

## 308-TYPE CONNECTORS

### DESCRIPTION, USE, INSTALLATION, AND REPAIR PROCEDURES

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<b>1. GENERAL</b>		
<b>1.01</b>	This practice covers the description, use, installation, and repair procedures for 308-type connectors.	
<b>1.02</b>	This practice is issued as a part of a general restructuring, updating, and combining of the 201-series of practices. The following practices are combined with this practice:	
	<ul style="list-style-type: none"><li>• 201-208-101</li><li>• 201-208-802</li></ul>	
<b>1.03</b>	The 308A1, B1, or E connector is used to terminate outside plant cables and provide facilities for tie pairs to the MDF on the high-density modular protector frame (ED-97898-31).	
<b>1.04</b>	The 308A3, B3, or E2 connector is used to terminate outside plant cables and provide facilities for tie pairs to the MDF on the low profile double-sided conventional protector frame or a modified ED-97755-70 frame. These connectors, used for double-sided protector frames, have a hinged mounting	

bracket that allows the connector panel to swing out for access to the backplane cable.

**1.05** The 308-type connectors, with protector units, provide features for voltage protection, current protection, testing, identification of special circuits, and disconnection of the outside cable pair from the central office equipment.

**1.06** The primary purpose of central office protection is to ensure the safety of telephone personnel and to reduce the possibility and extent of equipment damage in the event that foreign potential contacts the outside plant.

**2. DESCRIPTION**

**2.01** The 308-type connectors are divided into two basic types; Type 1 and Type 2.

**2.02** The 308-type 1 connector (Figure 1) is a high density connector used to terminate outside plant cables on the High Density Modular Protector Frame, ED97898-31. It provides electrical protection for 100 cable pairs when equipped with 3-, 4-, or 5-type protector units. The connectors are available with 22 or 24 gauge reversible cable stubs in 30, 50, 80, 100, 150, and 200 foot lengths. A 100 pair test terminal field is provided. The P or R test connectors mate with the test field for automatic or pair-at-a-time testing.

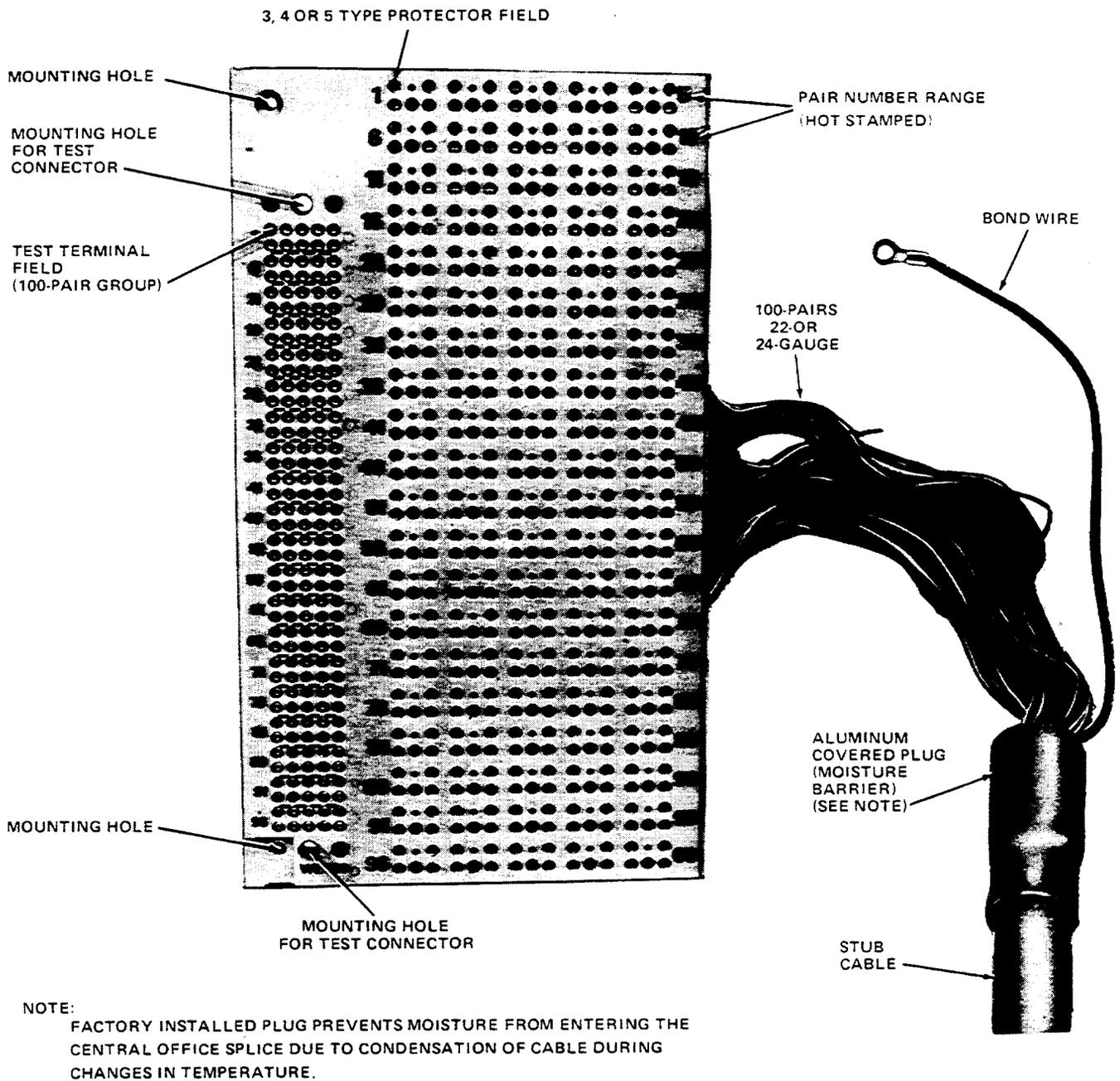


Figure 1—308-Type 1 Connector for use on High Density Modular Protector Frame

**2.03** The 308-type 2 connector (Figures 2 and 3) is a high density connector used to terminate outside plant cables on the ED97755-71 or modified ED97755-70 LPDPF (Low Profile Double Sided Protector Frames). This type is basically the same as the

308-type 1 connector except for its mounting arrangement on the protector frame. The 308-type 2 connector has a hinged mounting bracket which attaches to the vertical bar of the LPDPF. The connectors are available with 22 or 24 gauge reversible stubs in 30, 50, 80, 100, 150, and 200 foot lengths.

