

**TELEPHONE SETS FOR INDOOR LOCATIONS—300 SERIES**  
**IDENTIFICATION AND ASSEMBLY OF PARTS**

**1. GENERAL**

**1.01** This section describes the 300 series telephone sets and gives principal uses and component information for these sets.

**1.02** This section is reissued to show installation methods for the D3BU mounting cord.

**2. TABLE INDEX**

Table A — Telephone Set Codes

Table B — Components

Table C — Identification, Features, and Principal Uses

**TABLE A**  
**TELEPHONE SET CODES**

Type Service	Type Set											
		302	304	305	306	307	309	332	334	354	356	357
Manual	A		•		•	•	•	•		•	•	•
	AA	•										
	E	•		•		•						
Dial	AC	•										
	B		•		•	•						
	C		•		•	•	•	•	•	•	•	•
	D		•		•							
	F	•		•		•						
	G	•		•	•	•						
	H	•		•								

**TABLE B**  
**COMPONENTS**

Telephone Set	Dial	Apparatus Blank	Induction Coil	Ringer	Capacitor	Filter	Mounting Cord	Electron Tube**	Retardation Coil							
302E*		82A, 94A	101A	B1AL	195A	61P	D3BP or D3BU§									
302F*	6A or 5HA															
302G*	6A or 5HB															
302H*	6A or 5HE															
302AA*		82A, 94A														
302AC*	6A or 5HB		101A	B1AL	195A	61P‡	D3BP or D3BU§									
304A*		82A, 94A	101B	B2AL		61P‡										
304B*	6A or 5HA					61P										
304C*	6A or 5HB															
304D*	6A or 5HE															
305E*		82A, 94A			101A	B1AL	195A	61P	D3BP or D3BU§							
305F*	6A or 5HA															
305G*	6A or 5HB															
305H*	6A or 5HE															
306A*		82A, 94A	B3A	195C									426A			
306B*	6A or 5HA		101A	B3A	195C	61P	D3BP or D3BU§ D5AA	426A								
306C*	6A or 5HB															
306D*	6A or 5HE															
306G*	6A or 5HB															
307A†										82A, 94A	104A	B1AL	387A			266A
307B†	6A or 5HA	82A, 94A	104A	B1AL	387A	61P	D5AA		266A							
307C†	6A															
307E*																
307F*	6A or 5HA															
307G*	6A or 5HB															
309A†		82A, 94A	104A	B3A	195A	61P	D5AA	426A	266A							
309C†	6A or 5HB															
332A*		82A, 94A								101A	B1AL	195A and 129F	61N			
332C*	6A or 5HB															
334C*	6A or 5HB															
354A†		94A	101B	B2AL	195A	61E or 61G										
354C†	6A or 5HB															
356A†		94A														
356C†	6A or 5HB									101A	B3A	195C	426A			
357A†		94A								104A	B1AL	387A	61E or 61G		266A	
357C†	6A or 5HB															

Note 1: The 307E, F, and G telephone sets use an F2B hand set. All others use an F1G.

Note 2: The 305-type telephone set is equipped with a 560A key.

Note 3: The 332- and 334-type telephone sets are equipped with a 111B amplifier.

§ The D3BU cord is a heavy duty cord available in 9, 13, and 25-foot lengths only.

\* Rated Manufacture Discontinued (MD).

† Standard.

‡ 302AA and AC telephone sets must be equipped with a 61-type filter. Filters on other sets are optional.

\*\* Mount tube with P-348078 bracket.

**TABLE C**  
**FEATURES AND PRINCIPAL USES**

Type Set	Feature	Use
302		General use—dial and manual areas (Fig. 1 and 2)
302AA, AC	LIFT PLUNGER TO DIAL OR TALK (Fig. 3)	Prevents party-line interference
304	Tip party identification	ANI service
305	Ringer cutoff (Fig. 4)	Ringer cutoff
306 (Note 1)	Cold cathode tube (Fig. 5)	Polarized ringing
307 (Note 2)		Local battery talking, common battery signaling (Fig. 6)
309	Cold cathode tube	
332, 334	111B amplifier volume control plunger (Fig. 7, Note 3)	Amplifies incoming speech
354		General use—dial and manual areas
356	Cold cathode tube	Selective ringing
357 (Note 4)		Local battery talking, common battery signaling (Fig. 8)

**Note 1:** The 306G set is equipped with a lift-to-dial or talk plunger.

**Note 2:** When two or more telephone sets are connected to the same talk battery, use a 307E, F, or G telephone set and a battery supply filter.

