

## 812A PBX AUTOVON ATTENDANT CONSOLE (155A6E-03L)

### METHOD OF OPERATION

#### 1. GENERAL

**1.01** This section describes the method of operation of the 812A PBX AUTOVON console associated with an AUTOVON Interconnection Circuit.

**1.02** The AUTOVON attendant console circuit provides the attendant with the ability to originate calls, complete calls and handle other normal attendant functions, in addition to processing incoming and outgoing routine and precedence AUTOVON calls.

**1.03** This issue is based on the following drawings:

SD-1C588-01, Issue 1, AUTOVON Interconnection Circuit

SD-1C589-01, Issue 1, PBX System No. 812A AUTOVON Attendant Console

SD-1E389-01, Issue 1, Attendant Position Circuit

If this section is to be used with equipment or apparatus reflecting later issues of the drawings, reference should be made to those SDs and CDs to determine the extent of the changes and the manner in which the section may be affected.

**1.04** Refer to Section 981-270-100 for a general description of the 812A PBX for use with AUTOVON access lines.

#### 2. DESCRIPTION

**2.01** The 155A6E-03L AUTOVON attendant console is designed for use with an 812A PBX having access to the AUTOVON Switching Network.

**2.02** The AUTOVON attendant console (Fig. 1 and 2) consists of:

- (a) Ninety AUTOVON buttons and lamps, designated attendant (ATND), precedence (PREC), and routine (ROUT). The AUTOVON buttons are located on the upper key field of

the console. The following buttons and lamps are located on the lower key field:

- (b) Twenty-four control buttons and lamps:

SIG Button

SIGNAL button, used to manually start ringing.

RLS DEST Button

RELEASE DESTINATION button. Used to release a called party or station from the connection. Remove ringing station from central office (CO) connection.

EXCL SRC Button

EXCLUDE SOURCE button when operated, places the calling party on hold and connects the attendant with the called party. There is a lamp inside the button which, when lighted, indicates that the calling party has been excluded from the connection.

RDY Lamp

READY lamp lights when dialing may begin. The lamp goes dark after the first digit is dialed.

CW Lamp

CALLS WAITING lamp lights when loop call(s) are waiting to be answered and all of the loops are busy. Remains lighted until all waiting calls are answered or until the calling parties disconnect.

MNR ALM Lamp—First Console Only

MINOR ALARM is used to indicate a minor alarm condition at the PBX. A minor alarm condition is a trouble condition that has not degraded the PBX capability but which

should be corrected at the earliest feasible time.

#### MAJ ALM Lamp—First Console Only

MAJOR ALARM is used to indicate a major alarm condition at the PBX. A major alarm condition is an actual or impending trouble in the PBX requiring immediate corrective action in order to restore or maintain the PBX capability.

#### POS BSY Button

POSITION BUSY button. A push-to-operate, push-to-release button which, when operated, lights and makes the console unavailable to incoming calls.

#### PAGE Button

Used to gain access to paging equipment.

#### SUPV Button

SUPERVISOR button, when operated, signals the supervisor.

#### CONF Button

CONFERENCE button. Used to set up a conference call. Lights when conference code number is dialed by station or tie trunk. Incoming call indicated by 60 ipm lamp flash and audible signal at console.

#### HOLD Button

Used to place a call in a hold condition and release the console from the connection.

#### NITE Button

- NIGHT button. A push-to-operate, push-to-release button, used to activate the night service arrangement. Lights when operated.

#### RLS Button

RELEASE button. Used to release the attendant from the connection. Lights when the console is available for incoming calls.

#### START Button

Used to initiate dialing from the console.

#### AUD SIG Button

AUDIBLE SIGNAL button. A push-to-operate, push-to-release button, used to turn ON/OFF the audible signal at the console. A lamp in the button lights when the AUD SIG button is turned OFF.

- (c) Six switched loop buttons and their associated source (SRC) and destination (DEST) lamps:

#### LOOP Buttons

Loop buttons are used to answer incoming calls, attendant dial "0" calls, attendant intercept calls, and recalls on established connections. One button is required for each attendant loop. Each button has an individual lamp inside the button. A dark button indicates the loop is idle. A steadily lighted button indicates that the attendant is connected to the loop. A winking (30 ipm) loop button indicates a call is being held on the loop.

#### SRC Lamps

SOURCE lamps are used to indicate the condition of the calling party on the connection.

#### DEST Lamps

DESTINATION lamps are used to indicate the condition of the called party on the connection.

- (d) Twelve Incoming Call Identification (ICI) lamps:

INCOMING CALL IDENTIFICATION lamps are used to indicate the type or class of trunk of incoming calls. For example, a lamp designated LDN would represent a Listed Directory Number type call. A lamp designated RCL would represent an attendant recall.

- (e) Twenty-four Trunk Group Busy (TGB) lamps:

TRUNK GROUP lamps are used to indicate the idle or busy status of trunk groups reached by dialing.

- (f) Six Trunk Group Access buttons:

#### TRK GP ACC Buttons

TRUNK GROUP ACCESS buttons are used by the attendant to inhibit station access to trunks in a specific group.

- (g) 8R rotary dial.

- (h) Sixteen-button TOUCH-TONE® pad.

**2.03** AUTOVON buttons, as well as 812A PBX control buttons, appear on the integrated 155A6E-03L AUTOVON attendant console. All AUTOVON access lines have a console appearance and may be directly accessed by the attendant.

**2.04** AUTOVON attendant trunks (ATND TRK) appear on a single button. ROUTINE access lines have a single button appearance. PRECEDENCE access lines appear on two buttons—ROUTINE and PRECEDENCE. All AUTOVON buttons, as well as 812A PBX buttons, have line lamps in the buttons.

**2.05** The rotary dial is used when the connecting CO is rotary only. The TOUCH-TONE pad is used for completing inward calls to a PBX station or PBX tie trunk circuit, originating outward calls to a connecting AUTOVON Switching Center or for completing outgoing calls to the DDD network if the connecting CO is equipped for TOUCH-TONE dialing.

### 3. METHOD OF OPERATION

**3.01** Incoming and outgoing routine calls may be received or dialed directly by stations behind the PBX. The AUTOVON Interconnection Circuit used by these calls causes the associated routine console buttons to light.

**3.02** Incoming AUTOVON calls to the attendant console appear as a flashing lamp on either an R or P button associated with each AUTOVON Interconnection Circuit. Precedence calls cause both the R and P buttons to light with the R

lamp lighted steadily and the P lamp flashing. Routine calls activate only the R lamp.

**3.03** When an incoming or outgoing routine call is preempted by the AUTOVON Switching Center and the PBX station portion of the preempted call is not to be reused by the precedence call, the AUTOVON Interconnection Circuit automatically disconnects the PBX. When the call is preempted by the AUTOVON Switching Center and will be reused by the PBX, the AUTOVON Interconnection Circuit recognizes the preemption, interrupts the routine call, and accepts the precedence call. When this occurs, both the R and P lamps light.

**3.04** All incoming or outgoing routine calls may be dialed direct. All outgoing precedence calls must be placed by the console attendant.

**3.05** Incoming precedence calls may be dialed direct to a station via the AUTOVON Interconnection Circuit.

**3.06** When all AUTOVON Interconnection Circuits are in use, they can only be preempted by the attendant on a barge-in basis. The attendant must then request the preempted parties to disconnect before processing the precedence call. A precedence capable line that is busy on a routine call may be preempted by the attendant. Routine only lines may be accessed by the attendant on a barge-in basis. Precedence capable lines already busy on a precedence call may also be accessed by the attendant on a barge-in basis.

**3.07** Typical call tables are divided into the following categories:

TABLE A Legend of Abbreviations and Conditions of Console Lamps and Buttons for Typical Calls.

TABLES B-Y Incoming Routine Calls

TABLES AA-AF Incoming Precedence Calls

TABLES AG-AS Outgoing Routine Calls

TABLES AT-AU Outgoing Precedence Calls

**3.08** The typical call tables provide a sequential description of the processing of a call by the 812A PBX, the AUTOVON Interconnection Circuit and the effect of each call on the 155A6E-03L

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attendant console. The tables depict the various console button operations as the call progresses and the effect these steps have on the condition of the console lamps.

**3.09** The attendant console is shown in the idle condition at the beginning of each typical call table to assure proper lamp indication and circuit operation as the call progresses.

**INDEX FOR TYPICAL CALL TABLES**

TABLE	TITLE		
A	LEGEND	P	To LDN - Extended to PBX Station
	<b>INCOMING ROUTINE CALLS</b>	R	Call to LDN Preempted by Attendant Before Being Answered
B	To Idle PBX Station	S	To Incoming LDN Call Answered and Extended to a PBX Station — Preempted by Attendant
C	To Busy PBX Station	T	To LDN — preempted by AUTOVON CW CTR Before Attendant Answers — Nonreuse
D	To PBX Station - No Answer	U	To LDN and Extended to a PBX Station Preempted by AUTOVON SW CTR — Nonreuse
E	Completed to PBX Station - Preempted by Attendant	V	To LDN Extended to PBX Station Preempted by AUTOVON SW CTR — Reuse to LDN
F	To Station - No Answer - Preempted by Attendant Before or After Time-out	W	To a PBX Station — Station Transfers Call to Console Attendant
G	To Busy PBX Station Preempted by Attendant	X	To LDN — Preempted by Attendant After Answer
H	To PBX Station Preempted by AUTOVON Switching Center (SW CTR) — Nonreuse	Y	To PBX Station — Call Abandoned
I	To a Busy PBX Station Preempted by AUTOVON SW CTR — Nonreuse		<b>INCOMING PRECEDENCE CALLS</b>
J	To a PBX Station — No Answer — Preempted by AUTOVON SW CTR — Nonreuse	AA	To a Busy PBX Station
K	Completed to PBX Station Preempted to AUTOVON SW CTR — Reuse by PBX Station	AB	To PBX Station — No Answer
L	To PBX Station — No Answer — Preempted by AUTOVON SW CTR - Reuse to Busy PBX Station — Rerouted to Console Attendant	AC	To LDN — Extended to PBX Station
		AD	To PBX Station — Transferred to Attendant
		M	To Busy PBX Station Preempted by AUTOVON SW CTR — Reuse to Listed Directory Number (LDN)
		N	Completed to PBX Station — Preempted by AUTOVON SW CTR — Reuse to PBX Station — No Answer — Call Rerouted by Attendant
			and Extended to a Nearby PBX Station

AE To PBX Station Preempted by a Higher Level Precedence to a PBX Station — No Answer

TABLE A

AF To PBX Station — Preempted by Attendant

LEGEND

**OUTGOING ROUTINE CALL**

AG From PBX Station

AH From PBX Station Preempted by Attendant

AI From PBX Station Preempted by AUTOVON SW CTR — Nonreuse

AJ From PBX Station — Preempted by AUTOVON SW CTR — Reuse to PBX Station — Transferred to Attendant

