

## TELEPHONE SETS

# THE CALL DIRECTOR

### 630, 631, AND 632 TYPES

### (600A, B, AND 601A)

#### IDENTIFICATION AND ASSEMBLY OF PARTS

##### 1.00 GENERAL

1.01 This practice is reissued to:

- Add white to the list of available colors.
- Change Table A and Table B.
- Add information to 2.02 on replacement ringers.
- Add notation to 3.09 on wire clips.

1.02 The 600A and 630 (18-button) and 601A and 631 (30-button) types are illuminated-button telephone sets. They are designed to permit answering, originating, signaling, or holding calls on central office, PBX, tie lines, etc., when associated with 1A, 1A1, 6A, or equivalent key telephone systems.

1.03 The 600B- and 632-type (18-button) telephone sets are similar to the above sets. They are limited for use with 1A1 and 6A key telephone systems. They cannot be converted for use with 1A key telephone systems because the necessary mounting cord conductors are not provided.

1.04 The 601B telephone set was never manufactured and the code has been canceled.

1.05 All telephone sets are shipped for use in 1A1 key telephone systems and are equipped with 51A lamps. However, when 600A-, 630-, 601A-, and 631-type sets are connected with 1A or combinations of 1A1 and 1A systems, spade-tipped leads provided must be rearranged on terminal strips in accordance with section entitled Telephone Sets, THE CALL DIRECTOR, 630 and 631 Types (600A and 601A), Connections.

1.06 A multicontact plug and jack system connects the keys and the mounting cord. This allows easy replacement or rearrangement of the keys or of the complete set.

##### 2.00 IDENTIFICATION

2.01 These sets are equipped with a colored plastic housing with a sloping front surface, in which are mounted a dial and either three or five 6-button keys (Fig. 1, 2, 3, and 4). The sloping front surface is covered by a colored mat held down by clear plastic faceplates. The colored handset is supported by a switchhook extending from left side of telephone set. Sets are available in moss green (51), white (58), beige (60), or light gray (61). Five mats are furnished with each set and are colored as shown in Table A.

2.02 The telephone circuit of these sets is similar to that of 500-type sets. They contain a 425B network, a D1A ringer, a switchhook supporting a G3AR hand set of matching color, and a 6L-41 dial (Fig. 1, 2, 3, and 4). The D1A ringer is a single-gong ringer and has a control mechanism arranged to vary the volume of the ringing from LOUD to OFF when control lever is moved through its full travel. Control lever projects through base at front of set. Some D1A ringers have been manufactured with an external terminal plate permanently attached and will not fit these sets. Therefore, use a D1B ringer when replacements are necessary. In addition to single-gong ringer, a 7-type buzzer or a KS-8109 buzzer may be mounted internally on a 65A bracket.

