

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

**SECTION C30.011**  
**Issue 6, December, 1953**  
**AT&T Co Standard**

## **COLORED STATION SETS**

### **1. GENERAL**

- 1.01 This section gives general information pertaining to colored station sets and parts.
- 1.02 It is reissued to include colored sets of 354, 356, 357, 500, and 501-types, delete information on the 5JB dial (which is being included in the section covering dials), and make other changes of a minor nature. Due to the extent of the rearrangement, arrows indicating revisions have been omitted.
- 1.03 Colored sets are available in two types, painted and colored plastic. The painted type have housings, handsets, and apparatus blanks finished in matching colors. The plastic type have colored parts made of colored plastic material with clear plastic switch plungers.
- 1.04 When a painted part of a colored telephone set is defective the entire set shall be replaced. However, on colored plastic sets, which are not as subject to discoloration as painted sets, individual parts may be replaced.
- Note:** If it is necessary to replace the handset, transmitter, or receiver cap on pre-war colored plastic sets, the complete telephone set shall be replaced with the newer type of similar color and code. This later F1-type handset can be identified by an embossed dot after the "F1" on the handle.
- 1.05 Ordering information for the various types of colored station sets and parts is given in Tables 1 and 2 of this section.

### **2. SUBSCRIBER SETS AND HAND-TELEPHONE SETS**

2.01 Colored subscriber and hand-telephone sets for maintenance replacement only are available on special order. Where the replacement of a desk-type hand telephone set is required, consideration should be given to replacing it with a telephone set of the same finish.

### **3. TELEPHONE SETS**

3.01 302E, F and G, 304B and C, 305E, F and G, 306A, B and C plastic telephone sets are available in ivory, old rose, dark-blue, gray-green, and pekin red. Painted sets of the types mentioned above are obtainable in oxidized silver, statuary bronze, old brass, and dark gold. Other telephone sets in these finishes or other painted finishes are available only on special order.

3.02 354A and C, 356A and C, and 357A and C plastic type wall telephone sets are available (other than black) in ivory only. These sets consist of ivory housings, handsets and apparatus blanks, chrome handset hooks, etc. When equipped with a dial the 6D or 5JB is used.

3.03 The 500C and D, and the 501C and D plastic telephone sets are made in eight full colors and four two-tone colors as given below:

(a) In the full color group, ivory, green, brown, and beige sets have matching dials. The gray, red, yellow, and blue sets are equipped with standard black dials. Full colored manual sets have matching apparatus blanks.

(b) Sets in the two-tone group have standard black handsets, standard black dials or apparatus blanks with housings only in gray, red, yellow, and blue.

### **4. CORDS**

4.01 Colored telephone sets in the 300 series have cords with cotton braids that harmonize with the color of the set. Long cords and plug ending cords can be obtained by ordering separately.

4.02 Telephone sets in the full color group of the 500 series are equipped with jacketed cords in ivory, gray, and brown. Two-tone sets in this series are furnished with the standard black jacketed cords.

### **5. DIALS**

5.01 The 6D dial, which supersedes the 5JB, should be used for replacement purposes on plastic and painted sets except those in the 500 series.

5.02 The 7D-3 dial is used on all colored sets in the 500 series except ivory, green, brown, and beige in the full color group. These four sets take the 7C dial with the applicable dash number.

## **6. STATION NUMBER CARDS**

- 6.01 A station number card of neutral gray color, E4203 (2 line) or E4204 (3 line) is used on all colored sets.

## **7. REFERENCE SECTIONS**

- 7.01 For information on colored jacks, plugs, cords, dials, connecting blocks, etc., consult the respective sections covering that apparatus.