AK From PBX Tie Trunk

AL From PBX Tie Trunk Preempted by Attendant

AM From PBX Tie Trunk Preempted by AUTOVON SW CTR — Reuse to LDN

AN From PBX AUTOVON Attendant trunk

AP From PBX Attendant Trunk Preempted by Attendant

AR From Attendant Trunk Preempted by AUTOVON SW CTR — Reuse to PBX Station

AS From PBX Station — Abandoned

**OUTGOING PRECEDENCE CALL**

AT Placed by Attendant for a Station

AU By Attendant With Higher Order of Priority

LAMPS/KEYS		LAMP CONDITION	
AT	Attendant Trunk	●	Dark
R	Routine	○	Steadily Lighted
P	Precedence	⊙	Wink (30 IPM)
	Key Operation	⊙	Flash (60 IPM)
O	Operated	⊙	Flutter (720 IPM)
MO	Momentary Operate/Release	⊙	Flutter Flash (720/60 IPM)

**TABLE B**  
**INCOMING ROUTINE CALL TO IDLE PBX STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seized.			●	○	○	Routine and precedence lamps lighted steadily, attendant lamp dark.
3. Call precedence digit received (routine).			●	○	●	AUTOVON Interconnection Circuit determines call is routine, precedence lamp extinguished.
4. PBX station dial code received.			●	○	●	812A PBX processes call and connects it to dialed station; station bell sounds, and audible ringing is returned to calling party.
5. PBX station goes off-hook.			●	○	●	Ringing is tripped; station off-hook condition is forwarded to AUTOVON SW CTR.
6. Call completed, PBX station goes on-hook.			●	○	●	On-hook condition forwarded to the AUTOVON SW CTR, 812A PBX connection releases.
7. Calling party goes on-hook.			●	●	●	AUTOVON Interconnection Circuit releases, returns to idle condition.

**TABLE C**  
**INCOMING ROUTINE CALL TO BUSY PBX STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seized.			●	○	○	Routine and precedence lamps lighted steadily. Attendant lamp dark.
3. Call precedence digit received (routine).			●	○	●	AUTOVON Interconnection Circuit determines call is routine. Precedence lamp extinguishes.
4. PBX station digits received (routine).			●	○	●	812A PBX determines PBX station is busy. Busy tone is forwarded to the calling party.
5. Calling party disconnects.			●	●	●	AUTOVON Interconnection Circuit and 812A PBX release. All console lamps extinguish.

**TABLE D**  
**INCOMING ROUTINE CALL TO PBX STATION – NO ANSWER**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Inter-connection Circuit seized.			●	○	○	Routine and precedence lamps lighted steadily. Attendant lamp dark.
3. Call precedence digit received (routine).			●	○	●	AUTOVON Interconnection Circuit determines call is routine. Precedence lamp extinguished.
4. PBX station digits received.			●	○	●	812A PBX processes call and connects it to dialed station. Station bell sounds. Audible ringing is returned to calling party.
5. No answer, calling party goes on-hook.			●	●	●	AUTOVON Interconnection Circuit and 812A PBX release. All lamps extinguished.

**TABLE E**  
**COMPLETED INCOMING CALL TO PBX STATION – PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seized.			●	○	○	Routine and precedence lamps lighted steadily, attendant lamps dark.
3. Call precedence digit received (routine).			●	○	●	AUTOVON Interconnection Circuit determines call is routine, precedence lamp extinguished.
4. PBX station dial code received.			●	○	●	812A PBX processes call and connects it to the dialed station; station bell sounds, and audible ringing is returned to calling party.
5. PBX station goes off-hook.			●	○	●	Ringing is tripped; a station off-hook condition is forwarded to AUTOVON SW CTR.
6. A PBX AUTOVON station dials attendant.			⓪	⓪	●	Audible ringing heard by calling party; console audible signal sounds.
7. Attendant answers. PBX station requests precedence call.	MO	AT	⓪	○	●	Voice transmission established between station user and attendant.
8. Attendant trunk placed on hold.	MO	HOLD	⓪	○	●	PBX station on hold, no transmission to attendant.
9. Attendant preempts the completed AUTOVON routine call.	MO	P	⓪	○	⓪	A 3-second preemption tone is transmitted by the AUTOVON Interconnection Circuit to both the PBX station and the AUTOVON SW CTR. The connection to the PBX station is broken, and an on-hook condition is presented to AUTOVON SW CTR.
10. AUTOVON Interconnection Circuit disconnected and reseized.			⓪	○	⓪	When the CO disconnects, it is reseized by the Interconnection Circuit and returns AUTOVON dial tone.
11. Attendant dials requested station number.	O	TT DIAL	⓪	○	⓪	Audible ring heard by attendant; bell rings at called station.
12. Called station answers.			⓪	○	⓪	Ringing trips and off-hook condition returned to interconnection circuit.
13. Attendant connects attendant trunk (calling party) to AUTOVON Interconnection Circuit.	MO	AT	⓪	○	⓪	Calling party, called party, and attendant connected.

TABLE E (Cont)

## COMPLETED INCOMING CALL TO PBX STATION – PREEMPTED BY ATTENDANT

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
14. Attendant releases from connection.	MO	RLS	○	○	○	Calling party and called party remain connected.
15. Calling station disconnects.			●	○	○	812A PBX disconnects; interconnection circuit returns an on-hook to the AUTOVON SW CTR.
16. Called station disconnects.			●	●	●	AUTOVON Interconnection Circuit returns to idle state.

**TABLE F**  
**INCOMING ROUTINE CALL TO STATION – NO ANSWER**  
**PREEMPTED BY ATTENDANT BEFORE OR AFTER TIME-OUT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. PBX station dials attendant.			Ⓣ60	●	●	Station user hears audible ringing ; console bell sounds.
3. Attendant answers.	MO	AT	ⓉF	●	●	Transmission established between PBX station and attendant.
4. Attendant trunk placed on hold.	MO	HOLD	Ⓣ30	●	●	PBX station on hold ; no transmission to attendant.
5. Incoming AUTOVON Interconnection Circuit seized.			●	○	○	Routine and precedence lamps lighted steadily, attendant lamp dark.
6. Call precedence digit received (routine).			●	○	●	AUTOVON Interconnection Circuit determines call is routine, precedence lamp extinguished.
7. PBX station digits received.			●	○	●	812A PBX processes the call and connects it to dialed station, station bell sounds, and audible ringing is returned to the calling party.
8. Attendant preempts call prior to station answer and prior to the time-out (15 seconds).	MO	P	Ⓣ30	○	ⓉFF	A 3-second preemption tone is transmitted by the AUTOVON Interconnection Circuit to both the PBX station and the AUTOVON SW CTR. The connection to the PBX station is broken, and an on-hook is presented to the AUTOVON SW CTR.
9. AUTOVON trunk disconnects and is reseeded by the AUTOVON Interconnection Circuit.			Ⓣ30	○	ⓉF	When the AUTOVON trunk disconnects, it is reseeded by the interconnection circuit and returns dial tone. The 812A PBX disconnects station after the time-out.
10. Attendant dials requested number.	O	TT DIAL	Ⓣ30	○	ⓉF	Audible ring heard by attendant ; bell sounds at called station.
11. Called party answers.			Ⓣ30	○	ⓉF	Ringling trips ; voice transmission established between called party and attendant.
12. Attendant connects attendant trunk (calling party) to AUTOVON Interconnection Circuit.	MO	AT	ⓉF	○	ⓉF	Calling party, called party, and attendant connected.

**TABLE F (Cont)**  
**INCOMING ROUTINE CALL TO STATION – NO ANSWER**  
**PREEMPTED BY ATTENDANT BEFORE OR AFTER TIME-OUT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
13. Attendant releases from connection.	MO	RLS	○	○	○	Calling party and called party remain connected.
14. Called station disconnects first.			○	●	●	AUTOVON Interconnection Circuit disconnects.
15. Calling station disconnects.			●	●	●	812A PBX equipment disconnects, all lamps extinguish.

**TABLE G**  
**INCOMING ROUTINE CALL TO BUSY PBX STATION PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. PBX station dials attendant.			Ⓣ60	●	●	Audible ring heard by station user.
3. Attendant answers AUTOVON attendant trunk.	MO	AT	ⓉF	●	●	Transmission established between AUTOVON station user and attendant.
4. AUTOVON attendant trunk placed on hold.	MO	HOLD	Ⓣ30	●	●	PBX station on hold, no transmission to attendant.
5. Incoming call seizure.			Ⓣ30	○	●	AUTOVON Interconnection Circuit seized and precedence level recorded (routine).
6. PBX dial code received (for busy PBX station).			Ⓣ30	○	●	812A PBX determines called station is off-hook and returns busy tone.
7. Attendant preempts incoming routine call.	MO	P	Ⓣ30	○	ⓉFF	A 3-second preemption tone is transmitted by AUTOVON Interconnection Circuit to both PBX station and AUTOVON SW CTR. Connection to PBX station is broken.
8. AUTOVON SW CTR disconnects and is re seized by AUTOVON Interconnection Circuit.			Ⓣ30	○	ⓉF	An on-hook is presented to AUTOVON SW CTR. CO disconnects and re seized by interconnection circuit. CO dial tone is returned.
9. Attendant dials requested number.	O	TT DIAL	Ⓣ30	○	ⓉF	Audible ring heard by attendant, bell rings at called station.
10. Called party answers.			Ⓣ30	○	ⓉF	Ringling trips voice transmission established between called party and attendant.
11. Attendant connects calling party to AUTOVON Interconnection Circuit.	MO	AT	ⓉF	○	ⓉF	Calling party, called party, and attendant connected.
12. Attendant releases from connection.	MO	RLS	○	○	○	Calling party and called party remain connected.
13. Called station disconnects first.			○	●	●	AUTOVON Interconnection Circuit disconnects.
14. Calling station disconnects.			●	●	●	812A PBX equipment disconnects, all lamps extinguish.

**TABLE H**  
**INCOMING ROUTINE CALL TO PBX STATION**  
**PREEMPTED BY AUTOVON SW CTR – NONREUSE**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seizure.			●	○	○	
3. Call precedence digit received (routine).			●	○	●	AUTOVON Interconnection Circuit determines call is routine.
4. PBX station digits received.			●	○	●	812A PBX processes call and connects it to dialed station. Station bell sounds, and audible ringing is heard by calling party.
5. PBX station off-hook.			●	○	●	Ringing trips; voice transmission established.
6. AUTOVON Interconnection Circuit preempted by AUTOVON SW CTR.			●	○	●	AUTOVON Interconnection Circuit breaks connection to PBX station. preempt notification (PN) tone is transmitted. An on-hook condition is returned to AUTOVON SW CTR.
7. AUTOVON SW CTR disconnects.			●	●	●	AUTOVON Interconnection Circuit and 812A PBX connection release.
8. PBX station goes on-hook.			●	●	●	812A PBX station line releases.

