

ATTENDANT TRUNK CIRCUITS

756A PBX

1. GENERAL

1.01 This section describes a method of testing the operating features of the attendant trunk circuit in the 756A PBX.

1.02 This section is reissued to divide the previous tests (A to C) of the 756A PBX attendant trunk circuits into new tests (A to I). The new tests are designed to permit checking the features of the circuits on a call-type basis with various types of attendant equipment. Test J has been added to check the operation of the trunks when the PBX is operated without an attendant. Mounting plate location of apparatus has also been included to aid in performing the tests. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 The tests covered are:

A. Incoming Call (Dial "0") to Cordless Position: The following features are checked. (1) Seizure of trunk. (2) Answering. (3) Trunk busied to marker after seizure. (4) Holding. (5) Trunk busied to marker during hold. (6) Re-entry. (7) Disconnection.

B. Interception With Cordless Position: The following features are checked. (1) Seizure of trunk. (2) Answering. (3) Trunk busied to marker after seizure. (4) Holding. (5) Trunk busied to marker during hold. (6) Re-entry. (7) Disconnection.

C. Attendant Originated Call: The following features are checked. (1) Trunk seizure. (2) Trunk busied to marker after seizure. (3) Holding. (4) Trunk busied to marker during hold. (5) Re-entry. (6) Disconnection.

D. Incoming Call (Dial "0") to Cord Switchboard: The following features are checked. (1) Trunk seizure. (2) Answering. (3) Trunk busied to marker after seizure. (4) Disconnection.

E. Interception With Cord Switchboard: The following features are checked. (1) Seizure of trunk. (2) Answering. (3) Trunk busied to marker after seizure. (4) Disconnection.

F. Incoming Call (Dial "0") to 6-button Key Telephone Set: The following features are checked. (1) Seizure of trunk. (2) Answering. (3) Trunk busied to marker after seizure. (4) Holding. (5) Trunk busied to marker during hold. (6) Re-entry. (7) Disconnection.

G. Interception With 6-button Key Telephone Set: The following features are checked. (1) Seizure of trunk. (2) Answering. (3) Trunk busied to marker after seizure. (4) Holding. (5) Trunk busied to marker during hold. (6) Re-entry. (7) Disconnection.

H. Kickoff With Cordless Position: The following features are checked. (1) Seizure of trunk. (2) Answering. (3) Holding. (4) Seizure of central office trunk. (5) Holding of central office trunk. (6) Dial back. (7) Kickoff.

I. Kickoff With 6-button Key Telephone Set (DIAL BACK Key Required): The following features are checked. (1) Seizure of trunk. (2) Answering. (3) Holding. (4) Seizure of central office trunk. (5) Holding of central office trunk. (6) Dial back. (7) Kickoff.

J. Attendant Trunk Operation Without an Attendant: This test checks the operation of the attendant trunk when the PBX is used without an attendant.

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1.04 To direct a call to a specific attendant trunk circuit for test, it requires that all attendant trunks other than the one selected for test be made busy. This will result in the inability of the PBX system to establish station or trunk calls to the attendant or intercept calls for the time required to make Tests A to I.

1.05 Relay mounting plate location is intended to aid in performing the test. The information is enclosed in parentheses following the relay designation. For example, B (AA) relay indicates that B relay is located on AA mounting plate. (See Step 1, Test A.)

1.06 Tests A to I require action and verification at one or more stations.

1.07 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 condi-

tion 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

Tests A to E and H

2.01 Head telephone set or handset associated with attendant equipment.

All Tests

2.02 Blocking and insulating tools, as required. Use tools and apply as covered in Section B502.031.

3. METHOD

STEP	ACTION	VERIFICATION
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A. Incoming Call (Dial "0") to Cordless Position

1 In slide 5 —
Make busy all attendant trunks except trunk required for test by (1) insulating 11M contact of B (AA, Y, or Z) relay; (2) blocking operated B (AA, Y, or Z) relay.

2a If cord switchboard is provided —
Operate battery cutoff key to OFF.