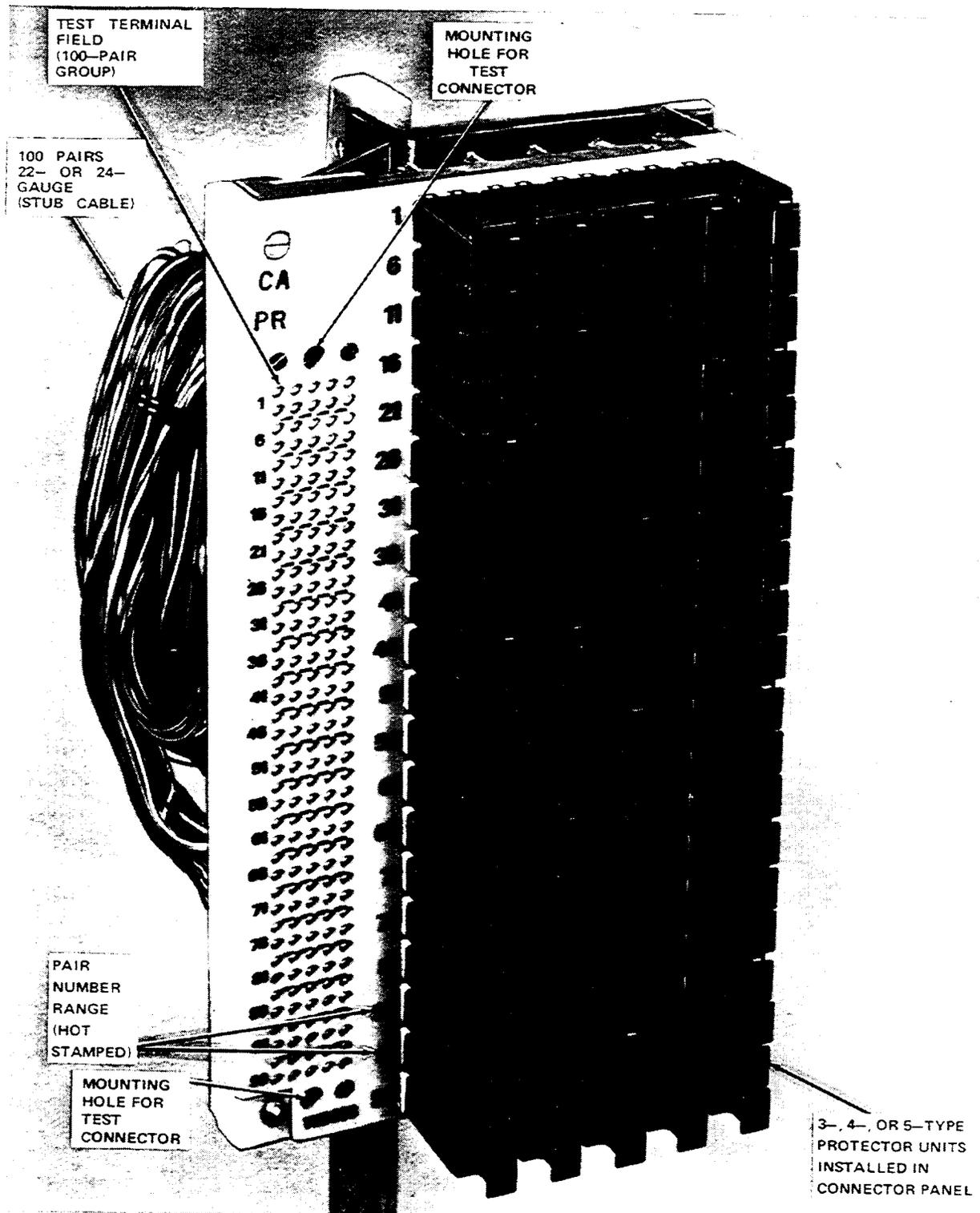


Figure 2—308-Type 2 Connector for use on Low Profile Double-Sided Conventional Protector Frame

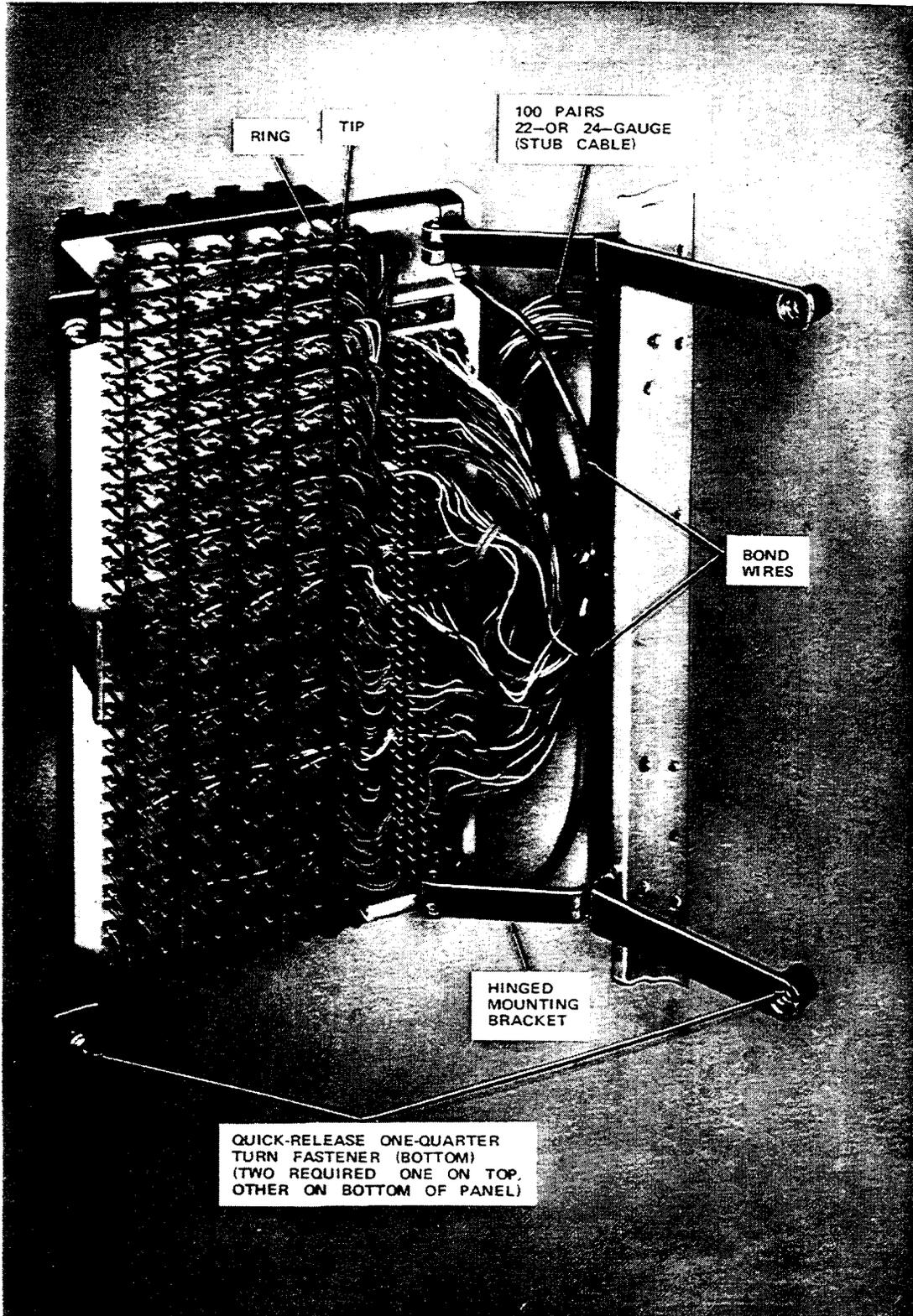


Figure 3—308-Type 2 Connector-Opened on Hinges — For use on Low Profile Double-Sided Conventional Protector Frame

**2.04** Common features of the 308-type 1 and 2 connectors are:

- Both have the same molded plastic panel that measures 10-5/8 inches high by 6 inches wide.
- Both contain a 100-pair test terminal field that can be accessed with either the multipair P test connector (AT-8906) or the single pair-at-a-time R test connector (AT-8916).
- Both use the same auxiliary devices, such as reversing plugs, mini-bridge lifters, test cords

and plugs, warning markers and guards, etc.

