

BELL SYSTEM PRACTICES
Station Installation and Maintenance

SECTION C32.512
Issue 1, 9-30-47
AT&T Co Provisional

STATION SETS FOR AUTOMATIC TICKETING SYSTEM

1. GENERAL

1.01 This section gives general information pertaining to the station sets for use at automatic ticketing stations in step-by-step areas.

1.02 Except as covered herein description, apparatus, installation, cording, maintenance and connections for automatic ticketing station sets are the same as for other station sets covered in Divisions C30 and C60.

1.03 Only individual line stations and two-party flat rate and two-party message rate stations are connected to the automatic ticketing equipment.

2. STATION SETS

2.01 Individual line stations and tip-party dial message rate stations employ station sets of the types usually used for these services (the 302G or equivalent set at individual line stations and the 304C or equivalent set at tip-party dial message rate stations). Ring-party flat rate and ring-party message rate stations employ station sets of the types usually used at ring-party dial message rate stations (302G or equivalent set). These latter sets always have a separate condenser unit in series with the ringer so there will be no d-c path to ground at ring-party stations. The tip-party flat rate stations employ the same types of station sets as those used at tip-party dial message rate stations, except that the sets must be rewired as covered in 2.02 and associated figures. This rewiring is required to provide a tip-party identifying ground of resistance high enough (about 3640 ohms) to permit the automatic ticketing central office equipment to function properly when connected to two-party flat rate lines. At tip-party message rate stations the identifying ground resistance is about 960 ohms.

2.02 Station sets for tip-party flat rate stations are as follows:

<u>Code No.</u>	<u>Type of Set</u>	<u>Remarks</u>
*304C-3	Telephone Set	Wire per Fig. 1
203B-3 or E-3	Hand Telephone Set	Wired per Fig. 2
212B-3	Hand Telephone Set	Wired per Fig. 3
151R	Desk Stand	Equipped and wired per Fig. 4
653CE	Subscriber Set	Equipped and wired per Fig. 5
354C-3	Telephone Set	Wired per Fig. 6
634CE	Subscriber Set	Wired per Fig. 2

* Select sets having B2A or B2AL Ringers with slate-red lead long enough to reach GND terminal in set.

3. CONNECTIONS

3.01 The changes in connections referred to in Paragraph 2.02 to rewire standard sets for tip-party flat rate service are shown in Tables 1, 2 and notes below.

TABLE 1

<u>Type of Set</u>	<u>Ringer Leads</u>				<u>Condenser Leads</u>			
	<u>Slate</u>	<u>Black</u>	<u>Red</u>	<u>Slate-Red</u>	<u>Slate</u>	<u>Black</u>	<u>Yellow</u>	<u>Red</u>
304C	K	RR	M	GND	K	BK	L2	C
354C	K	RR	M	GND	K	BK	L2	C
634CE	K	RR	M	GND	K	BK	L2Y	C
653CE	K	SR	M	GND	K	BK	Y	C

TABLE 2

<u>Type of Set</u>	<u>Hand Set Mounting Cord</u>						<u>Hand Set Cord</u>		
	<u>Red-Red</u>	<u>Yellow-Yellow</u>	<u>Green</u>	<u>Yellow</u>	<u>Black</u>	<u>Red</u>	<u>Black</u>	<u>Red</u>	<u>White</u>
*203B	Y(2)	YY(2)	GN(3)	YY(3)	BK(1)	R(2)	BK(1)	R(2)	W(1)

Notes: Bold face type indicates connections that must be changed in sets as furnished.

- (1) = dial terminals.
- (2) = right spring combination.
- (3) = left spring combination.

* M1 type cord 7 in. long connected between YY(2) and YY(3) is not used but a M1 type cord 5-1/2 in. long is connected between Y(2) and R(1).

The 212B hand telephone set is to be used as furnished except omit the M1 type cord 5-1/2 in. long connected between YY and Y of the spring combinations.

