

## DATA SET 403E-TYPE SINGLE RECEIVER STATION TEST PROCEDURES

### 1. GENERAL

**1.01** This section describes local and remote test procedures for data set 403E-type. These tests are to be made at the time of installation and as a means of clearing routine trouble.

**1.02** This section is reissued to provide information on the use of an Automatic Data Test System (ADTS) with data set 403E-type. Since this reissue constitutes a general revision, arrows normally used to indicate changes have been omitted.

**1.03** Before proceeding with any tests of the data set, verify the following:

- (a) Data loop has been tested and meets requirements as specified in the section entitled Data Systems—Dataphone® Service and Data Access Arrangements on Direct Distance Dialing Network—Test Requirements for Subscriber, Foreign Exchange, and Remote Exchange Lines (314-205-501).
- (b) Data auxiliary set 804G-type meets standard dc talk, signaling, and supervision requirements.
- (c) Data set options agree with service order information.



*Take necessary steps to ensure customer is not billed for test calls. Refer to the section entitled Crediting Charges on Test Calls (010-250-001).*

### 2. REMOTE TESTS



*Data set 403E-type can be statically tested by an ADTS. For information on communicating with the automatic data test center, refer to the section entitled J1P005 Automatic Data Test System (ADTS)—Operation From Field Locations (590-010-500).*

**2.01** For single data set stations using data auxiliary set 804G-type, refer to Fig. 1 and perform the following procedure:

- (1) Using the data auxiliary set 804G-type telephone, call the serving data test center and request a test of the data set.
- (2) When instructed by the data test center, depress the TEST pushbutton (TEST lamp lights) and hang up. The data test center also hangs up.

**Note:** The data line will release but the data set will still be locked in the test mode.

- (3) The data test center now originates a call to the data set. The call is automatically answered and the DATA lamp lights. (Automatic answer is achieved in the test mode with or without the unattended option.)
- (4) The data test center performs a programmed test of the data set.
- (5) At completion of test, the data test center ends the call by transmitting a combination of frequencies to the data set. The data line and the data set return to normal.

**Note:** The test circuit and line may also be released by lifting the handset, depressing the DATA pushbutton and next the TALK pushbutton, and then placing the handset on-hook.

- (6) Discuss the test results with the data test center. If the data set does not meet the test requirements, replace the data set.

**2.02** For single data set stations using a private line with data auxiliary set 804G-type, refer to Fig. 1 and perform the following procedure (when

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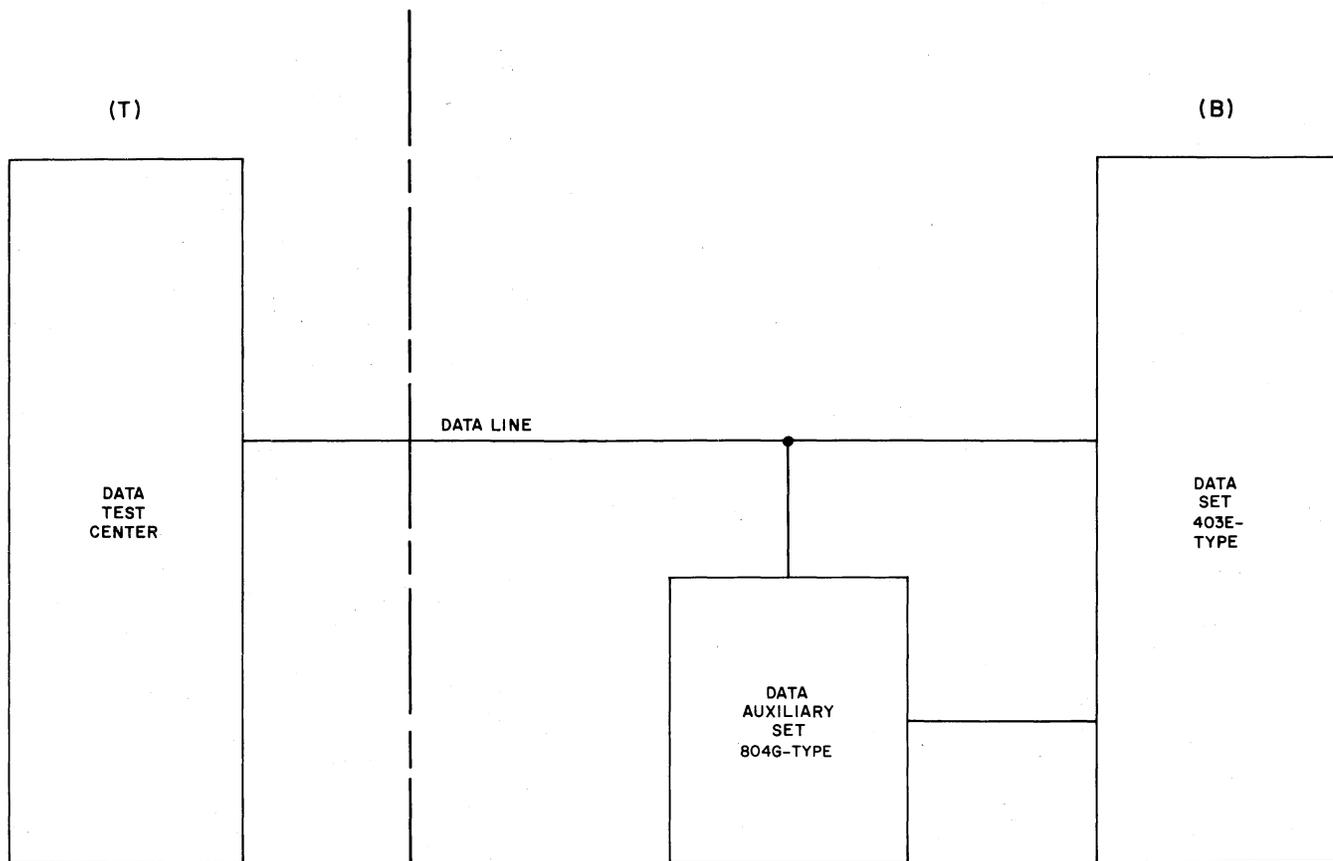


