

## 625-, 630-, 635-, 725-, 742-, AND 830-TYPE CONNECTING BLOCKS IDENTIFICATION, INSTALLATION, AND CONNECTIONS

### 1. GENERAL

**1.01** This section provides information on 625-, 630-, 635-, 725-, 742-, and 830-type connecting blocks intended for use with modular type mounting cords.

**1.02** This section is reissued to add information on the 725-, 742-, and 830-type connecting blocks. Revision arrows are used to emphasize the more significant changes.

**1.03** Use of the 625-, 630-, 635-, ♦725-, 742-, and 830-type♦ connecting blocks as registration interface devices, as provided for under the Federal Communications Commission (FCC) Registration Program, is covered in:

- Section 463-400-120: Registration Interface — ♦RJ11C, RJ11W, RJ12C, RJ12W, RJ13C, RJ13W, RJ17C, and RJ1DC♦ — Bridged Single Line Tip and Ring Arrangements
- Section 463-400-130: Uniform Service Order Codes (USOCs) — ♦RJ16X, RJ31X, RJ32X, RJ33X, RJ34X, RJ35X, RJ36X (MD), RJ37X, and RJ38X♦ — Identification and Maintenance — Series Single Line Tip and Ring Arrangements
- Section 463-400-140: Uniform Service Order Codes (USOCs) RJ14C and RJ14W — Identification and Maintenance — Bridged 2-Line Tip and Ring Arrangements
- Section 463-400-142: RJ25C — Identification and Maintenance — Registration Interface Bridged 3-Line Tip and Ring Arrangements
- Section 463-400-143: RJ61X — Identification and Maintenance — Registration Interface Bridged 4-Line Tip and Ring Arrangements.

Table C lists the type connecting block used with a particular USOC.

### 2. IDENTIFICATION

#### ORDERING GUIDE

**2.01** Order connecting blocks as follows:

- Block, Connecting, 625A (Fig. 1)
- Block, Connecting, 625B (Fig. 2)
- Block, Connecting, 625C (Fig. 3)
- ♦Block, Connecting, 625D4 (Fig. 4, 5)♦
- Block, Connecting, 625D6 (Fig. 6, 7)
- Block, Connecting, 625F (Fig. 8)
- Block, Connecting, 625H (Fig. 9)
- Block, Connecting, 625S (Fig. 10)
- Block, Connecting, 625SA (Fig. 11)
- Block, Connecting, 625S6 (Fig. 12)
- Block, Connecting, 625FS (Fig. 13)
- Block, Connecting, 625TD (Fig. 14)
- Block, Connecting, 625TD2 (Fig. 14)

**Note:** The 625TD2 is identical to the 625TD except it is equipped with two terminating units.

- Block, Connecting, 625WP4 (Fig. 15)
- Block, Connecting, 630A4 (Fig. 16, 17, 18)
- ♦Block, Connecting, 630B (Fig. 19)♦
- Block, Connecting, 635B (Fig. 20, 21)
- ♦Block, Connecting, 725FS (Fig. 22)

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**SECTION 461-610-100**

- Block, Connecting, 725FSA (Fig. 23)
- Block, Connecting, 742A (Fig. 24)
- Block, Connecting, 742B (Fig. 25)
- Block, Connecting, 830A4 (Fig. 26)♦
- Set, Test, 934B (Fig. 27).

**CONNECTING BLOCKS**

**2.02** These connecting blocks provide a termination for the D4BU, D6BU, D8AA, or equivalent miniplug-ended mounting cord used with the modular telephone sets or ancillary devices.

**A. 625A Connecting Block (Fig. 1)**

**2.03** The 625A connecting block (Fig. 1) is intended for new installations. It is surface mounted. It consists of a 42A connecting block (base) and a 625C connecting block (cover). The 42A contains four screw terminals and is intended to terminate inside wire and spade-tipped jack leads. It is available in

light olive gray (-49), ivory (-50), and brown (-54). It is intended for use in dry areas where contamination is not a problem.

**B. 625B Connecting Block (Fig. 2)**

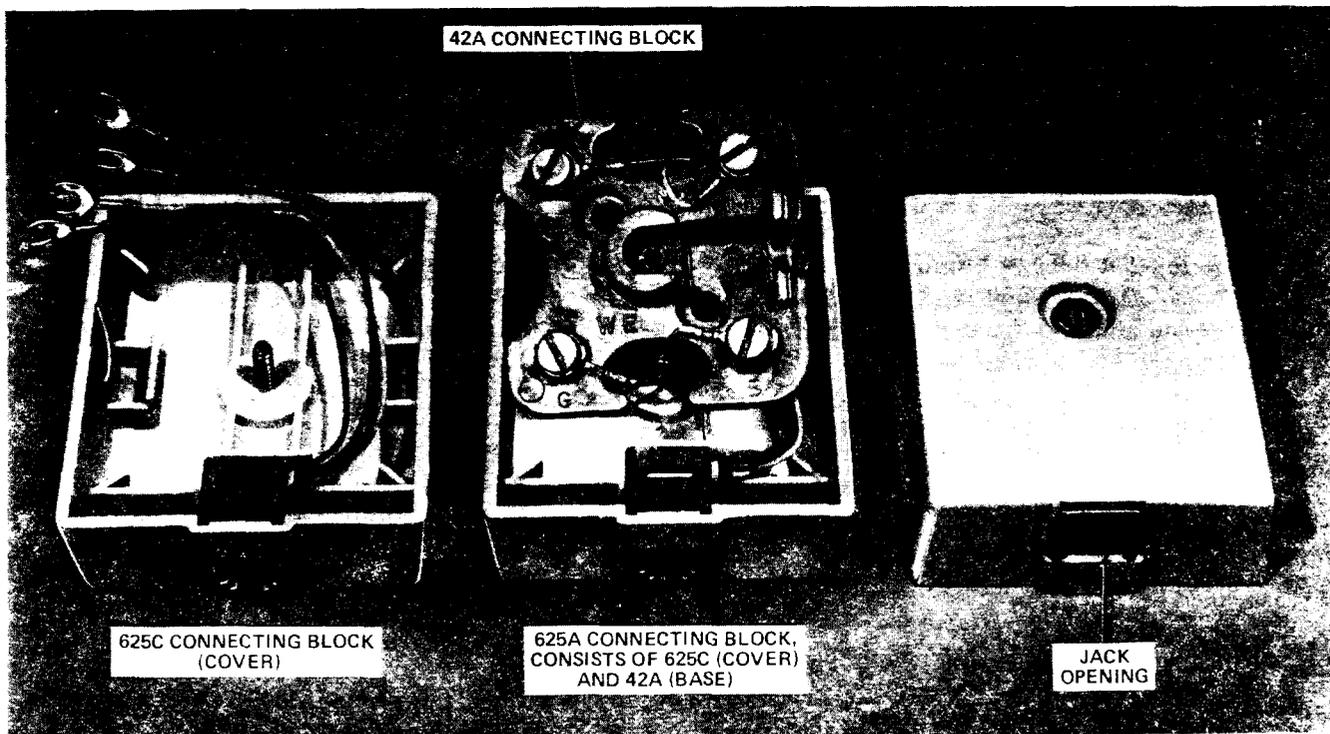
**2.04** The 625B connecting block (Fig. 2) is intended for new installations. It consists of a 625F connecting block and 65A faceplate assembly which includes a 842615544 bracket and mounting screws. It is flush mounted. It is available in light olive gray (-49), ivory (-50), and brown (-54).

**C. 625C Connecting Block (Fig. 3)**

**2.05** The 625C connecting block (Fig. 3) is a cover intended to convert a 42A connecting block to modular. The spade-tipped jack leads provide the terminations to the connecting block screw terminals. It is surface mounted. It is available in light olive gray (-49), ivory (-50), and brown (-54).

**♦D. 625D4 Connecting Block (Fig. 4 and 5)**

**2.06** The 625D4 connecting block (Fig. 4 and 5) consists of a faceplate, two 645A4B jacks, termi-



**Fig. 1—625A Connecting Block**

- 4 CONTACTS
- FLUSH MOUNTED:  
FOR USE IN STANDARD ELECTRICAL  
OUTLET BOX
- NOTE:  
65A FACEPLATE ASSEMBLY INCLUDES  
MOUNTING SCREWS AND 842615544 BRACKET
- MATES WITH D4BU MOUNTING CORD PLUG
- FOR NEW INSTALLATIONS

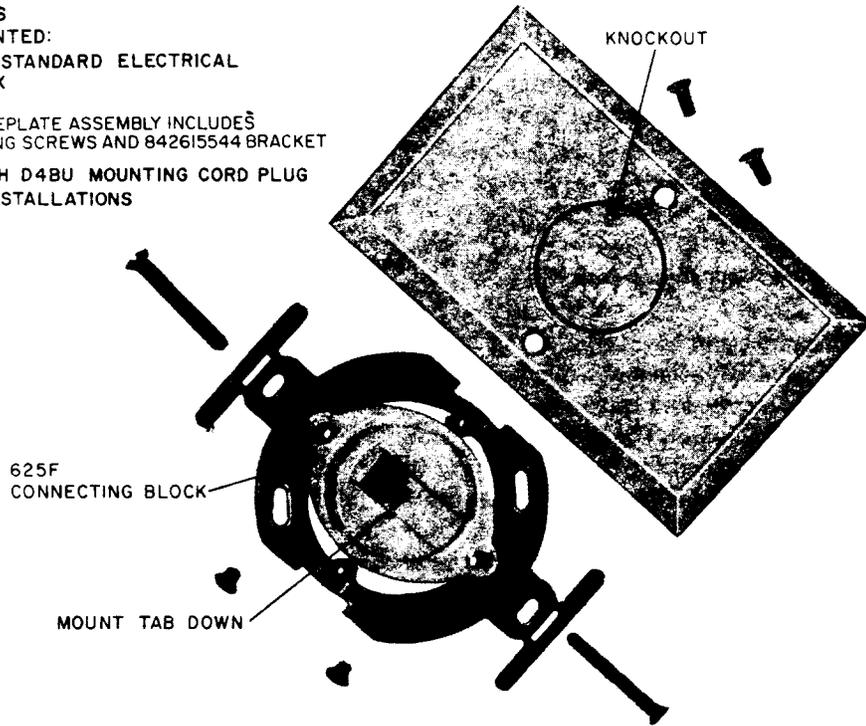


Fig. 2—625B Connecting Block

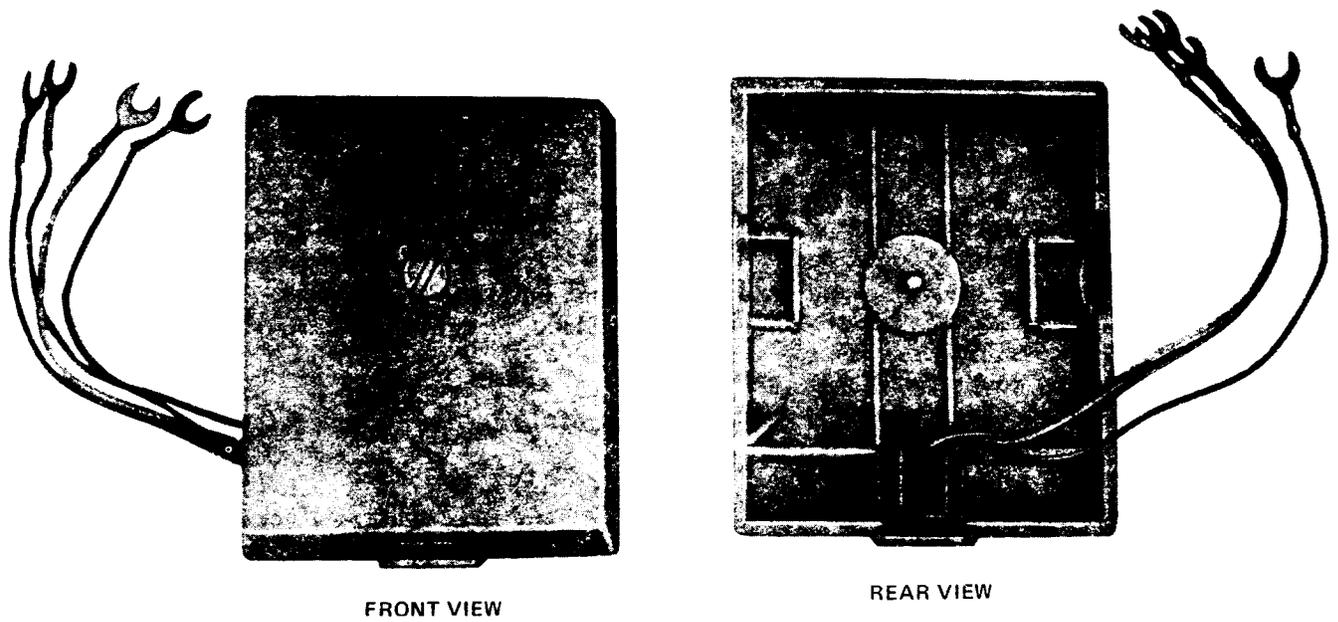


Fig. 3—625C Connecting Block

nal block, and mounting bracket. Eight screws are provided on the rear of the block for connections. It is intended for flush mounting in areas where two separate lines enter through a single outlet and terminate in separate jacks. Intended for use where up to four conductors are needed in each jack. Each jack provides for terminating a modular mounting cord. It is available in ivory (-50) and brown (-54).♦

#### E. 625D6 Connecting Block (Fig. 6 and 7)

2.07 The 625D6 connecting block (Fig. 6 and 7) consists of two 645A6E jacks molded into a plastic faceplate, terminal block, and mounting bracket. Twelve screws are provided on the rear of the block for connections. It is intended for flush mounting in areas where two separate lines enter through a single outlet and terminate in separate jacks. Intended for use where six conductors are needed in each jack. Each jack provides for terminating a modular mounting cord. It is available in ivory (-50) and brown (-54).