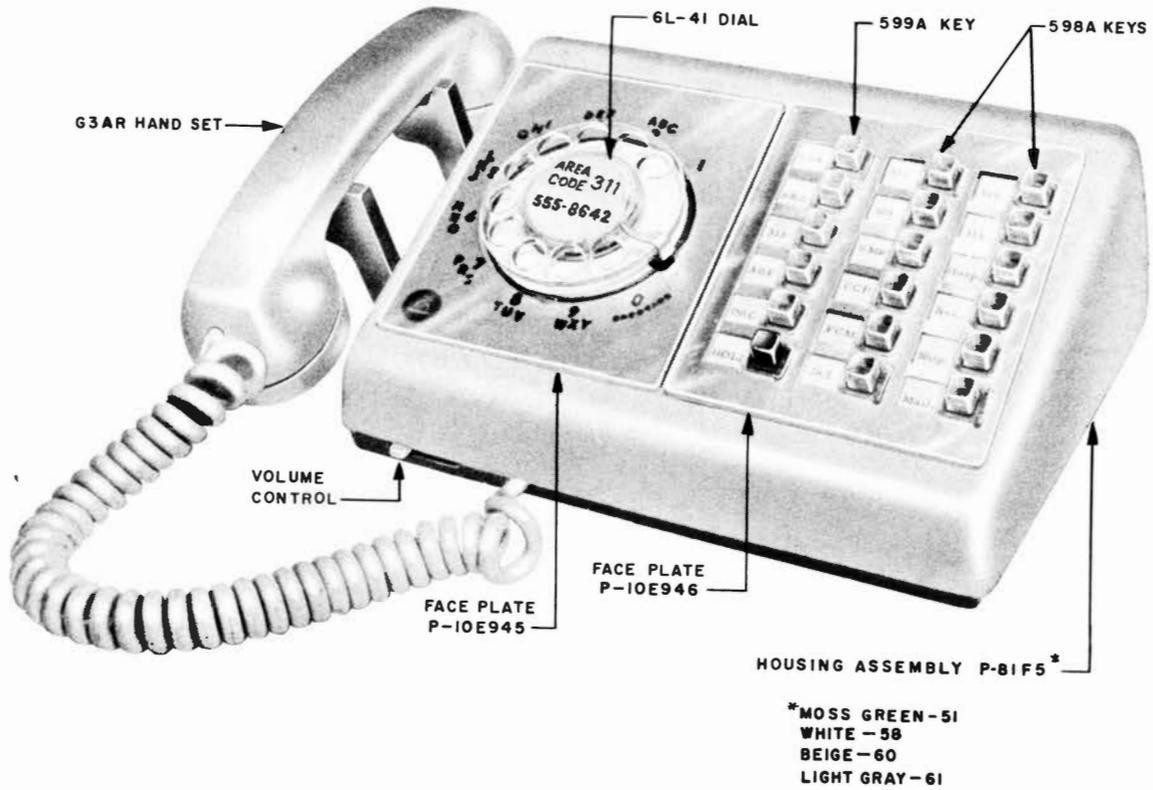


Fig. 1 - 600-Type Telephone Set

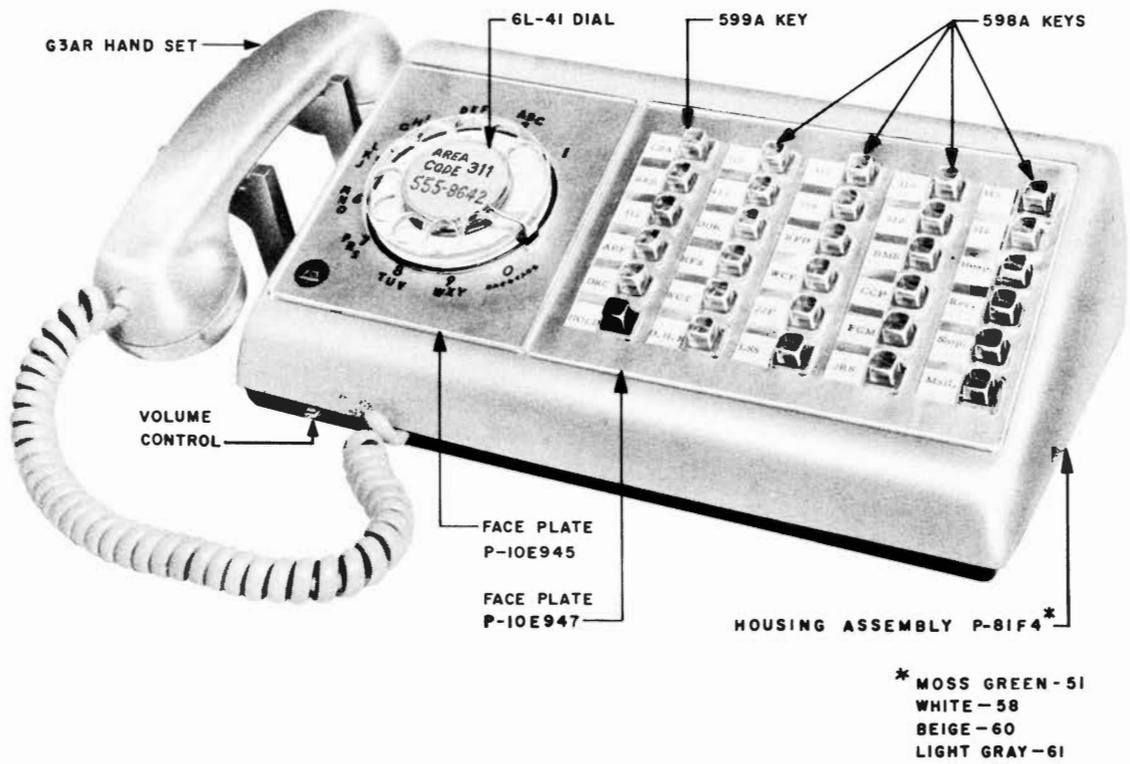


Fig. 2 - 601-Type Telephone Set

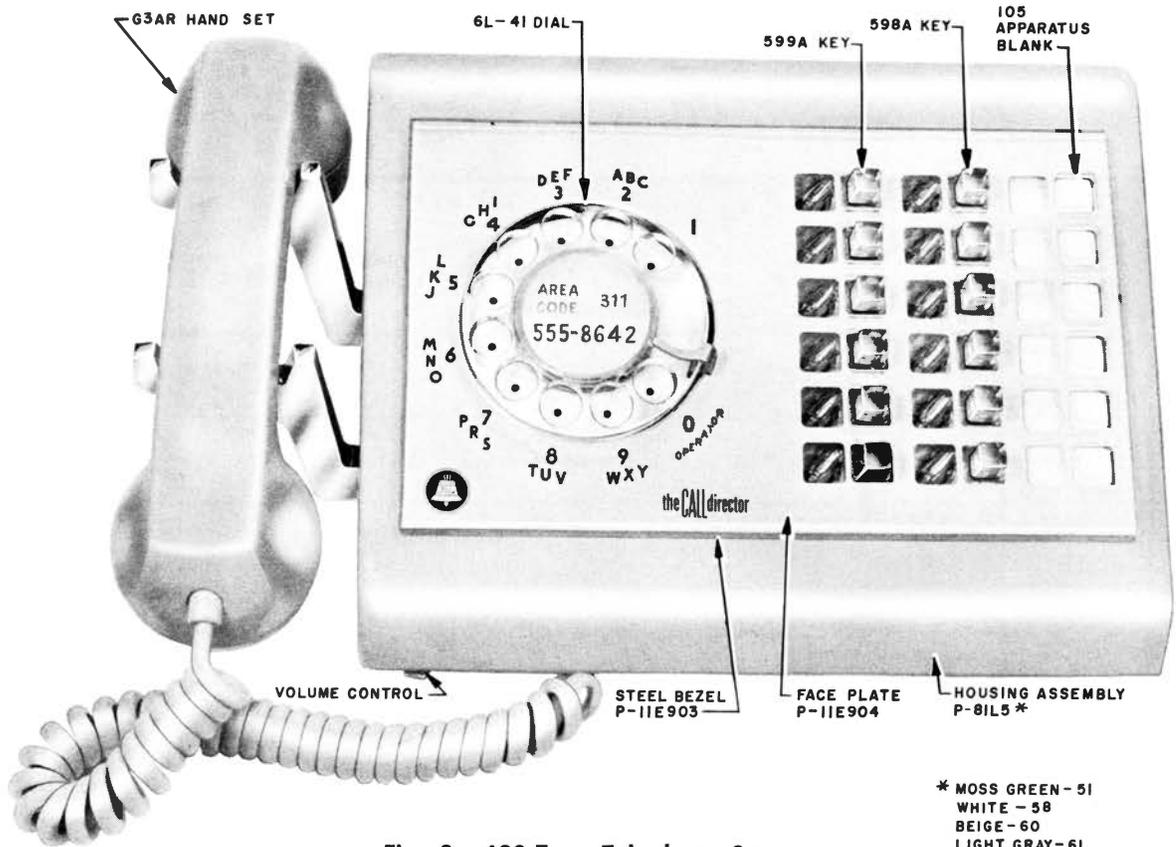


Fig. 3 - 630-Type Telephone Set

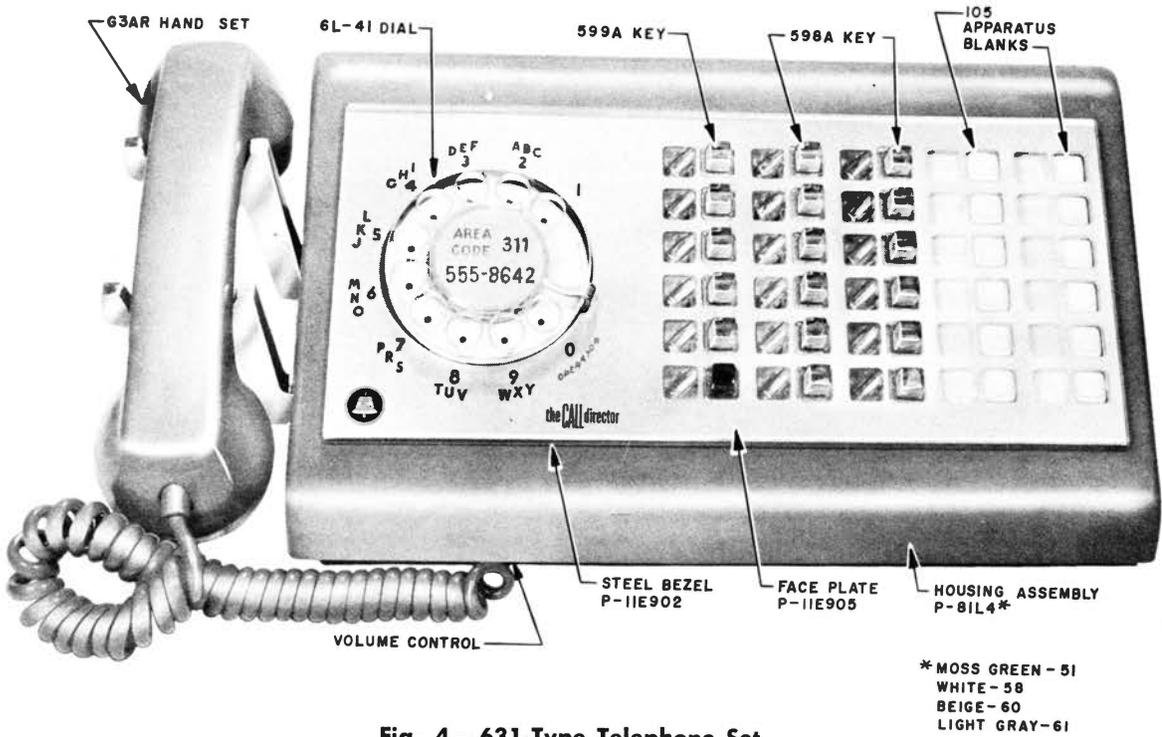


Fig. 4 - 631-Type Telephone Set

**TABLE A**  
**FACE PLATES, MATS**

Type Set	Face Plate Assembly	Face Plate only	Mats						Bezel
			Gold	Blue	Green	Cream White	Silver	Package one of Each Color	
600A*	P-10E945†		P-11E012	P-11E013	P-11E014	P-11E015	P-10E935		
	P-10E946								
601A*	P-10E945†		P-11E016	P-11E017	P-11E018	P-11E019	P-10E948		
	P-10E947								
630 632	20A‡	P-11E904	P-11E897	P-11E898	P-11E899	P-11E900	P-11E901	P-13E549	P-11E903
	20B‡	P-12E440							
	20C‡	P-12E438	P-12E444	P-12E445	P-12E446	P-12E447	P-12E448	P-13E550	
	20D‡	P-12E439							
	20J‡	P-15E710	P-11E897	P-11E898	P-11E899	P-11E900	P-11E901	P-13E549	
631	21A‡	P-11E905	P-11E892	P-11E893	P-11E894	P-11E895	P-11E896	P-13E552	P-11E902
	21B‡	P-12E441							
	21C‡	P-12E442	P-12E459	P-12E460	P-12E461	P-12E462	P-12E463	P-13E553	
	21D‡	P-12E443							
	21E‡	P-12E733	P-11E892	P-11E893	P-11E894	P-11E895	P-11E896	P-13E552	
	21F‡	P-12E734							

