

## K-TYPE HANDSETS

### IDENTIFICATION, CONNECTIONS, AND MAINTENANCE

#### 1. GENERAL

**1.01** This section contains information on the K-type handsets.

**1.02** This section is reissued to replace Fig. 5, 6, 7, 9; change Fig. 3, 4, 8, 10; and add Fig. 11, 12. Revision arrows are used to emphasize the more significant changes.

**1.03** The K2A, K2C, K2D, K6A, and K6C are new repairable modular handsets which replace the manufacture discontinued (MD) K1A, K1C, and K1D handsets. The K2A handset is intended for use with the 900-, 910-, 911-, 921-, 930-, 2900-, 2910-, 2911-, 2921-, and 2930-type DESIGN LINE® decorator telephone sets. The K2C handset is intended for use with business and 960A01M and 2960A01M 16 button TOUCH-A-MATIC® telephone sets. The K2D is intended for use with business telephone sets in environments where background noise is a problem. The K6A and K6C are impaired hearing handsets. The K6A is used in place of the K2A, and the K6C is used in place of the K2C.

#### 2. IDENTIFICATION

**2.01** The K1A (MD), K2A, K1C (MD), K2C, K1D (MD), K2D, K6A, and K6C are basically shaped alike. Both the receiver and transmitter ends of the handset are square shaped enclosures with rounded corners (Fig. 1). The K1A (MD), K1C (MD), and K1D (MD) handsets were sealed (nonrepairable). Current K-type handsets can be disassembled and repaired. A single screw secures the handset shell to the chassis and deck assembly. Access to this screw can be obtained through a hole in the deck cover, located in the hanger indentation under the receiver. This hanger is used on wall telephone applications. A jack (616K-type) is located under the transmitter (Fig. 2). The H4DU handset cord which plugs into the jack must be ordered separately. Inside the handset is an inner chassis which holds the jack assembly, receiver, and transmitter (Fig. 2). An amplifier

printed circuit board is clipped to the inner chassis on K6-type handsets. This circuit board contains a volume control potentiometer (which protrudes through the deck cover), a transistorized amplifier, and a polarity guard (Fig. 7). The K1A (MD) and K1D (MD) do not have the telephone logo on the handset. The K2A and K6A contain the manufacture marking on the handset (Fig. 5). The K1C (MD), K2C, K2D, and K6C all have the BELL SYSTEM PROPERTY NOT FOR SALE logo on the handset (Fig. 1 and 8). ♦The K2D is marked in the hanger indentation (Fig. 11). ♦The K2- and K6-type handsets have a U-type receiver which is compatible with hearing aid pickups. The K1-type (MD) handsets have an L-type receiver which is not compatible with hearing aid pickups.

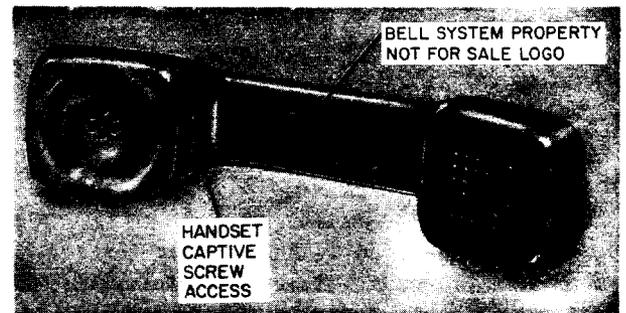


Fig. 1—K2C Modular Handset

**2.02** Order basic handset as follows (see Note):

- Set, Hand, K2A (refer to Table A for color suffix)
- Set, Hand, K2C (refer to Table A for color suffix)
- Set, Hand, K2D (refer to Table A for color suffix)

