

TRAFFIC REGISTERS
FOR ACCESS GROUP CONTROLLER SD-27748-01
TESTS
NO. 5 CROSSBAR OFFICES

1. GENERAL		PAGE
<p>1.01 This section is reissued for the following reasons:</p> <p>(a) To add Tests E and F</p> <p>(b) To revise Tests A, B, C, and D</p> <p>(c) To make minor changes as required. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.</p>	<p>received from the marker on terminating CCSA calls.</p> <p><i>D. Peg Count Register for Access Group Controller Terminating Call Overflow Peg Count (TAB-Lead):</i> This test checks that the completing markers provide a count of the total number of terminating CCSA calls set to overflow due to receipt of an inhibit signal from the access group controller.</p>	<p>8</p> <p>9</p>
<p>1.02 This reissue affects Equipment Test Lists.</p>	<p><i>E. Peg Count Register for Total Originating Attempts (OST-Lead):</i> This test checks that the completing markers provide a peg count of the total number of originating CCSA call attempts.</p>	<p>9</p>
<p>1.03 The tests covered are:</p>	<p><i>A. Peg Count Register for Total Add Registrations (Originating Calls) (OGR-Lead):</i> This test checks that the access group controller provides a peg count of the total number of add indications received from the marker on originating CCSA calls.</p> <p><i>B. Peg Count Register for Access Group Controller-Originating Call Overflow Peg Count (OAB-Lead):</i> This test checks that the completing markers provide a count of the total number of originating CCSA calls set to overflow due to receipt of an inhibit signal from the access group controller.</p> <p><i>C. Peg Count Register for Total Add Registrations (Terminating Calls) (TGR-Lead):</i> This test checks that the access group controller provides a peg count of the total number of add indications</p>	<p style="text-align: center;">PAGE</p> <p>6</p> <p>7</p>
	<p><i>F. Peg Count Register for Total Terminating Attempts (TGT-Lead):</i> This test checks that the completing markers provide a peg count of the total number of terminating CCSA call attempts.</p>	<p>9</p> <p>10</p>
	<p>1.04 Table A indicates the tests requiring action and verification at more than one location.</p>	
	<p>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.</p>	

TABLE A

ACTION AND/OR VERIFICATION REQUIRED AT:	TESTS					
	A	B	C	D	E	F
Master Test Frame (MTF)	✓	✓	✓	✓	✓	✓
Marker Frame	✓	✓	✓	✓	-	-
Traffic Register Circuit	✓	✓	✓	✓	✓	✓
Access Group Controller Circuit	✓	-	✓	-	-	-

✓ As required.

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

1.07 The manner of selecting some circuits and test conditions at the master test frame (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.

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

2. APPARATUS

2.01 The apparatus required for each test is listed in Table B. The details of each item are covered in the paragraph indicated by the number in parentheses. In addition, the following apparatus may also be required.

- (a) Apparatus covered in 2.04 and 2.05 is required when a portable lamp is used to determine register operation.
- (b) Two head telephone sets are required when a portable lamp is not used.
- (c) A 32A test set is required when the master test frame is controlled from a remote point.

(d) Two 26 cords are required in offices where it is necessary to patch the traffic register to the circuit under test and to patch the traffic register to a battery supply.

TABLE B

APPARATUS	TESTS					
	A	B	C	D	E	F
Test Circuit (2.02)	1	1	1	1	1	1
322 A (make-busy) Plug	1	1	1	1	-	-
Tool (2.03)	1	-	1	-	1	1
Traffic Register Circuit	1	1	1	1	-	-
Cord (2.06)	1	-	1	-	-	-
Cord (2.07)	-	1	-	1	-	-

2.02 Master test control circuit SD-25800-01.

2.03 Blocking and insulating tools as required. Use tools and apply as covered in Section 069-020-801.

2.04 Two testing cords, W2W cords, 10 feet long, each equipped with a 310 plug and two 360-type tools (2W17C cord), two KS-6278 connecting clips, and two 108 cord tips (required when a portable test lamp is used).

2.05 38B lamp socket equipped with a 2Y lamp (required when a portable test lamp is used).

2.06 Testing cord, 893 cord, 3 feet long, equipped with two 360A tools (1W13A cord); one 639A (contact connector) tool, one 651-type (contact connector holder) tool, and one 624B (terminal connector) tool or two 639A tools and two 651-type tools (for making connections to contacts of wire-spring-type relays).

2.07 Testing cord, 893, 6 feet long, equipped with two 360A tools (1W13B cord), one 624B tool, and one KS-6278 connecting clip.

