

## CENTREX SERVICE

### ATTENDANT FACILITIES

#### 622A CONSOLE

The 622A console (Fig. 1) is applicable with a No. 5 Crossbar Centrex system. The associated No. 5 crossbar facilities are described in Section 2a of these Notes.

The console can be located on top of a desk or table. It is encased in a sloping plastic case approximately 15" wide, 12" deep and 6" high. The case is available in four colors — ivory, moss green, light gray and light beige. The connecting cord is available in the same colors and is arranged for plug-in termination. Two pairs of head set jacks are provided in the left side panel of the console.

The console may be equipped for 10 trunk or loop terminations (622A-1 console). All apparatus mounted in the front surface is arranged to be plugged in and all keys are of the non-locking type. Figure 2 illustrates the key panel layout. Details of the functions of the keys and lamps included in the key panel are described below.

#### Trunk or Attendant Loop Terminations

Each trunk or attendant loop termination consists of a key and the associated source and destination supervisory lamps. This apparatus is used to terminate attendant loops (release type), attendant access trunks and any foreign exchange lines, or tie lines requiring direct key terminations.

The **key** is non-locking, and, when operated, will connect the attendant to the trunk or loop. Operation of this key lights it to indicate to the attendant that she is now connected. Attendant release from the trunk or loop will extinguish the key lamp. If a call is held on a trunk or loop while other calls are handled, the key will "wink" while the trunk or loop is in this condition.

The **source supervisory lamp** will flash at 60 or 120 IPM to indicate an incoming call. It becomes steady when the key is operated. Supervisory signals from the source of the call are received on this lamp. The lamp is darkened when the trunk or loop is released from the position.

The **destination supervisory** lamp displays the supervisory signals for the destination of the call. Called station being rung (30 wink), called station busy (60 IPM flash), called station answer (steady), overflow in switching train (120 IPM flash), outgoing central office trunk connected (steady) are some of the supervisory indications displayed.

Figure 3 illustrates the signals for some of the basic conditions occurring in handling calls at this console.

#### Control Keys

There are two groups of control keys provided with this console. The group to the immediate right of the trunk or loop terminations are more commonly used than the group located at the extreme right side of the console. (Exception — the END key.) The function of each of these control keys is described below.

- a. **Release — Position Available Key (RLS-PA)**  
This key releases the attendant's position from the trunk or loop. Its operation makes the position available to receive another call. It will be lighted to indicate the position available condition.
- b. **Hold Key (Hold)**  
The operation of this key places the call on the trunk or loop to which the attendant is connected in a "hold" condition and locks it on the position. The trunk or loop key will "wink" when this occurs.
- c. **Release Forward Key (RLS FWD)**  
The operation of this key releases any established connection toward the destination of the call. It is also used to release the station originating a transfer request to permit re-use of the switching train for the new connection.
- d. **Advance Key (ADV.)**  
This is associated with the attendant access trunk, the conference circuit and any direct

key terminated foreign exchange or tie line trunks. Its function is to indicate to the trunk that all operations in one direction are now completed and that a shift is required to permit operations in another direction.

- e. **Position Busy (POS BSY)**  
The operation of this key removes the position from the operating team even though the position is still occupied. The key will be lighted until the position busy condition is removed by reoperation of the key.
- f. **End Key (END)**  
This key is associated with the pushbutton dial and signals the register that pulsing is completed. It must be operated at the end of each pulsing sequence.
- g. **Supervisor Key (SUPV.)**  
This key is used to call a supervisor. It will be illuminated until the supervisor has plugged into the position. It will not block out incoming calls when this key is operated.
- h. **Trunk Release Key (TRK RLS)**  
This key will release any attendant loop from the position when held by a trouble condition.
- i. **Flash Key (FL)**  
This key is used to flash toward the central office on an attendant established LD call to a toll operator. The loop or trunk must still be on her position to perform this function.
- j. **Ring Key (RING)**  
This key is used to recall an extension held on an attendant trunk, or to recall a toll operator on an incoming call held on the attendant position.
- k. **Night Connection Key (NITE)**  
This key will appear in only one position of the team. Its operation will transfer listed number calls to the night terminations. Reoperation of the key releases the night connection arrangements.
- l. **Conference Key (CONF)**  
This key termination provides access to the conference circuit. Incoming calls to the conference circuit will flash this key at 120 IPM. It will become steady when the attendant answers and remains lighted for the duration of the conference connection.

m. **Line Key (LINE)**

This is the attendant's extension line for use on outgoing calls only. The operation of this key makes the position busy to incoming calls.

**Pushbutton Dial Units**

This unit contains the pushbutton dial with its associated START IN (ST-I) and START OUT (ST-O) keys and register connected (RL) lamp. The ST-I key is used to obtain a register when extending an incoming call on the attendant loops to a local Centrex station. The ST-O key is used to obtain a register on all other operations. Connections on the conference circuit, the attendant access trunk, and key ended trunks require the use of the ST-O key.

