TELEPHONE CONSOLES

23-, 43- AND 53-TYPES

IDENTIFICATION

1. GENERAL

1.01 This section is reissued to:

- Add new housing assembly ordering codes to Table C.

- Add Fig. 5 to show typical control key designations and positions.

- Add attendant telephone circuit information.

- Revise key designations in Table F.

1.02 This section describes the 23-, 43-, and 53-type telephone consoles and their associated apparatus (Fig. 1, 2, 3, and 4).

1.03 The 23-, 43-, and 53-type telephone consoles are recommended for use in place of 1B- and 2B-type telephone consoles as listed in Table A.

1.04 This issue of the section is based on SD-1E242-01, Issue 1. If this section is to be used with equipment or apparatus reflecting later issues(s) of the drawing, reference should be made to the SD and CD to determine the extent of the changes and the manner in which the section may be affected.

2. IDENTIFICATION

PURPOSE

- To answer incoming calls, originate outgoing calls, and complete calls to either trunks or stations within the PBX.

- Provides direct station selection by PBX attendant on 53-type console only.

TABLE A

CONSOLE REPLACEMENT

NEW	OLD
23A2R	1B1A 1B2A 1B3A 1B4A
23A2T	1B19A 1B20A 1B21A 1B22A
23A9R	1B29A 1B30A
23A9T	1B31A 1B32A
43A5R 53A5R*	2B1A 2B2A 2B3A 2B4A 2B5A 2B6A
43A5T 53A5T*	2B26A 2B27A 2B28A 2B29A 2B30A 2B31A
53A9R*	1B29A 1B30A
53A9T*	1B31A 1B32A

* When 1B- or 2B-consoles are combined with 1A1- or 1A2-type selector consoles.

APPLICATION

- Intended for use with the 757A and 770A PBXs.

ORDERING GUIDE

- Console, Telephone, 23A2R-*, (rotary dial) †

- Console, Telephone, 23A2T-*, (TOUCH-TONE® dial) †

- Console, Telephone, 23A9R-*, (rotary dial) ‡

- Console, Telephone 23A9T-*, (TOUCH-TONE dial) ‡

- Console, Telephone, 43A5R-*, (rotary dial) †

- Console, Telephone, 43A5T-*, (TOUCH-TONE dial) †

- Console, Telephone, 53A5R-*, (rotary dial) †

- Console, Telephone, 53A5T-*, (TOUCH-TONE dial) †

- Console, Telephone, 53A9R-*, (rotary dial) ‡

- Console, Telephone, 53A9T-*, (TOUCH-TONE dial) ‡

* Add color suffix (Table D).

† Direct trunk termination.

‡ Switched loop with ICI and TGB.

Replaceable Components

(See Tables B and C.)

Optional Apparatus (order separately)

- Set, Telephone, Head, 52-, 53-, 60-, 61-type or equivalent.

- Set, Telephone, Hand, G3CR-(*)

COLOR

(See Table D.)

DESIGN FEATURES

- Dimensions (See Table E).

- Modular mounting of lamps, dials and keys (Table F).

- Molded base of dark gray plastic.

- One piece molded plastic housing.

- Nonglare plastic faceplate recessed in housing.

- Rotary or TOUCH-TONE dial.

- D-type mounting cord 8-foot long.

- Base of console may be recessed in mounting surface to conceal mounting cord.

- Tone ringer with volume control.

- Direct station selection (DSS) on 53-type consoles (200-line).

OPERATING FEATURES

A. Attendant Telephone Circuit

2.01 The consoles are equipped with four jacks designated A to D. The A and B supervisor jacks are on the right side of the console, and the C and D attendant operating jacks are on the left side ▶beneath the handset cradle.◀

2.02 The console may be operated by using a G3CR handset or an optional telephone headset (52-, 53-, 60-, 61-type, or equivalent). These headsets and handsets are not furnished and must be ordered separately.

B. Trunk and Loop Pickup Keys and Lamps

2.03 Pickup keys are nonlocking, illuminating, and self-designating types located on the left side of the console. The keys connect through the mounting cord and connector cables to loops or central office trunks, tie trunks, etc, in the switching system permitting a flexible assignment of circuits to keys.