\* Components required to convert 600- and 601-type sets to 630- and 631-type sets are as follows:

<u>Slotted Housing</u>	<u>Steel Bezel</u>	<u>Face Plate Assembly</u>
18-Button P-81L500	P-11E903	20A
30-Button P-81L400	P-11E902	21A

**Conversion procedure:**

1. Remove faceplates, mat, and housing.
2. Remove from dial the three metal clips that support dial face plate.
3. Remove wire clips at top and bottom of each key unit.
4. Install new housing, steel bezel, and faceplate assembly.

† Plastic faceplate to cover dial.

‡ Includes plastic faceplate and five colored mats.

**2.03** These 600-type sets are designed to accommodate three or five 6-button keys and other optional features. The new telephone set codes for ordering sets for the various module units are covered in section entitled Telephone Sets, THE CALL DIRECTOR, Code Changes and Proposed Additions.

**2.04** Module units are covered in section entitled Telephone Sets, THE CALL DIRECTOR, Module Units, Identification and Assembly of Parts.

### **3.00 ASSEMBLY OF PARTS**

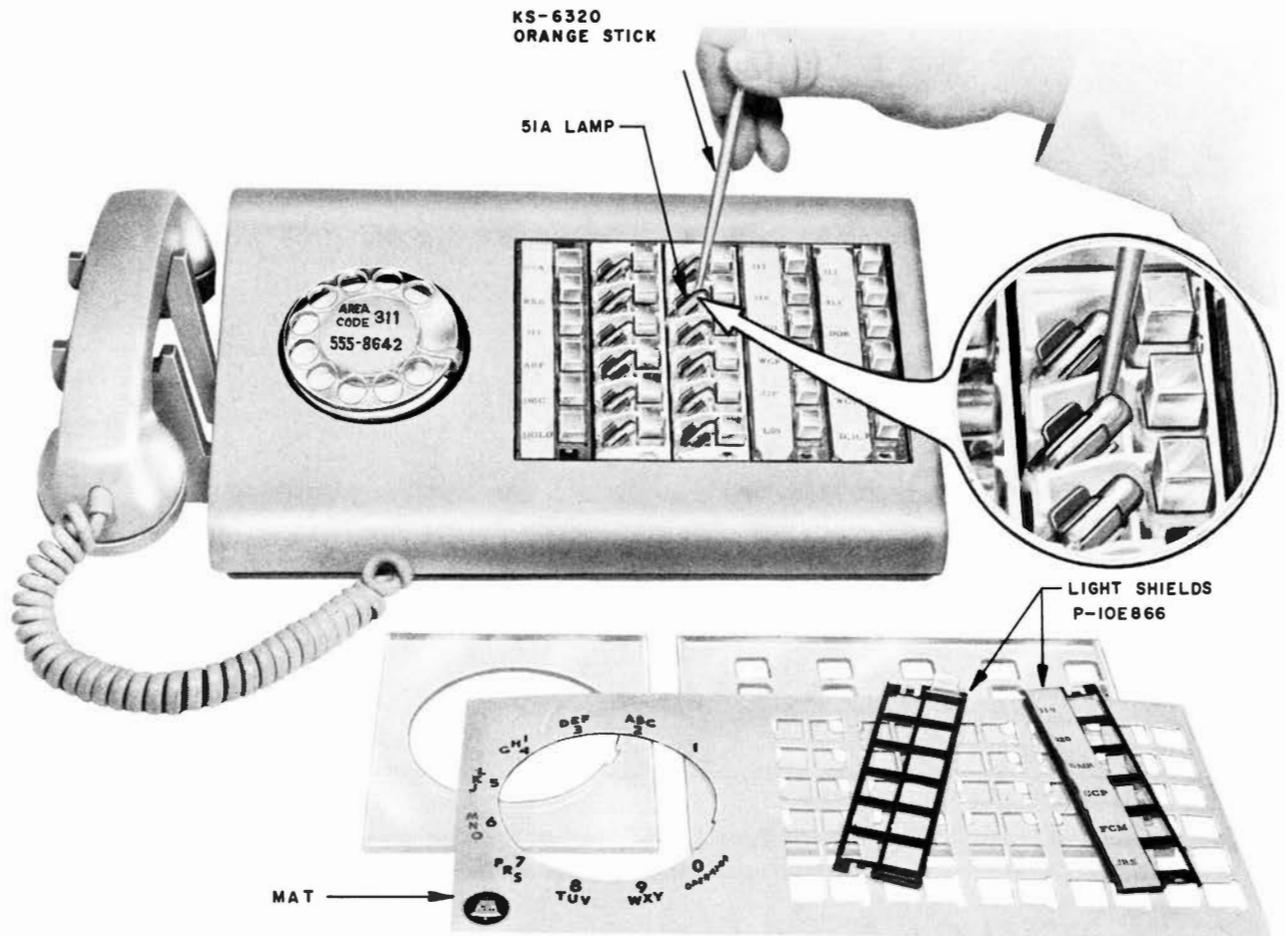
**3.01** Access to designation strips (E-4646) on 600- and 601-type sets can be obtained by lifting the clear plastic faceplates and mats off the clips that hold them on set (Fig. 5). On 630-, 631-, and 632-type sets remove bezel and faceplate assembly (Fig. 6). Lamps can be reached when light shields are removed.