**2.05** Eight 308-type connectors can be mounted on one protector frame vertical to terminate 800 pairs.

**2.06** The front panel contains gold-plated terminals for a 5 by 20 array of 3-, 4-, and 5-type protector units (ordered separately).

**2.07** Table A lists the item codes and the frame applications.

TABLE A 308-TYPE CONNECTORS					
Frame Application	Stub Cable			Item Code (Note)	Comcode
	Wire Gauge	Length (Feet)	Cabling Direction		
High-Density Modular Protector Frame (ED-97898-31 Only)	24	30	Up/Down	308A1-100-30	103111829
		50		308A1-100-50	103111837
		80		308A1-100-80	103111845
		100		308A1-100-100	103111852
		150		308A1-100-150	103111860
		200		308A1-100-200	103111878
		300		308A1-100-300	103927422
	22	30		308B1-100-30	103111886
		50		308B1-100-50	103111894
		80		308B1-100-80	103111902
		100		308B1-100-100	103111910
		150		308B1-100-150	103111928
		200		308B1-100-200	103111936
		300		308B1-100-300	103927406
	No Stub*			308E1-100	103440679
Low-Profile Double-Sided Conventional Protector Frame	24	30	Up/Down	308A3-100-30	103760856
		50		308A3-100-50	103904827
		80		308A3-100-80	103904835
		100		308A3-100-100	103904843
		150		308A3-100-150	103904850
		200		308A3-100-200	103904868
	22	30		308B3-100-30	103760864
		50		308B3-100-50	103904876
		80		308B3-100-80	103904884
		100		308B3-100-100	103904892
		150		308B3-100-150	103904900
		200		308B3-100-200	103904918
	No Stub*			308E2-100	103283503

**Note:** 308A3-100 replaces 308A2-100 and 308C2-100  
 308B3-100 replaces 308B2-100 and 308D2-100.

\* Typically used for pair gain system terminals cabled to the connectors with switchboard cable.

- 2.08 Pair identification is hot stamped on the front of the molded plastic connector panel.
- 2.09 The 308-type connector has a single 100-pair gold-plated test terminal field which is located on the front of the connector and adjacent to the protector unit array. The test terminals are easily accessible for attaching test connectors and cords.
- 2.10 The protector frame is the interface dividing point between outside plant and the central office equipment. All pairs on the central office side of the connector are tie cabled to a distributing frame.
- 2.11 The 308-type connectors have factory-connected, color coded, 100-pair stub cable consisting of 22- or 24-gauge tinned-copper PVC (polyvinyl chloride) insulated conductors, mylar tape core wrapper, a corrugated aluminum shield under an outer olive-gray PVC sheath, and an aluminum-covered moisture plug at the terminated end of the stub cable.
- 2.12 Existing ED-97755-70 LPDPFs, require adapters to mount the 308A3 or B3 connectors. Adapter mounting bars and associated hardware should be ordered per H-400-087. This drawing provides the necessary hardware components to modify Group 1 assembly of the ED-97755-70 frame (6 verticals).
- 2.13 The 308A3-100 connector replaces the 308A2-100 and 308C2-100 connectors. The 308B3-100 connector replaces the 308B2-100 and 308D2-100 connectors.

TABLE B 308 TYPE CONNECTORS — REPLACED CODES	
STANDARD CODE	REPLACED CODE
308A1-100	—
308A3-100	308A2-100 308C2-100
308B1-100	—
308B3-100	308B2-100 308D2-100
308E1-100	—
308E2-100	—

- 2.14 The AT-8906P (multiple pair) and AT-8916R (single pair) test connectors are used for cable pair tests. Test sets, jacks, plugs, and cords used with the 302 type 1 connectors may also be used with the 308-type connectors. Equipment cables are terminated on wire-wrap terminals on the rear of the connector.
- 2.15 The 308-type connectors are also available in "E" codes which do not have factory-connected stubs and are typically used for pair gain system terminals cabled to the connectors with switchboard cable (Table A).
- 2.16 Table C is a stub cable gauge selection guide. Other guidelines for selecting the appropriate stub cable gauge for the 302-type connector and the appropriate gauge and length of fuse cable are in AT&T 916-559-770.

TABLE C STUB CABLE GAUGE SELECTION GUIDE	
ENTRANCE CABLE GAUGE	CONNECTOR STUB CABLE
26 Exposed or unexposed	22 or 24
24 Exposed or unexposed	22
22 Exposed	22*
19 Exposed	22*
22 Unexposed	22
19 Unexposed	22
* Provide a length of 24- or 26-gauge protective fusing cable.	

### 3. INSTALLATION

#### PRECAUTIONS

- 3.01 Store the 302- and 308-type connectors in a dry location. Do not leave these units on loading docks or in locations exposed to the weather.
- 3.02 When unpacking the connector, open the carton on the side marked OPEN FROM THIS SIDE.
- 3.03 Do not bend the cable stubs in a radius of less than 5 inches.
- 3.04 Do not bend the cable stubs to a 5-inch radius more than twice at the same general location.

3.05 Do not remove the Plypak cushion from the connector until it is ready for installation on the protector frame.

**INSTALLING 308-TYPE CONNECTORS ON HIGH DENSITY MPF (MODULAR PROTECTOR FRAMES)**

3.06 The MPF is 8 feet high, 6-1/2 feet long, and 1 foot deep. The 308-type connectors are mounted to the vertical members on the frame, resulting in 8 connectors per vertical. Each MPF module will accommodate a total of 96 connectors.

3.07 In locations *where the stub cables are dressed upward*, install the 308 (type 1) connector on the MPF as follows:

- (1) Mark the cable number and pair count of each stub on a linen tag or glass tape and attach to the stub cable before it is placed on the MPF.

