

COIN SUPERVISORY RELEASE CIRCUIT SD-25859-01

TESTS USING MASTER TEST FRAME

NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes methods for testing the coin supervisory release circuit SD-25859-01, in a No. 5 crossbar office using the MTF, when operator switchboards *are*, or *are not*, provided.

1.02 This section is reissued for the following reasons:

- (a) To revise all test information to include references to Electronic Translation System (ETS).
- (b) To change 1.01.
- (c) To revise Tests A and B for use either with operator boards, or announcement, provided.
- (d) To add paragraphs 1.11, through 1.13.

Since this is a general revision, arrows ordinarily used to show changes have been omitted.

This reissue does not affect Equipment Test Lists.

1.03 The tests covered are:

A. Cancellation of Coin Present Tests Before Coin Collection: This test checks that the coin supervisory circuit test for coin present before coin collection is canceled by the coin supervisory release circuit for a minimum of 7 minutes and a maximum of 11 minutes 45 seconds after a coin supervisory all-busy condition is encountered. When the office is equipped with wire-spring-relay type coin trunks, these functions are delayed 3 to 6 seconds. It also checks that a coin supervisory all-busy condition is indicated at the master test frame (MTF) and at the switchboard. A check is also made for a 3- to 6-second alarm delay

after the onset of a coin supervisory all-busy condition.

B. Cancellation Period for Test of Coin Present on Overtime Deposit: This test checks that the coin supervisory circuit test for an overtime deposit is canceled by the coin supervisory release circuit for a minimum of 2-1/2 minutes and a maximum of 3-1/2 minutes after a coin supervisory all-busy condition occurs. When wire-spring-relay type coin trunks are part of the trunk group, the all-busy condition must continue from 3 to 6 seconds.

1.04 These tests require actions and verifications at the MTF, coin supervisory circuits, and switchboard.

1.05 For Tests A and B, the traffic department should be notified before starting and after completing these tests, so that any signals caused by performing the tests can be disregarded.

1.06 Space is provided in Test A and B to enter the number of minutes which must elapse between the operation of the ANS key and subsequent actions. In all cases, this interval is either the *initial timing period* or the *initial timing period less 30 seconds* as established for the local area.

1.07 Space is provided in Test A to enter the number of minutes which must elapse between the restoration of the MB keys in Step 15 and the operation of the ANS key (Step 19). This interval plus the initial timing period for a particular area should equal 7-1/2 minutes. (See Fig. 1.)

1.08 Tests of the coin supervisory release circuit with individual coin supervisory circuits are

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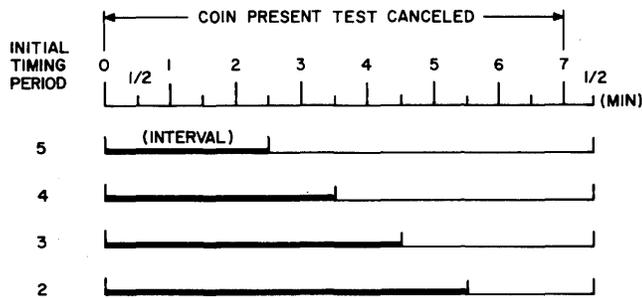


Fig. 1—Timing Chart

included in the load control tests of Section 218-201-501 covering coin supervisory circuits.

1.09 Lettered Steps: A letter a, b, c, etc, added to a step number in Part 3 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.

1.10 The manner of selecting some circuits and test conditions at the MTF and its associated circuits varies depending on the apparatus options furnished with these circuits. Therefore, where variable means of selection are provided, precise instructions for the selection of circuits and test conditions are not given. Precise instructions for the use of these variable means are given in Section 218-106-301.

1.11 When the office is arranged for ETS, the distributors and scanner associated with the marker and trunk used in the test call must be in service or in a ***maintenance-busy condition—not in an out-of-service*** condition. To change a scanner or distributor from an ***out-of-service*** to a ***maintenance-busy*** condition, use the procedure given in the following section for the office arrangement.

218-799-701—Taking ETS Equipment Out-of-Service.

