

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

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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.

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.♦

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 |

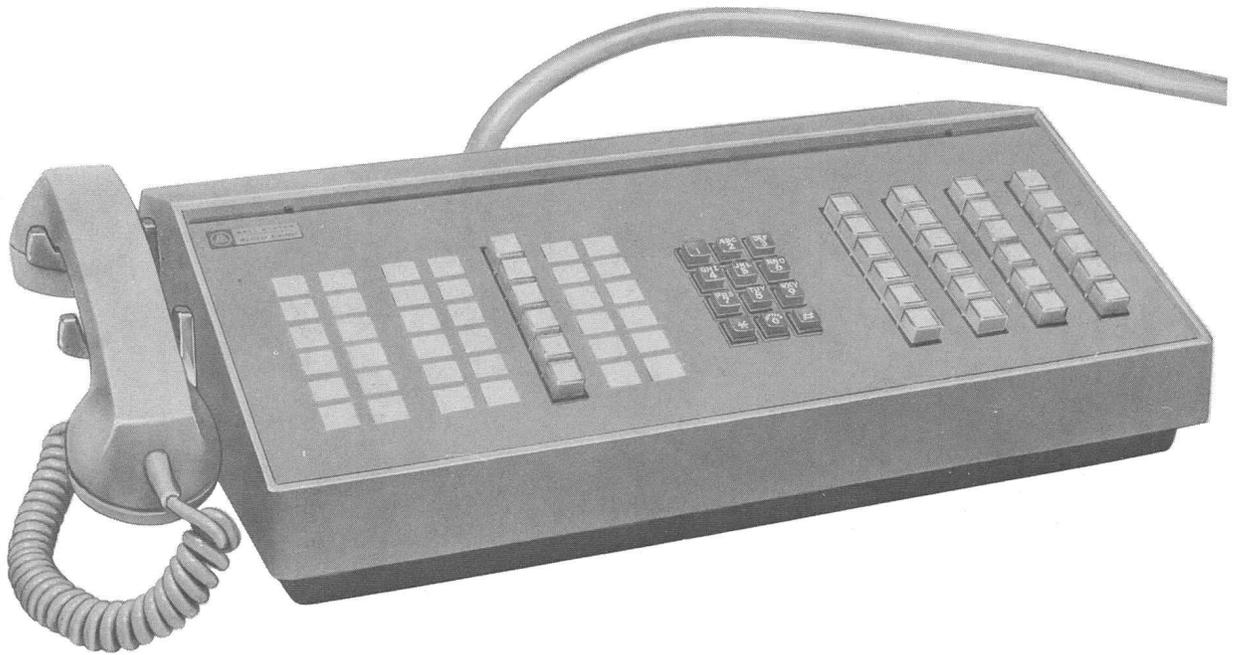


Fig. 1—23A9T Telephone Console



Fig. 2—43A5T Telephone Console

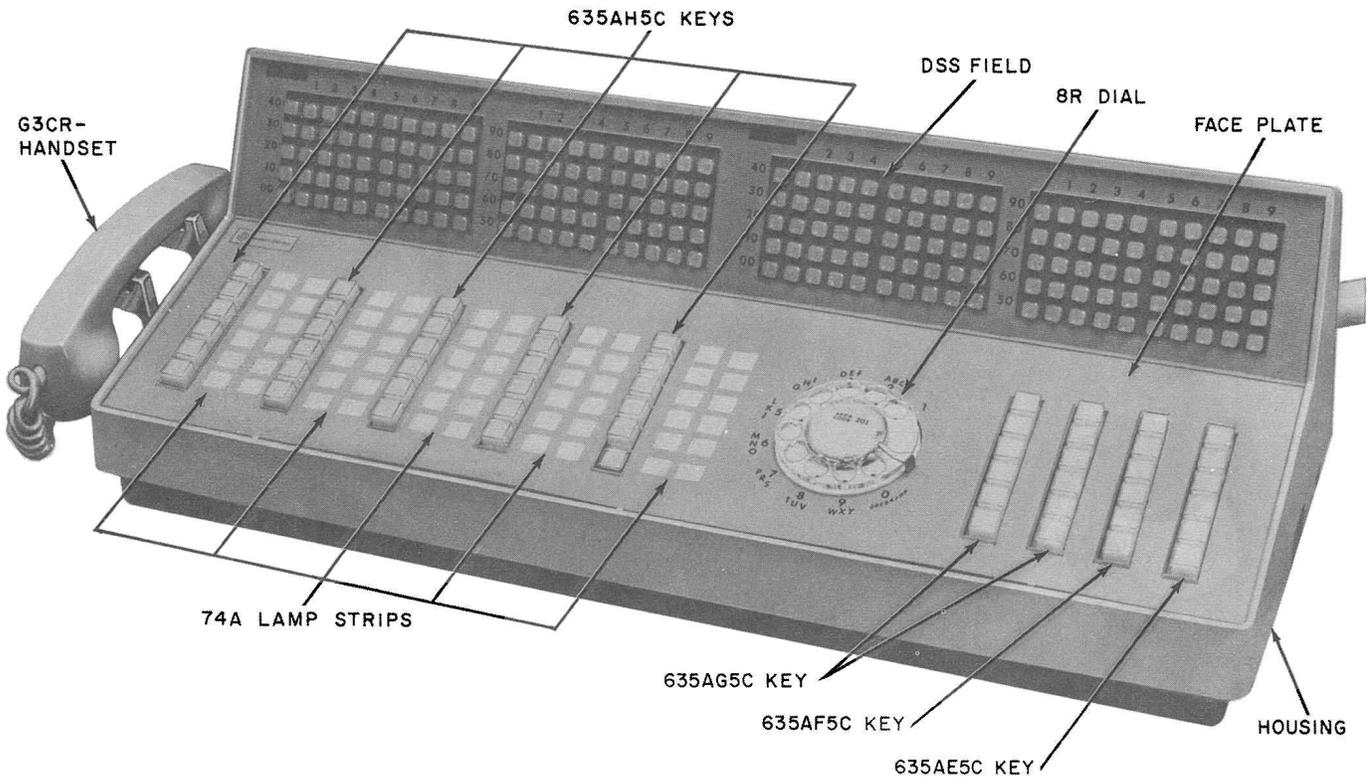


Fig. 3—53A5R Telephone Console

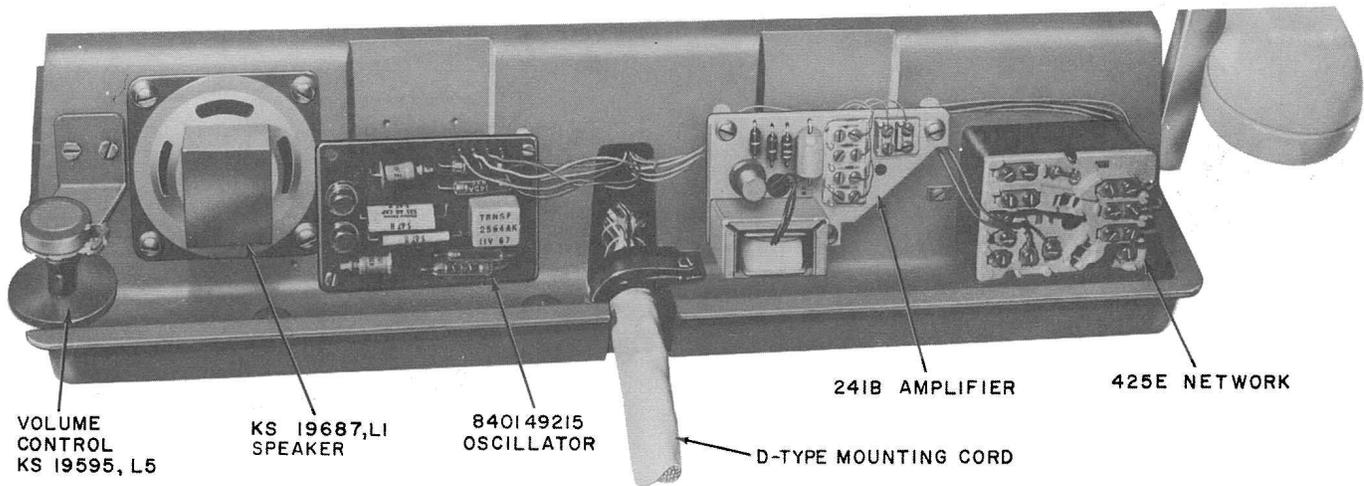
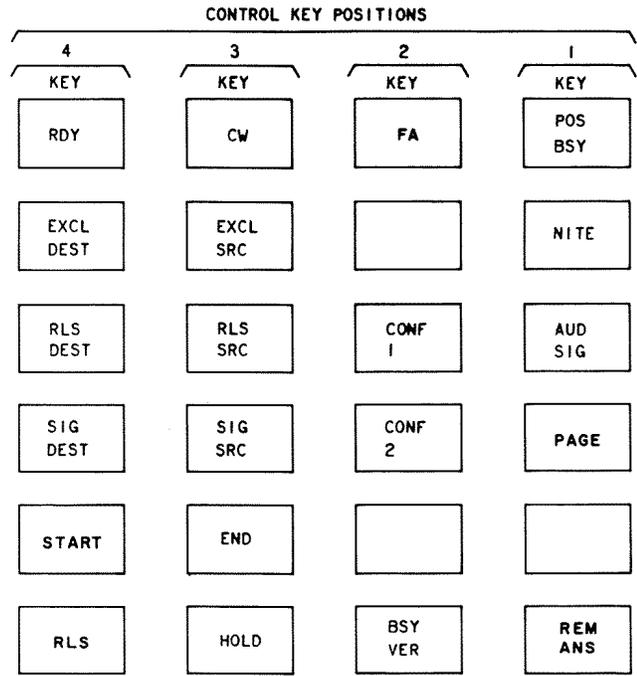