**Fig. 5 — 601-Type Telephone Set Showing Removal of Faceplates**



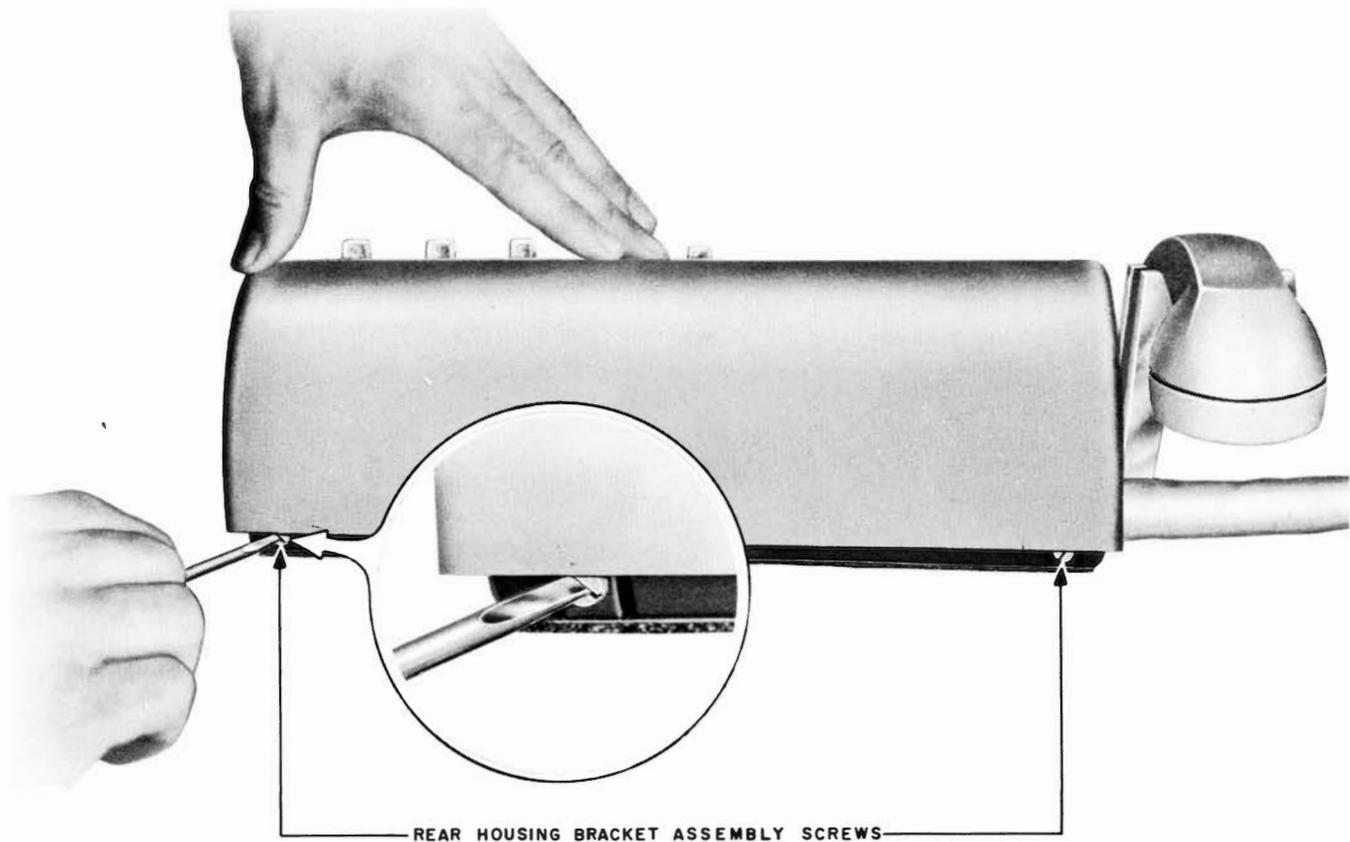
**Fig. 6 — 631-Type Telephone Set Showing Removal of Bezel, Faceplate, and Mat**



**Fig. 7 — 601-Type Telephone Set Showing Removal of a Lamp**

**3.02 To remove a lamp:**

1. Press down on base of lamp with a KS-6320 orange stick to tip up lamp capsule.
2. Insert tip of orange stick beneath the raised lamp capsule and lift lamp from its socket (Fig. 7).



**Fig. 8 — 601-Type Telephone Set Showing Method of Disengaging Rear Housing Brackets**

**3.03 To remove housing :**

1. Loosen screws at rear of telephone set base (Fig. 8).
2. Lift rear of housing.
3. Move housing forward to disengage front housing mounting hooks.

**3.04** All line pickup keys are mechanically interlocked within a 598A, 599A, or 599B key. These, in turn, are mechanically interlocked by a common pivot bar. Operation of any pickup button on any key releases any other operated button, as does the hold button on its upstroke. All keys are interconnected electrically through a chaining switch on each key unit; this disconnects subsequently positioned keys when any pickup is depressed (Fig. 9). This arrangement prevents connecting the telephone set to more than one line at a time. One locking-type button may be depressed in each row of keys, but only the one nearest the telephone circuit will be electrically connected to associated line equipment.

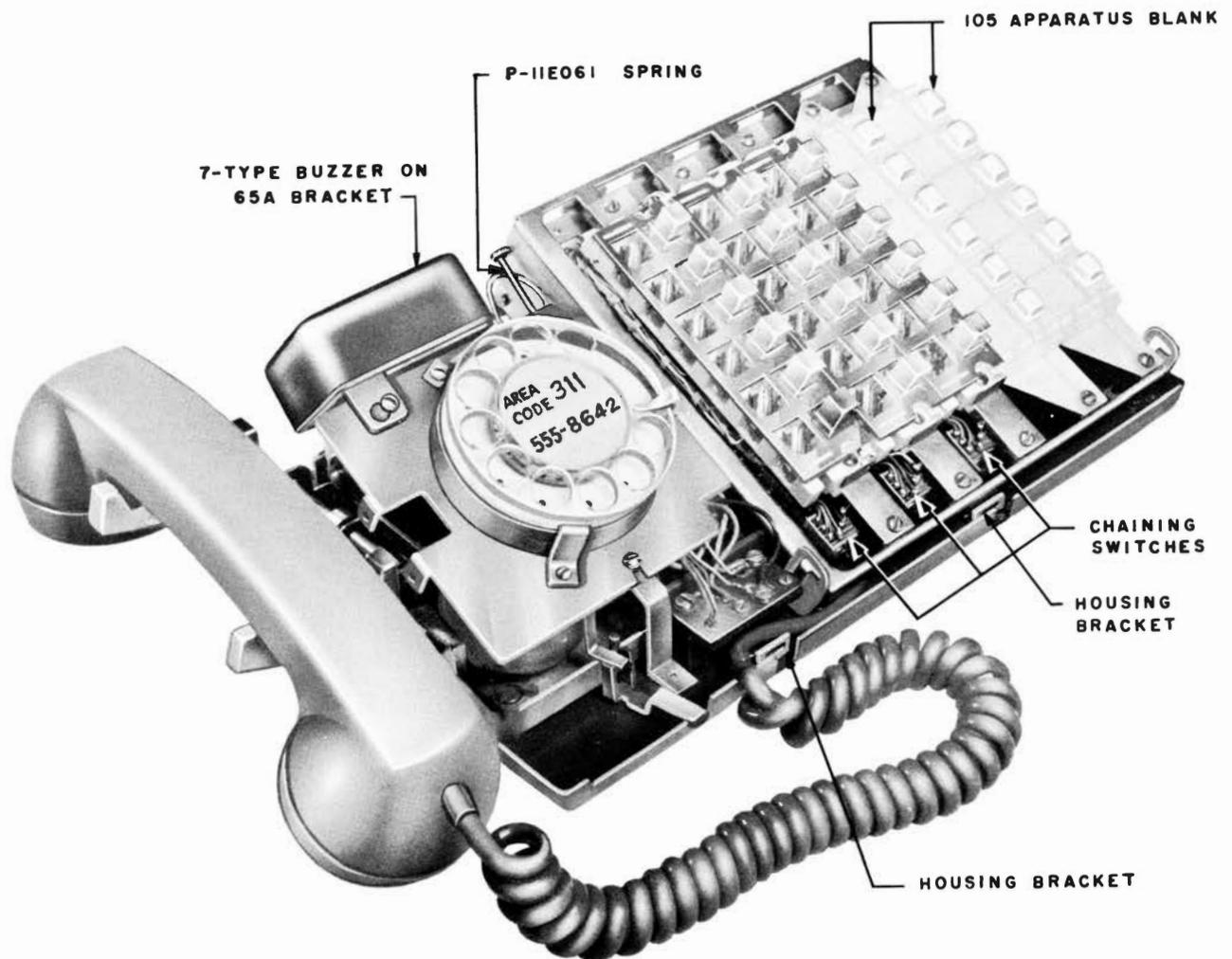
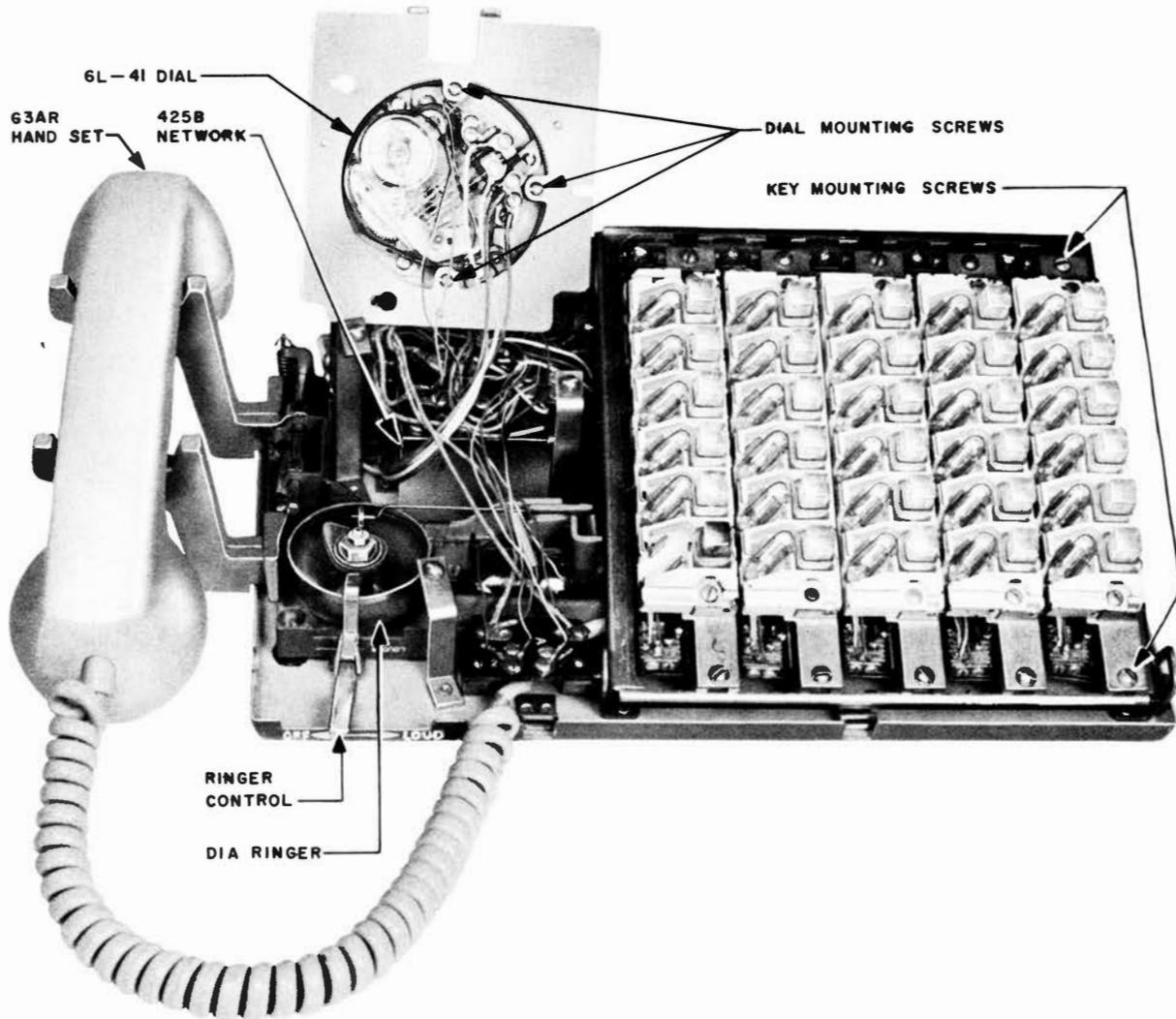


