

**BELL SYSTEM PRACTICES**  
**Station Installation and Maintenance**

**SECTION C55.803**  
**Issue 1, 6-28-32**  
**Standard**

## **RADIO FREQUENCY SUPPRESSION APPARATUS**

### **61-B, C, D, E, F, G, H AND J FILTERS INSTALLATION AND MAINTENANCE**

#### **1. GENERAL**

1.01 This section covers the installation (locating and mounting) of and connections for the 61-B, 61-C, 61-D, 61-E, 61-F, 61-G, 61-H and 61-J filters when such filters are installed in dial desk stands, hand set mountings, subscriber sets (with dials or buzzers) and coin collectors.

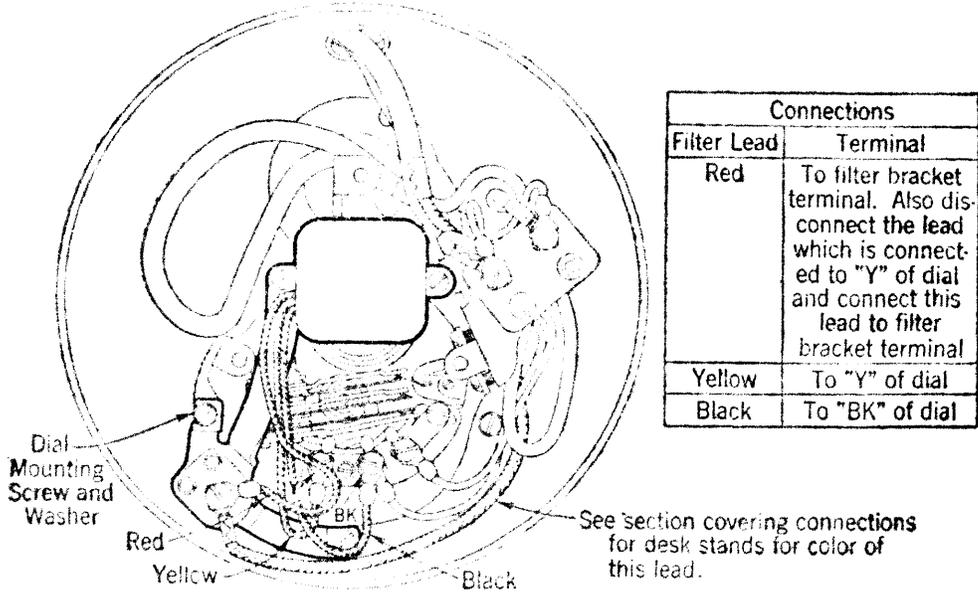
#### **2. INSTALLATION AND CONNECTIONS**

2.01 It is not necessary when installing 61 type filters to twist the filter leads at least four turns as is the case with the older types of suppression apparatus. It is necessary for purposes of identification, however, to apply a red dot to apparatus in service when filters are added. A method for applying the red dot is outlined in the section entitled "Radio Frequency Suppression Apparatus—Dial Stations."

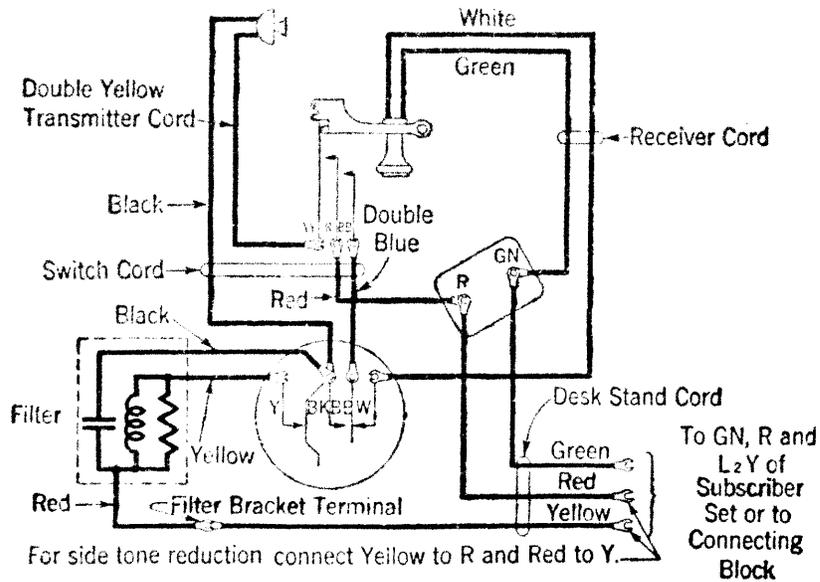
2.02 With the exception of the 61-E filter (where used in 634-BH subscriber sets) and the 61-G filter, filter brackets are arranged for insertion under existing screws or nuts and, therefore, do not require additional mounting screws.

