

## **REFERENCE**

### **201A, B, C, D; 211A, B, C, D; 212A, B, C; 213A, B, C, E**

## **HAND TELEPHONE SETS**

### **1. GENERAL**

**1.01** This section contains identification and maintenance information on 200 series hang-up type hand telephone sets. All these sets are now MD. This information was formerly found in Sections 502-300-100 and 502-300-300 which are hereby canceled.

**1.02** Information on the 200 series desk-type hand telephone sets can now be found in Reference Section 502-301-102.

### **2. IDENTIFICATION**

**2.01** The 200 series hang-up type hand telephone sets, manual and dial models (Fig. 1, 2, 3, and 4) consists of the coded components listed in Table A.

**2.02** They are used with either induction coil or network-type subscriber sets in manual or dial areas, and also with magneto-type subscriber sets. Refer to appropriate connection section in Division 502 for all classes of service.

#### **Assemble of Parts**

**2.03** The hang-up hand telephone sets utilize the C- and G-type handset mountings.

**2.04** The C-type handset mounting (Fig. 5 and 6) provides rotating adjustment to position the dial with respect to the user, while the G-type, (Fig. 7, 8, and 9) provides both rotating and tilting adjustments for positioning the dial.

**2.05** The handset mounting bracket for both mountings allows them to be attached at various lengths from the desk top overhang and allows the G-type mounting handset to be hung from either the front or side of the mounting.

**2.06** The C-type mounting is used with 201-type hand telephone set and the G-type with 211, 212, and 213-type.

#### **61M Filter**

**2.07** When required, a 61M filter (ordered separately) may be installed to suppress R.F. interference in these sets. See Fig. 10 and 11 for mounting filter in C-type mounting and Fig. 12 for G-type.

*Note:* Before installing 61M filter in G-type mounting, remove the helical spring (Fig. 13) before extracting the switchhook pin.

### **3. MAINTENANCE**

**3.01** Maintenance should be limited to the replacement of items listed in Table A and to cleaning, adjusting, and aligning of contacts.

**3.02** To clean contacts, burnish with the 265C tool using a clean blade (Fig. 14).

**3.03** 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.

**3.04** On G-type mountings the operating stud shall not touch the operating springs when the line switch is in its extreme upward position (Fig. 15).

**3.05** To align point and disc contacts (Fig. 16) the point shall fall wholly within the circumference of the opposing contact disc and crossbar contacts within the width of the contact surface.

**3.06** The switchhook shall move freely without binding or squeaking. Binding of switchhook

TABLE A  
COMPONENT PARTS

CODED COMPONENTS		TELEPHONE SETS						
		201 A	201 B, C, D	211 A	211 B, C, D	212 A, B, C	213 A, B, C	213 E
Handset Mounting	C1-3	•	•					
	G1-3			•	•			
	G2-3					•		
	G3-3						•	•
Dial Mounting	39-A-3		•					
	41-A				•	•	•	
	43-A				*	*	*	
Dial	5H Type		•		•	•	•	
	6A		*		*	*	*	
Handset	F1G-3	•	•	•	•	•	•	•

\* Alternate replacement.

may be caused by either a bent switchhook or bent pin. If trouble occurs, replace set.

**3.07** Squeaks may be caused by a dirty pin. Remove pin and clean it and bearing holes with KS-2423 or equivalent cloth moistened with KS-7860 petroleum spirits (Fig. 17).