1.12 When the trunk under test is arranged for ETS, the first completed test call from the MTF will cause the TST bit to be set in the trunk register associated with the selected trunk, enabling trunk scanning to be repeated on the FT lamp at the MTF trunk test circuit. As long as the TST bit is set in the trunk register, scanning will continue to be repeated on the lamp, even on service calls. The TST bit will remain set in the trunk register until (1) a test call is made from the MTF to another trunk, or (2) the command ***STOP:TRK TST*** is entered at the maintenance TTY.

1.13 On issue 76D of SD-25800-01 a group of 18 “class of test” lamps was replaced by a single “start test” lamp designated STT. Since the designation given to the lamp is not specific, the lamp will not be called out in the section, as well as the 18 discontinued lamps, DT, ORIG, ITDO, ITNP, OGT, INC, OR, SDR, IR, MISC, IAO, MLV, LT, IMS, PTT, TVT, ATNT, and IMT.

1.14 The location statement, At MTF—, is used to refer to all apparatus located on the four basic bays of the MTF.

2. APPARATUS

All Tests

- 2.01** Master test control circuit, SD-25800-01.
- 2.02** Trunk test circuit, SD-25918-01.
- 2.03** MTF telephone, key, and lamp circuit, SD-25744-01.
- 2.04** MTF miscellaneous circuit, SD-25574-01.
- 2.05** Head telephone set.
- 2.06** KS-3008 stopwatch or equivalent.

3. PREPARATION

STEP	ACTION	VERIFICATION
All Tests		
	<i>Note:</i> Refer to 1.09 through 1.14	
1	Select from office records an intraoffice (IAO) trunk arranged for coin timing with access to coin supervisory link group served by release circuit.	
2	At relay rack frame— Operate make-busy switch to MB on trunk used in test.	
3a	If coin supervisory equipment is not located near MTF— At coin supervisory frame— Plug head telephone set into TEL jack.	
4	At MTF— Select A through C digits to direct call to route requiring coin supervision.	
5	Select class of service.	
6	Select IAO trunk determined in Step 1.	
7b	If trunk selected is in an allotted group— Operate GPA/GPB key as required.	
8	Select IAO class of test.	
9	Select route advance 0.	
10	Select marker.	
11	Select ringing combination 1.	
12	Operate NTFS, NTTS, TTL keys.	
13c	If ETS provided— Operate PCS, PTS keys.	

STEP	ACTION	VERIFICATION
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4. METHOD

STEP	ACTION	VERIFICATION
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A. Cancellation of Coin Present Tests Before Coin Collection

Note: If operator positions provided, notify operator at the switchboard that a test is in progress and to disregard coin supervisory all-busy signal until restoration is requested.

14 At coin supervisory key and lamp panel—
Operate all MB keys to ON; *start timing*.

Caution: Restore these keys as soon as possible after minor alarm sounds to minimize possibility of service interference.

After 3 to 6 seconds—
Minor alarm sounds.
White aisle pilot lamp lighted.
At MTF—
CS-AB lamp lighted.

15 At coin supervisory key and lamp panel—
Restore MB keys to OFF; *start timing*.

If all coin supervisory circuits busy alarm delay timer is not provided—
Alarm and lamp indications occur immediately.

16 At MTF—
Momentarily operate CS-AR key.

Note: If operator positions provided, notify operator at the switchboard to verify all-busy indication and to operate RL key, restoring all-busy indication.

Minor alarm silenced.
White aisle pilot lamp extinguished.
CS-AB lamp extinguished.
CS-CT lamp lighted.

Note: The CS-CT lamp remains lighted for the balance of the period that the coin supervisory circuit test for coin present before coin collection is canceled.

17 Operate CN, TLK keys.

18 Momentarily operate ST key.

AS, TS lamps lighted.
R- lamp flashes.
If ETS provided—
FT lamp lighted.

19 Operate ANS key _ minutes after restoration of MB keys in Step 15. (Refer to 1.07.)

R- lamp extinguished.