#### F. 625F Connecting Block (Fig. 8)

2.08 The 625F connecting block (Fig. 8) consists of a jack and terminal block. It is intended for modular replacement for 548A jack or 47F (MD) connecting block. It is intended for flush mounting. The 65A faceplate and 842615544 mounting bracket used in conjunction with this connecting block must be ordered separately. It is available in ivory (-50) and brown (-54).

#### G. 625H Connecting Block (Fig. 9)

2.09 The 625H connecting block (Fig. 9) consists of a faceplate, jack, terminal board, and mounting bracket. The 645H2 jack has a green and red lead provided on contacts 1 and 6, respectively. This connecting block is intended for flush mounting in hospital critical care areas to provide connection by specially wired instruments to transmit electrocardiogram (EKG) signals or voice signals (using a TRIMLINE® telephone set with AD3H [desk] or AC2PH [wall] telephone set base) on the telephone network. It is available in light olive gray (-49), ivory (-50), and brown (-54).

**Note:** The 625H connecting block is not applicable to wall-mounted TRIMLINE telephone sets.

#### ♦H. 625S Connecting Block (Fig. 10)

2.10 The 625S connecting block (Fig. 10) consists of a 42A connecting block (base), 625 swinger assembly (cover), and jack. It is intended for surface mounting. The spade-tipped jack leads provide the termination to the connecting block screw terminals. It is available in ivory (-50) and brown (-54).♦

#### I. 625SA Connecting Block (Fig. 11)

2.11 The 625SA connecting block (Fig. 11) consists of a 42B4 connecting block (base), 625T swinger assembly (cover), and jack. It is intended for surface mounting in high humidity and infested areas. The spade-tipped jack leads provide the termination to the connecting block screw terminals. It is available in ivory (-50) and brown (-54).

#### J. 625S6 Connecting Block (Fig. 12)

2.12 The 625S6 connecting block (Fig. 12) consists of a 42B6 connecting block (base), 625T swinger assembly (cover), and jack. It is intended for surface mounting and replaces the 74D (MD) connecting block. The spade-tipped jack leads provide the termination to the connecting block screw terminals. It is available in light olive gray (-49) and ivory (-50).

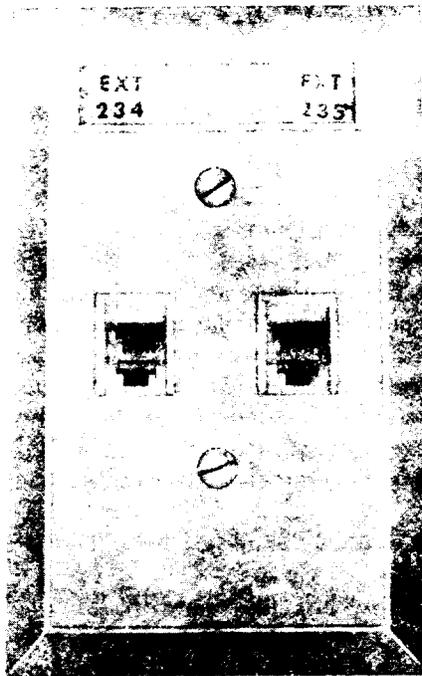
**Note:** The 625T cover can not be ordered separately.

#### K. 625FS Connecting Block (Fig. 13)

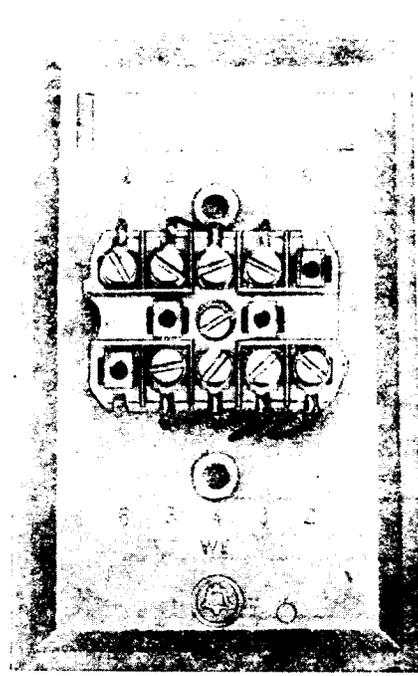
2.13 The 625FS connecting block (Fig. 13) consists of a faceplate, jack, terminals, and mounting bracket. The faceplate has a swinger assembly. It is intended for flush mounting in high humidity areas where infestation exists or spray paint is used. It is available in light olive gray (-49), ivory (-50), and brown (-54).

#### L. 625TD Connecting Block (Fig. 14)

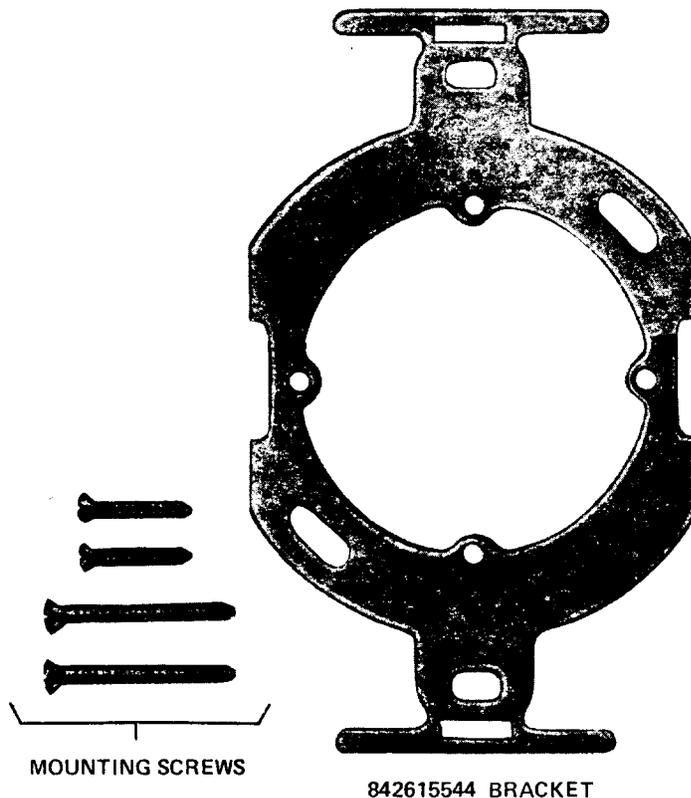
2.14 The 625TD connecting block (Fig. 14) consists of a 42E connecting block (base), 625T swinger assembly (cover), jack, and a line terminating unit (ringer simulator). The cover has an instruction label which states that the connecting block is the standard network interface between customer premises wiring and Bell System Telephone Company network facilities to be used in conjunction with 742A con-



FRONT VIEW



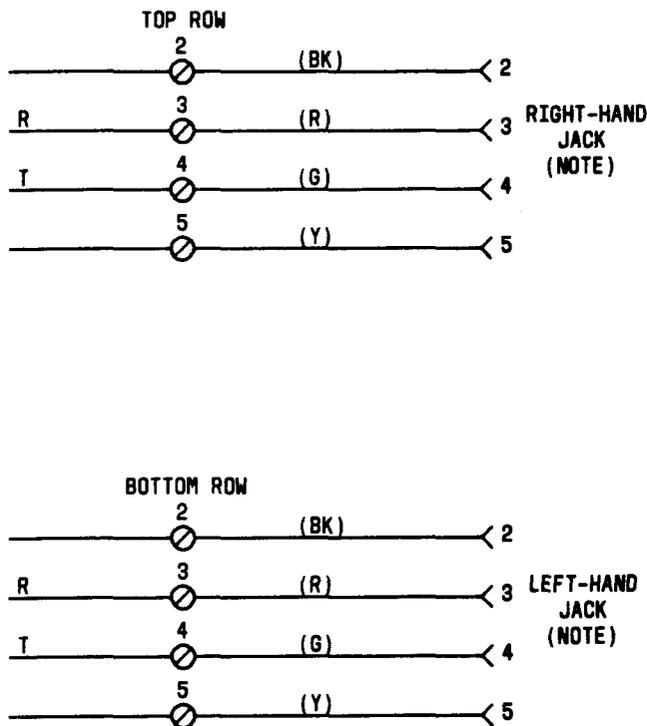
REAR VIEW



MOUNTING SCREWS

842615544 BRACKET

Fig. 4—625D4 Connecting Block (Without Mounting Hardware)



NOTE: TOP ROW OF TERMINALS IS ASSOCIATED WITH RIGHT-HAND JACK AND BOTTOM WITH LEFT-HAND WHEN VIEWED FROM FRONT OF CONNECTING BLOCK WITH DESIGNATION CARD UP.

Fig. 5—625D4 Connecting Block, Connections

necting block or equivalent. It is intended for surface mounting. It is available in ivory (-50).

**M. 625TD2 Connecting Block (Fig. 14)**

2.15 The 625TD2 connecting block is similar to the 625TD connecting block except it is equipped with a second line termination unit for terminating a second line in the same connecting block. The 625TD2 connecting block is available in ivory (-50).

**N. 625WP4 Connecting Block (Fig. 15)**

2.16 The 625WP4 connecting block (Fig. 15) is a weatherproof connecting block. It consists of a faceplate, terminal block, grommet, and gasket. It is intended for use outdoors and/or where severe en-

vironmental conditions exist. *It is not intended for use at marinas or for recreational vehicle service.*

**O. 630A4 Connecting Block (Fig. 16, 17, and 18)**

2.17 The 630A4 connecting block (Fig. 16, 17, and 18) consists of a 1034A mounting plate, 841020910 frame assembly, four conductor lead assembly, and 840503973 bracket. It is intended for use as a plug-in wall set mounting and will also accept a modular-type mounting cord. The 1034A mounting plate is stainless steel. Also included is a 841011398 protective wrapper (which protects wire ends from touching the mounting plate and keeps out moisture). The protective plastic on the stainless steel cover should be removed after the cover has been mounted.

**P. 630B Connecting Block (Fig. 19)**

2.18 The 630B connecting block (Fig. 19) consists of a 1034A mounting plate, 841020910 frame assembly, four conductor lead assembly, and 841020944 bracket. Also included is a 841011398 protective wrapper and two plastic clips which are used to terminate inside wire without the aid of an insert tool. It is intended for use as a plug-in wall set mounting and will also accept a modular-type mounting cord. The mounting plate is stainless steel and is covered with clear plastic which should be removed after the plate has been mounted.♦

**Q. 635B Connecting Block (Fig. 20 and 21)**

2.19 The 635B connecting block (Fig. 20 and 21) consists of a 843126939 base which is equipped with a 651A jack and eight terminal lugs. It is intended for use with a D8AA mounting cord or equivalent and is used to permit company-owned and customer-provided equipment to be placed in series with telephone company equipment. It is intended to replace the 635A (MD) connecting block. An optional feature provides for field installation of a 652A jack. This arrangement is used where the controlled device and the series device are both at the same location e.g. an automatic dialer. The 652A jack is intended to be used with the controlled device.

**R. 725FS Connecting Block (Fig. 22)**

2.20 The 725FS connecting block (Fig. 22) consists of a faceplate with rotating cover, jack with push-on connectors, and a mounting bracket. It is in-

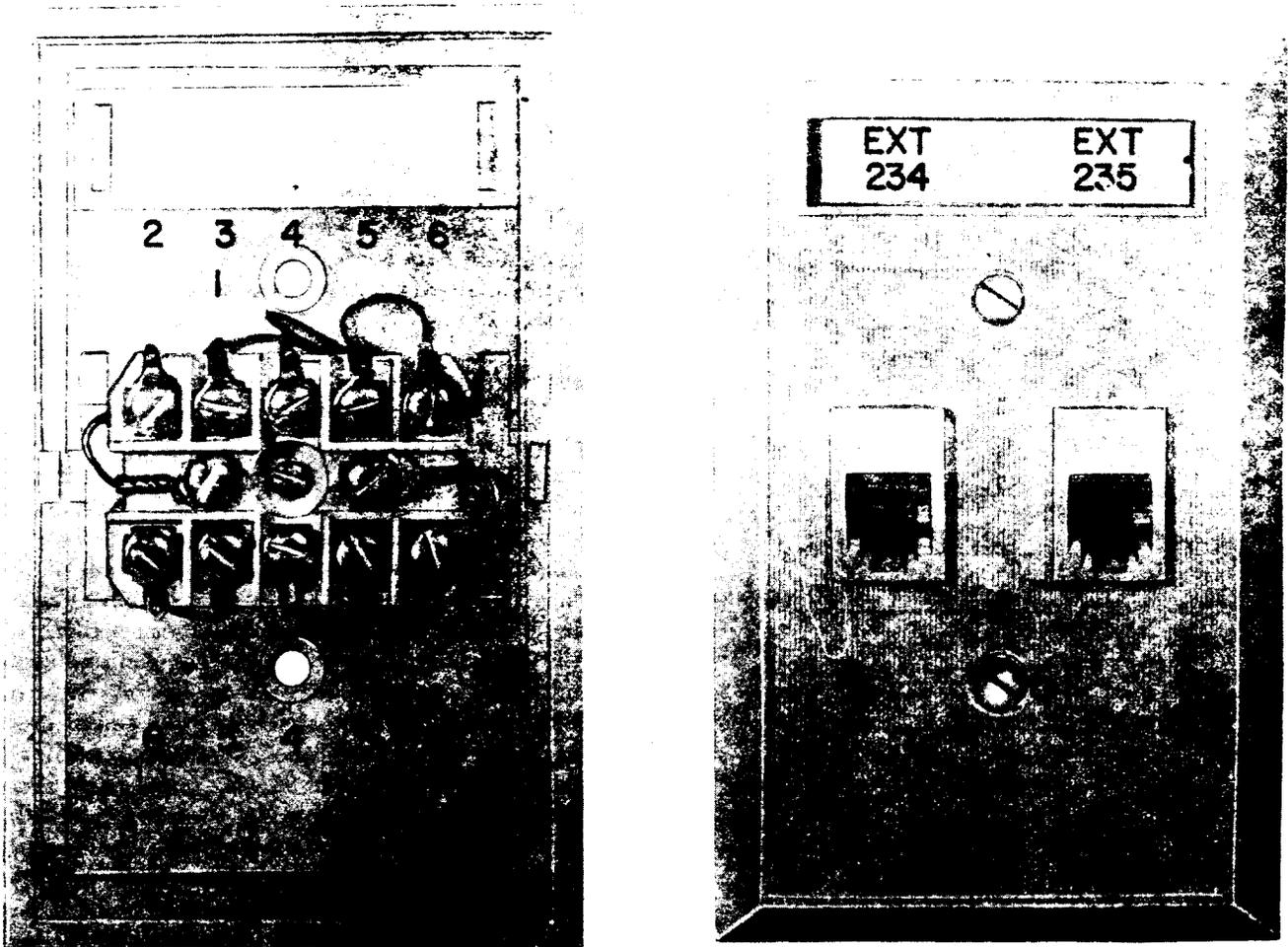


Fig. 6—625D6 Connecting Block (Without Mounting Hardware)

tended for flush mounting in conjunction with the 800A or 800C station wire box in prewire arrangements. It is available in ivory (-50) and brown (-54).◆

