

**ATTENDANT EQUIPMENT**  
**101-TYPE KEY EQUIPMENT**  
**METHOD OF OPERATION**  
**701A, 701B, AND 740E PBX**

**1. GENERAL**

**1.01** This section covers the method of operating 101-type key equipment when used with auxiliary trunk SD-65725-01 arranged to function with attendant line SD-65725-01 or attendant trunk SD-65737-01. Information in this section is also intended for use in applying an overall operational test of connecting circuits.

**1.02** This section is reissued to revise Table C to incorporate a steady audible signal to the attendant when a calling station disconnects and the attendant has failed to disconnect after completion or called party answer.

**2. METHOD OF OPERATION**

**2.01** When overall operational tests of connecting circuits are made, PBX stations, test lines, test desks, etc, should be employed to establish the necessary conditions for tests.

**2.02** The key unit is equipped with five 3-position locking trunk pickup keys, a nonlocking hold key, and optional buzzer and battery cutoff key. Each pickup key may pick up two trunks in the outside positions of the key, the center position being the release or normal position. The pickup keys are only released manually. Lower numbered keys cut off succeeding keys when operated. Incoming and outgoing supervisory signals are received on the trunk and line lamps, respectively. The trunk (hold) lamp is removed when attendant line is used.

**2.03** Fig. 1 and 2 show the difference in equipment arrangements when an attendant trunk or an attendant line is used with an auxiliary trunk.

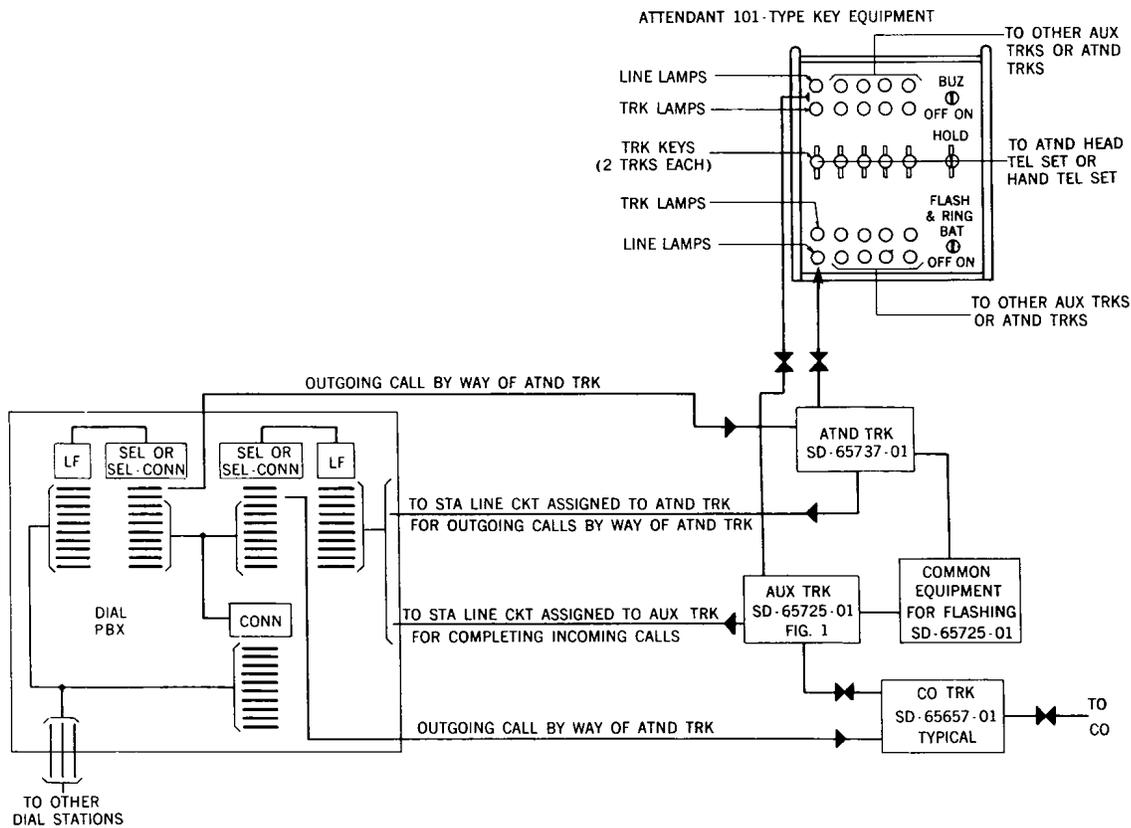


Fig. 1 — Block Diagram of Auxiliary Trunk and Attendant Trunk Using 101-Type Key Equipment