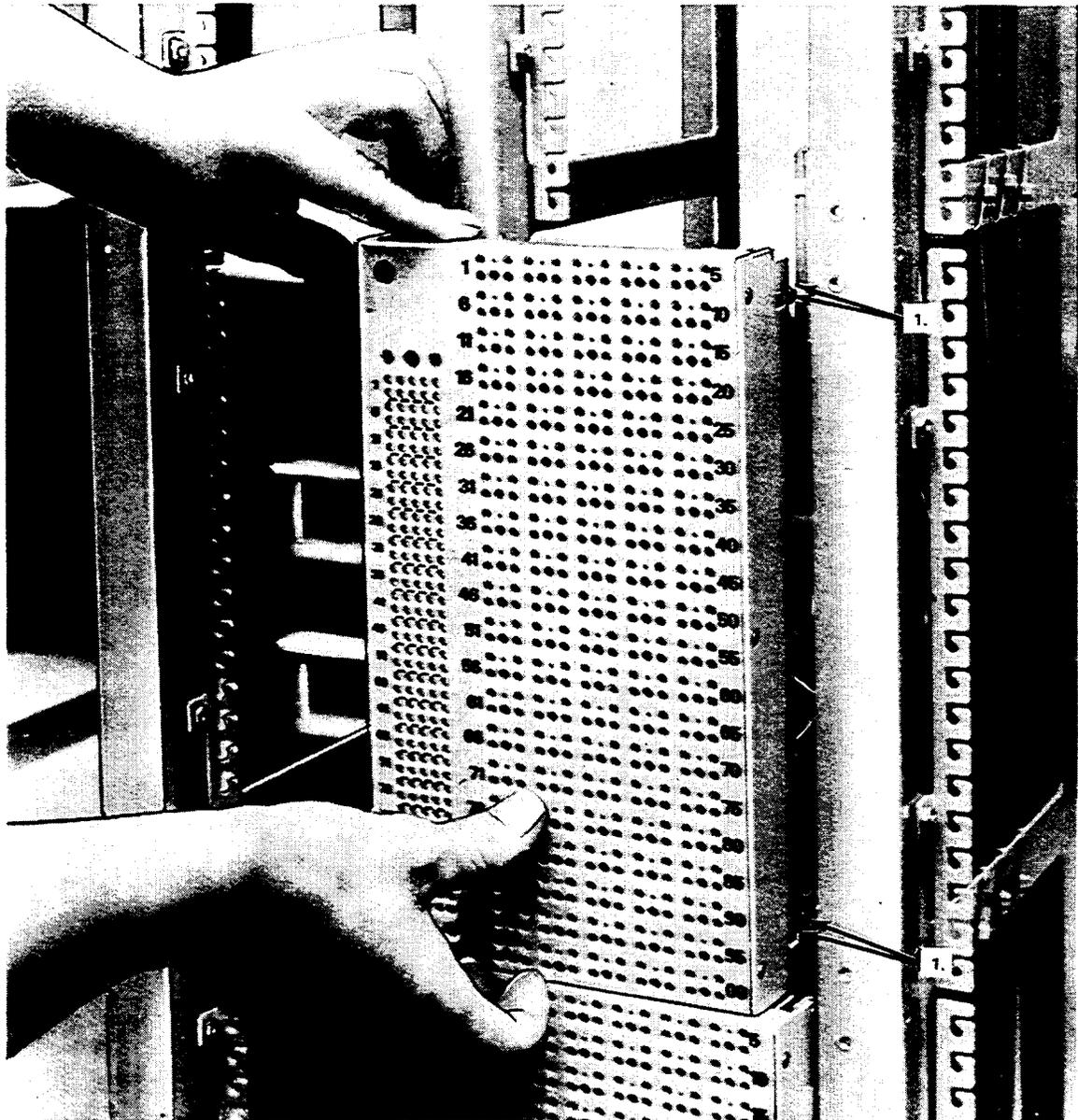
**Caution:** *If the stub cables are not tagged, cable identification procedures will be required to identify each connector before splicing.*

- (2) Remove the connector from the shipping carton and route the stub cable from the rear of the MPF. Remove any cable twist that may be present.

**Warning:** *To prevent damage to the contact pins, do not remove the packing material from the connector until it is ready for installation on the MPF.*

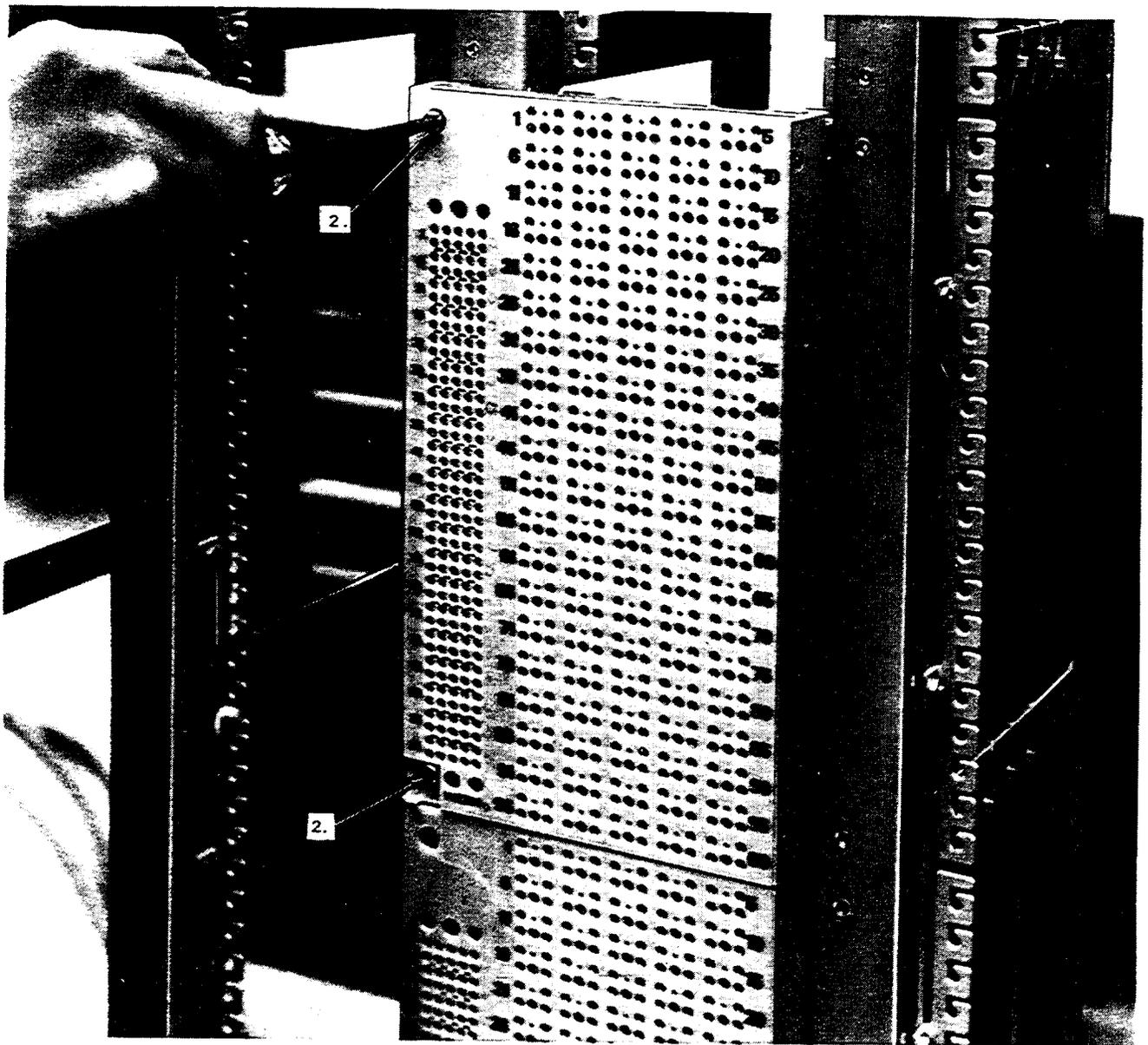
- (3) From the rear of the MPF, install the connector to the vertical members of the MPF, *starting at the top and working toward the bottom. It is recommended that the entire vertical be filled* and that the connectors are installed in the direction of the frame growth.