**TABLE I**  
**INCOMING ROUTINE CALL TO A BUSY PBX STATION**  
**PREEMPTED BY AUTOVON SW CTR – NONREUSE**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seizure.			●	○	○	
3. Call precedence digit received (routine).			●	○	●	AUTOVON Interconnection Circuit determines call is routine; precedence lamp extinguishes.
4. PBX station digits received (for busy PBX station).			●	○	●	812A PBX determines dialed station is off-hook and returns busy tone to calling party.
5. AUTOVON Interconnection Circuit preempted by AUTOVON SW CTR.			●	○	●	AUTOVON Interconnection Circuit breaks connection to busy PBX station. PN tone is transmitted to PBX station and calling party.
6. AUTOVON SW CTR disconnects.			●	●	●	AUTOVON Interconnection Circuit and 812A PBX connection release.

**TABLE J**  
**INCOMING ROUTINE CALL TO A PBX STATION – NO ANSWER**  
**PREEMPTED BY AUTOVON SW CTR – NONREUSE**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seizure.			●	○	○	
3. Call precedence digit received.			●	○	●	AUTOVON Interconnection Circuit determines call is routine; precedence lamp extinguishes.
4. PBX station digits received.			●	○	●	812A PBX processes call and makes connection to the dialed station; station bell sounds, and audible ringing is heard by calling party.
5. AUTOVON Interconnection Circuit preempted by AUTOVON SW CTR.			●	○	●	PN tone is transmitted. AUTOVON Interconnection Circuit breaks connection.
6. AUTOVON SW CTR disconnects when call completed.			●	●	●	AUTOVON Interconnection Circuit and 812A connection release, all lamps extinguish.

**TABLE K**  
**INCOMING ROUTINE CALL COMPLETED TO PBX STATION**  
**PREEMPTED BY AUTOVON SW CTR — REUSE TO PBX STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seizure.			●	○	○	
3. Call precedence digit received.			●	○	●	AUTOVON Interconnection Circuit determines call is routine.
4. PBX station digits received.			●	○	●	812A PBX processes call and connects it to dialed station. Station bell sounds, and audible ringing is heard by calling party.
5. PBX station goes off-hook.			●	○	●	Ringing trips; voice transmission established.
6. AUTOVON Interconnection Circuit preempted by AUTOVON SW CTR.			●	○	●	PN tone is transmitted; on-hook signal transmitted to AUTOVON SW CTR. AUTOVON Interconnection Circuit breaks connection to PBX station.
7. AUTOVON SW CTR maintains seizure toward AUTOVON Interconnection Circuit.			●	○	○	AUTOVON Interconnection Circuit prepared to receive precedence digit tone and PBX station digits.
8. Preempted PBX station goes on-hook.			●	○	○	PBX station line released.
9. Precedence and PBX station dial code received.			●	○	○	Precedence audible ring on line, 812A PBX processes call, makes connection to the PBX station.
10. PBX station answers.			●	○	○	Off-hook condition returned to AUTOVON SW CTR, ringing trips; voice transmission established.
11. Calling party goes on-hook; AUTOVON SW CTR disconnects.			●	●	●	AUTOVON Interconnection Circuit, 812A PBX connections release.

TABLE I

**INCOMING ROUTINE CALL TO PBX STATION — NO ANSWER — PREEMPTED  
BY AUTOVON SW CTR — REUSE TO BUSY STATION. REROUTED TO  
CONSOLE ATTENDANT AND EXTENDED TO A NEARBY STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seizure.			●	○	○	AUTOVON Interconnection Circuit and 812A PBX prepare for incoming call.
3. Precedence digits and PBX station digits received.			●	○	●	812A PBX processes call and connects called station. Audible ringing tone returned.
4. AUTOVON SW CTR preempts unanswered incoming call.			●	○	●	Preemption tone transmitted by AUTOVON SW CTR, incoming call connection is broken.
5. Precedence call routed to busy PBX station, rerouted to attendant.			●	○	⊙ <sup>60</sup>	AUTOVON Interconnection Circuit reroutes precedence call to attendant.
6. Attendant extends call to nearby idle station.			●	○	○	812A PBX processes call.
7. PBX station goes off-hook.			●	○	○	Off-hook condition sent to AUTOVON SW CTR, ringing trips; voice transmission established.
8. Call completed, calling station goes on-hook, AUTOVON SW CTR disconnects.			●	○	○	AUTOVON Interconnection Circuit, 812A PBX connections release.
9. Called PBX station goes on-hook.			●	●	●	PBX station line circuit releases, all lamps extinguish.

**TABLE M**  
**INCOMING ROUTINE CALL TO BUSY PBX STATION PREEMPTED BY**  
**AUTOVON SW CTR — REUSE TO LISTED DIRECTORY NUMBER (LDN)**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seizure.			●	○	○	AUTOVON Interconnection Circuit, 812A PBX prepared for incoming call.
3. Precedence digit and PBX station digits (for busy station) received.			●	○	●	812A PBX processes call, determines call is routine, called station is off-hook, and returns busy tone.
4. AUTOVON SW CTR pre-empts AUTOVON Interconnection Circuit for reuse.			●	○	●	AUTOVON Interconnection Circuit causes busy PBX station to release; returns on-hook to AUTOVON SW CTR.
5. AUTOVON SW CTR maintains seizure toward AUTOVON Interconnection Circuit.			●	○	●	AUTOVON Interconnection Circuit prepared to receive precedence digits.
6. Precedence and PBX LDN digits received.			●	○	○	Precedence audible tone transmitted to line, 812A PBX processes call, determines dialed station is LDN. Off-hook condition returned to AUTOVON SW CTR.
7. After a 3-second time-out, AUTOVON Interconnection Circuit reroutes call to PBX attendant console.			●	○	Ⓟ	Console audible signal sounds, (P) lamp flashes, audible ringing is returned.
8. Console attendant answers.	MO	P	●	○	Ⓟ	Off-hook condition is returned to AUTOVON SW CTR. Console audible signal and ringing are tripped; voice transmission established.

TABLE N

**INCOMING ROUTINE CALL COMPLETED TO PBX STATION — PREEMPTED BY AUTOVON SW CTR REUSE TO PBX STATION — NO ANSWER — CALL REROUTED TO ATTENDANT CONSOLE**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming AUTOVON Interconnection Circuit seizure.			●	○	○	
3. Call precedence digit received.			●	○	●	AUTOVON Interconnection Circuit determines call is routine.
4. PBX dial station digits received.			●	○	●	812A PBX processes call; call connected to dialed station; station bell sounds; audible ringing is returned to calling party.
5. Dialed PBX station goes off-hook.			●	○	●	Ringing trips; an off-hook condition is presented to AUTOVON SW CTR; voice transmission established.
6. AUTOVON Interconnection Circuit preempted by AUTOVON SW CTR.			●	○	●	AUTOVON Interconnection Circuit interrupts connection to dialed PBX station and returns an on-hook condition to AUTOVON SW CTR.
7. AUTOVON SW CTR maintains a seizure toward AUTOVON Interconnection Circuit.			●	○	●	AUTOVON Interconnection Circuit prepares to receive precedence and station digits from AUTOVON SW CTR.
8. Preempted PBX station goes on-hook.			●	○	●	PBX station line circuit released.
9. Precedence and PBX station digits received.			●	○	○	Precedence audible tone transmitted to line. 812A PBX processes call and rings dialed station.
10. Dialed PBX station does not answer.			●	○	○	Station bell rings and PA alert tone remains on line.
11. When no-answer time-out period of 12 to 15 seconds is reached, AUTOVON Interconnection Circuit reroutes call to attendant console.			●	○	⊙60	Connection to PBX station released. Call routed to attendant console. Audible signal operates. PA alert tone returned to calling party.
12. Console attendant answers.	MO	P	●	○	⊙F	Off-hook condition sent to AUTOVON SW CTR. Console audible signal and PA tone trip; voice transmission established.

TABLE N (Cont)

**INCOMING ROUTINE CALL COMPLETED TO PBX STATION — PREEMPTED BY AUTOVON SW  
CTR REUSE TO PBX STATION — NO ANSWER — CALL REROUTED TO ATTENDANT CONSOLE**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
13. Call terminated, attendant releases.			●	○	○	Transmission between attendant and calling party disconnect. On-hook condition returned to AUTOVON SW CTR.
14. Calling party and AUTOVON SW CTR disconnect.			●	●	●	AUTOVON Interconnection Circuit disconnects.

**TABLE P**  
**INCOMING ROUTINE CALL TO LDN EXTENDED TO PBX STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. AUTOVON SW CTR seizes AUTOVON Interconnection Circuit.			●	○	○	Interconnection circuit seized.
3. Precedence digit received.			●	○	●	AUTOVON Interconnection Circuit determines call is routine.
4. PBX LDN digits received.			●	⊙60	●	812A PBX connects call to attendant console, console audible signal operates, audible ringing heard by calling party.
5. Console attendant answers. (Call could be terminated at this point.)	MO	R	●	⊙F	●	Off-hook condition is transmitted to AUTOVON SW CTR. Console audible signal and audible ringing trips; voice transmission established.
6. Attendant transfers call to PBX station.	MO	START	●	⊙F	●	This action excludes AUTOVON SW CTR and prepares 812A PBX to receive station digits.
	O	TT DIAL	●	⊙F	●	812A makes connection. Dialed station bell rings.
7. Dialed station answers.			●	⊙F	●	Ringing trips; voice transmission established between console attendant and dialed PBX station.
8. Console attendant connects calling party to PBX station.	MO	R	●	⊙F	●	Calling party, called party, and attendant connected.
9. Console attendant releases from call.	MO	RLS	●	○	●	Calling party and called party remain connected.
10. Calling party disconnects.			●	●	●	AUTOVON Interconnection Circuit releases.
11. PBX station disconnects.			●	●	●	812A PBX connection releases.

