

**BELL SYSTEM PRACTICES**  
**Station Installation and Maintenance**

**SECTION C32.540**  
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**AT&T Co Standard**

## **TELEPHONE SETS**

### **510 AND 511 TYPES**

### **DESCRIPTION AND USE**

#### **1. GENERAL**

- 1.01 This section gives general information pertaining to the 510 and 511-type telephone sets.
- 1.02 The 510 and 511-type telephone sets supersede 410 and 411-type telephone sets. They are made available to provide the improved performance capabilities of the 500 series telephone sets.

#### **2. DESCRIPTION AND USE**

2.01 The 510 and 511-type sets are similar in appearance to the 500-type sets except that a single transparent combination turn and push button (584A key) is provided below and to the left of the dial. The 511-type sets are equipped with a plunger switch (to provide exclusion) in addition to the combination turn and push button. See Figs. 1 and 2.

2.02 The combined turn and push-button key when rotated is locking in both positions. When the key button is depressed it operates a set of contacts the same as a push button and is non-locking. No provision is made to illuminate the turn button.

2.03 The sets contain components used in the 500 series telephone sets, e.g., C-4 ringer and its volume adjustment control, the 425B network for transmission equalization, the 7A-3 dial or the 95A-3 apparatus blank for manual service, the G1A-3 hand set, etc.

2.04 The 425B network is enclosed in a metal container, therefore, no additional shielding is required to prevent crosstalk.

2.05 A No. 7-type buzzer may be mounted in the sets in place of the ringer, when desired, by employing a 44A bracket. The buzzer may be used as an intercommunicating signaling buzzer or as a common line signal.



Fig. 1—510-Type Telephone Set



Fig. 2—511-Type Telephone Set

2.06 The following table lists the features provided by the 510 and 511-type sets.

TABLE 1  
Feature Combinations Provided and Corresponding Codes  
of Telephone Sets and Cords

TELEPHONE SET CODES			FEATURES									
MANUAL (See Note 1)	DIAL	MOUNTING CORD	Number of Lines Picked Up	Signalling Circuit	Line Ringer (See Note 2)	Common or Pvt. Line Ringer or Buzzer	Exclusion	Ringer or Buzzer Cut Off by Excl. Key	Cut Off by Key			
									Ringer or Buzzer in Set	Ext. Station or Ringer	Head Receiver Listening-In Sta.	
510-A	510-B	D4AS	2		√							
			1	√	√							
			1	√	√				√			
			1		√						√	
			1		√					√	√	
			1		√							√
510-E	510-F	D6S	2	√	√							
			2			√						
			1	√	√						√	
			1	√	√					√	√	
			1	√	√							√
511-A	511-B	D10E	2	√	√		√					
			2	√		√	√					
			2	√		√		√				
			1	√	√		√				√	
			1	√	√		√			√	√	
			1	√	√		√					√

Note 1: Manual sets are same as corresponding dial sets except dial is replaced with apparatus blank and slate-white cord is transferred to "RR" terminal on network.

Note 2: The normal connections for the line ringer for the 510-type telephone sets provides for ringing on line 1. If ringing on line 2 is required, connect the red and black ringer leads to terminals 3 and 4, respectively.

### 3. APPARATUS

3.01 Components and parts for the 510 and 511-type sets which may be needed for replacement purposes are indicated by arrows and numbers in Figs. 3 and 4, and are listed in Table 2.

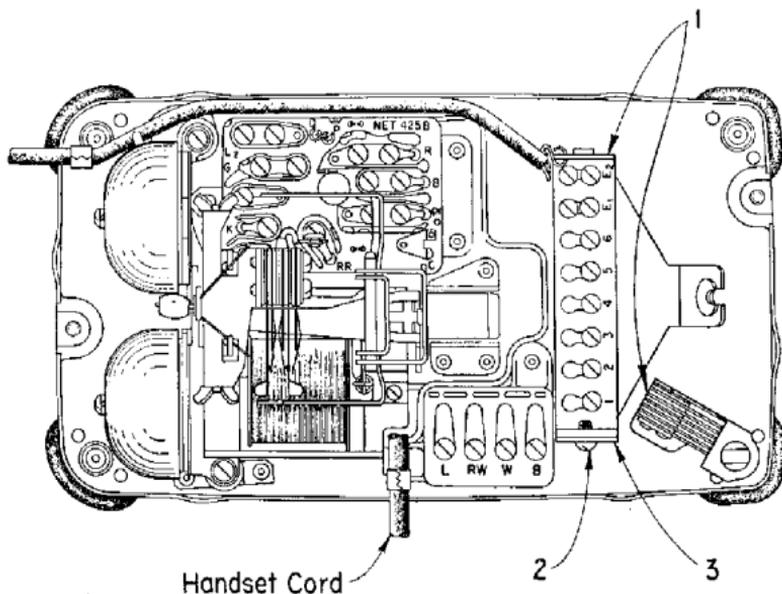


Fig. 3—Top View of 511-Type Set Without Housing Assembly

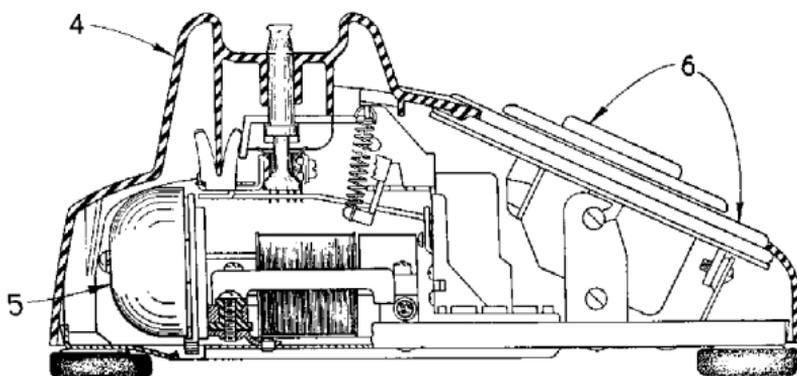


Fig. 4—Side View of 511-Type Set Through Housing Assembly

**TABLE 2**

<u>Number</u>	<u>Piece Part Number</u>	<u>Item</u>
1	P347015	Term. Strip and Key Assembly
2	—	Screw, R.H.M. St. 138-32 x 1/4
3	P338888	Retainer
4	{P19A418 {P339919	Housing Assembly—511-Type Sets Housing Assembly—510-Type Sets
5	—	C4A Ringer
6	—	7A-3 Dial (shown) or 95A-3 Apparatus Blank

3.02 Other components and parts not shown in Figs. 3 and 4 are:

Cords: D4AS-3 Mounting Cord (see Note 1)  
 D6S-3 Mounting Cord  
 D10E-3 Mounting Cord  
 H4BF-3 Hand Set Cord (see Note 2)

Handset: G1A-3 Hand Set

Note 1: The D4AU-3 cord, which is a retractile mounting cord may be substituted for the standard D4AS-3 cord when indicated on the service order or on proper authorization.

Note 2: When indicated on the service order or on other proper authorization, the H4BH-3 cord (fully retractile) or the H4BD-3 cord (semi-retractile) may be substituted for the standard H4BF-3 hand set cord.

3.03 The D4AS-3 is a four conductor cord, the D6S-3 has six conductors, the D10E has ten conductors. The conductors of the D6S-3 cord and the D10E-3 cord are arranged to reduce crosstalk.