**Note 3:** Requires a 4½-volt dry cell battery. Right plunger serves as volume control for amplifier.

**Note 4:** Use an F2B hand set when two or more 357-type telephone sets are connected to the same talk battery. Install a filter in each transmitter circuit.

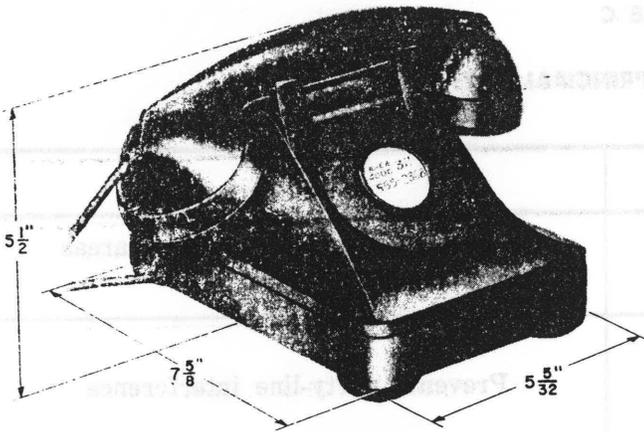


Fig. 1 - 302A or 302E Telephone Set



Fig. 4 - 305C Telephone Set

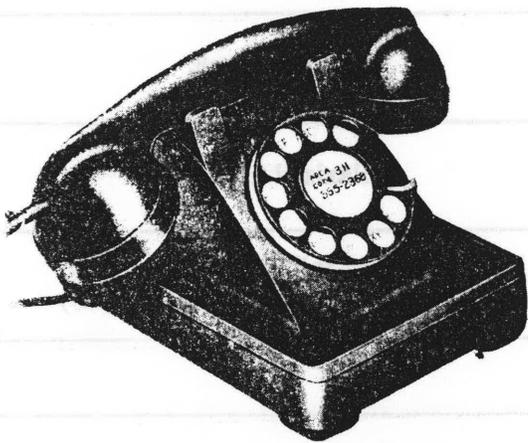


Fig. 2 - 302G Telephone Set

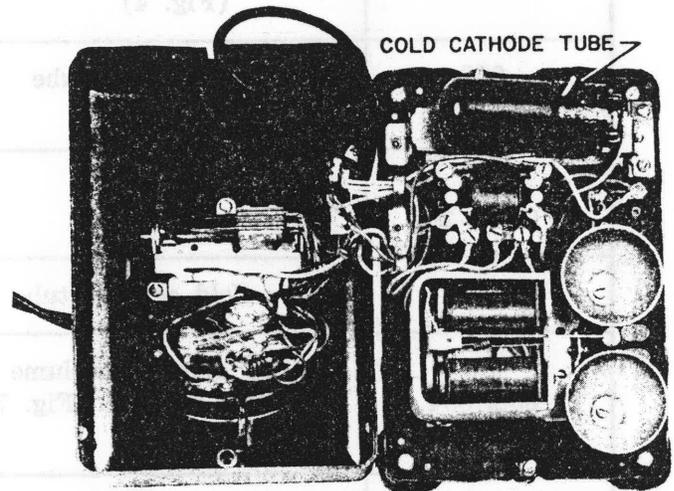


Fig. 5 - 306C Telephone Set, Interior



Fig. 3 - 302AC or 306G Telephone Set

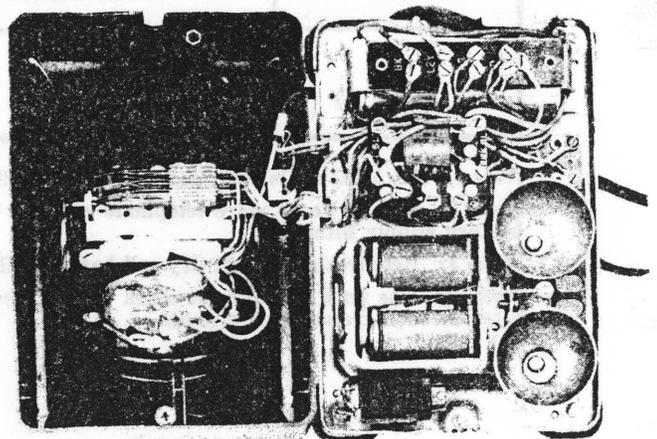


Fig. 6 - 307C Telephone Set, Interior

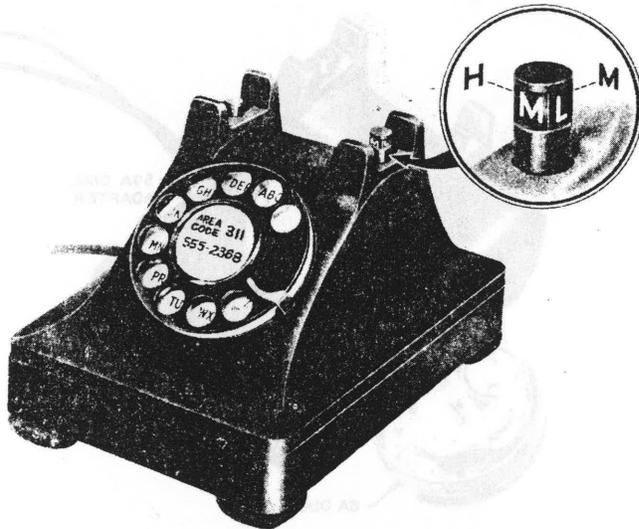


Fig. 7 - 332C or 334C Telephone Set

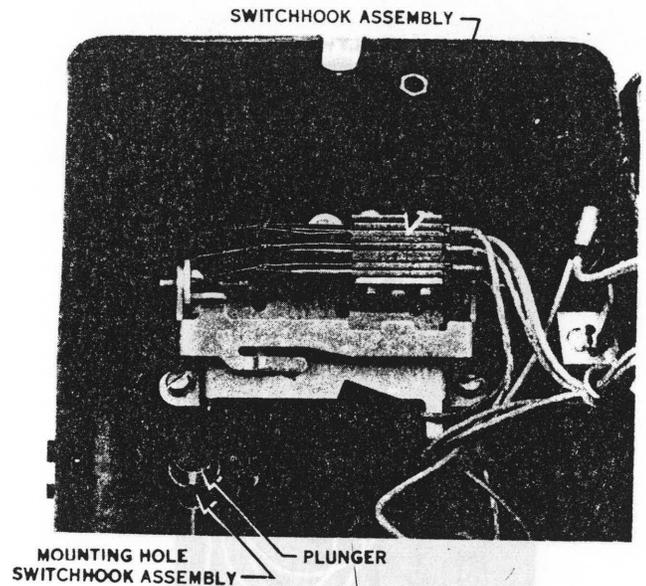


Fig. 9 - Plunger and Switchhook Assembly

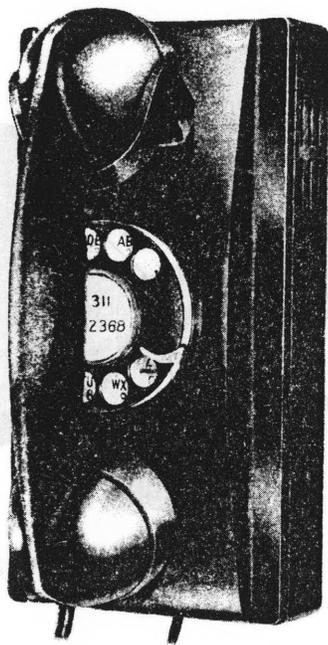


Fig. 8 - 354C, 356C, or 357C Telephone Set

### 3. ASSEMBLY OF PARTS

#### Housing

3.01 The housing on the 302- and 354-type telephone sets is held to the base by two captive screws.

#### Switchhook Assembly

3.02 The switchhook assembly holds the plungers and handhold cover in place on the 302-type telephone (Fig. 9).

3.03 The switchhook assembly for the 354-type telephone is shown in Fig. 10.

#### Dial and Dial Adapter

3.04 The assembly of a 6A dial with a 59A adapter in the 302G telephone set is shown in Fig. 11. Fig. 12 shows the assembly of a 5H dial in the 354C telephone set.

3.05 When a 59A dial adapter is used with a 6-type dial, it may be necessary to alter the dial adapter. Modify to provide clearance without bending between the plastic cover on the dial and the dial adapter. Cut the adapter to the approximate dimensions shown in Fig. 13. The adapter may then be used interchangeably with the 5- or 6-type dial.

