

## CODED JACKS—450 THROUGH 474

### DESCRIPTION

#### 1. GENERAL

**1.01** This section lists and illustrates coded jacks within the part or type number range of 450 through 474, used for the maintenance and operation of equipment in central offices.

**1.02** The information provided in this section was previously shown in Section 032-511-101, Issue 3. In addition, the 458CM jack is being added. The Equipment Test List is not affected.

#### 2. DESCRIPTION OF CODED JACKS

**2.01 451A:** This multicontact jack (Fig. 1) is used with the 306A plug. This jack consists of an insulating block provided with three prongs - each having one end used as a terminal.

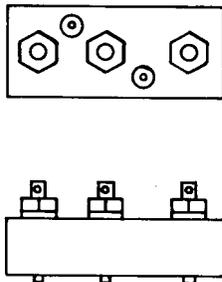


Fig. 1—451A Jack

**2.02 452A:** This single-mounted jack (Fig. 2) is used in the panel of the patching cord test set per J94711A. This jack is also equipped with No. 2 metal contacts.

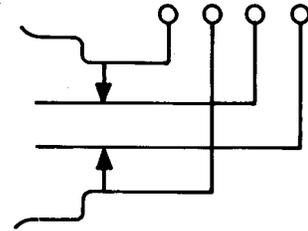


Fig. 2—452A Jack

**2.03 454A and C:** These single-mounted jacks (Fig. 3) are used with the 310 or similar-type plugs.

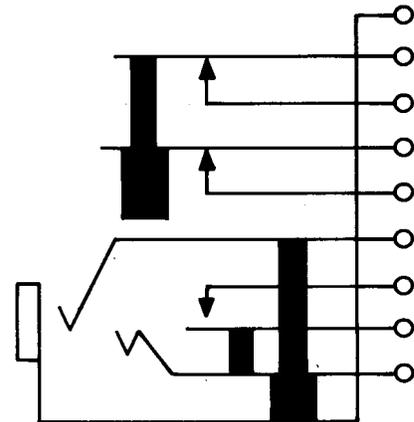


Fig. 3—454A or C Jack

- (a) **454A:** This jack is to be mounted with the springs in a vertical plane.
- (b) **454C:** This jack is to be mounted only in a 252A jack mounting inasmuch as the height of the springs pileup will not permit mounting by

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means of a screw inserted from the rear of the mounting lug.

**2.04 455A:** This multicontact jack (Fig. 4) is used in the J94711 patching cord test set for testing cords equipped with the 351-type plugs in Crossbar Dial Systems.

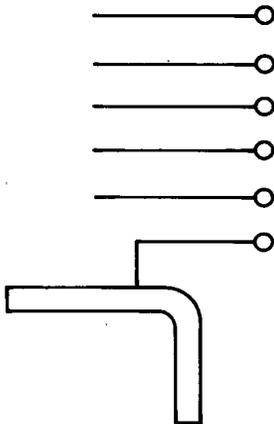


Fig. 4—455A Jack

**2.05 458A, C, and CM:** These single-mounted jacks (Fig. 5) are used with the 310 or similar-type plugs.

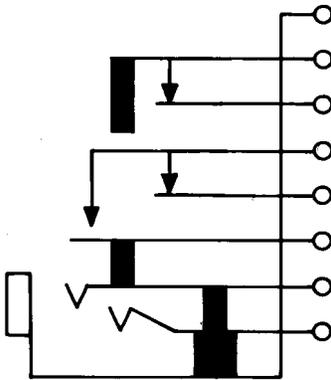


Fig. 5—458-Type Jack

(a) **458A:** This jack is to be mounted with the springs in a vertical plane.

(b) **458C:** This jack is to be mounted with the springs in a horizontal plane in a jack mounting inasmuch as the height of the spring pileup will not permit mounting by means of a screw inserted from the rear of the mounting plug.

(c) **458CM:** This jack is equipped with mechanically wrapped terminals. This jack is to be mounted with the springs in a horizontal plane.

**2.06 461A:** This multicontact jack (Fig. 6) consists of a wooden strip on which there are mounted 16 pairs of contact springs insulated from each other. The terminals are arranged for mechanical connections. This jack is also used with the 333A plug in J32311 connectors and connector shelves in the 355A dial office. The 461A jack is furnished with springs that are adjusted but can be adjusted when assembled in equipment units so that the two springs in any or all sets of springs will make contact with each other when the plug is removed.