Fig. 9 – 601-Type Telephone Set, Housing Removed

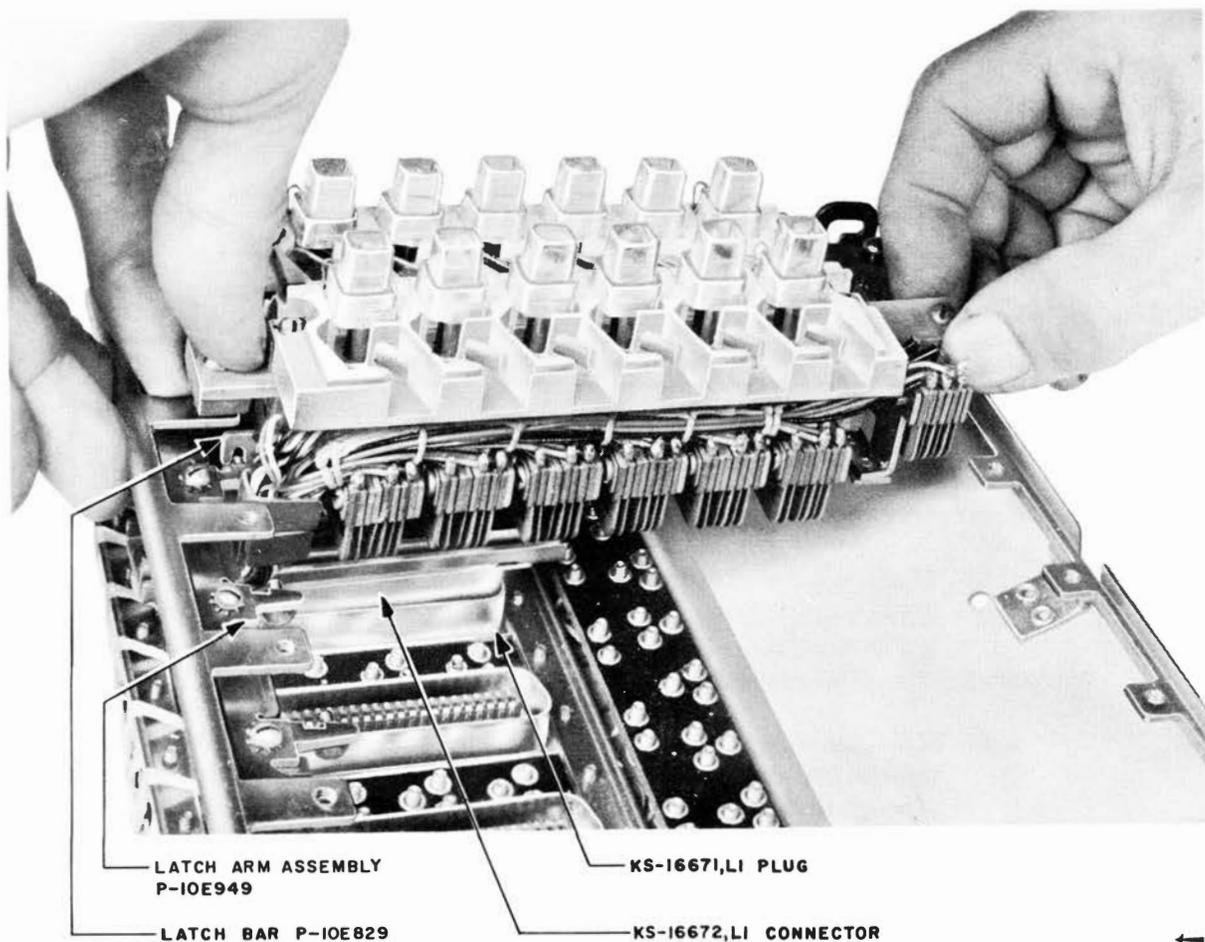
3.05 A P-12A858 blocking ring may be used to prevent operation of any ← unused pickup key. A packet of two blocking rings is supplied with each telephone set. To install, remove lamp block assembly and place ring over plunger to be blocked.



**Fig. 10 – 601-Type Telephone Set, Dial Mounting Plate Lifted**

**3.06 To remove dial:**

1. Remove faceplates and mats or bezel assembly and upper housing from telephone set.
2. Loosen screws from dial mounting plate (Fig. 9).
3. Move dial mounting to rear and lift (Fig. 9).
4. Disconnect dial cords from terminals.
5. Remove screws which hold dial to mounting plate (Fig. 10).



