BELL SYSTEM PRACTICES Station Installation and Maintenance

SECTION C32.558
Issue 1, July, 1954
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.

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- 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.
- 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

- The 540- and 560-type telephone sets are furnished with 3.01 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.
 - For feature combination and coding of the 540- and 3.02 560-type telephone sets, see Table A.

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

FEATURE	CODING						
STATION CONTROL KEY ARRANGEMENT	KEY	ILLUMINATED KEY BUTTONS (LESS LAMPS)	STATION BUSY LAMP	SET CODE SEE NOTE 4		CORD	KEY CODE
	NOTE I SEE NOTE 2		SEE NOTE 3	DIAL	MANUAL		
"0000				54088	540BA	D140-3	588A
HOPOPOPO		V		54488	5448A	019 A-3	5888
	V	V	V	545 BB	545 BA	D24B-3	3000
rototò		V		544 AB	544 AA	D25A-3	588C
"0°0°0°0°0		V		56488	564 BA	D28A-3	589A
"0"0"0"0"0		V		564CB	564 CA	D25A-3	589D
"0°0°0°0°0		V		564 DB	564 DA	D25A-3	589E
المارة	V	V	V	565 BB	565BA	D34A-3	5898
	V	V	V	565 AB	56 5 AA	D34A-3	589C
#0°0°0°0°°	V	V	V	565EB	565 E A	D31A-3	589F

- H = HOLD NON LOCKING
- C = CUTOFF (TURN BUTTON)

 PS = PICKUP LOCKING, CONVERTIBLE TO SIGNALING NON LOCKING. CHANGE CAN BE MADE IN THE FIELD BY INSTALLER. = PICKUP - LOCKING S = SIGNAL - NON LOCKING
- NOTE 1: THE EXCLUSION FEATURE IS A PLUNGER OPERATED SWITCH, AND THE LEADS FROM THIS SWITCH ARE EQUIPPED WITH SPADE TIPS SO THAT THEY GAN 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 444 BRACKET.



Fig. 1-560-Type Telephone Set



Fig. 2-540-Type Telephone Set



Fig. 3-565E-Type Telephone Set

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ADDENDUM C32.558 Issue B, 11-1-54-N T. P. T. & T. Co.

TELEPHONE SETS 540 AND 560 TYPES DESCRIPTION AND USE

1. GENERAL

- 1.01 This addendum which supplements Section C32.558, is issued to provide information regarding those 540 and 560 type telephone sets that are stocked at the Local Distributing House. This addendum should be retained with subsequent issues of the section until notice is given covering its cancellation or reissue.
- 1.02 Table A of this addendum replaces Table A of the section. In order to reduce requirements for various types of Key-In-Base sets seven telephone sets have been selected for use in this Area. These seven telephone sets should fill all requirements for the 540 or 560 type telephone set.
- 1.03 Normally the 540 or 560 type telephone set should only be ordered when required for transmission reasons, usually in transmission Zone 5. Requisitions should be marked "DO NOT SUBSTITUTE" when these telephone sets are required.
- 1.04 When supply conditions warrant, 540 or 560 type telephone sets may be substituted for the equivalent 440 or 460 type telephone sets.
- 1.05 Insofar as possible 540 or 560 type telephone sets should not be installed on the same key telephone system as 440 or 460 type telephone sets.

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TABLE A

Feature Combinations Provided And Corresponding Codes of 540 And 560 Type Telephone Sets

FEA TURE	EXCLUSION KEY	LAMPS SEE NOTE	STATION BUSY	SET	CODE MANUAL	CORD CODE		
HPPP HPPPS HPPPPP PPPPSPSPS HPPPPSPSPS HPPPPSC	2.00	NO YES YES YES YES YES YES	NO NO YES NO YES YES YES	540BB 544BB 545BB 564BB 565AB 565BB 565EB	540BA 544BA 545BA 564BA 565BA 565BA 565EA	D19A-3 D24B-3 D28A-3 D34A-3	See Note 2 Gee Note 1&2 See Note 1&2 See Note 1&2 See Note 1&2 See Note 1&2 See Note 1&2	4

H-Hold

P-Pickup

Ps-Convertible Pickup Signal C-Cutoff

- NOTE 1: Arranged for but not equipped with 51A lamps.
- NOTE 2: Normally used when transmission requirements require improved transmission features of the 500 type set (Zone 5). Mark requisitions "Do Not Substitute". The 500 series, 540 and 560 type telephones are connected at the factory for use on lA Key Telephone Systems.