

TELEPHONE SETS — 401, 402, 410, 411,  
AND 412 TYPES  
IDENTIFICATION AND ASSEMBLY OF PARTS

1.00 GENERAL

1.01 These sets are the same size and shape as the desk-type 300 series telephone sets for indoor locations.

1.02 Transmission and signaling features are the same as the 300 series, plus keys for line transfer, local signaling, and exclusion.

1.03 Table A shows feature combinations most often used.

1.04 The section entitled Station Number Cards lists the dial number cards to be used with one key in base telephone sets.

2.00 IDENTIFICATION

2.01 Fig. 1 shows a 401- or 402-type set. These sets provide an exclusion feature for 1A key systems. The 402 set has additional switch-hook contacts for use with 1A1 and 101-type key equipment.

2.02 The turn-push-button key on the 410 type (Fig. 2) is used to provide line transfer and cutoff. Crosstalk reduction features incorporated in the 410-type set include twisted conductors in mounting cord, shield around induction coil, and additional lead on capacitor.



Fig. 1 — 401- or 402-type Set

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

Code		Cord Con- duc- tors	Lines Picked Up	Signal- ing Circuit	Line Ringer	Common or Private Line Ringer or Buzzer	Ex- clu- sion	Ringer or Buzzer Cut Off by Exclu- sion Key	Cut Off by Key			
Manual	Dial								Ringer or Buzzer in Set	Exten- sion Station or Ringer	Head Re- ceiver (2A Key Equip- ment)	
401AA	401AC	4	1		•		•					
402A	402C	6	1			•	•					
410AA	410AC	4	1	•	•				•			
			1		•						•	
			1		•						•	
			2		•							
411AA	411AC	6	1	•	•		•		•			
			1		•		•				•	
			1		•		•				•	
			2		•		•					
410BA	410BC	6	1	•	•						•	
			1	•	•					•		
			2	•	•							
			2			•						
411BA	411BC	10	1	•	•		•				•	
			1	•	•		•			•		
			2	•	•		•					
			2			•		•				
410CA	410CC	10	2	•		•						
411CA	411CC	10	2	•		•	•					
	412BC	10	2			•						

**2.03** The 411-type set is the same as the 410 type with exclusion key added.

**2.04** The 412BC set (identical in appearance to the 410 type) is intended for use with secretarial service switchboards of the 554 type. It is furnished wired for tip-party dial message rate service.

