

DATA AUXILIARY SET 820J-TYPE IDENTIFICATION

1. GENERAL

1.01 This section identifies the data auxiliary set (DAS) 820J-type receive only station controller used in an 85A1 or 85A2 data selective calling service (DSCS) station. The DAS 820J-type station controllers are 820J-L1/2 used for 85A1 (100 words per minute) and 820J-L1/3 used for 85A2 (150 words per minute). Appropriate DAS attendant sets for use with teletypewriter (TTY) equipment are listed in Table A.

1.02 This section is reissued to add AR751 circuit pack (CP), which is used instead of data set (DS) 108- or 109-type to provide Electronic Industries Association (EIA) interface leads BA, BB, AA, and AB for interconnecting with a 1A data station single channel arrangement (SCA). The CP also provides a means for station testing at the customer's location using a 911P EIA test adapter and a 911NA data test set.

1.03 The 820J-type station controller is designed to be mounted inside an 85A1 or 85A2 outlying station TTY stand or cabinet.

1.04 The DAS 820J-type controller measures 15-1/2 inches long by 5-7/8 inches wide by 8-1/2 inches high. The controller and associated circuit packs are shown in Fig. 1.

2. DESCRIPTION

2.01 The DAS 820J-type station controllers are for half-duplex (HDX) service and are used in conjunction with various TTYS and station controller mounting brackets as given in Table A. For any given service, DAS 820J-L1/2 and 820J-L1/3 controllers are compatible with DAS 820G-type controllers.

2.02 The DAS 820J-type station controller consists of five AR-type circuit packs, a 59C apparatus mounting assembly which includes a 24A power

unit, a terminal strip for connecting the line, a maintenance switch, and a data bypass switch (T switch). The 59C assembly provides six connectors for plug-in, AR-type printed CPs (Table B). Four of the CPs are associated with station logic circuits, the fifth CP contains circuitry for interfacing with appropriate TTY terminals, and the sixth CP is the data set or AR751. AR681 or AR682 CP is the interface card. AR683 and AR684 CPs are equipped with rocker-type switches used for selecting circuit options. AR685 CP is equipped with a screw-type switch which controls clock speed. AR686 CP is equipped with rocker-type switches used for encoding and decoding special ASCII characters used in the 85A system dialogue, ie, station calling code (SCC) and station identification code (SIC). In addition, data set 108A (series 4 or higher), 108E (series 4 or higher), 109E, or AR751 CP for EIA interfacing and an appropriate DAS 804-type are required. The data set is not part of the 820J-type controller and must, therefore, be ordered separately. The 820J-type controller weighs approximately 16 pounds and requires 117 Vac power, 40 watts at 60 Hz. A lock strip extractor is provided with DAS 820J-type to remove CPs (Fig. 1).

2.03 Circuit pack designations for all DAS 802J-type controllers are given by AR-type CP and slot number in Table B. Circuit packs which are the same AR-type are identical; however, the CPs may not have the rocker switches or screw switches preset in the correct positions for a particular option.

2.04 Basic functions of 820J-type RO controllers operating in an 85A1 or 85A2 DSCS outlying station are:

- (a) To recognize ASCII characters, especially when combined into control sequences, from the line and data terminal.

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TABLE A

EQUIPMENT FOR USE WITH DAS 820J-TYPE CONTROLLERS

STATION ARRANGEMENT	STATION CONTROLLER*	TTY MACHINE†	STATION ATTENDANT SET	CONTROLLER MOUNTING BRACKET	AUX RCVR TTY (OPTIONAL)
85A1 (100 wpm)	820J-L1/2	33 RO	804N3	91A	33 RO
		35 RO‡	804N3	92A	35 RO or 35 ROTR
		35 ROTR‡	804R7	95A	None
85A2 (150 wpm)	820J-L1/3	37 RO	804R7	93A	37 RO or 37 ROTR
		37 ROTR‡	804R7	95A§	None

* See Table B for CPs.

† RO indicates Receive Only; ROTR indicates Receive Only Typing Reperforator.

‡ 3/4-inch spacers provided with 820J controller are mounted between TTY frame and controller mounting bracket to provide proper clearance for M and N connectors.

§ The 95A bracket is used to mount controller in a KS-20018-L1, -L2, -L3, or -L4 cabinet.

(b) To generate responses to the line in the form of ASCII characters in accordance with the status of the station.

(c) To interconnect with the line through a data set.

(d) To interconnect with a data terminal through an interface circuit (part of the controller), especially designed for the type of terminal in use. (Only M33, M35, and M37 interface circuits are presently available.)

(e) To perform logic functions associated with automatic operation of the station.

