

DATA SET 113AR-L1C

TEST PROCEDURE

1. GENERAL

1.01 This section describes the test procedure to be performed at the time of installation of data set (DS) 113AR-L1C or when investigating trouble conditions associated with this data set.

1.02 When this section is reissued, the reason for reissue will be contained in this paragraph.

1.03 This section describes the loopback 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) Data set 113AR-L1C is properly connected to the transmission facility.
- (b) The overall transmission facilities meet requirements specified in the section entitled Data Systems—DATAPHONE® 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 loopback test should be made at the time of installation by the nearest 904-type DTC.

1.06 The only requirement for the loopback test is access to a DTC.

2. TEST FEATURES

Test Switch

2.01 The data set is equipped with a push-to-operate, push-to-release test switch that is accessible through the front cover. This switch is designated TM and is used to condition the data set for digital loopback testing.

Digital Loopback Test

2.02 A digital loopback test is usually set up at the request of the DTC. The DTC calls the data station, which answers in the talk mode. Operate the TM switch when requested by the DTC. After receiving the f2 mark tone, transfer to the data mode and replace the handset. Operation of the TM switch opens the BA, BB, CC, and CD leads, simulates internally an *on* condition of the CD lead, and internally loops received data to send data. Replacing the handset on-hook removes the squelch from the modulator and the mark clamp from the received data circuit.

2.03 The digital loopback test permits the DTC to measure the following:

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

NOTICE

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

Procedure

STEP	PROCEDURE
1	When the DTC calls, ensure the TK switch on the data set is depressed 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 f2 mark tone is received from the DTC, operate the TM switch on the data set. Then momentarily depress the DM switch on the data set and place the handset on-hook. Requirement: If option V or X is provided in the data set, DM lamp lights. If option W is provided in the data set, DM lamp does not light.
4	After the prearranged time specified in Step 2, pick up the handset and then depress the TK switch on the data set. Note: If the sequence of Step 4 is not followed, the call will be lost. Requirement: DM lamp goes off.
5	The DTC conveys the results of the test.
6	Release TM switch on data set.
7	Note the test results and disconnect the test call by placing the handset on-hook.