2.03 Figures, showing the location at which to mount filters in the various pieces of apparatus, are arranged according to types of filters. In these figures the free conductors of cords are shown cut away to expose bracket mounting screws of nuts and the filters are shown in bold outline.

**61-B FILTER**  
(50, 51, 52, 151 and 152 Type Desk Stands)

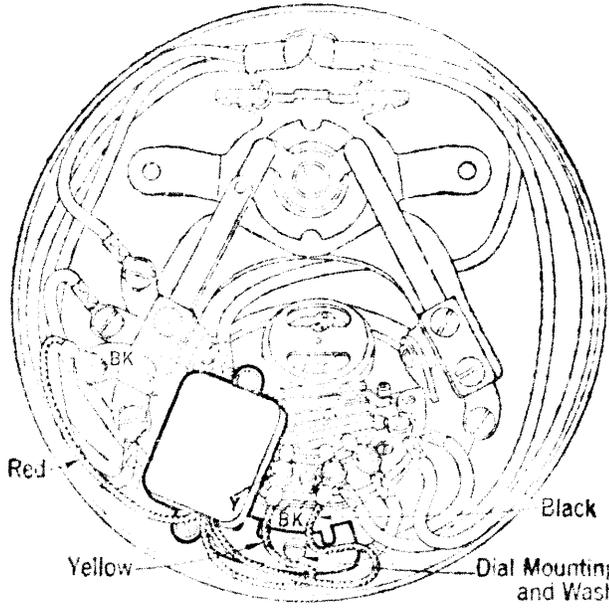


TYPICAL ILLUSTRATION OF FILTER CONNECTIONS  
SHOWING CONNECTIONS FOR 51-AL DESK STAND



**Fig. 1.**

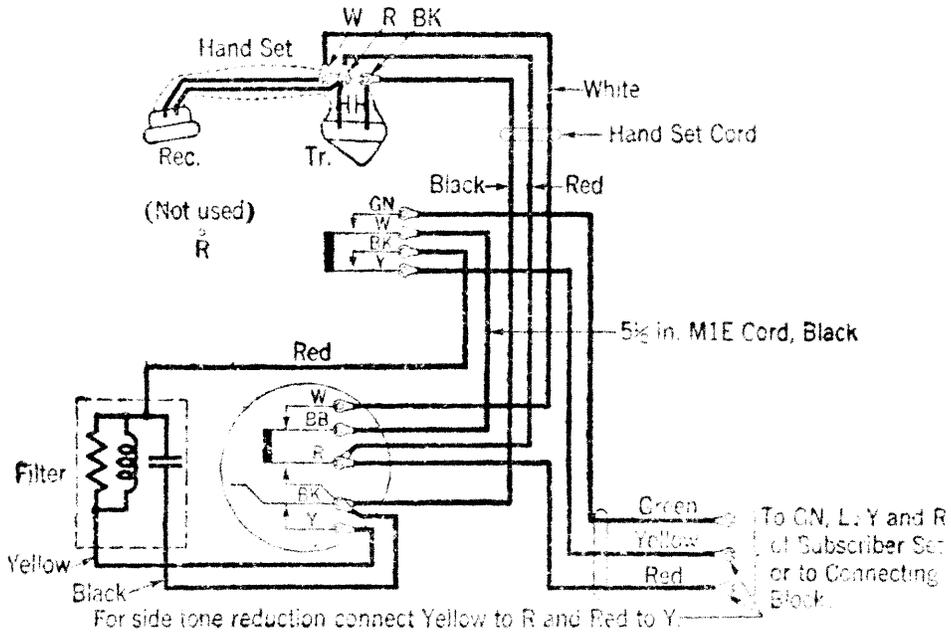
**61-C FILTER**  
(B Type Hand Set Mountings)



Connections	
Filter Lead	Terminal
Red	To "BK" of switchhook
Yellow	To "Y" of dial
Black	To "BK" of dial

Note: Omit MIE cord from "Y" of dial to "BK" of switchhook.

