ATTENDANT EQUIPMENT
6-BUTTON KEY TELEPHONE SET
METHOD OF OPERATION
701A, 701B, AND 740E PBX

1. GENERAL

1.01 This section covers the method of operating a 6-button illuminated key telephone set 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 party 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 telephone set is equipped with five illuminated locking trunk pickup keys and a nonlocking hold key. A pickup key is only released by operation of another pickup key. The hold key is nonreleasing. The switch hook serves the same purpose as a released pickup key; the audible signal may be silenced by operating the exclusion key associated with the switch hook. Incoming and outgoing supervisory signals are both received on the illuminated trunk key.

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.
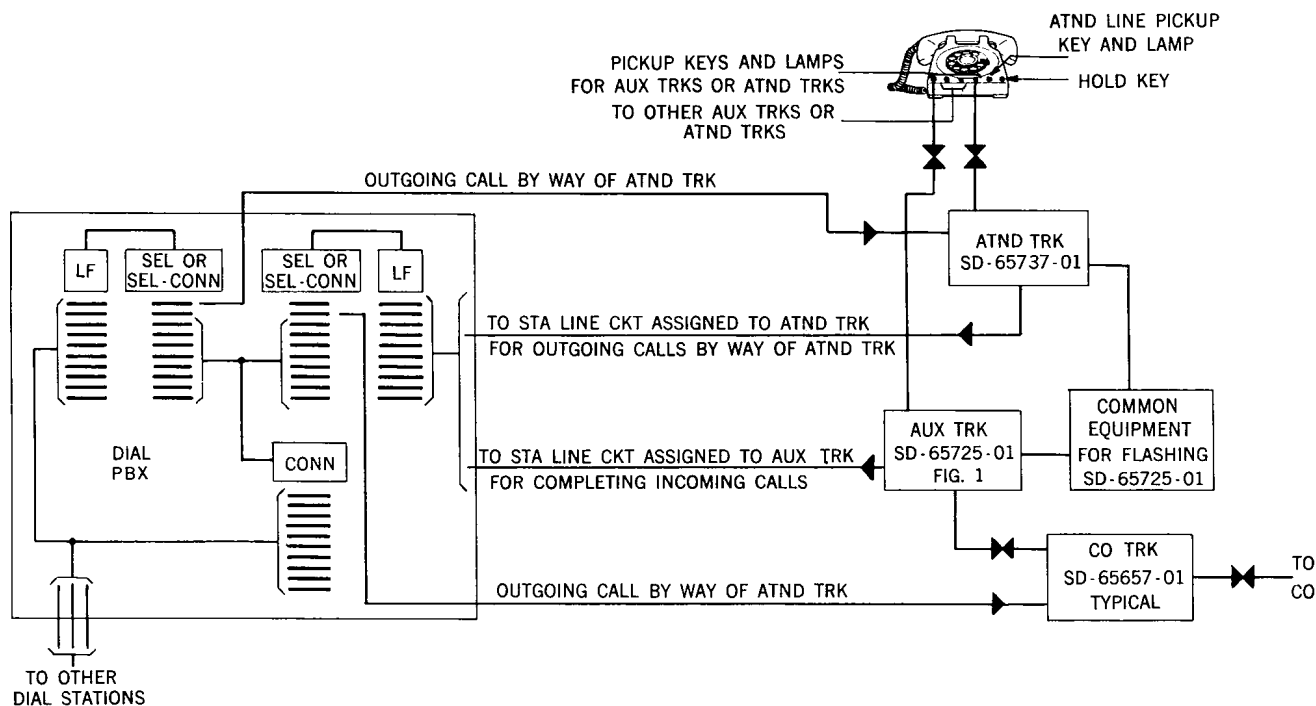
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ATTENDANT 6-BUTTON KEY TELEPHONE SET