TABLE I

a. Older Type Plastic Telephone Sets (Similar to 302-type)

Apparatus Color	Dash No.	*Clear Plastic Finger Wheel	Number Card	App. Blank	Chrome Card Holder Frame	Transmitter Cap	Set Cords	
							Receiver Cap	Code (—) No.
Ivory	—4	P-19B524	{ E4203 or E4204	94A-4	P-296741	P-349014	P-349015	Ivory —4
Old Rose	—16	P-19B524		94A-16	P-296741	P-349659	P-349663	Old Rose —16
Dark Blue	—18	P-19B524		94A-18	P-296741	P-349660	P-349664	Dark Blue —18
Gray-Green	—19	P-19B524		94A-19	P-296741	P-349661	P-349665	Gray-Green —19
Pekin Red	—20	P-19B524		94A-20	P-296741	P-349662	P-349666	Pekin Red —20

b. Wall Telephone Sets (Similar to 354-type)

App. Color	Dash No.	Housing	*Clear Plastic Finger Wheel	Dial	Handset Hook	Handset	Transmitter Cap	Receiver Cap	Card		Number Card	Cord
									App. Blank	Holder Frame		
Ivory	—4	P-340314	P-19B524	6D or 5JB	P-340319	F1A-4	P-349014	P-349015	94A-4	P-296741	{ E4203 or E4204	Ivory

c. Apparatus other than Plastic Telephone Sets (Painted)

				Set Cords		Code
Apparatus Color	Dash No.	*Clear Plastic Finger Wheel	Number Card	Card Holder Frame	Color	(—) No.
Old Brass	—6	P-19B524	{ E4203 or E4204	P-219942	Brown	—9
Statuary Bronze	—7	P-19B524		P-219943	Brown	—9
Oxidized Silver	—8	P-19B524		P-219941	Silver	—8
Dark Gold	—12	P-19B524		P-219947	Gold	—12

\* The P-344837 finger wheel may be substituted when the P-19B524 is not available.

TABLE II

† 500 Series Telephone Sets and Parts

## a. Full Color Group

App. Color	Dash No.	Handset	Housing	Transmitter		Receiver		Dial	Finger Wheel	Number Card	App. Blank	Chrome Card Holder Frame	Set Cords	
				Cap	Cap	Cap	Cap						(—) Code	No.
Ivory	—50	G3A-50	P-13A385	P-19B722	P-19B738	7C-50	P-19B524				95A-50	P-296741	Ivory	—50
Green	—51	G3A-51	P-13A386	P-19B723	P-19B739	7C-51	P-19B524				95A-51	P-296741	Gray	—52
Gray	—52	G3A-52	P-13A387	P-19B724	P-19B740	7D-3	P-349543				95A-52	P-296741	Gray	—52
Red	—53	G3A-53	P-13A388	P-19B725	P-19B741	7D-3	P-349543				95A-53	P-296741	Gray	—52
Brown	—54	G3A-54	P-13A515	P-19B726	P-19B742	7C-54	P-19B524				95A-54	P-296741	Brown	—54
Beige	—55	G3A-55	P-13A516	P-19B727	P-19B743	7C-55	P-19B524				95A-55	P-296741	Gray	—52
Yellow	—56	G3A-56	P-13A517	P-19B728	P-19B744	7D-3	P-349543				95A-56	P-296741	Gray	—52
Blue	—57	G3A-57	P-13A518	P-19B729	P-19B745	7D-3	P-349543				95A-57	P-296741	Gray	—52

## b. Two-Tone Group

The Dash Numbers for Two-Tone Telephone Sets are:

- 50A Equipped with \*Ivory Housing
- 51A Equipped with \*Green Housing
- 52A Equipped with \*Gray Housing
- 53A Equipped with \*Red Housing

\* Get piece-part numbers for these housings from the (a) table above.

† When ordering specify piece part or code number with associated dash number (when required) of item desired.

COLORED STATION SETS

1. GENERAL:

1.01 This addendum modifies and supplements Section C30.011, Issue 6. It is issued to provide information concerning colored station number card masks and the installation of station number cards on transparent finger-wheels.

