

49A1 DATA MOUNTING IDENTIFICATION

1. GENERAL

1.01 This section provides information for the identification of the 49A1 data mounting.

1.02 This section is reissued to add information concerning the power board (Comcode 842537987) and the power buss connector cable (Comcode 842537995). Information is also added concerning the single circuit off-net extension package. Revision arrows are used to emphasize the more significant changes.

1.03 The 49A1 data mounting (Fig. 1 and 2) provides a slotted nest mounting arrangement for up to ten 831A-L1 data auxiliary sets (DASs). This equipment is used in the Digital Data System (DDS) Serving Test Center (STC) hub office in providing off-net extension service. ♦The 49A1 data mounting houses only eight 831A data auxiliary sets when DATAPHONE® II data sets (2024A, 2048A, and 2096A) are in the circuit.

1.04 The substrate off-net extension consists of an analog link via a 4-wire private line circuit from the customer premises to a DDS STC hub office using data set 201C, 208A, or 209A, all of which are Mfr Disc. The DAS 831A serves as a buffer between the data set and the 500A data service unit (DSU) (Mfr Disc) at the input of the DDS network. The 500A DSU must be ordered on a "as required" basis and is obtained through common stock inventory.

1.05 The substrate off-net extension is primarily for customers located outside of a DDS digital serving area (DSA). The substrate off-net extension bay contains up to ten substrate off-net extension circuits, each of which contains a substrate DSU, 831A, 829-type data auxiliary set, and an analog data set. The single circuit off-net extension provides single off-net extension circuits in a manner identical to the substrate off-net extension bay and houses the same apparatus units as the substrate off-net extension bay but on a single circuit basis. Functionally, the

substrate off-net extension bay and the single circuit off-net extension package are identical. The single circuit off-net extension package is described in Section 314-919-100 and the test procedures are given in Section 314-919-500.♦

2. DESCRIPTION

2.01 The 49A1 data mounting consists of a 23-inch rack equipped with mounting brackets, a printed wire backplane, and permanently attached interface connectors. Physical dimensions are 6.9 inches high, 22.9 inches wide, and 11.8 inches deep. The 49A1 data mounting weighs 11.5 pounds when it is empty.

2.02 Ten 25-pin connectors located on the rear of the backplane provide means for connection to the TELE connector of the hub office data sets. The connection is made with an M25A cord. A single 50-pin connector, also on the rear of the backplane, permits connection to the 46D1 data mounting for interconnection to the analog channel.

2.03 Early production versions of the 49A1 data mounting (series 1) are equipped with ten pairs of TEL LINE jacks that appear on the front of the data mounting. On later production versions of the 49A1 data mounting (series 2, or higher), the ten pairs of TEL LINE jacks have been replaced with a blank panel.

2.04 ♦The power board and the power buss connector cable make it possible to use the DATAPHONE II data sets in substrate off-net extension arrangements for DDS. The power board consists of two power supply modules, one supplying ± 12 volts at up to 300 milliamperes, and the other supplying +5 volts at up to 1 amp. The power board comes equipped with a three conductor, 10-foot power cord which extends from the rear of the power board for connection to 117-volt ac power. The three dc voltages are connected to the gold contacts at the rear edge of the power board. The power board has a total of 20

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gold contacts, is single sided, measures 9.66 inches long by 5.5 inches wide, and weighs approximately 3.5 pounds. The board is designed to be inserted in slot 1 of the 49A1 data mounting used to house 831 data auxiliary sets. Slots 3 through 10 may be used to mount the 831A data auxiliary sets.

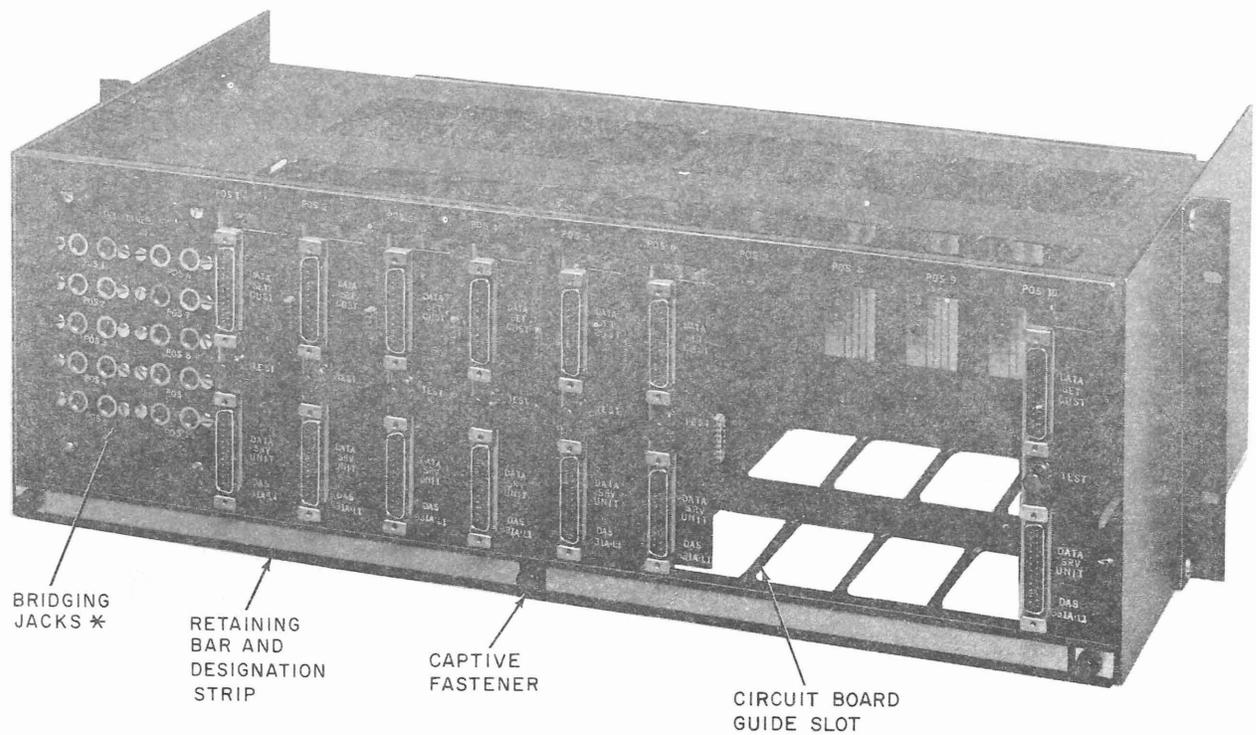
2.05 The power buss connector cable is a ribbon cable with ten 25-pin male connectors attached. Each of these connectors plug into one of the ten J1 connectors on the backplane of the 49A1 data mounting. The power buss connector cable distributes dc voltages from slot 1 of the data mounting to each of the other 9 slots on the rear of the data mounting to power the 831-type data auxiliary sets when used with DATAPHONE II extension service for DDS. The power board and the power buss connector cable eliminate the need for the connection between the data set and the telephone channel to pass through the 49A1 data mounting. The power board supplies the power to the DAS 831A and the power buss connector cable distributes the power.♦

