

## 61-TYPE FILTERS

### INSTALLATION AND MAINTENANCE

#### 1. GENERAL

**1.01** This section covers the installation (locating and mounting) of and connections for the 61-type filters when such filters are installed in desk stands, handset mountings, telephone sets, subscriber sets (with dials or buzzers), and coin collectors.

#### 2. INSTALLATION

**2.01** The filter connections shown in the figures of this section are only for the typical examples shown. Connect filters as specified in the connections sections for the particular apparatus involved. These figures illustrate the No. 5-type dials with the exception of Fig. 9 which illustrates the No. 6-type dial.

**2.02** It is not necessary when installing 61-type filters to twist the filter leads at least four turns as is the case with older types of suppression apparatus. For purposes of identification, apparatus equipped with filters have a red dot located as indicated in Table A.

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

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

**2.05** The 61N filter replaces the 61C filter for use in the B-type hand set mountings, as well as the 61H filter for use in D-type hand set mountings. The new filter is attached in either type mounting by securing the bracket under the right and left dial mounting screws over the washers. Where furnished, 61C filters may, of course, be used with B-type mountings, and the

61H filters may be used with D-type mountings. The new filter is connected in the same manner as the filter it replaced. Where No. 6-type dials are used in B- or D-type mountings, the dust cover may be eliminated when mounting the filters.

**2.06** Where filters are mounted over No. 4- or No. 5-type dials, filter assemblies using screws or eyelets may be used interchangeably. Where filters are mounted over No. 6-type dials, filter assemblies using eyelets must be used.

TABLE A  
RED DOT LOCATIONS

Apparatus	Red Dot Located
Coin Collectors	On back of coin gauge
Desk Stands	Underneath switchhook close to handle
Hand Set Mountings (B, D, and E Types)	Underneath plunger on right end
Hand Set Mountings (C Type)	Underneath switchhook close to housing
Hand Set Mountings (G Type)	Near top on outside of mounting case, midway between switchhook slots
Telephone Set Mountings (H, J, K, L, and similar Types)	Underneath hand grip centrally located
Wall Sets	No red dot required, except as noted below for telephone sets
Telephone Sets (300 and 325 Types)	Underside of hand set supporting hook, close to inner door
Telephone Sets (320 Type)	On edge of front cover-plate directly below bottom mounting screw
(5300 and 5400 Series)	Under left dial mounting screw as viewed from underside of housing
Sets in No. 1 Residence Systems Only	Underneath switchhook close to cover

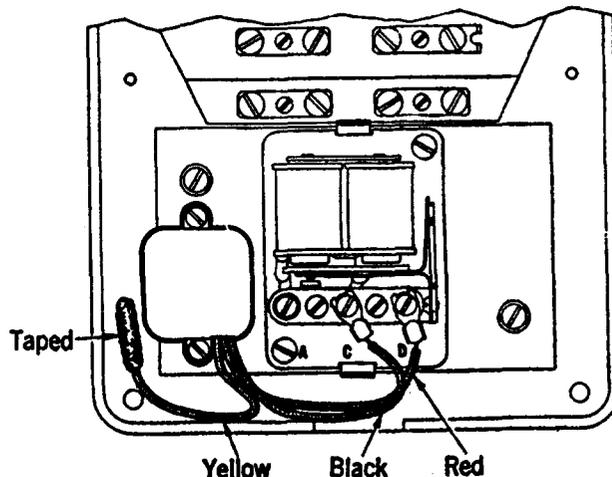
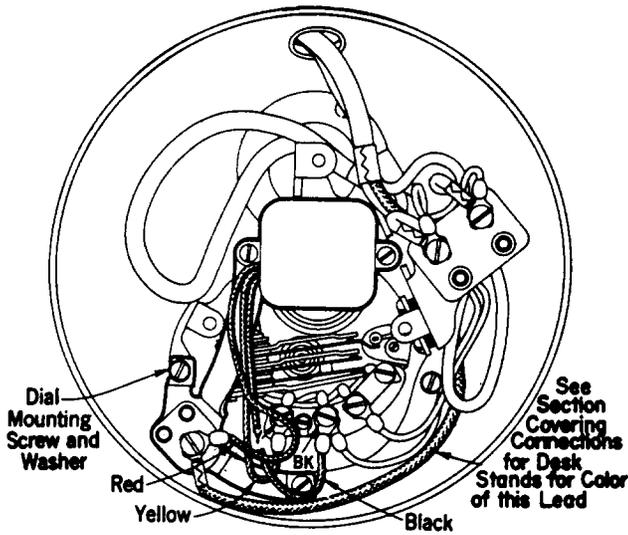