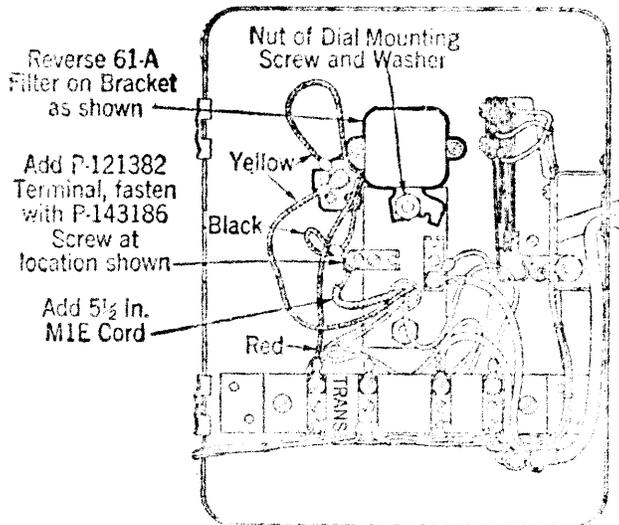
**TYPICAL ILLUSTRATION OF FILTER CONNECTIONS**  
**SHOWING CONNECTIONS FOR BI TYPE HAND SET MOUNTING**



**Fig. 2.**

### 61 - D FILTER

(Converted 293, 333 and 433 Type Subscriber Sets)



Connections	
Filter Lead	Terminal
Yellow	To filter bracket terminal. Also connect yellow lead of dial cable to terminal on filter bracket.
Red	To left - hand "Trans" terminal
Black	To added terminal on block. Also connect MIE cord between added terminal on block and "BK" on dial.

TYPICAL ILLUSTRATION OF FILTER CONNECTIONS  
SHOWING CONNECTIONS FOR CONVERTED 333-B SUBSCRIBER SET

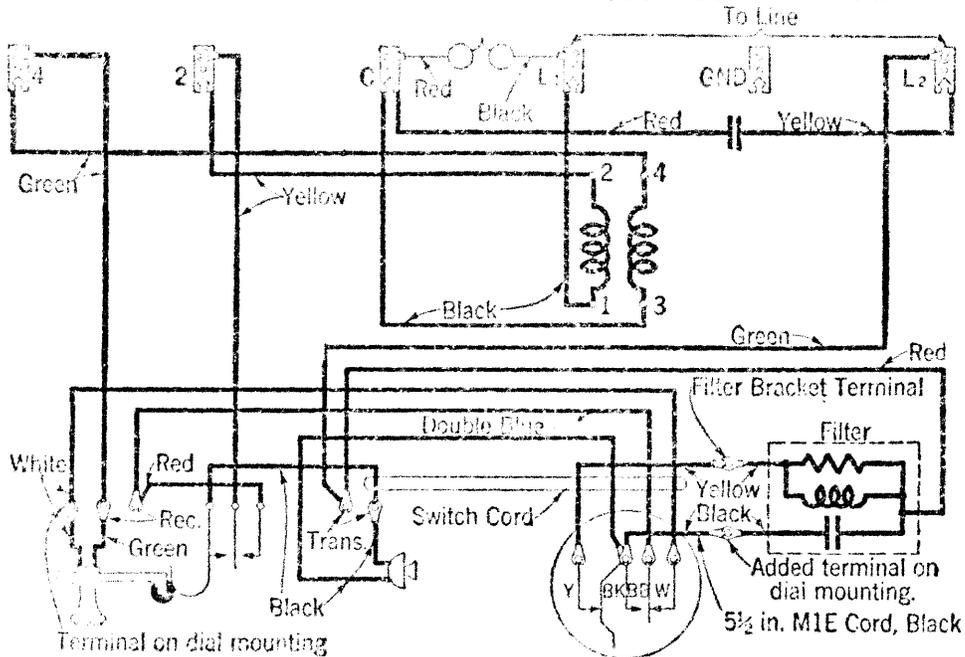
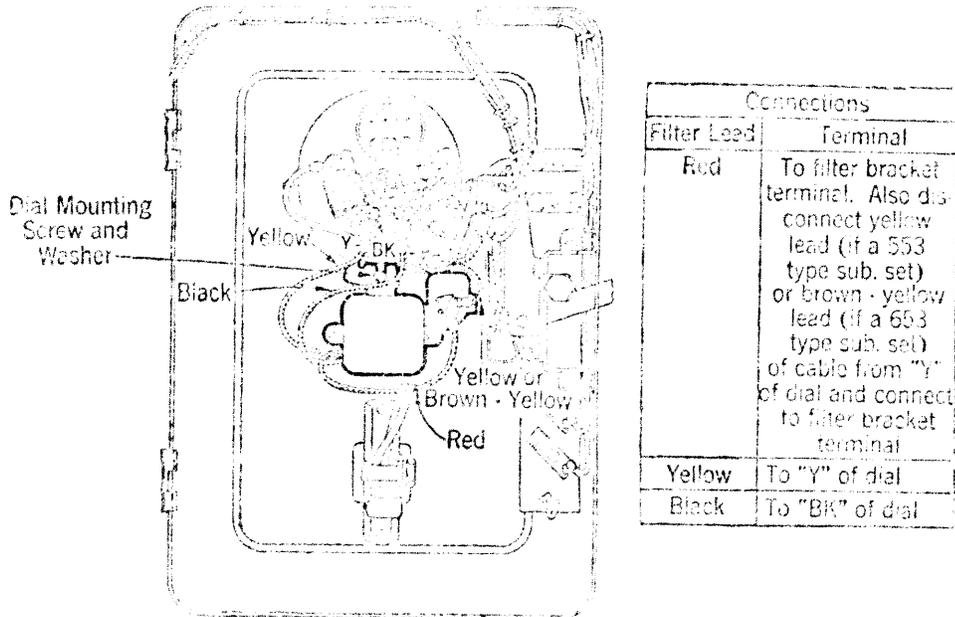


