

DATA AUXILIARY SET 820D-TYPE IDENTIFICATION

1. GENERAL

1.01 This section provides the information required to identify Data Auxiliary Set 820D-type and to describe its use.

1.02 This section is reissued for the following reasons.

(a) To include reference to DAS 820D-L1 and DAS 820D-L1A which replace DAS 820D1 and DAS 820D2, respectively. DAS 820D1 and DAS 820D2 have been rated manufacture discontinued (MD).

(b) To add Fig. 3 of DAS 820D-L1A.

1.03 Data Auxiliary Set 820D-type is designed for use as a single station set in private line service to provide the housing and power supply for Data Sets 108A-, 108C-, 108D-, 109A-, 109D-, or 109E-types. Depending on the interface circuit pack (CP) used, the Data Auxiliary Set 820D-type also provides suitable circuitry for interfacing with model 33 or 35 current interface teletypewriters or data terminals having interfaces which conform to the Electronics Industries Association (EIA) specification RS-232-B.

1.04 The data sets and interface CPs are not furnished with the DAS 820D-L1 or L1A. Therefore, the required data set (108A-, 108C-, 108D-, 109A-, 109D-, or 109E-type) and required interface CP (AR17, AR430, etc) must be ordered separately.

2. DESCRIPTION

2.01 Data Auxiliary Set 820D1 (Fig. 1) consists of a 2-tone gray plastic housing which is 11 inches wide, 11 inches long, and 5-1/2 inches high and contains an 18A power unit and a 61A apparatus mounting with a circuit pack (CP) AR17 (earlier models of Data Auxiliary Sets 820D-type had AR16). A TEST key and lamp are provided for loop-back testing. Connection to the terminal equipment is

made with a 25-pin connector J3. Terminal strip (TS) A provides for connection to the telephone line and for remoting the TEST key and lamp, if desired. Data Auxiliary Set 820D1 is intended for use with a customer-provided terminal and is provided with a KS-14532-L16 power cord.

2.02 Data Auxiliary Set 820D2 is identical to the 820D1 with the exception that the 820D2 is not supplied with a plastic housing or power cord. An M3AY cord equipped with a 7593 Hubbell connector should be ordered separately when the 820D2 is to be used in conjunction with a Bell System Teletypewriter. Data Auxiliary Set 820D2 should not be used in conjunction with a customer-provided terminal.

2.03 Data Auxiliary Set 820D1 or D2 provides the standard bipolar voltage interface that conforms to the EIA Standard RS-232-B. There is also a neutral current interface option which may be used for connection to Bell System Teletypewriters operating at 150 bauds or less or to any customer-provided terminal operating at 75 bauds or less. The terminal must provide a 680-ohm **resistive** impedance in the receiver for 20 mA operation and a contact closure in the transmitter, both isolated from ground. Current for the send and receive circuits is furnished by Data Auxiliary Set 820D1 or D2.

2.04 DAS 820D-L1 and DAS 820D-L1A (Fig. 3) are identical to DAS 820D1 and DAS 820D2, respectively, with the following exceptions.

(a) The 6-screw terminal strip (TS A) is replaced by a 26-screw terminal board (TB 1).

(b) Wiring is added between the card connectors to allow the use of circuit pack (CP) cards other than CP AR16 and AR17 (ie, CP AR430).

Note: The DAS 820D-L1 and 820D-L1A are not compatible with the AR16 CP.

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(c) Wiring is added which allows operation of the test relay and TEST lamp when the TEST key is operated at installations utilizing half-duplex data sets such as the Data Set 109A. This causes continuous space to be transmitted by the station placed in the test mode.

(d) The DAS 820D-L1A is provided with an M3AY power cord which is equipped with spade tips on one end and a Hubbell 7593 connector on the other.