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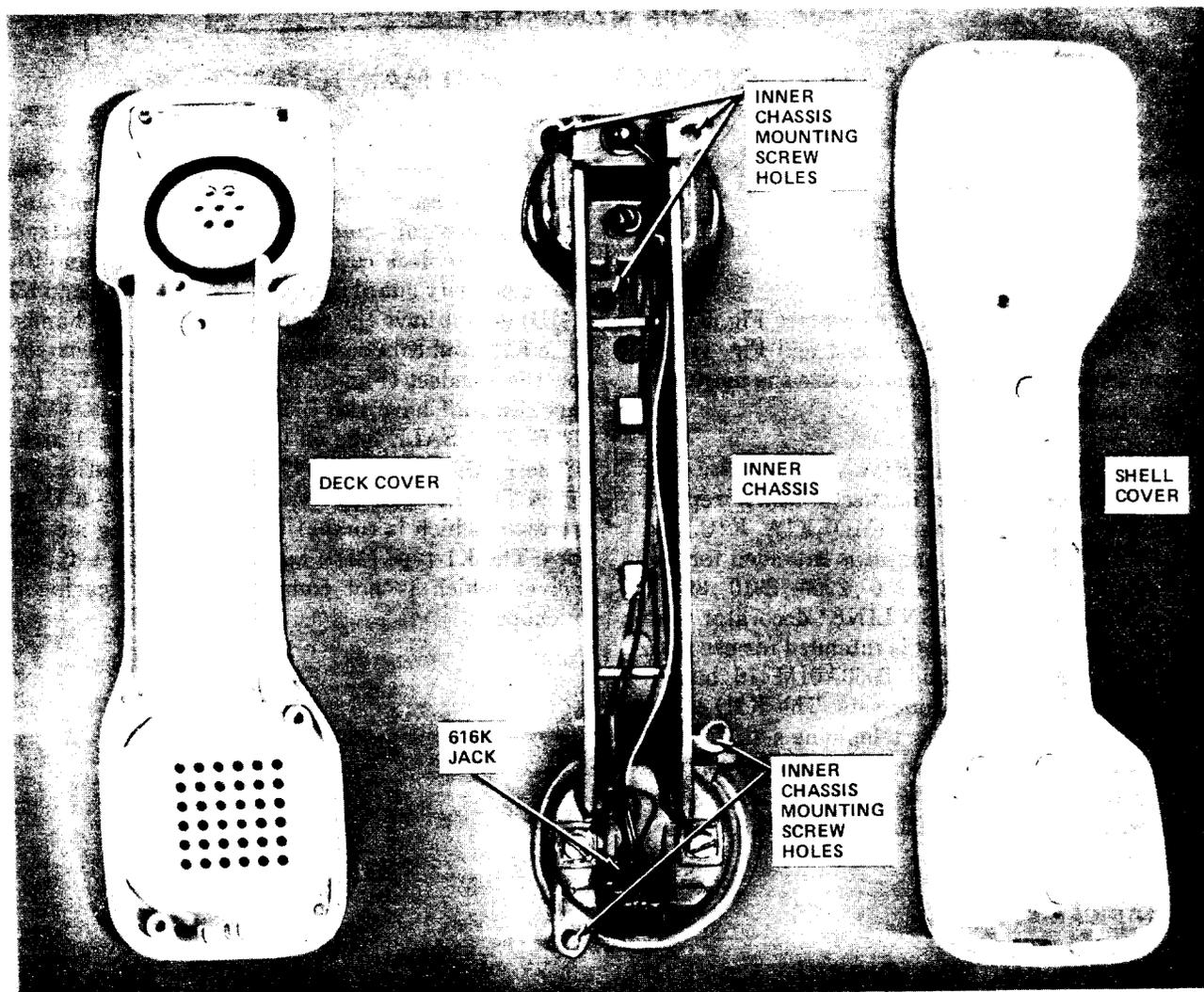


Fig. 2—K2A and K2C Modular Handsets

- Set, Hand, K6A (refer to Table A for color suffix)
- Set, Hand, K6C (refer to Table A for color suffix),

**Note:** The H4DU (refer to Table A for color suffix) handset cord must be ordered separately.

**2.03** Order replaceable components as follows:

- Unit, Transmitter, (T1)

- Unit, Receiver (U5)
- Jack Assembly 616K (K2A and K2C only).

**2.04** Design features are as follows:

(a) **K1A (MD) handset:**

- Light weight
- Sealed (nonrepairable)

- L-type receiver (not compatible with hearing aid pickups)
  - No logo
  - Available in eight different colors (see Table A).
- (b) **K1C (MD) handset:**
- Standard weight
  - Sealed (nonrepairable)
  - Has BELL SYSTEM PROPERTY NOT FOR SALE logo
  - Available in ivory (-50) only.
- (c) **K1D (MD) handset:**
- Standard weight
  - Sealed (nonrepairable)
  - No logo
  - Available in black (-03) only.
- (d) **K2A handset:**
- Standard weight
  - Repairable
  - U-type receiver (compatible with hearing aid pickups)
  - Has manufacture marking
  - Available in eight different colors (see Table A).
- (e) **K2C handset:**
- Standard weight
  - Repairable
  - U-type receiver (compatible with hearing aid pickups)
  - Has BELL SYSTEM PROPERTY NOT FOR SALE logo (Fig. 1)
  - Available in ivory (-50) only.
- (f) **K2D handset:**
- Standard weight
  - Repairable

◆TABLE A◆

**HANDSET COLORS AND SUFFIX**

COLORS	SUFFIX	HANDSET							
		K1A (MD)	K1C (MD)	K1D (MD)	K2A	K2C	K2D	K6A	K6C
Black	-03	X		X	X		X	X	
Ivory	-50	X	X		X	X	X	X	X
White	-58	X			X			X	
Yellow	-93	X			X			X	
Brown	-104	X			X			X	
Dk. Green	-105	X			X			X	
Lime Green	-106	X			X			X	
Blue	-115	X			X			X	

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- U-type receiver (compatible with hearing aid pickups)
- Has BELL SYSTEM PROPERTY NOT FOR SALE logo
- Has K2D marking in hanger indentation (Fig. 11)
- Available in black (-03) and ivory (-50) only
- Has additional receiver gaskets to reduce background noise leakage through handset (Fig. 12).

### (g) **K6A handset:**

- Standard weight
- Repairable
- U-type receiver (compatible with hearing aid pickups)
- Has manufacture marking (Fig. 5)
- Available in eight different colors (see Table A)
- Contains volume control potentiometer wheel (see Note).

### (h) **K6C handset:**

- Standard weight
- Repairable
- U-type receiver (compatible with hearing aid pickups)
- Has BELL SYSTEM PROPERTY NOT FOR SALE logo (Fig. 8)
- Available in ivory (-50) only
- Contains volume control potentiometer wheel (see Note).

**Note:** The volume control potentiometer in the center of the handle (K6A and K6C) adjusts

the loudness setting of the receiver so that the handset may be used by persons with different degrees of hearing impairment and people with normal hearing.