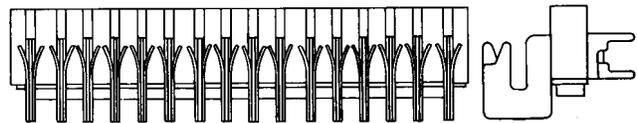


Fig. 6—461A Jack

**2.07 462A:** This single-mounted jack (Fig. 7) is heavily insulated and is used with the 347 or similar-type plug.

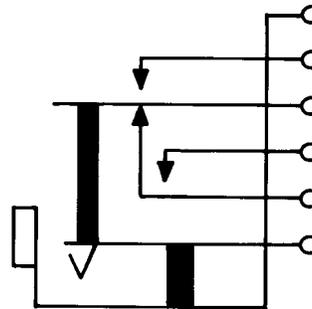


Fig. 7—462A Jack

**2.08 463A:** This multicontact jack (Fig. 8) consists of a metal bracket on which there are mounted three pairs of contact springs, one pair of which is equipped with a set of break-make contacts. This jack is used with the 240B plug which operates the set of break-make contacts when inserted in the jack. This jack is also equipped with a numbered plate holder. The terminals are arranged for mechanically wrapped connections. This jack is to be mounted on mounting plates used in step-by-step equipment.

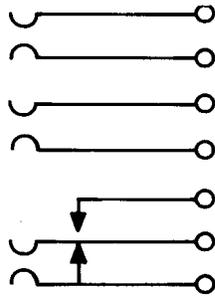


Fig. 8—463A Jack

**2.09 465B, C, E, F, G, and H:** These coaxial-type jacks (Fig. 9) consist of a pair of coaxial jacks held rigidly in a metal cover. Each jack has an inner contact held in a tubular shield which is the outer contact. The outer contacts of the two jacks are connected together electrically. These jacks are to be mounted in jack mountings such as the 185 and 230A. The ac test voltage is 2000 volts. These jacks are used with the 337 or similar-type plugs.

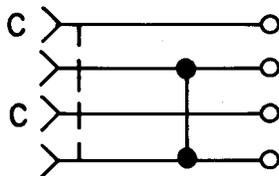


Fig. 9—465-Type Jack

(a) **465B and 465C:** These jacks are used with the KS-8086 shielded cable or 724 cable in the L Carrier Telephone Systems.

(b) **465E:** This jack is equipped with a terminal in the uncovered cable opening. A KS-15712,

L12, shield connector is shipped loose. This jack is used with the 761A cable in the L Carrier or L Multiplex Systems.

(c) **465F:** This jack is arranged for a solderless shield connection to a 760A cable in the L Carrier Systems. A KS-15712, L5, shield is shipped loose.

(d) **465G:** This jack is arranged for a solderless shield connection to a 754-type cable in the L Carrier Systems. A KS-15712, L6, connector is shipped loose.

(e) **465H:** This jack is equipped with an additional crimp terminal which permits the acceptance of a 724 or 728A cable. This jack may be used with either the 724, 728A, or 754E cable in the L Carrier Systems. A KS-15712, L5, shield and KS-15712, L6, connector are shipped loose.

**2.10 466B:** This portable coaxial-type patching jack (Fig. 10) is used with the KS-8086 or 724 cable and with the 337A, 337B, 342A, and 342B plugs in the L Carrier Telephone Systems. This jack replaces the 466A jack.

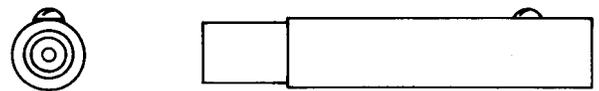


Fig. 10—466B Jack

**2.11 467A:** This multicontact jack (Fig. 11) consists of a metal bracket on which there are mounted two pairs of contact springs insulated from each other. The terminals are arranged for mechanical wrapped connections. This jack is used with the 240A plug on universal switch shelves in Step-by-Step Dial Telephone Systems. The 467A jack mounts on a 229-type or 230A terminal strip.

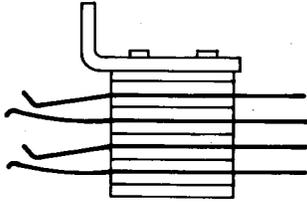


Fig. 11—467A Jack

2.12 **468B:** This single-mounted jack (Fig. 12) has a tubular metal frame and has coaxially arranged inner and outer contacts. This jack is provided with terminals at the rear for connecting wires instead of coaxial cable. This jack is used with the 337A and 337B and similar-type plugs. This jack is used in the L1 Carrier Telephone Systems. The testing voltage for this jack is 2000 volts ac. This jack replaces the 468A jack.

