

DATA SET 113A-L1B

TEST PROCEDURE

1. GENERAL

1.01 This section describes the test procedure to be performed at the time of installation of data set (DS) 113A-L1B or when investigating trouble conditions associated with this data set.

1.02 When this section is reissued, this paragraph will contain the reason for reissue.

1.03 This section describes the loop-back test from a data test center (DTC). This test checks the transmit frequencies, levels, and spacing sensitivity of the data set. A check is also made of the data set receive circuits.

1.04 Prior to performing the test, verify the following:

- (a) DS 113A-L1B is properly connected to the transmission facility.
- (b) The overall transmission facilities meet requirements specified in the section entitled Data Systems—DATA-PHONE® Service on Direct Distance Dialing Network—Test Requirements for Subscriber, Foreign Exchange, and Remote Exchange Lines (314-205-501).
- (c) Telephone portion of installation meets standard dc talk, signaling, and supervision requirements.
- (d) The data set options agree with the service order.



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).

1.05 The loop-back test should be made at the time of installation by the nearest 904-type DTC.

1.06 The only requirement for the loop-back test is access to a DTC.

2. TEST FEATURES

Test Key

2.01 The data set is equipped with a single push-to-operate, push-to-release test key which is accessible through the front cover. This key is designated TM and is used to condition the data set for digital loop-back testing.

Digital Loop-back Test

2.02 A digital loop-back test is usually set up at the request of the DTC. The DTC calls the data station, which answers in the talk mode. Depress the TM key when requested by the DTC. After receiving the f_2 mark tone, transfer to the data mode and replace the handset. Operation of the TM key opens the BA, BB, CC, and CD leads, simulates internally an *on* condition of the CD circuit, and internally loops receive data to send data. Replacing the handset on the cradle removes the squelch from the modulator and the mark clamp from the receive data circuit.

2.03 The digital loop-back test permits the DTC to measure the following:

- Mark frequency and level
- Space frequency and level
- Slicing frequency
- Space sensitivity
- Round-trip distortion.

Procedure

NOTICE

Not for use or disclosure outside the Bell System except under written agreement

STEP	PROCEDURE
1	When the DTC calls, operate the LINE key and pick up the handset.
2	The DTC instructs the data set attendant when to go to the test mode and for how long to remain in the test mode.
3	When the f_2 mark tone is received from the DTC, operate the TM key. Then momentarily operate the DATA key, and place the handset on-hook. Requirement: If option V or X is provided in the data set, DATA lamp lights. If option W is provided in the data set, DATA lamp does not light.
4	After the prearranged time specified in Step 2, pick up the handset and then operate the LINE key. Note: If the sequence of Step 4 is not followed, the call will be lost. Requirement: DATA lamp goes off.
5	The DTC conveys the results of the test.
6	Note the test results and disconnect the test call by placing the handset on-hook.