◆S. 725FSA Connecting Block (Fig. 23)

2.21 The 725FSA connecting block (Fig. 23) consists of a faceplate with rotating cover, jack, terminal block with 990A split-beam connectors, and a mounting bracket. It is intended for flush mounting. It is available in ivory (-50) and brown (-54).◆

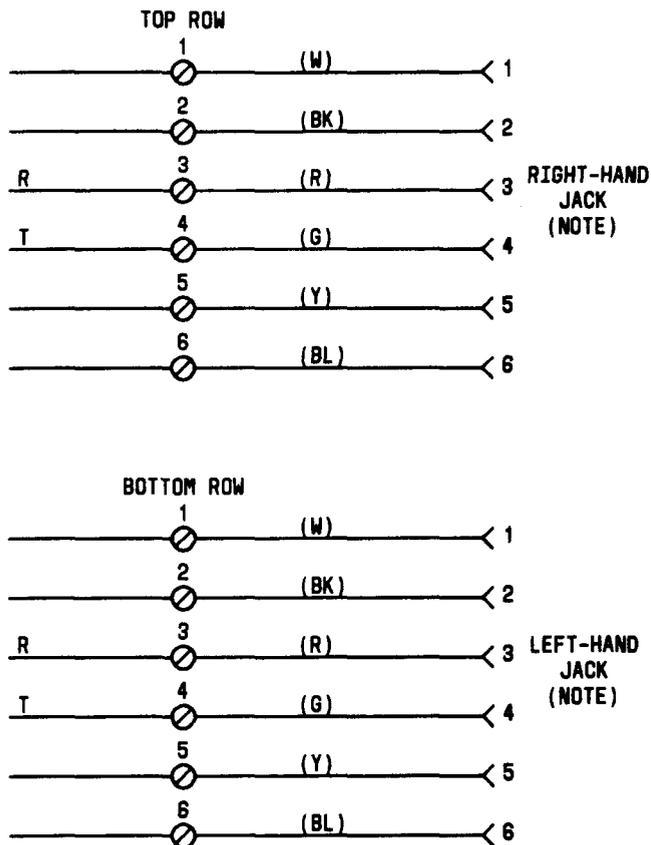
◆T. 742A Connecting Block (Fig. 24)

2.22 The 742A connecting block consists of a base with four slotted-beam terminals, each terminal consisting of two 990A split-beam connectors, a

four-conductor modular cord and a cover. It is intended for surface mounting and to be used as an entrance bridge. The modular cord extends one or two circuits into the 625TD connecting block (standard network interface) or any other modular location which is connected to the Bell System Network. It is available in ivory (-50) and brown (-54).◆

◆U. 742B Connecting Block (Fig. 25)

2.23 The 742B connecting block (Fig. 25) consists of a base with four slotted-beam terminals, each terminal consisting of two 990A split-beam connectors and a cover. It is intended for surface mounting and to be used as a line bridge connecting block whenever a hard-wired bridging point is needed. It could be used at a network interface location if more than



NOTE: TOP ROW OF TERMINALS IS ASSOCIATED WITH RIGHT-HAND JACK AND BOTTOM WITH LEFT-HAND JACK WHEN VIEWED FROM FRONT OF CONNECTING BLOCK WITH DESIGNATION CARD UP.

Fig. 7—625D6 Connecting Block, Connections

four wires require termination. It is available in ivory (-50) and brown (-54).◆

#### ◆V. 830A4 Connecting Block (Fig. 26)

2.24 The 830A4 connecting block (Fig. 26) consists of a mounting plate, frame assembly, and a four-conductor lead assembly equipped with snap-on connectors. It is intended to be used in conjunction with 800A or 800C station wire box to wall mount a modular wall telephone set. Also included is a 841011398 protective wrapper (which protects wire ends from touching the mounting plate and keeps out moisture). The plastic wrapper on the stainless steel

plate should be removed after the plate has been mounted.◆

### 3. INSTALLATION

3.01 **Warning:** Mounting a connecting block with jack opening facing up (surface-type) or spring contacts at the bottom of opening (flush- and swinger-type) could cause damage to block. To protect against contamination, modular connecting blocks are to be installed as follows.

(a) **Surface-Type:** Should be mounted with jack opening at bottom of connecting block (Fig. 1). Where a 42-type connecting block is mounted on a narrow baseboard, opening may have to be to left or right. Where practical and permissible, mount connecting block approximately 12 inches above floor (about electrical outlet height) for easier jack-plug orientation and less possibility of trouble due to contamination. This is the preferred location. These connecting blocks may be mounted on all types of surfaces. Backboards should be used only when mounting on damp surface or when the use of a backboard will facilitate installation. Avoid mounting areas which will cause trouble e.g. near or under windows, behind curtains, and furniture. Provide long mounting cords rather than mounting the connecting block in trouble areas. Mount where they are easily accessible to the customer and the telephone company for maintenance.

(b) **Flush-Type:** The jack opening shall be oriented with spring contacts at the top and the tab down as shown in Fig. 2. Locate connecting block where convenient for ease of connecting and disconnecting the miniplug.

(c) **Spring Cover-Type:** Install the flush-mounted swingers with the point of the spring-loaded cover up (Fig. 10). Install the surface-mounted swingers in the horizontal position so the OPEN label is situated for correct reading (Fig. 11). Locate connecting block where convenient for each of connecting and disconnecting the miniplug.

3.02 **625A Connecting Block:** Mount the 42A connecting block (base) on a wall (preferably at electrical outlet height) or baseboard. Terminate the station wire and dress the 625C connecting block

- 4 CONTACTS
- FLUSH MOUNTED:  
USING 63 TYPE OR KS-20502, L2 BRACKET  
OR IN STANDARD ELECTRICAL OUTLET  
BOX USING 43B (MD) BRACKET OR  
65A FACEPLATE
- MATES WITH D4BU MOUNTING CORD PLUG
- MOUNTING SCREWS SUPPLIED
- FOR MODULAR REPLACEMENT  
OF 548 TYPE JACKS

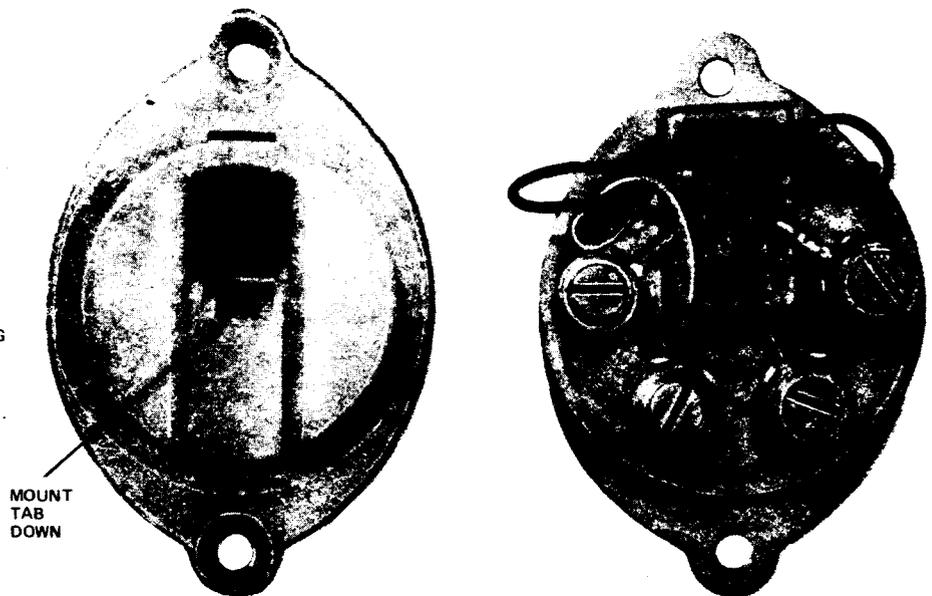


Fig. 8—625F Connecting Block (Without Mounting Hardware)

(cover) jack leads as shown in Fig. 1. Fasten the cover to the base to complete the installation.

**3.03 625B Connecting Block:** Mount the 842615544 bracket (Fig. 2) on a standard electrical outlet box, or 63B prewire bracket using hardware furnished. Feed wiring through the bracket and terminate on screw terminals located on back side of 625F connecting block. Fasten block to bracket. Remove knockout from 65A faceplate. Fasten faceplate to bracket to complete installation. The 625B connecting block can also be used with the 63B bracket or KS-20502L2 bracket.

**3.04 625C Connecting Block:** Remove cover (nonmodular) from existing 42A connecting block. Connect the 625C connecting block (cover) jack leads to the screw terminals on the 42A connecting block. Dress all leads away from cover mounting screw (Fig. 1).

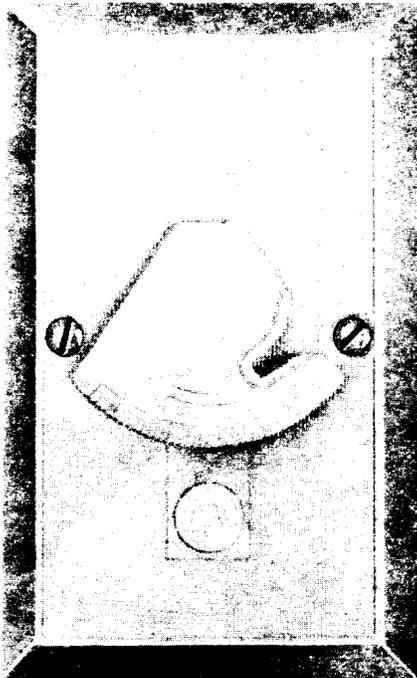
**3.05 625D4 Connecting Block:** Mount the 842615544 bracket (Fig. 4) on a standard electrical outlet box or 63B prewire bracket using hardware furnished with bracket. Feed wiring through bracket opening and terminate on terminal strip located on back side of blocks (Fig. 5). Each jack has four conductors; the bottom row of the terminal strip

is for the left jack and the top row for the right jack. Attach the block to the bracket using screws provided. Intended for use where up to four conductors are needed in the jack.

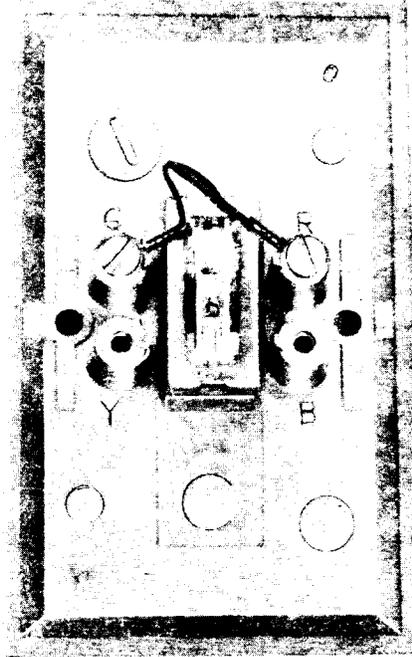
**3.06 625D6 Connecting Block:** Mount the 842615544 bracket (Fig. 6) on a standard electrical outlet box using hardware furnished with bracket. Feed wiring through bracket opening and terminate on terminal strip located on back side of block (Fig. 7). Each jack has six-conductors; the bottom row of the terminal strip is for the left jack and the top row for the right jack. Attach the faceplate to the bracket using screws provided. Figure 7 is a schematic of 625D6 connecting block jacks. Intended for use where six conductors are needed in the jack.

**3.07 625F Connecting Block:** The 625F connecting block (Fig. 8) is intended for use in converting a nonmodular connecting block to modular.

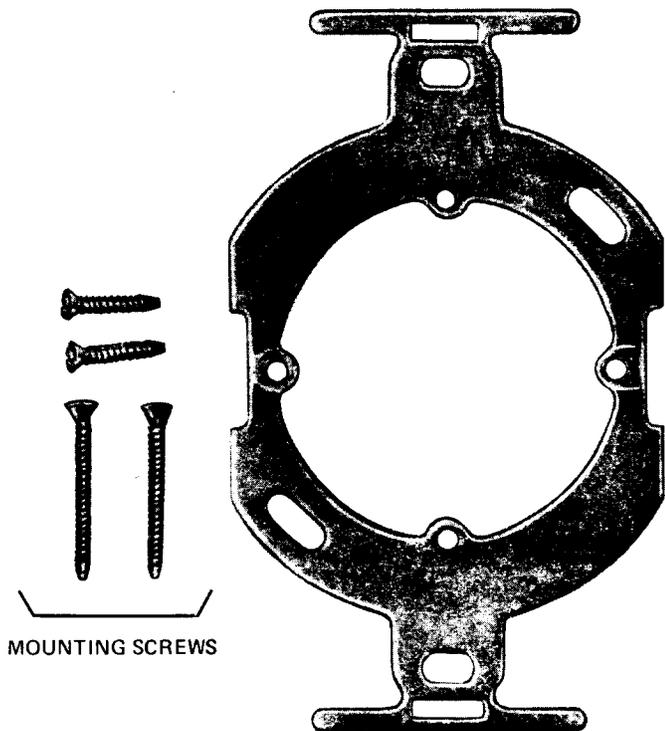
**3.08 625H Connecting Block:** Mount the 842615544 bracket (Fig. 9) on a standard electrical outlet box or 63B prewire bracket using hardware furnished with bracket. Feed wiring through bracket opening and terminate at terminals located on back side of block. Attach the block to the bracket using screws provided.