3 At first attendant cordless equipment —
Insert plug of head telephone set or handset into telephone jacks.

4 Operate AUD SIG key to ON.

5 At PBX station —
Dial "0".

At PBX station —
Audible ringing tone heard.
At first attendant cordless equipment —
Station lamp flashes at 120 ipm.
Audible signal sounds.

STEP	ACTION	VERIFICATION
6	At attendant cordless equipment — Operate attendant trunk PICKUP key associated with 120-ipm flashing station lamp.	Audible signal silenced. Station lamp lighted steadily. At PBX station — Audible ringing tone removed. Conversation with attendant satisfactory.
7	At second PBX station — Dial "0".	At second PBX station — Busy tone heard.
8	Replace handset on switchhook.	
9	Remove handset from switchhook, wait for time-out of register.	Busy tone heard.
10	Replace handset on switchhook.	
11	At first attendant cordless equipment — Request first station to remain off-hook.	
12	Operate HOLD key.	At first attendant cordless equipment — Station lamp flashes at 30 ipm.
13	Operate RELEASE key.	PICKUP key releases.
14	At second PBX station — Repeat Steps 7 to 10, inclusive.	At second PBX station — Same as Steps 7 to 10, inclusive.
15	At first attendant cordless equipment — Operate PICKUP key associated with 30-ipm flashing station lamp of attendant trunk.	At first attendant cordless equipment — Station lamp lighted steadily. Conversation with PBX station satisfactory.
16	At first PBX station — Replace handset on switchhook.	At first attendant cordless equipment — Station lamp remains lighted steadily.
17	Remove handset from switchhook.	Station lamp remains lighted steadily.
18	Speak into transmitter.	Conversation with attendant satisfactory.
19	At first attendant cordless equipment — Operate RELEASE key.	PICKUP key released — Station lamp flashes at 30 ipm.
20	At first PBX station — Replace handset on switchhook.	Station lamp extinguished.
21	In slide 5 — Remove insulators from 11M contact of B relays; remove blocking tools from B (AA, Y, Z) relays.	

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STEP	ACTION	VERIFICATION
B. Interception With Cordless Position		
1	In slide 5 — Make busy all attendant trunks except trunk required for test by (1) insulating 11M contact of B (AA, Y, or Z) relay; (2) blocking operated B (AA, Y, or Z) relay.	
2a	If cord switchboard is provided — Operate battery cutoff key to OFF.	
3	At first attendant cordless equipment — Insert plug of head telephone set or handset into telephone jacks.	
4	Operate AUD SIG key to ON.	
5	At first PBX station — Remove handset from switchhook, wait for time-out of register.	At first PBX station — Audible ringing tone heard. At first attendant cordless equipment — Audible signal sounds continuously. Station lamp flashes at 120 ipm. Trunk lamp flashes at 120 ipm.
6	At first attendant cordless equipment — Operate PICKUP key associated with 120-ipm flashing station and trunk lamps.	Audible signal silenced. Station lamp lighted steadily. Trunk lamp lighted steadily. Momentary burst of low tone heard. At PBX station — Audible ringing tone removed. Momentary burst of low tone heard. Conversation with attendant satisfactory.
7	At second PBX station — Remove handset from switchhook, wait for time-out of register.	At second PBX station — Busy tone heard.
8	Replace handset on switchhook.	
9	Remove handset from switchhook, dial "0".	Busy tone heard.
10	Replace handset on switchhook.	
11	At first attendant cordless equipment — Request first PBX station to remain off-hook.	
12	Operate HOLD key.	At first attendant cordless equipment — Station lamp flashes at 30 ipm.
13	Operate RELEASE key.	PICKUP key releases.