3. REFERENCES

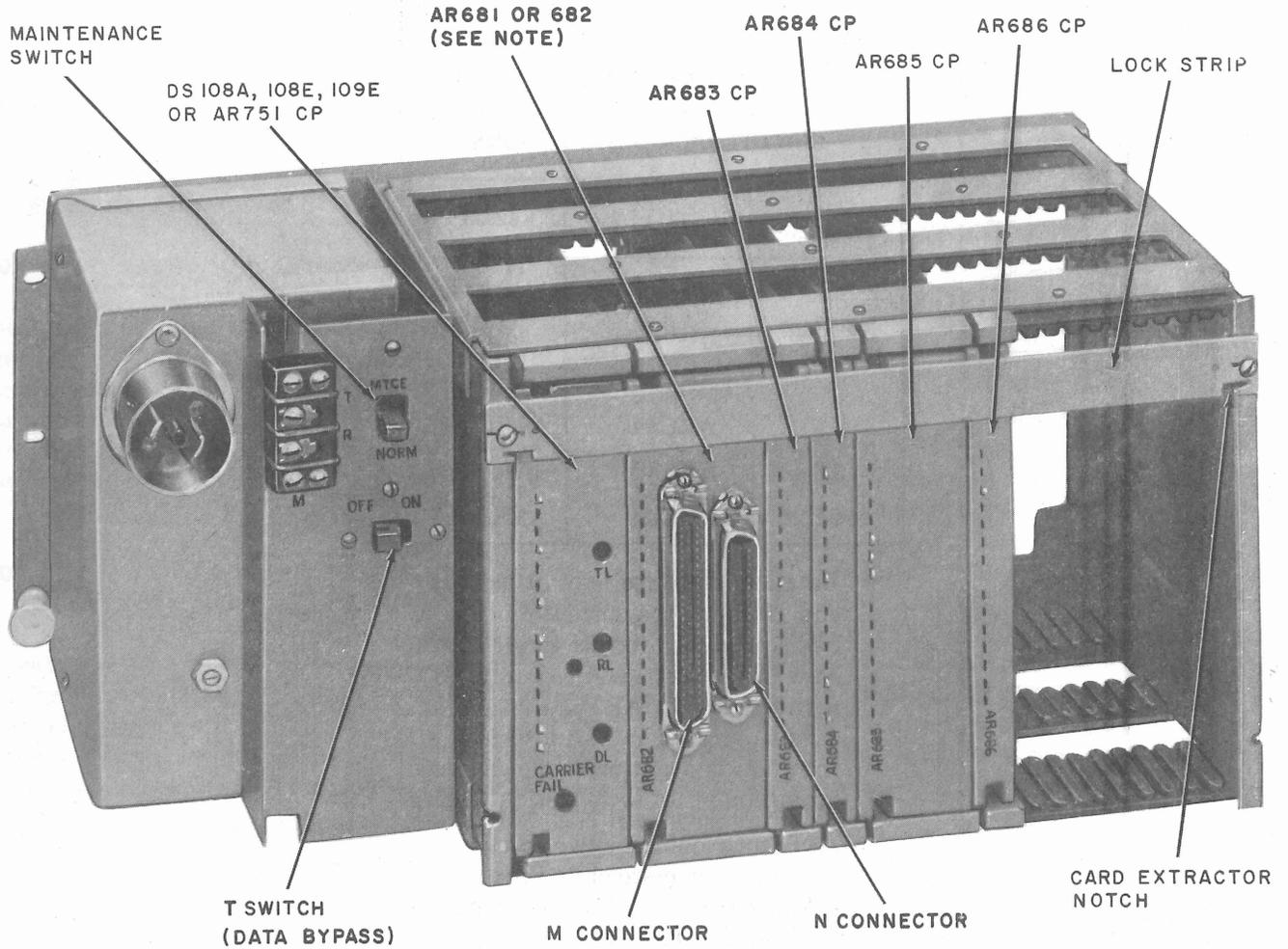
3.01 The following schematic drawings (SDs) and circuit descriptions (CDs) include information pertaining to DAS 820J-type:

NUMBER	TITLE
SD- & CD-1D198-01	Data Set 109E-L1

NUMBER	TITLE
SD- & CD-1D229-01	Central Office and Station Data Set 108E-Type
SD- & CD-1D244-01	DAS 820J-Type Receive Only Controller and 820L-Type ASR Controller
SD- & CD-1D258-01	EIA Interface Coupler (AR751 CP)
SD- & CD-3D024-01	Data Set 108A-Type (MD)
SD- & CD-3D041-01	Controller and Data Auxiliary Sets 804N3, 804N5, 804R5, and 804R7 Attendant Sets.

3.02 Additional information for DAS 820J-type is covered in the following Bell System Practices:

SECTION	TITLE
581-130-100	85A-Type Data Selective Calling Service System—Description



NOTE:
 DAS 820J-LI/2 USES AR682 CP
 DAS 820J-LI/3 USES AR681 CP

Fig. 1—Data Auxiliary Set 820J-Type Controller

SECTION	TITLE	SECTION	TITLE
581-131-100	85A1 Data Selective Calling Service—Outlying Station for 100-Word Per Minute Operation—Description and Operation	581-131-101	85A2 Data Selective Calling Service—Outlying Station for 150-Word Per Minute Operation—Description and Operation.

◆ TABLE B ◆

CIRCUIT PACK DESIGNATIONS

SLOT NUMBER	820J-L1/2	820J-L1/3
1	DS or CP*	DS or CP*
6	AR682	AR681
12	AR683	AR683
14	AR684	AR684
16	AR685†	AR685†
21	AR686	AR686

* Data sets 108E (series 4 or higher) and 109E are the current models being produced for use in the DSCS. New installations will be equipped with these sets. AR751 CP is used to provide an EIA interface for a 1A data station single channel arrangement or local station testing.

† AR685 CP contains two screw switches which are closed for DAS 820J-L1/2 (85A1) and open for DAS 820J-L1/3 (85A2).