FRONT VIEW



REAR VIEW



842615544 BRACKET

Fig. 9—625H Connecting Block (Without Mounting Hardware)

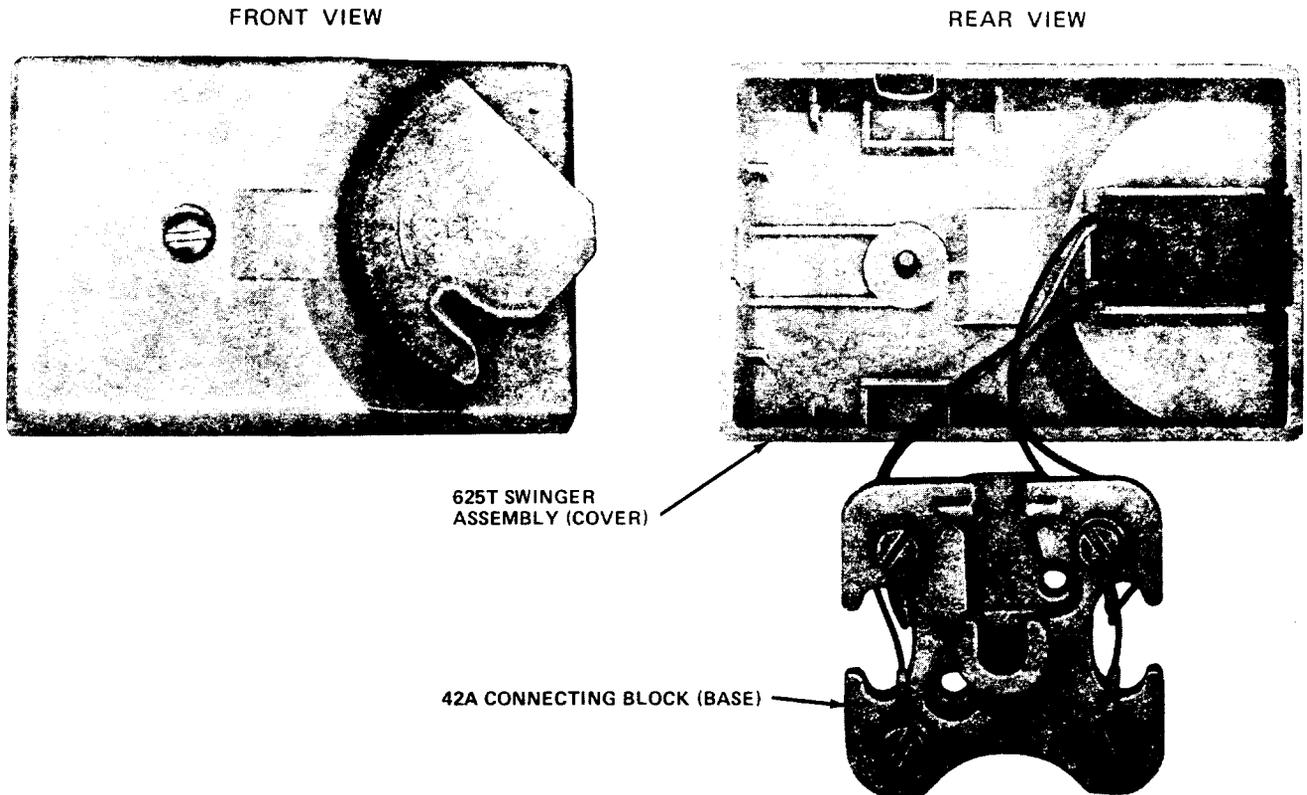


Fig. 10—625S Connecting Block

**3.09 625S Connecting Block:** Mount the 42A connecting block (base) on the wall (preferred) or baseboard. Terminate station wire and dress the 625T swinger assembly (cover) jack leads as shown in Fig. 10.

**3.10 625SA Connecting Block:** Mount the 42B4 connecting block (base) on the wall (preferred) or baseboard. Terminate station wire and dress the 625T swinger assembly (cover) jack leads as shown in Fig. 11.

**3.11 625S6 Connecting Block:** Mount the 42B6 connecting block (base) on a wall (preferred) or a baseboard. Terminate station wire and dress the 625T6 swinger assembly (cover) jack leads as shown in Fig. 12.

**Note:** The 625T6 cover can not be ordered separately.

**3.12 625FS Connecting Block:** Mount the 842615544 bracket (Fig. 13) on a standard elec-

trical outlet box or 63B prewire bracket using hardware furnished with bracket. Feed wiring through bracket opening and terminate at terminals located on back side of block. Attach the block to the bracket using screws provided.

**3.13 625TD Connecting Block:** Mount the 42E connecting block (base) on a wall (preferred) or baseboard as near the protector or point of premises penetration as possible. Terminate station wire and termination unit (ringer simulator) and dress the 625T swinger assembly (cover) jack leads as shown in Fig. 14. Intended for use with 742A connecting block or equivalent. The network interface label that comes in the package should be mounted on the protector or a conspicuous location specified locally.

**3.14 625WP4 Connecting Block:** Mount the 625WP4 connecting block on a B outlet box or equivalent. Provided with the connecting block is a rubber gasket and mounting screws to seal the mounting block to the outlet box, also provided is a

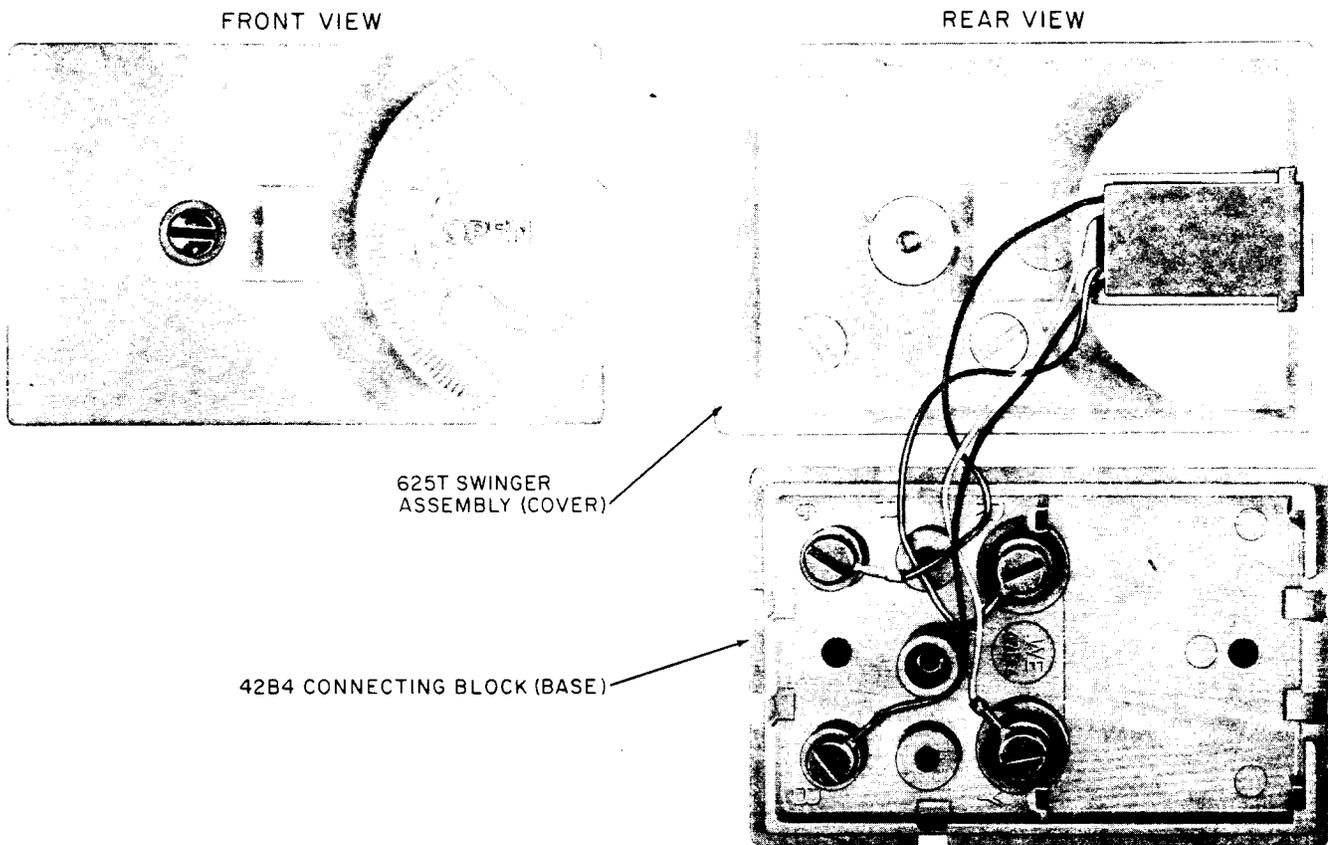


Fig. 11—625SA Connecting Block

plastic screw-on cap, a plastic washer, and a split rubber grommet to be used on the mounting cord to seal out moisture (Fig. 15).

**3.15 630A4 Connecting Block:** Mount the 630A4 connecting block (Fig. 16, 17, and 18) on a standard electrical outlet box using 840503973 bracket or on a 63-type bracket or directly on a wall. In all cases, the block should lie flat against the wall. When installing on an underflush outlet box or plastic ring, the connecting block bracket should be tightened just enough so the assembly is tight on the wall once mounting plate is attached and tightened down. Use the two 3/16-inch No. 6 faceplate screws when mounting the block directly to a wall. Use two 5/16-inch No. 6 screws when mounting on an electrical box or 63B bracket. A 191C backboard may be installed where wall imperfections exist. Use fastener package provided with block. Depending on mounting arrangement, select proper fasteners from Table B and

install the block using holes designated in Fig. 17. Refer to paragraph 4.01 for connections.

**3.16 630B Connecting Block:** Mount the 630B connecting block (Fig. 19) on a standard electrical outlet box using 841020944 bracket or on a 63-type bracket, or directly on a wall. In all cases, the block should lie flat against the wall. When installing on an underflush outlet box or plaster ring, the connecting block bracket should be tightened just enough so the assembly is tight on the wall once mounting plate is attached and tightened down. Use the two 3/16-inch No. 6 faceplate screws when mounting the block directly to a wall. Use two 5/16-inch No. 6 screws when mounting on an electrical box or 63B bracket. A 919C backboard may be installed where wall imperfection exist. Use fastener package provided with block. Depending on mounting arrangement, select proper fasteners from Table B and

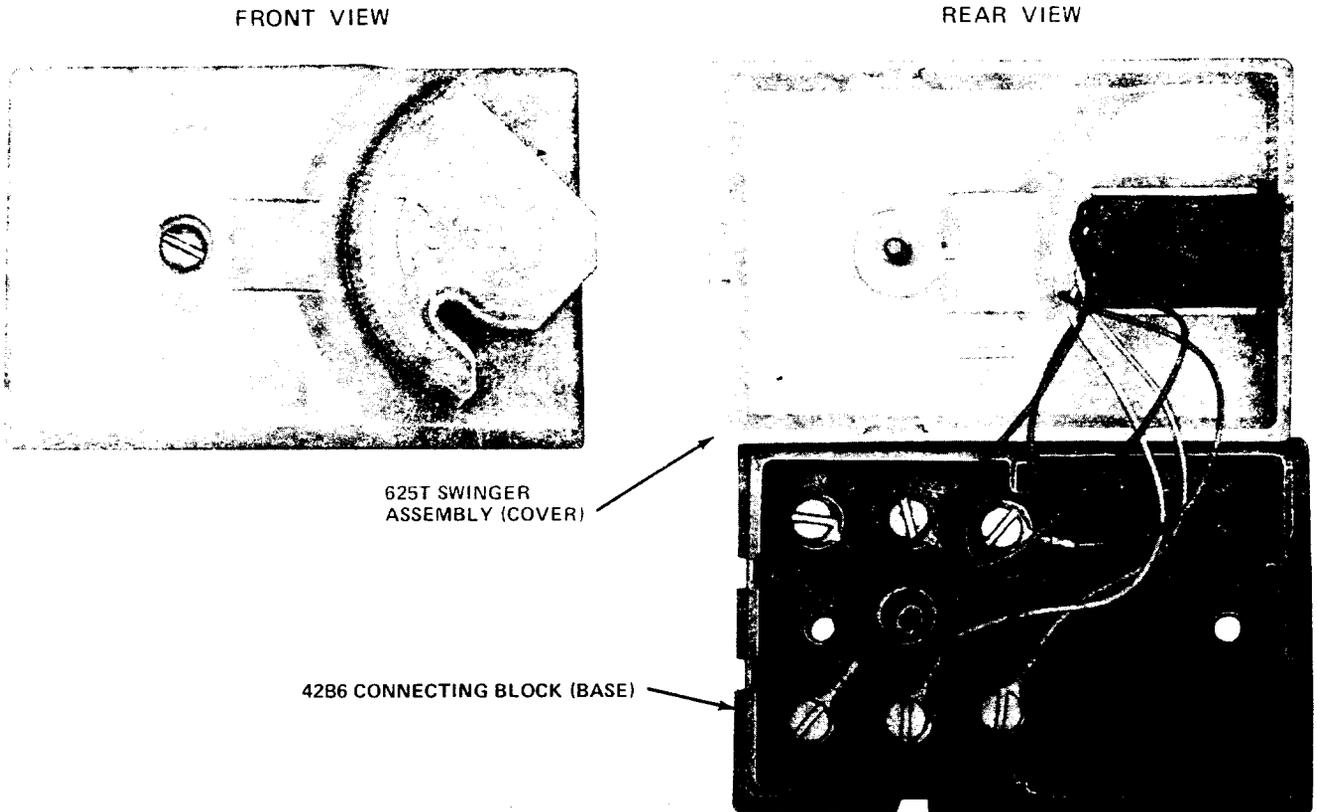


Fig. 12—625S6 Connecting Block

install the block using holes provided in bracket (Fig. 19). Refer to paragraph 4.01 for connections.