**TABLE R**  
**INCOMING ROUTINE LDN CALL PREEMPTED BY ATTENDANT**  
**BEFORE BEING ANSWERED**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. PBX AUTOVON station dials attendant.			⊙60	●	●	Console audible signal sounds; audible ring heard by calling station.
3. Console attendant answers via attendant trunk.	MO	AT	⊙F	●	●	Voice transmission established between console attendant and station user. Attendant receives request for precedence call.
4. Attendant places station on hold.	MO	HOLD	⊙30	●	●	PBX station on hold — no transmission with attendant.
5. AUTOVON SW CTR seizes AUTOVON Interconnection Circuit.			⊙30	○	○	Interconnection circuit seized.
6. Precedence level received from AUTOVON SW CTR.			⊙30	○	●	AUTOVON Interconnection Circuit determines call is routine. 812A PBX prepares to accept dial code.
7. PBX LDN dial code received.			⊙30	⊙60	●	812A PBX connects call to attendant console. Console audible signal operates. Audible ring heard by calling party.
8. Console attendant preempts incoming unanswered LDN call by operating (P) key.	MO	P	⊙30	⊙60	⊙FF	AUTOVON Interconnection Circuit sends a burst of preempt tone. On-hook signal transmitted to AUTOVON SW CTR.
9. When AUTOVON SW CTR disconnects, it is reseized by AUTOVON Interconnection Circuit.			⊙30	○	⊙F	AUTOVON SW CTR releases routine call. AUTOVON SW CTR reseized, dial tone returned to attendant.
10. Attendant dials requested number.	O	TT DIAL	⊙30	○	⊙F	Call processed. Audible ring heard by attendant.
11. Called party answers.			⊙30	○	⊙F	Ringling trips; voice transmission established.
12. Console attendant connects PBX station to called party.	MO	AT	⊙F	○	⊙F	Calling party, called party, and attendant connected.
13. Console attendant releases from call.	MO	RLS	○	○	○	Calling party and called party remain connected.
14. Call complete, PBX station disconnects.			●	○	○	812A PBX disconnects. On-hook condition sent to AUTOVON SW CTR.
15. Called station and AUTOVON SW CTR disconnect.			●	●	●	AUTOVON Interconnection Circuit disconnects, all lamps extinguish.

**TABLE 5**  
**INCOMING LDN CALL ANSWERED AND EXTENDED TO A PBX STATION**  
**PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. AUTOVON SW CTR seizes AUTOVON Interconnecting Circuit.			●	○	○	Interconnection circuit seized and prepares to receive precedence level digits.
3. Precedence level digit received.			●	○	●	AUTOVON Interconnection Circuit determines call is routine.
4. PBX LDN digits received.			●	⊙60	●	812A PBX connects call to attendant console. Console audible signal sounds. Audible ringing heard by calling party.
5. Console attendant answers.	MO	R	●	⊙F	●	Off-hook forwarded to AUTOVON SW CTR. Console audible signal and audible ring trip; voice transmission established.
6. Console attendant passes call to PBX station.	MO	START	●	⊙F	●	Operation of start key excludes calling party. 812A PBX prepares to receive station digits.
7. Console attendant dials PBX station code.	MO	TT DIAL	●	⊙F	●	PBX makes connection to dialed station. Station bell sounds. Audible ringing heard by console attendant.
8. PBX station answers.			●	⊙F	●	Ringing trips; voice transmission established between console attendant and PBX station user.
9. Calling party restored to connection by console attendant.	MO	R	●	⊙F	●	Calling party, called party and console attendant connected.
10. Console attendant disconnects.	MO	RLS	●	○	●	Console attendant releases from connection, calling party and called party remain connected.
11. PBX AUTOVON station dials console attendant.			⊙60	○	●	Console audible signal operates. Station user hears audible ring.
12. Console attendant answers (receives request for precedence call).	MO	AT	⊙F	○	●	Voice transmission established between user and console attendant.
13. Console attendant places station line on hold.	MO	HOLD	⊙30	○	●	PBX station line on hold — no voice transmission.
14. Attendant preempts the LDN call.	MO	P	⊙30	○	⊙FF	AUTOVON Interconnection Circuit transmits 3-second burst of preemption tone toward called and calling parties. Disconnect signal transmitted to AUTOVON SW CTR.

**TABLE 5 (Cont)**  
**INCOMING LDN CALL ANSWERED AND EXTENDED TO A PBX STATION**  
**PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	F	
15. AUTOVON SW CTR disconnects and immediately reseized by AUTOVON Interconnection Circuit.			Ⓣ 30	○	Ⓣ F	Upon reseizure, AUTOVON SW CTR returns dial tone to console attendant.
16. Attendant dials requested number.	MO	TT DIAL	Ⓣ 30	○	Ⓣ F	812A PBX processes call, and audible ring is returned to console attendant.
17. Called party answers.			Ⓣ 30	○	Ⓣ F	Ringing trips; voice transmission established between attendant and called party.
18. Console connects PBX station to called party.	MO	AT	Ⓣ F	○	Ⓣ F	Calling party, called party, and console attendant connected.
19. Attendant releases from call.	MO	RLS	○	○	○	Calling party and called party remain connected.
20. Call complete, PBX station disconnects.			●	○	○	812A PBX disconnects. On-hook condition sent through AUTOVON SW CTR.
21. Called party and AUTOVON SW CTR disconnect.			●	●	●	AUTOVON Interconnection Circuit disconnects, all lamps extinguish.

**TABLE T**  
**INCOMING ROUTINE CALL TO LDN – PREEMPTED BY AUTOVON SW CTR**  
**BEFORE ATTENDANT ANSWERS – NONREUSE**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming seizure and LDN digits received by AUTOVON Interconnection Circuit.			●	⊙60	●	Connection complete. Audible ring heard by calling party. Console audible signal sounds.
3. Call preempted by AUTOVON SW CTR.			●	○	○	PN tone transmitted by AUTOVON SW CTR. (R) and (P) lamps flash and then go dark.
4. AUTOVON Interconnection Circuit released by AUTOVON SW CTR.			●	●	●	AUTOVON Interconnection Circuit disconnects, all lamps extinguish.

**TABLE U**  
**INCOMING CALL TO LDN AND EXTENDED TO A PBX STATION**  
**PREEMPTED BY AUTOVON SW CTR — NONREUSE**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming seizure and LDN digits received by AUTOVON Interconnection Circuit.			●	⊙60	●	Connection completed. Audible ring heard by calling party. Console audible signal sounds.
3. Console attendant answers.	MO	R	●	⊙F	●	Off-hook condition returned to AUTOVON SW CTR. Ringing trips. Console audible signal silences. Voice transmission established between console attendant and incoming calling party
4. Attendant connects call to a PBX station.	MO	START	●	⊙F	●	Incoming call excluded. 812A PBX in condition to receive station digits. Connection complete. Station bell rings.
5. Called station answers.			●	⊙F	●	Ringing trips ; audible ring ceases. Voice transmission established between attendant and called party.
6. Attendant connects calling party.	MO	R	●	⊙F	●	Calling party, called party, and attendant connected.
7. Attendant disconnects from call.			●	○	●	Calling party and called party remain connected.
8. Call preempted by AUTOVON SW CTR.			●	○	○	AUTOVON Interconnection Circuit disconnects. PN tone sent to calling party and called party. (R) and (P) lamps flash and then go dark.
9. Call complete, AUTOVON Interconnection Circuit released by AUTOVON SW CTR.			●	●	●	AUTOVON Interconnection Circuit disconnects and returns an on-hook condition to AUTOVON SW CTR.
10. PBX station disconnects.			●	●	●	812A PBX disconnects, all lamps extinguish.

**TABLE V**  
**INCOMING CALL TO LDN EXTENDED TO PBX STATION**  
**PREEMPTED BY AUTOVON SW CTR — REUSE TO LDN**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming signal received by the AUTOVON Interconnection Circuit.			●	⊙60	●	Audible ring heard by calling party, console audible signal sounds.
3. Console attendant answers.	MO	R	●	⊙F	●	Ringings trips; console audible signal ceases. Off-hook condition forwarded to AUTOVON SW CTR.
4. Attendant extends call to a PBX station.	MO	START	●	⊙F	●	Calling party excluded, 812A PBX conditioned to receive station digits. Connection completed, called station bell rings.
5. Called station answers.			●	⊙F	●	Ringings trips; voice transmission established between console attendant and called party.
6. Attendant connects calling party.	MO	R	●	⊙F	●	Calling party, called party, and attendant connected.
7. Attendant releases from connection.	MO	RLS	●	○	●	Calling party and called party remain connected.
8. AUTOVON SW CTR preempts AUTOVON Interconnection Circuit for reuse.			●	○	●	AUTOVON Interconnection Circuit causes release of PBX station, transmits PN tone on line, and forwards an on-hook condition to AUTOVON SW CTR.
9. AUTOVON SW CTR maintains seizure toward AUTOVON Interconnection Circuit.			●	○	●	AUTOVON Interconnection Circuit prepared to receive precedence level tone and dial code.
10. Precedence digit and PBX LDN digit dial code received.			⊙60	○	⊙60	PN tone imposed on line, 812A PBX processes call. Call connected to attendant console.
11. Console attendant answers.	MO	P	●	○	⊙F	Off-hook condition forwarded to AUTOVON SW CTR. Ringings trips; voice transmission established between attendant and calling party.
12. Call terminated, calling party goes on-hook.			●	●	●	AUTOVON Interconnection Circuit and 812A PBX connections release.

**TABLE W**  
**INCOMING ROUTINE CALL TO A PBX STATION**  
**STATION TRANSFERS CALL TO CONSOLE ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming seizure by AUTOVON SW CTR.			●	○	○	(R) and (P) lamps light.
3. Precedence level digit and PBX station digits received.			●	○	●	AUTOVON Interconnection Circuit determines call is routine. Call is connected to PBX station.
4. Called station answers.			●	○	●	Ringling trips; off-hook condition returned to AUTOVON SW CTR. Voice transmission established between called and calling parties.
5. Station flashes attendant.	MO	STA. SW. HOOK	●	⊙60	●	Station flashes attendant by momentary operation of the station set switchhook, audible ringing heard at station, and console audible signal sounds.
6. Console attendant answers.	MO	R	●	⊙F	●	Ringling trips; calling party, called party, and attendant connected.
7. Call may be terminated at this time or transferred to another station.			●	⊙F	●	Lamp condition when call transferred to another station.
			●	●	●	Lamp condition when call terminated.