Fig. 4—23-Type Telephone Console Rear View, Housing Removed



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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 | | | | | | | | | |
|---------------------------|------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| DESCRIPTION (SEE NOTE) | ORDERING CODE | NON-DSS | | | | | | DSS | | | |
| | | 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 |
| Faceplates | 840154009 | 1 | | | | | | | | | |
| | 840154017 | | 1 | | | | | | | | |
| | 840154025 | | | 1 | | | | | | | |
| | 840154033 | | | | 1 | | | | | | |
| | 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, Handset, Housing, and Mounting Cord | Green | 51 |
| | White | 58 |
| | Lt. Beige | 60 |
| | 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 | POSITION (SEE NOTE) | | | | | | | | | | | | | | | | | TYPE OF OPERATION | |
|--------------|---------------------|-----|----------|-----|----------|----------|----------|---------|----------|-----|------------|------------|----------|----------|----------|----------|----------|----------------------------|--------------------------|
| | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | | 1 |
| 23A2R * | | | | | | | 635 AH5C | | | | 8R Dial | | | | | | | | Direct Trunk Termination |
| 23A2T * | | | | | | | | | | | 35F3A Dial | | | | | | | | |
| 23A9R * | | | | | | | 74A | | | 74A | 8R Dial | | | 635 AG5C | 635 AG5C | 635 AF5C | 635 AE5C | Switched Loop with ICI-TGB | |
| 23A9T * | | | | | | | | | | | | 35F3A Dial | | | | | | | |
| 43A5R | 635 AH5C | 74A | 635 AH5C | 74A | 635 AH5C | 74A | 635 AH5C | 74A | 635 AH5C | 74A | 8R Dial | | | 635 AG5C | 635 AG5C | 635 AF5C | 635 AE5C | Direct Trunk Termination | |
| 43A5T | | | | | | | | | | | 35F3A Dial | | | | | | | | |
| 53A5R † | | | | | | | | | | | 8R Dial | | | | | | | | |
| 53A5T † | | | | | | | | | | | 35F3A Dial | | | | | | | | |
| 53A9R † | ‡ | ‡ | ‡ | 74A | 74A | 635 AH5C | 74A | 8R Dial | | | 635 AG5C | 635 AG5C | 635 AF5C | 635 AE5C | ‡ | ‡ | ‡ | Switched Loop with ICI-TGB | |
| 53A9T † | 35F3A Dial | | | | | | | | | | | | | | | | | | |

* 23-Type consoles are 12 positions wide.

† With DSS field.

‡ These positions are unequipped.

Note: 74A Lamp Strips

635 AE5C
635 AF5C
635 AG5C
635 AH5C

} Keys

8R Rotary Dial
35F3A TOUCH-TONE Dial