- (4) Secure the connector to the MPF by using the hexagon-head screws furnished with the connector (Figures 4, 5, and 6). It is recommended that a 5/16-inch socket, short extension, and ratchet be used to tighten the screws.



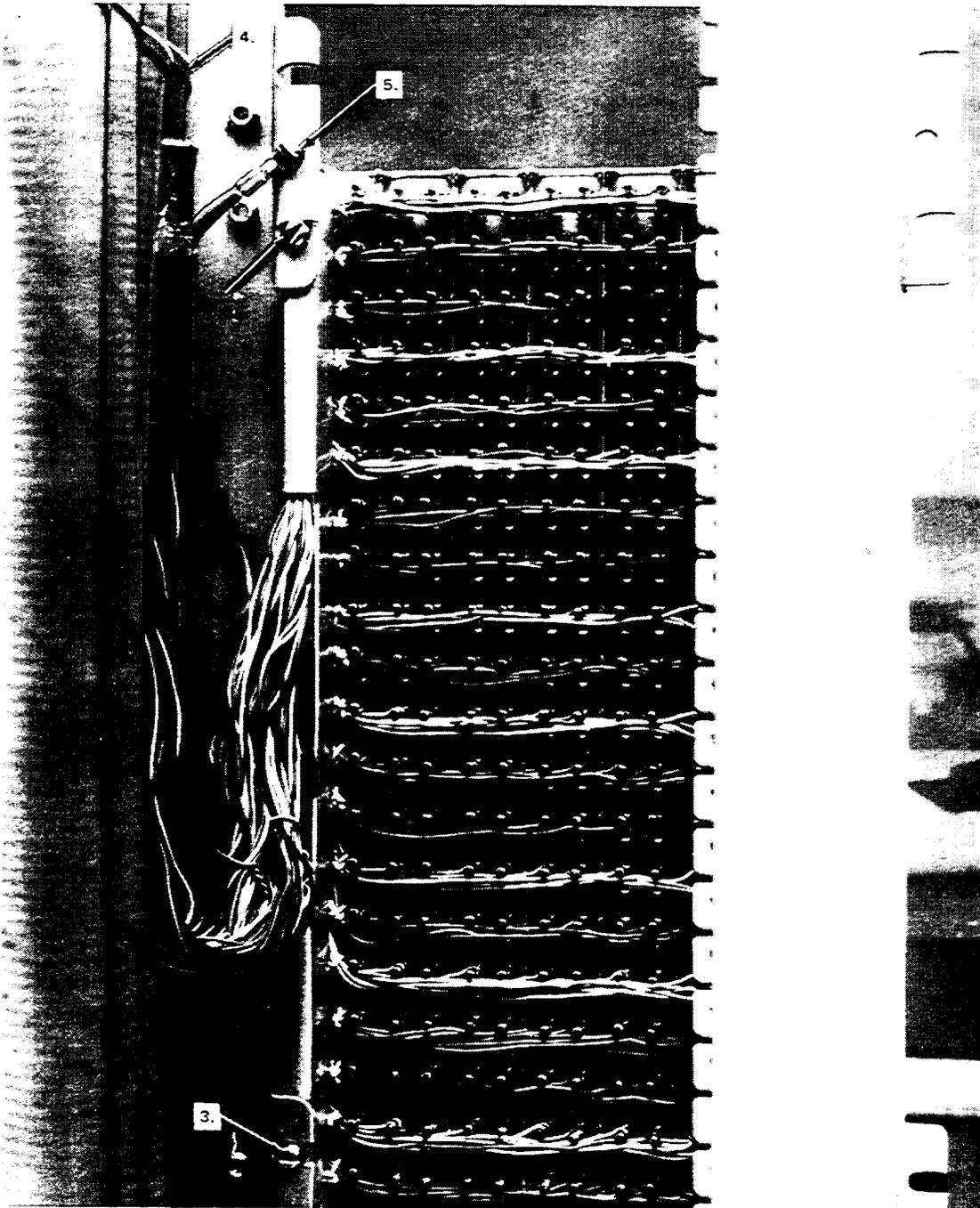
1. ALIGN REAR MOUNTING SCREWS WITH SLOTS IN FRAME WORK AND PLACE CONNECTOR INTO POSITION ONTO MPF.

Figure 4—Aligning Rear Mounting Screws on MPF—Front View



2. AFTER ALIGNING (TOP AND BOTTOM) FRONT MOUNTING SCREWS IN CONNECTOR WITH MOUNTING HOLES IN MPF, SECURE SCREWS.

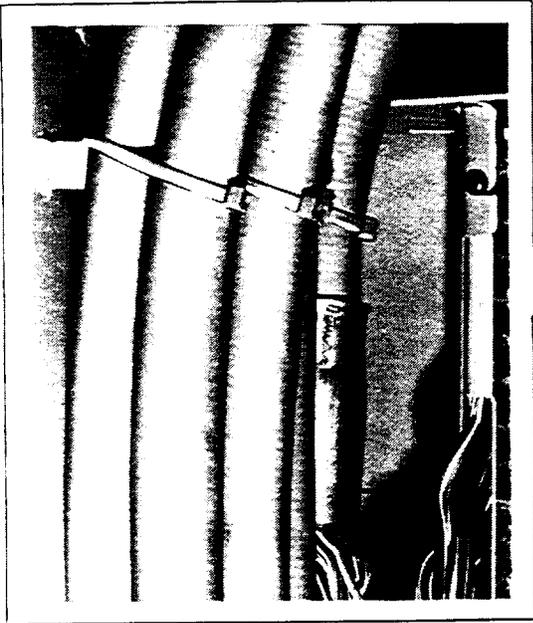
Figure 5—Securing Front Mounting Screws Onto MPF—Front View



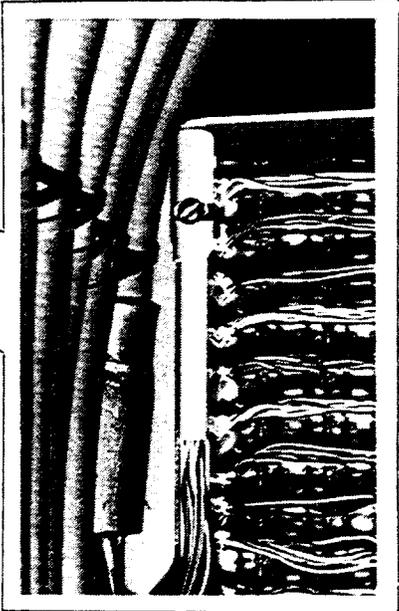
- 3. TIGHTEN REAR (TOP AND BOTTOM) MOUNTING SCREWS.
- 4. POSITION STUB CABLE. WITH CABLE TIE SECURE STUB CABLE TO RIB OF MPF
- 5. SECURE STUB CABLE BOND WIRE ONTO MPF.