**3.08** Replace helical spring if improper tension is causing faulty operation of set.



Fig. 1—Manual Hang-up C-Type Set



Fig. 2—Dial Hang-up C-Type Set

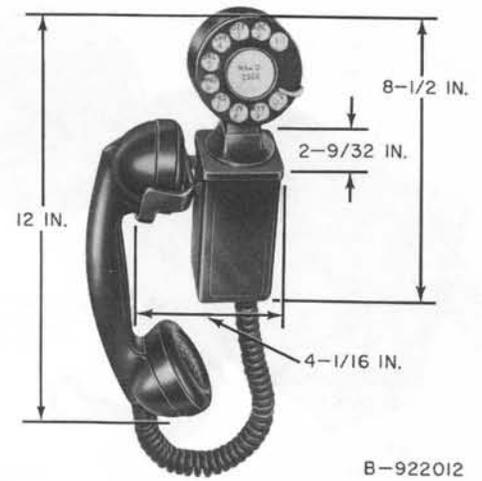


Fig. 4—Dial Hang-up G-Type Set

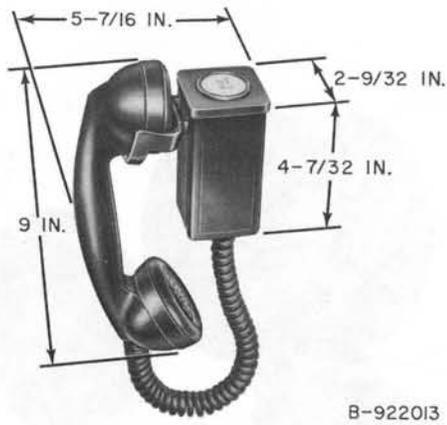
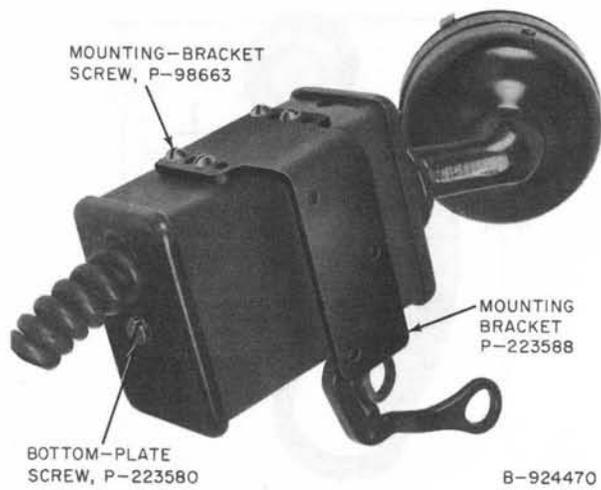


Fig. 3—Manual Hang-up G-Type Set

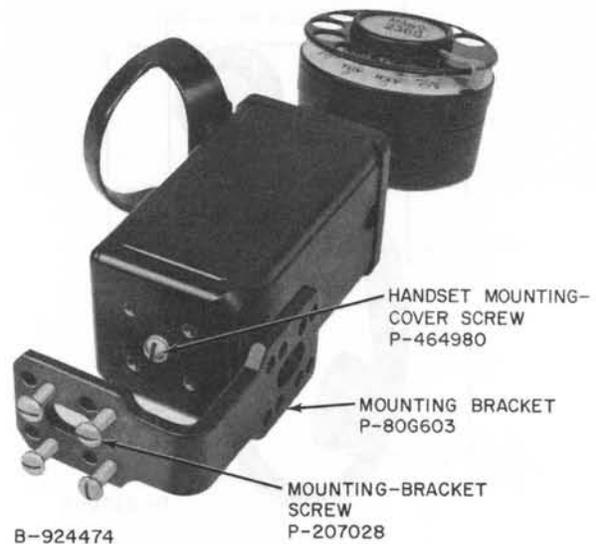


Fig. 5—Assembly of 39A Dial Mounting on C-Type Handset Mounting



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**Fig. 6—Assembly of C-Type Handset Mounting and Bracket**



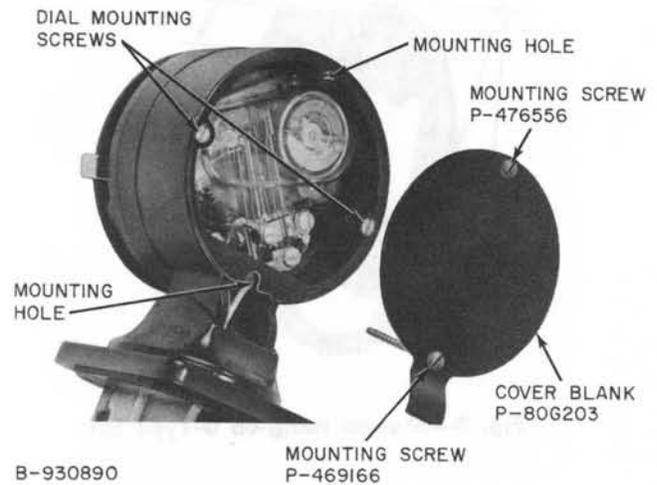
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**Fig. 8—Assembly of G-Type Handset Mounting and Bracket**