20 Restore CN key.

Approximately 7 minutes after restoration of MB keys—
If operator positions are provided—
Operator does not challenge.
Approximately 7-1/2 minutes after restoration of MB keys—
If operator positions are provided—
At operator position—

STEP	ACTION	VERIFICATION
		OM lamp lighted. Operator requests overtime deposit. If operator positions are <i>not</i> provided— At MTF— Announcement is heard requesting overtime deposit.
21d	If operator positions provided— Advise operator that this is a test call.	
22	Operate CN key.	If operator positions are provided— At operator position— Coin present indication received. If operator positions are <i>not</i> provided— At MTF— CC lamp momentarily lighted. CND lamp lighted.
23d	If operator positions provided— Request operator to disconnect.	
24	Restore CN, TLK, ANS keys.	
25	Momentarily operate RL key.	All lamps extinguished.
26	Operate CN, TLK keys.	
27	Momentarily operate ST key.	AS, TS lamps lighted. R- lamp flashes. If ETS provided— FT lamp lighted.
28	Operate ANS key; <i>start timing</i> .	R- lamp extinguished.
29	Restore CN key.	One-half minute before end of initial timing period, _ minute (1.06)— If operator positions provided— Operator challenges. If operator positions <i>not</i> provided— Announcement is heard challenging line.
30d	If operator positions provided— Advise operator that this is a test call.	
31	Operate CN key.	If operator positions provided— At operator position— Coin present indication received. If operator positions are not provided— CC lamp momentarily lighted. CND lamp lighted.

SECTION 218-202-501

STEP	ACTION	VERIFICATION
32	At MTF— Request operator to disconnect.	
33	Restore CN, TLK keys.	
34	Momentarily operate RL key.	All lamps extinguished.
35	Repeat test for each coin supervisory group served by release circuits.	
36	Restore all keys and switches not required in next test.	
37	At relay rack frame— Restore make-busy switch to normal.	
B. Cancellation Period for Test of Coin Present on Overtime Deposit		
14	Operate CN, TLK keys.	
15	Momentarily operate ST key.	AS, TS lamps lighted. R- lamp flashes. If ETS provided— FT lamp lighted.
16	Operate ANS key; <i>start timing</i> .	R- lamp extinguished. High tone heard.
17	At coin supervisory key and lamp panel— Approximately 2 minutes before end of initial timing period, _ minutes— Operate all MB keys to ON.	At MTF— Minor alarm sounds. White aisle pilot lamp lighted. CS-AB lamp lighted.
	Caution: Restore these keys as soon as possible after minor alarm sounds to minimize possibility of service interference.	Note 1: When office is equipped with wire-spring-relay type coin trunks, this verification will be delayed 3 to 6 seconds.
		Note 2: Verification of CS-AB lamp lighted may be made after restoration of MB keys in Step 18.
18	At coin supervisory key and lamp panel— Restore MB keys to OFF.	
19	At MTF— Momentarily operate CS-AR key.	Minor alarm silenced. White aisle pilot lamp extinguished. CS-AB lamp extinguished. CS-CT lamp lighted.
20	At end of initial timing period, _ minutes— Listen for approximately 1/2 minute.	If operator positions are provided— Operator does not challenge.

STEP	ACTION	VERIFICATION
		If operator positions are <i>not</i> provided— Announcement not started.
21	Restore CN key.	If operator positions are provided— At operator position at end of overtime period— OM lamp lighted. Operator requests overtime deposit. If operator positions are <i>not</i> provided Announcement is heard requesting overtime deposit.
22d	If operator positions are provided— At MTF— Advise operator that this is a test call.	
23	Operate CN key.	If operator positions are provided— At operator position— Coin present indication received. If operator positions are not provided— At MTF— CC lamp momentarily lighted CND lamp lighted.
24	At MTF— Request operator to disconnect.	
25	Restore CN, TLK, ANS keys.	
26	Momentarily operate RL key.	All lamps extinguished.
27	Repeat test for each coin supervisory group served by release circuit.	
28	Restore all keys and switches.	
29	At relay rack frame— Restore make-busy switch to normal.	