STEP	ACTION	VERIFICATION
14	At second PBX station — Repeat Steps 7 to 10, inclusive.	At second PBX station — Same as Steps 7 to 10, inclusive.
15	At first attendant cordless equipment — Operate PICKUP key associated with 30-ipm flashing station lamp.	At first attendant cordless equipment — Station lamp lighted steadily. Conversation with PBX station satisfactory.
16	At first PBX station — Replace handset on switchhook.	At first attendant cordless equipment — Station lamp remains lighted steadily.
17	Remove handset from switchhook.	Station lamp remains lighted steadily. Conversation with PBX station satisfactory.
18	At first attendant cordless equipment — Operate RELEASE key.	PICKUP key released. Station lamp flashes at 30 ipm.
19	At first PBX station — Replace handset on switchhook.	Station lamp extinguished.
20	In slide 5 — Remove insulators from 11M contact of B relays; remove blocking tools from B (AA, Y, Z) relays.	

C. Attendant Originated Call

1	In slide 5 — Make busy all attendant trunks except trunk required for test by (1) insulating 11M con- tact of B (AA, Y, or Z) relay; (2) blocking operated B (AA, Y, or Z) relay.	
2a	If cord switchboard is provided — Operate battery cutoff key to OFF.	
3	At first attendant cordless equipment — Insert plug of head telephone set or handset into telephone jacks.	
4	Operate AUD SIG key to ON.	
5	Operate PICKUP key associated with trunk under test.	At first attendant cordless equipment — Trunk lamp lights steadily. PBX dial tone heard.
6	Dial PBX station.	Audible ringing tone heard.
7	When PBX station answers.	Audible ringing tone removed. Conversation with PBX station satisfactory.

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STEP	ACTION	VERIFICATION
8	At second PBX station — Dial "0".	At second PBX station — Busy tone heard.
9	Replace handset on switchhook.	
10	Remove handset from switchhook, wait for time-out of register.	Busy tone heard.
11	Replace handset on switchhook.	
12	At first attendant cordless equipment — Request PBX first station to remain off-hook.	
13	Operate HOLD key.	At first attendant cordless equipment — Station lamp flashes at 30 ipm.
14	Operate RELEASE key.	PICKUP key releases.
15	At second PBX station — Repeat Steps 8 to 11, inclusive.	At second PBX station — Same as Steps 8 to 11, inclusive.
16	At first attendant cordless equipment — Operate PICKUP key associated with 30-ipm flashing station lamp.	At first attendant cordless equipment — Station lamp lights steadily. Conversation with PBX station satisfactory.
17	At PBX first station — Replace handset on switchhook.	At first attendant cordless equipment — Station lamp remains lighted steadily.
18	Remove handset from switchhook.	Station lamps remain lighted steadily. Conversation with PBX station satisfactory.
19	At first attendant cordless equipment — Operate release key.	PICKUP key released. Station lamp flashes at 30 ipm.
20	At PBX station — Replace handset on switchhook.	Station lamp extinguished.
21	In slide 5 — Remove insulators from 11M contact of B relays; remove blocking tools from B (AA, Y, Z) relays.	

D. Incoming Call (Dial "0") to Cord Switchboard

- 1 In slide 5 —
Make busy all attendant trunks except trunk
required for test by (1) insulating 11M con-
tact of B (AA, Y, or Z) relay; (2) blocking
operated B (AA, Y, or Z) relay.

STEP	ACTION	VERIFICATION
2a	It attendant cordless equipment is provided — Remove plug of head telephone set or handset from telephone jacks.	
3	At cord switchboard — Operate battery cutoff key to ON.	
4	Operate BUZZER key to ON.	
5	At first PBX station — Dial "0".	At first PBX station — Audible ringing tone heard. At cord switchboard — Busy lamp flashes at 120 ipm. Audible signal sounds.
6	At cord switchboard — Insert station (RT) cord into jack associated with flashing busy lamp.	Busy lamp lights steadily. Audible signal silenced.
7	Operate TALK and DIAL key associated with cord in attendant trunk jack.	Conversation with PBX station satisfactory.
8	At second PBX station — Dial "0".	At second PBX station — Busy tone heard.
9	Replace handset on switchhook.	
10	Remove handset from switchhook, wait until time-out of register.	Busy tone heard.
11	Replace handset on switchhook.	
12	At first PBX station — Replace handset on switchhook.	At cord switchboard — Busy lamp remains lighted steadily.
13	Remove handset from switchhook.	At first PBX station — Conversation with cord switchboard satisfactory.
14	At cord switchboard — Remove cord from jack of attendant trunk.	At cord switchboard — Busy lamp remains lighted steadily.
15	At first PBX station — Replace handset on switchhook.	At cord switchboard — Busy lamp extinguished.
16	In slide 5 — Remove insulator from 11M contact of B (AA, Y, or Z) relay; remove blocking tools from B (AA, Y, or Z) relays.	