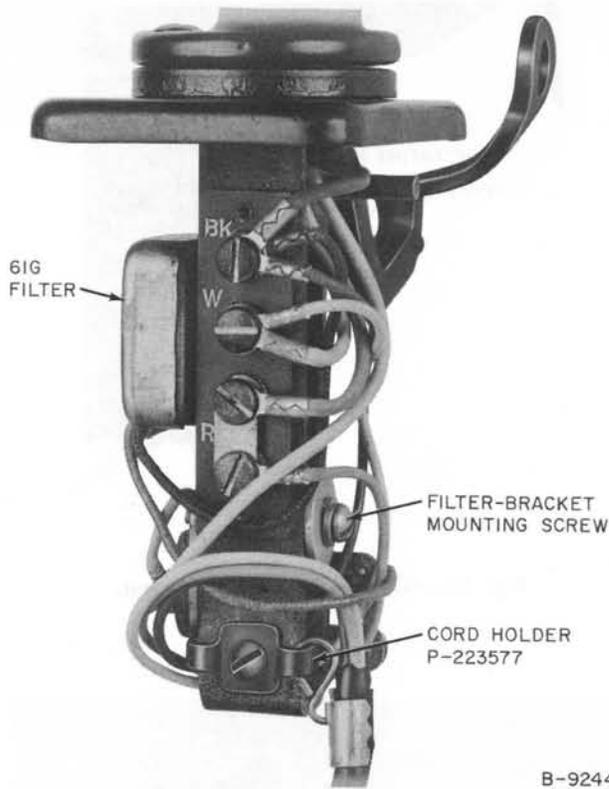
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**Fig. 7—Assembly of 43A Dial Mounting on G-Type Handset Mounting**



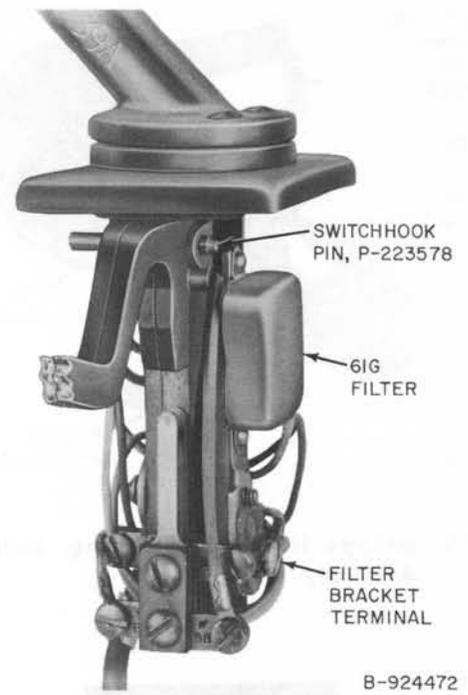
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**Fig. 9—G-Type Handset Mounting, Rear View**



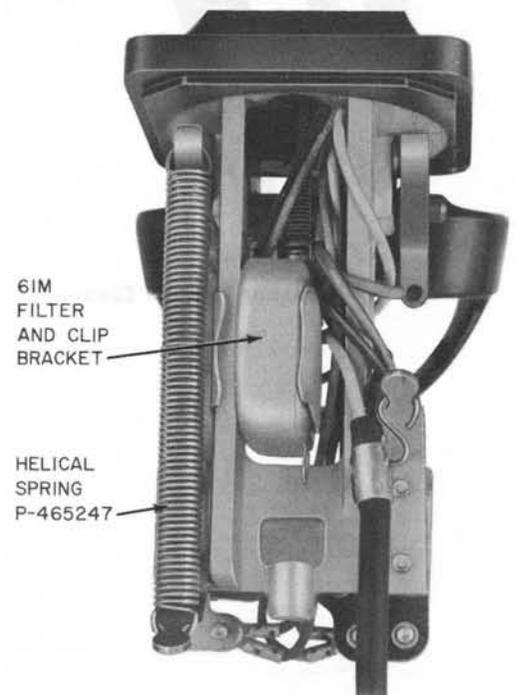
**Fig. 10—Assembly of Filter on C-Type Handset Mounting**

