

**COIN OPERATOR ASSIST AND SPECIAL
TOLL FUNCTIONS OF ANI-D OUTGOING TRUNKS
OPERATION TESTS USING
ANI-D TEST TRUNK CIRCUIT SD-35038-01
STEP-BY-STEP OFFICES ARRANGED FOR ANI-TYPE D**

1. GENERAL

1.01 This section describes a method of testing outgoing operator assist (0-), special toll (0+), and coin trunks in step-by-step offices arranged for ANI-D, using the ANI-D test trunk circuit, SD-35038-01 (J34731A).

1.02 Whenever this section is reissued, the reasons for reissue will be listed in this paragraph. This issue affects the Equipment Test List.

1.03 The tests covered are:

A. Noncoin Trunks: This test checks the off-hook and on-hook ringback, disconnect, and far-end make-busy features of the trunk.

B. Coin Trunks Not Equipped With Multiwink Feature: This test checks the ringback, coin return, and coin collect features during both off-hook and on-hook conditions. It also checks the disconnect and far-end make-busy features of the trunk.

C. Coin Trunks Equipped With Multiwink Feature: This test checks coin trunks equipped with multiwink receivers for operator attached and operator released features. It also checks ringback, coin return, and coin collect features during both off-hook and on-hook conditions as well as the disconnect and far-end make-busy features of the trunk. Multiwink operation requires a series of from one to five

winks to initiate operator released, operator attached, coin collect, coin return, and ringback, respectively.

1.04 The test trunk circuit is housed in a portable case and access to a trunk is through a jack and cord arrangement. Test keys are depress-to-operate and depress-to-release type. Lamps are an integral part of the test keys and are lighted when the keys are operated. Other lamps indicate the type of trunk being tested and the verification of an action during a test.

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.

2. APPARATUS

All Tests

2.01 ANI-D test trunk circuit SD-35038-01.

2.02 Four patching cords P3E, 10 feet long, equipped with 310 plugs (3P6F cord).

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

3. PREPARATION

All Tests

STEP	ACTION	VERIFICATION
1	Connect -48 volt battery and ground from test set to -48 volt jack on trunk frame. Use patching cord P3E, 10 feet long, equipped with two 310 plugs, with red shells, (3P6F cord).	LOOP lamp lighted.
2a	If trunk is E&M signaling— Operate E&M key.	LOOP lamp extinguished. E&M lamp lighted.
3	Check trunk for idle condition.	TB lamp not lighted.
4	Connect patching cords between test set jacks and trunk jacks as shown in Table A.	Lamp lighted as shown in Table A.

TABLE A

TRUNK			PATCHING CORD (SEE NOTE)	TEST SET	
SD-	SIGNALING	JACK		JACK	LAMP
35021-01 NON COIN	LOOP	TO	GREEN	TO	NCN
35022-01 NON COIN	E&M	TT	BLACK	TT	
35023-01 COIN	LOOP	TOC	GREEN	TOC	CN
		TT	BLACK	TT	
35024-01 COIN AND NON COIN	E&M	TOC	GREEN	TOC	
		TT	BLACK	TT	
		TT1	GRAY	TT1	

NOTE: Use patching cord P3E, 10 feet long, equipped with 310 plugs (3P6F cord). Color refers to shells on plugs. Insert plug into trunk TO or TOC jack to make trunk busy before inserting plug into trunk test jack TT.

4. METHOD

STEP	ACTION	VERIFICATION
A. Noncoin Trunks		
Off-Hook Ringback		
5	Operate AOP key.	AOP and SL lamps lighted. Trunk TB lamp lighted.
6	Operate CS key.	CS lamp lighted.
7	Operate RBT key.	RBT and RB lamps lighted. If E&M key is operated— In approximately 2 seconds— RB lamp extinguished.
8	Release RBT key.	RBT lamp extinguished. If E&M key is normal— RB lamp extinguished.
On-Hook Ringback		
9	Release AOP key.	AOP lamp extinguished.
10b	If trunk serves only single party lines— Repeat Steps 7 and 8.	Same as Steps 7 and 8.
11c	If trunk serves party lines— Operate RBT key.	RBT lamp lighted. RB lamp not lighted.
12c	Release RBT key.	RBT lamp extinguished.
13	Operate AOP key.	AOP lamp lighted.
Disconnect and Winkoff		
14	Release CS key.	CS and SL lamps extinguished.
15	Release AOP key.	AOP lamp extinguished. SL lamp momentarily lighted. Trunk TB lamp extinguished.
Far-End Make-Busy		
16	Operate CS key.	CS and SL lamps lighted.
17	Release CS key.	CS and SL lamps extinguished.
18	Remove patching cords from trunk TO and TT jacks.	NCN lamp extinguished.

STEP	ACTION	VERIFICATION
19a	If trunk is E&M signaling— Release E&M key.	E&M lamp extinguished. LOOP lamp lighted.
20d	If another trunk of this type is to be tested— Repeat Steps 2a through 19a.	
21e	If no other trunk is to be tested— Remove patching cord between test set and -48 volt jack on trunk frame.	LOOP lamp extinguished.
22	Remove patching cords from test set TO and TT jacks.	

B. Coin Trunks Not Equipped With Multiwink Feature

Initial Coin Return

5	Operate AOP key.	AOP and SL lamps lighted. Trunk TB lamp lighted.
6	Operate CS key.	CS lamp lighted. CR lamp momentarily lighted (indicates initial coin return).

