

DATA SET 108-TYPE
SINGLE PRIVATE LINE STATION
USING DATA AUXILIARY SET 820D-TYPE
MAINTENANCE

1. GENERAL

1.01 No routine maintenance is required for Data Sets 108A- and 108C-type Single Private Line Station using Data Auxiliary Set (DAS) 820D-type. Construction of the station units and method of installation make complete station replacement simple and easy.

1.02 This section is reissued to provide information pertaining to DAS 820D-L1 and DAS 820D-L1A which replace DAS 820D1 and DAS 820D2, respectively. DAS 820D1 and DAS 820D2 are rated manufacture discontinued (MD). All references to DAS 820D-L1 and DAS 820D-L1A apply, respectively, to DAS 820D1 and DAS 820D2 except where noted. Due to the number of changes, arrows ordinarily used to indicate changes have been omitted.

1.03 The data station consists of a Data Set 108-type installed in a DAS 820D-type. The circuit layout record card should be consulted for each station configuration.

1.04 Preoperative tests and adjustments in replacement sets should be in accordance with the procedures outlined in the section entitled Data Set 108-Type Single Private Line Station—Using Data Auxiliary Set 820D-Type—Installation and Connections (591-023-201).

1.05 There is no requirement for special tools or equipment.

2. REPLACEMENT PROCEDURES

Warning: *To prevent injury to the telephone employee, power should be removed from the data station before the cover or components of the station are removed.*

DAS 820D-L1 Cover Removal and Replacement

2.01 Removal:

- (1) Loosen, but do not remove, the four screws located around the base of the DAS.
- (2) Carefully lift plastic housing free of the base.

2.02 Replacement:

- (1) Position retaining wedges of the cover screws in such a manner as to receive cover lugs.
- (2) Place plastic housing on DAS and carefully position housing lugs directly over housing screws. Place housing in position and tighten screws.



Care must be taken to avoid stripping the plastic threads when tightening cover screws.

Data Set 108-type and AR17 Circuit Pack Removal and Replacement

2.03 Removal:

- (1) Remove housing from DAS 820D-L1 in accordance with 2.01.

Note: DAS 820D-L1A is not supplied with a plastic housing.

- (2) Remove locking strip, if provided, by loosening the two screws and sliding it to the left to disengage it from the screw and then to the right to remove it from the apparatus mounting.
- (3) Grasp extracting handle of circuit pack (CP) or data set to be removed and pull forward.

2.04 Replacement:



When the data set and/or AR17 CP is replaced, verify that proper options are installed in replacing data set and/or AR17 CP and that power has been removed from the DAS.

- (1) Position replacement AR17 CP or data set and firmly push it into locking position.

Note: Data sets and AR17 CP are keyed to prevent positioning in the wrong slots.

- (2) Replace locking strip, if provided, by reversing the procedure in 2.03.
- (3) Replace cover on DAS 820D-L1 in accordance with 2.02.
- (4) Verify proper send and receive levels as indicated on the circuit layout record card. (See Section 591-023-201 for send and receive level adjustments.)

DAS 820D1 and DAS 820D-L1 Removal and Replacement

2.05 Removal:

- (1) Remove power cord and business machine mounting cord from J3.
- (2) Remove housing in accordance with 2.01.
- (3) Tag and remove wiring connections from terminal board (TB 1) of DAS 820D-L1 (TS A for DAS 820D1).

2.06 Replacement:

- (1) Position DAS 820D1 or DAS 820D-L1 within the range of the business machine cord and remove cover in accordance with 2.01.

DAS 820D1

- (2) Connect tip (T) and ring (R) to the telephone line to terminals 1 and 2 of TS A.
- (3) If remote TEST key is to be installed, connect the key to terminals 3 and 4 of TS A.
- (4) If a remote TEST lamp is to be installed, connect lamp to terminals 5 and 6 of TS A.

DAS 820D-L1

- (5) Connect T and R of the telephone line to terminals 1 and 2 (2-wire) or terminals 1 and 2, 3 and 4 of TB 1 (4-wire).
- (6) If remote TEST key is to be installed, connect the key to terminals 5 and 6 of TB 1.
- (7) If a remote TEST lamp is to be installed, connect the lamp to terminals 11 and 12 of TB 1.
- (8) Make certain that AR17 CP and the data set are properly secured, that proper options are installed, and the cover is replaced on the data set.
- (9) Connect business machine cord to 25-pin connector J3 and power cord to power receptacle on DAS.

