

NONCODED SOCKETS—KS-21538 THROUGH KS-22320

DESCRIPTION

1. GENERAL

1.01 This section lists and illustrates noncoded sockets within the part or type number range of KS-21538 through KS-22320, used for the maintenance and operation of equipment in central offices.

1.02 Whenever this section is reissued, the reason for reissue will be given in this paragraph.

2. DESCRIPTION OF SOCKETS

2.01 **KS-21538-Type:** The KS-21538-type relay sockets allow plug-in installation of KS-21137, KS-21138, and KS-21215 relays. They consist of molded plastic bodies and gold-plated contacts. The sockets may be mounted by a screw through the body. A retainer spring holds the relay in its socket.

(a) **KS-21538, L1:** The KS-21538, L1, socket (Fig. 1) is used with the KS-21137, L1, relay and is used in the KS-20017 tape transport.

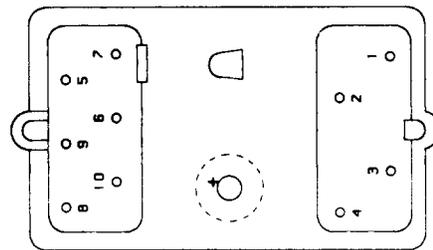
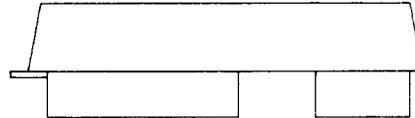


Fig. 1—KS-21538, L1, Socket

(b) **KS-21538, L2:** The KS-21538, L2, relay socket (Fig. 2) is used with the KS-21137, L2, relay and is used in the KS-20017 tape transport.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

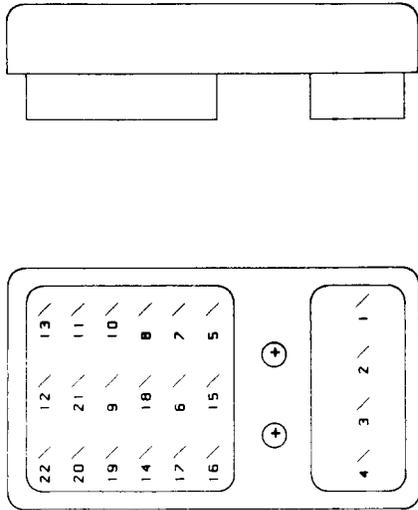


Fig. 2—KS-21538, L2, Socket

(c) **KS-21538, L3:** The KS-21538, L3, relay socket (Fig. 3) is used with the KS-21138, L1, relay and is used in the KS-20017 tape transport.

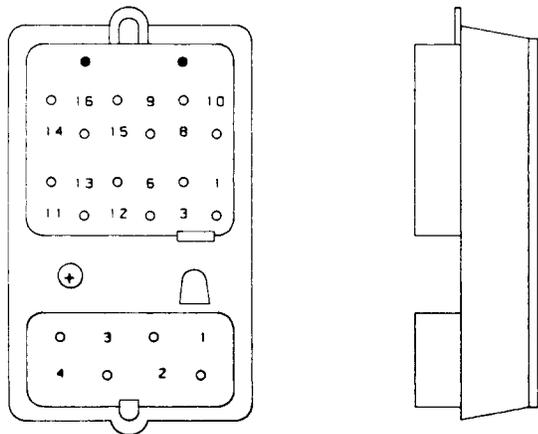


Fig. 3—KS-21538, L3, Socket

(d) **KS-21538, L4:** The KS-21538, L4, relay socket (Fig. 4) is used with the KS-21215, L1, relay and is used in the 812A PBX.

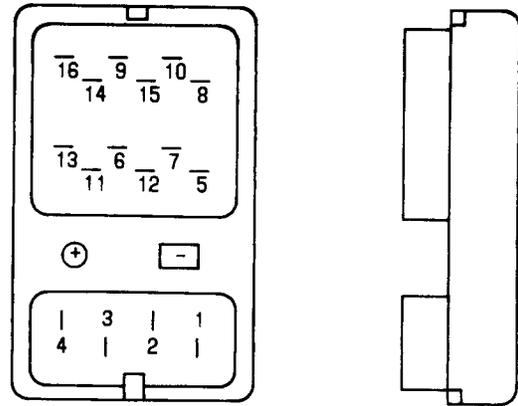


Fig. 4—KS-21538, L4, Socket

2.02 KS-21563, L1: The KS-21563, L1, Light Emitting Diode (LED) socket (Fig. 5) is furnished in strip form, capable of use with the machine used for inserting AMP-MOD II AMPMODU Type C Female Contact No. 85863-7 in printed circuit boards. The socket is furnished with a finish of 0.00005-inch thick nickel plus 0.00005-inch thick hard gold. The socket is designed to accept the 0.025-inch square terminals of the Western Electric LEDs (such as the 529, 530, 531, 534, and 549 types).