**3.17 635B Connecting Block:** Mount the 843126939 base (Fig. 20) to a vertical surface. Connect the line and control leads to the base screw terminals (Fig. 21). Fasten the 841026057 cover to the base. If the optional 652A jack (ordered separately) is to be installed, connect as shown in Fig. 21. Mount the label that comes with the connecting block on the protector or a conspicuous location specified locally. The 635B replaces the 635A (MD) connecting block.

**3.18 725FS Connecting Block:** Mount the 842615544 bracket (Fig. 22) on 800A or 800C station wire box using hardware furnished with bracket. Feed the jack push-on connectors through bracket opening and terminate on terminals in station wire box. Fasten the swinger-type cover (faceplate) to the mounting bracket. The red push-on goes on the upper right terminal, the green on the upper

left, the yellow on the lower right, and black on the lower left.◆

**3.19 725FSA Connecting Block:** Mount the 842615544 bracket (Fig. 25) on a standard electrical outlet or 63B prewire bracket. Feed wiring through bracket opening and terminate on the 990A split-beam connectors. Fasten the swinger-type cover (faceplate) to the mounting bracket.

**Note:** Do not remove the insulation from individual leads before terminating them in the split-beam connectors.◆

**3.20 742A Connecting Block:** Mount the base (Fig. 24) to a vertical surface. It is for use as an entrance bridge in conjunction with a 625TD connecting block (standard network interface) or any other modular jack outlet. Terminate wiring on the 990A split-beam connectors. Plug the modular cord into the network interface connecting block jack. Fasten cover to the connecting block base.

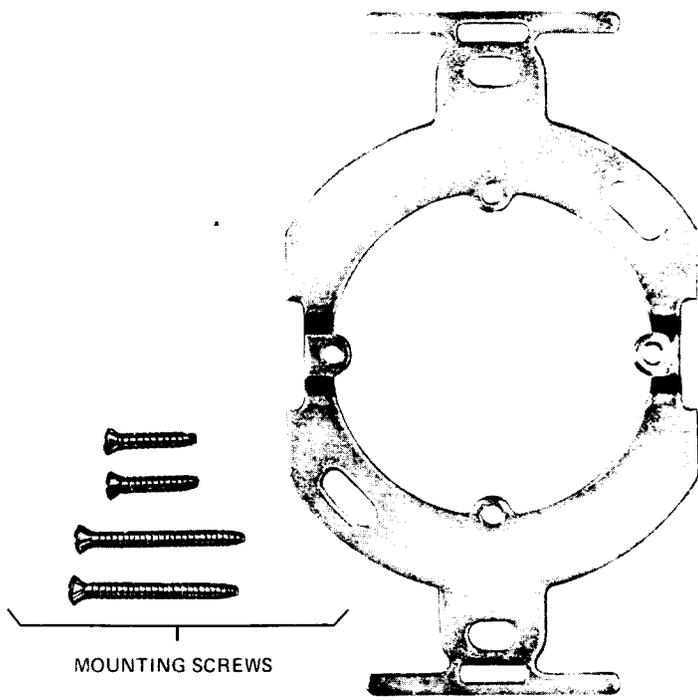
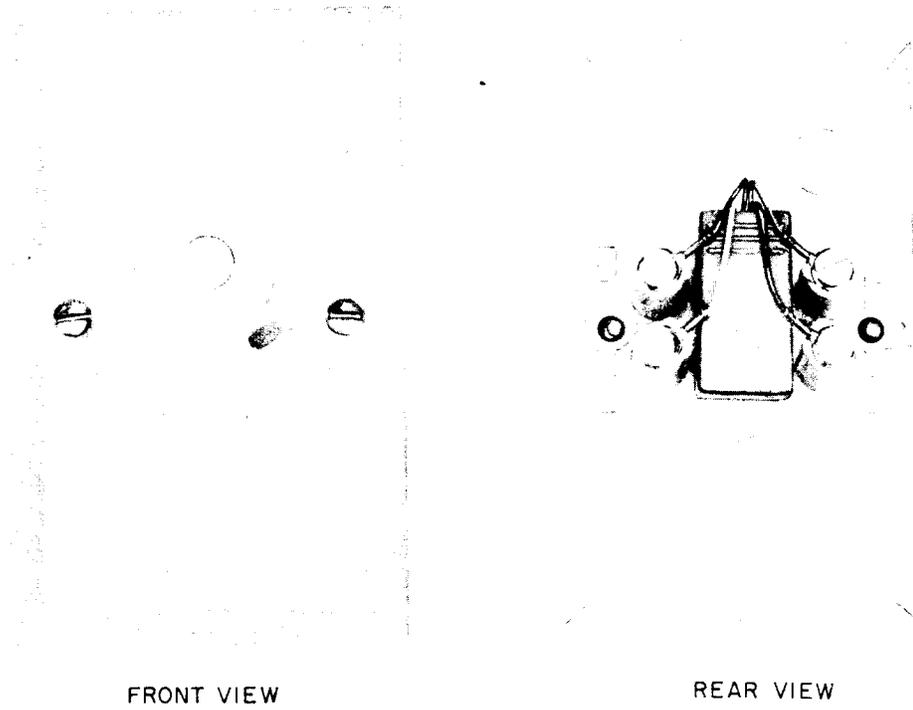


Fig. 13—625FS Connecting Block

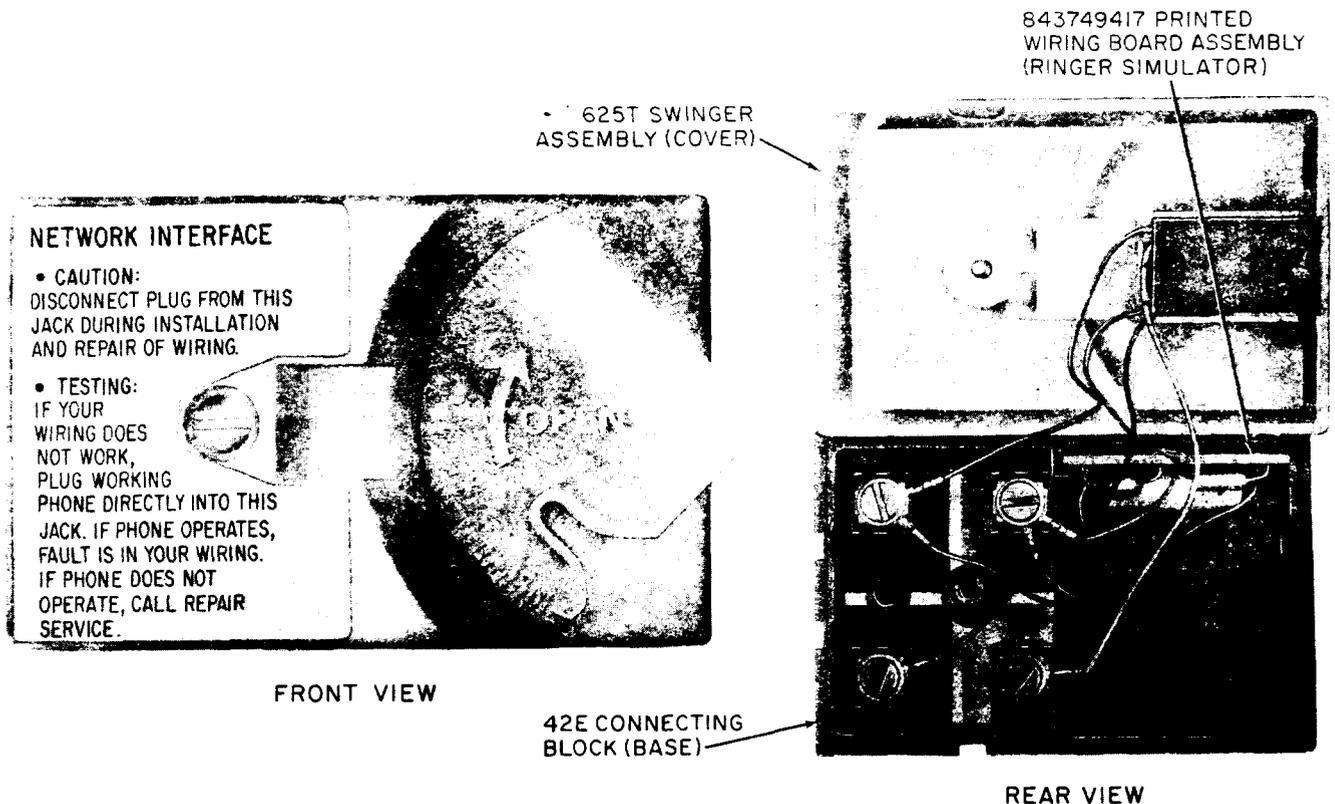


Fig. 14—625TD Connecting Block

**Note:** Do not remove the insulation from individual leads before terminating them in the split-beam connectors.⚡

◆3.21 **742B Connecting Block:** Mount the base (Fig. 25) to a vertical surface. It is for use as a line bridge whenever a hard-wired bridging point is needed. Terminate wiring on the 990A split-beam connectors. Fasten cover to the connecting block base. The 742B could be located at the network interface where more than four wires require termination.

**Note:** Do not remove the insulation from individual leads before terminating them in the split-beam connectors.⚡

◆3.22 **830A4 Connecting Block:** Terminate the push-on connectors on the wire box terminals. Red push-on goes on the top right terminal, green on the left, yellow on lower right, and black on lower left. Mount the 841020944 bracket to an 800A or 800C station wire box using the appropriate screws

provided. Make sure the bracket is vertical. Fasten the mounting plate to the bracket using mounting screws provided (Fig. 26). Remove the plastic covering from the mounting plate.⚡

#### 4. CONNECTIONS

##### 630-TYPE CONNECTING BLOCK

4.01 The 630-type connecting blocks may be used with exposed or concealed station wire. Each quick-connect terminal (total of four) provides three station wire terminations per lead. One termination is required for the jack conductor. An access for a test point is also provided (Fig. 17).

**Note:** The 630-type connecting blocks manufactured after March 1977 are received from the factory with a plastic protective wrapper folded around the quick-connect terminals. To connect station wire, fold out the front and side flaps, make connections and dress leads (Fig. 18 or 19),

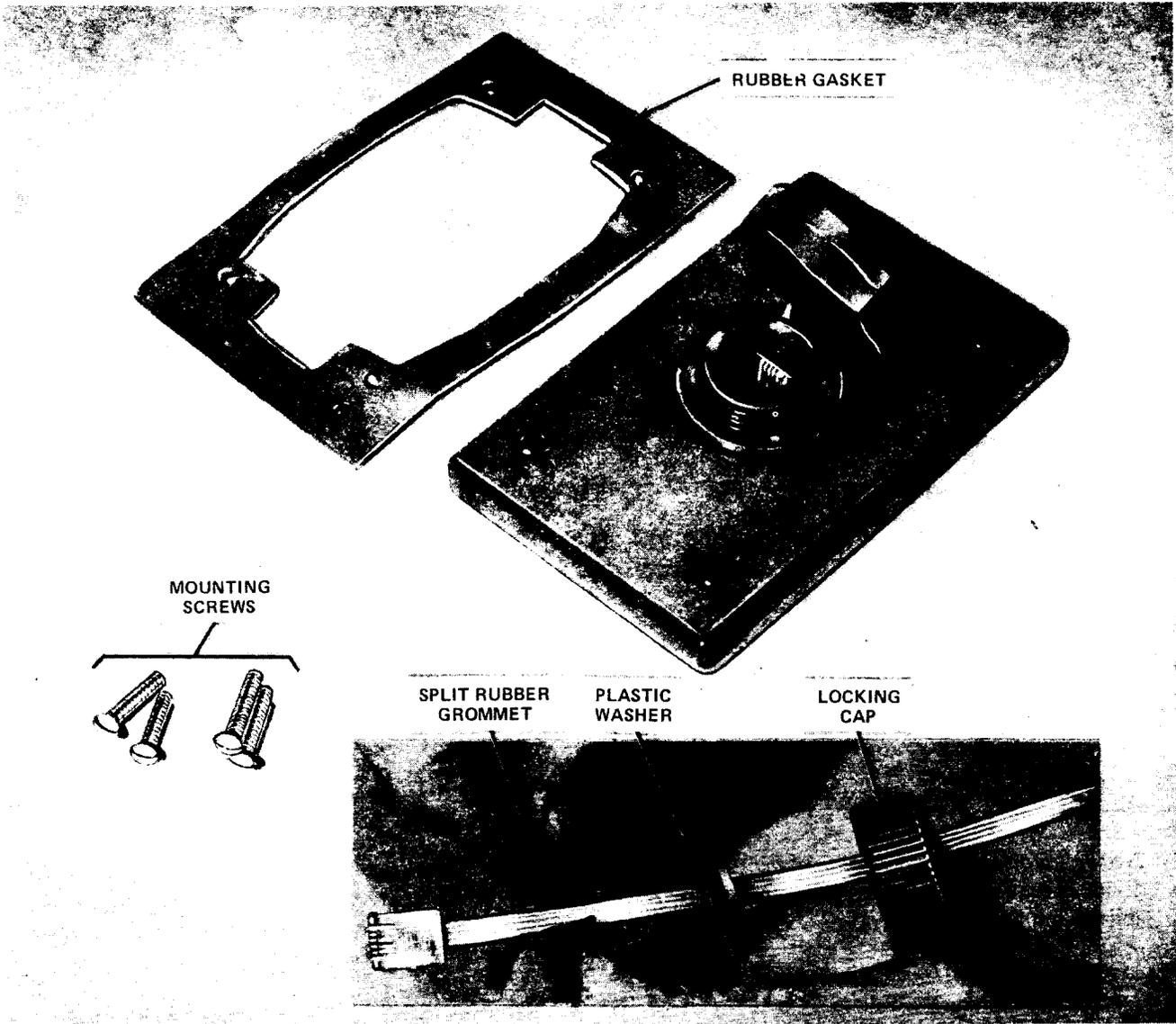


Fig. 15 — 625WP4 Connecting Block

then *refold wrapper across terminals*. This wrapper protects the terminals from foreign matter and moisture and also prevents wire ends from making contact with 1034A mounting plate. If a 630-type connecting block without this protective wrapper is used, insulating tape should be applied to the inside surface of the 1034A mounting plate to prevent any wire ends from making contact with the plate.