Figure 6—Securing Back Mounting Screws, Stub Cable, and Bond Wire Onto MPF

(5) Position and secure the stub cable onto the MPF (Figures 7, 8, and 9).



NOTE  
ON THIS VERTICAL ONLY, TWO STUB CABLES  
ARE STACKED AND TIED TOGETHER  
ONTO THE MPF RIB WITH CABLE TIES.



NOTE:  
IN OTHER VERTICALS STUB CABLES  
ARE NOT STACKED

Figure 7—Dressing and Securing Stub Cable in MPF Verticals—Rear View

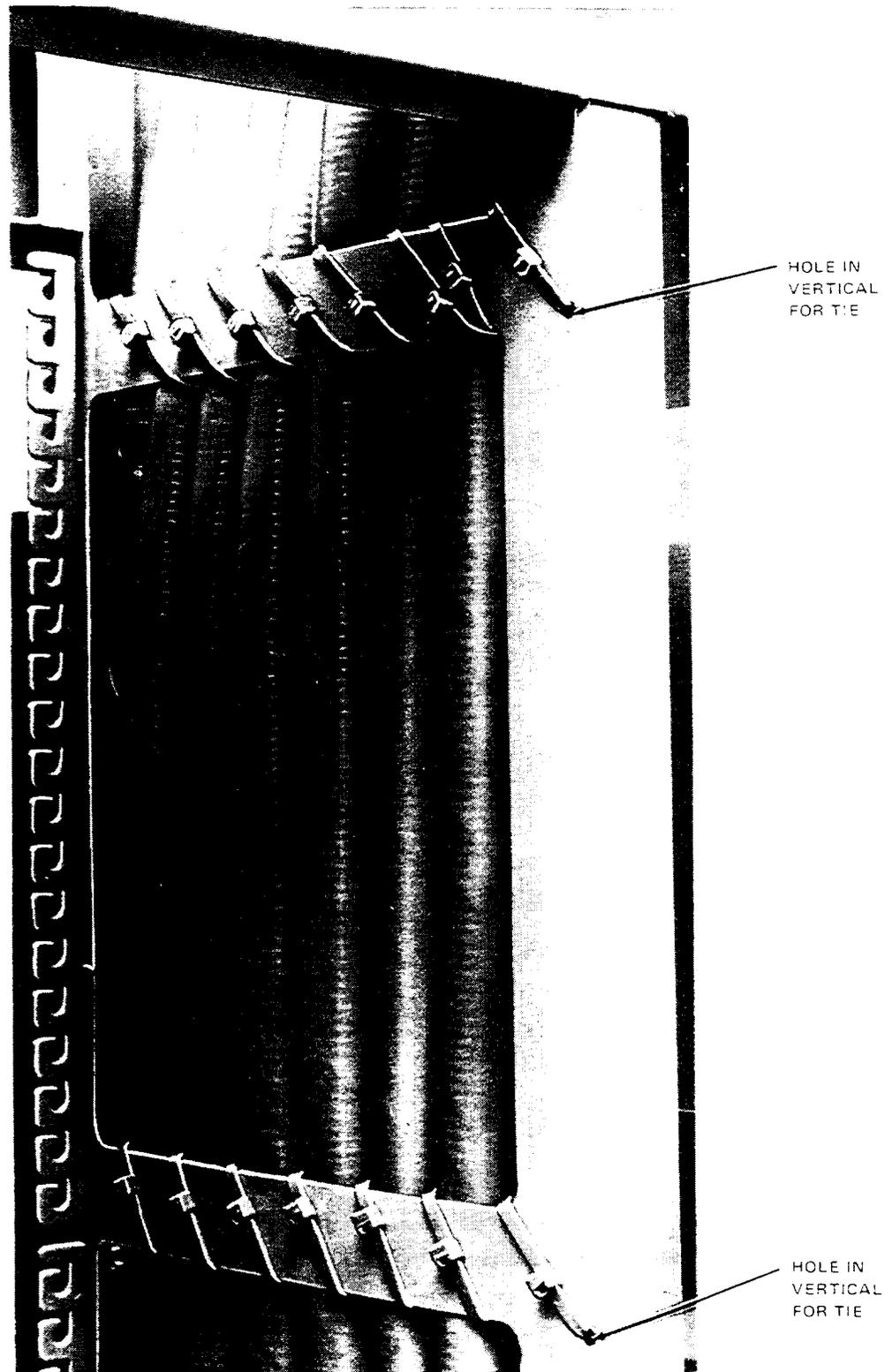


Figure 8—Securing Stub Cables Onto Ribs of MPF

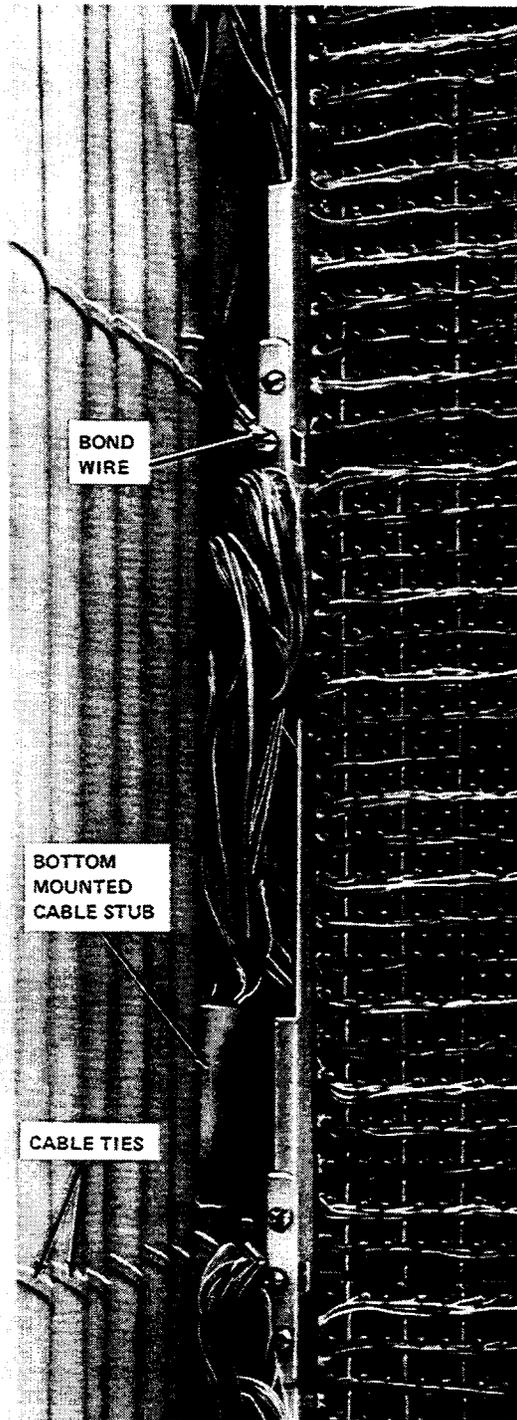


Figure 9—Bottom-Mounted Stub Cables

(6) Connect the bond wire to the MPF framework (Figure 6) that is immediately above the aluminum-covered moisture plug by using the self-tapping screw furnished with the connector. This provides electrical continuity between the shield of the stub cable and the MPF ground.

