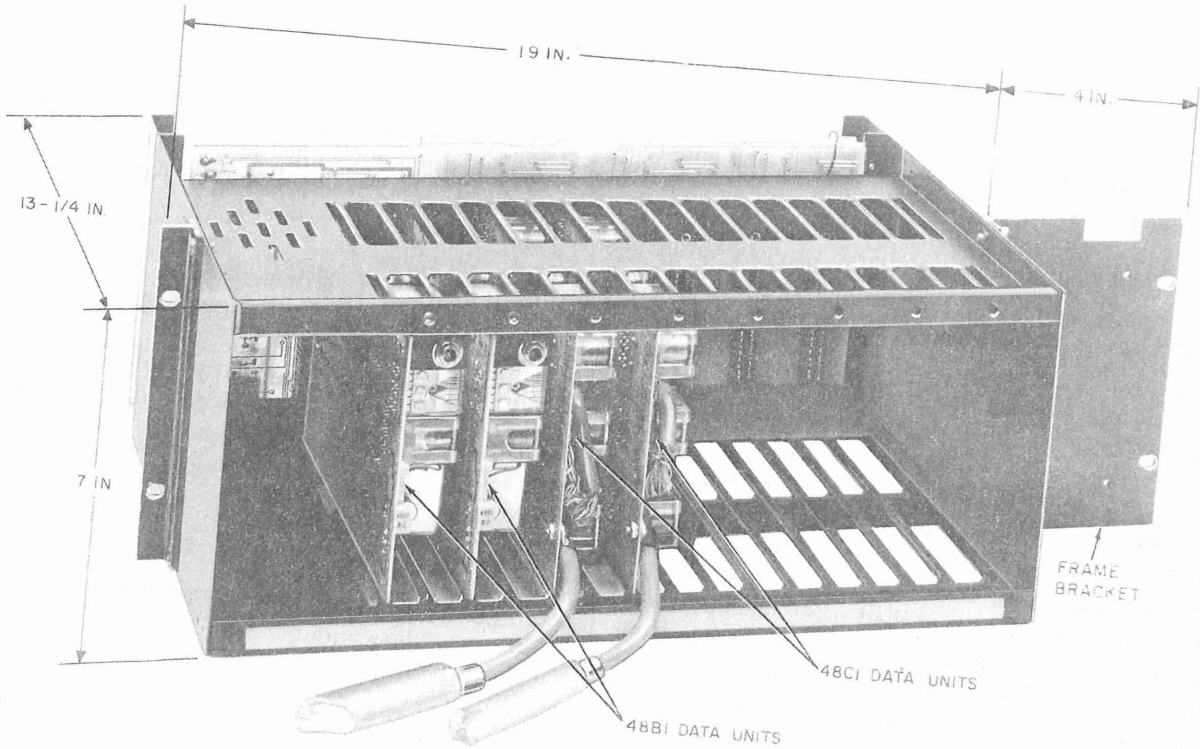

Fig. 3—46C1 Data Mounting

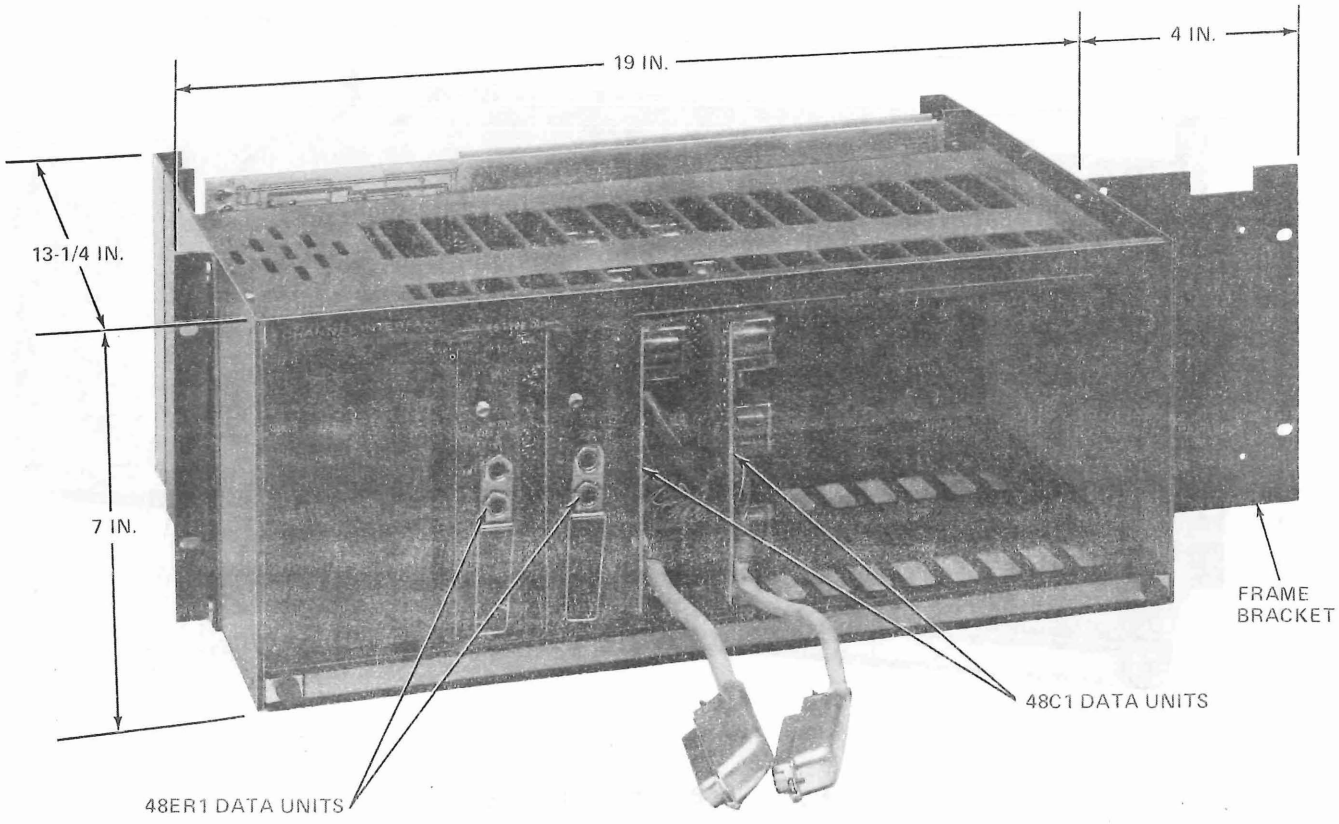

Fig. 4—46C2 Data Mounting

Note: The 46C-type data mounting must be used with the 48D1 data unit.

2.10 The backplane of the 46C-type data mounting contains eight 50-pin connectors, eight screw terminals, and two relays. Connector P1 permits connection to a 48D1 data unit. Connectors P2 through P4 permit connection to a maximum of twenty-three modems. Direct connection can be made from each connector to a multiple data mounting, such as the 40B data mounting for data set 202T. For connections from connectors P2 through P4 to individual modems, separately ordered KS-21253-L1 adapters can be used. To provide data with 4-wire switched dial backup service, connectors J10 through J12 permit connection to up to three 46A-type data mountings containing a maximum of twenty-three DAS 829-type CIUs. To provide data with alternate voice and 4-wire switched dial backup service, connectors J10 through J12 permit connection to up to three 46B1 data mountings containing a maximum of twenty-three 48A1 data units. Connector J1 or the eight screw terminals permit connection to one or two 4-wire dial backup channels consisting of two 2-wire switched network lines per channel. The two relays provide part of the control for the two backup channels.

Note: Use of connector J1 is not permitted in registered arrangements.

2.11 The 46C-type data mounting is 7 inches high, 19 inches wide, and 13-1/4 inches deep. The data mounting weighs 19 pounds.

3. REFERENCES

3.01 Additional information concerning the 46-type data mounting is contained in the following publications:

SECTION	TITLE
598-082-100	Data Auxiliary Set 829-Type—Channel Interface Units—Voiceband Private Line Channels—Description

SECTION	TITLE
598-082-200	Data Auxiliary Set 829-Type—Channel Interface Units—Voiceband Private Line Channels—Installation and Connections
598-082-500	Data Auxiliary Set 829-Type—Channel Interface Units—Voiceband Private Line Channels—Test Procedures

3.02 Detailed information concerning the 46-type data mounting is contained in CD- and SD-10247-01.