4.02 Make connections as shown in Table A as

follows.

- (1) Leave station wire conductors unstripped.
- (2) Dress the conductors so they will not be pinched or cross over each other.
- (3) For 630A4 connecting block, use the lead insertion tool to seat conductors in bottom of slots (Fig. 18). Do not use a screwdriver to insert wires. Do not twist or rock insertion tool and allow suffi-



Fig. 16—630A4 Connecting Block (With Mounting Plate)

cient slack. Do not insert more than one conductor in each slot. Trim the terminated leads approximately 1/4-inch from the connecting surface and bend downward so that the conductor tips will not make contact with the mounting plate. The 630B connecting block is furnished with two 841436108 quick-connect clips for easy installation (termination of station wire) without using an insertion tool. Install the clips as follows:

- (a) Hold one of the clips so the long tab points up and is facing you. Place the yellow conductor back to front into either of the grooves on the right side of the clip. Bend the conductor down so that it rests in the grooves on both sides of the clip.
- (b) Repeat Step (a) with the green conductor, placing it in either groove on the left side of the clip.

- (c) Connect the clip to the bottom of the connector that has the yellow and green conductors already attached.

- (d) Using the second clip, repeat Steps (a), (b), and (c), placing the red conductor on the right and the black conductor on the left.

- (e) Using a screwdriver, push the clips up onto the connectors so the top of each clip rests just underneath the three holes in the connector.

- (f) Fold the plastic side flaps back in place, then fold down the top flap so the connectors are covered.

- (4) Attach mounting plate (Fig. 16 or 19) if block is fastened directly to a wall using the two 3/16-inch 800413577 cover mounting screws or two 5/15-inch 840705008 flathead machine screws from

MOUNTING HOLE ASSIGNMENT:

- (1) 840503973 BRACKET
- (2) GEM BOX AN NORMAL WALL SURFACE
- (3) OR (4) WEAK WALLS, OVERSIZE WIRING HOLE, LOCAL DAMAGE, ETC
- (5) 1034A MOUNTING PLATE
- (6) 841011398 PROTECTIVE WRAPPER

NOTE:

IF MORE THAN TWO FASTENERS ARE NECESSARY, USE ADDITIONAL MOUNTING HOLES AS REQUIRED

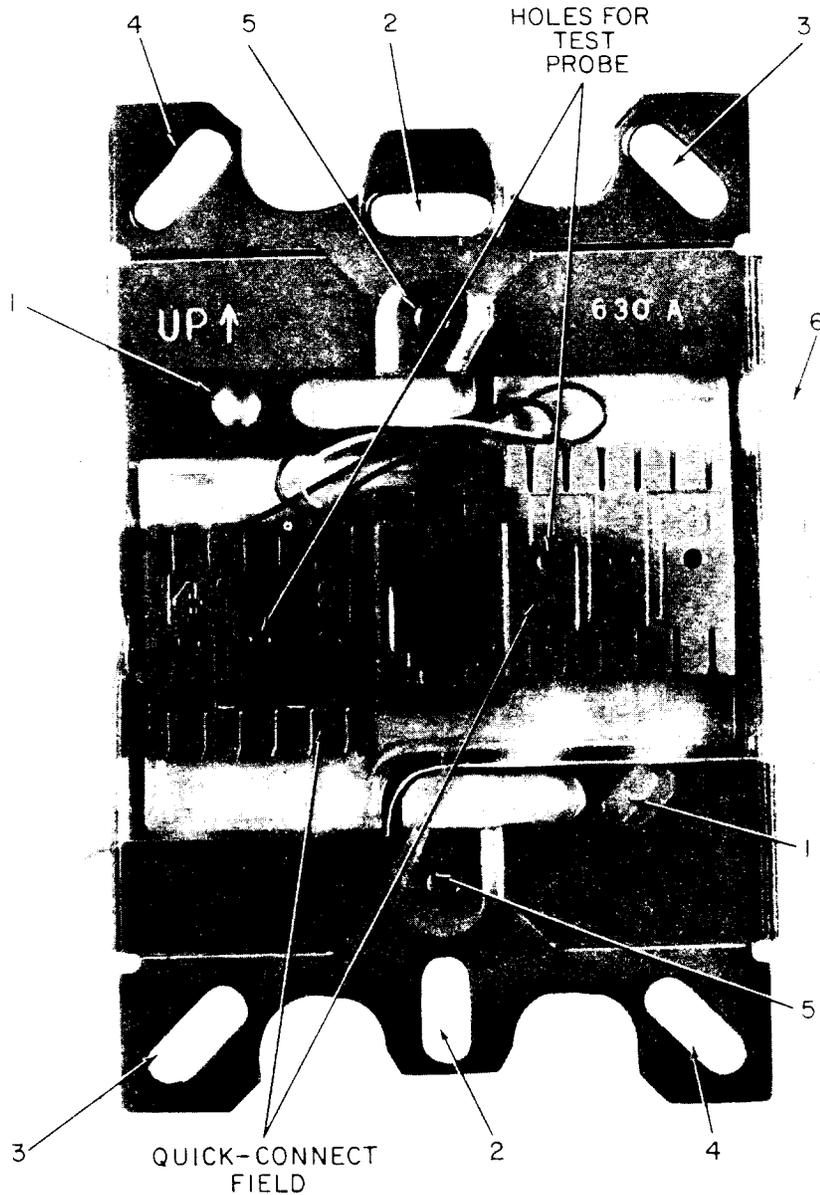


Fig. 17—630A4 Connecting Block (Without Mounting Plate) (See Note)

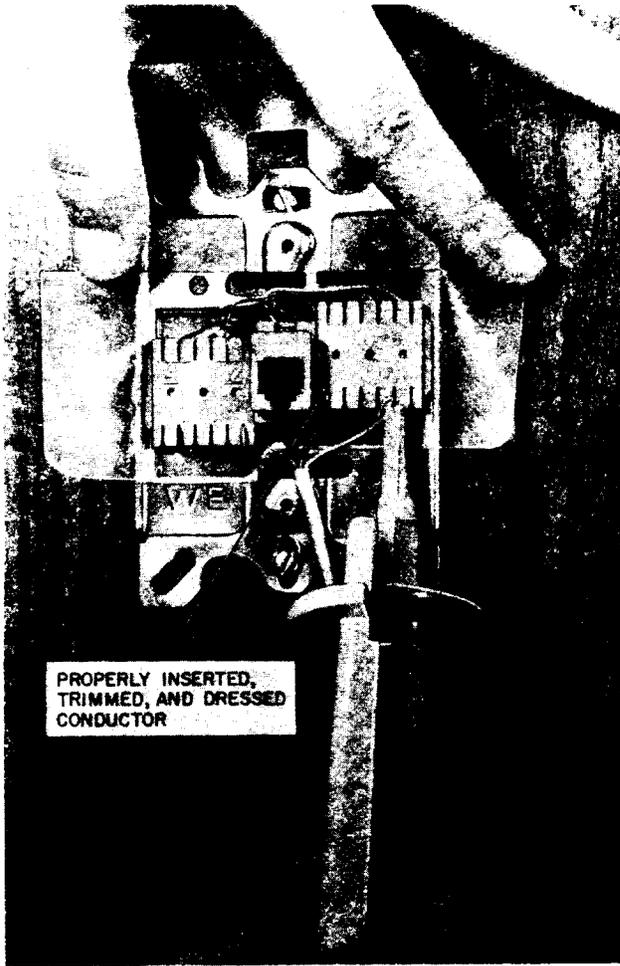


Fig. 18—Terminating Wire With Lead Insertion Tool in 630A4 Connecting Block

the fastener package when fastening to a gem box or bracket.

- (5) Remove the protective mylar cover from the stainless steel plate.
- (6) Check for continuity on each lead by inserting 934A tool or 523A4 plug and connecting test set.

**Note:** Use of heavy gauge (greater than No. 22 AWG), such as JKT station wire or heavily insulated GS-type station (MD) wire, may cause difficulty in installation and/or damage to the connecting block. Such wire should be used only where it is impossible to provide appropriate types (D, G, or H Station Wire or E Inside Wire). Do not strip insulation from conductors.

## 5. TESTING

### 934B TEST SET (Fig. 28)

- 5.01 The 934B test set is designed for accessing telephone lines accessed by modular termination.
- 5.02 The 934B test set has four brass plated terminals extending from it, one for each lead of the 4-wire modular jack it is testing to which hand telephone test set, other test set, tone generator, etc, leads can be clipped.