**Other Items**

The audible signal control keys, (OFF-ON and VOLUME) and a calls waiting (CW) lamp are mounted above the pushbutton dial.

**Operating Room Arrangements**

It is not necessary to arrange the consoles in a line-up similar to that provided for cord switchboards. All positions included in the operating team should be within the confines of the allocated operating room space but can be located according to the customer's desires.

**Position Arrangements**

The release type attendant loops will be individual to each position. A maximum of 6 per position can be provided. Handling high volumes of T&C traffic, which is retained on the position for the duration of the call, increases loop requirements. Preliminary information indicates the loop requirements as follows:

4 loops	Up to 10%	T&C of total attendant traffic
5 loops	Up to 25%	" " " " "
6 loops	Over 25%	" " " " "

At least one attendant access trunk should be terminated on each position. This trunk can be used by the attendant to originate calls in both directions.

Key terminated trunks — foreign exchange and tie lines — can be assigned as desired. However, these key terminated trunks can not be multiplied between consoles because of circuit operating conditions and the undesirability of the supervisory signal being duplicated at each termination.

**Busy verification** and **splitting** are **not** available with the 622A console.

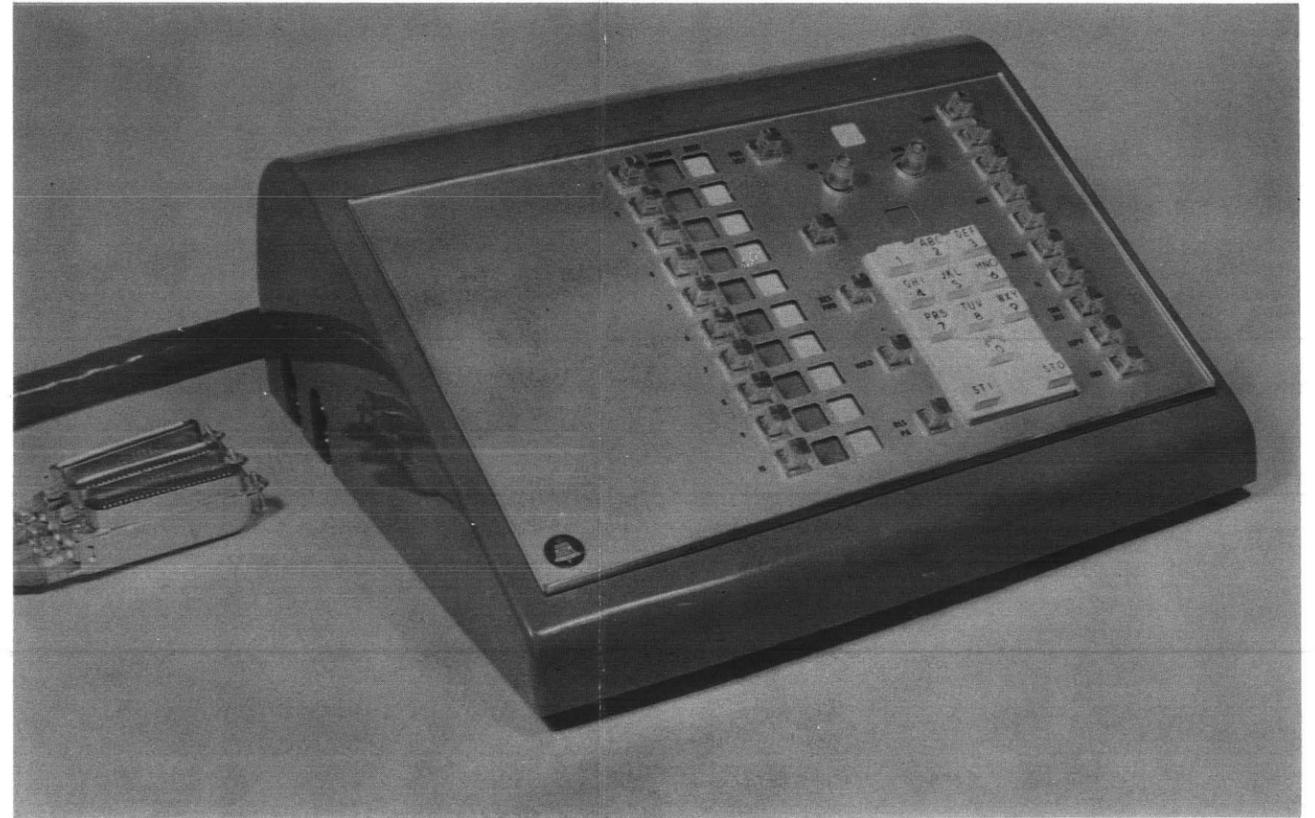
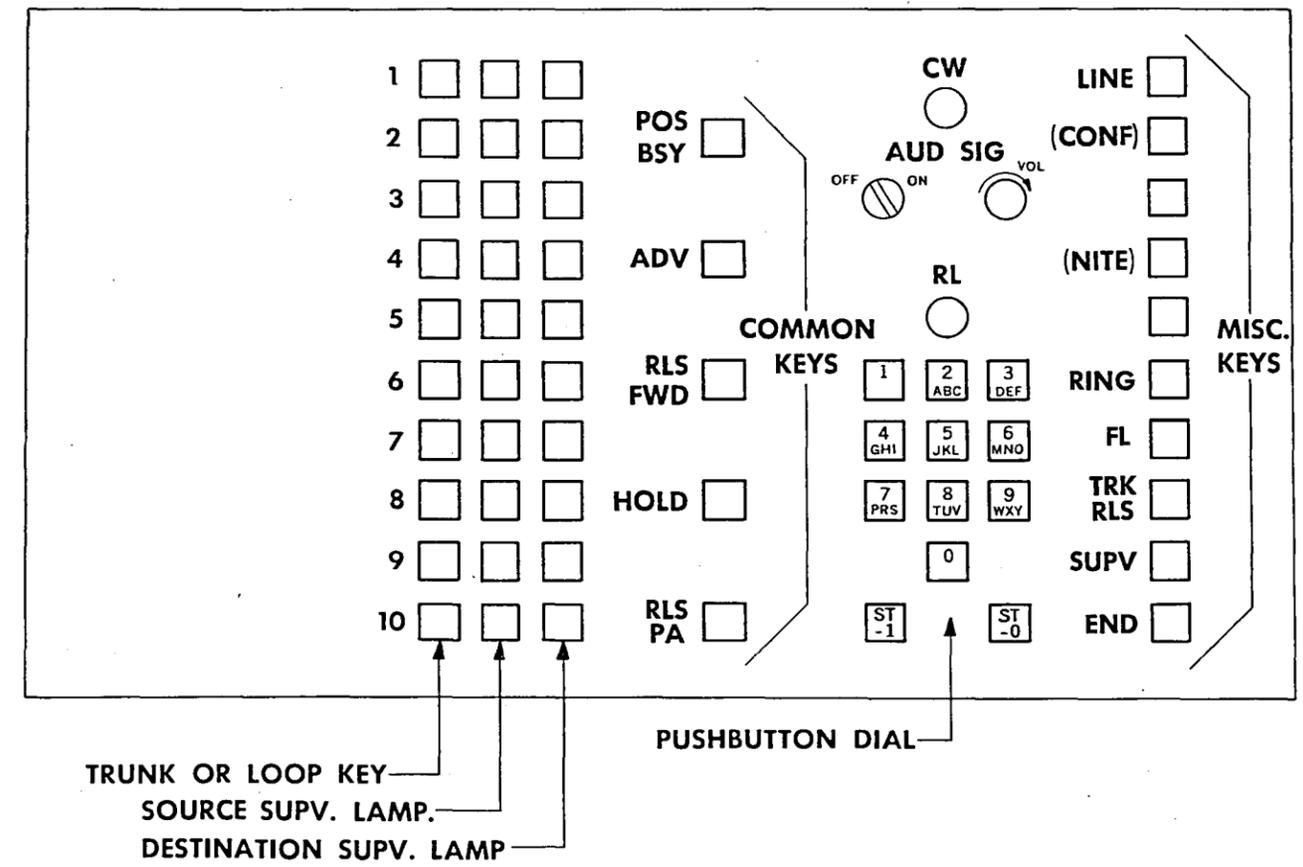