## 3. CONNECTIONS

**3.01** Connect the K-type handsets by inserting the handset cord (H4DU) into the handset jack. Place the other end of cord into the jack located in the telephone base. Care should be taken to insure that plug retaining clips lock.

**3.02** Refer to Fig. 4 for electrical schematic diagram of K1A (MD), K2A, K1C (MD), K2C, K1D (MD), and K2D handsets.

**3.03** Refer to Fig. 10 for electrical schematic diagram of K6A and K6C handsets.

**3.04** Test the K-type handsets for both transmission and reception. The K6-type handset should be tested throughout the full range of the volume control.

## 4. MAINTENANCE

**4.01** The repairable handsets can be disassembled by removing the handset cord. Loosen the captive screw which holds the handset together by inserting a KS-6854 screwdriver through the access hole located in the hanger indentation (Fig. 6). Remove the shell cover exposing the internal plastic chassis (Fig. 9). Access to the transmitter and receiver can be obtained by removing the five screws holding the chassis to the deck cover (Fig. 2 and 9).

**4.02** The transmitter in the K-type handsets is held to the inner chassis by a plastic snap ring (Fig. 7).

**4.03** The receiver terminal screws serve a dual purpose in securing the receiver to the inner chassis and making the necessary electrical connections.

**4.04** The 616K jack assembly can be replaced by unsnapping the assembly from the inner chassis and replacing it (K2A and K2C only) with a new jack and making the necessary electrical connections.