Fig. 3.

### 61-D FILTER

(553 and 653, excluding 653-BH, Subscriber Sets)



TYPICAL ILLUSTRATION OF FILTER CONNECTIONS  
SHOWING CONNECTIONS FOR 553-A SUBSCRIBER SET  
To Line

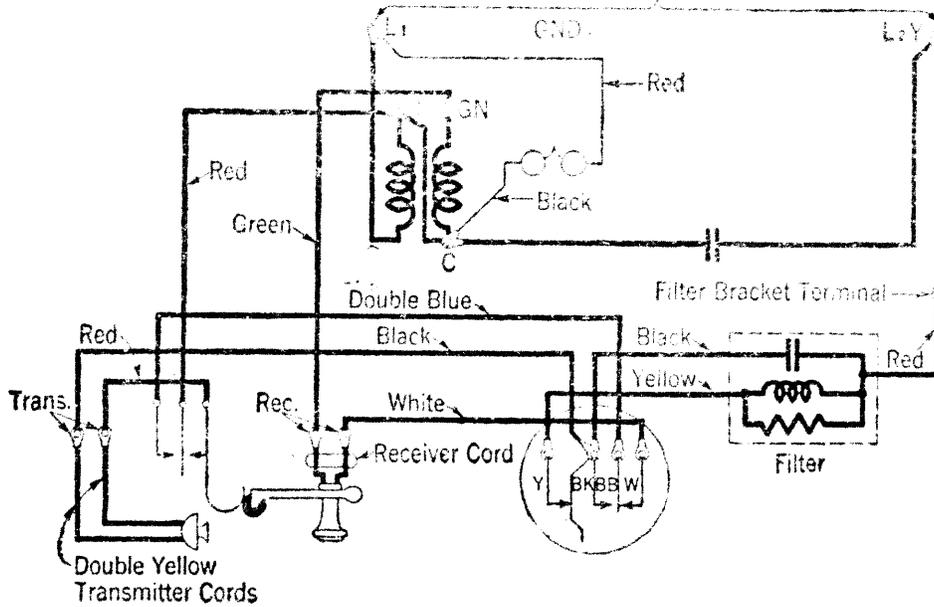
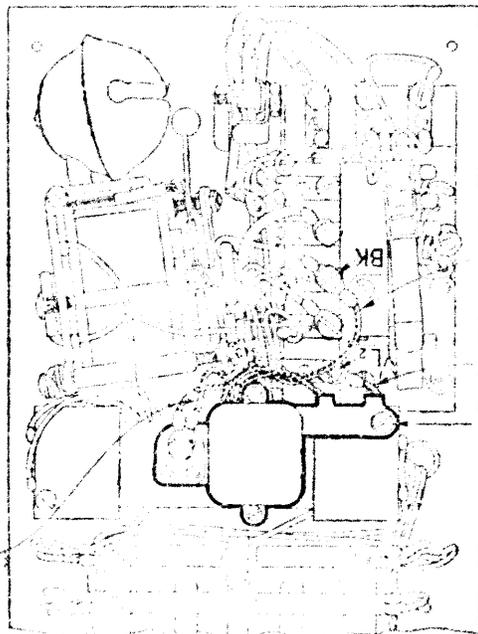


Fig. 4.

