



DIAL PULSE INCOMING REGISTERS
TESTS USING OFFICE TEST FRAME
NO. 5 CROSSBAR OFFICES

1. GENERAL

1.001 This addendum supplements Section 218-439-501, Issue 2. The attached pages must be inserted in accordance with filing instructions above.

1.002 This addendum is issued to add Test K to provide testing procedures for translation of information code 411 over tandem and intertoll trunks for marker start by the register. This addendum affects Equipment Test Lists.

1.003 The following change applies to Part 1 of this section:

Test K—Added

4. METHOD

The following change applies to Part 4 of this section:

Test K—Added

Attached:

Page 1 dated May 1975, revised
Page 2 dated May 1975, revised
Page 9 dated May 1975, added
Page 10 dated May 1975, added
Page 11 dated May 1975, added.

DIAL PULSE INCOMING REGISTERS

TESTS USING OFFICE TEST FRAME

NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing dial pulse incoming registers using the office test frame in No. 5 crossbar offices.

1.02 This material is reissued to incorporate material from the addendum in its proper location. In this process marginal arrows have been omitted.

1.03 The tests covered are:

A. Regular Call: The following features are checked: (1) Registration of the trunk link frame number. (2) Registration of pulses for each digit. (3) Registration of numerals on a two-out-of-five code basis.

B. Special Call: This test checks the ability of the register to select a special marker.

C. Numbers of Digits to be Received: This test checks the ability of the register to seize the marker when it has received all the digits required for the code or trunk class.

D. Link Release and Verification of Trouble Indicating Leads: This test checks that the register times out and calls in the trouble indicator and releases when the CK relay fails to operate in the register.

E. Double Connection: This test checks that the register recognizes a double connection in the incoming register link switch and times out and calls in the trouble indicator.

F. Abandoned Call: This test checks the ability of the register to release on abandoned calls.

G. Reorder: This test checks the ability of the register to recognize a failure to receive pulses when pulsing is expected.

H. Over-all Time-out: This test checks that the over-all timer causes a trouble release within the required time interval.

I. Common Alarm Timing: This test checks that the common alarm circuit is operated by the register in the allotted time.

J. AC, RV, and LR Timers: This test checks the timing interval of the AC, RV, and LR timers.

K. Information Codes: This test checks translation of information code 411 over tandem and intertoll trunks for marker start by the incoming register.

1.04 Test B requires action and verification at the incoming register link frame and at local test desk.

1.05 Lettered Steps: A letter a, b, c, etc, added to a step number in Parts 3 and 4 of this section, indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

1.06 Local instruction should be followed for recording and reporting any register operations caused by performing these tests.

2. APPARATUS

All Tests Except B and J

2.01 Office test frame (OTF).

Tests A and C Through I

2.02 Patching cord, P3D cord, 6 feet long, equipped with two 309 plugs (3P3A cord), as required.

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2.03 Patching cords as required, P3E cord, 8 feet long, equipped with two 310 plugs (3P6E cord).

2.04 Patching cord, W3M cord, 15 feet long, equipped with one 310 plug and three 360 tools (3W4B cord) and one KS-6248 connecting clip (used to connect SP jack to unit terminal strip).

Tests B, D, E, H, and I

2.05 Blocking and Insulating Tools, as required. Use tools and apply, as covered in Section 069-020-801.

Tests G Through I

2.06 KS-3008 Stop watch, or equivalent.

Tests I and J

2.07 No. 322A make-busy plug.

Test J

2.08 Test Set for Timing Tests J24753A (SD-25707-01).

3. PREPARATION

STEP	ACTION	VERIFICATION
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All Tests Except B and J

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|-----|--|--|
| 1 | At jack, lamp, and key circuit—
Using P3D patch cord, interconnect the IR jack in the MB2 field and the IRMB_ jack of the register being tested. | |
| 2 | Using P3D patch cord, interconnect the IR jacks in the MB1 field and the IRMB_ jacks of all other registers of the same type as register being tested. | |
| 3 | From office records select an incoming trunk of proper trunk class served by register under test and have trunk made busy at distant office. | |
| 4 | At relay rack—
Using P3E patch cord, interconnect the ITT and T jack of trunk to be used in test. | |
| 5 | At office test frame (OTF)—
Operate ITT and ITT1 keys. | |
| 6a | If trunk used in test is by-link—
Operate BL key. | |
| 7a | At jack, lamp, and key circuit—
Patch from TM jack to SP jack using P3E cord. | |
| 8a | At relay rack—
Patch W3M cord to SP jack and connect sleeve to punching 42 on trunk unit terminal strip. | |
| 9b | If trunk used in test does not require a start dial signal—
Operate ONHK key. | |
| 10c | If trunk used in test has A_ relay ground shunt—
Operate GS key. | |

STEP	ACTION	VERIFICATION
K. Information Codes		
Tandem Trunks		
	<i>Note:</i> Ensure that a <i>tandem</i> trunk class is associated with the incoming trunk selected in Step 3.	
12	At OTF— Operate MKR_ key to select completing marker.	
13	Operate CB key.	
14	Set A through C DIAL switches to select information code 411.	
15	Operate 3D key.	
16	Operate ST key.	IS lamp lighted until end of pulsing. At TIC— Display registered. A_ through C_ lamps lighted corresponding to digits set up on A through C DIAL switches. TAN lamp lighted identifying incoming tandem type trunk used to select incoming register. TF_ lamp lighted identifying trunk link frame number of incoming tandem trunk used in test.
17	At OTF— Restore ST key.	
18	At TIC— Momentarily operate RLS key.	Display released.
19	At OTF— Restore all keys and switches not required in next test.	

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STEP	ACTION	VERIFICATION
Intertoll Trunks		
20	Repeat Steps 3 through 11d as required. <i>Note:</i> Ensure that a <i>toll</i> trunk class is associated with the incoming trunk selected in Step 3.	
21	At OTF— Operate MKR_ key to select completing marker.	
22	Operate CB key.	
23	Set A through C DIAL switches to select information code 411.	
24	Operate 3D key.	
25	Operate ST key.	IS lamp lighted until end of pulsing. At TIC— Display registered. A_ through C_ lamps lighted corresponding to digits set up on A through C DIAL switches. TOL lamp lighted identifying incoming intertoll type trunk used to select incoming register. TF_ lamp lighted identifying trunk link frame number of incoming intertoll trunk used in test.
26	At OTF— Restore ST key	
27	At TIC— Momentarily operate RLS key.	Display released.
28	At OTF— Restore all keys and switches not required in next test.	
29a	If trunk used in test is bylink— At jack, lamp, and key circuit— Remove patching cord from TM and SP jacks.	

STEP	ACTION	VERIFICATION
30a	At relay rack— Remove patching cord from SP jack and terminal 42 on trunk unit terminal strip.	
31	At relay rack— Remove patching cord from ITT jack and T jack of trunk under test.	
32	At jack, lamp, and key circuit— Remove patching cords from the IR jacks in the MB1 and MB2 fields placed in Steps 1 and 2.⬇	