DAS 820D2 and DAS 820D-L1A Removal and Replacement

2.07 Removal from Model 35 TTY:

- (1) Remove the chad container on the 35 Automatic Send and Receive (ASR) Teletypewriter (TTY) by sliding it to the left, raising the right side, and sliding it to the right.
- (2) Operate the two pushbutton fasteners located at the top of the lower compartment panel.
- (3) Depress the spring clip underneath the keyboard and pivot the lower compartment panel to the floor.
- (4) Disengage the panel from pivot screws and remove panel.

Note: The procedure for a 35 receiver-only teletypewriter is the same as the 35 ASR TTY, with the exception that only one pushbutton fastener is used to hold the lower compartment panel, and no chad container is provided.

- (5) Remove power cord and interface cord from J3.

(6) Tag, or identify otherwise, and remove wiring connections from TB 1 of DAS 820D-L1A (TS A for DAS 820D2).

(7) Loosen spring clips holding DAS 820D-L1A to 180A backboard, and lift DAS 820D-L1A out of the cabinet.

2.08 Removal from Model 37 TTY:

- (1) Open door on right side of TTY.
- (2) Disconnect jacknut from 98A bracket.
- (3) Remove 98A bracket with DAS 820D-type from TTY pedestal.
- (4) Remove power cord and interface cord from J3.
- (5) Tag, or identify otherwise, and remove wiring connections from TB 1 of DAS 820D-L1A (TS A of DAS 820D2).

2.09 Replacement in Model 35 or 37 TTY:

- (1) Position DAS 820D2 or DAS 820D-L1A on 180A backboard and tighten spring clips.

DAS 820D2

- (2) Connect T and R to terminals 1 and 2 of TS A.
- (3) If remote TEST key is to be installed, connect the key to terminals 3 and 4 of TS A.
- (4) If a remote TEST lamp is to be installed, connect lamp to terminals 5 and 6 of TS A.

DAS 820D-L1A

- (5) Connect T and R of telephone line to terminals 1 and 2 (2-wire) or terminals 1 and 2, 3 and 4 of TB 1 (4-wire).
- (6) If remote TEST key is to be installed, connect the key terminals 5 and 6 of TB 1.
- (7) If a remote TEST lamp is to be installed, connect the lamp to terminals 11 and 12 of TB 1.

(8) Verify that AR17 CP and data set are properly secured and proper options installed.

(9) Connect interface cord to 25-pin connector J3 and power cord to power receptacle on DAS.

(10) Verify proper send and receive levels as indicated on circuit layout record card. (See Section 591-023-201 for send and receive level adjustments.)

(11) Replace kneewell panel by reversing procedure outlined in 2.07 or replace in right-hand panel of Model 37 TTY by reversing the procedure in 2.08.

3. REFERENCES

3.01 The following sections pertain to Data Set 108-type using DAS 820D-type:

| SECTION | TITLE |
|----------------|---|
| 591-023-100 | Data Set 108-Type Private Line System Station Application—Description |
| 591-023-300 | Data Set 108-Type Private Line System Station Application—Maintenance |
| 591-023-101 | Data Set 108-Type Single Private Line Station Using Data Auxiliary Set 820D-Type—Description and Operation |
| 591-023-201 | Data Set 108-Type Single Private Line Station Using Data Auxiliary Set 820D-Type—Installation and Connections |
| 591-023-501 | Data Set 108-Type Single Private Line Station Using Data Auxiliary Set 820D-Type—Test Procedures |
| 591-028-100 | Data Set 108D-Type—Description |
| 598-058-100 | Data Auxiliary Set 820D-Type—Identification. |

SECTION 591-023-301

| SECTION | TITLE | | |
|-----------------|---|-----------------|------------------------------|
| | | SD-&CD-3D032-01 | Data Set 108C |
| 3.02 | The following schematic drawings (SDs) and circuit descriptions (CDs) pertain to Data Set 108-type using DAS 820D-type: | SD-&CD-3D031-01 | Data Auxiliary Set 820D-Type |
| SD-&CD-3D024-01 | Data Set 108A | SD-&CD-73060-01 | Data Set 108D. |