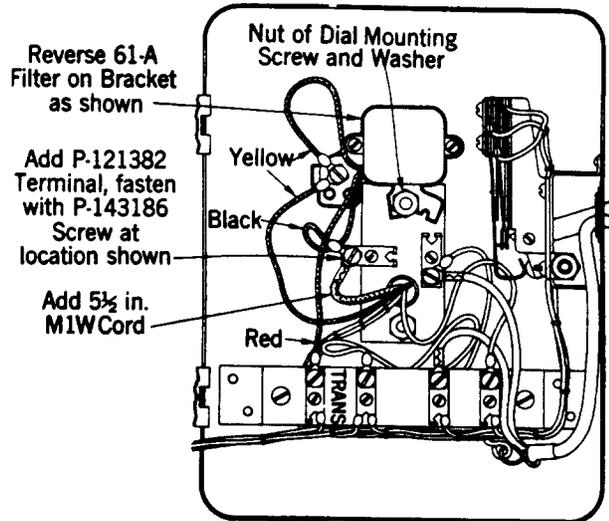
Fig. 1 — 61A Filter Shown in 634BH Subscriber Set



**Connections**

Filter Lead	Terminal
Red	To filter bracket terminal. Also disconnect the lead which is connected to Y of dial and connect this lead to filter bracket terminal.
Yellow	To Y of dial.
Black	To BK of dial.

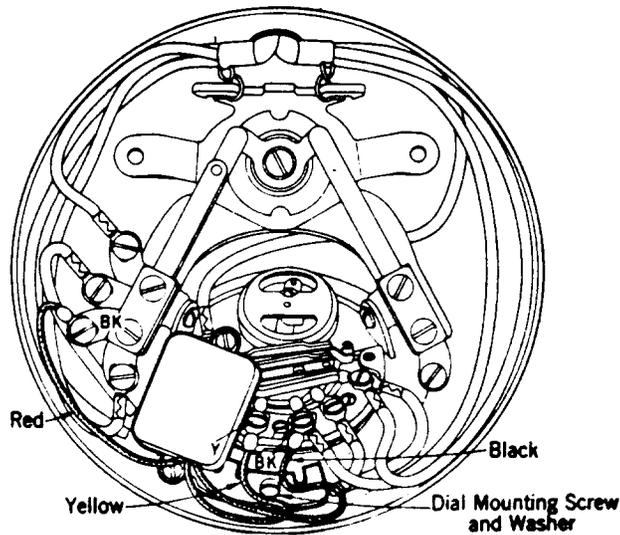
**Fig. 2 — 61B Filter Shown in 51-Type Desk Stand**



**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. To added terminal on block. Also connect M1W cord between added terminal on block and BK on dial.
Black	

**Fig. 4 — 61D Filter Shown in Converted 333B Subscriber Set**

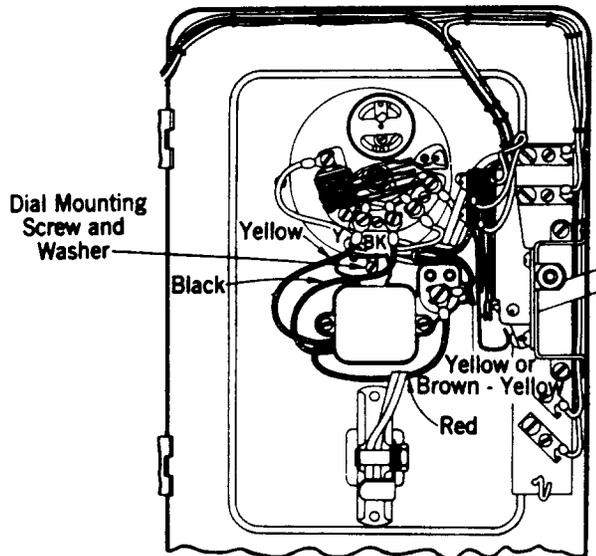


**Connections**

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

Note: Omit M1W cord from Y of dial to BK of switchhook.