The 151R desk stand is to be used as furnished except a M1 type cord 7 in. long is added and connected between RR on the rack and R of the dial.

4. MAINTENANCE

Ringer Adjustments

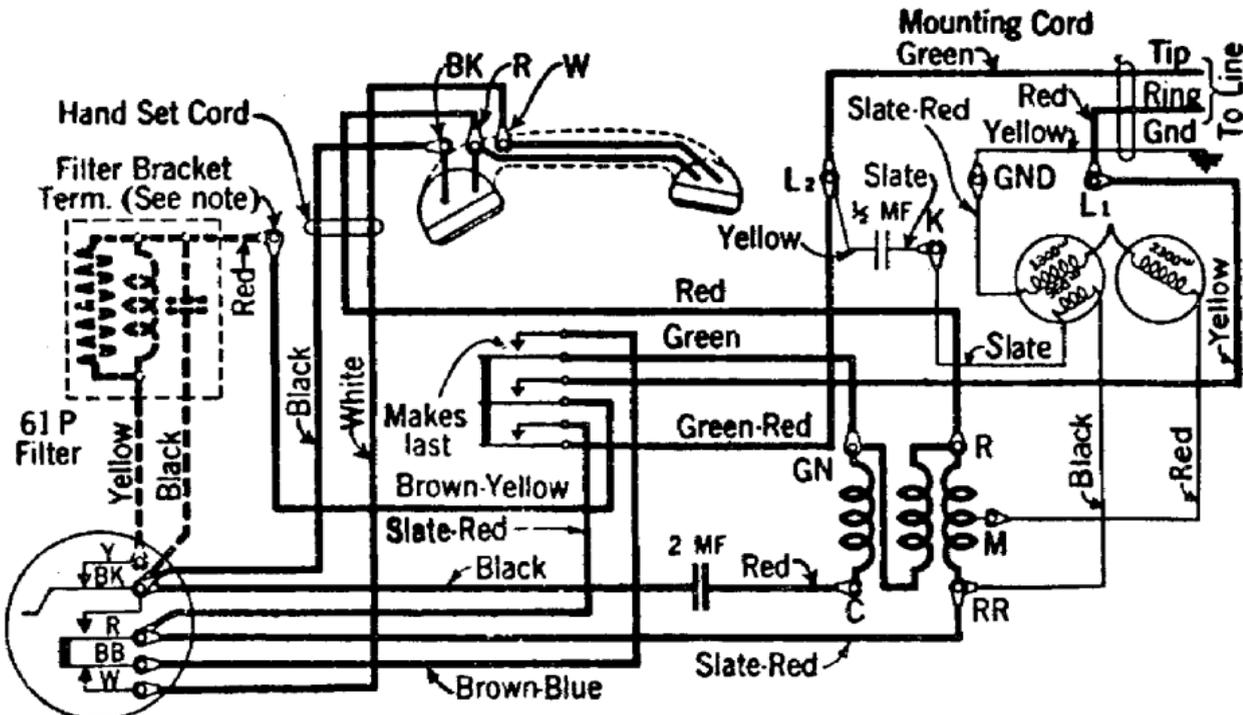
Biasing Spring Setting—Two-Party Flat Rate Stations

4.01 Adjustment to prevent bell tapping at two-party flat rate ring and tip stations, in case of numbered type ringers shall be made by adjusting the biasing spring to a tension of 30 grams. The biasing spring on B type ringers shall be placed in the high notch.

Note: On calls which require connection to the automatic ticketing central office equipment, the ringers on two-party flat rate lines are subject to more severe bell tapping conditions than normally encountered on other types of calls. Where local experience indicates that this bell tapping condition is not severe enough to require the 30 gram adjustment, the ringers may be adjusted by reducing the biasing spring tension until bell taps and then increasing the tension by turning the biasing spring stud 1/16 turn at a time as covered in Section C31.205.