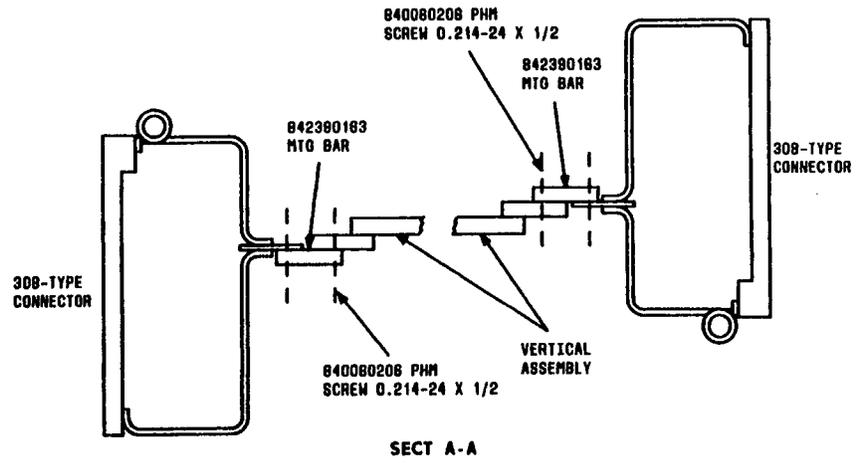
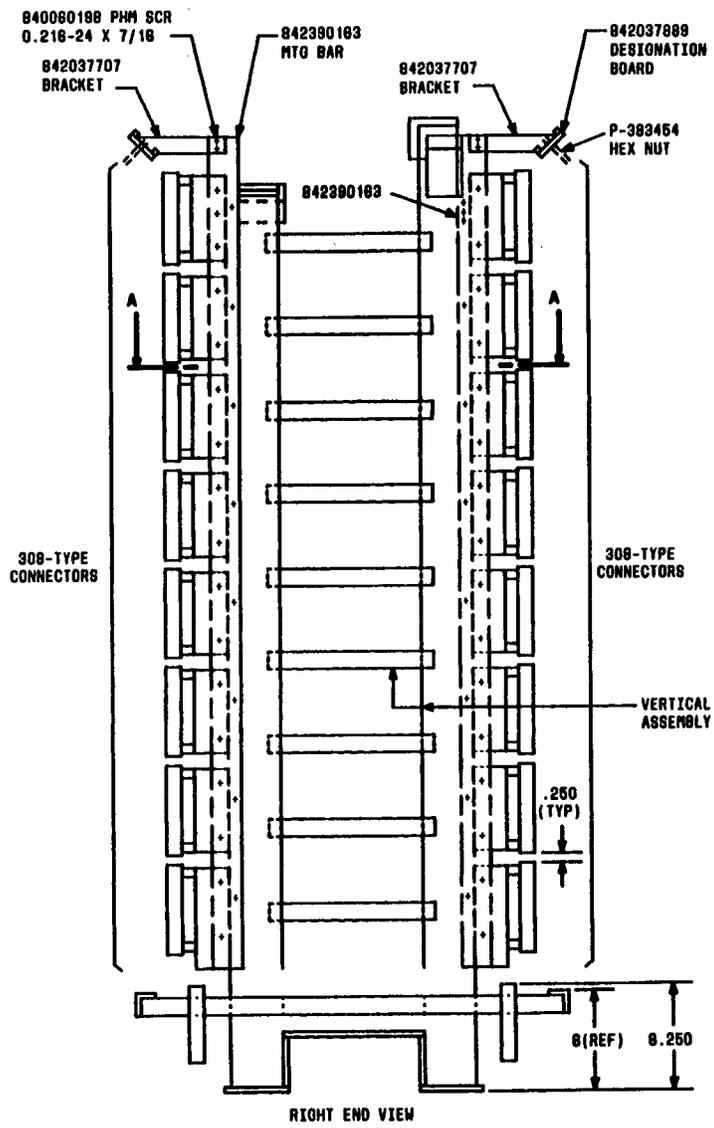
**3.08** In a location *where the stub cables are dressed downward*, install the 308-type connectors as follows:

- (1) Remove and retain the screws and metal cover plates from the base of the MPF to facilitate stub entrance to the cable entrance facility.
- (2) The connectors are mounted in the same manner as described in paragraph 3.07 (1) through (6), except that the stub cables are routed through the bottom of the frame. Install the connectors to the vertical members, *starting at the bottom and working toward the top*.
- (3) Position and secure the bottom-mounted stub cables on the protector frame as shown in Figure 9.
- (4) Connect the bond wire (Figure 9) as outlined in paragraph 3.07 (6).
- (5) Cut the metal cover plates to fit around the stub cables and provide fire protection in accordance with local instructions. Secure the metal cover plates to the MPF, using the screws removed in (1).

**INSTALLING 308-TYPE CONNECTORS ON LPDPF (LOW PROFILE DOUBLE-SIDED PROTECTOR FRAME)**

**3.09** Vintage LPDPFs require an adapter mounting bar (Part No. 842390163, Figure 10), having the corresponding mounting holes for the 308 (type 2) connector. Attach one to each frame vertical (Figure 11). On the later LPDPFs, the connector mounting holes are incorporated on each frame vertical, eliminating the need for the adapter mounting bar.

**Note:** The 308 (type 2) connector can be used for existing tall DPF (double-sided protector frames) when sufficient cable access is available and the adapter bar is compatible with the verticals.



NOTE: ALL DIMENSIONS ARE IN INCHES.