**Fig. 11 – 601-Type Telephone Set Showing Replacement of Key**

**3.07 To remove a key from telephone set:**

1. Remove faceplates and mats or bezel and upper housing of telephone set.
2. Loosen screws at top and bottom of key frame (Fig. 10).
3. Grasp both ends of key and pull up to disengage connector from the plug (Fig. 11).
4. Slide key toward back of set until front end of key clears mounting frame.
5. Raise front end of key clear of mounting frame.
6. Slide key forward and up to remove.

**TABLE B**  
**MOUNTING CORDS**  
**CONNECTOR CABLES**

Telephone Set		Mounting Cord		Number of Conductors	Length Feet
Standard	Mfr Disc.	Standard	Mfr Disc.		
630	600A	D120C	D120A, B	120	8
632	600B	D94A		94	
631	601A	D200F	D200A, B	200	
<b>Connector Cables</b>					
630	600A	A75A	M150A	150	50 or 100
632	600B				
631	601A	A100D	M200A	200	

**3.08** When installing separately ordered 598A or 599A keys, remove latch bar spring from end of key. This spring is necessary only when keys are used in 6050-series key installations.

**3.09** When installing separately ordered keys in sets having a single bezel, remove and discard any P-10E865 wire clips found in place. When a 2-piece faceplate is used, the wire clips must be in the top and bottom of the key unit being placed. Wire clips may be removed from key being replaced and reused. To replace a key in telephone set:

1. Hold key by both ends of frame (Fig. 11).
2. Lower upper end of key into key well.
3. Slide key toward rear of well until lower end clears mounting frame and goes into key well.
4. Move key into position to engage latch bar, plug, and connector. Push firmly into place.
5. Tighten screws at front and rear of key frame.
6. Test key for proper operation.
7. Reassemble telephone set.

**3.10** The 600A-, B-, 601A-, 630-, 631-, and 632-type sets are supplied with 8-foot plastic-jacketed mounting cords of matching color (see Table B). A metal or plastic frame is a part of the mounting cord at the telephone set end. In the frame are mounted 50-point male connectors, a terminal strip for each key position, and a terminal field with tapped eyelets. Conductors provided with spade tips are fastened by screws at the tapped eyelets or are reserved for circuit changes required by service options. Opposite end of mounting cord terminates in a 50-point male connector for each key position in the telephone set.

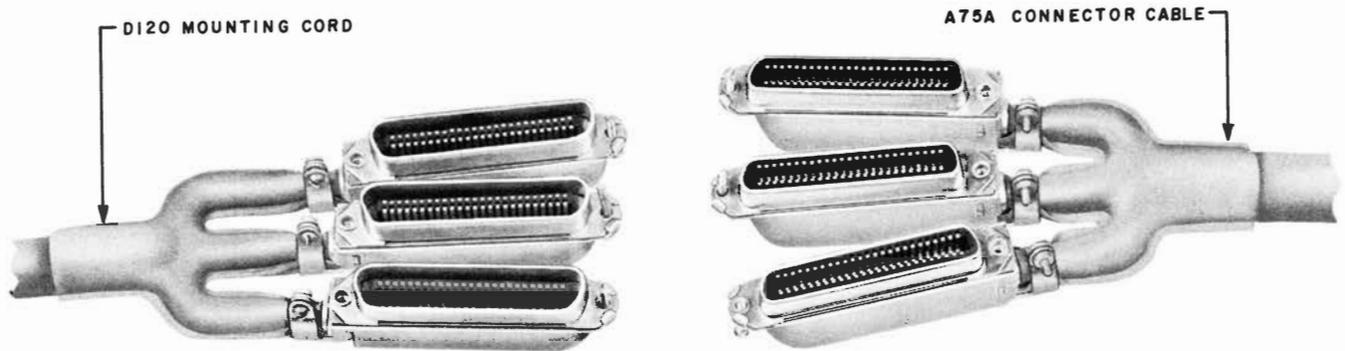


Fig. 12 — Mounting Cord and Connector Cable

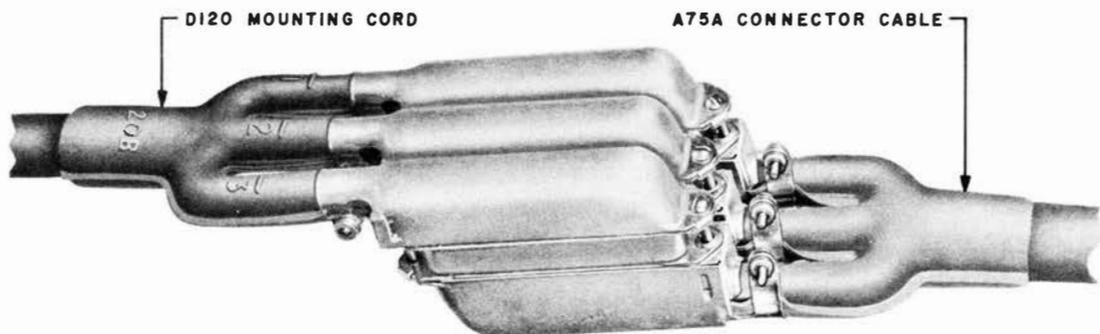


Fig. 13 — Mounting Cord and Connector Cable, Connected

**3.11** Connector cables A75A or A100A are used between the set mounting cord and key system apparatus cabinet or distribution terminal. Cord plug and running cable receptacle (Fig. 12 and 13) can be housed in a Wiremold 2857T terminal box (see section entitled Overfloor Ducts, Identification and Installation).

