

## REFERENCE

202A, B, C, D; 203A, B, C, D, E, F; 215A, B, C, D

## HAND TELEPHONE SETS

### 1. GENERAL

**1.01** This section contains identification and maintenance information for 200 series desk-type hand telephone sets.

**1.02** The 200 series desk-type telephone sets are equipped with D-type handset mountings. They are used with either induction coil or network-type subscriber sets in manual or dial areas, and also with magneto-type subscriber sets.

**1.03** Cording for hand telephone sets will not be covered in detail. However, cording should be done in a manner which will eliminate the possibility of the cord conductors coming in contact with any moving part, or making electrical contact with any terminal other than the one for which it is intended.

### 2. IDENTIFICATION

**2.01** The hand telephone set consists of a mounting, handset, apparatus blank or dial, mounting cord, and handset cord. The code marking for the mounting is stamped on the exterior of the mounting.

**2.02** Fig. 1 shows the dial desk-type hand telephone set with the D-type mounting (oval base). The earlier B-type mounting (round base) is not shown. Fig. 2 shows the oval base of the D-type mounting with felt and friction pads.

**2.03** When required, the 61N filter is used with the D-type handset mounting. When mounting a filter in a D-type handset mounting that is equipped with a 6-type dial, the dust cover must be removed from the dial and left off (Fig. 3).

**2.04** The D-type handset mounting may be equipped with a 4-, 5-, or 6-type dial (Fig. 4). The dust cover must be removed from the 6-type dial when used with the D-type handset mounting.

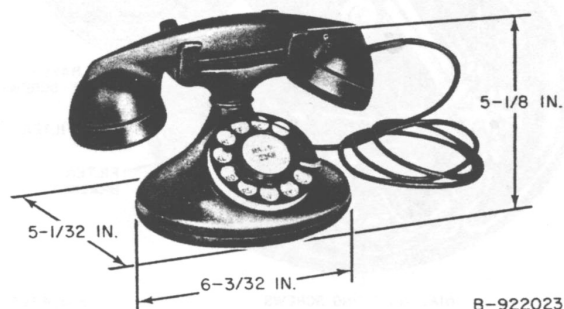


Fig. 1—Dial Desk-Type Set

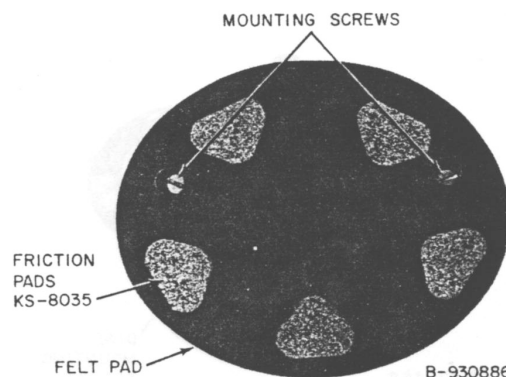


Fig. 2—Oval Base D-Type Handset Mounting

**2.05** Care should be exercised in connecting conductors to terminal R of 4- and 5-type dials and terminal W of 6-type dials to be certain that cord tips do not come in contact with the adjacent dial mounting screw or the flange of the handset mounting.

**2.06** The component parts of the desk-type hand telephone sets are shown in Table A.

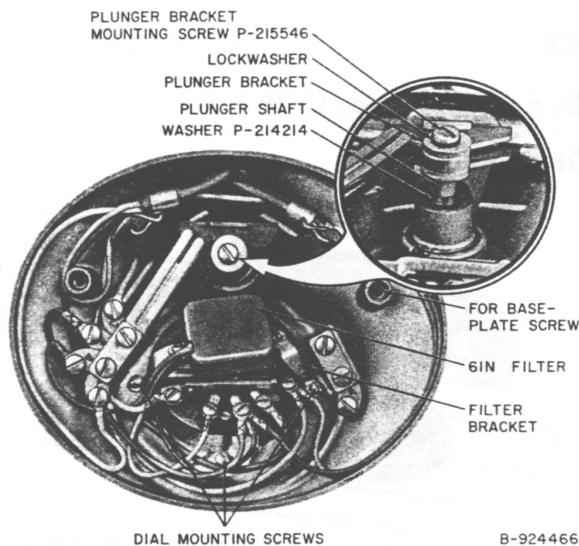


Fig. 3—Assembly of Filter on D-Type Handset Mounting (Dial)

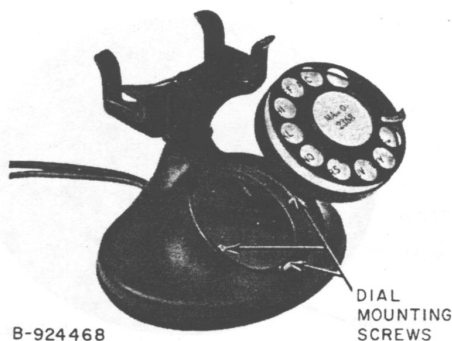


Fig. 4—Assembly of Dial on D-Type Handset Mounting

### 3. MAINTENANCE

#### Contact Alignment

**3.01** Point and disc contacts shall line up so that the point falls wholly within the circumference of the opposing contact disc (Fig. 5).

**3.02** Crossbar contacts shall line up so the width of one falls wholly within the contact surface of the other (Fig. 5).

**3.03** When the plunger is slowly released on D-type mountings, no contacts shall make or break until the plunger has raised at least 1/16 inch (Fig. 6).