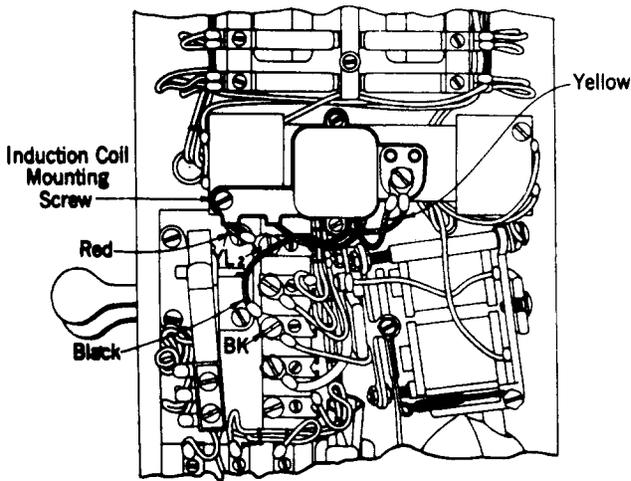
**Fig. 3 — 61C Filter Shown in B-Type Hand Set Mounting**



**Connections**

Filter Lead	Terminal
Red	To filter bracket terminal. Also disconnect yellow lead (if a 553-type sub. set) or brown-yellow lead (if a 653-type sub. set) of cable from Y of dial and connect to filter bracket terminal.
Yellow	To Y of dial.
Black	To BK of dial.

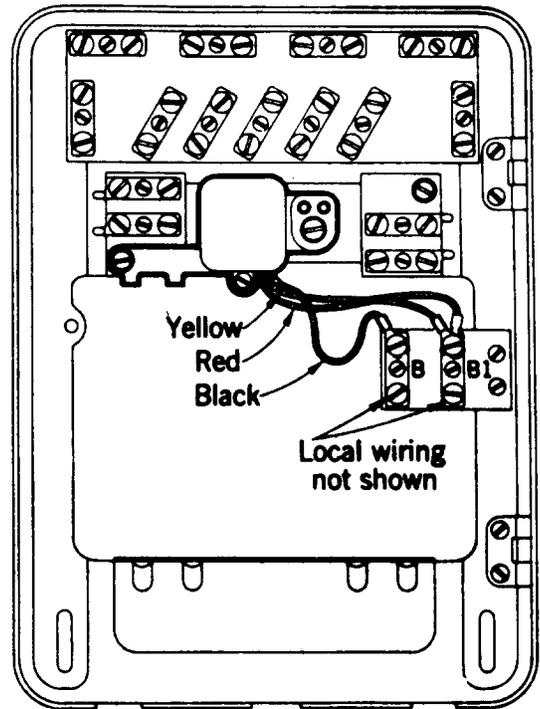
**Fig. 5 — 61D Filter Shown in 553-Type Subscriber Set**