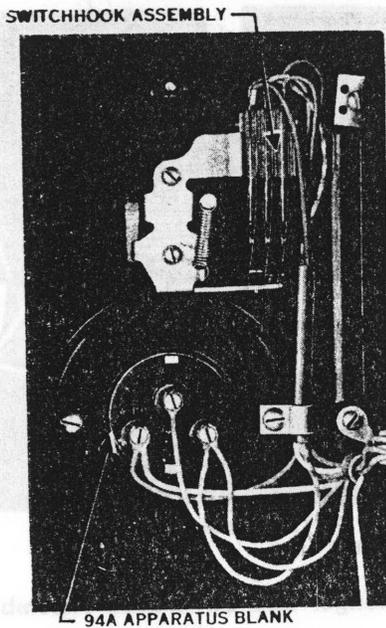


Fig. 10 - Switchhook Assembly and 94A Apparatus Blank

3.06 Position cord tips and dress wires connected to dial terminals so they do not short adjacent terminals or interfere with moving parts.

3.07 On desk sets the terminals of the 6-type dial may obstruct the ringer clapper rod when the ringer is mounted on a triangular mounting bracket. To provide necessary clearance, place two captive mounting washers on each of the mounting screws which hold the upper housing to the baseplate of telephone set. (See Fig. 14.)

3.08 The 94A (Fig. 10) replaces the 82A apparatus blank (Fig. 15) in the 300 series telephone sets.

**Ringer**

3.09 Place ringer as shown in Fig. 14 when using the P-43A293 bracket. Place ringer as shown in Fig. 16 when using the P-298695 bracket. The left ringer gong is omitted from Fig. 16 for clarity.

