

## TELEPHONE SETS—502, 503, 510, 511, AND 558 TYPES

### IDENTIFICATION AND ASSEMBLY OF PARTS

#### 1.00 INTRODUCTION

Information in this section was formerly in section entitled Telephone Sets — 502, 510, 511, and 558 Types — Identification and Assembly of Parts.

#### 2.00 GENERAL

**2.01** Sets of types 502, 503, 510, and 511 are the same size and shape as the 500-type set. The 558-type set is the same size and shape as the 554-type set.

**2.02** These sets have the transmission and signaling features of 500-type sets plus keys for transfer, signal, and exclusion features.

**2.03** Code numbers such as 502 AR/BR cover both manual and dial versions of each type telephone set. This permits converting from one to the other without changing the code number stamped on the base. The letter R has been added to indicate that the sets are equipped with spring handset cords.

**2.04** Table A shows feature combinations most often used.

#### 3.00 IDENTIFICATION

**3.01** Lifting the left plunger on the 502-type set (Fig. 1) operates exclusion switch which is restored to normal by replacing handset. The 502-type set has a set of switchhook contacts for A lead control on 1A1 key telephone systems. It also can be used on 101-type key equipment. The set is equipped with a 6-conductor mounting cord. It replaces 402A and B sets.

**3.02** The 503B-type telephone set is designed for use with various types of data sets, and is identical in appearance to the 502-type set. A data key is located on the telephone set switchhook assembly in the same position as an exclusion key and operates in the same manner. Application of

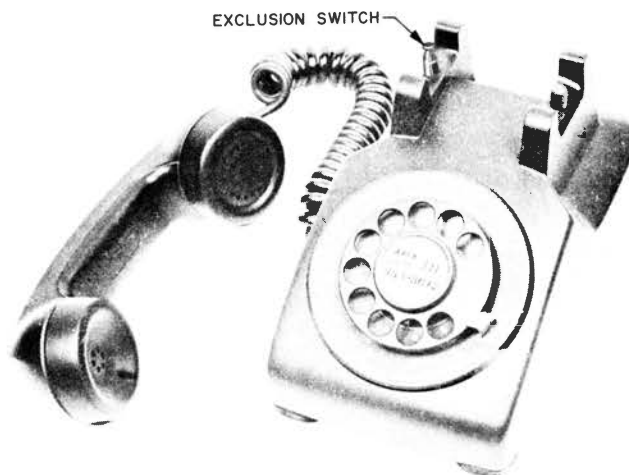


Fig. 1 — 502-Type Set

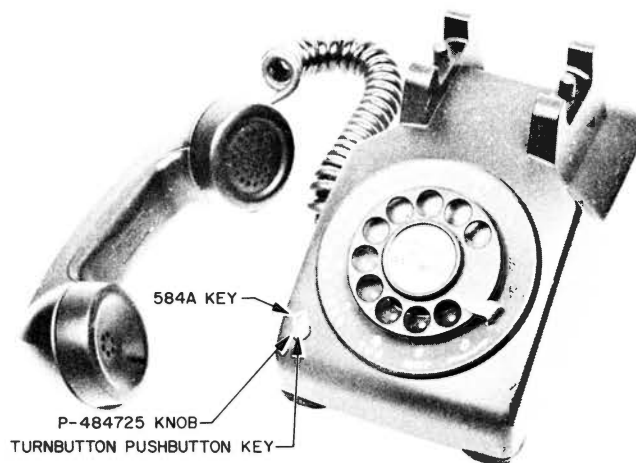


Fig. 2 — 510-Type Set

this key will be shown in section covering data sets used with 503B-type telephone sets. The set is equipped with a 6-conductor (D6AA-61) mounting cord.

**TABLE A**  
**FEATURE COMBINATIONS**

Code	Number of Lines Picked Up	Signaling Circuit	Line Ringer	Common or Private Line Ringer or Buzzer	Exclusion	Ringer or Buzzer Cutoff by Exclusion Key	Cutoff by Key		
							Ringer or Buzzer in Set	Extension Station or Ringer	Head Receiver Listening in Station
502AR BR	1		•		•				
	1			•		•			
510AR/BR	2		•						
	1	•	•						
	1	•	•				•		
	1		•					•	
	1		•						•
510ER/FR 558AR/BR	2	•	•						
	2			•					
	1	•	•				•		
	1	•	•					•	
	1	•	•						•
511AR/BR 511CR/DR* 558CR/DR*	2	•	•		•				
	2	•		•	•				
	2	•		•		•			
	1	•	•		•		•		
	1	•	•		•			•	
	1	•	•		•				•

\* Wired for speakerphone systems.