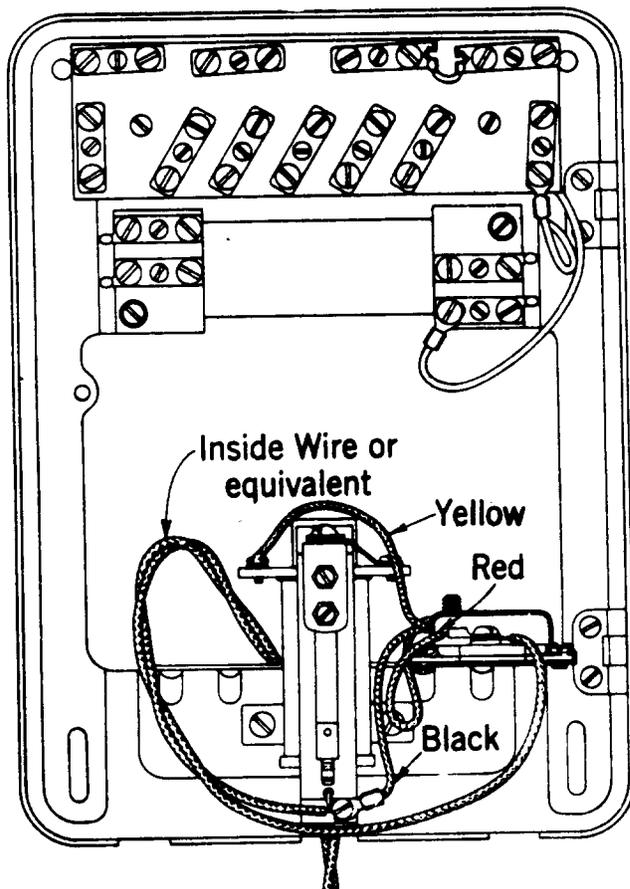
**Connections**

<u>Filter Lead</u>	<u>Terminal</u>
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.
Black	To BK.

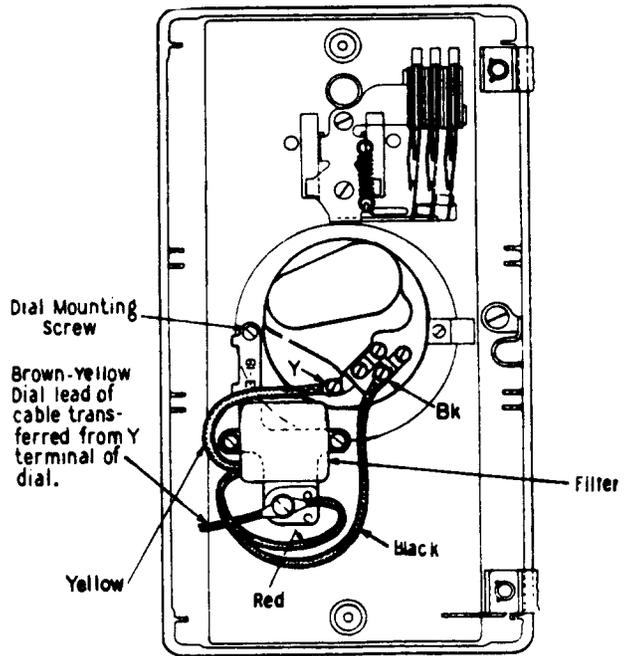
**Fig. 6 – 61E Filter Shown in 574-Type Subscriber Set**



**Fig. 8 – 61E Filter Shown in 653BH Subscriber Set**



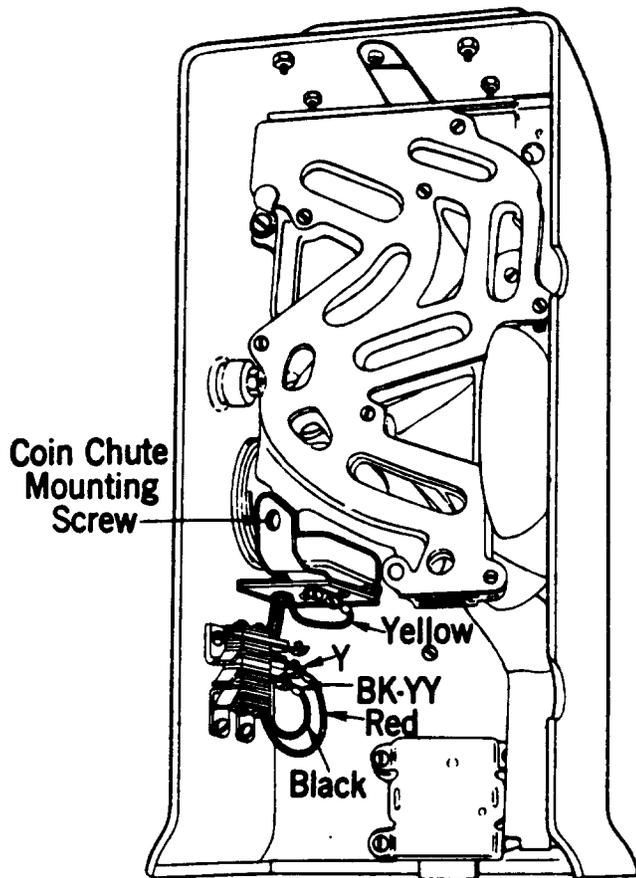
**Fig. 7 – 61E Filter Shown in 634BH Subscriber Set**



**Connections**

<u>Filter Lead</u>	<u>Terminal</u>
Yellow	Transfer brown-yellow switchhook lead from Y of dial to filter bracket terminal. Connect yellow filter lead to Y of dial.
Red	To filter bracket terminal.
Black	To BK of dial.