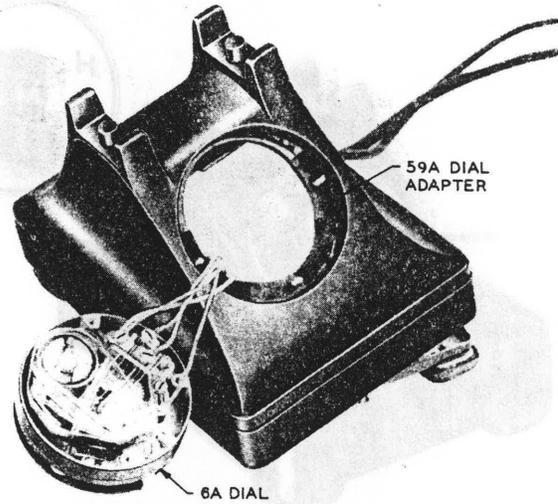


Fig. 11 - Dial Assembly, 302G Telephone Set

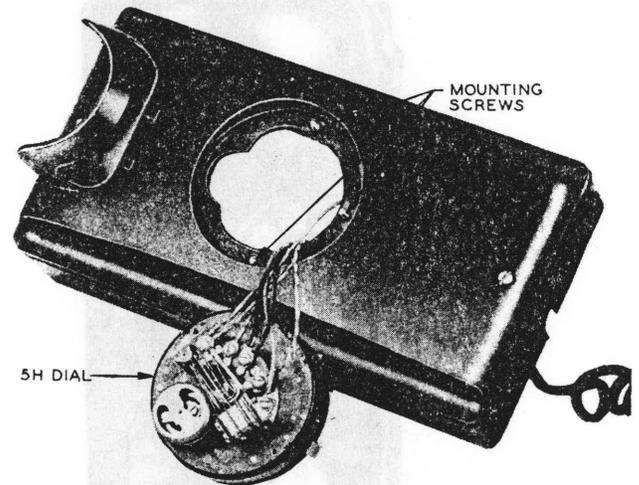


Fig. 12 - Dial Assembly, 354C Telephone Set

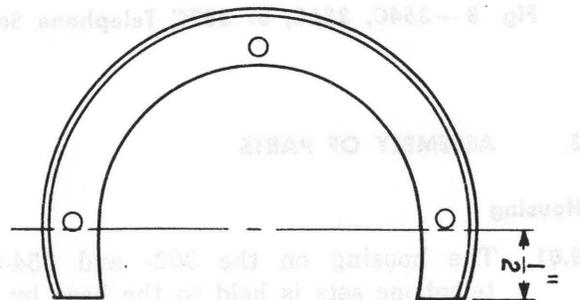


Fig. 13 - Modified 59A Dial Adapter

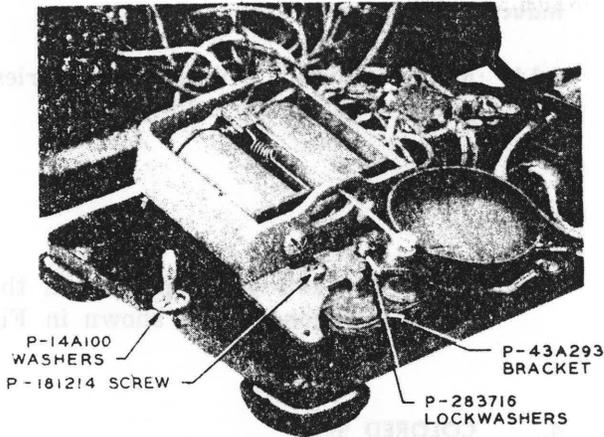


Fig. 14 - Ringer Assembly

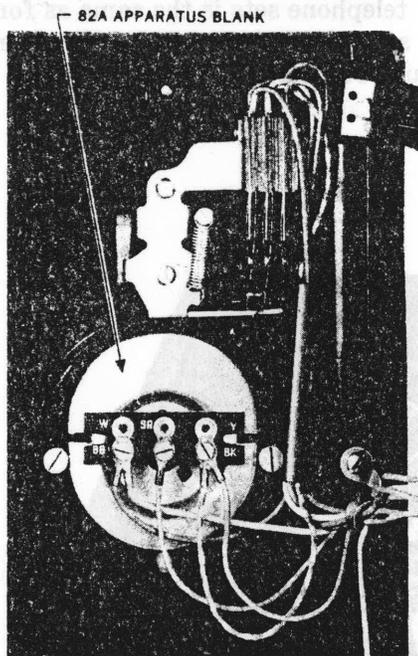


Fig. 15 - 82A Apparatus Blank

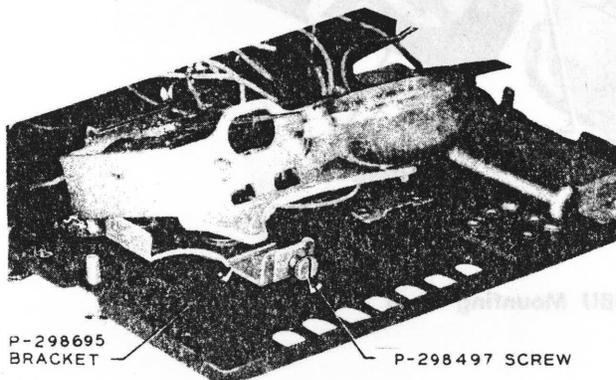


Fig. 16 - Ringer Assembly Using P-298695 Bracket

**Volume Control**

3.10 Install the ringer volume control assembly as follows:

- (1) Remove left gong.
- (2) Place mounting bracket on set base. Be sure hook and ears are in place (Fig. 17) before securing mounting screw.
- (3) Place gong on ringer volume control assembly using a P-10E127 washer (Fig. 18).

3.11 The volume control lever has three positions; high, medium, and low.

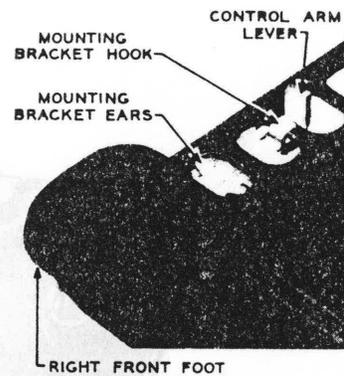


Fig. 17 - Mounting Bracket

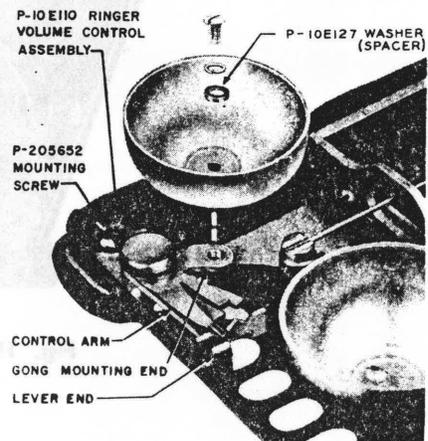


Fig. 18 - Ringer Volume Control Assembly

**Cords**

**3.12** Anchor cords properly within the mounting. Attach mounting cord first, towards hinge of set, then attach handset cord. Dress cord leads to avoid interference with ringer gongs.

**3.13** When using the D3BU mounting cord (Fig. 19), fasten as follows:

- (1) Remove screw from stayhook fastener.
- (2) Place screw through hole in stayhook.
- (3) Replace stayhook fastener.
- (4) Dress cord as shown in Fig. 19.