61-E FILTER

(574 and 577 Type Subscriber Sets and Converted 374 and 377 Type Subscriber Sets)

Connections	
Filter Lead	To filter bracket terminal
Yellow	To filter bracket terminal. Also disconnect yellow dial lead of cable from "YL2", open one stitch of dial cable and connect yellow lead to filter bracket terminal
Red	To "YL2" terminal
Black	To "BK" terminal



TYPICAL ILLUSTRATION OF FILTER CONNECTIONS  
SHOWING CONNECTIONS FOR 574-A SUBSCRIBER SET

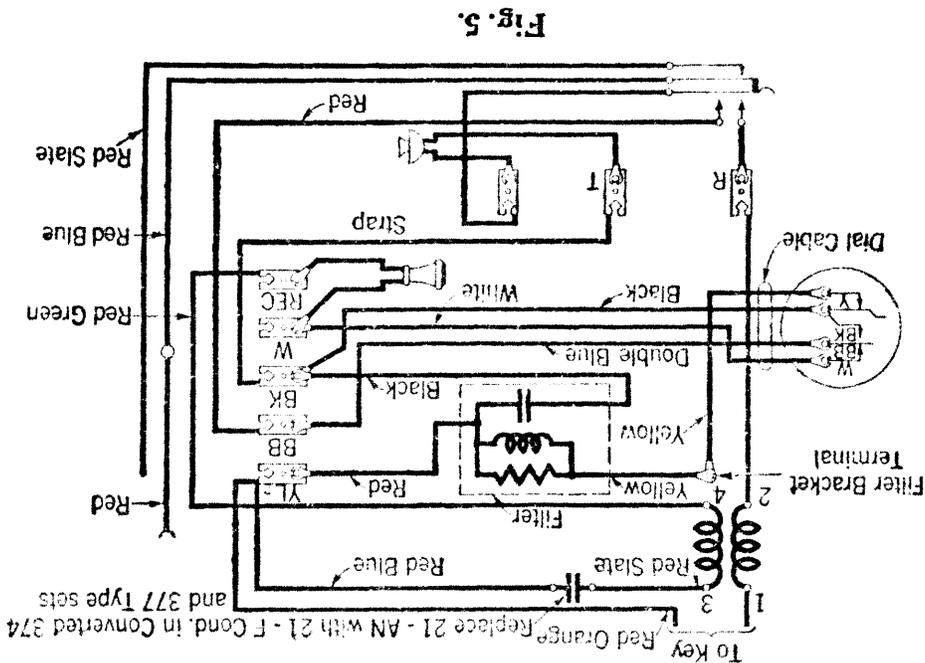
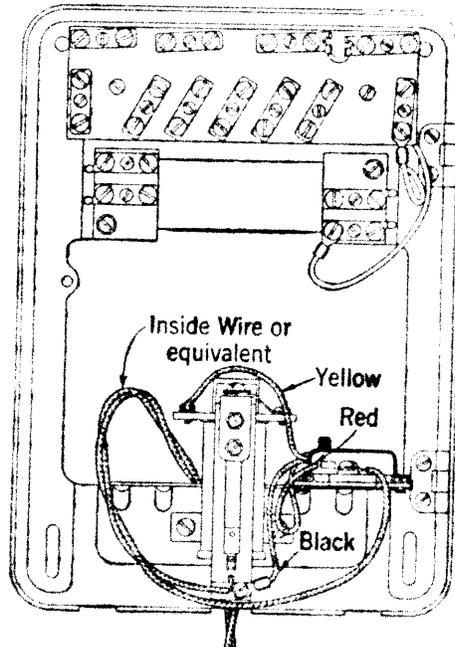


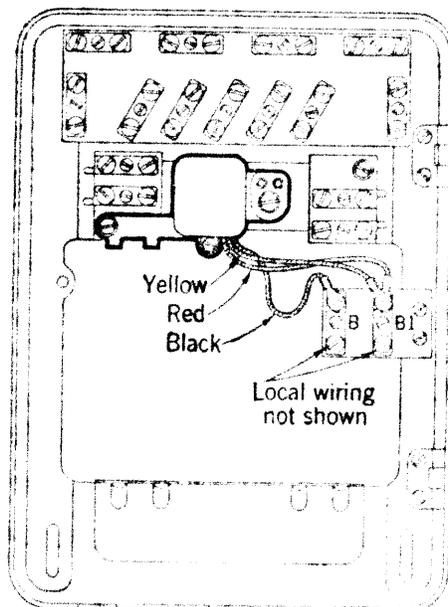
Fig. 5.