2.05 Detailed information for the DAS 820D-type when used with Data Sets 108A-, 108C-, or 109A-type is covered in the following Bell System Practices (BSP):

SECTION	TITLE
591-023-ZZ1	Data Sets 108A- and 108C-Type Single Private Line Station—Using Data Auxiliary Set 820D-Type
591-023-Z10	Data Set 108-Type Single Private Line Station—Using Data Auxiliary Set 820D-Type—In the 10A Data Line Concentrator System (DATREX*)
591-024-ZZ1	Data Set 109A-Type Single Private Line Station—Using Data Auxiliary Set 820D-Type

2.06 The use of Data Sets 108D-, 109D-, or 109E-type with the DAS 820D-type must be locally engineered. Information pertaining to these arrangements is not contained in any BSP. However, information related to the individual data sets (operation, options, etc) may be found in the following sections.

SECTION	TITLE
591-028-100	Data Set 108D-Type—Description
591-029-100	Data Set 109D-Type—Description
591-036-100	Data Set 109E-Type—Description

2.07 The following schematic drawing and circuit description include information pertaining to DAS 820D-type:

SD- & CD-3D031-01 Data Auxiliary Sets 820D- and 820E-Types

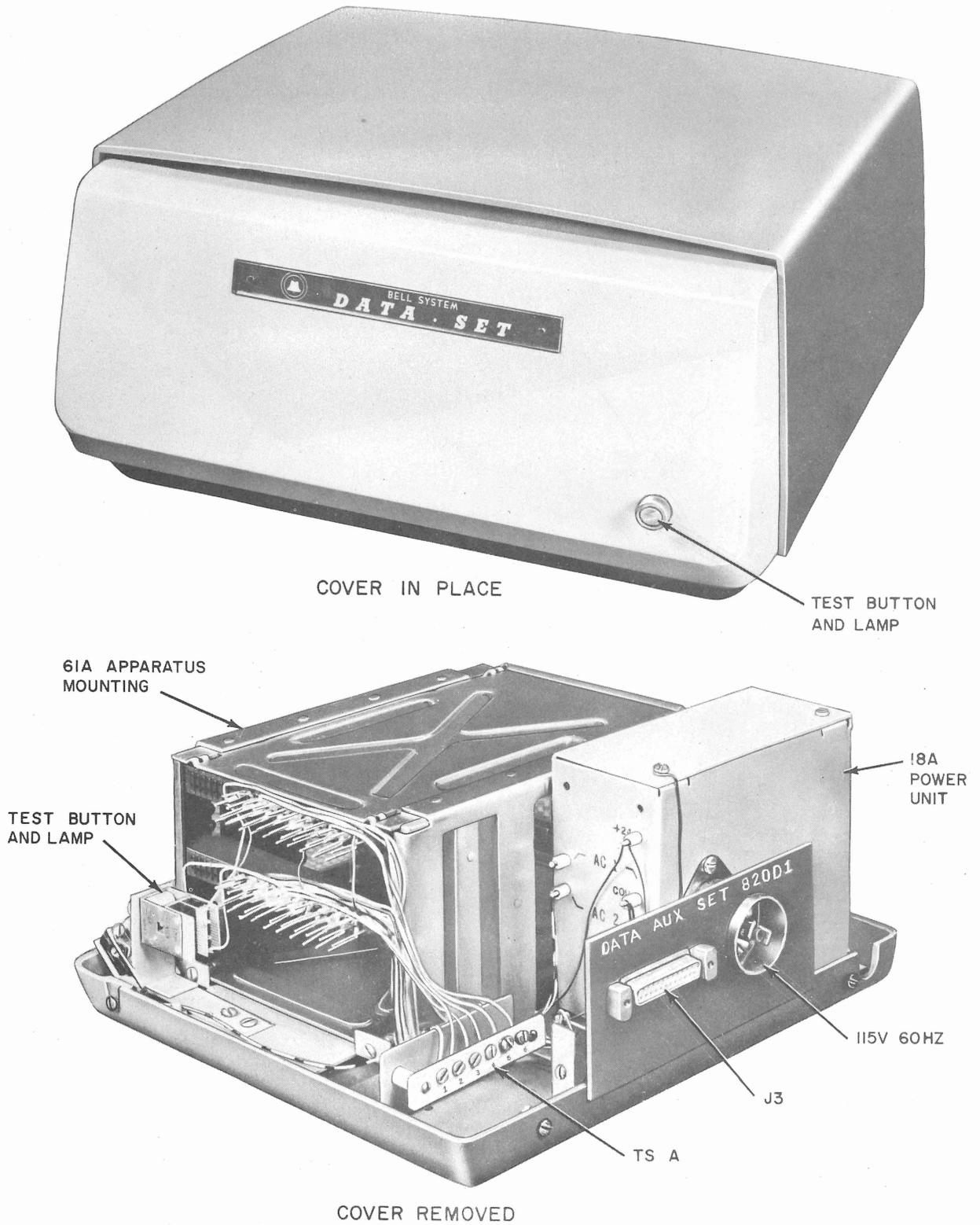


Fig. 1—Data Auxiliary Set 820D1

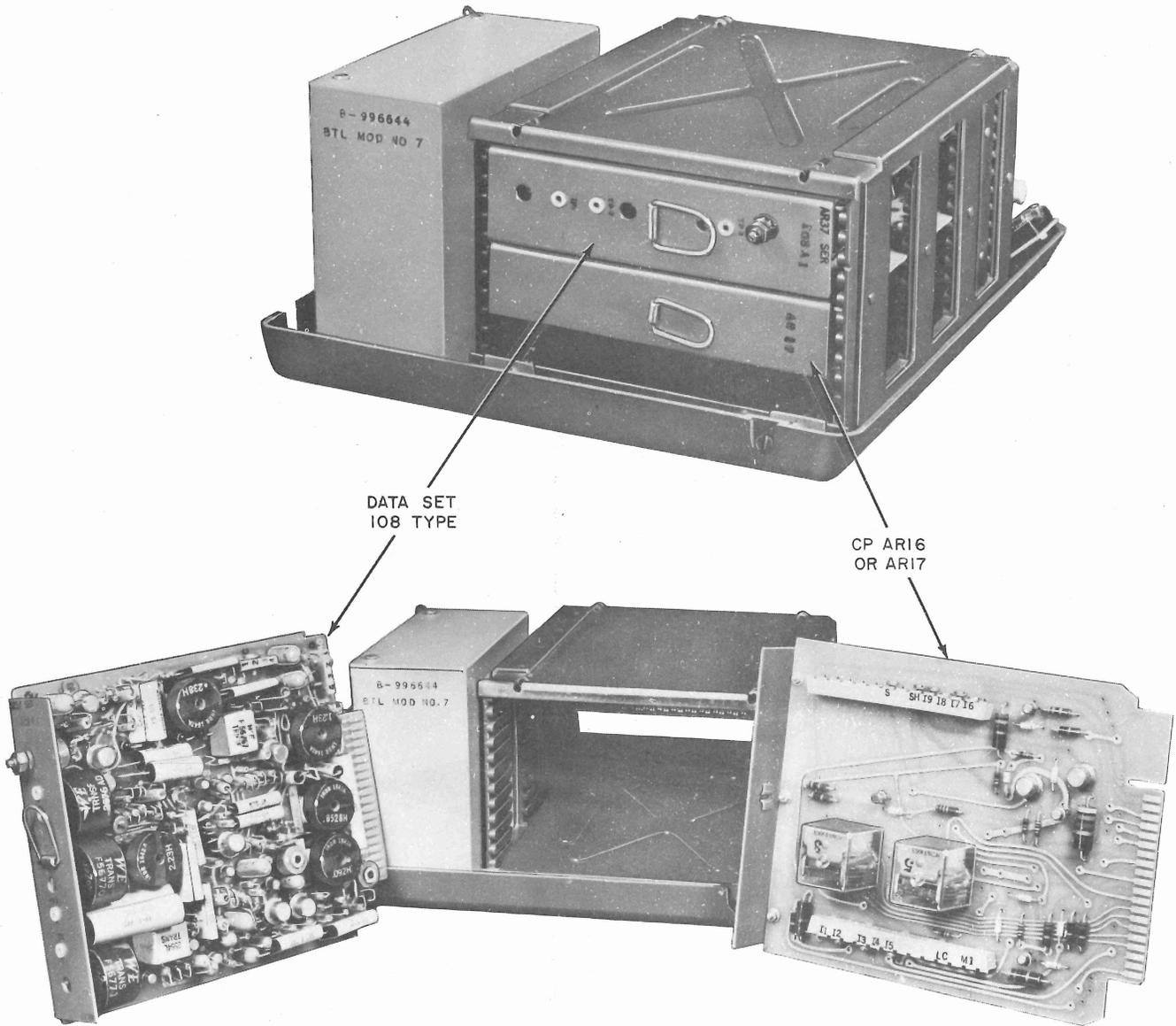


Fig. 2—Data Set 108-Type and Data Auxiliary Set 820D-Type

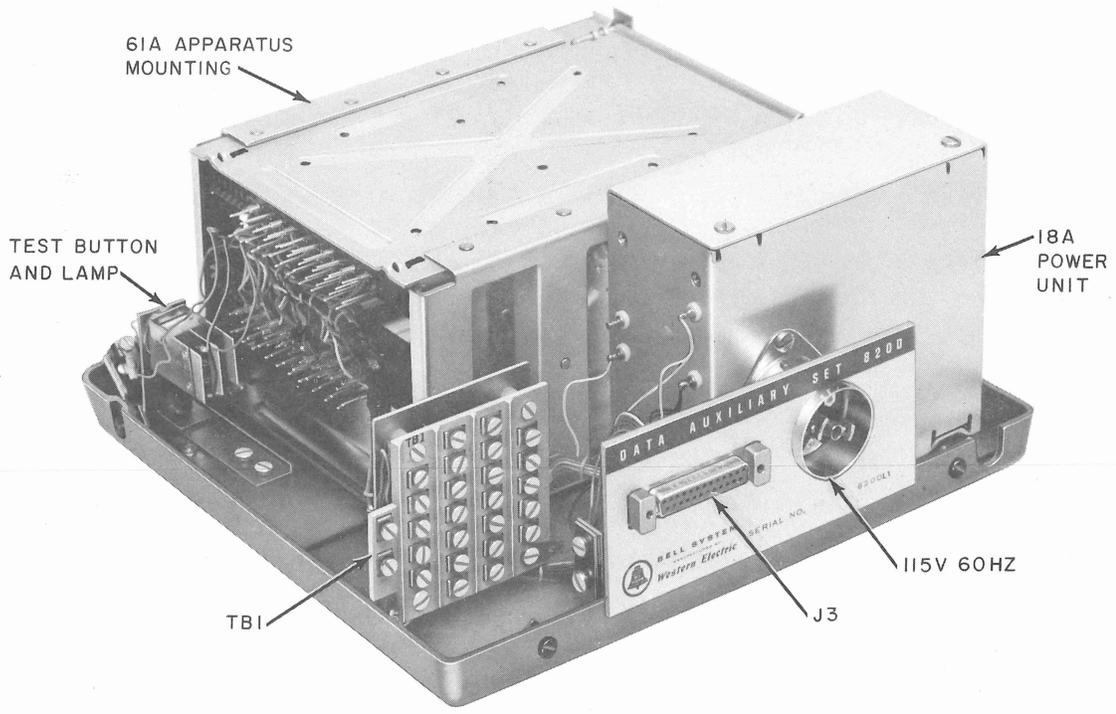


Fig. 3—Data Auxiliary Set 820D-L1A