2.04 Two supervisory lamps are associated with each pickup key to indicate the conditions at the source and destination of the call. A lamp

beneath the key lights when the attendant is connected to the corresponding loop or trunk.

C. Trunk Group Busy and Incoming Call Identification Lamps

2.05 The 23A9 console provides two 74A lamp sockets (12 lamps each) which, when used with switched-loop operation, offer a visual display of Trunk Group Busy (TGB) conditions and Incoming Call Identification (ICI).

D. Control and Miscellaneous Keys (Fig. 5)

2.06 Control and miscellaneous keys are located on the right side of the console and consist of four banks of six keys and associated lamps. The top three keys of the first bank are push-to-operate, push-to-release, keys. All remaining keys are nonlocking.

E. Key and Lamp Designations

2.07 Key designations and use are as follows:

(a) *Position-Busy Key (POS BSY):* A push-to-operate, push-to-release, key which, when operated, becomes illuminated and makes the position busy to incoming calls.

(b) *Night Key (NITE):* A push-to-operate, push-to-release, key used to activate the night service arrangement in the PBX, illuminated when operated.

(c) *Audible Signal Key (AUD SIG):* A push-to-operate, push-to-release, key used to turn the audible signal on or off.

(d) *Paging Key (PAGE):* A nonlocking, illuminating type key. Operation of the key connects the attendant to the paging system in the PBX. The key must be held operated while paging. Releasing the key disconnects the console from the paging system and extinguishes the lamp.

(e) *Remote Answer Key (REM ANS):* A push-to-operate, push-to-release, illuminating type key used to connect the position circuit to an auxiliary position circuit to provide the trunk answer from any station feature. The key is illuminated during the time the remote answer condition is in effect.

(f) *Fuse Alarm Lamp (FA):* A visual indication to alert the attendant to a power or fuse failure.

(g) *Conference Keys (CONF):* Nonlocking, illuminating keys for establishing multistation conferences, normally connected to only one console at a PBX.

(h) *Busy-Verification Key (BSY VER):* A nonlocking, illuminating key which allows for verification of a busy station.

(i) *Calls Waiting Lamp (CW):* A visual indication that switched-loop calls are waiting to be answered.

(j) *Exclude-Source Key and Exclude-Destination Key (EXCL SRC) (EXCL DEST):* Nonlocking, illuminating keys used to split a connection so the attendant may talk to only one party at a time. The keys are illuminated when operated to show which part is excluded.

(k) *Release-Source Key (RLS SRC):* A nonlocking, nonilluminating key used to release the source (calling) side of a connection.

(l) *Signal-Source Key (SIG SRC):* A nonlocking, nonilluminating key used to manually ring the source (calling) side of a connection.

(m) *Hold Key (HOLD):* A red, nonlocking, release-on-the-upstroke, nonilluminating type key which permits placing a connected loop or trunk on hold.

(n) *Ready Lamp (RDY):* Lights (green) when the equipment has been seized and indicates the attendant may start dialing.

(o) *Release-Destination Key (RLS DEST):* A nonlocking, nonilluminating type key which provides for release of a called station, a station which has originated a transfer request, or the equipment if a misdial condition is detected.

(p) *Signal-Destination Key (SIG DEST):* A nonlocking, nonilluminating key used to manually flash or ring the destination (called) side of the connection.

(q) *Dial-Start and End Keys (START) (END):* Nonlocking, nonilluminating type keys. Start

key is used to gain access to the PBX allowing attendant to initiate or extend calls. After dialing is complete, the end key is depressed.

(r) *Position Release Key (RLS):* A nonlocking, release-on-the-upstroke, illuminating type key used to disconnect the attendant from all calls.