STEP	ACTION	VERIFICATION
E. Interception With Cord Switchboard		
1	In slide 5 — Make busy all attendant trunks except trunk required for test by (1) insulating 11M contact of B (AA, Y, or Z) relay; (2) blocking operated B, (AA, Y, or Z) relay.	
2a	If attendant cordless equipment is provided — Remove plug of head telephone set or handset from telephone jacks.	
3	At cord switchboard — Operate battery cutoff key to ON.	
4	Operate BUZZER key to ON.	
5	At first PBX station — Remove handset from switchhook, wait for time-out of register.	At first PBX station — Audible ringing tone heard. At cord switchboard — Audible signal sounds. Trunk lamp flashes at 120 ipm. Busy lamp flashes at 120 ipm.
6	At cord switchboard — Insert station (RT) cord into jack associated with 120-ipm flashing trunk and busy lamps.	Audible signal silenced. Trunk lamp extinguished. Busy lamp lighted steadily.
7	Operate TALK and DIAL key associated with cord in attendant trunk jack.	Conversation with PBX extension satisfactory.
8	At second PBX station — Dial "0".	At second PBX station — Busy tone heard.
9	Replace handset on switchhook.	
10	Remove handset from switchhook, wait for time-out of register.	Busy tone heard.
11	Replace handset on switchhook.	
12	At first PBX station — Replace handset on switchhook.	At cord switchboard — Busy lamp remains lighted steadily.
13	Remove handset from switchhook.	At first PBX station — Conversation with cord switchboard satisfactory.
14	At cord switchboard — Remove cord from jack of attendant trunk.	At cord switchboard — Busy lamp remains lighted steadily.

STEP	ACTION	VERIFICATION
15	At first PBX station — Replace handset on switchhook.	At cord switchboard — Busy lamp extinguished.
16	In slide 5 — Remove insulator from 11M contact of B (AA, Y, or Z) relay; remove blocking tools from B (AA, Y, or Z) relay.	
F. Incoming Call (Dial "0") to 6-button Key Telephone Set		
1	In slide 5 — Make busy all attendant trunks except trunk required for test by (1) insulating 11M contact of B (AA, Y, or Z) relay; (2) blocking operated B (AA, Y, or Z) relay.	
2a	If cord switchboard is provided — Operate battery cutoff key to OFF.	
3b	If first attendant cordless equipment is provided — Remove plug of head telephone set or handset from telephone jacks.	
4c	If second attendant cordless equipment is provided — Remove plug of head telephone set or handset from telephone jacks.	
5	At first PBX station — Dial "0".	At first PBX station — Audible ringing tone heard. At 6-button key telephone set — Audible signal sounds. Line lamp flashes at 120 ipm.
6	At 6-button key telephone set — Operate PICKUP key associated with 120-ipm flashing line lamp.	
7	Remove handset from switchhook.	Line lamp lighted steadily. At first PBX station — Audible ringing tone removed. Conversation with 6-button key telephone set satisfactory.
8	At second PBX station — Dial "0".	At second PBX station — Busy tone heard.