Fig. 5—KS-21563, L1, Socket

2.03 KS-21722-Type: The KS-21722-type sockets are miniature sockets consisting of gold-plated, beryllium-copper contacts fixed in gold-plated copper shells. They are designed to be mounted on a printed circuit board. It is recommended that the mating leads also be gold plated. The KS-21722-type sockets may also consist of a quantity of the above sockets mounted in a plastic

insulator with suitable spacing to accommodate a multicontact male plug assembly. See Table A for KS-21722, L4 through L11, sockets.

- (a) **KS-21722, L1:** The KS-21722, L1, socket (Fig. 6) is used in the voice frequency attenuator equipment in common systems.

TABLE A

| KS-21722 LIST NO. | FIG. NO. | PIN COUNT |
|-------------------|----------|-----------|
| 4 | 8 | 14 |
| 5 | 8 | 16 |
| 6 | 8 | 24 |
| 7 | 8 | 28 |
| 8 | 8 | 40 |
| 9 | 8 | 8 |
| 10 | 9 | 14 |
| 11 | 9 | 16 |

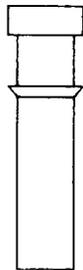


Fig. 6—KS-21722, L1, Socket

- (b) **KS-21722, L2:** The KS-21722, L2, socket (Fig. 7) is equipped with a square-wrap post. The socket is used in the voice frequency attenuator equipment in common systems.

- (c) **KS-21722, L3:** The KS-21722, L3, socket (Fig. 7) is equipped with a square-wrap post. The socket is used in the store frame for Traffic Service Position System (TSPS).

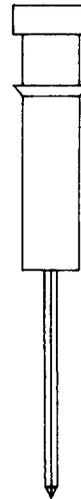


Fig. 7—KS-21722, L2 or L3, Socket

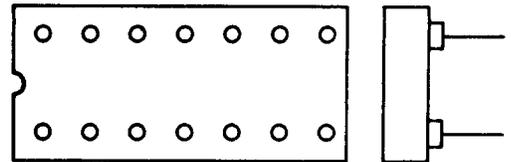


Fig. 8—KS-21722, L4 Through L8, Sockets

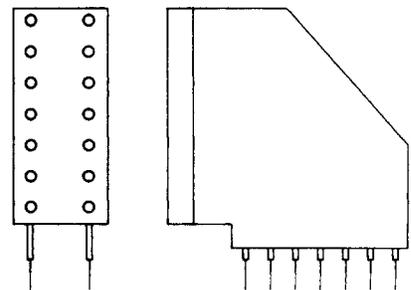


Fig. 9—KS-21722, L10 or L11, Socket

2.04 KS-21780-Type: The KS-21780-type sockets consist of molded, plastic insulators and gold-plated contacts. These sockets have provisions for retaining the KS-21781 plug in the socket, and is used in the D3 and D4 Carrier Transmission Systems. For more information, see Table B.

TABLE B

| KS-21780 LIST NO. | FIG. NO. | NO. OF MODULES |
|-------------------|----------|----------------|
| 1 | 10 | 1 |
| 2 | 10 | 2 |
| 3 | 10 | 3 |
| 4 | 10 | 4 |
| 5 | 10 | 5 |
| 6 | 10 | 6 |
| 7 | 11 | 6 |
| 8 | 11 | 8 |
| 9 | 10 | 2 |
| 10 | 10 | 3 |
| 11 | 10 | 4 |
| 12 | 10 | 5 |
| 13 | 10 | 6 |
| 14 | 10 | 6 |
| 15 | 12 | 1 |
| 16 | 12 | 2 |
| 17 | 12 | 3 |
| 18 | 12 | 4 |
| 19 | 12 | 5 |
| 20 | 12 | 6 |
| 21 | 12 | 7 |
| 22 | 12 | 8 |

(a) **KS-21780, L1 Through L6:** The KS-21780, L1 through L6, sockets (Fig. 10) are multiples of 3-cavity socket modules in which a manual switching function can be performed by transposing an insulated staple shaped plug between two adjacent contacts within the module. One half of each module is color coded to provide a visual indication as to the electrical status of the manual switch.