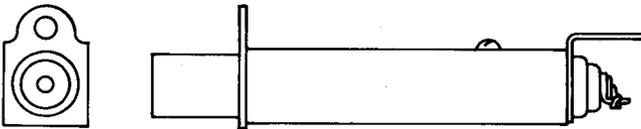


Fig. 12—468B Jack

2.13 **469A and CM:** These jacks are used with a 310 or similar-type plug (Fig. 13).

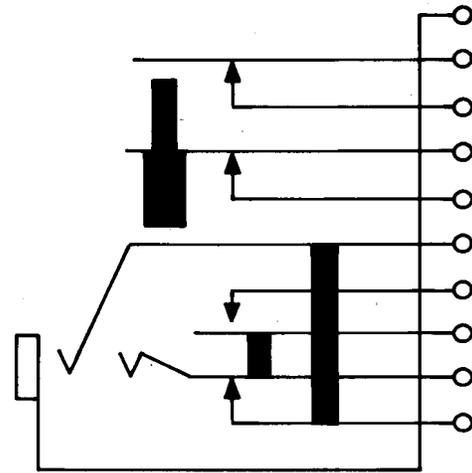


Fig. 13—469A or CM Jack

(a) **469A:** This is a heavily insulated single-mounted jack. This jack will also mount in the 212A jack mounting and is to be used with common systems.

(b) **469CM:** This is a heavily insulated jack equipped with solderless wire terminals and a C-type frame.

2.14 **470B and C:** These single-mounted jacks (Fig. 14), each having coaxially arranged inner and outer contacts, are arranged for use with the 337B plug. The terminal end is arranged for wire connections. This jack is not intended for connection to a coaxial cable.

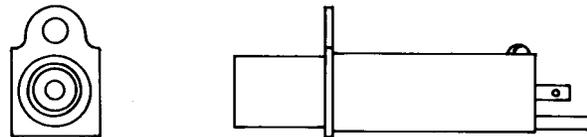


Fig. 14—470B or C Jacks

(a) **470B:** This jack is provided with a hole in the frame to permit a connection to the outer contact. This jack is to be used in the J64002A pilot indicator, the J64033A transmission measuring set, and the J64052A oscillator in toll systems. This jack replaces the 470A jack. The test voltage is 2000 volts ac.

(b) **470C:** This jack is to be used in modulators, detectors, and other testing and measuring apparatus for L1 and L3 Carrier Telephone Systems. The ac test voltage is 2000 volts ac. This jack replaces the D-177298 jack.

**2.15 471A:** This polarized jack (Fig. 15) is used with the 346A plug.

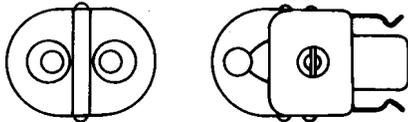


Fig. 15—471A Jack

**2.16 472B:** This single-mounted jack (Fig. 16) has coaxially arranged inner and outer contacts which are mounted in a tubular metal frame which serves as a shield. This jack is tested with 2000 volts ac. The 472B jack is to be used with a 337B plug and KS-13679 coaxial cable. This jack is to be used in the J64061A signal generator and the J64070A power meter in toll systems. This jack replaces the 472A jack.

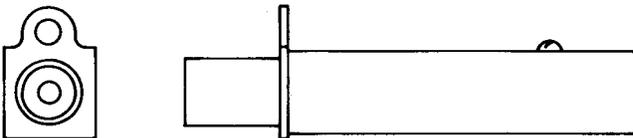


Fig. 16—472B Jack

**2.17 474B, C, and D:** These jacks each have right-angle, swivel elbows at one end and are arranged for a solderless shield connection to a 724 or similar-type cable by means of a sleeve which is furnished as a loose part with the jacks. These coaxial-type jacks (Fig. 17) are used in the 337 or similar-type plugs. The test voltage for each jack is 2000 volts ac.

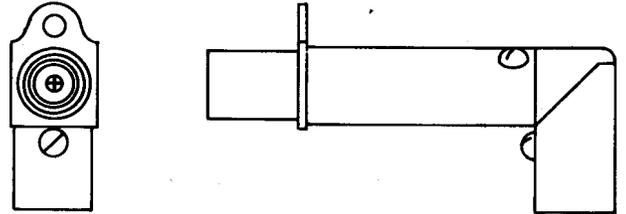


Fig. 17—474-Type Jack

(a) **474B:** This jack is provided with a No. 2A cushion and used in type L Carrier Telephone Systems. The 474B jack replaces the 474A jack.

(b) **474C:** This jack is arranged to be connected to the KS-19224, L1, cable and intended to be used in the L Multiplex System.

(c) **474D:** This jack is arranged to be connected to the 730A cable.