DIAL LONG LINE CIRCUITS — COIN WIRE-SPRING-RELAY TYPE TESTS NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing wire-spring-relay type dial coin long line circuits in No. 5 crossbar offices.

1.02 The tests covered are:

A. Terminating Call: This test checks the ability of the circuit to ring tne coin station and to close the talking connection.

B. Originating Call: This test checks the ability of the circuit to repeat pulses dialed from the coin station and to control the disposition of the coin.

1.03 Tests should preferably be made during periods of light traffic and should be completed as quickly as possible to avoid interference with originating or terminating calls. If it is noted at any time that a call is blocked by the equipment under test, the equipment should be restored to service so that the call can be served.

1.04 An assistant is required for Test A.

2. APPARATUS

All Tests

2.01 One coin collector, as used in exchange area, including transmitter, receiver, and bell box.

2.02 Test cord - 893 cord, 6 feet long, equipped with two No. 360A tools (1W13B cords), one KS-6278 tool, and one No. 364 tool (used to ground coin collector).

2.03 Two No. 18BH resistors (1000 ohms) or equivalent (used to simulate loop resistance).

Test A

2.04 Test cords - Two 893 cords, each 6 feet long, and each equipped with two No. 360A tools (1W13B cords), one No. 639A tool, and one KS-6278 tool (used to connect tip and ring of coin collector to relay contacts).

2.05 One No. 651A tool to facilitate connection to relay contacts.

2.06 Master Test Frame

Master test control circuit (SD-25800-01)

Master test frame trunk test circuit (SD-25918-01)

Master test frame jack, lamp, and key circuit (SD-25762-01)

Master test frame telephone, key, and lamp circuit (SD-25744-01)

Master test frame voltmeter test circuit (SD-25792-01)

Test B

2.07 Test cords - Two 893 cords, each 6 feet long, and each equipped with two No. 360A tools (1W13B cords), one No. 419 tool, and one KS-6278 tool (used to connect tip and ring of coin collector to tip and ring punchings on terminal strip of the unit).

2.08 Master test frame telephone, key, and lamp circuit (SD-25744-01).

3. METHOD

STEP	ACTION	VERIFICATION
	A. Terminating Call	
1	At relay rack frame - Connect tip and ring leads of coin collector, each through 1000-ohm resistor, to fixed contacts 10 and 6, respectively, of R relay	

STEP	ACTION	VERIFICATION
2	Connect ground lead of coin collector to ground terminal on relay rack frame	
3	Insulate fixed contacts 6 and 8 of CA relay	
4	At master test frame - Operate IC (OA, OB, OAT, or OBT) key or IC (OAT or OBT) and E keys for office designation	
5	Operate A-, B-, C-, D- keys for line number	
6	Operate MTO-1 key to select special marker	
7	Operate T, LT keys	
8	Operate ST key momentarily	LT, MRL lamps lighted S lamps lighted at voltmeter test panel
9	Operate ± key momentarily	At relay rack frame - Ringing heard momentarily
10	At relay rack frame - Remove receiver from coin collector switchhook	At master test frame - S lamp extinguished at voltmeter test panel
11	Talk over connection established from relay rack frame to master test frame	Transmission satisfactory
12	At master test frame - Restore all keys	
13	Operate RL key momentarily	All lamps extinguished
14	At relay rack frame - Remove test connections from R relay contacts	
15	Remove insulators from CA relay contacts	

B. Originating Call

1	At relay rack frame - Connect tip and ring leads of coin collector, each through 1000-ohm resistor, to terminals 58 and 48, respectively, on unit	
2	Connect ground lead of coin collector to ground terminal on relay rack frame	
3	Remove receiver from coin collector switchhook and deposit coin	Dial tone heard
4	Dial central office official number	At master test frame - TRK or TL lamp lighted or flashing At relay rack frame - Ringing heard

STEP	ACTION	VERIFICATION
5	Replace receiver on coin collector switchhook	Coin returned
6	Repeat Steps 3 and 4	
7	At master test frame - Operate TRK or TL key to establish charge condition	TRK or TL lamp extinguished or steadily lighted
8	In 6 to 8 seconds - Restore TRK or TL key	
9	At relay rack frame - Replace receiver on coin collector switchhook	Coin collected
10	Remove test connections	