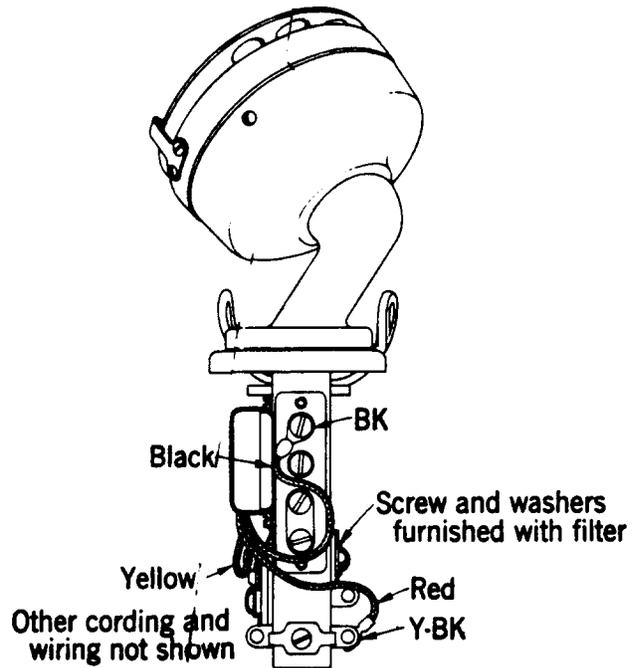
**Fig. 9 – 61E Filter Shown in M-Type Telephone Set Mounting**



**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.

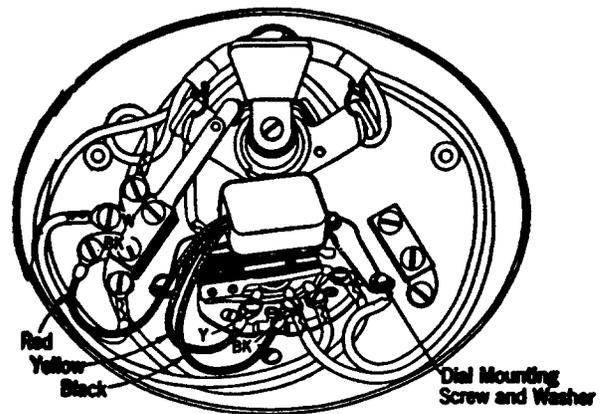
**Fig. 10 - 61F Filter Shown in 50-Type Coin Collector**



**Connections**

Filter Lead	Terminal
Yellow	To filter bracket terminal. Also disconnect 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.

**Fig. 11 - 61G Filter Shown in C1 Hand Set Mounting**

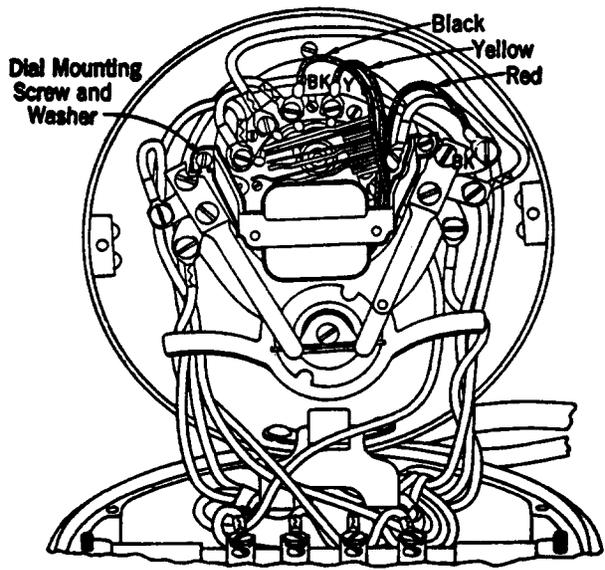


**Connections**

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 M1W cord from Y of dial to BK of switchhook

