

MISCELLANEOUS CIRCUITS
BATTERY CUTOFF, GENERATOR SUPPLY, AUXILIARY SIGNAL,
ALARMS, PEG COUNT, AND PAGE KEY
OPERATION TESTS
608A PBX

1. GENERAL

1.01 This section describes a method of testing the miscellaneous circuits of the 608A PBX.

1.02 The tests covered are:

- A. *Battery Cutoff*: This test checks for the presence of dc battery.
- B. *Generator Supply*: This test checks for the proper polarity and presence of ringing current.
- C. *Auxiliary Signal Circuit*: This test checks the auxiliary signal and signal cutoff circuit.
- D. *Switchboard Fuse Alarm Circuit*: This test checks the operation of the switchboard fuse alarm circuit.
- E. *PBX Power Plant Alarm Circuit*: This test checks that an alarm condition at the power plant is indicated at the switchboard.

F. *Peg Count*: This test checks the operation of the peg count register.

G. *Page Key*: This test checks the connection between the PBX position circuit and customer-owned paging system.

2. APPARATUS

All Tests

2.01 Attendant telephone set connected to the PBX telephone jacks.

Tests B, D, and E

2.02 Test receiver, 716C attached to a W2AB cord, 6 feet long, equipped with two 360A tools (2W21A cord), one KS-6278 connecting clip and one 411B (test pick) tool.

Test D

2.03 Handset (dial hand test set) equipped with connecting clips.

2.04 Two 624B (terminal connector) tools.

3. METHOD

STEP	ACTION	VERIFICATION
A. Battery Cutoff		
1	When PBX is idle — Operate BAT key to GFF position.	
2	Operate TALK key.	TALK lamp does not light.
3	Operate BAT key to ON position.	Back lamps flash momentarily.

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STEP	ACTION	VERIFICATION
4	Operate TALK key.	TALK lamp lights.
5	Operate RLS key.	TALK lamp extinguished.

B. Generator Supply

1	At PBX fuse panel unit — Connect clip of test receiver to ground lug.	
2	Touch test pick of test receiver to terminal 44 of terminal strip A.	Machine ringing (interrupted generator) heard.
3	Touch test pick of test receiver to terminal 34 of terminal strip A.	AC-DC audible (generator) heard.
4	Disconnect test receiver.	
5	Operate TALK key.	
6	Insert plug of front cord into jack of nearby station.	Station ringer sounds intermittently.
7	Operate RING FRONT key.	Station ringer sounds steadily.
8	Operate RLS key.	
9	Disconnect front cord.	

C. Auxiliary Signal Circuit

1	Operate SIG key to ON position.	
2	At PBX station — Originate call to PBX.	Line lamp lights. Audible signal sounds.
3	At PBX — Turn VOL potentiometer (clockwise rotation increases volume). <i>Note:</i> Audible tone is heard and adjusted in the first position only on a multiple position PBX.	Audible signal adjusted to desired level.
4	Operate SIG key to OFF position.	Audible signal silenced.
5	At PBX station — Replace handset on switchhook.	Line lamp extinguished.
6	At PBX — Make a station-to-station connection.	
7	Obtain flash back from either station.	Supervisory lamp flashes at 120 ipm. Audible click sounds.

STEP	ACTION	VERIFICATION
8	Operate SIG key to ON position.	Audible signal tone sounds.
9	Restore PBX and stations to normal.	
D. Switchboard Fuse Alarm Circuit		
<i>Note:</i> At multiple PBX, all alarm indications are located in the first position.		
1	At PBX position fuse panel unit — Connect 624B tools to terminals 14 and 27 of terminal strip C.	
2	Connect clips of hand test set (with key on TALK) to tips of 624B tools.	At nonmultiple PBX or first position of multiple PBX — Position FA lamp lights. Audible signal sounds.
3	At nonmultiple PBX or first position of multiple PBX — Operate FA key to OFF position momentarily.	Position FA lamp lighted in Step 2 remains lighted. Audible signal silenced while FA key is operated to OFF position.
4	At PBX position fuse panel unit — Disconnect hand test set and remove 624B tool from terminal 27 of terminal strip C.	FA lamp extinguished. Audible signal silenced.
5	Connect clip of test receiver to tip of 624B tool on terminal 14 of terminal strip C.	
6	Insert test pick of test receiver into aperture of a 70-type fuse cap and touch the alarm lead ring.	Audible signal sounds.
7	Disconnect test receiver, remove 624B tool.	Audible signal silenced.

E. PBX Power Plant Alarm Circuit
(Power Plants SD-81496-01 and SD-81497-01)

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|---|--|
| 1 | At power plant —
Remove 70-type pilot fuse.
SD-81496-01 BS1 fuse.
SD-81497-01 BAT A fuse. |
| 2 | Connect clip of test receiver to ground.
SD-81496-01 Terminal 16
SD-81497-01 Terminal 9 |

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STEP	ACTION	VERIFICATION
3	Touch test pick of test receiver to spring in fuse block upon which base of fuse normally rests.	Click heard.
4	Touch test pick of test receiver to contact nearest small slot in fuse block.	Click heard.
5	Replace pilot fuse.	
6	Insert test pick of test receiver into aperture of pilot fuse block and touch alarm lead ring.	At power plant SD-81497-01 — ALM lamp lights. At nonmultiple PBX or first position of multiple PBX — CF lamp lights. Audible signal sounds.
7	Disconnect test receiver.	Alarm indications restore to normal.
8	At power plant — Remove ringing machine plug from RM socket.	At power plant — RING NV lamp lights. At PBX — Audible signal sounds. CF lamp lights.
9	Replace RM plug in RM socket.	Alarm indications restore to normal.

F. Peg Count

1	At PBX — Depress PEG key five times.	At register location — Register advances five times.
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G. Page Key

1	At PBX — Depress PAGE key, hold operated.	Talking connection established between PBX position circuit and customer-owned paging system. Where provided, PAGE lamps light.
2	Release PAGE key.	Paging system restores to normal.