FIG. 1  
622A CONSOLE

Key panel layout - 622A attendant console . . . .



## TYPICAL SIGNALS RECEIVED ON 622A CONSOLE

Condition	Trunk or Loop Key	Supervisory Lamp		Remarks
		Source	Destination	
1. Incoming Signal				
(a) Listed No. & FX	D	60	D	
(b) Attendant	D	120	D	
(c) Tie	D	120	D	
(d) In-dial Transfer (station)	D	120	S	
(e) In-dial Transfer (Tie line station)	D	120	120	
(f) Station Recall (Loop off position)	D	120	S	
2. Attendant Answer				
(a) Listed No. or FX	S	S	D	
(b) Att'd. Trk. or Tie	S	S	D	
(c) Transfer & Recall	S	S	S	
3. Station Ring	S*	S	W	Audible ring heard (compl. to tie line station — audible only)
4. Station Busy				
(a) No camp on feature	S*	S	60	Busy tone heard
5. Station Answer				
(a) Auto. Release	D	D	D	
(b) Loop or trunk retained in pos.	**	S	S	
6. Station Recall (Loop retained on position)	**	S	flash	Follows switch-hook
7. Loop or trunk hold (clg. pty waiting for completion)				
(a) Listed No. or FX	W	S	D	
(b) Attendant or Tie	W	S	D	
8. Toll Rering	**	S or D	120	

\* Lighted steady if att'd. is still in connection, dark otherwise.

\*\* Lighted steady if att'd. is still in connection, wink otherwise.

(Key) D — Dark lamp

S — Steady lighted lamp

W — Winking lamp (1.7" lighted, .3" dark)

60, 120 — flashing lamp at frequency indicated.