

## REFERENCE

### 540, 544, AND 545 TYPE TELEPHONE SETS

#### 1. GENERAL

**1.01** This section provides identification and installation information for the 540B, 544A, 544B, and 545B key telephone sets which are rated MD.

**1.02** Code numbers such as 544BAR/BBR cover manual and dial versions, respectively, of the same type telephone set. This permits conversion to either dial or manual service without changing the code number stamped on the base. To convert from dial to manual, replace the dial with a 95B apparatus blank and make the necessary wiring changes.

#### 2. IDENTIFICATION

**2.01** The 540B (MD), 544A (MD), 544B (MD), and 545B (MD) telephone sets (Fig. 1 and 2) are desk-type, 4-button key telephone sets intended for use in 1A, 1A1, or 1A2 key telephone systems.



Fig. 1—540-Type Telephone Set

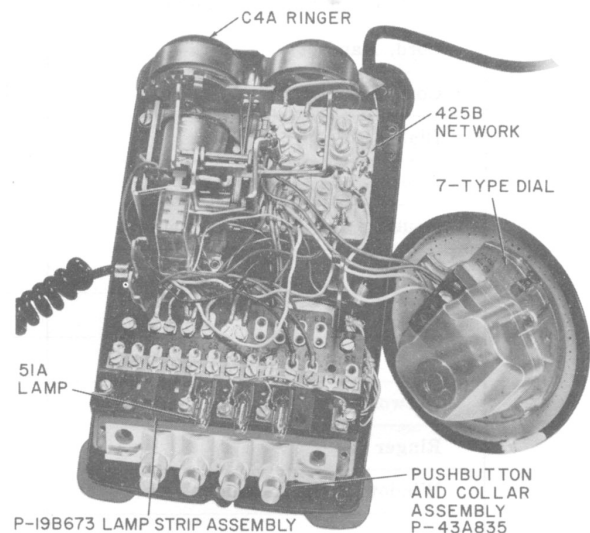


Fig. 2—540-Type Telephone Set, Interior

**2.02** The 545B (MD) telephone set contains an exclusion plunger and a P-19B600 exclusion switch assembly. The station busy lamp may be added.

#### 3. INSTALLATION

##### Key

**3.01** The 588B 4-button key used in the 544A/B and 545B telephone sets has a hold and three pickup buttons. The last one on the right may be converted to signaling by removing the P-12A892 screw detail and making the necessary wiring changes.

**3.02** An unused button can be blocked with the P-12A858 blocking ring furnished (Fig. 3).

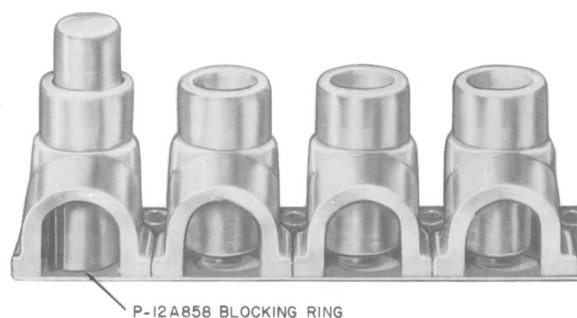
**3.03** The button and collar assembly (Fig. 2) rests on top of the key plungers and is held in place by the housing through which the buttons protrude. A collar on the buttons serves to direct

**TABLE A**  
**COMPONENT ORDERING GUIDE**

COMPONENT	TELEPHONE SET			
	540B (MD)	544A (MD)	544B (MD)	545B (MD)
Replaceable:				
Button and Collar Assembly	P-43A835			
Cord, Handset	H4CJ-*			
Cord, Mounting	D14D-*	D25A-*	D19A-*	D24B-*
Dial	7- or 9-type or 95B Apparatus Blank			
Handset	G1AR-3 or G3AR-*			
Housing and Plunger Assembly	P-19B555-*			
Key	588A	588C		588B
Key Lamps		51A		
Lamp Strip Assembly		P-19B673		
Network	425B			
Ringer	C4A			
Window Strip Assembly	P-17A101			
Optional:				
Buzzer and Capacitor Assembly	7-type buzzer and 152A capacitor or KS-20419†			

\* Add appropriate color suffix. For colors available, see Section 500-120-100.

† Buzzer and capacitor mounts on a 44B bracket. Each part must be ordered separately.



**Fig. 3—P12A858 Blocking Ring, Installed**

the light from the lamps to the plastic buttons for maximum illumination.

**3.04** The 588-type key is fastened to the base assembly by three screws. The 51A lamps are held in place by clip contacts on the lamp

strip. The lamp strip itself is a separate assembly fastened to the key with two screws.

**3.05** Lamps associated with the buttons may have common or individual grounds. See sections covering connections of individual telephone sets for lamp connections.

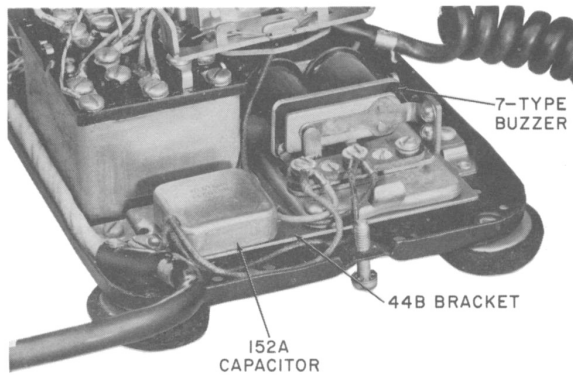
#### **Window Strip and Designation Cards**

**3.06** The removable window strip is held in place by two spring clips which fit into mating holes in the set housing and which also retain the designation card in place above the buttons.

**3.07** A designation card, form E-4227, printed in 6-button size is used with these sets and must be trimmed to fit the 4-button window strip assembly. A directory card, form E-4097, is obtainable for use with stations in key telephone systems having the dial-selective intercommunicating line circuit feature and must be trimmed to fit.

### Buzzer

**3.08** Fig. 4 shows the mounting of a 7-type buzzer and a 152A capacitor on a 44B bracket. These parts must be ordered separately.



**Fig. 4—Buzzer and Capacitor Assembly on 44B Bracket**

**3.09** The KS-20419 buzzer can be mounted in any convenient location such as the dial mounting bracket.

### Handsets

**3.10** The G1AR or G3AR handsets in these sets may be replaced by a G6AR (MD) or G6B handset for impaired hearing, a G7B for weak speech, or G8A for noisy locations. Refer to section covering handset for additional information.

### Mounting Cord

**3.11** Mounting cords are intended to terminate at 44A connecting blocks.