1A DATA STATION SELECTOR J70181AA

IDENTIFICATION

1. GENERAL

1.01 This section provides a physical description of the 1A data station selector (DSS) J70181AA.

> ***Note:*** Early installations of the 1A data station selector were apparatus coded as described in Section 590-105-180. The identical product has been recoded as equipment to aid central office record keeping. See Section 807-702-151 for the equipment design requirements of the 1A data station selector.

1.02 Whenever this section is reissued, the reason for reissue will be listed in this paragraph.

1.03 The 1A data station selector (Fig. 1) provides switching between the asynchronous line adapter (ALA) and the stations incorporated in the polled service of the Transaction Network (TN).

1.04 The polled stations are interfaced with the central processing unit (CPU) through an ALA unit and a DSS. These stations are sequentially interrogated (polled) by the ALA under control of the CPU software until a station with an inquiry message to be transmitted responds. The DSS does the actual switching and connecting of the station to the ALA in response to polled addresses from the ALA. Inquiry messages in the form of frequency-shift-keyed (FSK) modulated ASCII characters are demodulated by the modem portion of the ALA, converted to parallel digital words, and are transferred by the ALA to the CPU upon command from the CPU. The inquiry messages are then routed to the customer service center.

2. PHYSICAL DESCRIPTION

2.01 A DSS consists of the following circuit packs (CPs) mounted in a 55A1 data mounting:

- Two RF1 directional control and modem CPs
- Two RF2 control logic CPs
- One RF3 sampling and storage CP
- Two (minimum) to eight (maximum) RF4 8-line, 2-wire interface CPs
- Two RG1 DC power voltage sensing and switching CPs
- Two data auxiliary sets (DASs) 829A, B, or C, L1A; or two RG2 2-wire trunk interface CPs are also required, but must be ordered separately. The DAS 829 is described in Section 598-082-100.

2.02 The 55A1 data mounting is approximately 23 inches wide, 10 inches high, 12 inches deep, and weighs 39 pounds fully equipped. It is designed to be installed in a 23-inch central office frame or in a KS-20018-L3 cabinet when the DSS is to be installed on customer premises. Signal connections to the DSS are made via three connectors on the rear of the data mounting. Power input and external alarm connections are made on a screw-type terminal strip also located on the rear of the data mounting.

3. REFERENCES

3.01 The following documents contain information pertaining to the DSS:

SECTION	TITLE
230-100-001	Transaction Network—Overall System Description
230-100-460	TransactionNetwork—Asynchronous Line Adapter Frame J70179A—Description and Theory
314-100-010	TransactionNetwork—Transmission Requirements

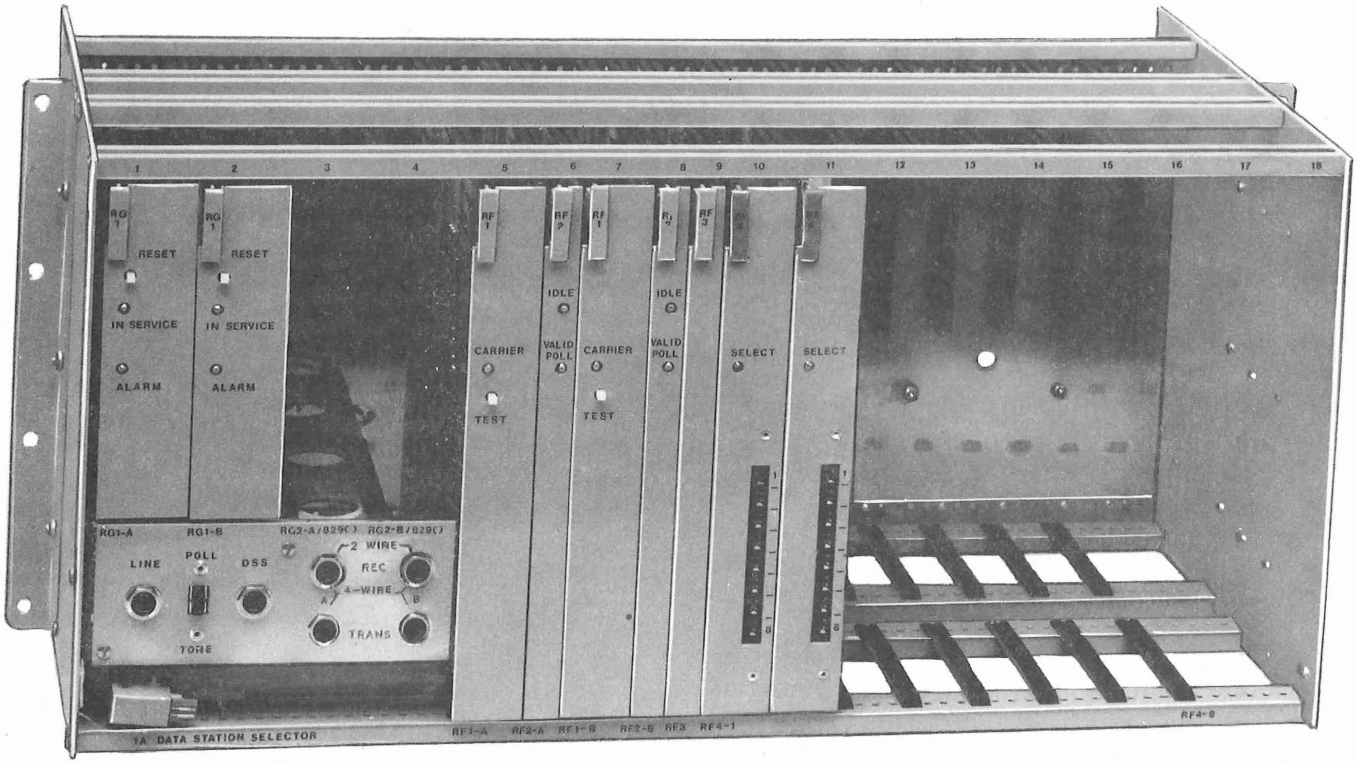

Fig. 1—1A Data Station Selector With List 1 Circuit Packs Installed

SECTION	TITLE
590-101-000	150A Channel Service Unit—Description, Installation, Maintenance, and Test
590-102-143	55A1 Data Mounting—Identification
590-105-110	Transaction Network—1A-Type Data Station Selector (DSS)—Description, Operation, and Theory
590-105-111	Transaction Network—1A-Type Data Station Selector—Task Oriented Practice
590-105-180	Transaction Network—1A-Type Data Station Selector—Summarizing Specification
598-082-100	Data Auxiliary Set 829-Type Channel Interface Units—Voiceband Private Line Channels—Description
880-480-000	Transaction Network Service—Engineering Considerations—Description