**Fig. 12 - 61H Filter Shown in D-Type Hand Set Mounting**

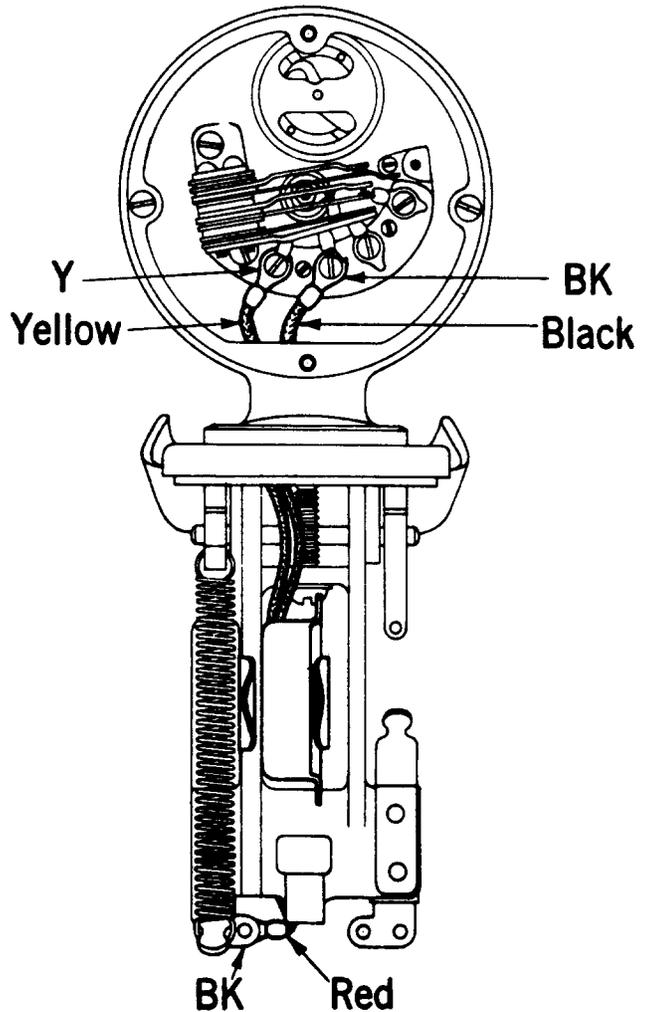


**Connections**

<u>Filter Lead</u>	<u>Terminal</u>
Red	To BK of switchhook.
Yellow	To Y of dial.
Black	To BK of dial.

Note: Omit M1W cord from Y of dial to BK of switchhook.

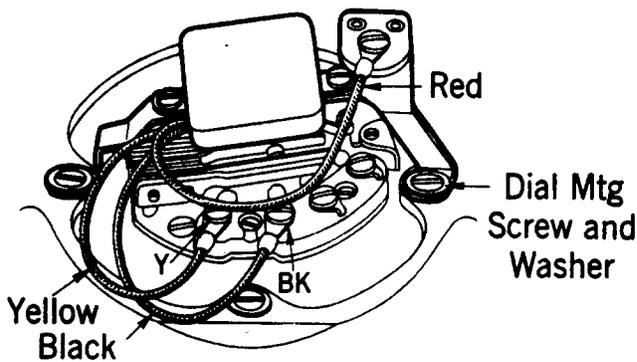
**Fig. 13 – 61J Filter Shown in E-Type Hand Set Mounting**



**Connections**

<u>Filter Lead</u>	<u>Terminal</u>
Yellow	Transfer brown-yellow switchhook lead from Y of dial to filter bracket terminal. Connect yellow filter lead to Y of dial.
Red	To filter bracket terminal.
Black	To BK of dial.

