Installation Engineering Handbook 61
Western Electric Company, Incorporated
Columbus Works

SUBSCRIBER SENDER OPERATIONAL TESTS DIAL TONE FIRST

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1. GENERAL INFORMATION

1.1 This section describes the operational tests to be applied to those subscriber senders modified for the Dial Tone First Feature.

1.2 The tests of this section are made using the Originating Sender Test Circuit, SD-25221-01.

1.3 The modification of the Originating Marker and Originating Marker Connector should be completed prior to performance of tests of this section.

2. TEST DESCRIPTION

2.1 Coin Failure Tests

2.11 This test verifies the senders ability to recognize a coin failure (absence of coin ground) and initiate a second marker trial to route the call to a coin failure announcement. If the marker receives the proper reroute translation from the sender, lamp COK lights and the test frame releases. If the marker does not receive the proper translation, the test frame blocks.

2.2 False Trunk Closure Test

2.21 This test verifies that a false trunk closure does not occur prior to completion of the marker second trial. If a false trunk closure occurs the test frame blocks.

2.3 Sender GT Relay Release Test

2.31 This test verifies that the sender GT relay released will cause the call to route to a Coin Failure Announcement. If the GT relay does not release the test frame blocks and lamp GTK is lighted. Lamp GTK may flash during office brush, office group, incoming and final selections and has no effect on the test.

2.4 Sender GT Relay Operate Test

2.41 This test places a stringent operate resistance on the tip lead to reoperate the sender GT relay. If the GT relay operates, the call completes satisfactorily. If the GT relay does not operate, the test frame blocks and lamp GTK is lighted.

2.5 Detect False Sender GT Relay Test

2.51 This test verifies that the sender GT relay does not operate on free calls. False operation of the sender GT relay on this call causes the test frame to block and lamp DGT is lighted.

2.6 Coin Completion Test

2.61 The operation of key CR provides a 1000 Ohm ground to the tip lead to assure coin test for all non "coin service improvement" coin class test calls.

2.7 Coin Failure Announcement Routing

2.71 When the Coin Failure Announcement Route requires office selections, key SBA and switches OBA-, OGA- and CRA- must be operated to enable office selection completion.

3. TEST OPERATION

NOTE: Refer to Handbook 61, Section 162.1, for assistance in performing the tests of this section.

3.1 Coin Failure Tests

TYPE	TEST CLASS	CLASS OF SERVICE	MISC. KEYS	SEE PARAGRAPH	
Full Select	1	Coin	CON	2.1	2.7
MF-7 Digit	17	Coin	CON	2.1	2.7
PCI Direct	5	Coin	CON	2.1	2.7
PCI Tandem	4	Coin	CON,TWD, OB-,OG-	2.1	2.7
PCI Tandem 2W Office	4	Coin	CON,TWU, OB-,OG-	2.1	2.7

3.2 False Trunk Closure Test

TYPE	TEST CLASS	CLASS OF SERVICE	MISC. KEYS	SEE PARAGRAPH
PCI Direct	5	Coin	CON,FTC	2.2

3.3 Sender GT Relay Release Test

TYPE	TEST CLASS	CLASS OF SERVICE	MISC. KEYS	SEE PARAGRAPH
Full Select	1	Coin	CON,GTN	2.3

3.4 Sender GT Relay Operate Test

TYPE	TEST CLASS	CLASS OF SERVICE	MISC. KEYS	SEE PARAGRAPH
Full Select	1	Coin	CON,GTO	2.4

3.5 Detect False Sender GT Relay Test

TYPE	TEST CLASS	CLASS OF SERVICE	MISC. KEYS	SEE PARAGRAPH
Special Service Oper.	9	Non-Coin	DGT	2.5

3.6 Coin Completion Tests

TYPE	TEST CLASS	CLASS OF SERVICE	MISC. KEYS	SEE PARAGRAPH
Full Select	1	Coin	CR	2.6
MF 7-Digit	17	Coin	CR	2.6
PCI Direct	5	Coin	CR	2.6
PCI Tandem	4	Coin	CR,TWD, OB-,OG-, CR-	2.6
PCI Tandem 2W Office	4	Coin	CR,TWU, OB-,OG-, CR-	2.6

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