**3.04** All contact springs shall have a perceptible follow. In case of mounting having twin contacts, both contacts on the same spring shall make at approximately the same time.

#### Adjustments

**3.05** Contact springs should be adjusted with a 466A tool. When adjusting long springs, move the 466A tool along spring, bowing slightly to increase or decrease tension. Be careful not to deform contacts (Fig. 7).

**3.06** On short springs, the 466A tool should be applied close to the spring pile-up, bending slightly (Fig. 8).

**3.07** When adjusting springs, take care not to kink them. Kinked springs should not be straightened unless they interfere with proper adjustment, as it tends to weaken spring.

#### Cleaning

**3.08** To clean contacts, burnish with the 265C tool having a clean blade.

#### Plunger

**3.09** The plunger shall move freely without binding or squeaking.

**3.10** Replace helical spring if improper tension is causing faulty operation.

**3.11** Dirt or gummy substance may cause binding of the plunger. Remove plunger assembly and clean plunger with KS-2423 cloth.

**3.12** When replacing plunger assembly, the phenolfiber washer must be placed on the plunger stem prior to the plunger bracket (Fig. 9).

#### Friction Pads

**3.13** Friction pads should be attached to the bases of all dial-equipped hand telephone set mountings and all manual hand telephone set mountings equipped with spring cords (Fig. 2).

TABLE A

CODED COMPONENTS		DESK-TYPE HAND TELEPHONE SETS					
		202 A	202 B, C, D	203 A, B, C	203 D, E, F	215 A	215 B, C, D
Handset Mounting	D1-3	•	•				
	D6-3			•	•		
	D8-3					•	•
Apparatus Blank	50J-3	•					
	94A-3	*					
Dial	5H Type		•	•	•		•
	6A		*	*	*		*
Handset	F1G-3	•	•	•	•	•	•

\*When more than one code of apparatus or piece part is listed as suitable for replacement purposes in Table A and local stock on any of these is not available, order that part which has the asterisk.

Note: Hand telephone sets having F-type handsets are coded with the letter F after the color designation number, as for example, 202A-3F. Sets having a handset with a spring cord have the letter R included in the code, as for example, 202AR-3F.

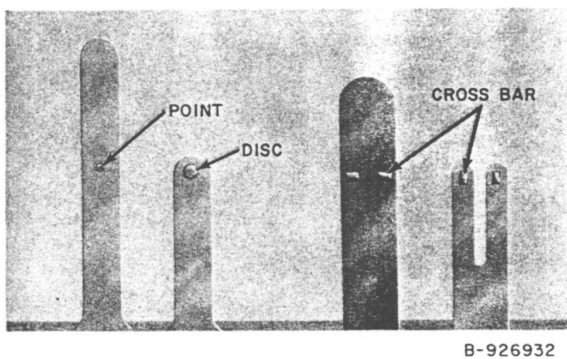


Fig. 5—Point, Disc, and Crossbar Contacts

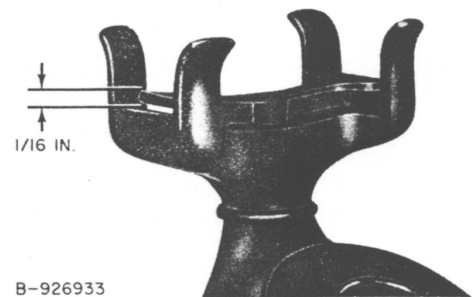


Fig. 6—Types A, B, D, and E Mounting Margin

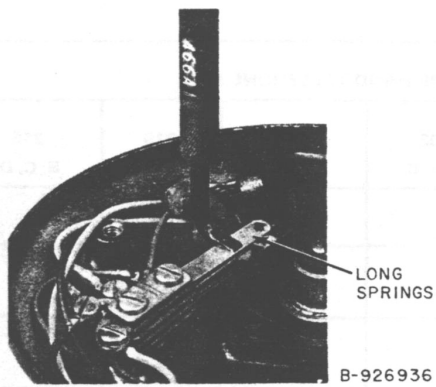


Fig. 7—Long Spring Contact Adjustment

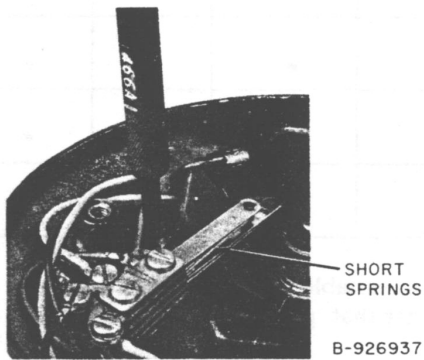


Fig. 8—Short Spring Contact Adjustment

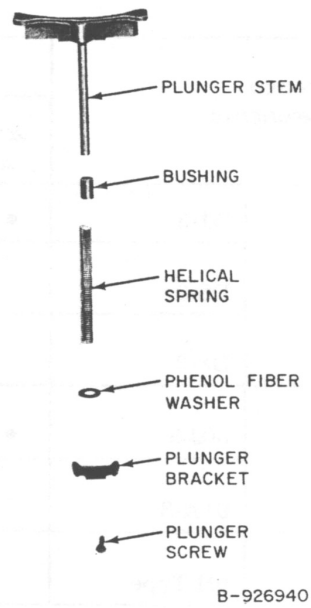


Fig. 9—Plunger Assembly