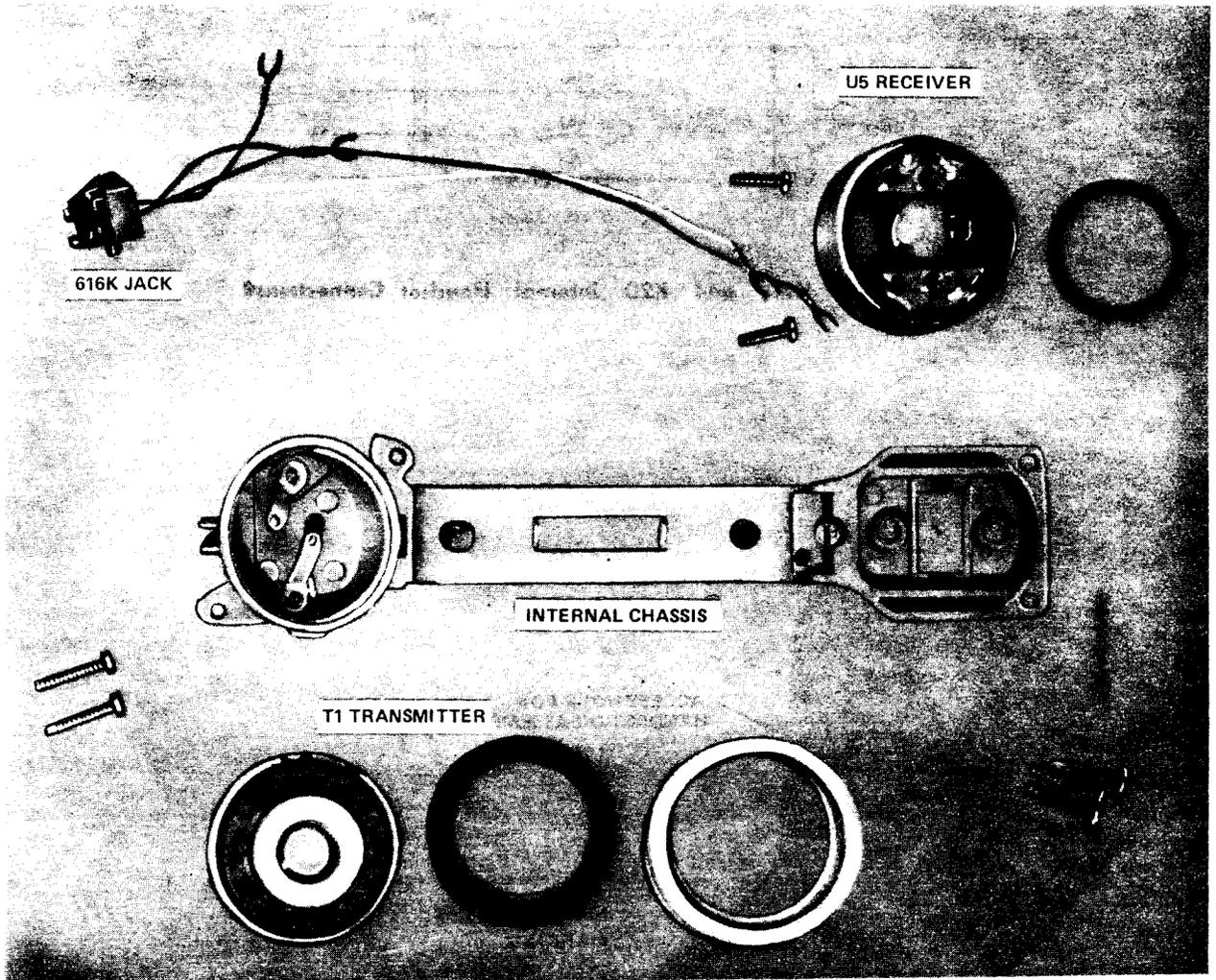


Fig. 3—K2A and K2C Modular Handset Breakdown of Inner Chassis

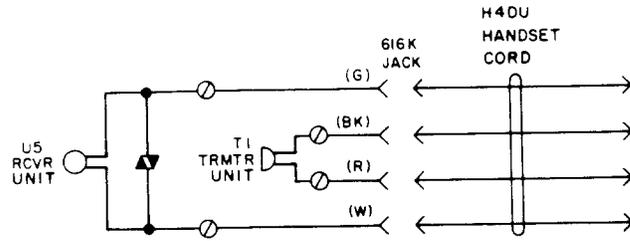


Fig. 4—K2A, K2C, and K2D Internal Handset Connections