**TABLE X**  
**INCOMING ROUTINE CALL TO LDN — PREEMPTED BY ATTENDANT**  
**AFTER ANSWER**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming seizure and precedence digit received by AUTOVON Interconnection Circuit.			●	○	○	AUTOVON Interconnection Circuit seized, determines call is routine.
3. LDN digits received.			●	⊙60	●	812A PBX completes connection to console. Audible ring heard by calling party. Console audible signal sounds.
4. Console attendant answers.	MO	R	●	⊙F	●	Ringing trips. Off-hook condition returned to AUTOVON SW CTR; voice transmission established between calling party and console attendant.
5. A PBX station goes off-hook, dials console attendant to make a precedence call.			⊙60	⊙F	●	812A PBX connects station user to attendant console. Console audible signal sounds. Calling party hears audible ring.
6. Attendant places LDN call on hold.	MO	HOLD	⊙60	⊙30	●	
7. Console attendant answers AUTOVON attendant trunk.	MO	AT	⊙F	⊙30	●	Ringing trips, voice transmission established between console attendant and station user.
8. Attendant places AUTOVON attendant trunk on hold.	MO	HOLD	⊙30	⊙30	●	
9. Console attendant preempts incoming routine LDN call already answered at another attendant position.	MO	P	⊙30	⊙30	⊙FF	AUTOVON Interconnection Circuit sends preempt notification tone, interrupts routine incoming LDN call, transmits on-hook condition to AUTOVON SW CTR.
10. AUTOVON SW CTR disconnects.			⊙30	○	⊙F	On-hook signal returned by AUTOVON SW CTR. AUTOVON Interconnection Circuit reseizes AUTOVON trunk. Dial tone returned.
11. Console attendant dials requested number.	O	TT DIAL	⊙30	○	⊙F	Call processed by AUTOVON SW CTR. Connection completed to called station.

**TABLE X (Cont)**  
**INCOMING ROUTINE CALL TO LDN — PREEMPTED BY ATTENDANT**  
**AFTER ANSWER**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
12. Called station answers.			(30)	○	(F)	Off-hook condition received by AUTOVON Interconnection Circuit. Ringing trips; voice transmission established between called party and console attendant.
13. Attendant connects calling and called parties.	MO	AT	(F)	○	(F)	Calling party, called party, and console attendant connected.
14. Attendant releases from connection.	MO	RLS	○	○	○	Calling party and called party remain connected.
15. Call complete, AUTOVON station disconnects.			○	●	●	On-hook condition is received from AUTOVON SW CTR. AUTOVON Interconnection Circuit disconnects.
16. PBX station disconnects.			●	●	●	PBX station line and attendant trunk release, all lamps extinguish.

**TABLE Y**  
**INCOMING ROUTINE CALL TO PBX STATION — CALL ABANDONED**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. Incoming seizure to AUTOVON Interconnection Circuit.			●	○	●	Off-hook condition received by AUTOVON Interconnection Circuit. Call determined routine and 812A PBX passes call to station.
3. Call abandoned by calling party.			●	●	●	AUTOVON Interconnection Circuit receives on-hook condition from AUTOVON SW CTR, releases connection and disconnects.

**TABLE AA**  
**INCOMING PRECEDENCE CALL TO BUSY PBX STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. AUTOVON Interconnection Circuit seized by AUTOVON SW CTR. Precedence and station digits received.			●	○	○	AUTOVON Interconnection Circuit determines call is precedence, sends precedence audible tone to AUTOVON SW CTR.
3. Incoming precedence call routed to busy PBX station.			●	○	○	812A PBX processes call, determines called station is busy. Returns busy signal to AUTOVON Interconnection Circuit.
4. AUTOVON Interconnection Circuit receives busy signal from 812A PBX. Call is routed to attendant.			●	○	Ⓟ	Console audible signal sounds.
5. Console attendant answers.	MO	P	●	○	Ⓟ	Off-hook condition forwarded to AUTOVON SW CTR. Ringing trips; voice transmission established between calling party and console attendant.
6. Call may be terminated at this point.			●	●	●	AUTOVON SW CTR goes on-hook, AUTOVON Interconnection Circuit disconnects.

**TABLE AB**  
**INCOMING PRECEDENCE CALL TO A PBX STATION – NO ANSWER**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle condition.			●	●	●	Keys normal, all lamps dark.
2. AUTOVON SW CTR seizes AUTOVON Interconnection Circuit. Precedence and station digits received.			●	○	○	AUTOVON Interconnection Circuit determines call is precedence call. 812A PBX prepares to receive call.
3. 812A PBX routes call to the dialed station.			●	○	⓪	Precedence audible tone sent to AUTOVON SW CTR. Station bell rings. After 12- to 15-second no-answer time-out interval, call rerouted to attendant console.
4. Console attendant answers.			●	○	Ⓜ	Ringling trips, off-hook condition returned to AUTOVON SW CTR. Voice transmission established between calling party and console attendant.
5. Call terminated by on-hook condition from AUTOVON SW CTR.			●	●	●	AUTOVON Interconnection Circuit disconnects, all lamps extinguish.

**TABLE AC**  
**INCOMING PRECEDENCE CALL TO LDN — EXTENDED TO PBX STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. AUTOVON SW CTR seizes AUTOVON Interconnection Circuit.			●	○	○	AUTOVON Interconnection Circuit determines call is precedence call.
3. Precedence digit and LDN digits received.			●	○	Ⓞ	AUTOVON Interconnection Circuit routes call to attendant. Console audible signal sounds.
4. Console attendant answers.	MO	P	●	○	Ⓞ	Ringling trips. Off-hook condition returned to AUTOVON SW CTR. Voice transmission established between calling party and attendant.
5. Attendant passes call to PBX station.	MO	START	●	○	Ⓞ	Operation of start key excludes AUTOVON SW CTR. prepares 812A PBX to receive station digit.
6. Attendant dials station digits.	O	TT DIAL	●	○	Ⓞ	PBX makes connection to station, activates station bell, and returns audible ringing to attendant.
7. Dialed station answers.			●	○	Ⓞ	Ringling trips; voice transmission established between attendant and PBX station.
8. Calling party added to connection.	MO	P	●	○	Ⓞ	Calling party, called party, and attendant connected.
9. Console attendant releases from connection.	MO	RLS	●	○	○	Calling party and called party remain connected.
10. Call complete, PBX station disconnects.			●	○	○	812A PBX disconnects. On-hook sent to AUTOVON SW CTR.
11. Calling party and AUTOVON SW CTR disconnect.			●	●	●	AUTOVON Interconnection Circuit disconnects.

**TABLE AD**  
**INCOMING PRECEDENCE CALL TO PBX STATION – TRANSFERRED TO ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. AUTOVON SW CTR seizes AUTOVON Interconnection Circuit.			●	○	○	Precedence audible tone transmitted to line. (R) and (P) lamps light. AUTOVON Interconnection Circuit determines call is precedence call.
3. Precedence digit and PBX station number received.			●	○	○	812A PBX completes connection to PBX station. Station bell sounds.
4. Dialed station answers.			●	○	○	Ringling trips. Off-hook condition returned to AUTOVON SW CTR. Voice transmission established between calling and called parties.
5. PBX station flashes for attendant.	MO	STA. SW. HOOK	●	○	⊙60	Audible ringing heard by calling party. Console audible signal sounds.
6. Console attendant answers.	MO	P	●	○	⊙F	Ringling trips. Calling party, called party, and attendant connected.
7. PBX station releases.			●	○	⊙F	PBX station releases from connection, attendant and calling party remain connected.
8. Call terminated, attendant releases.	MO	RLS	●	○	○	Attendant releases from connection. On-hook condition returned to AUTOVON SW CTR.
9. AUTOVON SW CTR releases.			●	●	●	AUTOVON Interconnection Circuit releases. All lamps extinguished.

TABLE AE

**INCOMING PRECEDENCE CALL TO PBX STATION PREEMPTED BY A  
HIGHER LEVEL PRECEDENCE TO PBX STATION – NO ANSWER**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. AUTOVON SW CTR seizes AUTOVON Interconnection Circuit.			●	○	○	Precedence audible tone transmitted to line. (R) and (P) lamps light. AUTOVON Interconnection Circuit determines call is precedence.
3. Precedence digit and PBX station digits received.			●	○	○	812A PBX completes connection to dialed station. Station bell rings. Audible tone heard by calling party.
4. Dialed station answers.			●	○	○	Ringling trips. Off-hook condition returned to AUTOVON SW CTR. Voice transmission established between called and calling parties.
5. AUTOVON Interconnection Circuit preempted by AUTOVON SW CTR.			●	○	○	AUTOVON Interconnection Circuit releases from PBX. On-hook condition returned to AUTOVON SW CTR.
6. AUTOVON SW CTR maintains seizure toward AUTOVON Interconnection Circuit.			●	○	○	AUTOVON Interconnection Circuit prepares to receive precedence digit and station digits.
7. Preempted station goes on-hook.			●	○	○	PBX station line circuit releases.
8. Precedence digit and PBX digits received.			●	○	○	812A PBX connects incoming precedence call to dialed PBX station.
9. PBX station does not answer.			●	○	○	Station audible signal sounds. PA tone remains on line.
10. After 12- to 15-second no-answer time-out period, AUTOVON Interconnection Circuit reroutes call to attendant console.			●	○	⓪	Connection to PBX station released. Call routed to console. Console audible signal activates. Calling party hears precedence audible tone.
11. Console attendant answers.	MO	P	●	○	⓪	Off-hook condition returned to AUTOVON SW CTR. Console audible signal trips. Precedence audible tone removed from line. Voice transmission established between calling party and attendant.
12. Attendant terminates call.	MO	RLS	●	○	○	Attendant releases. On-hook condition returned to AUTOVON SW CTR.

**TABLE AE (Cont)**  
**INCOMING PRECEDENCE CALL TO PBX STATION PREEMPTED BY A  
 HIGHER LEVEL PRECEDENCE TO PBX STATION – NO ANSWER**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
13. Calling party and AUTOVON SW CTR disconnect.			●	●	●	AUTOVON Interconnection Circuit disconnects. All lamps extinguish.

**TABLE AF**  
**INCOMING PRECEDENCE CALL TO PBX STATION — PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. AUTOVON SW CTR seizes AUTOVON Interconnection Circuit.			●	○	○	Precedence audible tone transmitted to line. (R) and (P) lamps light. AUTOVON Interconnection Circuit determines call to have precedence.
3. Precedence digit and PBX station digits received.			●	○	○	812A PBX routes call to dialed station. Station bell rings. Precedence audible tone remains on line.
4. Dialed station answers.			●	○	○	Ringing trips. Precedence audible tone removed. Off-hook condition returned to AUTOVON SW CTR.
5. Second PBX station dials attendant requesting precedence call.			⓪	○	○	Console audible signal sounds. Calling station hears audible ring.
6. Console attendant answers.	MO	AT	⓪	○	○	Voice transmission established between console attendant and calling party.
7. Attendant places AUTOVON attendant trunk on hold.	MO	HOLD	⓪	○	○	
8. Console attendant preempts incoming precedence call by asking the talking parties to hang up.	MO	P	⓪	○	⓪	A precedence call via an AUTOVON Interconnection Circuit can only be preempted by console attendant on a BARGE-IN basis.
9. First PBX station disconnects.			⓪	○	⓪	PBX station line circuit releases connection.
10. AUTOVON SW CTR disconnects.			⓪	●	●	AUTOVON Interconnection Circuit disconnects.
11. Console attendant initiates outgoing precedence call.	MO	P	⓪	○	⓪	AUTOVON Interconnection Circuit re-seized which in turn seizes AUTOVON SW CTR. Dial tone returned.
12. Attendant dials requested number.	O	TT DIAL	⓪	○	⓪	Called station bell rings. Precedence audible ringing from AUTOVON SW CTR heard by attendant.
13. Called party answers.			⓪	○	⓪	Ringing trips; voice transmission established between called party and console attendant.
14. Attendant connects attendant trunk to AUTOVON SW CTR.	MO	AT	⓪	○	⓪	Calling party, called party, and console attendant connected.