Fig. 1—Test Operation—Typical

talking battery is available and a 20-Hz ringing signal is not available):

- (1) Connect the data line to the serving data test center.
- (2) With the TALK pushbutton depressed and handset off-hook, discuss the test procedure with the data test center. The TALK lamp should be lighted at this time.

**Note:** Inform the data test center that as soon as the handset is placed on-hook the test tone is immediately transmitted and testing should start at Step 14 of the data test center test procedure.

- (3) When instructed by the data test center, depress the TEST pushbutton (TEST lamp lights) and hang up.

- (4) The data test center performs a programmed test of the data set.
- (5) At completion of test, the data test center ends the call by transmitting a combination of frequencies to the data set, which releases the data set from the test mode. The data set and data auxiliary set 804G-type return to normal.

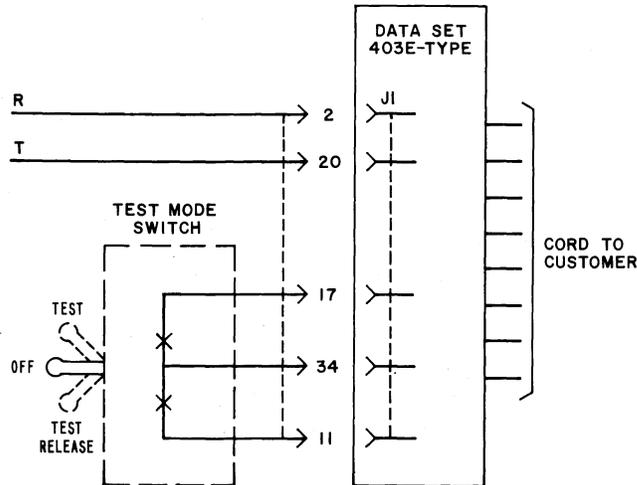
**Note:** The data set may also be released from the test mode by lifting the handset, depressing the DATA pushbutton and next the TALK pushbutton, and then placing the handset on-hook.

- (6) At completion of test, the data test center calls and reports the results of the test. If the data set does not meet the test requirements, replace the data set.

**2.03** For single data set stations using a private line without data auxiliary set 804G-type, refer to Fig. 2 and perform the following procedure:

## NOTES:

1. OPTION ZA SHALL BE CONNECTED IN THE DATA SET.
2. THE TEST MODE SWITCH SHALL BE A 479BC,BD,BF,BH,BW, CS, J OR EQUIVALENT. THE KEY IS A THREE-POSITION SWITCH, CENTER POSITION OFF AND THE OTHER TWO POSITIONS ARE NON-LOCKING.
3. TEST MODE SWITCH MUST BE ORDERED SEPARATELY AND INSTALLED PER THIS FIG.



**Fig. 2—Data Set 403E-Type Test Key for Dry Line Operation**

- (1) Connect the data line to the serving data test center.
- (2) Momentarily position the test mode switch to TEST (Fig. 2). This transmits a test tone to the data test center. The data test center should be prepared to receive this signal and then to begin the test at Step 14 of the data test center test procedure.

**Note:** All the customer data set leads are temporarily transferred to internal test apparatus within the data set in order that they may be tested by the data test center.

- (3) The data test center performs a programmed test of the data set.
- (4) At completion of test, the data test center ends the call by transmitting a combination of frequencies to the data set, which releases the data set from the test mode. The data set returns to normal.

**Note:** The data set may also be released from the test mode by momentarily positioning the test mode switch to TEST RELEASE.

- (5) The data test center calls and reports the results of the test. If the data set does not meet test requirements, replace the data set.