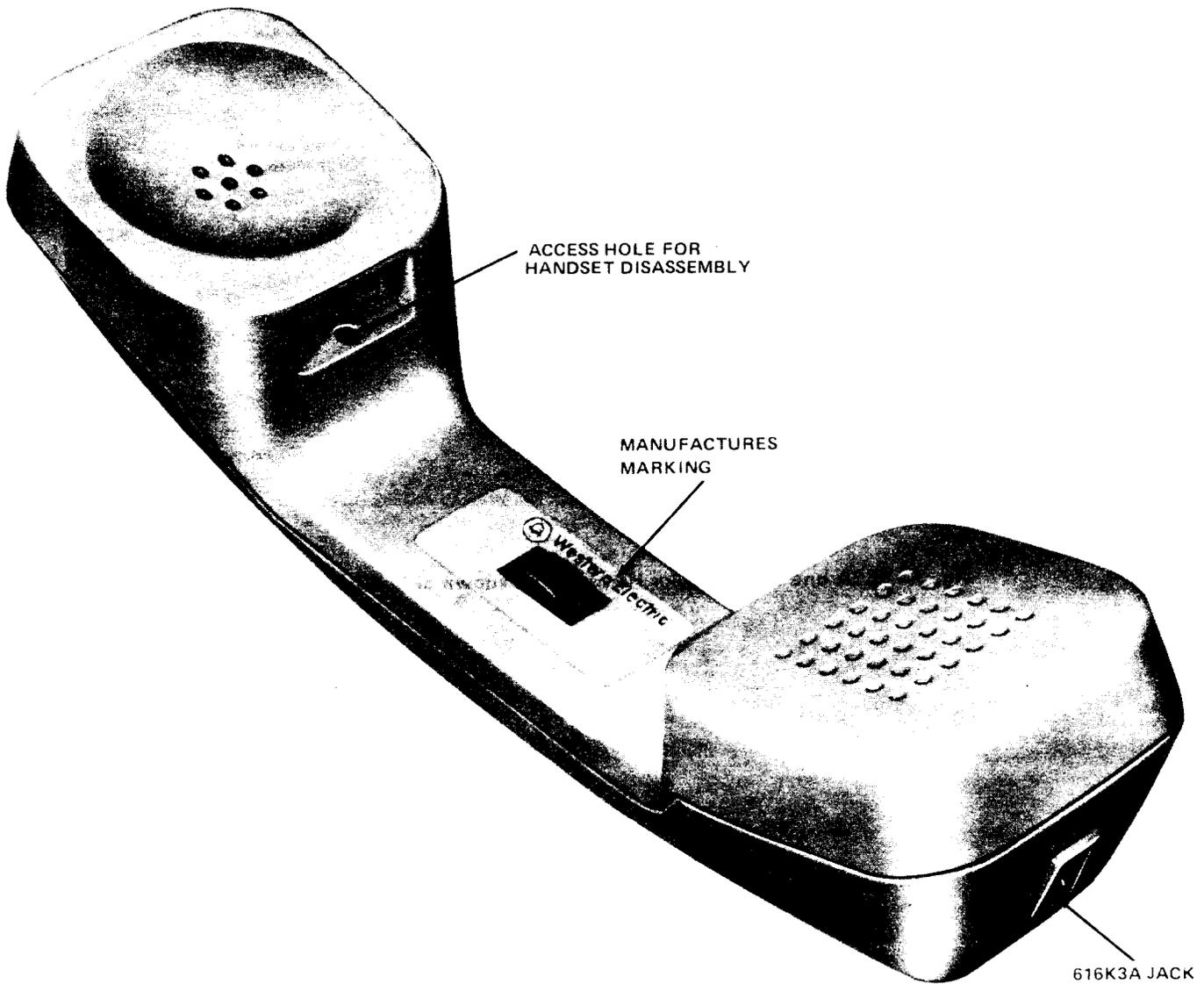


Fig. 5—K6A Impaired Hearing Handset

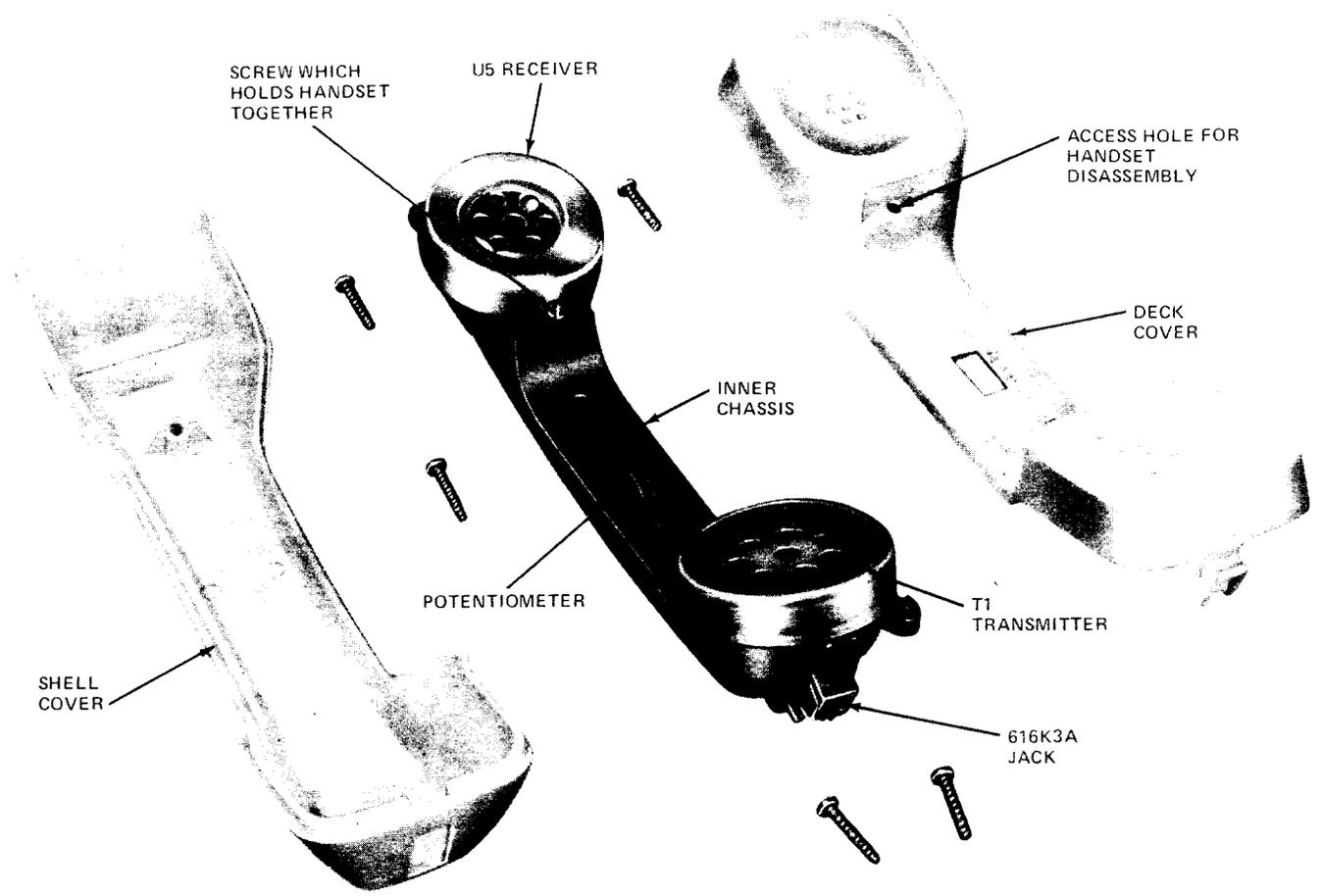


Fig. 6—K6-Type Breakdown of Impaired Hearing Handset