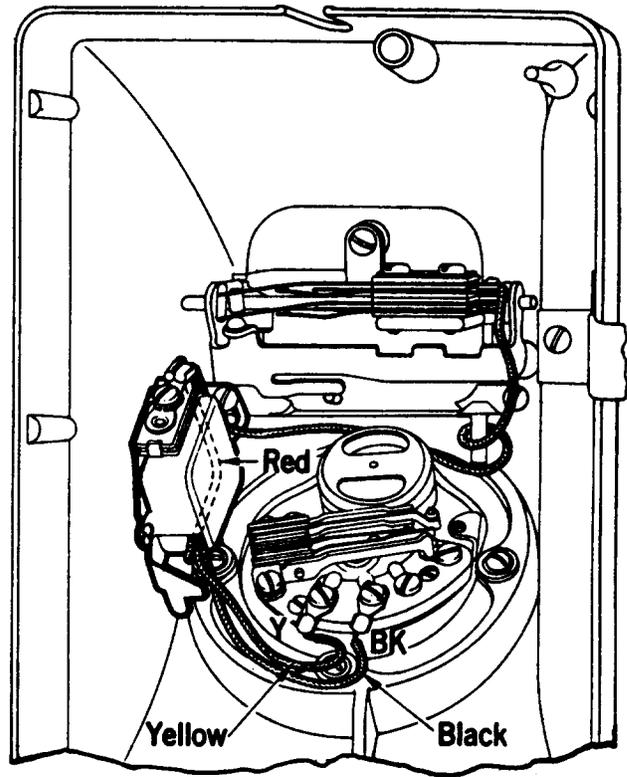
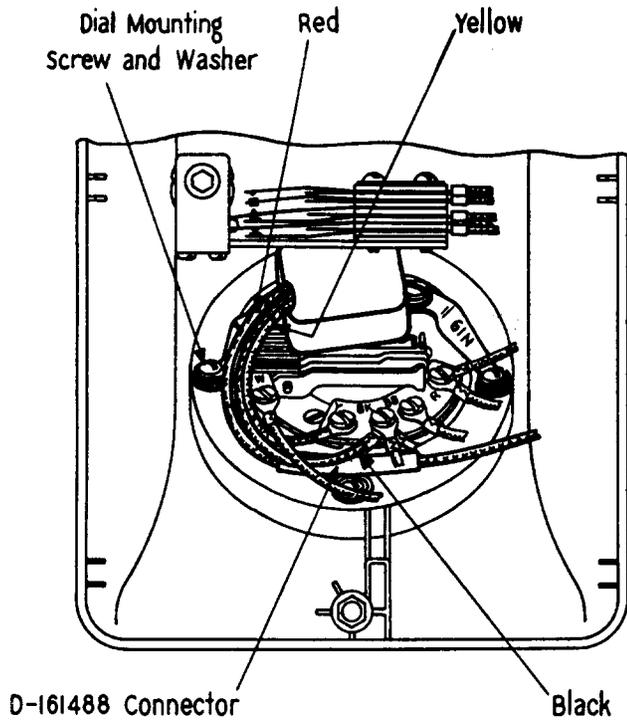
**Fig. 15 – 61M Filter Shown in G-Type Hand Set Mounting**



**Connections**

<u>Filter Lead</u>	<u>Terminal</u>
Yellow	Transfer brown-yellow switchhook lead from Y of dial to filter bracket terminal. Connect yellow filter lead to Y of dial.
Red	To filter bracket terminal.
Black	To BK of dial.