3. REFERENCES

3.01 For additional information relating to the DDS off-net extensions (substrate off-net ex-

tension bay and single circuit off-net extension package) and the 49A1 data mounting, refer to the following documents:

SECTION	TITLE
314-919-100	Subrate Off-Net Extension Arrangements, Description, Digital Data System
314-919-180	Data Auxiliary Set 831A-Type, Summarizing Specification, Data Systems
314-919-200	Subrate Off-Net Extension Arrangements, Installation and Connections, Digital Data System
314-919-300	Digital Data System, Subrate Off-Net Extension Arrangement, Maintenance
314-919-500	Subrate Off-Net Extension Arrangement, Test Procedures, Digital Data System



* THE BRIDGING JACKS ARE PRESENT ON THE 49A1 DATA MOUNTING, SERIES 1 ONLY; THE JACKS ARE REPLACED BY A BLANK PANEL ON 49A1 DATA MOUNTINGS, SERIES 2 OR HIGHER.

Fig. 1—49A1 Data Mounting—Front View

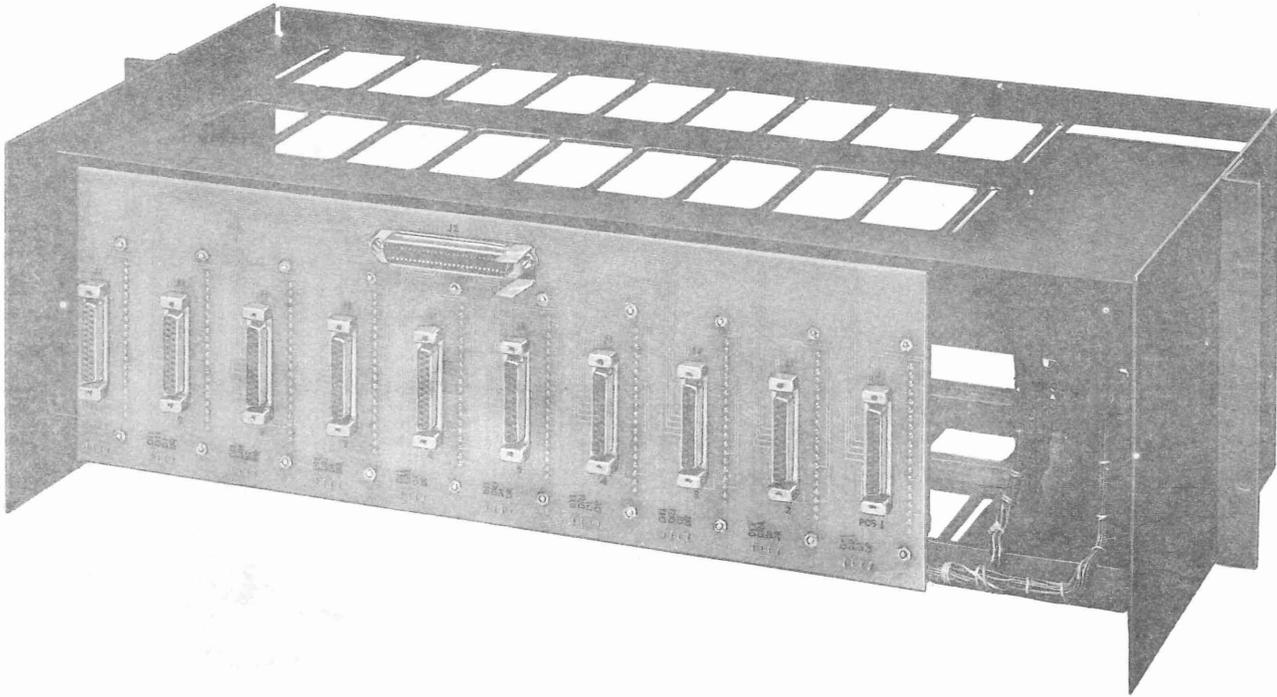


Fig. 2—49A1 Data Mounting—Rear View