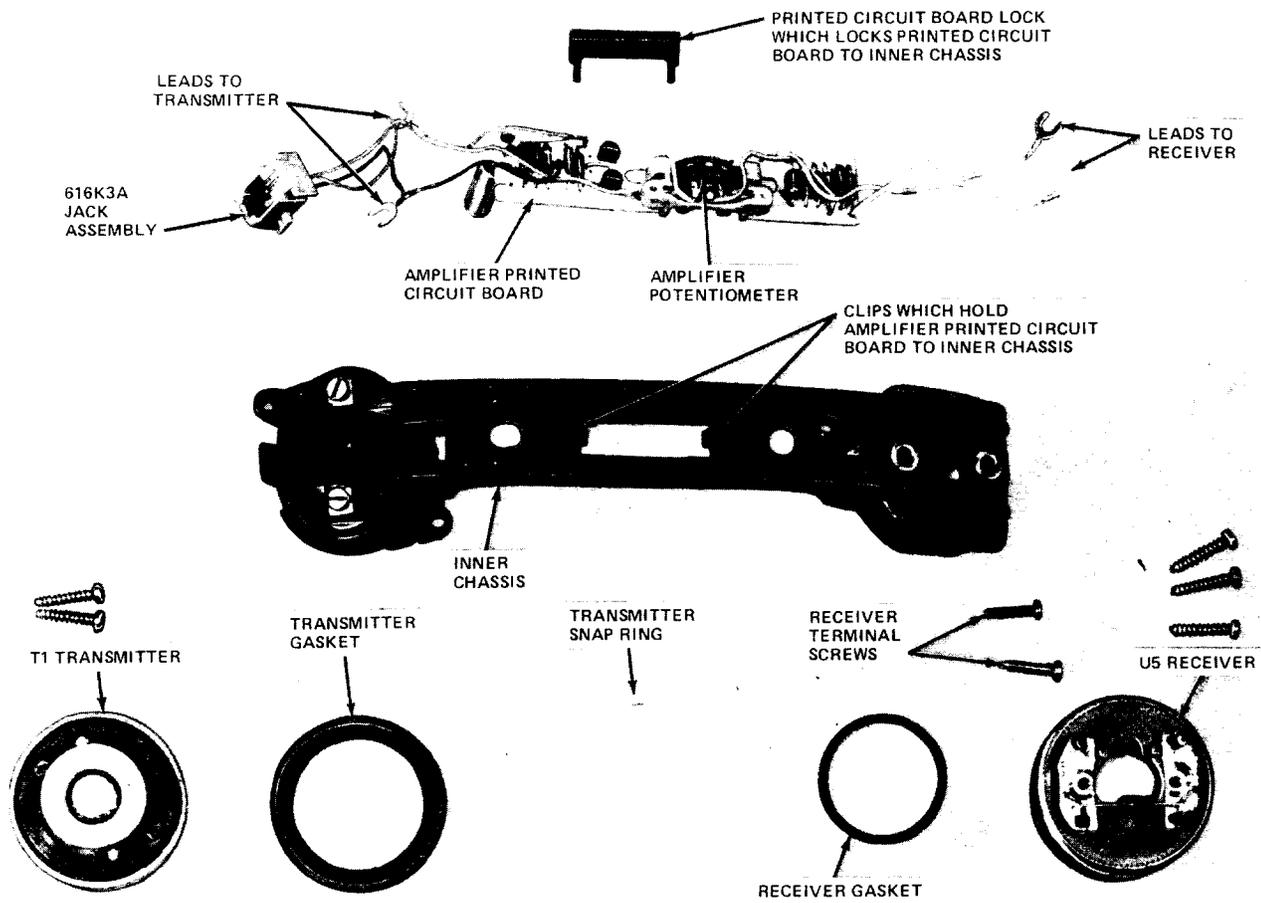


Fig. 7—K6-Type Breakdown of Impaired Hearing Handset Inner Chassis

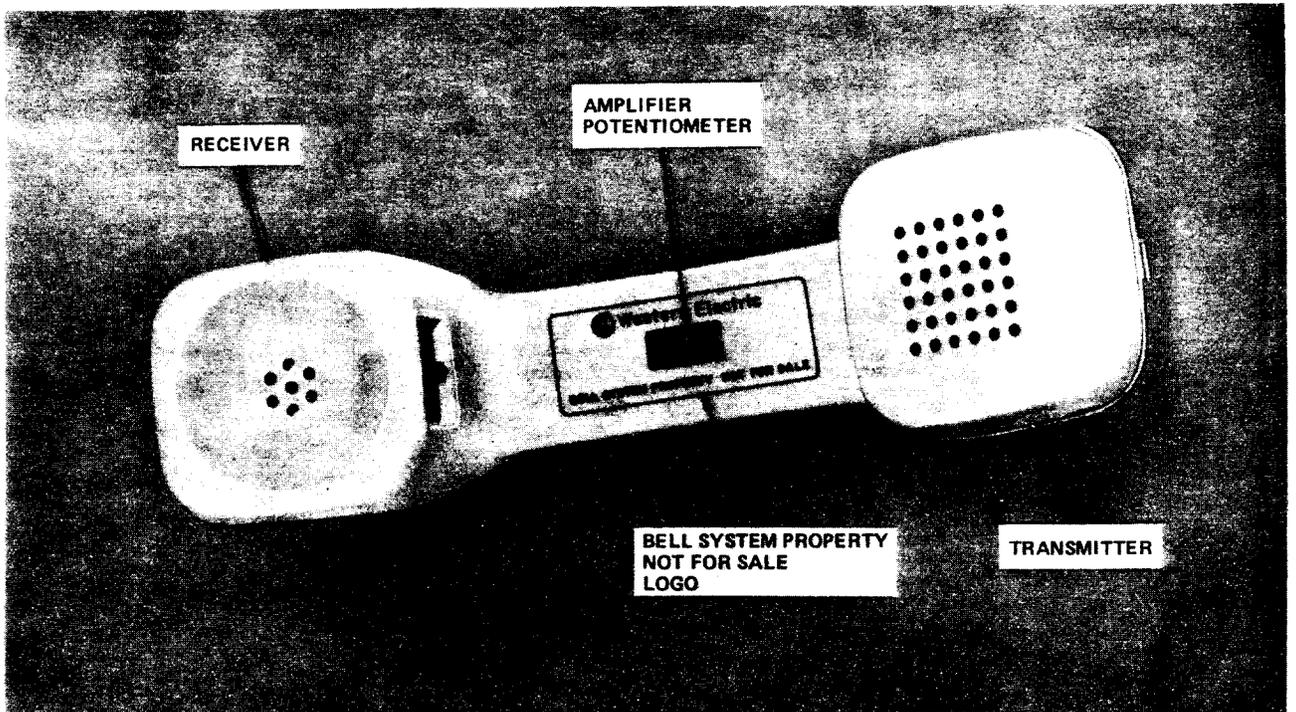


Fig. 8—K6C Impaired Hearing Handset