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STEP	ACTION	VERIFICATION
9	Replace handset on switchhook.	
10	Remove handset from switchhook, wait for time-out of register.	Busy tone heard.
11	Replace handset on switchhook.	
12	At 6-button key telephone set — Request first PBX station to remain off-hook.	
13	Operate HOLD key.	At 6-button key telephone set — Line lamp flashes at 30 ipm.
14	Replace handset on switchhook.	
15	At second PBX station — Repeat Steps 9 to 11, inclusive.	At second PBX station — Same as Steps 9 to 11, inclusive.
16	At 6-button key telephone set — Remove handset from switchhook, operate PICKUP key associated with 30-ipm flashing line lamp.	At 6-button key telephone set — Line lamp lights steadily. Conversation with first PBX station satisfactory.
17	At first PBX station — Replace handset on switchhook.	At 6-button key telephone set — Line lamp remains lighted steadily.
18	Remove handset from switchhook.	Line lamps remain lighted steadily. At first PBX station — Conversation with 6-button key telephone set satisfactory.
19	At 6-button key telephone set — Replace handset on switchhook.	Line lamp flashes at 30 ipm.
20	At first PBX station — Replace handset on switchhook.	Line lamp extinguished.
21	In slide 5 — Remove insulators from 11M contact of B relays; remove blocking tools from B (AA, Y, Z) relays.	

G. Interception With 6-button Key Telephone Set

- 1 In slide 5 —
Make busy all attendant trunks except trunk required for test by (1) insulating 11M contact of B (AA, Y, or Z) relay; (2) blocking operated B (AA, Y, or Z) relay.

STEP	ACTION	VERIFICATION
2a	If cord switchboard is provided — Operate battery cutoff key to OFF.	
3b	If first attendant cordless equipment is provided — Remove plug of head telephone set or handset from telephone jacks.	
4c	If second attendant cordless equipment is provided — Remove plug of head telephone set or handset from telephone jacks.	
5	At first PBX station — Remove handset from switchhook, wait for time-out of register.	At first PBX station — Audible ringing tone heard. At 6-button key telephone set — Line lamp flashes at 120 ipm. Audible signal sounds.
6	Operate PICKUP key associated with 120-ipm flashing line lamp.	
7	Remove handset from switchhook.	Audible signal silenced. Station lamp lighted steadily. Momentary burst of low tone heard. At first PBX station — Audible ringing tone removed. Momentary burst of low tone heard. Conversation with 6-button key telephone set satisfactory.
8	At second PBX station — Remove handset from switchhook, wait for time-out of register.	At second PBX station — Busy tone heard.
9	Replace handset on switchhook.	
10	Remove handset from switchhook, dial "0".	Busy tone heard.
11	Replace handset on switchhook.	
12	At 6-button key telephone set — Request first PBX station to remain off-hook.	
13	Operate HOLD key.	At 6-button key telephone set — Line lamp flashes at 30 ipm.
14	Replace handset on switchhook.	

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STEP	ACTION	VERIFICATION
15	At second PBX station — Repeat Steps 8 to 11, inclusive.	At second PBX station — Same as Steps 8 to 11, inclusive.
16	At 6-button key telephone set — Operate PICKUP key associated with 30- ipm flashing line lamp.	At 6-button key telephone set — Line lamp light steady. Conversation with first PBX station satis- factory.
17	At first PBX station — Replace handset on switchhook.	At 6-button key telephone set — Line lamp remains lighted steadily.
18	Remove handset from switchhook.	Station lamp remains lighted steadily. Conversation with 6-button key telephone set satisfactory.
19	At 6-button key telephone set — Replace handset on switchhook.	Line lamp flashes at 30 ipm.
20	At first PBX station — Replace handset on switchhook.	Line lamp extinguished.
21	In slide 5 — Remove insulators from 11M contact of B (AA, Y, Z) relays; remove blocking tools from B (AA, Y, Z) relays.	

H. Kickoff With Cordless Position

1	In slide 5 — Make busy all attendant trunks except trunk required for test by (1) insulating 11M con- tact of B (AA, Y, or Z) relay; (2) blocking operated B (AA, Y, or Z) relay.	
2a	If cord switchboard is provided — Operate battery cutoff key to OFF.	
3	At first attendant cordless equipment — Insert plug of head telephone set or handset into telephone jacks.	
4	Operate AUD SIG key to ON.	
5	At PBX station — Dial "0".	At PBX station — Audible ringing tone heard. At first attendant cordless equipment — Station lamp flashes at 120 ipm. Audible signal sounds.