**61-E FILTER**  
(634 BH Subscriber Set)



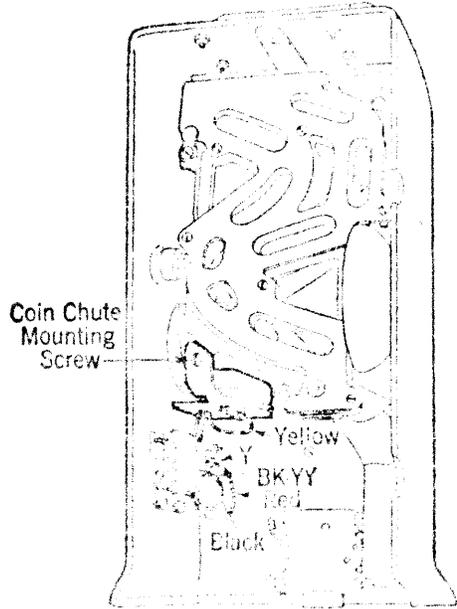
**Fig. 6.**

**61-E FILTER**  
(653 BH Subscriber Set)



**Fig. 7.**

**61-F FILTER**  
(50 and 150 Type Coin Collectors)



Connections	
Filter Lead	Terminal
Yellow	To filter bracket terminal. Also disconnect yellow lead of switch cord from "Y" of upper housing and connect to filter bracket terminal.
Red	To "Y" of upper housing
Black	To "BK - YY" of upper housing

TYPICAL ILLUSTRATION OF FILTER CONNECTIONS  
SHOWING CONNECTIONS FOR 50-G COIN COLLECTOR

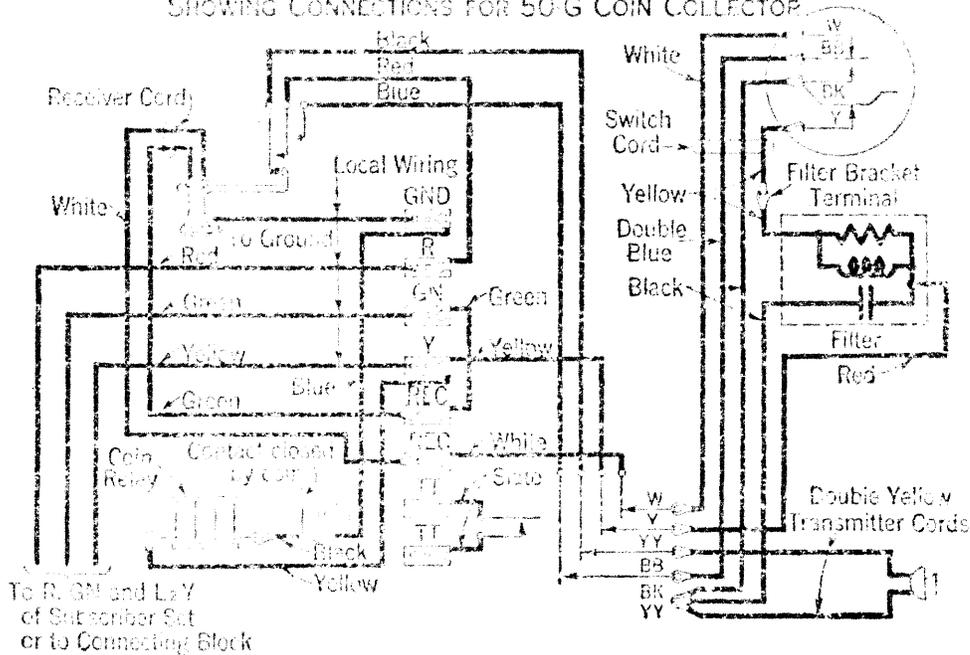
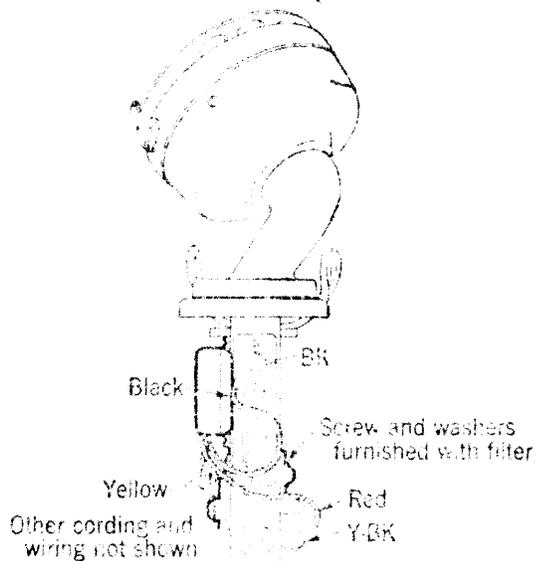