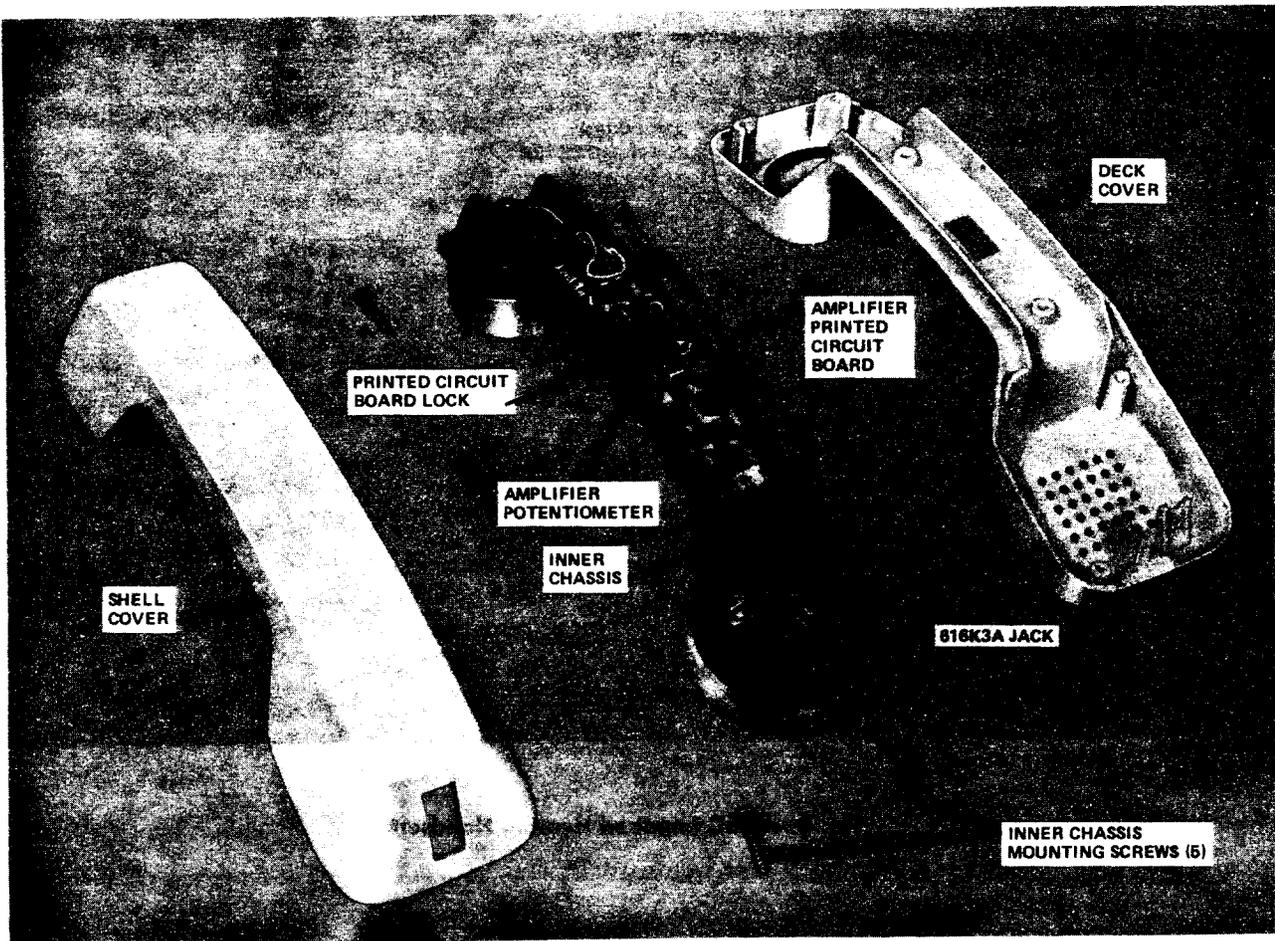


Fig. 9—K6-Type Breakdown Showing Rear of Handset

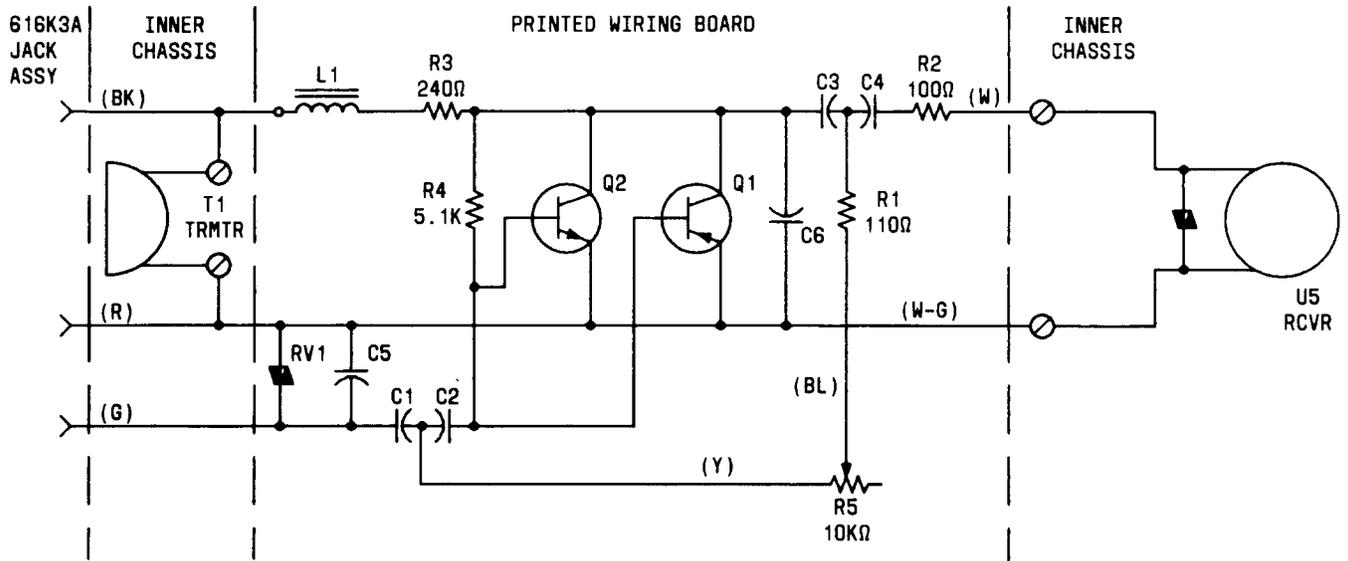


Fig. 10—▶ Schematic Diagram of K6-Type Impaired Hearing Handset