F. ◆Key Caps

2.08 All key caps will be shipped in envelopes according to the key codes provided in a given console. The following are keys used in 23-, 43-, and 53-type consoles and the caps supplied with these keys:

KEY	KEY CAP NO.	COLOR	QUANTITY
635 AE5C	P23F427	Clear	6
635 AF5C	P23F427	Clear	6
	P23F428	Red	1
635 AG5C	P23F427	Clear	6
	P23F428	Red	1
	P23F430	Green	1
635 AH5C	P23F427	Clear	6

2.09 Refer to the installation section for the PBX system in which the console will be used to determine where these colored key caps will be required.◆
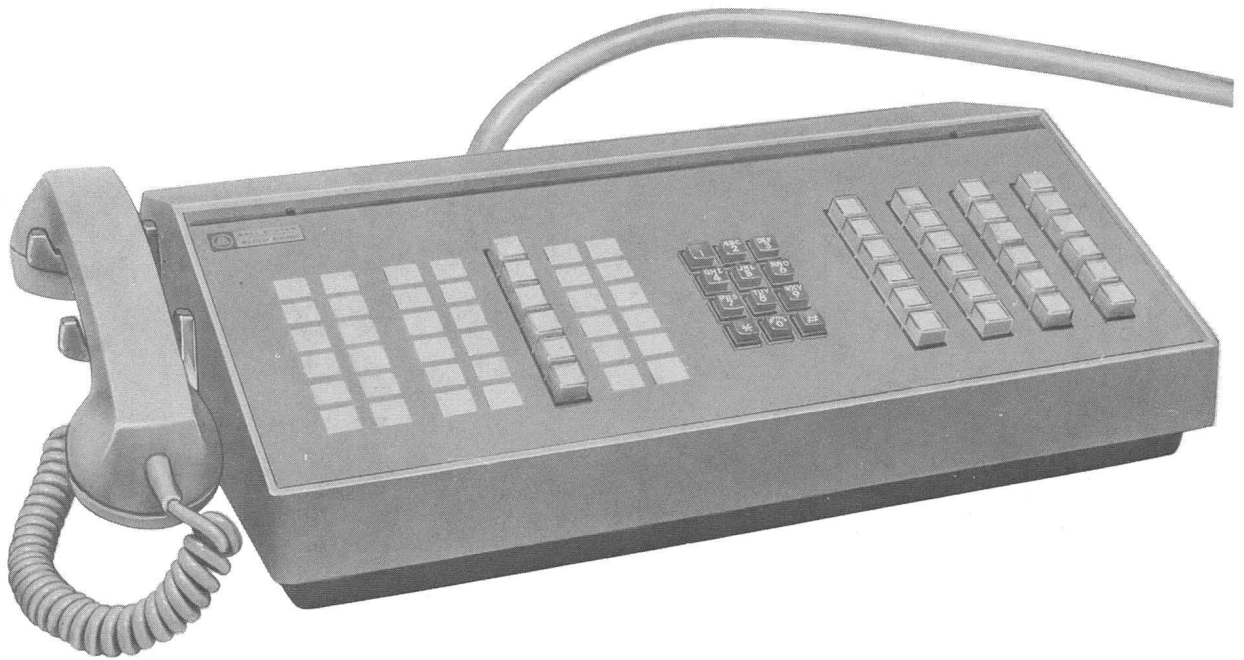
Fig. 1—23A9T Telephone Console