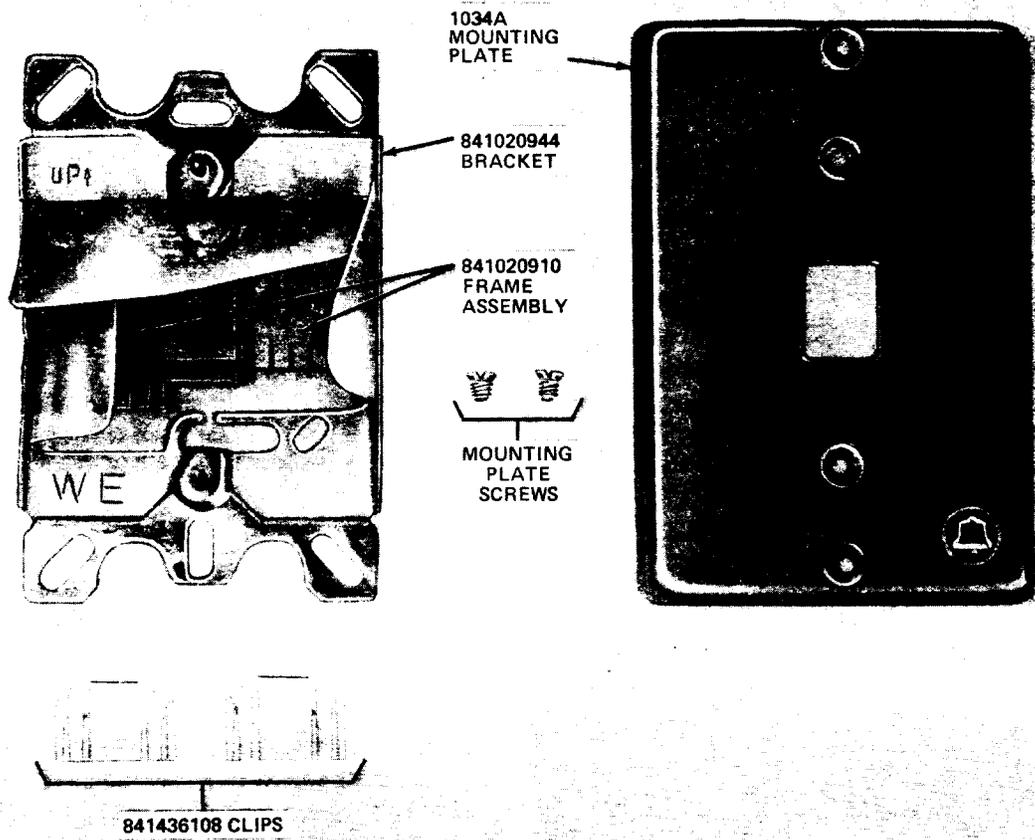


Fig. 19—630B Connecting Block

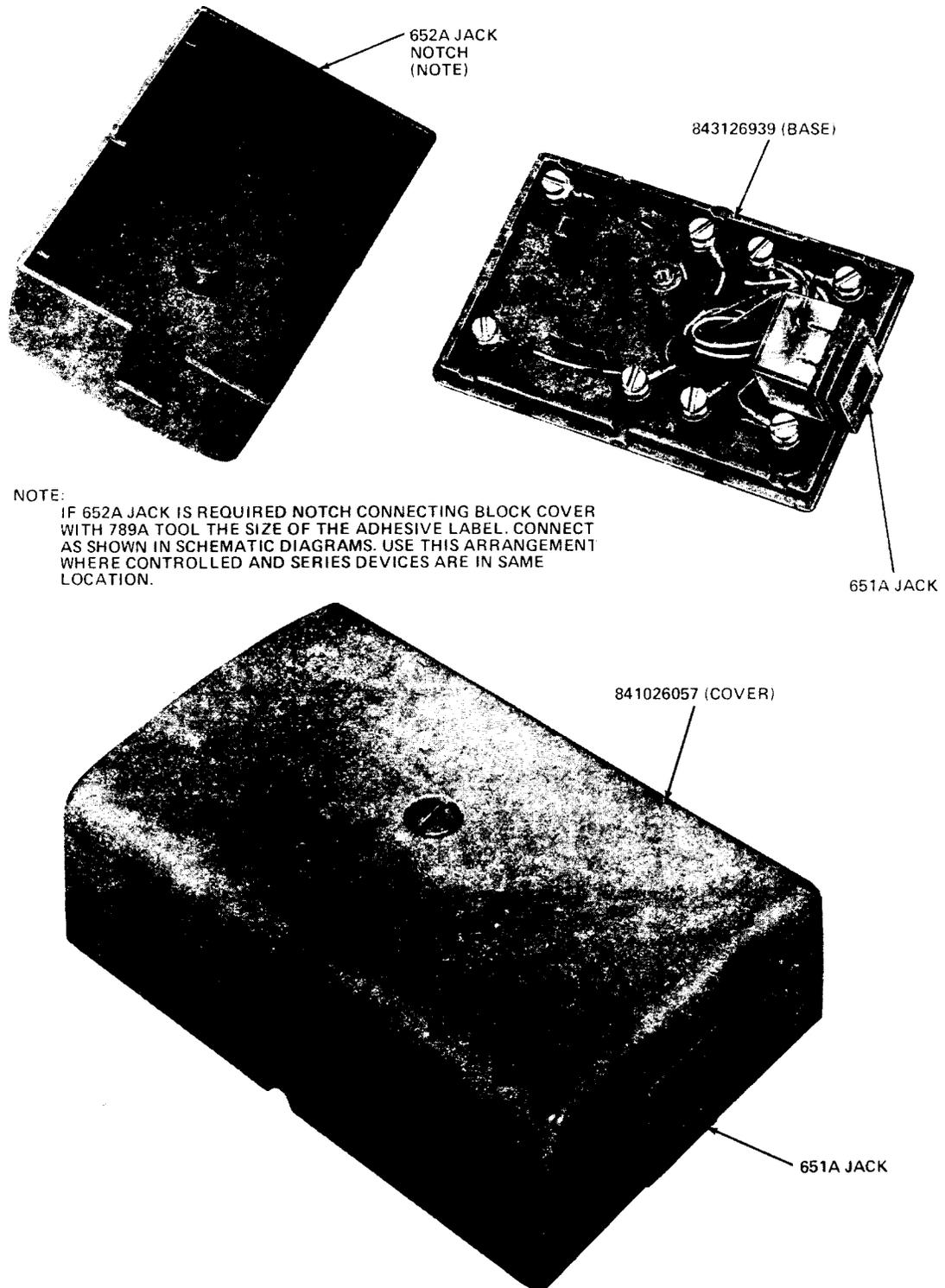
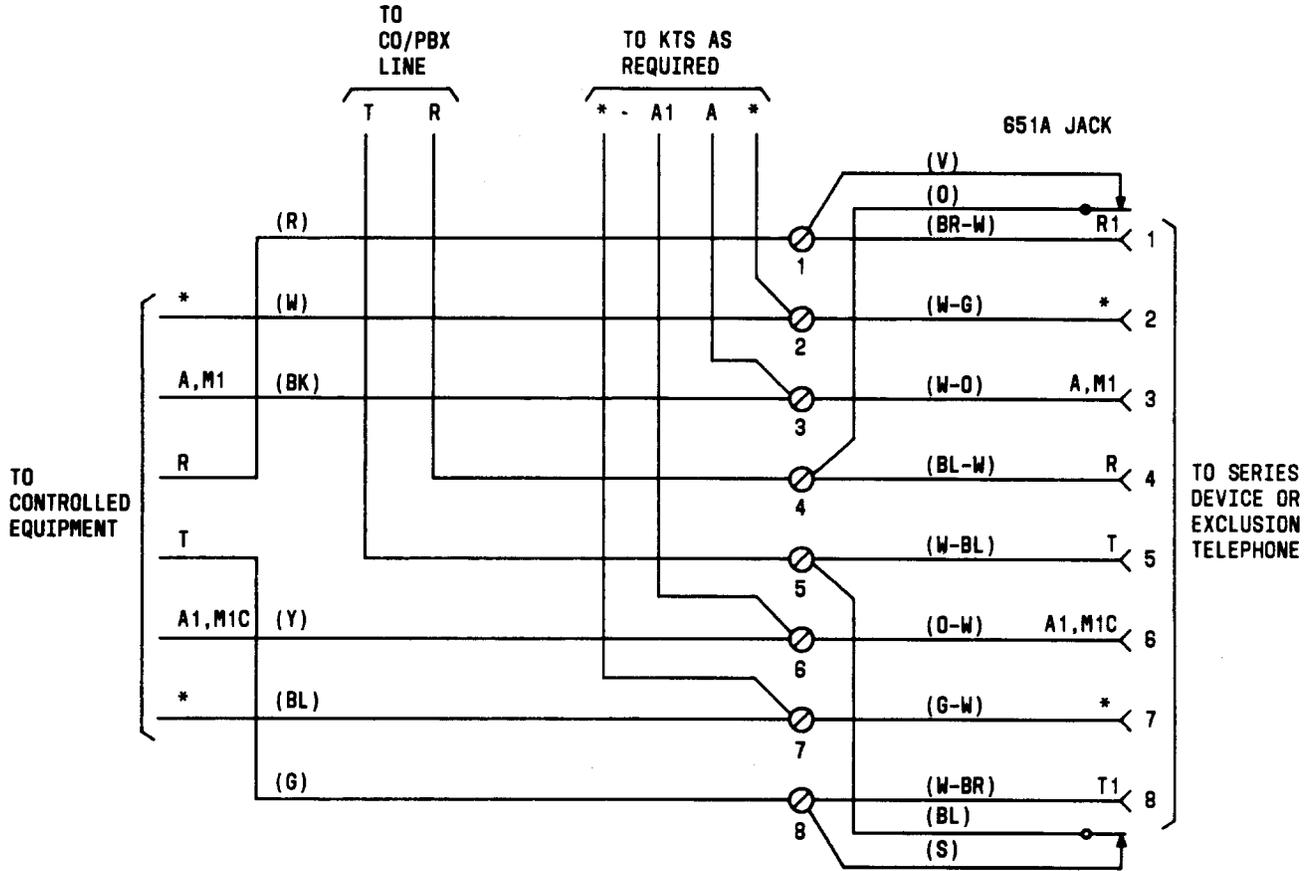


Fig. 20—635B Connecting Block



\* ASSIGN FUNCTIONS AS REQUIRED

Fig. 21 — Schematic Diagram, 635B Connecting Block (Series Service Same Location)

