

REPLACING PAGE ADDENDUM

Filing Instructions:

1. REMOVE FROM THE SECTION THE PAGES NUMBERED THE SAME AS THOSE ATTACHED TO THIS PINK SHEET.
2. INSERT THE ATTACHED PAGES INTO THE SECTION IN THEIR PLACE.
3. PLACE THIS PINK SHEET AHEAD OF PAGE 1 OF THE SECTION.

10A DATA LINE CONCENTRATOR

TEST PROCEDURES

1. GENERAL

1.001 This addendum supplements Section 591-811-500, Issue 2. The attached pages must be inserted in the section in accordance with the filing instructions above.

1.002 This addendum is issued to clarify the note in Step 7 and the requirement of Test A.

3. PROCEDURES

The following changes apply to Part 3 of this section:

- (a) Test A, note in Step 7 — revised.
- (b) Test A, requirement for Step 8 — revised.

Attached:

Page 1 dated March 1972 — reissued

Page 2 dated March 1972 — revised.

10A DATA LINE CONCENTRATOR TEST PROCEDURES

1. GENERAL

1.01 This test covers the procedures to be followed when testing the 10A Data Line Concentrator in order to locate a trouble condition. Installation testing is covered in the section entitled 10A Data Line Concentrator—Installation and Connections (591-811-200) and therefore will not be covered herein.

1.02 This section is reissued to include corrections as indicated by arrows.

1.03 The tests covered are:

A. Line Connection Test: This test checks the ability of the concentrator to connect a specific line to a specific trunk.

B. Switching Matrix Network Test: This test checks continuity between the tip and ring leads of a particular line circuit (AR365) and the tip and ring leads of a particular trunk circuit (AR368) through the switching matrix network crosspoints.

C. Control, Line and Switch, and Trunk Module Test: This test checks the voltages on the terminal boards of the control module (TB1), line and switch module (TB3), and trunk module (TB2).

D. Circuit Pack Test: This test checks the voltages and signals present on the test points of the AR365, AR368, AR370, AR371, AR374, AR375, and AR384 circuit packs used in the concentrator.

E. Repeat Trunk Test: This test checks the ability of the concentrator to connect a specific trunk to any or all lines.

F. Q1 Test: This test checks transistor Q1 on the 23A1 Data Mounting.

1.04 These tests should be performed in accordance with the section entitled 10A Data Line Concentrator—Maintenance (591-811-300).



When the Data Auxiliary Set (DAS) 803E1 and AR464 circuit pack are used to establish a connection, the call request is placed in queue the same as any normal call. Thus, if the line scanner is not working or if the test connection is attempted during periods of heavy traffic, it may take a long time to establish the test connection. It is therefore advised that Tests A, B, and E be performed during a nonbusy hour.

2. APPARATUS

Tests A, B, and E

2.01 DAS 803E1 and AR364 circuit pack (manual test set supplied with concentrator).

Tests B, C, D, and F

2.02 KS-14510-L1 volt-ohm-milliammeter (VOM), or equivalent.

3. PROCEDURES

Test A. Line Connection Test

STEP	PROCEDURE
1	Plug AR464 circuit pack into slot 11 of the right-hand nest of the 23A1 Data Mounting.
2	Plug J5 of the AR464 circuit pack into P5 of the DAS 803E1.
3	Operate switch on DAS 803E1 to OFF.

STEP	PROCEDURE
4	Locate the AR365 circuit pack corresponding to the line circuit to be connected.
5	<p>Connect the DAS 803E1 test cord (LINE CORD) to the test points of the line circuit to be tested.</p> <p>Note: Each red clip of the DAS 803E1 LINE CORD has two numbers on it and the black clip has four numbers. The numbers 1 and 9 on the black clip may be disregarded. The remaining two numbers and the two numbers on the red clips correspond to the test points on the AR365 circuit pack. Test points TP2, 3, 4, 5, and 6 of the AR365 circuit pack are associated with the circuitry for the odd-numbered lines and should be connected to the corresponding clip on the DAS 803E1 LINE CORD. Test points TP10, 11, 12, 13, and 14 of the AR365 circuit pack are associated with the circuitry for the even-numbered lines and should be connected to the corresponding clip on the DAS 803E1 LINE CORD.</p>
6	<p>Connect the AR464 circuit pack test cord (TRUNK CORD) to the test points of the AR368 circuit pack corresponding to the trunk circuit to be connected.</p> <p>Note: Each clip of the AR464 circuit pack TRUNK CORD has a number on it which corresponds to the test points on the AR368 circuit pack.</p>
7	<p>Operate switch on DAS 803E1 to TRK HOLD.</p> <p>Requirement: LB and TB lamps extinguished.</p> <p><i>A lighted LB lamp indicates that the line is in service, and a lighted TB lamp indicates that the trunk is connected to a line. If the LB and/or TB lamps are lighted, wait until both are extinguished before proceeding to Step 8. If the CF lamp is lighted at this time, it indicates that the trunk circuit is not seeing the proper voltage across L1 and L2 of the trunk. This could be because the port data set (or 1A Data Station) is squelching the current or it could indicate a trouble condition (eg, trunk loop open or shorted). The manual test equipment can force a connection between a line and this trunk even though a line requesting service cannot.</i></p>
8	<p>Operate switch of DAS 803E1 to LINE CONN.</p> <p>Note: For the connection to be established, the line must be served in the normal queue. If the test is made during a busy hour, it may take some period of time for the CONN, LB, and TB lamps to light after the DAS is switched to LINE CONN.</p> <p>Requirement: CONN, LB, and TB lamps lighted. If the CF lamp also lights, it indicates that no current is flowing in the loop. This is a normal condition as long as the station on that line is not turned on.</p>
9	<p>If no further tests are to be performed, operate switch on DAS 803E1 to OFF and disconnect DAS 803E1 and AR464 circuit pack test cords from the line and trunk circuits.</p> <p><i>It is important to disconnect the test cords when the test is finished because as long as they are connected, the trunk will appear busy to the concentrator.</i></p>