**3.03** Turning the turnbutton pushbutton key on the 510-type set (Fig. 2) transfers the talking circuit of the set to either of two lines. The key also can be used to cut off or transfer lines, extension stations, ringers, etc. Depressing the key button closes a pair of contacts providing a signaling arrangement. The 510AR/BR set is equipped with a 4-conductor mounting cord. It replaces 410AA and AC sets. The 510ER/FR set is equipped with a 6-conductor mounting cord. It replaces 410BA and BC sets.

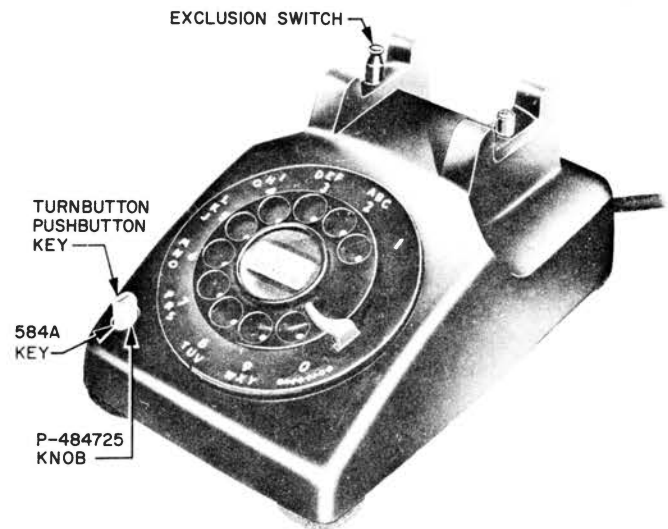
**3.04** The 511AR/BR set (Fig. 3) is equipped with a turnbutton pushbutton key, an exclusion switch, and a 10-conductor mounting cord. It replaces 410CA, CC; 411AA, AC, CA, and CC sets. The 511CR/DR set has the same features as 511AR/BR plus connections for the speakerphone systems. The CR/DR set is equipped with a 16-conductor mounting cord. It replaces 511AR/BR set.

**3.05** The 558CR/DR set replaces the 558AR/BR set and is equipped with an exclusion key and a turnbutton pushbutton key (Fig. 4).

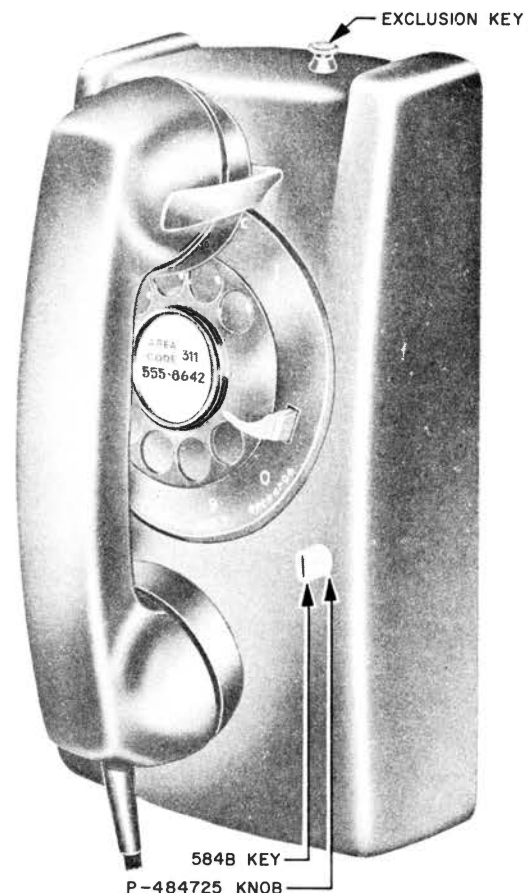
- The exclusion key provides means for disconnecting an extension station by raising the plunger which projects through the top of the housing. Key is returned to its normal position when handset is replaced on its hanger.
- When used in the home communication system, the exclusion key may be used to place a hold on the central office line while using the intercommunication line.
- The set may be arranged for use in the 1A and 2A speakerphone systems or for use in the home communication system by the rearranging of the ringer, exclusion key, and switchhook connection.
- Holes are provided in the baseplate as a means of mounting a 659A transmitter.
- The turnbutton pushbutton key may be used for switching and signaling.

#### 4.00 ASSEMBLY OF PARTS

**4.01** Only the assembly of parts which differs from the 500-type set will be shown in this section.



**Fig. 3 — 511-Type Set**



**Fig. 4 — 558-Type Set**

4.02 Fig. 5, 6, 7, 8, and 9 show internal parts of 502-, 503-, 510-, 511-, and 558-type sets. The buzzer and bracket (Fig. 9) are used in place of the C4A ringer for common or local signal.

## 5.00 COLOR

The 503B-type telephone set is available in gray only (-61). Other telephone sets in this section are available in colors shown in section entitled Telephone Apparatus — Color.