Fig. 8.

**61 - G FILTER**  
(C1 Hand Set Mountings)



Connections	
Filter Lead	Terminal
Yellow	To filter bracket terminal. Also do connect yellow lead of switch cord from "Y - BK" of switchhook and connect to filter bracket terminal
Red	To "Y - BK" of switchhook
Black	To "BK" of terminal block

TYPICAL ILLUSTRATION OF FILTER CONNECTIONS  
SHOWING CONNECTIONS FOR 101B, 101C OR 101D TYPE HAND TELEPHONE SET  
(C1 HAND SET MOUNTING)

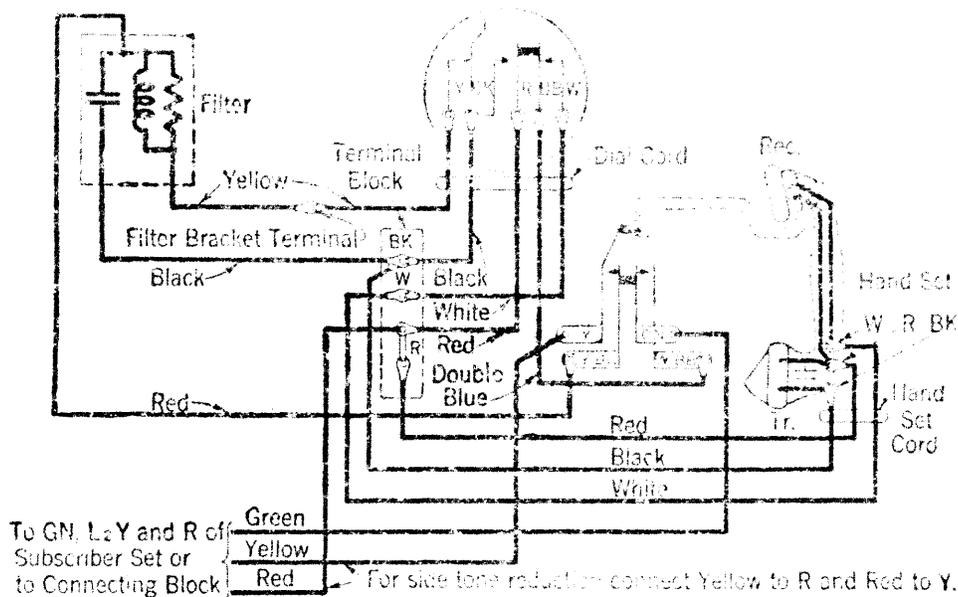
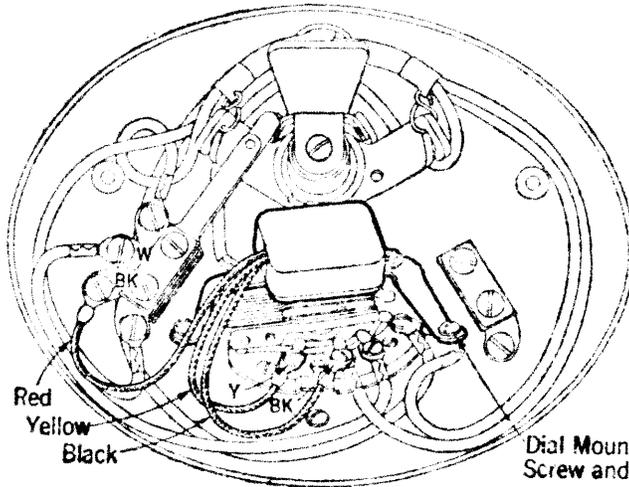


Fig. 9.