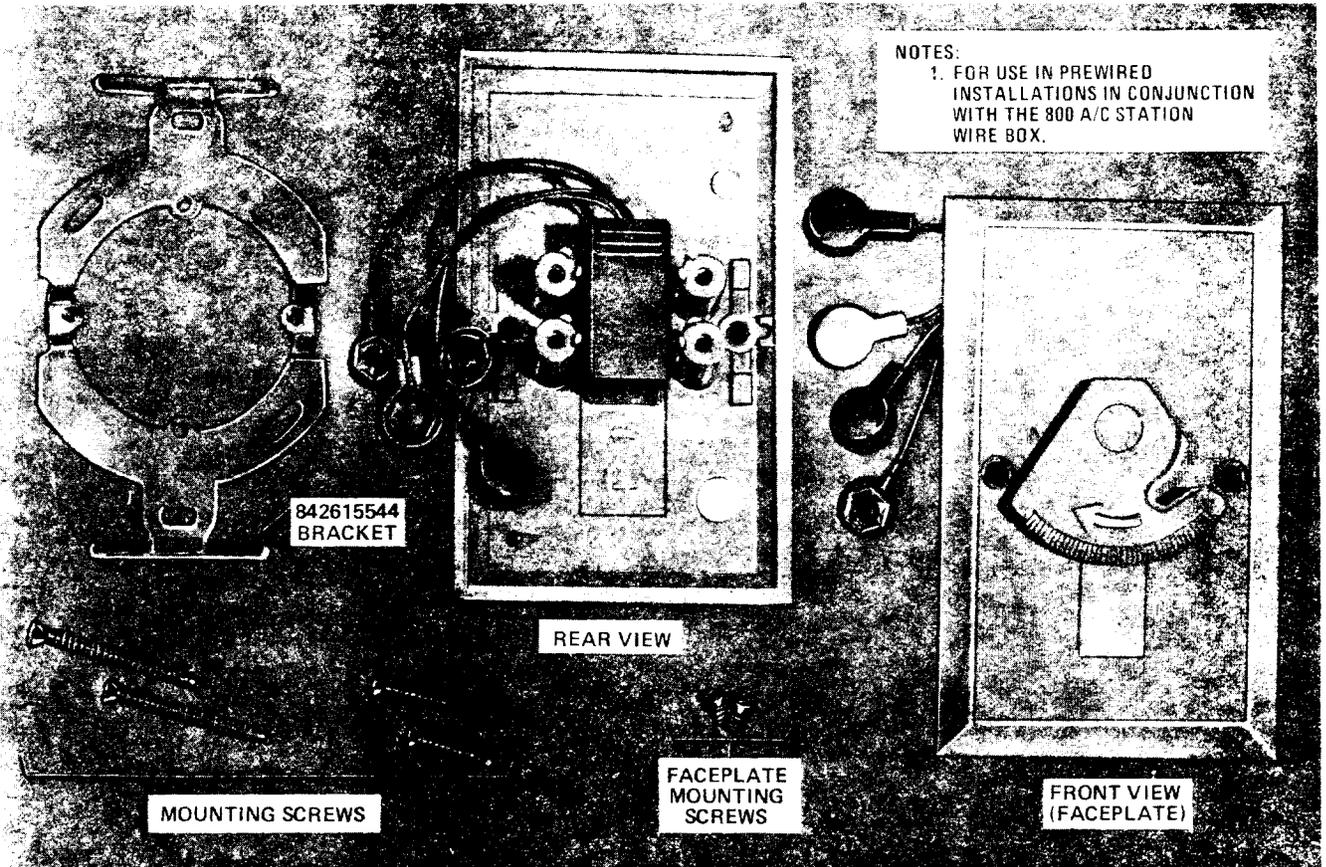


Fig. 22—725FS Connecting Block

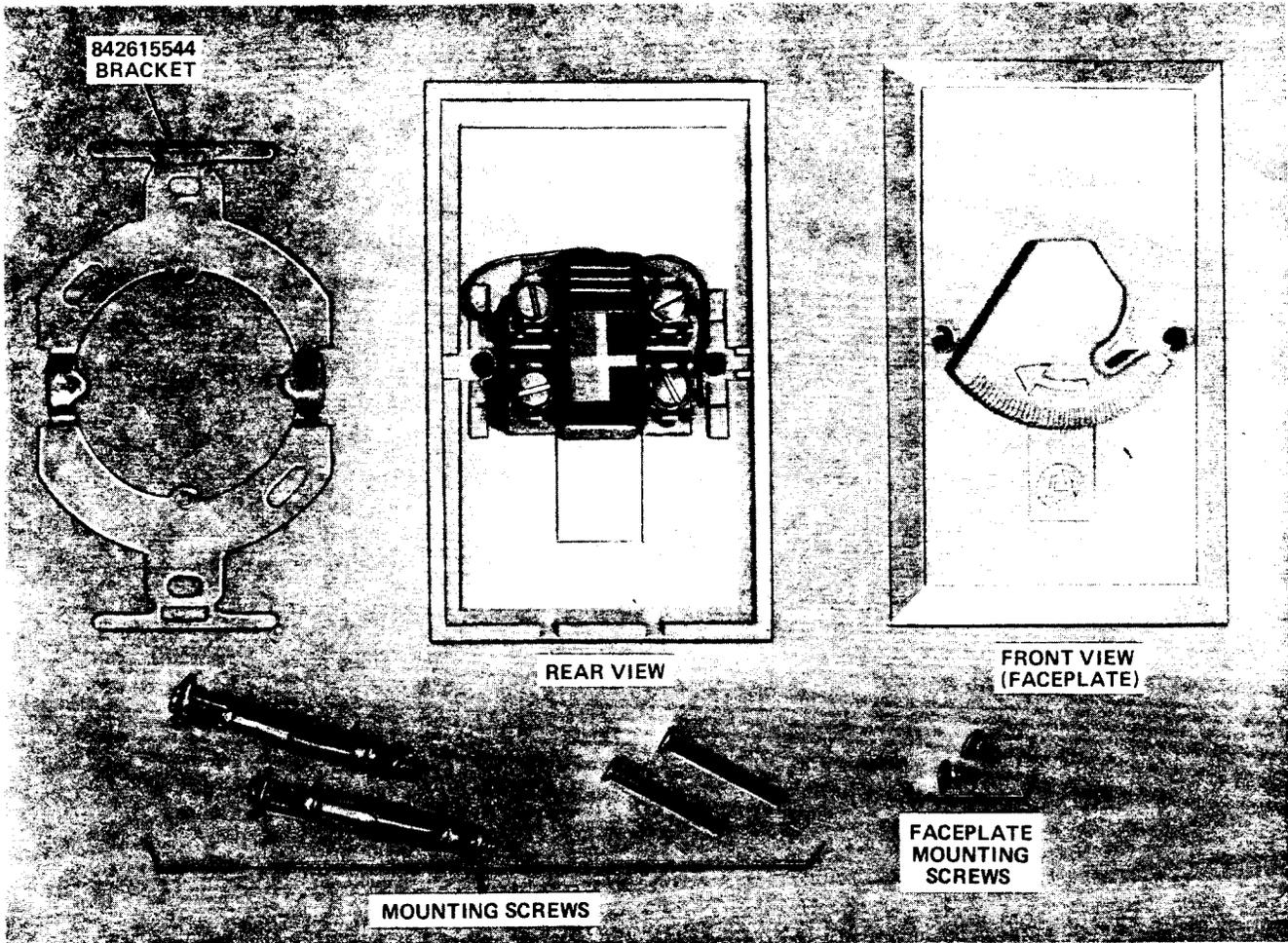


Fig. 23—725FSA Connecting Block

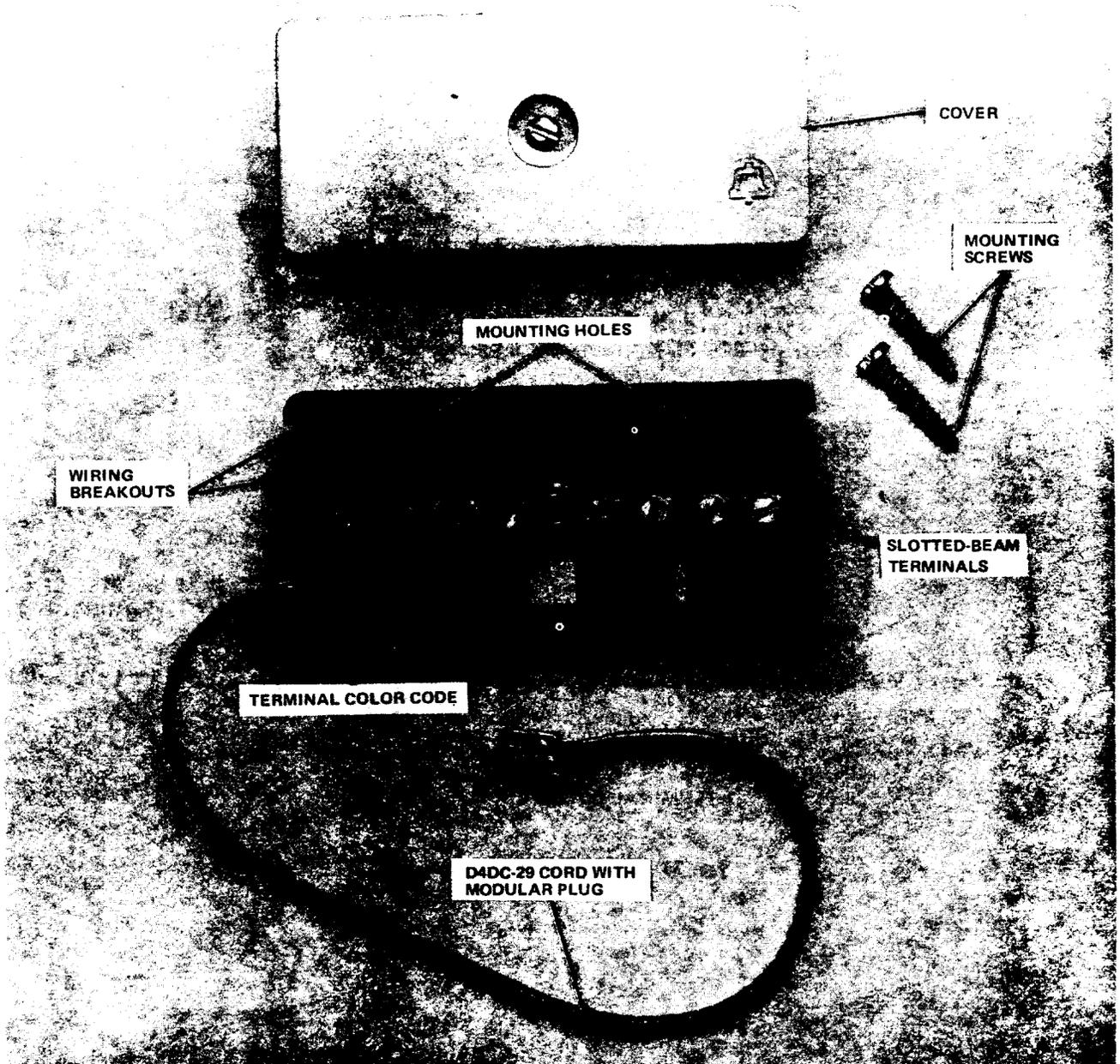


Fig. 24—742A Connecting Block

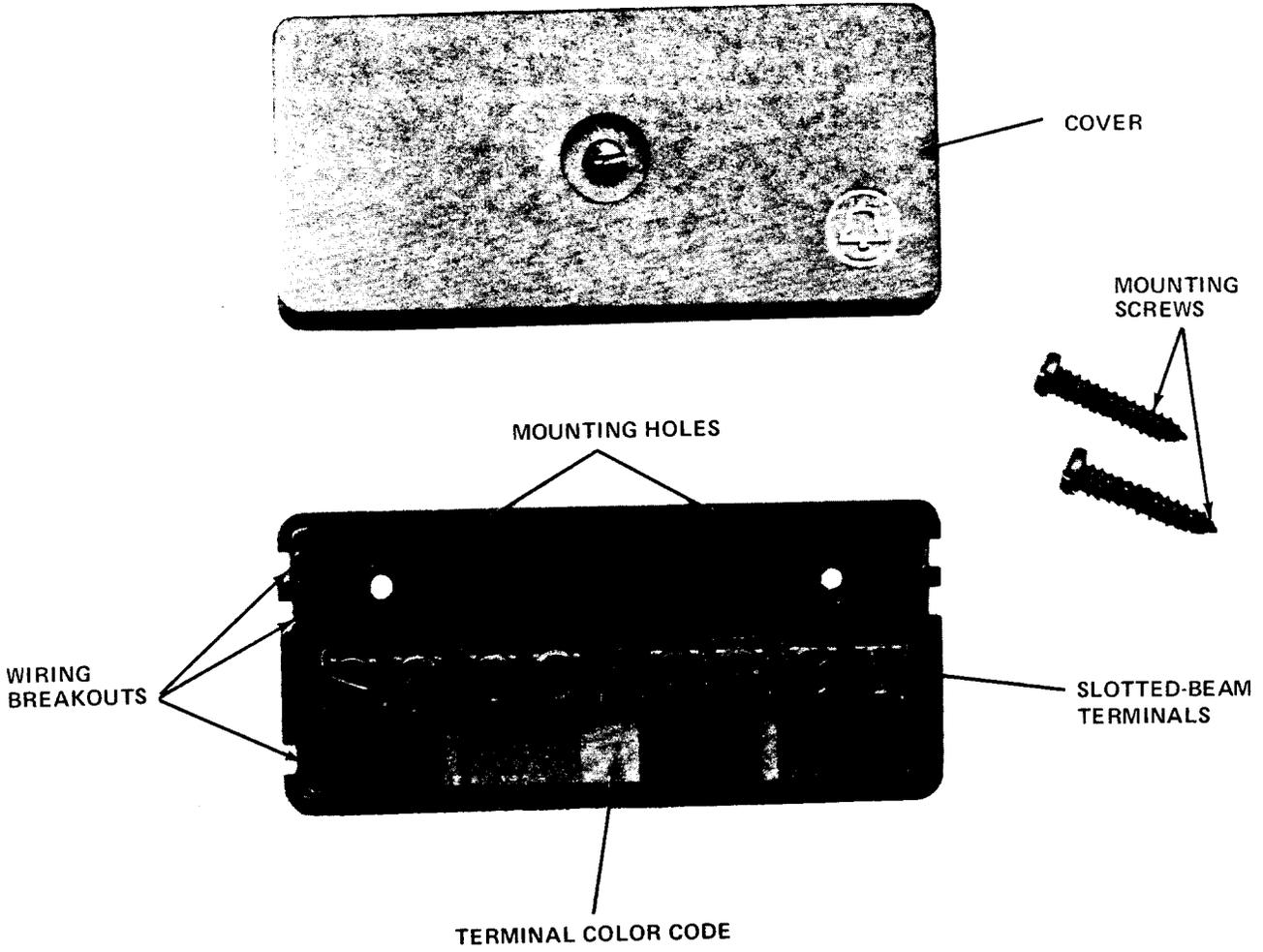


Fig. 25 — 742B Connecting Block

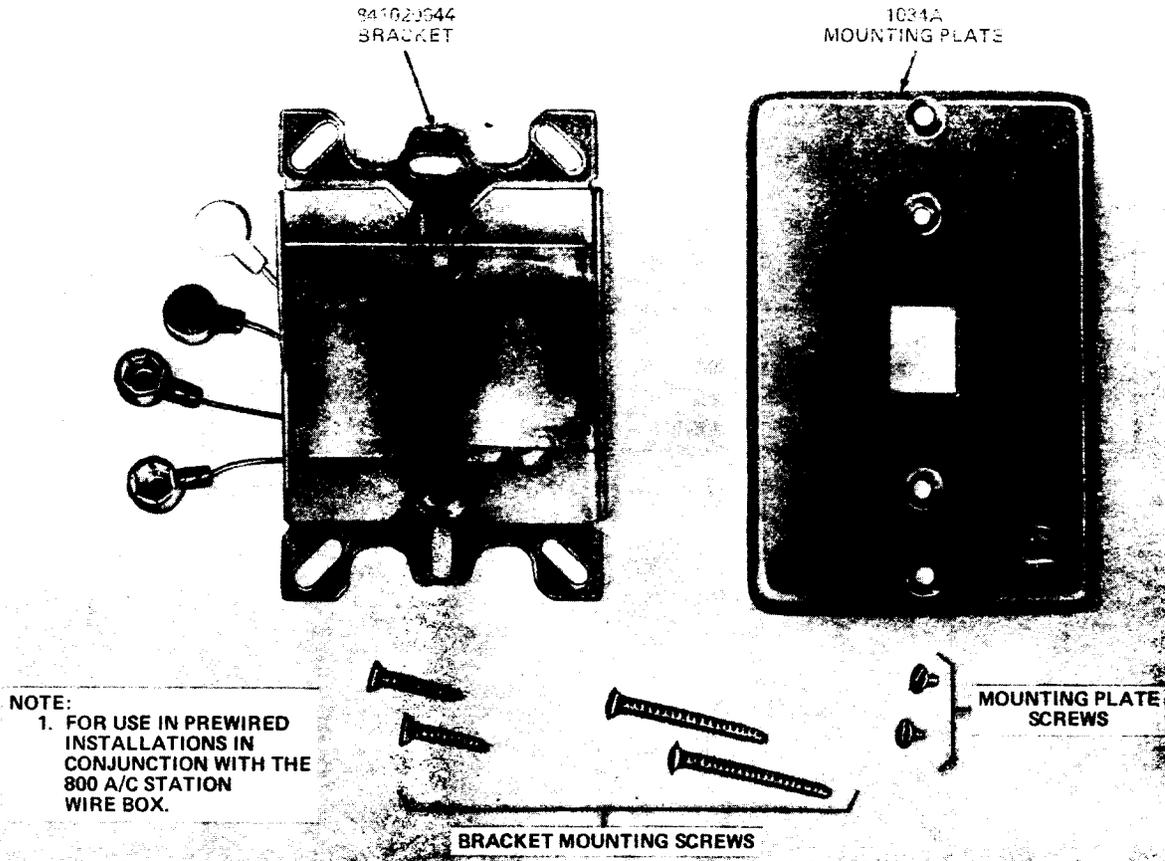


Fig. 26—830A Connecting Block

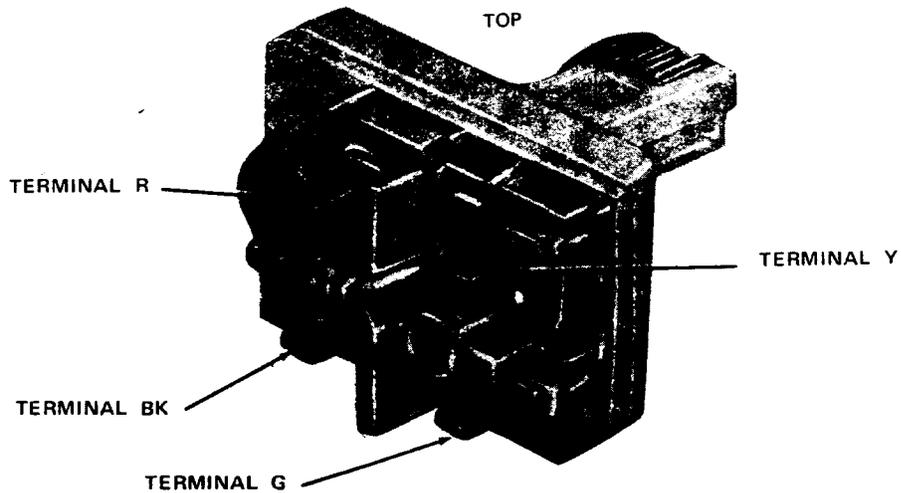


Fig. 27—934B Test Set

♦TABLE A♦

## MODULAR CONNECTING BLOCK CONNECTIONS

INSIDE WIRE					CONNECTING BLOCK		
HOSPITAL EKG LINE (NOTE)	1A1 OR 1A2 KTS	ONE-LINE SERVICE		TWO LINE SERVICE	TERMINAL		LEAD COLOR
		NO DIAL LIGHT	DIAL LIGHT		625-, 725-, OR 742- TYPE	630A4, 630B4	
Tip	Tip	Tip	Tip	Line 1 Tip	G	1	Green
Ring	Ring	Ring	Ring	Line 1 Ring	R	2	Red
	A		TRNSF	Line 2 Tip	B	4	Black
	A1		TRNSF	Line 2 Ring	Y	3	Yellow

**Note:** This line requires a miniature six position jack. Tip is connected to position 1 and ring to position 6.

♦TABLE B♦

## FASTENERS FOR MOUNTING 630-TYPE CONNECTING BLOCK

TO FASTEN CONNECTING BLOCK TO	QUANTITY (NOTE)	TYPE OF FASTENERS
1034A Mounting Plate	2	3/16-inch 800413577 flathead (No. 6-32) machine screw or 5/16-inch 840705008
Mounting Bracket, 63-Type Bracket or Gem Box	2	1-1/8 inch 841065529 flathead (No. 6-32) machine screw
Stucco	2	No. 8-15 by 1-inch tapping screw (840502744), Type AB*
Plaster on Wood Lath	2	B wall screw anchor, size 4 or 6† or molly screw
Plaster on Metal-Lath	2	
Paneling on Furring Strips	2	No. 6 by 1-inch wood screw‡
Plaster Board on Studs	2	B wall screw anchor, size 4 or 6† or molly screw
Hollow Masonry	2	
Solid Masonry	2	AB* steel anchors with No. 8-15 by 1-inch tapping screw, type B

**Note:** If connecting block is not securely fastened, additional fasteners should be used.

\* Equivalent size and thread engagement or greater. Tapping screws must always be sunk into lath, furring strips, or studs.

† Use size 4 anchors for walls up to 5/8-inch thick and use size 6 anchors for walls from 5/8-inch to 1-1/4 inch thick.

‡ Wood screws into stud or furring strip is required method.

♦TABLE C♦

EQUIPMENT REQUIRED—BY USOC CODE

USOC CODE	625A, 625C, 625S, 625SA, 625S6, 625TD, 725FS, 725FSA (NOTE 1)	625B, 625D4, 625D6, 625F, 625FS, 625WP4 (NOTE 2 AND 3))	625H	630A, 630B, 830A	635-TYPE
RJ11C	•	•			
RJ11W				•	
RJ12C	•	•			
RJ12W				•	
RJ13C	•	•			
RJ13W				•	
RJ14C	•	•			
RJ14W				•	
RJ17C			•		
RJ31X, RJ32X, RJ33X, RJ34X, RJ35X, RJ36X, RJ37X, RJ38X					•
RJ61X	•	•			

**Note 1:** For surface-mounted installations.

**Note 2:** For flush-mounted installations.

**Note 3:** The 625WP4 is mounted in a B outlet box which can be either surface- or flush-mounted.