STEP	ACTION	VERIFICATION
6	Operate PICKUP key associated with 120-ipm flashing station lamp.	Audible signal silenced. Station lamp lighted steadily.
7	Request PBX station to remain off-hook.	
8	Operate HOLD key.	Station lamp flashes at 30 ipm.
9	Operate PICKUP key of idle 2-way central office trunk.	Central office trunk lamp lighted steadily. If testing in manual area — Central office operator answers. If testing in dial area — Central office dial tone heard.
10b	If testing in manual area — Request connection to test desk.	Test desk answers.
11c	If testing in dial area — Dial transmission test code.	Transmission test tone heard.
12	Operate HOLD key.	Central office trunk lamp flashes at 30 ipm. PBX dial tone heard.
13	Operate DIAL BACK key.	
14	Dial number of PBX station held on attendant trunk.	Central office trunk, station lamps light steadily. Station lamp of attendant trunk extinguished. At PBX station — If testing in manual area — Conversation with test desk satisfactory. If testing in dial area — Transmission test tone heard.
15	At PBX station — Replace handset on switchhook.	
16	At first attendant cordless equipment — Operate RELEASE key.	At first attendant cordless equipment — Central office trunk PICKUP key releases. Central office trunk and station lamps extinguished.
17	In slide 5 — Remove insulators from 11M contact of B (AA, Y, Z) relays, remove blocking tool from B (AA, Y, Z) relays.	

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STEP	ACTION	VERIFICATION
I. Kickoff With 6-button Key Telephone Set (DIAL BACK Key Required)		
1	In slide 5 — Make busy all attendant trunks except trunk required for test by (1) insulating 11M contact of B (AA, Y, or Z) relay; (2) blocking operated B (AA, Y, Z) relays.	
2a	If cord switchboard is provided — Operate battery cutoff key to OFF.	
3b	If first attendant cordless equipment is provided — Remove plug of head telephone set or handset from telephone jacks.	
4c	If second attendant cordless equipment is provided — Remove plug of head telephone set or handset from telephone jacks.	
5	At PBX station — Dial "0".	At PBX station — Audible ringing tone heard. At 6-button key telephone set — Audible signal sounds. Line lamp flashes at 120 ipm.
6	At 6-button key telephone set — Operate PICKUP key associated with 120-ipm flashing line lamp.	
7	Remove handset from switchhook.	Audible signal silenced. Line lamp lighted steadily.
8	Request PBX station to remain off-hook.	
9	Operate HOLD key.	Station lamp flashes at 30 ipm.
10	Operate PICKUP key of idle 2-way central office trunk.	Central office trunk lamp lighted steadily. If testing in manual area — Central office operator answers. If testing in dial area — Central office dial tone heard.
11d	If testing in manual area — Request connection to test desk.	Test desk answers.

STEP	ACTION	VERIFICATION
12e	If testing in dial area — Dial transmission test code.	Transmission test tone heard.
13	Operate HOLD key.	
14	Operate DIAL BACK key.	
15	Dial number of PBX station being held on attendant trunk.	Central office trunk and station lamp lighted steadily. Station lamp of attendant trunk extinguished. At PBX station — If testing in manual area — Conversation with test desk satisfactory. If testing in dial area — Transmission test tone heard.
16	Replace handset on switchhook.	
17	At 6-button key telephone set — Replace handset on switchhook.	At 6-button key telephone set — Line lamp extinguished.
18	In slide 5 — Remove insulators from 11M contact of B (AA, Y, Z) relays; remove blocking tool from B (AA, Y, Z) relays.	

J. Attendant Trunk Operation Without an Attendant

1	In slide 5 — Make busy all attendant trunks except trunk required for test by (1) insulating 11M contact of operated B (AA, Y, or Z) relay.	
2	At PBX station — Dial "0".	At PBX station — Dial tone heard. Busy tone heard.
3	Replace handset on switchhook.	Busy tone removed.
4	Remove handset from switchhook.	Dial tone heard.
5	Wait until register times out.	Busy tone heard.
6	Replace handset on switchhook.	
7	In slide 5 — Remove insulators from 11M contact of operated B (AA, Y, or Z) relay.	