3. PREPARATION

STEP	ACTION	VERIFICATION
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All Tests

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| 1a | If traffic registers are arranged for patching—
At traffic register circuit—
Insert cord tip of 26 patching cord into P-jack for circuit associated with register to be tested. | |
| 2a | Insert cord tip on other end of 26 patching cord into black jack associated with register to be tested (black jack is located on mounting plate with register). | |
| 3a | Insert cord tip of 26 cord into red jack on mounting plate with register to be tested. | |
| 4a | Insert cord tip on other end of 26 cord into any S- jack located at bottom of jack field. | |
| 5b | If traffic registers are arranged for patching and if battery supply for register to be tested is controlled by C- toggle switch—
At traffic register circuit—
Operate C- toggle switch to ON. | |
| 6c | If traffic registers are not arranged for patching—
Determine, from local office records, functional designation of peg count BAT key associated with register to be tested. | |
| 7c | At traffic register circuit—
Operate BAT key associated with register to be tested. | |
| 8d | If tests are to be performed without portable lamp—
Establish talking circuit between frames where test is to be performed and observations are to be made. | |
| 9e | If tests are to be performed with portable lamp—
At frame where action is to be taken—
Insert plug of 2W17C cord, equipped with two KS-6278 connecting clips, into SP jack of miscellaneous circuit. | |
| 10e | Determine, from circuit drawing of circuit associated with register to be tested, location | |

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STEP	ACTION	VERIFICATION
	of terminal on terminal strip at which common lead to traffic register circuit is connected.	
11e	Connect one lead of 2W17C cord to terminal on terminal strip determined in Step 10e.	
12e	Connect other lead of 2W17C cord to battery.	
13e	Connect leads of 38B lamp socket to leads of another 2W17C cord equipped with two KS-6278 connecting clips.	
14e	Insert plug of this 2W17C cord into any appearance of selected SP jack of miscellaneous circuit close to position where test is to be performed.	
15e	Place lamp so that it can be easily observed.	
16f	If tests are performed with portable lamp and circuit associated with register to be tested removes ground from common lead to traffic register circuit to operate register— Observe lamp when register operates.	Lamp extinguished.
17g	If tests are performed with portable lamp and circuit associated with register to be tested applies ground to common lead to traffic register circuit to operate register— Observe lamp when register operates.	Lamp lighted.
18e	If tests are to be performed with portable lamp— Observe scoring of register when using test lamp and proceed as follows: (a) For first observation of scoring of register, observe that lamp indicates proper condition on common lead and that register scores as required. (b) For subsequent observations of scoring of same register, observe lamp indications <i>only</i> .	
19	At MTF— Restore all keys and switches.	
20	Momentarily operate RL key.	
21	Set AGC switch to select access group controller for test.	

STEP	ACTION	VERIFICATION
22	Operate AGC key.	

Tests A, B, E

Note: Refer to 1.07 and 1.08.

23	Operate FS, TS, TLK keys.	
24	Select OGT class of test.	
25	Select marker.	
26	Select class of service and rate treatment associated with access group controller under test.	
27	Select A- through G- digits as required to direct call to route to which selected class of service has access.	
28	Select OR class of call with LT3 translator indication.	
29	Select trunk link frame.	
30	Select trunk.	
31h	If trunk selected is in allotted group— Operate GPA/GPB key as required.	
32	Select route advance.	

Tests C, D, F

33	Select trunk link frame.	
34	Select incoming class of call with translator indication as required.	
35	Select INC class of test.	
36	Select marker.	
37	Select A- through G- digits as required for a line associated with the access group controller under test and accessible to the incoming class selected.	

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STEP	ACTION	VERIFICATION
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4. METHOD

STEP	ACTION	VERIFICATION
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A. Peg Count Register for Total Add Registrations
(Originating Calls) (OGR- Lead)

33i If access group controller circuit is equipped with W option—
At access group controller circuit—
Connect 6 of T relay to terminal strip A, terminal 31.

34j If access group controller circuit is equipped with X option—
At access group controller circuit—
Connect 6 of T relay to 1 of ALM relay.

35 At jack, lamp, and key circuit—
Insert make-busy plug into M-MB- jack of completing marker to be used for test.

36 At marker frame—
Block nonoperated MT18 relay.

37 At MTF—
Momentarily operate ST key.

INH lamp not lighted.

Note: If INH lamp is lighted, repeat test when inhibit condition clears.

At traffic register cabinet—
Traffic register associated with OGR- lead for access group controller under test scored once.