Fig. 2—43A5T Telephone Console
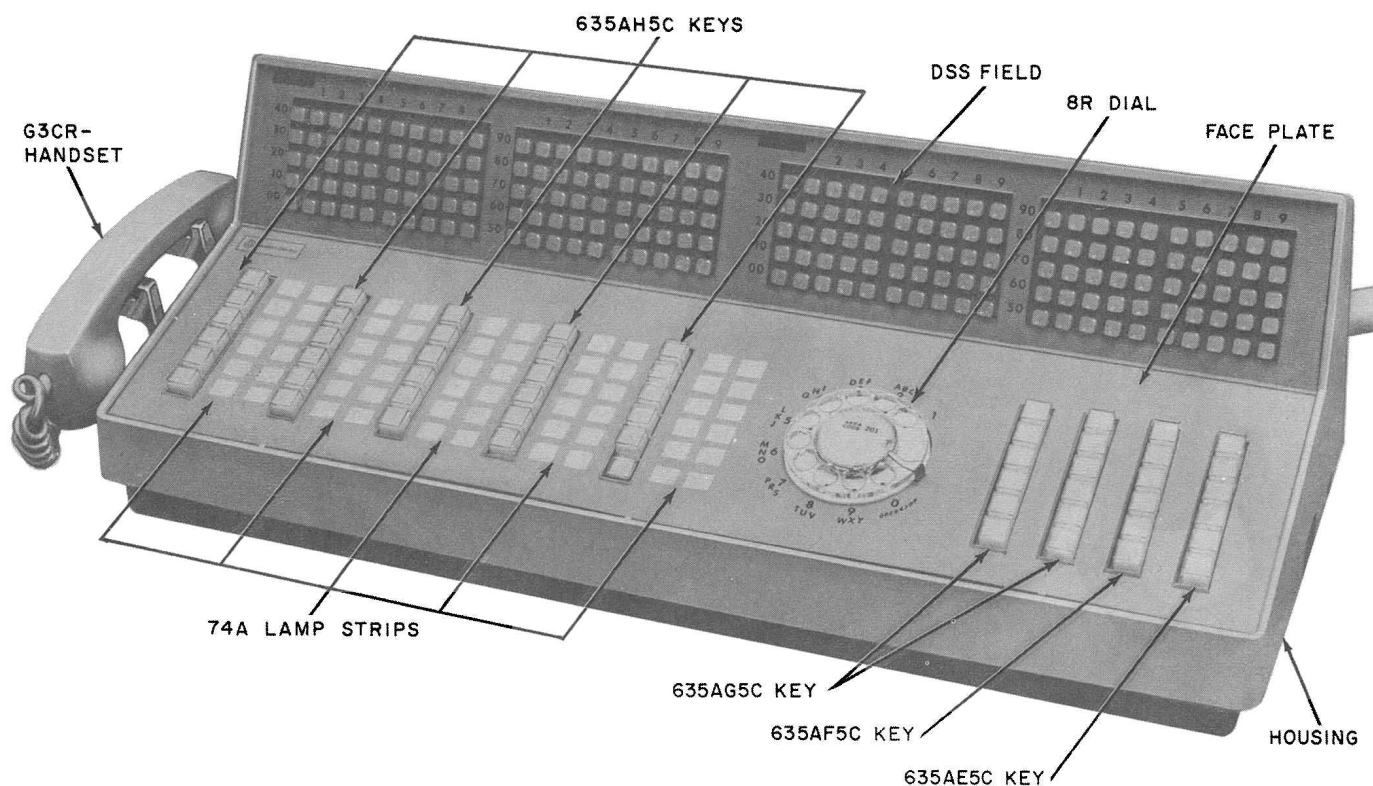
Fig. 3—53A5R Telephone Console
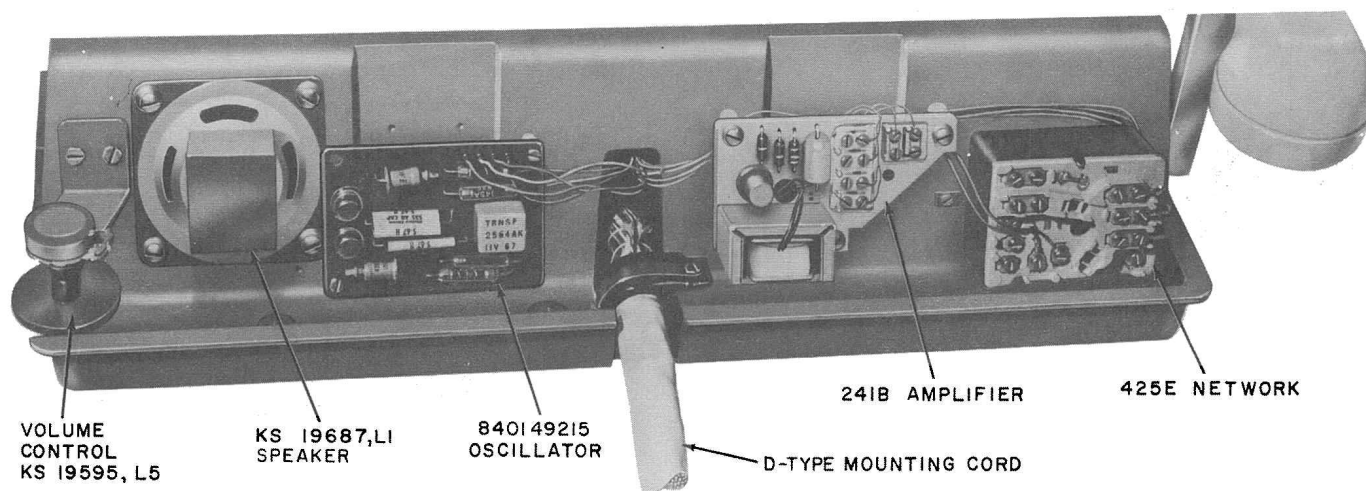
Fig. 4—23-Type Telephone Console Rear View, Housing Removed