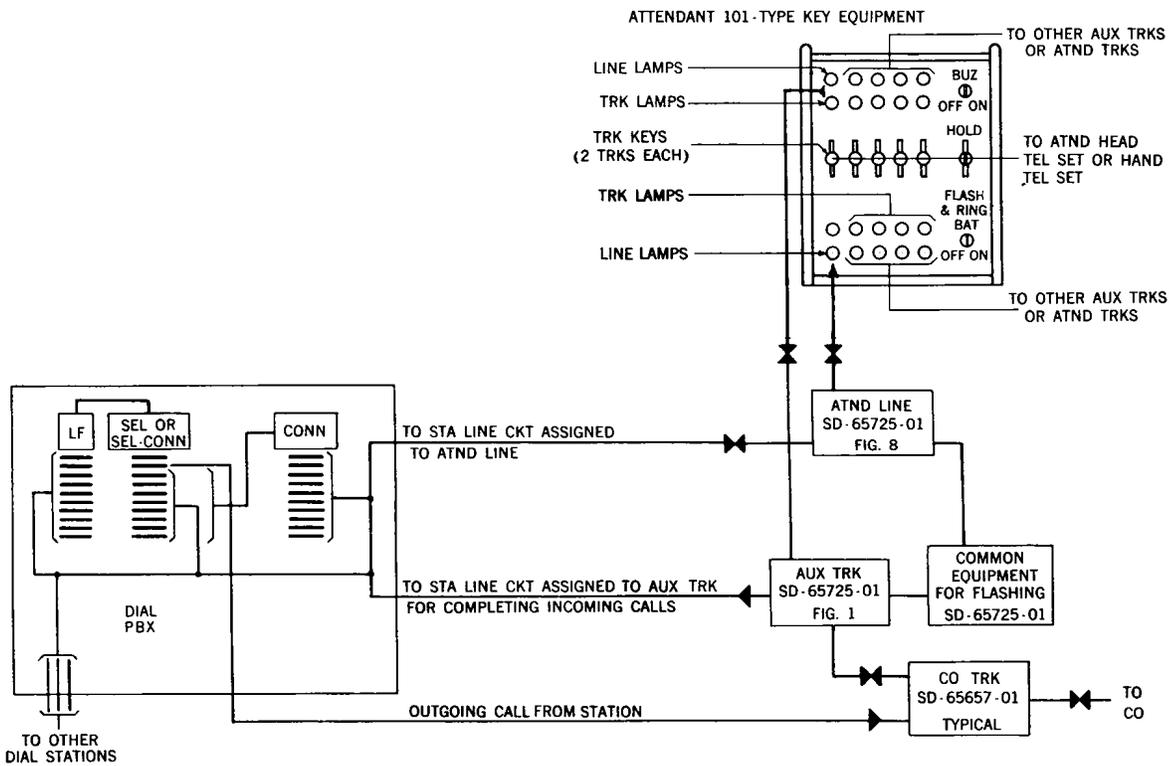


Fig. 2 — Block Diagram of Auxiliary Trunk and Attendant Line Using 101-Type Key Equipment

**2.04 INDEX FOR TYPICAL CALL TABLES:**

- A. Legend*
- B. Incoming Central Office Call*
- C. Outgoing Central Office Call from Station through Attendant Trunk*
- D. Outgoing Central Office Call from Station through PBX*
- E. Outgoing Central Office Call by Attendant through Auxiliary Trunk*
- F. Station Call to Attendant Line*
- G. Attendant Call to Station Using Attendant Line*

**TABLE A — LEGEND**

KEY OPERATION		LAMP OPERATION		AUD SIG OPERATION	
R	Released	○	Steadily lighted	CONT	Continuous
O	Operated	●	Dark	SIL	Silent
MO	Momentarily operated	⊙ <sub>30</sub>	Flashing — 30 ipm	60	Intermittent — 60 ipm
		⊙ <sub>60</sub>	Flashing — 60 ipm		
		⊙ <sub>120</sub>	Flashing — 120 ipm		