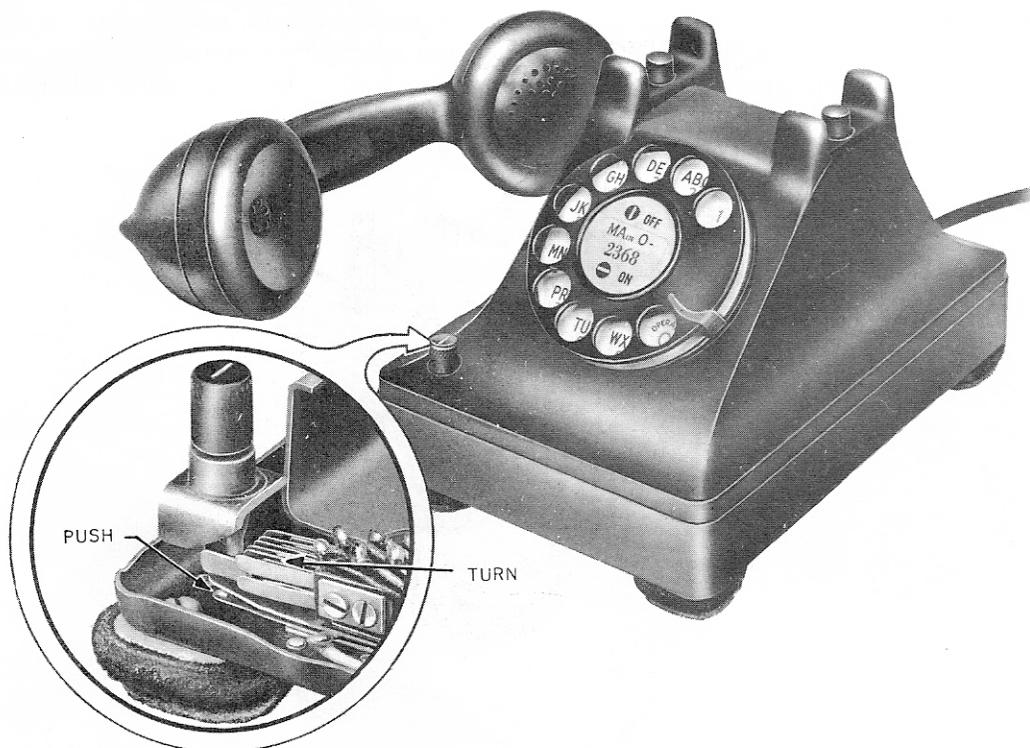
### **3.00 ASSEMBLY OF PARTS**

**3.01** Only the assemblies of parts which differ from the 300-type set will be shown in this section.

**3.02** Fig. 3, 4, and 5 show internal parts of the 400 series sets.

**3.03** The buzzer and bracket (Fig. 5) may be used in place of the B-type ringer for common or local signal.

**3.04** A 61P filter, when required for dial pulse suppression, can be installed under dial mounting screw.



**Fig. 2 - 401-type Set**

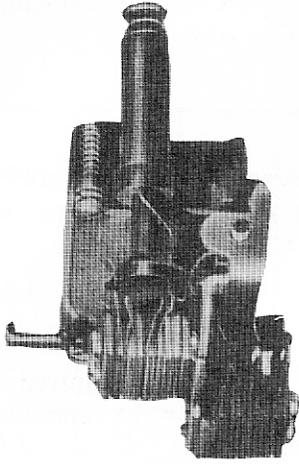


Fig. 3 - Exclusion Key Assembly Removed from Set (Key in Operated Position)

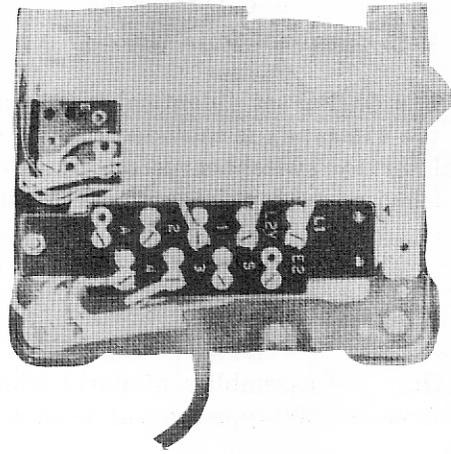


Fig. 4 - Typical Terminal Strip

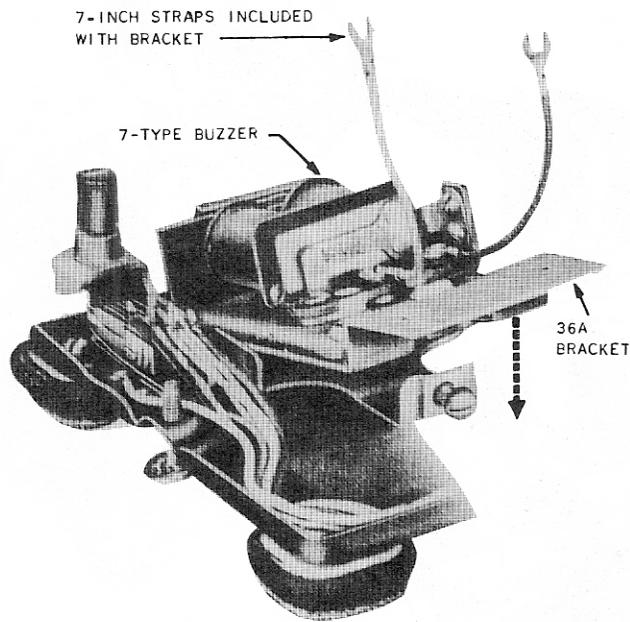


Fig. 5 - Ringer Replaced by 7-type Buzzer