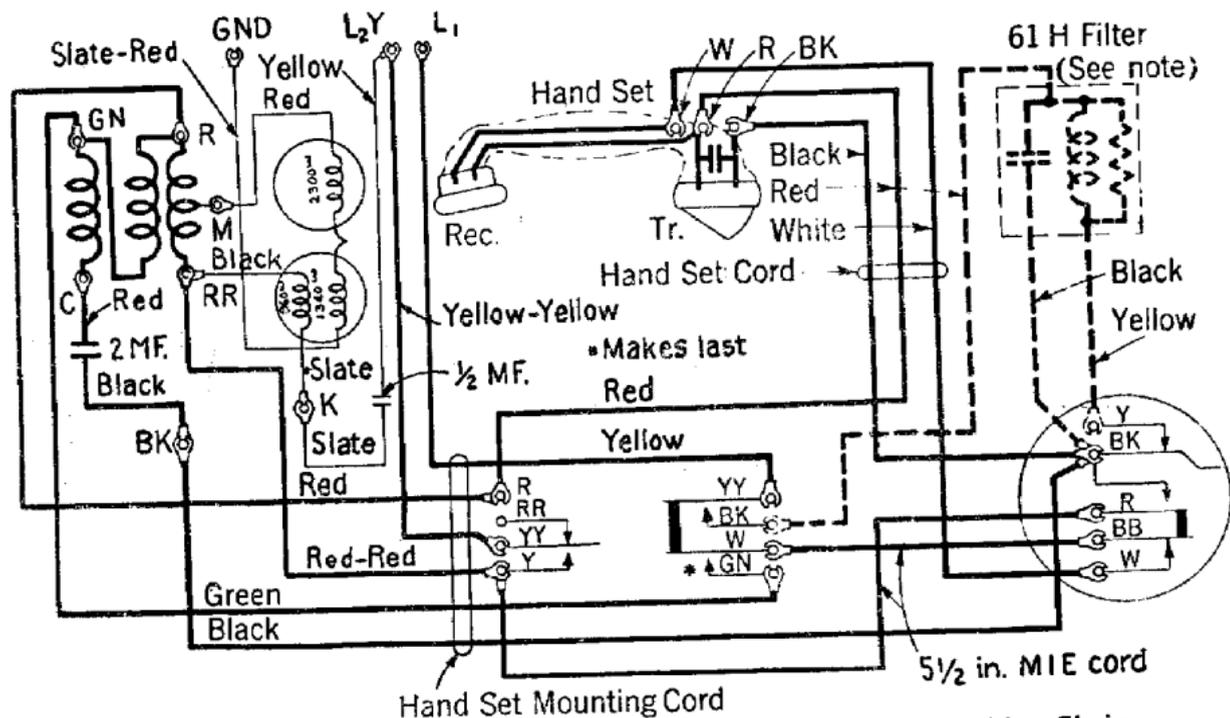
Biasing Spring Setting—Two-Party Message Rate Stations

4.02 Biasing spring of B type ringers at two-party message rate ring and tip stations, shall be placed in the high notch, instead of in the medium notch as specified in Section C31.205.



Note: If filter is not provided connect brown-yellow lead from switch contacts to Y of dial instead of to filter bracket terminal.

Fig. 1—304C Telephone Set (Rewired)



Note: If filter is not provided connect BK mounting contact to Y of dial with a 5 1/2 in. MIE cord.

Fig. 2—203B Hand Telephone Set (Rewired) or 203E Hand Telephone Set with 634CE Subscriber Set (Rewired)

Note:- If filter is not provided connect BK mounting contact to Y of dial with a 5½ inch M1E cord.