**TABLE AF (Cont)**  
**INCOMING PRECEDENCE CALL TO PBX STATION – PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
15. Attendant releases from connection.	MO	RLS	○	○	○	Called party and calling party remain connected.
16. Call completed, calling station disconnects first.			●	○	○	812A PBX disconnects. On-hook condition returned to AUTOVON SW CTR.
17. Called station disconnects.			●	●	●	AUTOVON Interconnection Circuit disconnects.

**TABLE AG**  
**OUTGOING ROUTINE CALL FROM PBX STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX station goes off-hook.			●	●	●	Station receives dial tone from 812A PBX.
3. Station user dials AUTOVON access code.			●	○	●	812A PBX connects station to AUTOVON Interconnection Circuit. Off-hook condition forwarded to AUTOVON SW CTR. Dial tone returned by AUTOVON SW CTR.
4. Station dials desired digits to complete call through AUTOVON SW CTR.			●	○	●	AUTOVON SW CTR completes connection, rings station bell of called party and returns audible ring to calling party.
5. Calling party answers.			●	○	●	AUTOVON Interconnection Circuit receives off-hook condition from AUTOVON SW CTR. Voice transmission established.
6. Call complete, called station disconnects.			●	○	●	AUTOVON SW CTR returns on-hook condition to AUTOVON Interconnection Circuit. 812A PBX releases station connection.
7. PBX station goes on-hook.			●	●	●	PBX station line circuit releases.

TABLE AH

## OUTGOING ROUTINE CALL FROM PBX STATION PREEMPTED BY ATTENDANT

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX station goes off-hook.			●	●	●	Station receives dial tone from 812A PBX.
3. Station user dials routine AUTOVON code.			●	○	●	812A PBX connects station to AUTOVON Interconnection Circuit. Off-hook condition forwarded to AUTOVON SW CTR. Dial tone returned by AUTOVON SW CTR.
4. Station dials desired code to complete call through AUTOVON SW CTR.			●	○	●	AUTOVON SW CTR completes connection, rings station bell of called party, and returns audible ring to calling party.
5. Calling party answers.			●	○	●	AUTOVON Interconnection Circuit receives off-hook condition from AUTOVON SW CTR. Voice transmission established.
6. Another PBX station goes off-hook.			●	○	●	Station receives dial tone from 812A PBX.
7. PBX station dials attendant trunk code.			⓪	○	●	812A completes connection to attendant trunk. Console audible signal sounds. Audible ring returned to calling party.
8. Console attendant answers.	MO	AT	⓪	○	●	Ringing trips ; voice transmission established. Calling party requests precedence call.
9. Attendant trunk placed on hold.	MO	HOLD	⓪	○	●	
10. Attendant preempts routine AUTOVON call.	MO	P	⓪	○	⓪	AUTOVON Interconnection Circuit transmits 3-second preempt notification tone to both parties of preempted call. Connection broken to first PBX station. On-hook condition sent to AUTOVON SW CTR.
11. AUTOVON SW CTR disconnects and is reseized by AUTOVON Interconnection Circuit.			⓪	○	⓪	AUTOVON SW CTR reseized. Dial tone returned to console attendant.
12. Preempted PBX station disconnects.			⓪	○	⓪	PBX station line circuit disconnects.
13. Attendant dials requested precedence call.	O	TT DIAL	⓪	○	⓪	Called station bell rings. Console attendant hears audible ring.

**TABLE AH (Cont)**  
**OUTGOING ROUTINE CALL FROM PBX STATION PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
14. Called party answers.			(30)	○	(F)	Ringling trips, off-hook condition returned to AUTOVON Interconnection Circuit. Voice transmission established between called party and console attendant.
15. Console attendant connects attendant trunk to AUTOVON Interconnection Circuit.	MO	AT	(F)	○	(F)	Calling party, called party, and console attendant connected.
16. Attendant releases from connection.	MO	RLS	○	○	○	Calling party and called party remain connected.
17. Call complete, calling station disconnects.			●	○	○	812A PBX disconnects. On-hook condition sent to AUTOVON SW CTR.
18. Called station disconnects.			●	●	●	AUTOVON Interconnection Circuit disconnects. All lamps extinguish.

**TABLE A1**  
**OUTGOING ROUTINE CALL FROM PBX STATION PREEMPTED BY**  
**AUTOVON SW CTR – NONREUSE**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX station goes off-hook.			●	●	●	Station receives dial tone from 812A PBX.
3. PBX station dials AUTOVON access code.			●	○	●	812A PBX connects station to AUTOVON Interconnection Circuit. Off-hook condition forwarded to AUTOVON SW CTR. Dial tone returned by AUTOVON SW CTR.
4. Station dials desired code to complete call through AUTOVON SW CTR.			●	○	●	AUTOVON SW CTR completes connection, rings station bell of called party, and returns audible ring to calling party.
5. Calling party answers.			●	○	●	AUTOVON Interconnection Circuit receives off-hook condition from AUTOVON SW CTR. Voice transmission established.
6. AUTOVON SW CTR preempts AUTOVON Interconnection Circuit.			●	○	○	AUTOVON Interconnection Circuit receives preempt notification tone from AUTOVON SW CTR. Preempted PBX station disconnects and returns on-hook condition to CO.
7. AUTOVON SW CTR disconnects.			●	●	●	AUTOVON Interconnection Circuit disconnects.
8. Preempted PBX station goes on-hook.			●	●	●	PBX station line circuit releases.

TABLE AJ

**OUTGOING ROUTINE CALL FROM PBX STATION — PREEMPTED BY  
AUTOVON SW CTR REUSE TO PBX STATION — NO ANSWER — REROUTED  
TO ANOTHER PBX STATION — TRANSFERRED TO ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX station goes off-hook.			●	●	●	Station receives dial tone from 812A PBX.
3. PBX station user dials routine AUTOVON code.			●	○	●	812A PBX connects station to AUTOVON Interconnection Circuit. Off-hook condition forwarded to AUTOVON SW CTR. Dial tone returned by AUTOVON SW CTR.
4. Station dials desired digits to complete call through AUTOVON SW CTR.			●	○	●	AUTOVON SW CTR completes connection, rings station bell of called party, and returns audible ring to calling party.
5. Calling party answers.			●	○	●	AUTOVON Interconnection Circuit receives off-hook condition from AUTOVON SW CTR. Voice transmission established.
6. AUTOVON SW CTR preempts AUTOVON Interconnection Circuit reuse to PBX.			●	○	●	AUTOVON Interconnection Circuit receives preempt notification tone from AUTOVON SW CTR.
7. AUTOVON SW CTR maintains off-hook condition to AUTOVON Interconnection Circuit.			●	○	○	PBX station disconnects, returns on-hook condition to AUTOVON SW CTR.
8. Preempted PBX station goes on-hook.			●	○	○	PBX station line circuit disconnects.
9. Precedence digit and PBX station digits received by 812A PBX.			●	○	○	PBX processes call to PBX station. Station bell sounds. Audible ring is heard.
10. Called station does not answer, after 12- to 15-second time-out, call rerouted to attendant.			●	○	⊙	AUTOVON Interconnection Circuit automatically reroutes call to attendant after time-out period. Console audible signal sounds.
11. Console attendant answers.			●	○	⊙	Ringing trips; voice transmission established.
12. Attendant passes call to another PBX station.	MO	START	●	○	⊙	Calling party excluded from attendant.
13. Attendant dials PBX station code.	0	TT DIAL	●	○	⊙	PBX processes call. Station bell rings. Audible ring returned to attendant.

TABLE AJ (Cont)

**OUTGOING ROUTINE CALL FROM PBX STATION — PREEMPTED BY  
AUTOVON SW CTR REUSE TO PBX STATION — NO ANSWER — REROUTED  
TO ANOTHER PBX STATION — TRANSFERRED TO ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
14. Dialed station answers.			●	○	⊙ <sub>F</sub>	Ringling trips; voice transmission established between called party and attendant.
15. Attendant adds calling party.	MO	P	●	○	⊙ <sub>F</sub>	Calling party, called party, and attendant connected.
16. Attendant releases from connection.	MO	RLS	●	○	○	Calling party and called party remain connected.
17. PBX station transfers call back to attendant.	MO	STA. SW. HOOK	●	○	⊙ <sub>60</sub>	Console audible signal sounds. PBX station hears audible ring.
18. Attendant answers attendant trunk.	MO	P	●	○	⊙ <sub>F</sub>	Ringling trips, 3-way connection established.
19. PBX station disconnects.			●	○	⊙ <sub>F</sub>	PBX station releases. AUTOVON SW CTR and attendant remain connected.
20. Call terminated, attendant releases.	MO	RLS	●	○	○	Attendant releases, on-hook condition returned to AUTOVON SW CTR.
21. AUTOVON SW CTR disconnects, returns on-hook to AUTOVON Interconnection Circuit.			●	●	●	AUTOVON Interconnection Circuit releases. All lamps extinguish.

**TABLE AK**  
**OUTGOING ROUTINE CALL FROM PBX TIE TRUNK**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX tie trunk seizes PBX dial tone and dials AUTOVON access code.			●	○	●	Tie trunk seizes AUTOVON Interconnection Circuit. AUTOVON Interconnection Circuit seizes AUTOVON SW CTR and dial tone is returned.
3. Tie trunk user dials AUTOVON station digits.			●	○	●	Connection completed, station ringer sounds. Audible ringing returned.
4. AUTOVON station answers.			●	○	●	Ringing trips; AUTOVON SW CTR returns off-hook condition to AUTOVON Interconnection Circuit.
5. Call complete, tie trunk disconnects.			●	○	●	Tie trunk connection to AUTOVON Interconnection Circuit releases. On-hook returned to AUTOVON SW CTR.
6. AUTOVON station goes on-hook.			●	●	●	On-hook returned to AUTOVON Interconnection Circuit, circuit releases. All lamps extinguish.