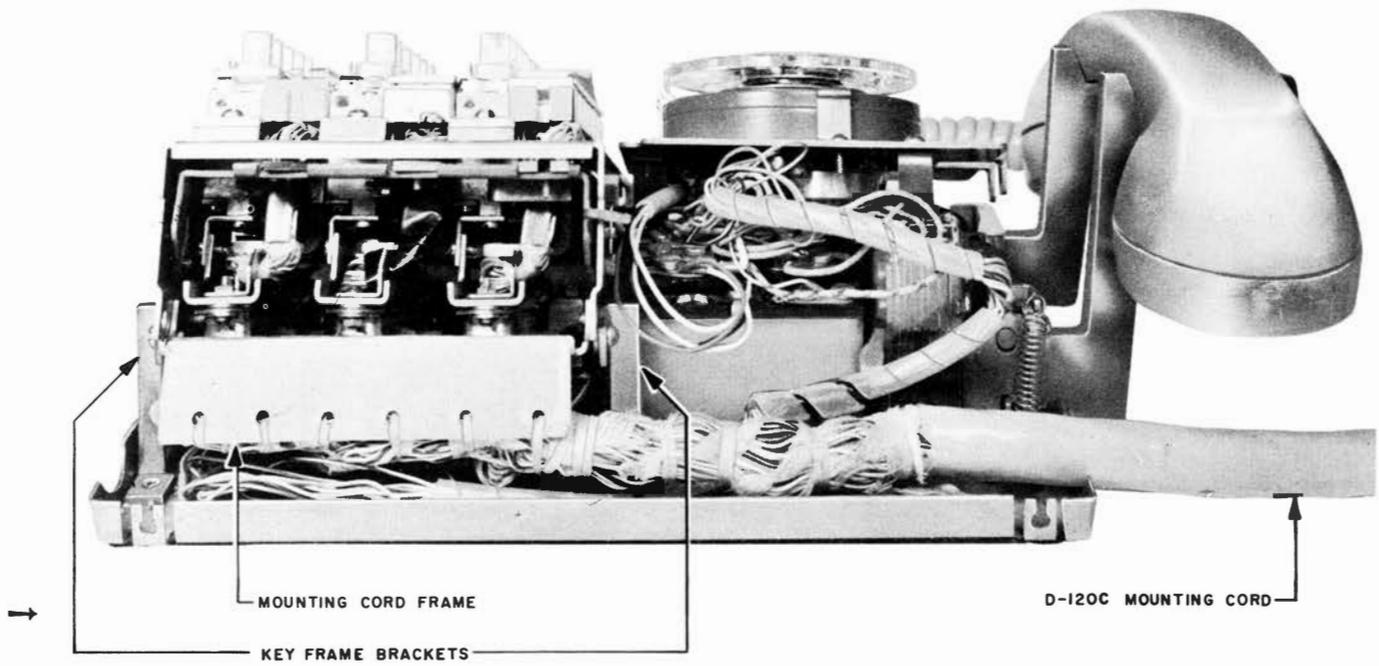


Fig. 14 — 600-Type Telephone Set, Housing Removed, Rear View

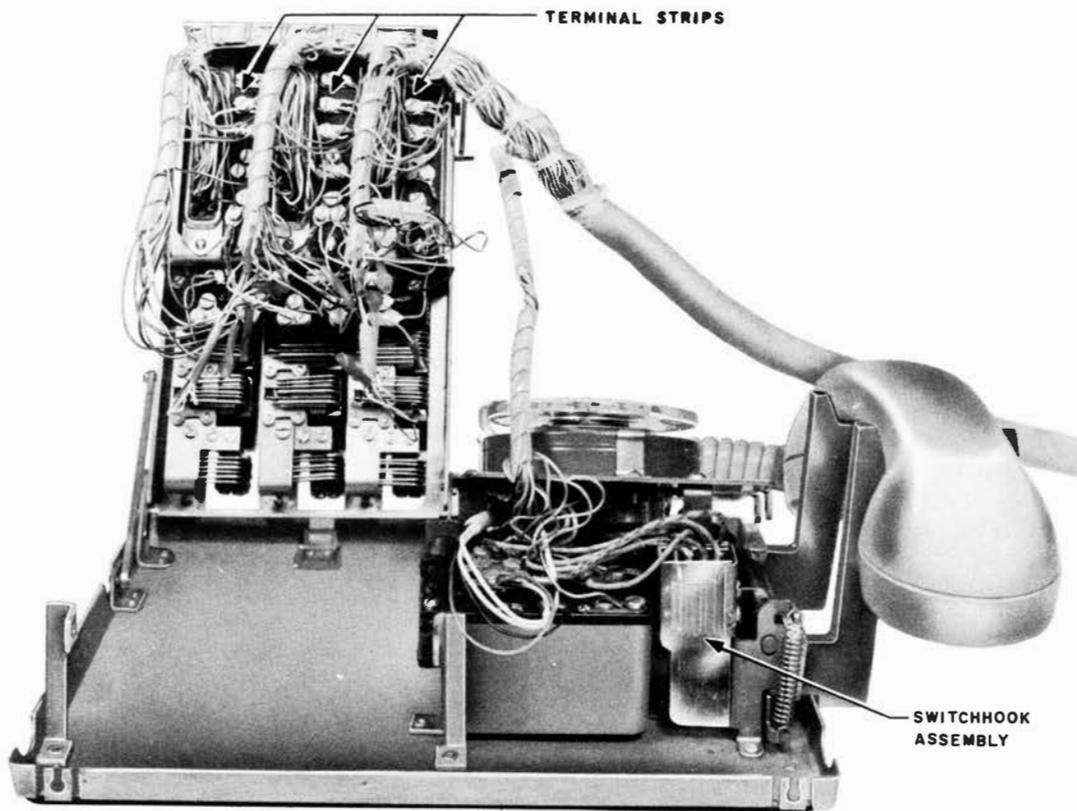
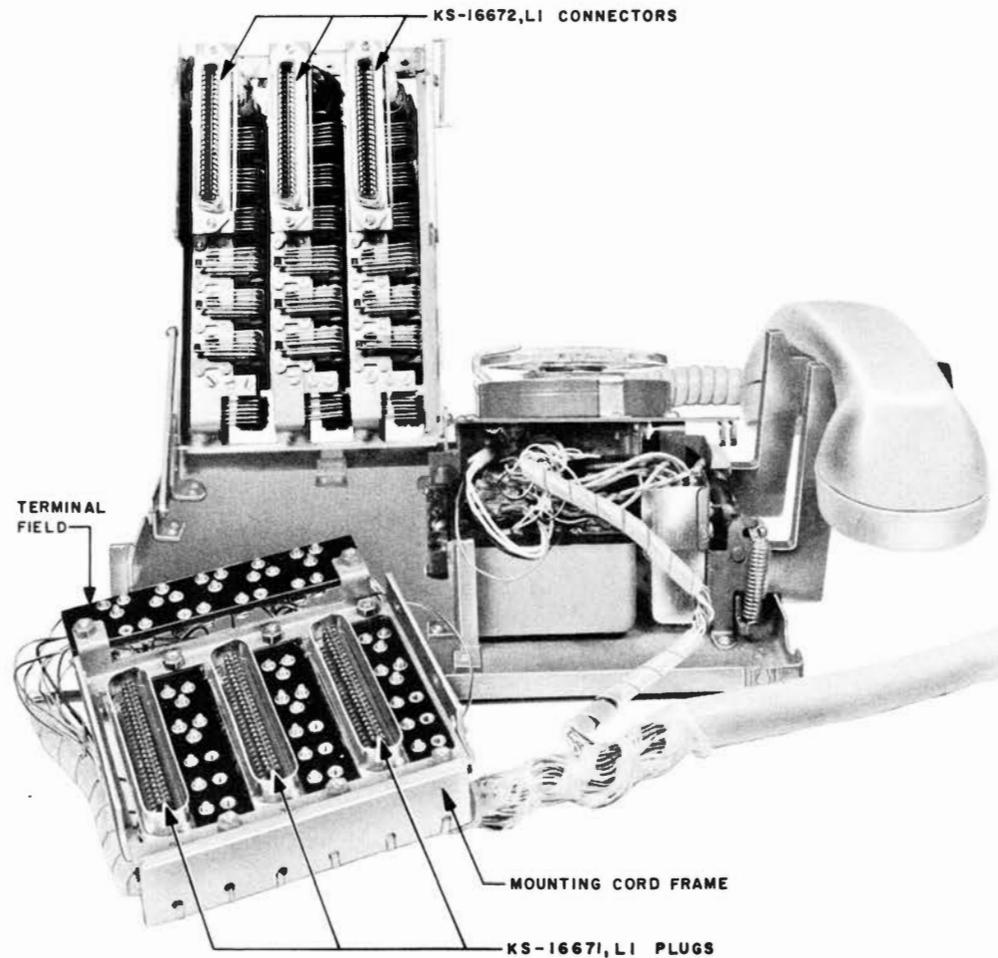


Fig. 15 — 600-Type Telephone Set, Key Frame Lifted, Rear View



**Fig. 16 – 600-Type Telephone Set Showing Removal of Cord Frame**

**3.12** To remove mounting cord assembly:

**600 and 601 Types**

1. Remove faceplates, mats, and housing from telephone set.
2. Remove screws from right and left key frame brackets (Fig. 14).
3. Raise key frame (Fig. 15).
4. Remove dial mounting plate.
5. Disconnect mounting cord leads which terminate on network, ringer, and dial.
6. Remove four screws which secure the cord assembly frame (Fig. 16).
7. Remove cable clamp.
8. Remove mounting cord assembly.