TABLE B — INCOMING CENTRAL OFFICE CALL

CONDITION		RESULTS					
S T E P	ACTION	101-TYPE KEY UNIT				AUD SIG	REMARKS
		KEYS		LAMPS			
		HOLD	TRK	TRK	LINE		
<b>Incoming Signal</b>							
1	Idle condition		R	●	●		
2	Seizure by CO		R	○	●		
3	Ring from CO		R	⊙60	●	60	
4	Atnd answers		O	○	●	SIL	Conversation OK
<b>Call Extended to Busy Station</b>							
5	Atnd holds call	MO	O	⊙30	●		CO excluded, PBX dial tone heard
6	Atnd dials station		O	○	⊙30		Busy tone heard, CO still excluded
7	Atnd reconnects to CO, reports station busy	MO	O	○	●		
<b>Call Extended to Idle Station</b>							
8	Atnd holds call	MO	O	⊙30	●		CO excluded, PBX dial tone heard
9	Atnd dials station		O	○	⊙30		Audible ring heard
10	Atnd disconnects		R	○	⊙30		Audible ring heard by CO
11	Station answers		R	○	○		Conversation between CO and station OK
12	Atnd reconnects		O	○	○		With lockout—Atnd excluded
13	Atnd disconnects		R	○	○		
14	Recall by station for transfer		R	○	⊙120	CONT	
15	Atnd answers		O	○	○	SIL	With secrecy—CO excluded
16	Atnd releases station	MO	O	○	●		Station released
17	Repeat Steps 8 through 11						
18	Station disconnects		R	○	●		
19	CO disconnects		R	●	●		

TABLE C — OUTGOING CENTRAL OFFICE CALL FROM STATION THROUGH ATTENDANT TRUNK

CONDITION		RESULTS					
S T E P	ACTION	101-TYPE KEY UNIT				AUD SIG	REMARKS
		KEYS		LAMPS			
		HOLD	TRK	TRK	LINE		
1	Station dials atnd		R	60	●	60	
2	Atnd answers		O	○	●	SIL	Conversation OK
3	Atnd holds call	MO	O	○	○		Station excluded, PBX dial tone heard
4	Atnd calls CO, (test desk or opr)		O	○	○		
5	Atnd disconnects		R	○	○		Conversation between CO and station OK
6	Recall by station		R	120	○	CONT	
7	Atnd answers		O	○	○	SIL	
8	Atnd disconnects		R	○	○		
9	Station disconnects		R	●	○		
10	CO recalls		R	●	○		Station bell rings
11	Station answers		R	120	○	CONT	
12	Atnd answers		O	○	○	SIL	
→ 13	Station disconnects		R	●	○	CONT	
→ 14	Atnd disconnects		R	○	○	SIL	
15	CO disconnects		R	●	●		

TABLE D — OUTGOING CENTRAL OFFICE CALL FROM STATION THROUGH PBX

1	Seizure by dial station or switchboard		R	○	●		
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TABLE E — OUTGOING CENTRAL OFFICE CALL BY ATTENDANT THROUGH AUXILIARY TRUNK

CONDITION		RESULTS					
STEP	ACTION	101-TYPE KEY UNIT				AUD SIG	REMARKS
		KEYS		LAMPS			
		HOLD	TRK	TRK	LINE		
1	Atnd connects to trunk		O	○	●		With restriction— Trunk cannot be seized
2	Atnd calls CO		O	○	●		Called number reached
3	Call extended same as Table B						

TABLE F — STATION CALL TO ATTENDANT LINE

1	Station dials atnd		R	See 2.02	Ⓣ60	60	
2	Atnd answers		O		○	SIL	Conversation OK
3	Atnd holds call	MO	O		Ⓣ30		Station hanging up will release call
4	Atnd reconnects	MO	O		○		
5	Station and atnd disconnect		R		●		

TABLE G — ATTENDANT CALL TO STATION USING ATTENDANT LINE

1	Atnd connects to line		O	See 2.02	○		PBX dial tone heard
2	Atnd dials station		O		○		Audible ring heard
3	Hold, reconnect, and disconnect same as Steps 3, 4, and 5 of Table F						