38 At MTF—
Momentarily operate RL key.

39 At marker frame—
Remove blocking tool from MT18 relay.

40 At jack, lamp, and key circuit—
Remove make-busy plug from M-MB- jack.

41 Repeat Steps 21 through 40 for each completing marker to be tested for traffic register operation.

42 At access group controller circuit—
Remove test connection.

STEP	ACTION	VERIFICATION
43	Repeat Steps 21 through 42 for each access group controller circuit to be tested for traffic register operation.	
44	At MTF— Restore all keys and switches not required in next test.	
B. Peg Count Register for Access Group Controller Originating Call Overflow Peg Count (OAB-Lead)		
33	At jack, lamp, and key circuit— Insert make-busy plug into M-MB- jack of marker used for test.	
34	At marker frame— Connect ground to terminal strip CJ, terminal 00, AGC part, located on common equipment frame.	
35	At MTF— Operate INH key.	
36	Momentarily operate ST key.	At traffic register circuit— Traffic register associated with OAB- lead for access group controller under test scored once.
37	At MTF— Momentarily operate RL key.	
38	Repeat Steps 21 through 37 for each access group controller circuit to be tested for traffic register operation.	
39	At marker frame— Remove test connection.	
40	At jack, lamp, and key circuit— Remove make-busy plug from M-MB- jack.	
41	Repeat Steps 21 through 40 for each completing marker to be tested for traffic register operation.	
42	At MTF— Restore all keys and switches not required in next test.	

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STEP	ACTION	VERIFICATION
C. Peg Count Register for Total Add Registrations (Terminating Calls) (TGR- Lead)		
38i	If access group controller circuit is equipped with W option— At access group controller circuit— Connect 6 of T relay to terminal strip A, terminal 31.	
39j	If access group controller circuit is equipped with X option— At access group controller circuit— Connect 6 of T relay to 1 of ALM relay.	
40	At jack, lamp, and key circuit— Insert make-busy plug into M-MB- jack of completing marker to be used for test.	
41	At marker frame— Block nonoperated MT18 relay.	
42	At MTF— Momentarily operate ST key.	INH lamp not lighted. Note: If INH lamp is lighted, repeat test when inhibit condition clears. At traffic register circuit— Traffic register associated with TGR- lead for access group controller under test scored once.
43	At MTF— Momentarily operate RL key.	
44	At marker frame— Remove blocking tool from MT18 relay.	
45	At jack, lamp, and key circuit— Remove make-busy plug from M-MB- jack.	
46	Repeat Steps 21, 22, and 33 through 45 for each completing marker to be tested for traffic register operation.	
47	At access group controller circuit— Remove test connection.	
48	Repeat Steps 21, 22, and 33 through 47 for each access group controller circuit to be tested for traffic register operation.	

STEP	ACTION	VERIFICATION
49	Restore all keys and switches not required in next test.	
D. Peg Count Register for Access Group Controller Terminating Call Overflow Peg Count (TAB-Lead)		
38	At jack, lamp, and key circuit— Insert make-busy plug into M-MB- jack of marker used for test.	
39	At marker frame— Connect ground to terminal strip CJ, terminal 00, AGC part, located on common equipment frame.	
40	At MTF— Operate INH key.	
41	Momentarily operate ST key.	At traffic register circuit— Traffic register associated with TAB- lead for access group controller under test scored once.
42	At MTF— Momentarily operate RL key.	
43	Repeat Steps 21, 22, and 33 through 42 for each access group controller circuit to be tested for traffic register operation.	
44	At marker frame— Remove test connection.	
45	At jack, lamp, and key circuit— Remove make-busy plug from M-MB- jack.	
46	Repeat Steps 21, 22, and 33 through 45 for each completing marker to be tested for traffic register operation.	
47	At MTF— Restore all keys and switches not required in next test.	
E. Peg Count Register for Total Originating Attempts (OST- Lead)		
33	Momentarily operate ST key.	INH lamp not lighted.

Note: If INH lamp is lighted, repeat test when inhibit condition clears.

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STEP	ACTION	VERIFICATION
		At traffic register circuit— Traffic register associated with OST- lead for access group controller under test scored once.
34	At MTF— Momentarily operate RL key.	
35	Repeat Steps 21 through 34 for each access group controller circuit to be tested for traffic register operation.	
36	Repeat Steps 21 through 35 for each completing marker to be tested for traffic register operation.	
37	Restore all keys and switches not required in next test.	
F. Peg Count Register for Total Terminating Attempts (TGT- Lead)		
38	Momentarily operate ST key.	At traffic register circuit— Traffic register associated with TGT- lead for access group controller under test scored once.
39	At MTF— Momentarily operate RL key.	
40	Repeat Steps 21, 22, and 33 through 39 for each access group controller circuit to be tested for traffic register operation.	
41	Repeat Steps 21, 22, and 33 through 40 for each completing marker to be tested for traffic register operation.	
42	Restore all keys and switches.	