CONTROL KEY POSITIONS

4	3	2	1
KEY	KEY	KEY	KEY
RDY	CW	FA	POS BSY
EXCL DEST	EXCL SRC		NITE
RLS DEST	RLS SRC	CONF 1	AUD SIG
SIG DEST	SIG SRC	CONF 2	PAGE
START	END		
RLS	HOLD	BSY VER	REM ANS

TPA 568516
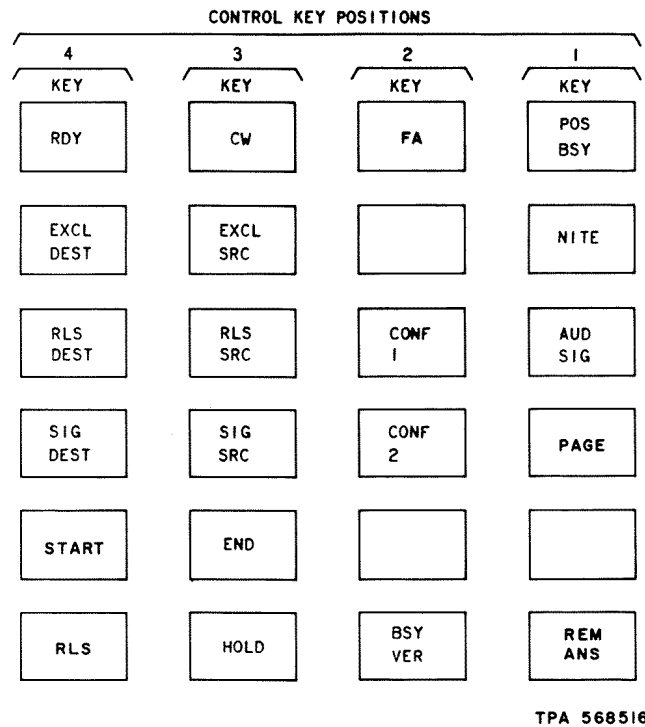
Fig. 5—Typical Control Key Designation and Positions in 23-, 43-, and 53-Type Telephone Consoles

TABLE B

23-, 43- AND 53-TYPE CONSOLES — REPLACEABLE COMPONENTS

COMPONENTS		CONSOLES									
		NON-DSS						DSS			
DESCRIPTION (SEE NOTE)	ORDERING CODE	23A2R	23A2T	23A9R	23A9T	43A5R	43A5T	53A5R	53A5T	53A9R	53A9T
Mounting Cords	D-150-U(*)	1	1	1	1					1	1
	D-250-K(*)					1	1	1	1		
	D-300-C(*)							1	1	1	1
Dial	8R	1		1		1		1		1	
	35F3A		1		1		1		1		1
Filter	61A	1		1		1		1		1	
Lamp Sockets	74A	2	2	3	3	5	5	5	5	3	3
Keys	635 AH5C	2	2	1	1	5	5	5	5	1	1
	635 AG5C	2	2	2	2	2	2	2	2	2	2
	635 AF5C	1	1	1	1	1	1	1	1	1	1
	635 AE5C	1	1	1	1	1	1	1	1	1	1
Collar	P-23F503	6	6	5	5	9	9	9	9	5	5
	840154009	1									
	840154017		1								
	840154025			1							
	840154033				1						
Faceplates	840153852					1					
	840153860						1				
	840153506							1			
	840153514								1		
	840153563									1	
	840153555										1