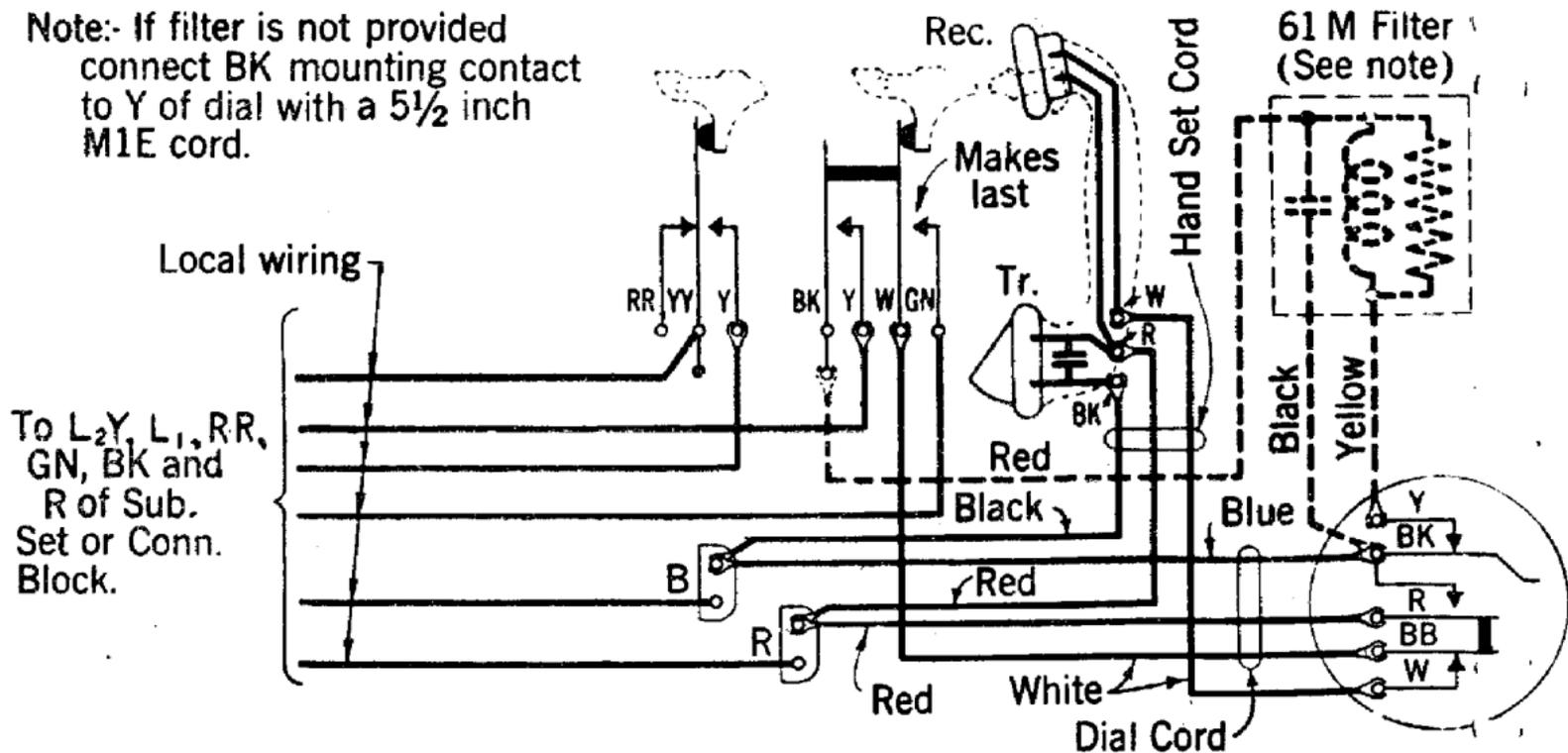


Fig. 3—212B Hand Telephone Set Rewired with 634CE Subscriber Set (Rewired)