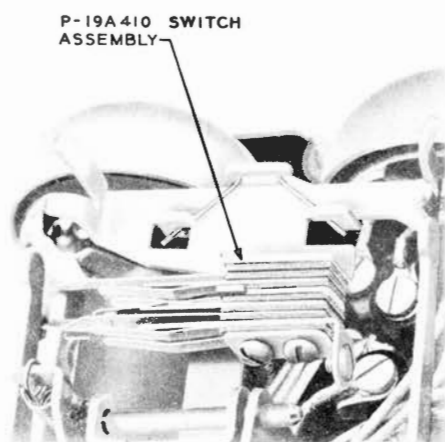


Fig. 5 — Exclusion Switch

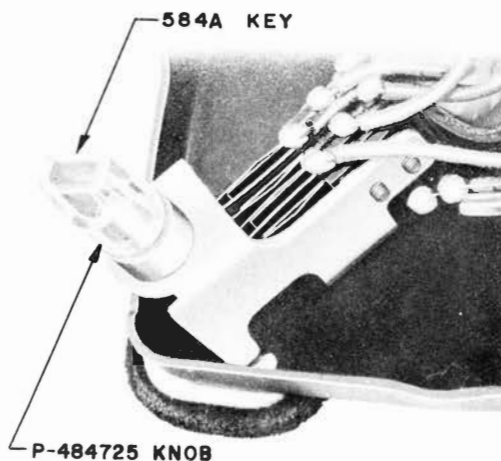


Fig. 6 — Turnbutton Pushbutton Key

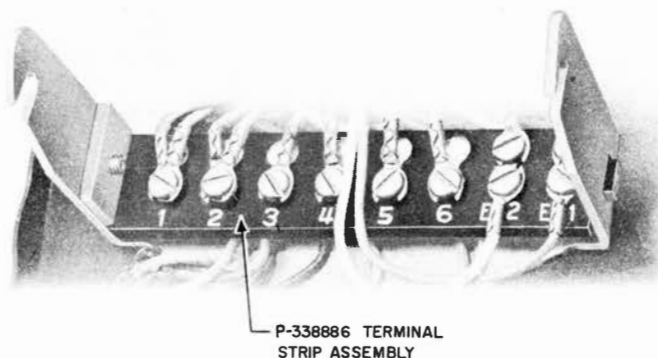


Fig. 7 — Terminal Strip

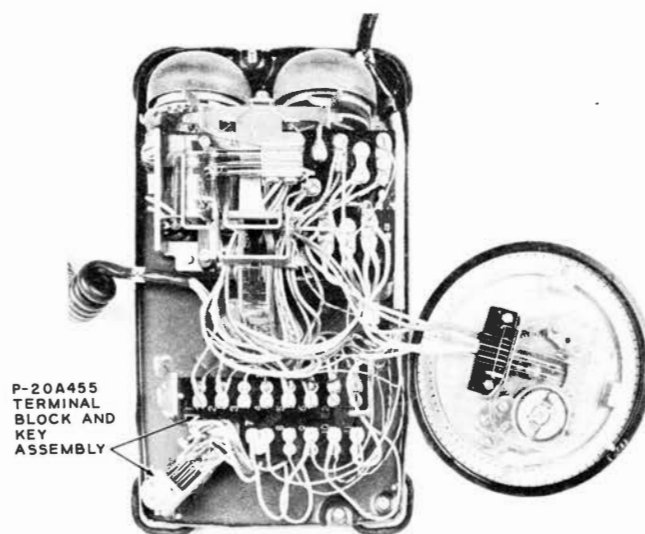


Fig. 8 — 511CR/DR Set

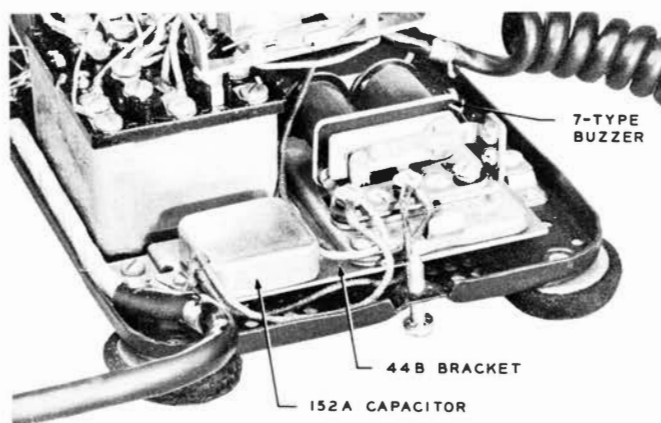


Fig. 9 — 7-Type Buzzer and 44-Type Bracket