**61-H FILTER**  
(D Type Hand Set Mountings)



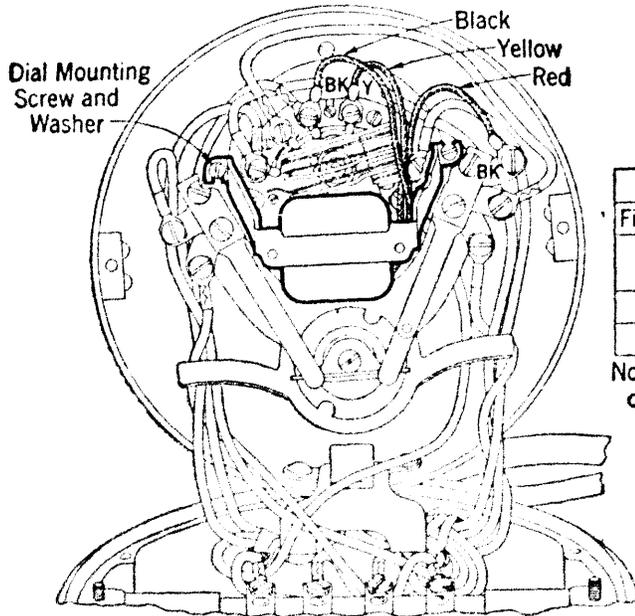
Connections	
Filter Lead	Terminal
Red	To "BK" (if mounting is arranged for common battery talking) or "W" (if mounting is arranged for local battery talking, common battery signaling) of switchhook
Yellow	To "Y" of dial
Black	To "BK" of dial

Note: Omit MIE cord from "Y" of dial to "BK" of switchhook

**Fig. 10.**

Note: Typical connections for filters in D type hand set mountings are the same as shown in Fig. 2.

**61-J FILTER**  
(E Type Hand Set Mountings)



Connections	
Filter Lead	Terminal
Red	To "BK" of switchhook
Yellow	To "Y" of dial
Black	To "BK" of dial

Note: Omit MIE cord from "Y" of dial to "BK" of switchhook.

**TYPICAL ILLUSTRATION OF FILTER CONNECTIONS**  
SHOWING CONNECTIONS FOR 105 TYPE HAND TELEPHONE SET  
(E4 HAND SET MOUNTING)

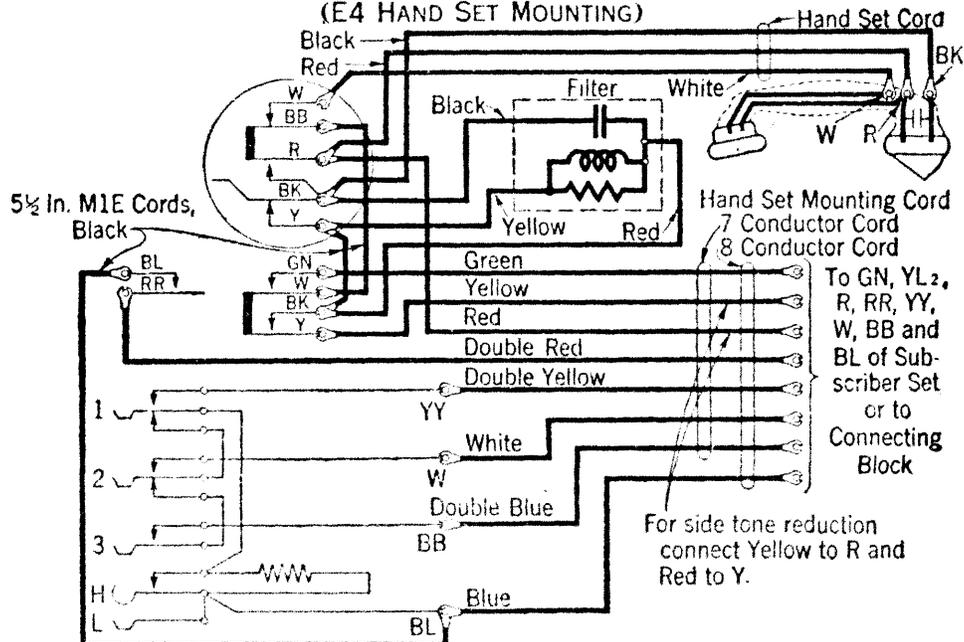


Fig. 11.

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**61-B, C, D, E, F, G, H AND J FILTERS**  
**INSTALLATION AND MAINTENANCE**