PART 6. STATION NUMBER CARDS is replaced by the following:

6. STATION NUMBER CARDS:

6.01 Pending availability of the new neutral gray station number cards (Form E-4203, E-4204) appropriately colored station number card masks and standard station number cards shall be used with the colored telephone sets listed below.

Apparatus Color	App. Code Dash No.	Station No. Card	
		Code	<u>Masks</u> Color
Ivory	- 4	E-2954-4	Ivory
Old Rose	- 16	E-2954-16	Old Rose
Dark Blue	- 18	E-2954-18	Dark Blue
Gray Green	- 19	E-2954-19	Gray Green
Pekin Red	- 20	E-2954-20	Pekin Red
Old Brass	- 6	E-2954-6	Yellow
Statuary Bronze	- 7	E-2954-7	Blue
Oxidized Silver	- 8	E-2954-5	Gray
Dark Gold	- 12	E-2954-11	Gold
Ivory	- 50	E-2954-4	Ivory
Green	- 51	E-2954-19	Gray Green
Gray	- 52	Not Required	-
Red	- 53	Not Required	-
Brown	- 54	E-2954-11	Gold
Beige	- 55	E-2954-16	Old Rose
Yellow	- 56	Not Required	-
Blue	- 57	Not Required	-
Ivory (two-tone)	- 50A	Not Required	-
Green (two-tone)	- 51A	Not Required	-
Gray (two-tone)	- 52A	Not Required	-
Red (two-tone)	- 53A	Not Required	-

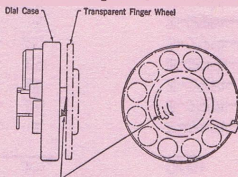
The following is added:

8. TRANSPARENT FINGER WHEELS:

8.01 Install or remove transparent finger wheels, station number cards and masks as outlined hereinafter.

P372629 Finger Wheel (Earlier Standard)

8.02 To attach the finger wheel place it over the clamp with the three legs of the spider clamp seated in the three notches of the finger wheel and then rotate the tab on the movable finger wheel clamp as indicated in the illustration, having first exerted a slight upward pressure on the tab to permit rotation. A thin blade screw-driver or any other thin bladed tool may be used to operate the clamp.



Tab of Finger Wheel Clamp to be forced in direction indicated by arrow to remove Finger Wheel and in reverse direction to attach Finger Wheel.

Caution: To prevent the screw-driver from slipping when using it to operate the clamp, insert it at right angles so that the edge engages the clamp, sight between the finger wheel and number plate to be certain that the screw-driver blade is firmly engaged with the clamp and place the thumb of the hand in which the screw-driver is being held against the finger wheel to prevent its rotation.

8.03 To detach the finger wheel, move the clamp in a counter-clockwise direction. The finger wheel may then be lifted off.

8.04 To install the regular station number card in the under side of the finger wheel, remove the finger wheel from the dial as in paragraphs 8.02 and 8.03 and then remove the card support from the finger wheel by turning the support in a clockwise direction until the three legs of the support reach the open slots of the finger wheel. The support may then be lifted out. Seat the window with its slot fitted

in the lug molded on the side of the card recess. Assemble the regular number card and mask in a similar manner with the cutaway portion of the card fitted into the lug and press in place. Drop in the number card support with the convex side down and turn in a counter-clockwise direction so that the legs of the support enter the grooves in the wall of the finger wheel card recess and continue turning until stopped by the end of these grooves.

#### P344837 Finger Wheel

8.05 This improved finger wheel replaced the previously standard finger wheel (P-372629) and associated piece parts.

8.06 The finger wheel and associated piece parts are stocked in one package for installation purposes and may be obtained by ordering (quantity) P-43A212 Finger Wheel. The following list and associated sketch Fig. 1 will serve to identify the various component parts required for maintenance replacement.

8.07 Finger wheel P-344837 is similar in size and shape to the finger wheel it replaces except that it is equipped with a small hole near the edge of the number card ring and centrally located between the ninth and tenth finger holes. The finger wheel is not interchangeable with the former model.

