

BELL SYSTEM PRACTICES
Station Installation and Maintenance

SECTION C32.558
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AT&T Co Provisional

TELEPHONE SETS

540 AND 560 TYPES

DESCRIPTION AND USE

1. GENERAL

- 1.01 This section gives general information relating to the description and use of 540- and 560-type telephone sets.
- 1.02 The 540- and 560-type telephone sets supersede 440- and 460-type telephone sets.

2. DESCRIPTION

2.01 The 540- and 560-type sets are similar in external appearance to the other sets in the 500 series. The sets are proportionally larger and have clear plastic buttons and a designation window strip along the front edge below the dial, as in the 400 series key telephone sets. These sets are arranged for illumination at the key buttons when 51A lamps are provided, except for the 540B set which is a nonilluminated key button set. Various feature combinations are included in the 540- and 560-type sets, as indicated in Table A.

2.02 Improved illumination is obtained by the use of a clear plastic collar which extends over the end of the lamp and around a clear plastic button. This arrangement results in better illumination than that provided in the 400 series sets, since the light is transmitted through the collar as well as the button.

2.03 The buttons and collars extend through the designation window strip, which is held in place by two spring clips that are inserted into two small holes in the housing. These clips also hold the designation card in place above the buttons. For an external view of 540- and 560-type telephone sets, see Figs. 1, 2, and 3.

2.04 The 51A lamps will not be supplied with the 540- and 560-type key telephone sets but, where illumination is required, these lamps will be furnished by the installer when the set is placed in service.

2.05 The sets contain components used in the 500 series telephone sets; namely, C4A ringer and its volume adjustment control, the 425B network, 7D-3 dial or the 95A-3 apparatus blank for manual service, the G1A-3 handset, etc. In addition to the above components, the sets contain coded keys that have a mechanical interlock feature which prevents more than one pickup button being operated and locked down at the same time. Some of the sets are equipped so that certain pickup keys can be converted to signal keys. This change can be made in the field by removing a special screw from the pickup key plunger and changing a lead on the terminal strip.

2.06 The mounting cords have plastic-covered conductors and a black vinyl jacket. The color-coding scheme employs single solid colors to identify up to eight cord conductors; thereafter, additional conductors are identified by striping with two colors on white insulation. Conductors having the same colors are used for the same circuit function in each set except in the 564A set. At the set end of the cord, the conductors are terminated either individually in spade tips or grouped together in a common strip (wafer). The wafer consists of an insulating strip to which the cord tips of the mounting cord conductors are permanently fastened; therefore, the conductors are treated as a unit instead of individual conductors. The wafer is assembled to the key terminal strip by a screw through each cord tip. The individual cord tips are used only on those conductors which require changing for service reasons and on the lamp conductors.

3. USE

3.01 The 540- and 560-type telephone sets are furnished with wiring for use with 1A key telephone systems, and the wiring may be changed for use with 1A1 key telephone systems by reconnecting certain spade tip conductors.

3.02 For feature combination and coding of the 540- and 560-type telephone sets, see Table A.

TABLE A
FEATURE COMBINATIONS PROVIDED AND
CORRESPONDING CODES OF 540 AND 560 TYPE
TELEPHONE SETS

FEATURES PROVIDED FOR				CODING			
STATION CONTROL KEY ARRANGEMENT	EXCL KEY SEE NOTE 1	ILLUMINATED KEY BUTTONS (LESS LAMPS) SEE NOTE 2	STATION BUSY LAMP SEE NOTE 3	SET CODE SEE NOTE 4		CORD CODE	KEY CODE
				DIAL	MANUAL		
				540BB	540BA	D14D-3	588A
		✓		544BB	544BA	D19A-3	588B
	✓	✓	✓	545BB	545BA	D24B-3	
		✓		544AB	544AA	D25A-3	588C
		✓		564BB	564BA	D28A-3	589A
		✓		564CB	564CA	D25A-3	589D
		✓		564DB	564DA	D25A-3	589E
	✓	✓	✓	565BB	565BA	D34A-3	589B
	✓	✓	✓	565AB	565AA	D34A-3	589C
	✓	✓	✓	565EB	565EA	D31A-3	589F

H = HOLD - NON LOCKING
P = PICKUP - LOCKING
S = SIGNAL - NON LOCKING

C = CUTOFF (TURN BUTTON)
PS = PICKUP - LOCKING, CONVERTIBLE TO SIGNALING - NON LOCKING. CHANGE CAN BE MADE IN THE FIELD BY INSTALLER.

NOTE 1: THE EXCLUSION FEATURE IS A PLUNGER OPERATED SWITCH, AND THE LEADS FROM THIS SWITCH ARE EQUIPPED WITH SPADE TIPS SO THAT THEY CAN BE CONNECTED TO ANY LINE ON THE KEY TERMINAL STRIP.

NOTE 2: WHERE ILLUMINATION IS REQUIRED 51A LAMPS WILL BE FURNISHED BY THE INSTALLER WHEN SET IS PLACED IN SERVICE.

NOTE 3: THESE SETS ARE ARRANGED TO CONTROL STATION BUSY LAMP(S) LOCATED AT OTHER STATIONS. LAMPS LIGHT WHEN CONTROL STATION IS BUSY REGARDLESS OF WHICH LINE IS IN USE.

NOTE 4: MANUAL SETS ARE SAME AS CORRESPONDING DIAL SETS EXCEPT THE DIAL IS REPLACED WITH A 95A-3 APPARATUS BLANK, OBTAINED BY CONVERSION OF DIAL SETS AT THE DISTRIBUTING HOUSE.

NOTE 5: A NO. 7-TYPE BUZZER MAY BE MOUNTED IN THE SETS IN PLACE OF THE RINGER, WHEN DESIRED, BY USING A 44A BRACKET.



Fig. 1—560-Type Telephone Set



Fig. 2—540-Type Telephone Set



Fig. 3—565E-Type Telephone Set