**TABLE A1**  
**OUTGOING ROUTINE CALL FROM PBX TIE TRUNK PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX tie trunk seizes PBX dial tone and dials AUTOVON routine code.			●	○	●	Tie trunk seizes AUTOVON Interconnection Circuit. AUTOVON Interconnection Circuit seizes AUTOVON SW CTR, dial tone returned.
3. Tie trunk user dials AUTOVON station code.			●	○	●	Connection completed, station ringer sounds, audible ringing returned.
4. AUTOVON station answers.			●	○	●	Ringing trips; AUTOVON SW CTR returns off-hook condition to AUTOVON Interconnection Circuit.
5. PBX station user dials AUTOVON attendant trunk to make precedence call.			⓪	○	●	Console audible signal sounds. Calling party hears audible ring.
6. Console attendant answers.	MO	AT	⓪	○	●	Ringing trips; voice transmission established. Station user requests precedence call.
7. Console attendant places AUTOVON attendant trunk on hold.	MO	HOLD	⓪	○	●	
8. Attendant preempts AUTOVON routine call.	MO	P	⓪	○	⓪	AUTOVON Interconnection Circuit transmits 3-second preempt notification tone toward both parties of preempted call. Connection to preempted PBX station broken. On-hook condition sent to AUTOVON SW CTR.
9. Attendant hears dial tone.			⓪	○	⓪	AUTOVON SW CTR disconnects, reseeded by AUTOVON Interconnection Circuit. Dial tone returned.
10. Tie trunk disconnects.			⓪	○	⓪	PBX tie trunk circuit releases.
11. Attendant dials requested precedence call.	O	TT DIAL	⓪	○	⓪	Called station bell sounds. Audible ring heard by attendant.
12. Called station answers.			⓪	○	⓪	Ringing trips. Off-hook condition returned to AUTOVON Interconnection Circuit. Voice transmission established.

**TABLE AL (Cont)**  
**OUTGOING ROUTINE CALL FROM PBX TIE TRUNK PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
13. Console attendant connects attendant trunk to AUTOVON Interconnection Circuit.	MO	AT	⊙ F	○	⊙ F	Calling party, called party, and attendant connected.
14. Attendant releases from connection.	MO	RLS	○	○	○	Calling party and called party remain connected.
15. Call complete, calling station disconnects first.			●	○	○	812A PBX releases and sends on-hook condition to AUTOVON SW CTR.
16. Called station disconnects.			●	●	●	AUTOVON Interconnection Circuit returns to idle. All lamps extinguish.

**TABLE AM**  
**OUTGOING ROUTINE CALL FROM TIE TRUNK PREEMPTED BY**  
**AUTOVON SW CTR – REUSE TO LDN**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX tie trunk seizes PBX dial tone and dials AUTOVON routine access code.			●	○	●	Tie trunk seizes AUTOVON Interconnection Circuit. AUTOVON Interconnection Circuit seizes AUTOVON SW CTR. Dial tone is returned.
3. Tie trunk user dials AUTOVON station code.			●	○	●	Connection completed, station ringer sounds, audible ringing returned.
4. AUTOVON station answers.			●	○	●	Ringing trips, AUTOVON SW CTR returns off-hook condition to AUTOVON Interconnection Circuit.
5. AUTOVON SW CTR preempts AUTOVON Interconnection Circuit for reuse to PBX.			●	○	●	AUTOVON Interconnection Circuit receives preempt notification tone from AUTOVON SW CTR. AUTOVON Interconnection Circuit recognizes off-hook condition, disconnects PBX tie trunk, returns on-hook condition to AUTOVON SW CTR.
6. AUTOVON SW CTR maintains off-hook condition toward AUTOVON Interconnection Circuit.			●	○	○	Precedence audible tone remains on line.
7. Precedence Digit and LDN digits received.			●	○	Ⓢ60	Connection to PBX console complete. Console audible signal sounds.
8. Tie trunk disconnects.			●	○	Ⓢ60	
9. Console attendant answers.	MO	P	●	○	ⓈF	Ringing trips, AUTOVON Interconnection Circuit returns off-hook condition to AUTOVON SW CTR.
10. Call terminated, attendant releases.	MO	RLS	●	○	○	AUTOVON Interconnection Circuit returns on-hook condition to AUTOVON SW CTR.
11. AUTOVON SW CTR disconnects.			●	●	●	AUTOVON Interconnection Circuit releases. All lamps extinguish.

**TABLE AN**  
**OUTGOING ROUTINE CALL FROM PBX AUTOVON ATTENDANT TRUNK**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX station dials AUTOVON attendant trunk.			⊙60	●	●	Console audible signal sounds, station user receives audible ring.
3. Console attendant answers.	MO	AT	⊙F	●	●	Ringling trips; voice transmission established between station user and attendant.
4. Attendant places AUTOVON attendant trunk on hold.	MO	HOLD	⊙30	●	●	
5. Attendant places routine AUTOVON call.	MO	R	⊙30	⊙F	●	AUTOVON Interconnection Circuit seized by PBX. Off-hook condition transmitted to AUTOVON SW CTR which returns dial tone.
6. Attendant dials requested AUTOVON number.	O	TT DIAL	⊙30	⊙F	●	Station bell rings at called station, audible ring returned to attendant.
7. Called station answers.			⊙30	⊙F	●	Ringling trips; off-hook condition returned to AUTOVON Interconnection Circuit. Voice transmission established between called party and attendant.
8. Attendant connects calling party.	MO	AT	⊙F	⊙F	●	Calling party, called party, and attendant connected.
9. Attendant releases from connection.	MO	RLS	○	○	●	Calling party and called party remain connected.
10. Call complete, PBX station disconnects first.			●	○	●	PBX station line and attendant trunk release. On-hook condition sent to AUTOVON SW CTR.
11. AUTOVON SW CTR disconnects.			●	●	●	AUTOVON SW CTR forwards on-hook to the AUTOVON Interconnection Circuit which releases. All lamps extinguish.

**TABLE AP**  
**OUTGOING ROUTINE CALL FROM PBX ATTENDANT TRUNK**  
**PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX station dials AUTOVON attendant trunk.			⊙60	●	●	Console audible signal sounds. Station user receives audible ring.
3. Console attendant answers.	MO	AT	⊙F	●	●	Ringing trips; voice transmission established between station user and attendant.
4. Attendant places AUTOVON attendant trunk on hold.	MO	HOLD	⊙30	●	●	
5. Attendant places routine AUTOVON call.	MO	R	⊙30	⊙F	●	AUTOVON Interconnection Circuit seized by PBX. Off-hook condition transmitted to AUTOVON SW CTR which returns dial tone.
6. Attendant dials requested AUTOVON number.	O	TT DIAL	⊙30	⊙F	●	Station bell rings at called station, audible ring returned to attendant.
7. Called station answers.			⊙30	⊙F	●	Ringing trips; off-hook condition returned to AUTOVON Interconnection Circuit. Voice transmission established between called party and attendant.
8. Attendant connects calling party.	MO	AT	⊙F	⊙F	●	Calling party, called party, and attendant connected.
9. Attendant releases from connection.	MO	RLS	○	○	●	Calling party and called party remain connected.
10. A PBX station places outgoing call dials attendant on attendant AUTOVON trunk. Repeat Steps 2-4 on a second attendant trunk.			⊙30	○	●	Transmission between second attendant trunk and PBX station opened.
11. Second attendant trunk answered and placed on hold.	MO	AT	⊙F	○	●	
	MO	HOLD	⊙30	○	●	
12. Attendant preempts routine call made via attendant trunk.	MO	P	⊙30	○	⊙FF	AUTOVON Interconnection Circuit transmits a 3-second preempt notification tone toward both parties who are being preempted. Attendant trunk connection releases. Off-hook condition sent toward AUTOVON SW CTR.

**TABLE AP (Cont)**  
**OUTGOING ROUTINE CALL FROM PBX ATTENDANT TRUNK**  
**PREEMPTED BY ATTENDANT**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
13. Attendant hears dial tone.			Ⓣ	○	Ⓣ	AUTOVON SW CTR disconnects; reseeded by AUTOVON Interconnection Circuit. Dial tone returned.
14. Preempted PBX station disconnects.			Ⓣ	○	Ⓣ	PBX station line circuit releases.
15. Attendant dials requested precedence call.	O	TT DIAL	Ⓣ	○	Ⓣ	Connection to requested station completed. PA tone heard by attendant. Called station bell sounds.
16. Called station answers.			Ⓣ	○	Ⓣ	Ringling trips; PA tone removed. Off-hook condition returned to AUTOVON SW CTR.
17. Attendant connects calling party.	MO	AT	Ⓣ	○	Ⓣ	Calling party, called party, and attendant connected.
18. Attendant releases from connection.	MO	RLS	○	○	○	Calling party and called party remain connected.
19. Call complete, AUTOVON SW CTR disconnects first.			○	●	●	AUTOVON SW CTR returns on-hook condition to AUTOVON Interconnection Circuit which releases.
20. PBX station disconnects.			●	●	●	PBX station line circuit releases. All lamps extinguish.

TABLE AR

**OUTGOING ROUTINE CALL FROM ATTENDANT TRUNK PREEMPTED BY AUTOVON SW CTR —  
REUSE TO PBX STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. A PBX station dials an AUTOVON attendant trunk.			⊙60	●	●	Console audible signal sounds, calling party hears audible ring.
3. Console attendant answers. Receives request for outgoing call.	MO	AT	⊙F	●	●	Ringing trips; voice transmission established.
4. Attendant places AUTOVON attendant trunk on hold.	MO	HOLD	⊙30	●	●	Transmission path from attendant to calling party is opened.
5. Attendant places routine AUTOVON call.	MO	R	⊙30	⊙F	●	AUTOVON Interconnection Circuit seized. Off-hook condition sent toward AUTOVON SW CTR which returns dial tone.
6. Attendant dials requested AUTOVON station number.	O	TT DIAL	⊙30	⊙F	●	Connection complete, station bell rings, attendant receives audible ring.
7. Called station answers.			⊙30	⊙F	●	Ringing trips; off-hook condition returned to AUTOVON Interconnection Circuit.
8. Attendant connects calling party.	MO	AT	⊙F	⊙F	●	Calling party, called party and attendant connected.
9. Attendant releases from call.	MO	RLS	○	○	●	Calling party and called party remain connected.
10. AUTOVON SW CTR preempts AUTOVON Interconnection Circuit for reuse to PBX station.	O	P	○	○	●	AUTOVON SW CTR transmits 3-second burst of preempt notification tone. AUTOVON Interconnection Circuit receives on-hook flash, opens transmission path to attendant trunk, returns on-hook to AUTOVON SW CTR.
11. Precedence digit and PBX station digits received by AUTOVON Interconnection Circuit.			○	○	○	AUTOVON Interconnection Circuit forwards dial station code to 812A PBX. PBX completes connection. Station bell rings.
12. PBX station making routine call via attendant trunk disconnects.			●	○	○	PBX station line circuit and attendant trunk release.
13. PBX station receiving precedence call answers.			●	○	○	Ringing trips; PA tone removed. Off-hook condition returned to AUTOVON SW CTR. Voice transmission established.