**Induction Coil**

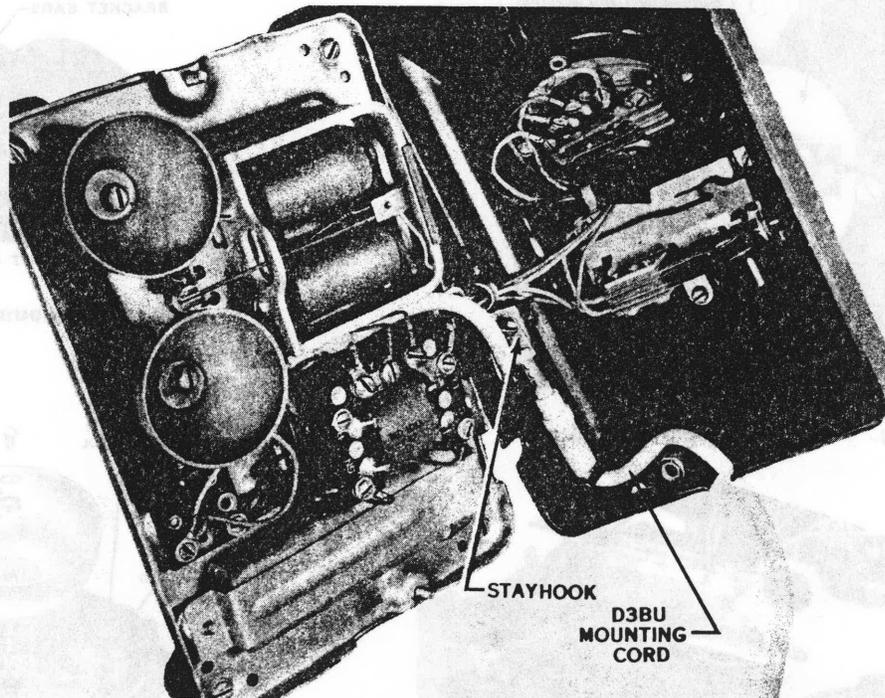
**3.14** Mount induction coil in the 300 series telephone set as shown in Fig. 20.

**Capacitor**

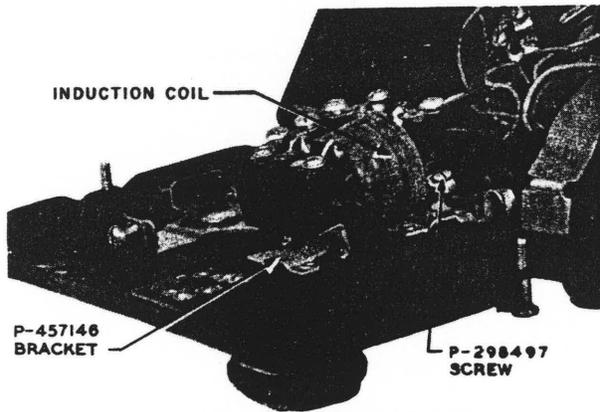
**3.15** Mount the 195-type capacitor in the 300 series telephone set as shown in Fig. 21.

**4. COLORED SETS**

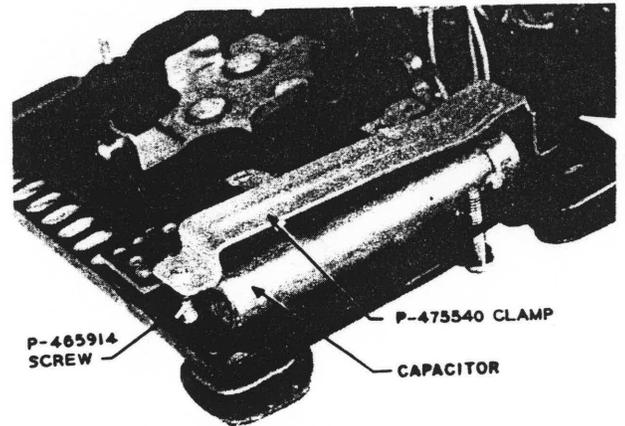
**4.01** The assembly of parts for 300 series colored telephone sets is the same as for black telephone sets. If replacement of these sets is necessary, use 500 series colored telephone sets.



**Fig. 19 — Installing D3BU Mounting Cord**



**Fig. 20 — Induction Coil Assembly**



**Fig. 21 — Capacitor Assembly**