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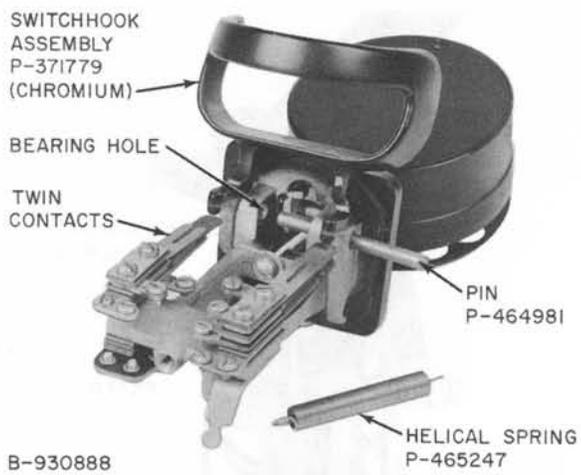
**Fig. 11—Assembly of Switchhook on C-Type Handset Mounting**

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**Fig. 12—Assembly of Filter on G-Type Handset Mounting**

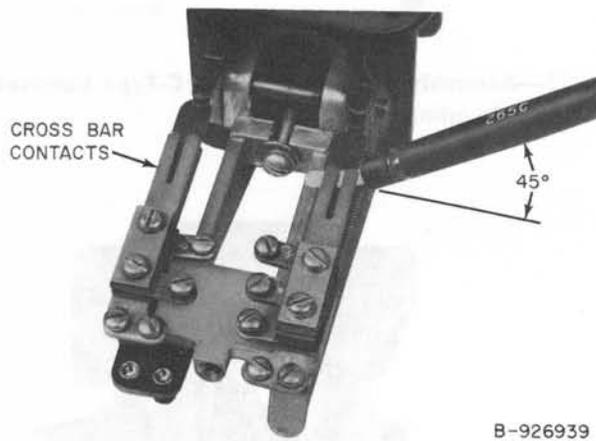
**SECTION 502-301-100**



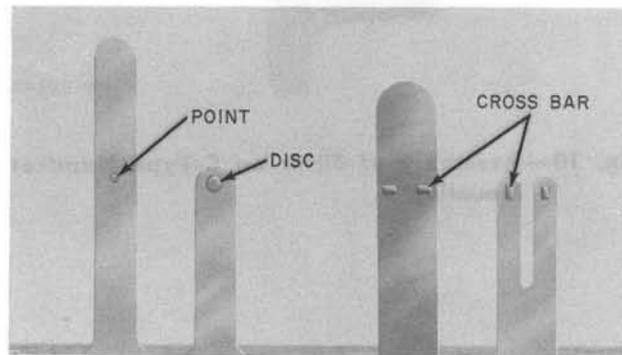
**Fig. 13—G-Type Handset Mounting, Switchhook Assembly**



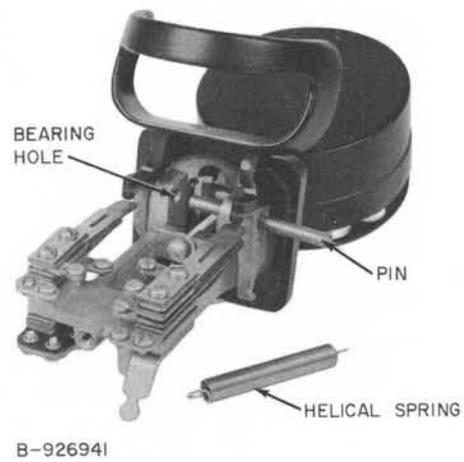
**Fig. 15—G-Type Mounting Margin**



**Fig. 14—Crossbar Contact Cleaning**



**Fig. 16—Point and Disc and Crossbar Contacts**



**Fig. 17—Switchhook Assembly**