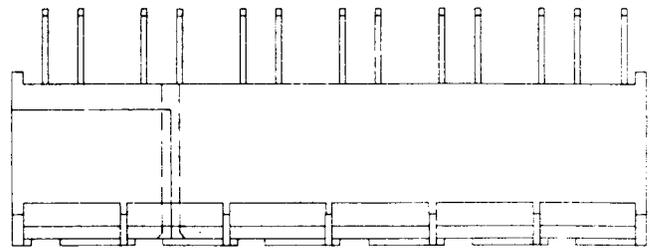
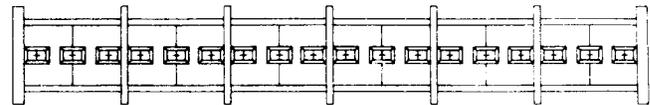


Fig. 10—KS-21780, L1 Through L6, or L9 Through L14, Sockets



(b) **KS-21780, L7 and L8:** The KS-21780, L7 and L8, sockets (Fig. 11) are multiples of 2-cavity socket modules in which the switching function is performed by inserting or completely removing the plug.

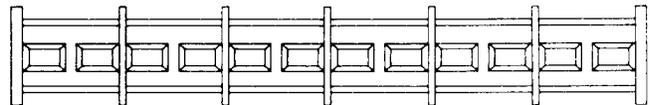


Fig. 11—KS-21780, L7 or L8, Socket

(c) **KS-21780, L9 Through L14:** The KS-21780, L9 through L14, sockets (Fig. 10) are multiples of 3-cavity socket modules in which a manual switching function can be performed by transposing an insulated staple shaped plug between two adjacent contacts within the module. One half of each module is color coded to provide a visual indication as to the electrical status of the manual switch. The KS-21780, L9 through L14, sockets have modules each equipped with three contacts. The L14 is a 6-position socket and the first position is equipped with three contacts in positions two through six with the last contact omitted.

(d) **KS-21780, L15 Through L22:** The KS-21780, L15 through L22, sockets (Fig. 12) are multiples of 2-cavity socket modules in which the switching function is performed by inserting or completely removing the plug. The sockets are designed to be soldered to a printed circuit board.

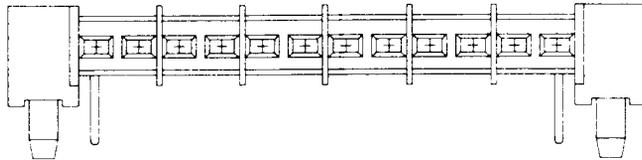


Fig. 12—KS-21780, L15 Through L22, Socket

2.05 KS-22320-Type: The KS-22320-type sockets (Fig. 13) accommodate dual-in-line packages of various row widths and pin counts. The sockets are designed for a maximum of 20 insertion-removal cycles. The contacts are one piece opposing leaf construction and accommodate dip leads that are 0.01 inch by 0.025 inch wide and have at least 50 microinches of gold plating. For more information, see Table C.

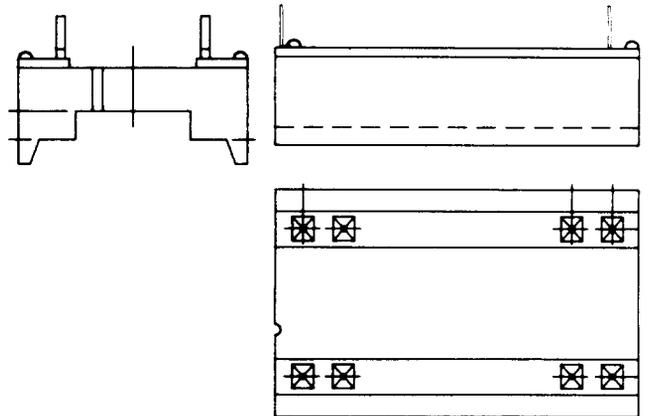


Fig. 13—KS-22320-Type Socket

TABLE C

| KS-22320 LIST NO. | PIN COUNT |
|-------------------|-----------|
| 1 | 14 |
| 2 | 16 |
| 3 | 18 |
| 4 | 20 |
| 7 | 24 |
| 8 | 28 |
| 9 | 40 |
| 10 | 32 |