TABLE AR (Cont)

**OUTGOING ROUTINE CALL FROM ATTENDANT TRUNK PREEMPTED BY AUTOVON SW CTR —  
REUSE TO PBX STATION**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
14. Precedence call complete, PBX station disconnects first.			●	○	○	PBX station line circuit releases. AUTOVON Interconnection Circuit releases. On-hook sent to AUTOVON SW CTR.
15. AUTOVON SW CTR disconnects.			●	●	●	All lamps extinguish.

TABLE AS

**OUTGOING ROUTINE CALL FROM PBX STATION — ABANDONED**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX station goes off-hook.			●	●	●	Dial tone received from 812A PBX.
3. PBX station dials routine AUTOVON code.			●	○	●	812A PBX connects station to AUTOVON Interconnection Circuit. Off-hook condition sent to AUTOVON SW CTR. AUTOVON SW CTR returns dial tone.
4. Station dials number to complete call and then abandons.			●	○	●	PBX and AUTOVON Interconnection Circuit forward on-hook condition to AUTOVON SW CTR.
5. AUTOVON SW CTR releases.			●	●	●	All lamps extinguish.

**TABLE AT**  
**OUTGOING PRECEDENCE CALL PLACED BY ATTENDANT FOR A STATION**

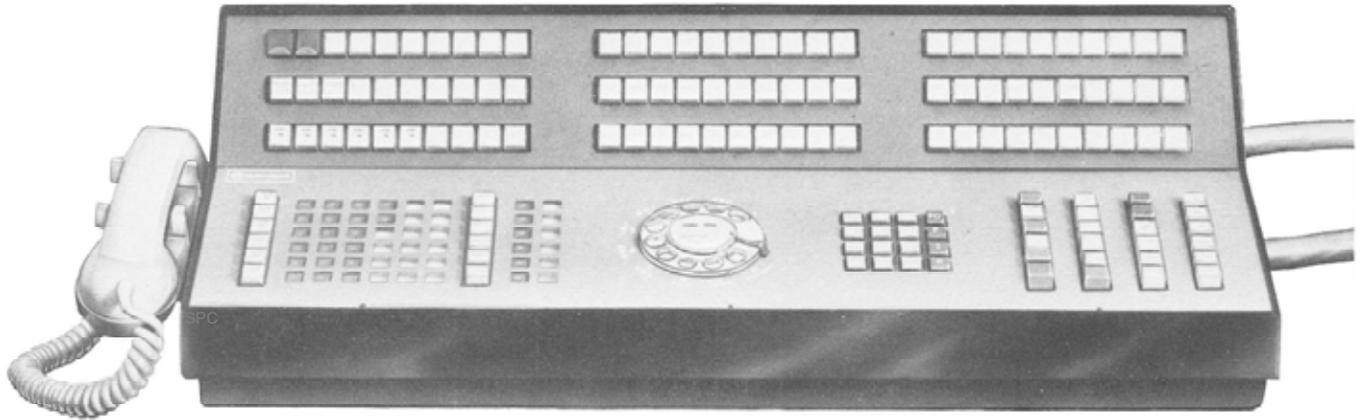
CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX station dials attendant trunk code to request outgoing precedence call.			⓪	●	●	Console audible signal sounds, PBX station user hears audible ring.
3. Console attendant answers.	MO	AT	⓪	●	●	Ringing trips; voice transmission established between attendant and PBX station user.
4. Attendant places PBX station on hold.	MO	HOLD	⓪	●	●	
5. Attendant initiates precedence call.	MO	P	⓪	●	⓪	AUTOVON Interconnection Circuit seizure forwards off-hook condition to AUTOVON SW CTR.
6. AUTOVON SW CTR seized AUTOVON Interconnection Circuit.			⓪	○	⓪	AUTOVON SW CTR returns dial tone.
7. Attendant dials requested number.	MO	TT DIAL	⓪	○	⓪	Call processed. Connection completed, precedence audible ring heard by attendant.
8. Called station answers.			⓪	○	⓪	Ringing trips; off-hook condition returned to AUTOVON Interconnection Circuit.
9. Attendant connects PBX station to call.	MO	AT	⓪	○	⓪	Calling party, called party, and attendant connected.
10. Attendant releases from connection.	MO	RLS	○	○	○	Calling party and called party remain connected.
11. Call complete, AUTOVON SW CTR disconnects first.			●	○	○	AUTOVON SW CTR returns on-hook condition to AUTOVON Interconnection Circuit, which releases.
12. PBX station disconnects.			●	●	●	812A PBX station line circuit and attendant trunk circuit release. All lamps extinguish.

**TABLE AU**  
**OUTGOING PRECEDENCE CALL BY ATTENDANT WITH HIGHER**  
**ORDER OF PRIORITY**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
1. Idle.			●	●	●	Keys normal, all lamps dark.
2. PBX station dials attendant trunk code to request outgoing precedence call.			⓪	●	●	Console audible signal sounds, PBX station user hears audible ring.
3. Console attendant answers.	MO	AT	⓪	●	●	Ringing trips; voice transmission established between attendant and PBX station user.
4. Attendant places PBX station on hold.	MO	HOLD	⓪	●	●	
5. Attendant initiates precedence call.	MO	P	⓪	●	⓪	AUTOVON Interconnection Circuit seizure forwards off-hook condition to AUTOVON SW CTR.
6. AUTOVON SW CTR seized by AUTOVON Interconnection Circuit.			⓪	○	⓪	AUTOVON SW CTR returns dial tone.
7. Attendant dials requested number.	MO	TT DIAL	⓪	○	⓪	Call processed. Connection completed, precedence audible ring heard by attendant.
8. Called station answers.			⓪	○	⓪	Ringing trips; off-hook condition returned to AUTOVON Interconnection Circuit.
9. Attendant connects PBX station to call.	MO	AT	⓪	○	⓪	Calling party, called party, and attendant connected.
10. Attendant releases from connection.	MO	RLS	○	○	○	Calling party and called party remain connected.
11. Second PBX station dials attendant trunk code to request outgoing precedence call.			⓪	●	●	Console audible signal sounds, PBX station user hears audible ring.
12. Console attendant answers.	MO	AT	⓪	●	●	Ringing trips; voice transmission established between attendant and second PBX station user.
13. Attendant places PBX station on hold.	MO	HOLD	⓪	●	●	
14. Attendant barges in on first outgoing precedence call.	MO	P	⓪	○	○	Attendant connects to first precedence call, requests parties to disconnect.
15. PBX station on first precedence call disconnects.			⓪	○	⓪	PBX station line circuit and first attendant trunk release.

**TABLE AU (Cont)**  
**OUTGOING PRECEDENCE CALL BY ATTENDANT WITH HIGHER**  
**ORDER OF PRIORITY**

CONDITION	ATTENDANT CONSOLE					REMARKS
	KEYS		LAMPS			
	OPR	DESIG	AT	R	P	
16. AUTOVON SW CTR disconnects.			(30)	●	●	AUTOVON SW CTR returns on-hook condition to AUTOVON Inter-connection Circuit which releases.
17. When precedence lamp extinguishes, attendant reseizes trunk and repeats Steps 5 thru 10.						



**Fig. 1—155A6E-03L AUTOVON Attendant Console**

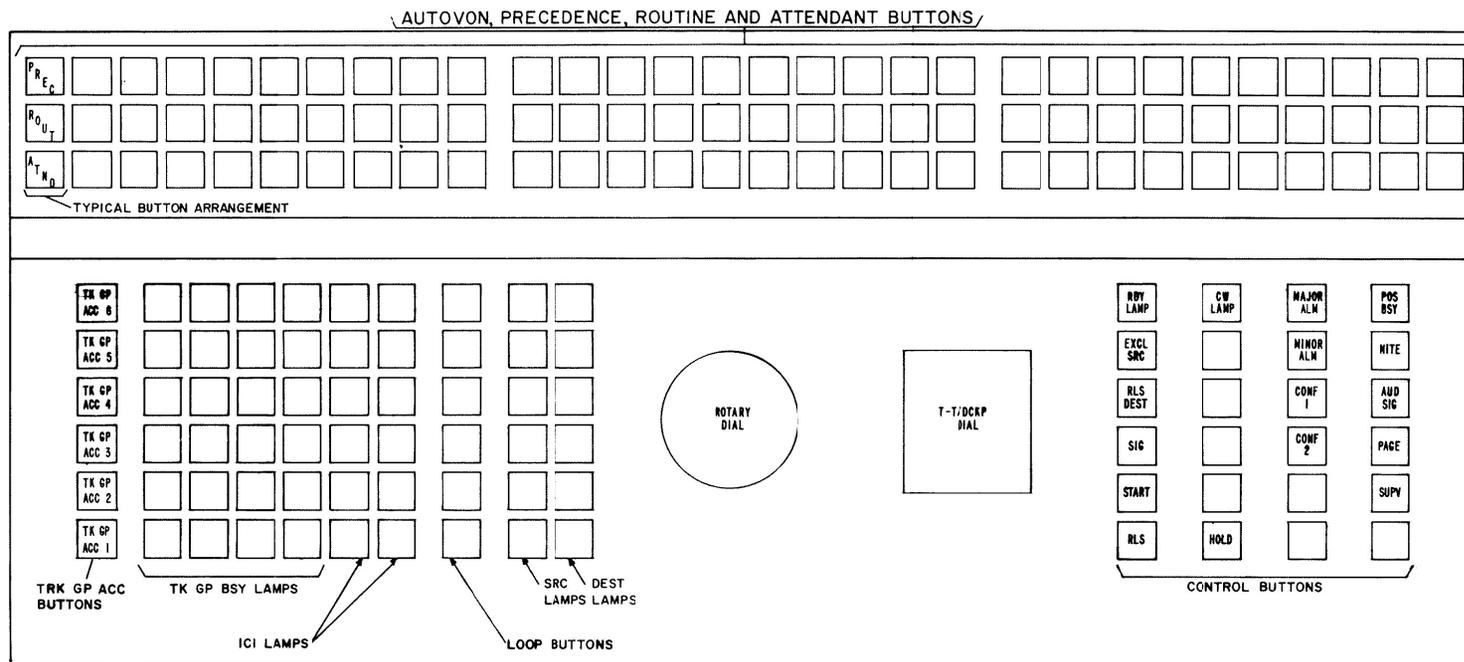


Fig. 2—155A6E-03L AUTOVON Attendant Console Faceplate Layout