To L₂Y, R R, L₁,
BK, GN and
R of Sub. Set
or Conn. Block

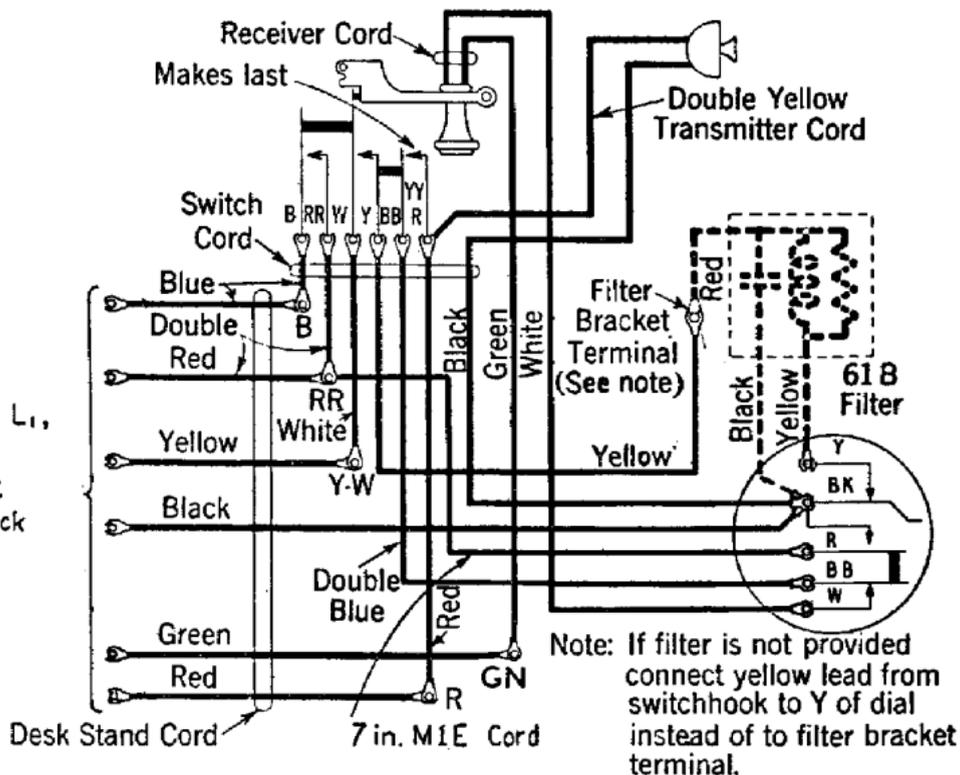
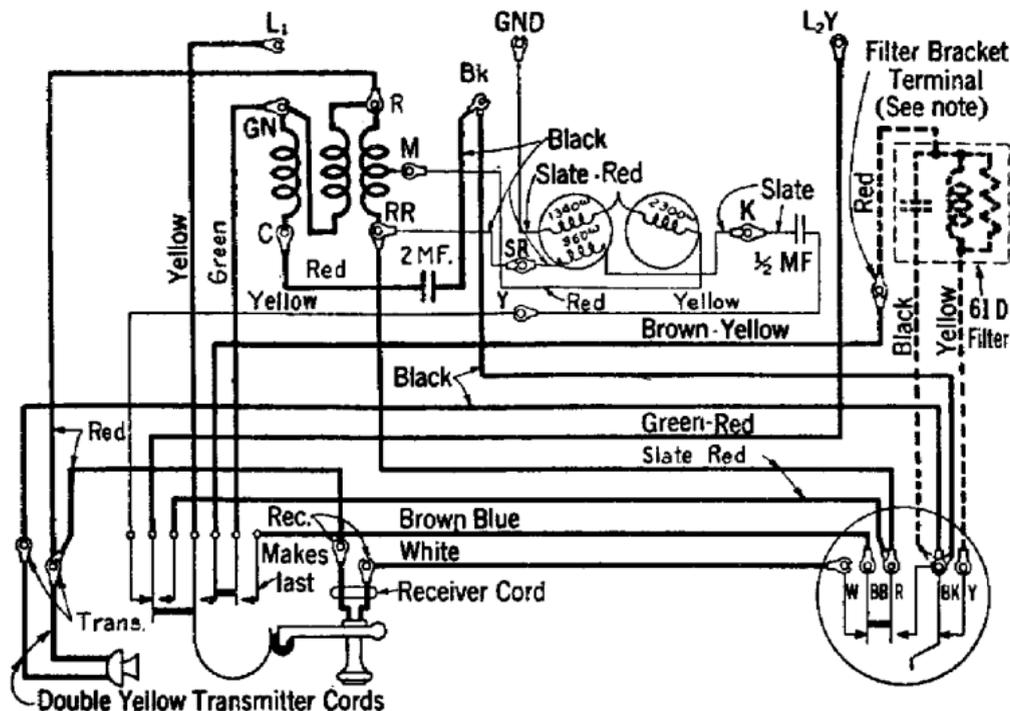
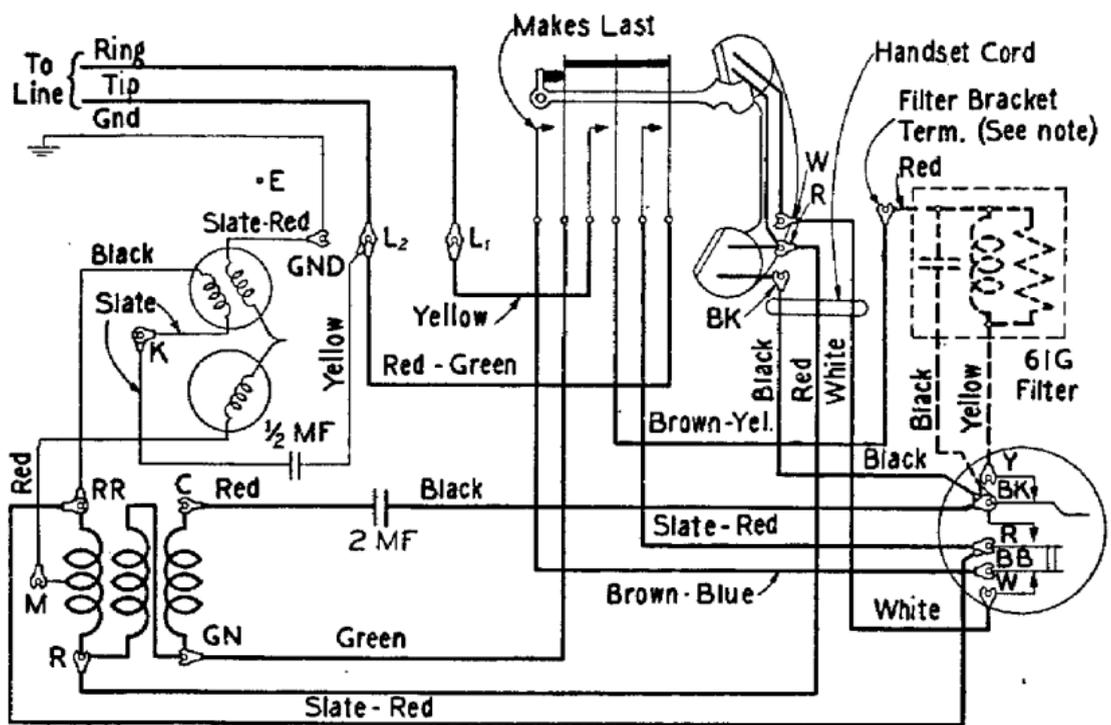


Fig. 4—151R Desk Stand (Rewired) for Use with 634CE Subscriber Set (Rewired)



Note: If filter is not provided connect brown-yellow lead from switchhook to "Y" of dial instead of to filter bracket terminal.

Fig. 5—653CE Subscriber Set (Rewired)



Note: If filter is not provided connect brown - yellow lead from switch contacts to Y of dial instead of to filter bracket terminal.

Fig. 6—354C Telephone Set (Rewired)