

TELEPHONE SETS
401, 402, 410, 411, AND 412 TYPES
MAINTENANCE

1.00 GENERAL

1.01 This section supplements the section entitled Telephone Sets, 300 Series, Maintenance.

1.02 Maintenance requirements and procedures for telephone set components such as buzzer, ringer, dial, handset, etc, are covered in the respective sections.

1.03 Circuit diagrams are provided in the connections section.

1.04 Table A gives parts information.

2.00 EXCLUSION KEY

- The exclusion plunger shall remain in the operated position when pulled up to the full extent of its travel.
- It shall return to the fully depressed position when the handset is placed on the cradle.
- The exclusion plunger shall drop by its own weight from the midposition to the fully depressed position when the left plunger is fully depressed.

3.00 COMBINATION TURN- AND PUSH-BUTTON KEY

- The turn-push button should operate freely in either position and return to normal

after being depressed to the limit of its stroke.

- It shall lock reliably when fully rotated and shall return to the unoperated position when released slowly from the operated position.
- It shall not be possible to make or break the contacts, as the case may be, by any side thrust against the key button in either the operated or the unoperated position.
- When the plunger is fully depressed, there shall be perceptible clearance between the bottom push-button contact and the base of the set.
- The contacts of the turn-button combination shall not be made or broken by the operation of the plunger as a pushbutton.

4.00 SWITCHHOOK AND KEY CONTACTS

4.01 Check operation observing that make contacts have follow and break contacts have separation.

4.02 Maintenance should be limited to cleaning of contacts (265C burnishing tool) and minor adjustments.

- Extensive adjustment of contacts may be done as a temporary measure to restore service until a replacement telephone set is available.

TABLE A
PARTS INFORMATION

Part	Code	Remarks
Apparatus Blank	82A-3	Also 94A-3
Capacitor	195A	One-line sets
	195B	2-line sets
Cords		C Section entitled Station Cords
Dial	5H or 6A	
Dial Adapter	59A	Rubber gasket
Filter (Optional)	61P	Suppress dial interference
Handset	F1G	
Induction Coil	101A	412BC set uses 101B
Key	559A	574A (turn button) is used with 412 set
Ringer	B1AL	B2AL is used with 412BC set
Shield (Induction Coil)	39A	2-line sets only