ATND LINE PICKUP
KEY AND LAMP

PICKUP KEYS AND LAMPS
FOR AUX TRKS OR ATND TRKS

HOLD KEY

TO OTHER AUX TRKS OR
ATND TRKS

OUTGOING CALL BY WAY OF ATND TRK

ATND TRK
SD-65737-01

LF | SEL OR
SEL-CONN | SEL OR
SEL-CONN | LF

TO STA LINE CKT ASSIGNED TO ATND TRK
FOR OUTGOING CALLS BY WAY OF ATND TRK

COMMON
EQUIPMENT
FOR FLASHING
SD-65725-01

DIAL
PBX

CONN

AUX TRK
SD-65725-01
FIG. 1

TO STA LINE CKT ASSIGNED TO AUX TRK
FOR COMPLETING INCOMING CALLS

CO TRK
SD-65657-01
TYPICAL

TO
CO

OUTGOING CALL BY WAY OF ATND TRK

TO OTHER
DIAL STATIONS

**Fig. 1 — Block Diagram of Auxiliary Trunk and
Attendant Trunk Using a 6-Button Key Telephone Set**

ATTENDANT 6-BUTTON KEY TELEPHONE SET

ATND LINE PICKUP
KEY AND LAMP

PICKUP KEYS AND LAMPS
FOR AUX TRKS AND ATND TRKS

HOLD KEY

TO OTHER AUX TRKS OR
ATND TRKS

ATND LINE
SD-65725-01
FIG. 8

LF | SEL OR
SEL-CONN | CONN

TO STA LINE CKT ASSIGNED
TO ATND LINE

COMMON
EQUIPMENT
FOR FLASHING
SD-65725-01

DIAL
PBX

AUX TRK
SD-65725-01
FIG. 1

TO STA LINE CKT ASSIGNED TO AUX TRK
FOR COMPLETING INCOMING CALLS

CO TRK
SD-65657-01
TYPICAL

TO
CO

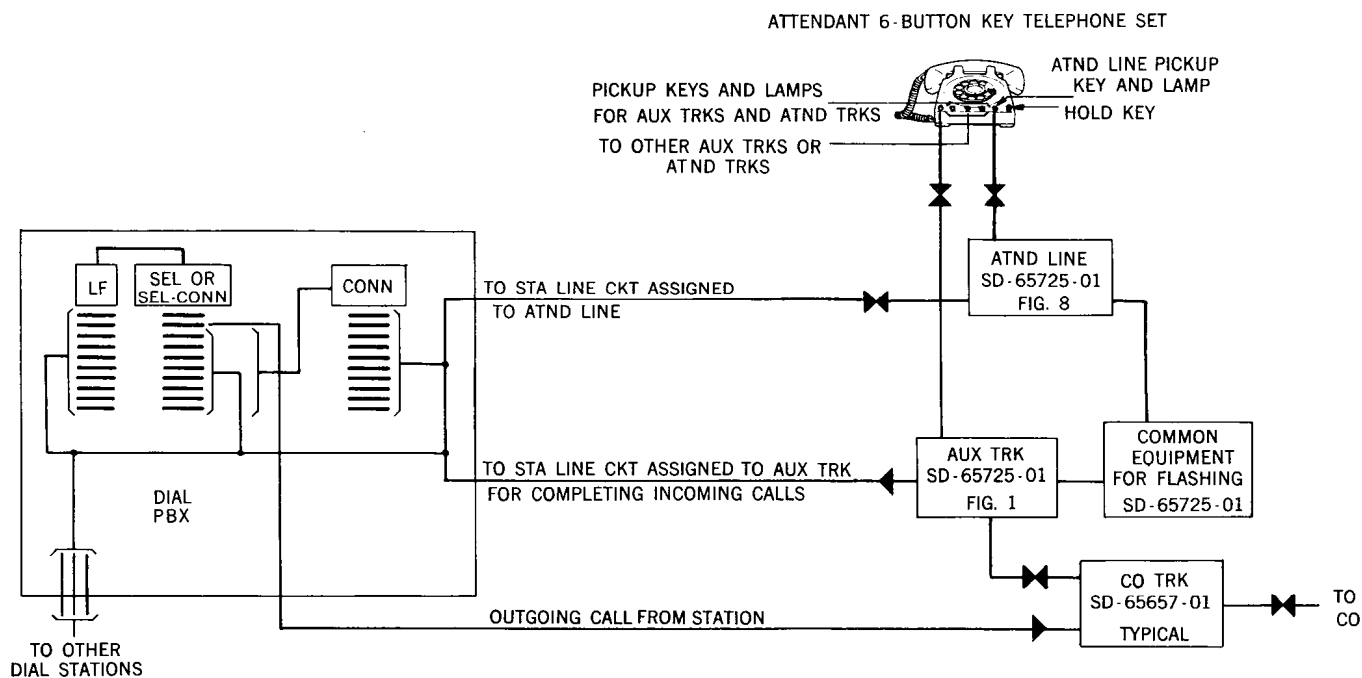OUTGOING CALL FROM STATION

TO OTHER
DIAL STATIONS

**Fig. 2 — Block Diagram of Auxiliary Trunk and
Attendant Line Using a 6-Button Key Telephone Set**

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		RECEIVER OPERATION	
R	Released	◯	Steadily lighted	CONT	Continuous	ON	Receiver on-hook
O	Operated	●	Dark	SIL	Silent	OFF	Receiver off-hook
MO	Momentarily operated	㉚	Flashing— 30 ipm	60	Intermittent— 60 ipm		
		㊿	Flashing— 60 ipm				
		⑫⓪	Flashing—120 ipm				

TABLE B — INCOMING CENTRAL OFFICE CALL

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

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

STEP	ACTION	RCVR	HOLD	TRK	TRK LP	AUD SIG	REMARKS