**Fig. 14 – 61L Filter Shown in 300-Type Telephone Set**



**Connections**

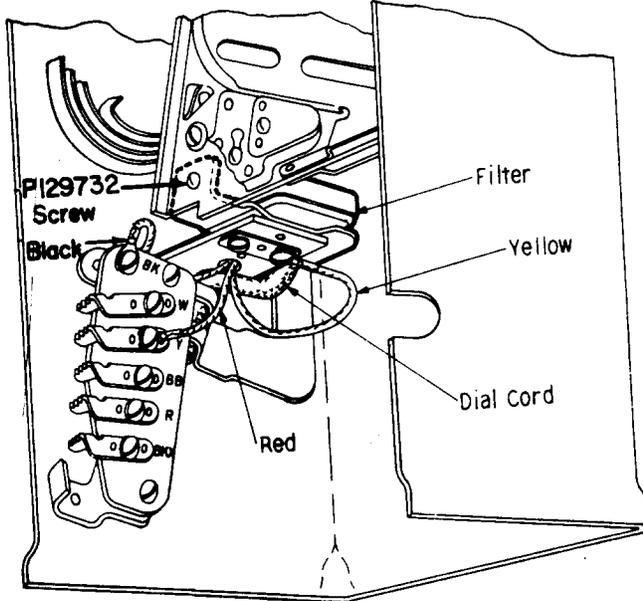
<u>Filter Lead</u>	<u>Terminal</u>
Red	To D-161488 connector. Also disconnect the lead which is connected to Y of dial and connect the lead to D-161488 connector. Tubing should be cut to 1½ in. (Tape may be used if tubing is not available.) Other screw terminals which can be readily added to a set may also be used.
Yellow	To Y of dial.
Black	To BK of dial.

**Fig. 16 — 61N Filter Shown in H8 and H9 Telephone Set Mounting**

**Connections**

<u>Filter Lead</u>	<u>Terminal</u>
Red	To filter bracket terminal. Also disconnect the lead which is connected to Y of dial and connect this lead to filter bracket terminal.
Yellow	To Y of dial.
Black	To BK of dial.

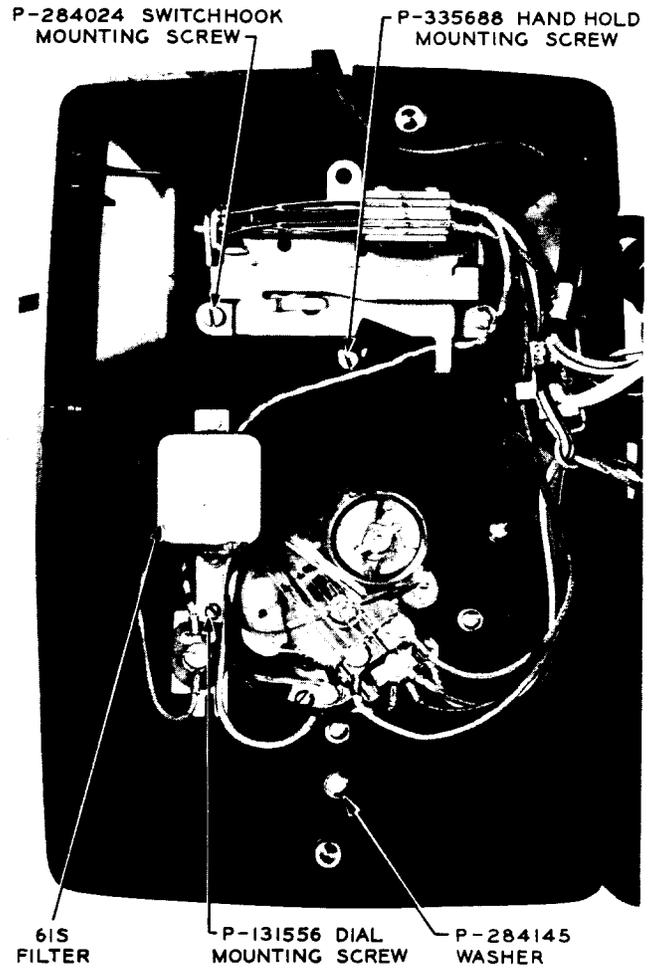
**Fig. 17 — 61P Filter Shown in H-Type (except H8 and H9) Telephone Set Mounting**



**Connections**

<u>Filter Lead</u>	<u>Terminal</u>
Yellow	To filter bracket terminal. Also disconnect yellow lead from Y housing contact and connect to filter bracket terminal.
Red	To Y of housing contact.
Black	To BK of housing contact.

**Fig. 18 — 61R Filter Shown in 191-Type Coin Collector**



**Connections**

<u>Filter Lead</u>	<u>Terminal</u>
Red	To filter bracket terminals. Also disconnect the lead which is connected to Y of dial and connect this lead to filter bracket terminal.
Yellow	To Y of dial.
Black	To BK of dial.

**Fig. 19 — 61S Filter Shown in 5300- and 5400-Series Telephone Set Housing**