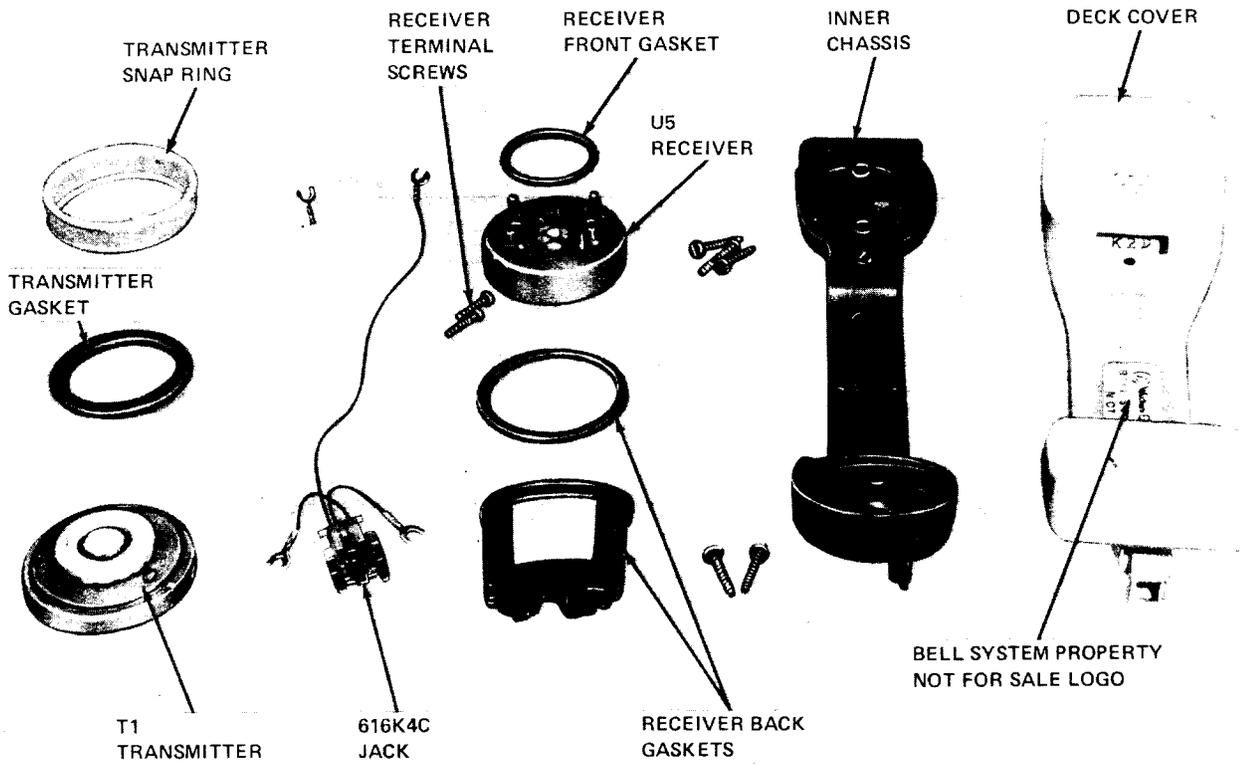


Fig. 11—K2D Breakdown of Inner Chassis

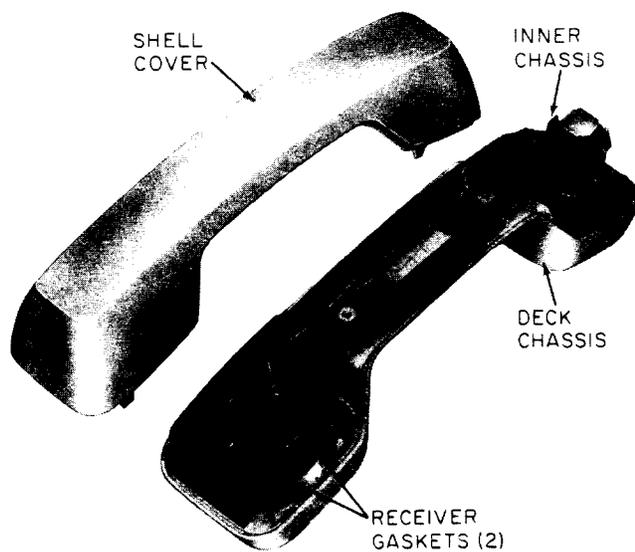


Fig. 12—K2D Modular Handset Showing Location of Receiver Gaskets