			KEYS				
1	Station dials atnd	ON		R	(60)	60	
2	Atnd answers	OFF		O	◯	SIL	Conversation OK
3	Atnd holds call	OFF	MO	O	◯		Station excluded, PBX dial tone heard
4	Atnd calls CO, (test desk or opr)	OFF		O	◯		
5	Atnd disconnects	ON		O	◯		Conservation between CO and station OK
6	Recall by station	ON		O	(120)	CONT	
7	Atnd answers	OFF		O	◯	SIL	
8	Atnd disconnects	ON		O	◯		
9	Station disconnects	ON		O	◯		Trk lp dark with "Z" option
10	CO recalls	ON		O	◯		Trk lp dark with "Z" option Station bell rings
11	Station answers	ON		O	(120)	CONT	
12	Atnd answers	OFF		O	◯	SIL	
13	Station disconnects	OFF		O	◯	CONT	Trk lp dark with "Z" option
14	Atnd disconnects	ON		O	◯	SIL	
15	CO disconnects	ON		O	●		

TABLE D — OUTGOING CENTRAL OFFICE CALL FROM STATION THROUGH PBX

STEP	ACTION	RCVR	HOLD	TRK	TRK LP	AUD SIG	REMARKS
1	Seizure by dial station or switchboard	ON		R	◯		

TABLE E — OUTGOING CENTRAL OFFICE CALL BY ATTENDANT THROUGH AUXILIARY TRUNK

STEP	ACTION	RCVR	HOLD	TRK	TRK LP	AUD SIG	REMARKS
			KEY TELEPHONE SET				
			KEYS				
1	Atnd connects to trunk	OFF		O	◯		With restriction— Trunk cannot be seized
2	Atnd calls CO	OFF		O	◯		Called number reached
3	Call extended same as Table B						

TABLE F — STATION TO ATTENDANT LINE

STEP	ACTION	RCVR	HOLD	TRK	TRK LP	AUD SIG	REMARKS
1	Station dials atnd	ON		R	(60)	60	
2	Atnd answers	OFF		O	◯	SIL	Conversation OK
3	Atnd holds call	OFF	MO	O	(30)		Station hanging up will release call
4	Atnd reconnects	OFF	MO	O	◯		
5	Station and atnd disconnect	ON		O	●		

TABLE G — ATTENDANT CALL TO STATION USING ATTENDANT LINE

STEP	ACTION	RCVR	HOLD	TRK	TRK LP	AUD SIG	REMARKS
1	Atnd connects to line	OFF		O	◯		PBX dial tone heard
2	Atnd dials station	OFF		O	◯		Audible ring heard
3	Hold, reconnect, and disconnect same as Steps 3, 4, and 5 of Table F						