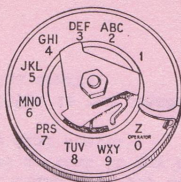
Window P-137593 is retained and used without change.

Card Support P-479182 is retained and used without change.

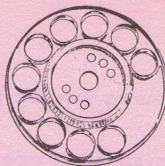
Finger Wheel Clamp P-347999 is a triangular shaped flat metal disc designed so that it may be used to secure the new finger-wheel to the dial shaft.

Hex Nut P-153996 is the standard nut used to secure finger wheels to dial shafts.





5J Dial with Finger Wheel Clamp P-347999 and Hex Nut P-I53996



Finger Wheel P-344837 with Number Card Support P-479182 and Window P-I37593



Finger Wheel Clamp P-347999



Hex Nut P-I53996

Fig. 1

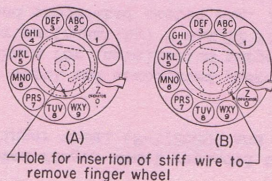


Fig. 2

8.08 After having removed the existing finger wheel from the dial, secure the finger wheel clamp to the dial shaft with the standard hex nut making sure to have the end of the spring clip near the numeral 9 on the number plate with the dial in normal position.

8.09 Place the window, mask, number card and number card support in the transparent finger wheel in accordance with instructions as covered in paragraph 8.04.

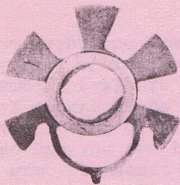
8.10 Place the finger wheel over clamp with the "0" hole directly over digit "9" making sure that the three finger wheel depressions are properly seated on the prongs of the clamp Fig. 2 - (A). Rotate finger wheel in counter-clockwise direction until clamp spring snaps into notch on underside of finger wheel Fig. 2 - (B).

8.11 To remove finger wheel rotate finger wheel in a clockwise direction as far as possible. Insert a stiff wire such as a paper clip into the small hole in edge of raised center of finger wheel and push down to disengage the clamp spring while continuing to rotate finger wheel in clockwise direction.

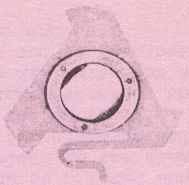
#### P-19B524 Finger Wheel

8.12 The 6D dial is available to replace the 5J dial presently employed on 302- type colored telephone sets. This dial is equipped with a new transparent finger wheel (P19B524) which is attached and removed in the same manner as the present standard transparent finger wheel P-344837. This new finger wheel has been designed for use with the 5J, 6D and 7C dials.

8.13 The new finger wheel clamping plate (P-13A106), shown in the illustration, has been designed for use with this finger wheel when it is associated with 6- and 7-type dials. Two arms have been provided in addition to the three engaging the circumferential slots on the finger wheel to limit the amount by which the plate can be pivoted about the detent arm. A washer has also been welded to the clamping plate to provide the proper thickness for clamping and when assembled to the dial with the washer facing the dial hub properly controls the height of the finger wheel on the dial. The clamping plate is assembled to the dial with the detent arm pointing approximately toward zero and is fastened to the dial hub using the standard lock washer and nut.



NEW DESIGN  
CLAMP PLATE  
P-13A106



INTERMEDIATE DESIGN  
CLAMP PLATE  
GB-178387

8.14 The new P-43A342 finger wheel assembly, consisting of the P-19B524 finger wheel and P-13A106 clamping plate, will be used on the 6D dial as soon as manufacturing conditions permit which is expected to occur during the fourth quarter of 1954. In the interim, 6D dials will use the P-344837 finger wheel and a temporary clamping plate (GB-178387) which has been assigned a finger wheel assembly number P-43A352 and which is interchangeable with finger wheel assembly P-43A342. The older type plastic finger wheel (P-372629) and associated parts cannot be used with the newer transparent finger wheels (P-19B524 and P-344837) and clamping plates (P-13A106, P-347999 and GB-178387).