

## 14A2 DATA UNIT IDENTIFICATION

### 1. GENERAL

**1.01** This section contains a description of the 14A2 Data Unit and information pertinent to its operation. Information concerning equipment associated with the data unit is not included.

**1.02** This section is reissued because the 14A2 Data Unit has been rated Addition and Maintenance (A&M).

**1.03** The data unit is combined with other circuitry to make up the Data Auxiliary Set (DAS) 806B5 which has also been rated Addition and Maintenance. The DAS 806B5 is an integral part of a wideband data station using Data Set (DS) 301B-type.

**1.04** The 14A2 Data Unit (Fig. 1) when used in DAS 806B5 provides:

- A new customer interface
- The relay and associated circuitry required to permit remote testing of the associated DS 301B-type
- Means for simplexing line-sealing current at the data station.

### 2. DESCRIPTION

**2.01** The data unit has the approximate external dimensions of 8.3 inches deep, 2.0 inches wide, and 5.5 inches high.

**2.02** The 14A2 Data Unit derives its operating power,  $\pm 18$  volts, from DAS 806B5.

**2.03** The signals interchanged at the customer's interface are:

| SIGNAL | MEANING                        |
|--------|--------------------------------|
| SD     | Send Data                      |
| RD     | Receive Data                   |
| SR*    | Send Request                   |
| CS     | Clear to Send                  |
| DSR    | Data Set Ready                 |
| LT     | Local Test                     |
| DTR    | Data Terminal Ready            |
| RI     | Ring Indicator                 |
| SCT    | Serial Clock Transmit          |
| SCTE   | Serial Clock Transmit External |
| SCR    | Serial Clock Receive           |
| DCT    | Dibit Clock Transmit           |
| COO    | Carrier On-Off                 |

◆ \* This signal may also be referred to as Request to Send (RS). ◆

**2.04** Data Set 301B must be wired per option Y (SD-1D033-01-B1) to extend the internal and external clock leads over the pendant cable to the 14A2 Data Unit. When the 14A2 Data Unit is activated for remote test 2 (RT2), it conditions DS 301B to operate from external clock or timing derived from the received data test signals, connects the Receive Data (RD) output to the Send Data (SD) input, and also connects the Carrier On-Off (COO) circuit to the Send Request (SR) circuit. This will allow DS 301B to operate as a regenerator

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which permits loop-back tests of the line pins of the data set from a remote serving test center.

**2.05** Options provided on the 14A2 Data Unit are as follows:

- ♦Option K is used when sealing current is to be provided over cable pairs.♦
- Option M is used when the associated data set requires external transmitter timing when the Send Request signal is "on," and internal transmitter timing when the Send Request signal is "off."
- Option N is used when the associated data set requires external transmitter timing.
- Option Q is used when the associated data set requires internal transmitter timing.

**2.06** ♦There are no operating controls associated with the 14A2 Data Unit.

**3. REFERENCES**

**3.01** The CDs and SDs for the data unit and the associated Data Auxiliary Set 806B5 are as follows:

CD- and SD-1D126-01—14A2 Data Unit

CD- and SD-1D097—Data Auxiliary Set 806B-Type

**3.02** Bell System Practices covering the various equipment associated with the 14A2 Data Unit are as follows:

| <b>SECTION</b> | <b>TITLE</b>  |
|----------------|---|
| 598-042-100    | Data Auxiliary Set 806B-Type, Description and Operation |
| 593-011-ZZZ    | Data Set 301B-Type.♦                                    |

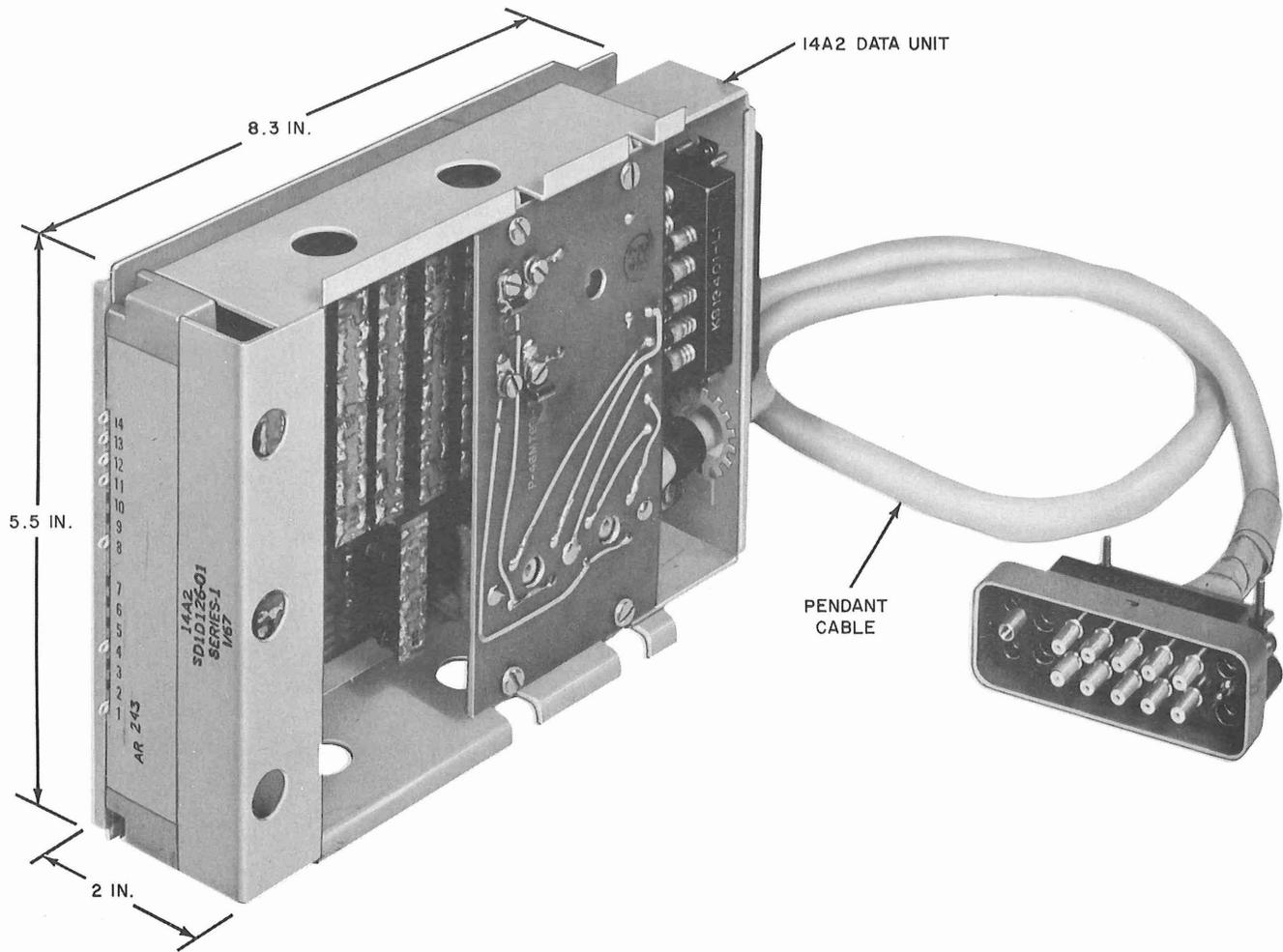


Fig. 1—I4A2 Data Unit