TABLE B (Cont)

23-, 43- AND 53-TYPE CONSOLES – REPLACEABLE COMPONENTS

COMPONENTS		CONSOLES									
DESCRIPTION (SEE NOTE)	ORDERING CODE	NON-DSS						DSS			
		23A2R	23A2T	23A9R	23A9T	43A5R	43A5T	53A5R	53A5T	53A9R	53A9T
DSS Faceplate	840152722							1	1	1	1
DSS Coverplate	840152268							4	4	4	4
Handset	G3CR-(*)	†	†	†	†	†	†	†	†	†	†
Housing Assemblies		(See Table C)									
Amplifier	241B	Common to all Consoles									
Jacks (4)	476A										
Network	425E										
Oscillator-Tone Ringer	840149215										
Speaker	KS-19687, L1										
Volume Control	KS-19595, L5										
Self-Designating Key Tab	840149843										

(*) Add color suffix (Table D).
(†) Not furnished.

Note: Connector cables must be ordered separately. See the appropriate section covering the equipment with which the consoles are used to determine ordering information. See Table F for key, dial, and lamp positions.

♦ TABLE C ♦

ORDERING CODES — REPLACEABLE HOUSINGS

COLOR		CONSOLES			
		23-TYPE	43-TYPE	53A5-TYPE	53A9-TYPE
Green	51	840493514	840495519	840496517	840650519
White	58	840493589	840495584	840496582	840650584
Lt. Beige	60	840493605	840495600	840496608	840650600
Lt. Gray	61	840493613	840495618	840496616	840650618

TABLE D

COLOR ORDERING GUIDE

APPARATUS	COLOR	SUFFIX
Telephone Console,	Green	51
Handset,	White	58
Housing, and	Lt. Beige	60
Mounting Cord	Lt. Gray	61

TABLE E

CONSOLE TYPE	DIMENSIONS (INCHES)		
	WIDTH	DEPTH	HEIGHT
23-Type	17.568	10.5	3.625
43-Type	25.446	10.5	3.625
53-Type	25.446	10.5	7.134*

*Includes DSS field

◆ TABLE F ◆

KEY, DIAL, AND LAMP POSITIONS IN 23-, 43-, AND 53-TYPE CONSOLES

CONSOLE CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	TYPE OF OPERATION
23A2R *						8R Dial						635 AH5C						635 AH5C	Direct Trunk Termination
23A2T *						35F3A Dial											74A		
23A9R *	635 AE5C	635 AF5C	635 AG5C	635 AG5C		8R Dial			74A	635 AH5C	74A	74A							Switched Loop with ICI-TGB
23A9T *						35F3A Dial													Switched Loop with ICI-TGB
43A5R						8R Dial				635 AH5C			74A	635 AH5C		635 AH5C	74A		Direct Trunk Termination
43A5T						35F3A Dial													
53A5R †						8R Dial						635 AH5C		74A	74A				
53A5T †						35F3A Dial				8R Dial		74A	635 AH5C						
53A9R †	‡	‡	‡	635 AE5C	635 AF5C	635 AG5C	635 AG5C			8R Dial	35F3A Dial					‡	‡	‡	Switched Loop with ICI-TGB
53A9T †	‡	‡	‡							35F3A Dial									Switched Loop with ICI-TGB

POSITION (SEE NOTE)

Note: 74A Lamp Strips
635 AE5C ⎫
635 AF5C ⎬ Keys
635 AG5C ⎪
635 AH5C ⎭
8R Rotary Dial
35F3A TOUCH-TONE Dial

* 23-Type consoles are 12 positions wide.

† With DSS field.

‡ These positions are unequipped.