Coin Return, Off-Hook

7	Operate CRT key.	CRT and CR lamps lighted. If E&M key is operated— In approximately 1/2 second— CR lamp extinguished.
8	Release CRT key.	CRT lamp extinguished. If E&M key is normal— CR lamp extinguished.

Coin Return, On-Hook

9	Release AOP key.	AOP lamp extinguished.
10	Repeat Steps 7 and 8.	Same as Steps 7 and 8.
11	Operate AOP key.	AOP lamp lighted.

Coin Collect, Off-Hook

12	Operate CCT key.	CCT and CC lamps lighted. If E&M key is operated— In approximately 1/2 second— CC lamp extinguished.
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STEP	ACTION	VERIFICATION
13	Release CCT key.	CCT lamp extinguished. If E&M key is normal— CC lamp extinguished.
Coin Collect, On-Hook		
14	Release AOP key.	AOP lamp extinguished.
15	Repeat Steps 12 and 13.	Same as Steps 12 and 13.
16	Operate AOP key.	AOP lamp lighted.
Ringback, Off-Hook		
17	Operate RBT key.	RBT and RB lamps lighted. In approximately 2 seconds— RB lamp extinguished.
18	Restore RBT key.	RBT lamp extinguished.
Ringback, On-Hook		
19	Release AOP key.	AOP lamp extinguished.
20	Repeat Steps 17 and 18.	Same as Steps 17 and 18.
21	Operate AOP key.	AOP lamp lighted.
Disconnect and Winkoff		
22	Release CS key.	CS and SL lamps extinguished.
23	Release AOP key.	AOP lamp extinguished. SL lamp momentarily lighted. Trunk TB lamp extinguished.
Far-End Make-Busy		
24	Operate CS key.	CS and SL lamps lighted.
25	Release CS key.	CS and SL lamps extinguished.
26	Remove patching cords from trunk TOC, TT, and TT1 jacks.	CN lamp extinguished.
27a	If trunk is E&M signaling— Release E&M key.	E&M lamp extinguished. LOOP lamp lighted.
28b	If another trunk of this type is to be tested— Repeat Steps 2a through 27a.	

STEP	ACTION	VERIFICATION
29c	If no other trunk is to be tested— Remove patching cords between test set and -48 volt jack on trunk frame and from test set TOC, TT, and TT1 jacks.	LOOP lamp extinguished.
C. Coin Trunks Equipped With Multiwink Feature		
5	Operate MW key.	MW lamp lighted.
6	Operate AOP key.	AOP and SL lamps lighted. Trunk TB lamp lighted.
Operator Attached		
7	Operate CS key.	CS and OA lamps lighted. CR lamp momentarily lighted (indicates initial coin return).
8	Operate ORT key.	ORT lamp lighted. OA lamp extinguished.
9	Release ORT key.	ORT lamp extinguished.
10	Operate OAT key.	OAT and OA lamps lighted.
11	Release OAT key.	OAT lamp extinguished.
Operator Released		
12	Operate ORT key.	ORT lamp lighted. OA lamp extinguished.
13	Release ORT key.	ORT lamp extinguished.
Coin Collect, Off-Hook		
14	Operate CCT key.	CCT lamp lighted. CC lamp momentarily lighted.
15	Release CCT key.	CCT lamp extinguished.
Coin Collect, On-Hook		
16	Release AOP key.	AOP lamp extinguished.
17	Repeat Steps 14 and 15.	Same as Steps 14 and 15.
18	Operate AOP key.	AOP lamp lighted.

STEP	ACTION	VERIFICATION
Coin Return, Off-Hook		
19	Operate CRT key.	CRT lamp lighted. CR lamp momentarily lighted.
20	Release CRT key.	CRT lamp extinguished.
Coin Return, On-Hook		
21	Release AOP key.	AOP lamp extinguished.
22	Repeat Steps 19 and 20.	Same as Steps 19 and 20.
23	Operate AOP key.	AOP lamp lighted.
Ringback, Off-Hook		
24	Operate RBT key.	RBT and RB lamps lighted. In approximately 2 seconds— RB lamp extinguished.
25	Release RBT key.	RBT lamp extinguished.
Ringback, On-Hook		
26	Release AOP key.	AOP lamp extinguished.
27	Repeat Steps 24 and 25.	Same as Steps 24 and 25.
28	Operate AOP key.	AOP lamp lighted.
Disconnect and Winkoff		
29	Release CS key.	CS and SL lamps extinguished.
30	Release AOP key.	AOP lamp extinguished. SL lamp momentarily lighted. Trunk TB lamp extinguished.
Far-End Make-Busy		
31	Operate CS key.	CS and SL lamps lighted.
32	Release CS key.	CS and SL lamps extinguished.
33a	If trunk is E&M signaling— Release E&M key.	E&M lamp extinguished. LOOP lamp lighted.
34	Remove patching cords from trunk TOC, TT, and TT1 jacks.	CN lamp extinguished.

STEP	ACTION	VERIFICATION
35b	If another trunk of this type is to be tested— Repeat Steps 2a through 34.	
36c	If no further tests are to be made— Restore MW key.	MW lamp extinguished.
37	Remove patching cords between test set and -48 volt jack on test frame and from test set TOC, TT, and TT1 jacks.	LOOP lamp extinguished.