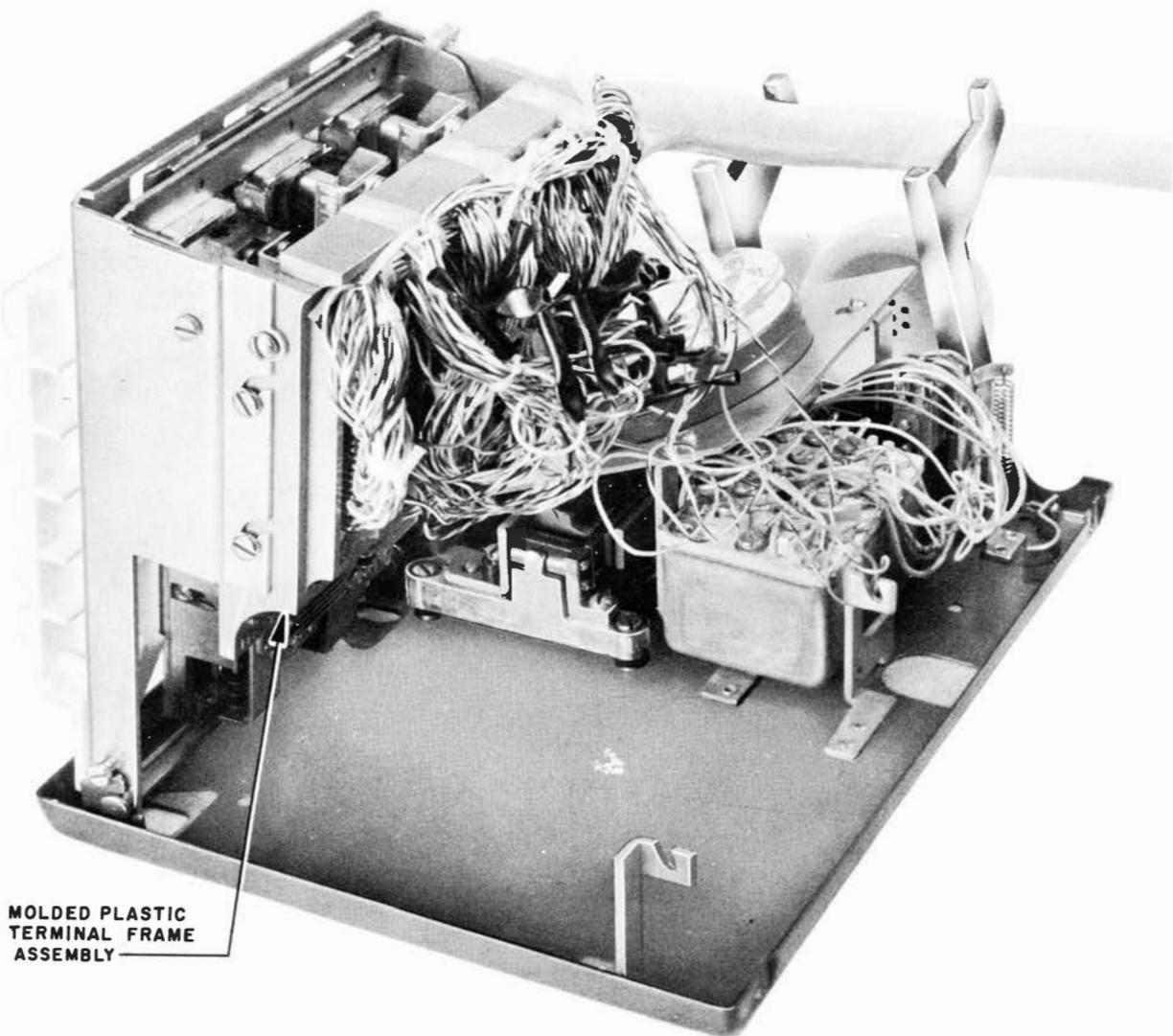


Fig. 17 — 630-Type Telephone Set, Key Frame Lifted

630, 631, and 632 Types

1. Remove bezel assembly and housing.
2. Remove mounting cord clamp.
3. Loosen screws on sides of key frame (Fig. 17).
4. Raise key frame.
5. Remove dial mounting plate.
6. Disconnect leads on network and ringer.
7. Remove screws on right and left sides of key frame (Fig. 18).
8. Remove mounting cord frame by pulling in a downward direction to disengage amphenol plugs.

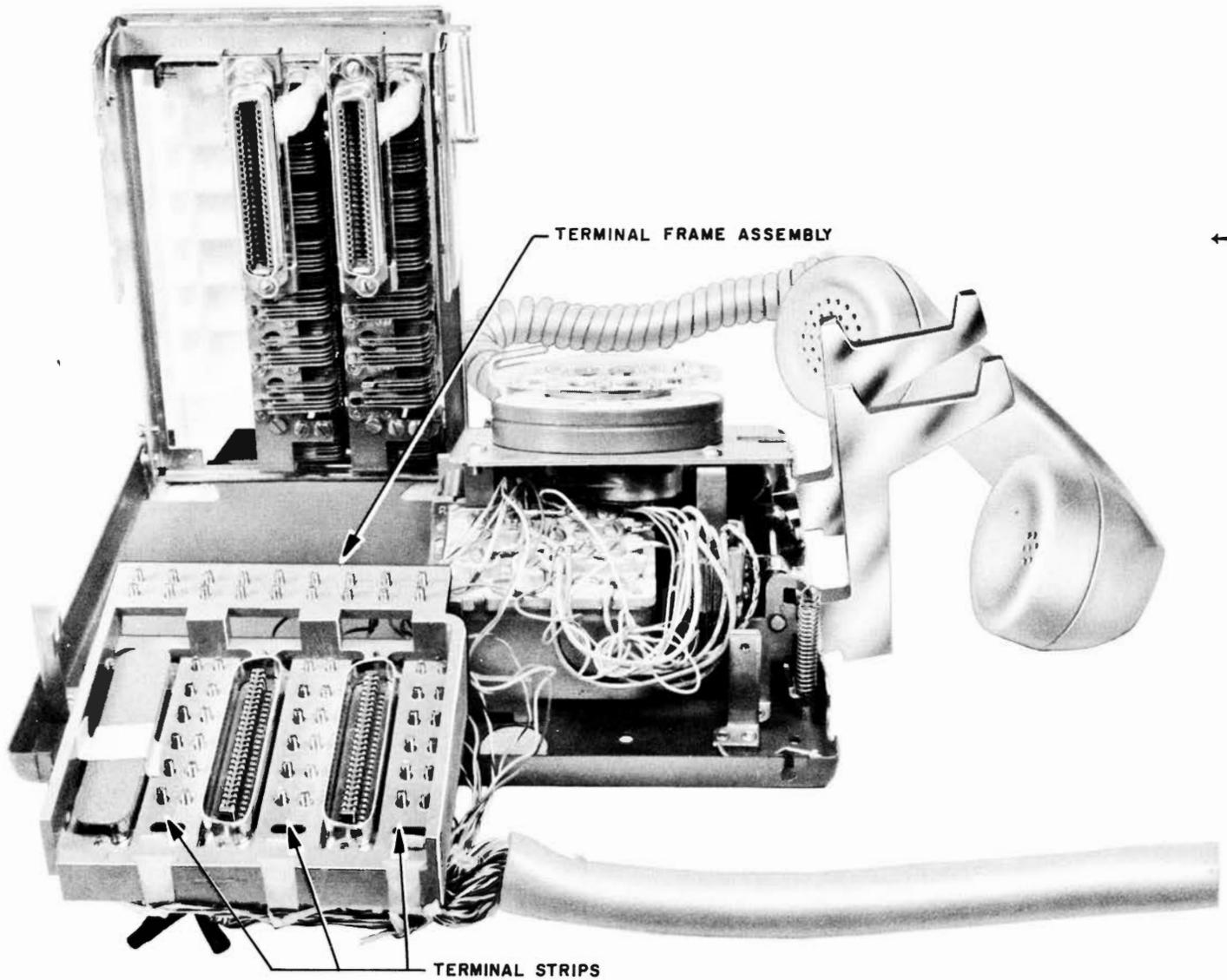


Fig. 18 — 630-Type Telephone Set Showing Removal of Cord Frame

**3.13** To replace mounting cord assembly, reverse procedure in 3.12. Check set for proper operation.