Figure 10—ED-97755-70 LPDPF—Modified by H-400-087

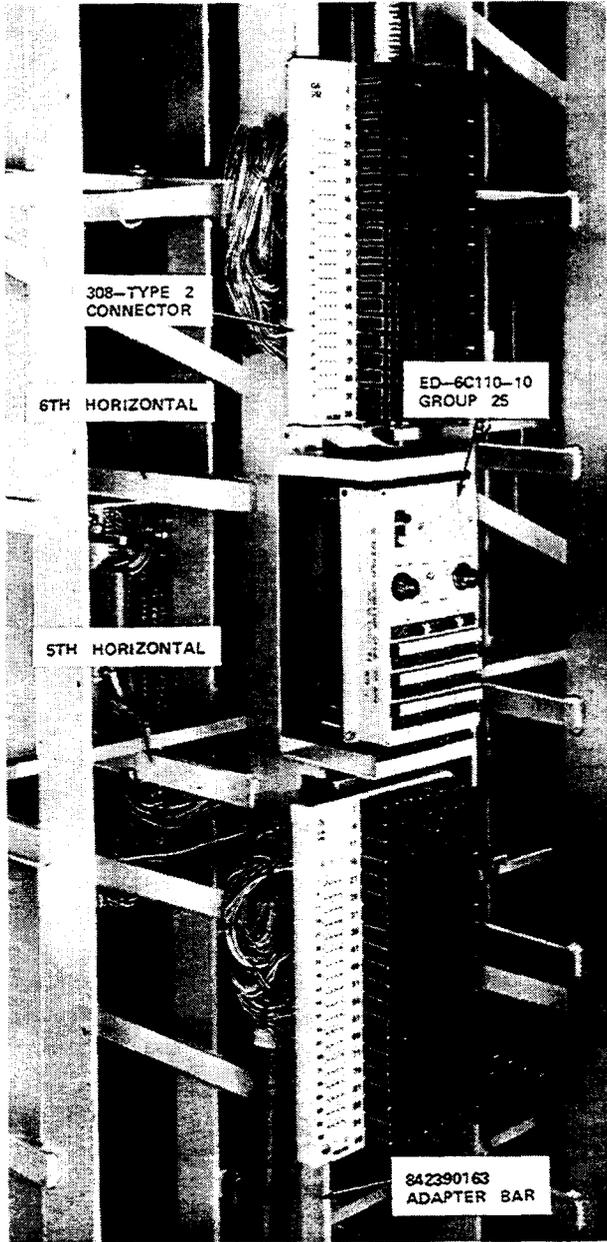


Figure 11—308 (Type 2) Connectors Mounted on Modified LPDPF (ED-97755-70)

3.10 Provisions have been made on the LPDPF to mount the Miniature Test/Talk System. Each frame vertical of the ED-97755-71 LPDPF and the 842390163 adapter bar has a series of mounting holes to attach Groups 25 and 26 of the ED-6C110-10 Test/Talk System whenever applicable. Figure 11 shows the Group 25 Test/Talk unit as mounted between the fifth and sixth horizontal members of the LPDPF. When required, Group 26 is located between the fourth and fifth horizontals. Drawing ED-6C111-10 shows the mounting and location of the Miniature Test/Talk System on the LPDPF with 308 (type 2) connectors. See AT&T 201-216-101 and 201-216-801 for additional information.

*Note:* Mounting the Group 25 Test/Talk unit will reduce the number of 308 (type 2) connectors which can be mounted on the vertical (one less conductor). Use of the Group 26 would require an additional connector position.

**MARKING THE 308-TYPE CONNECTOR**

3.11 When the 308-type connectors are used on modular protector frames in conjunction with the COSMIC® Frame System, MELD or its predecessor PACE will generate adhesive-backed labels. These labels identify the cable and low-high pairs terminated on the connectors, and the COSMIC frame location (module, shelf, and block) where the tie cable from the connector is terminated.

3.12 When the MELD/PACE label is used, place it on the upper left corner on the face of the 308-type connector (Figure 12).

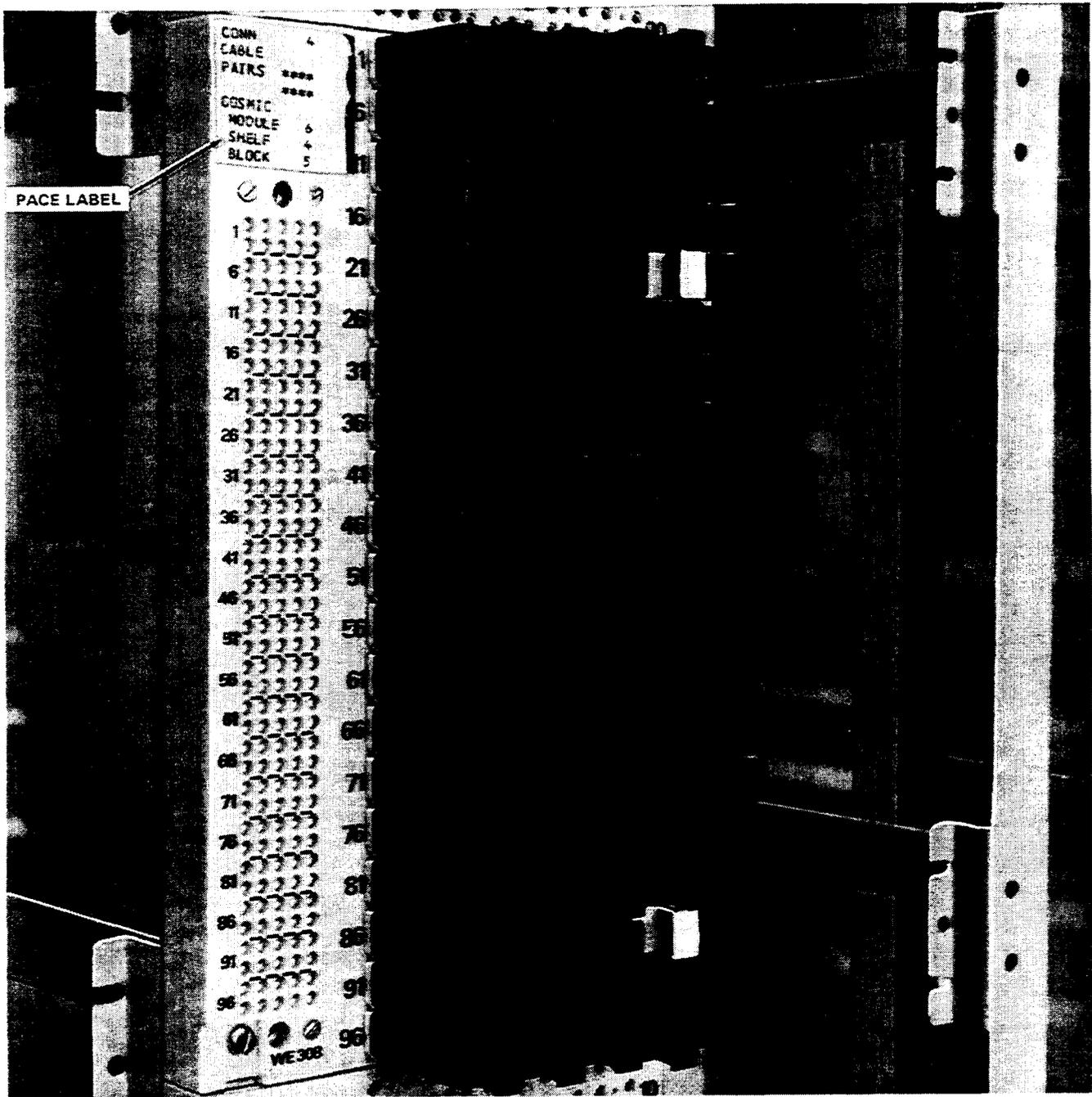
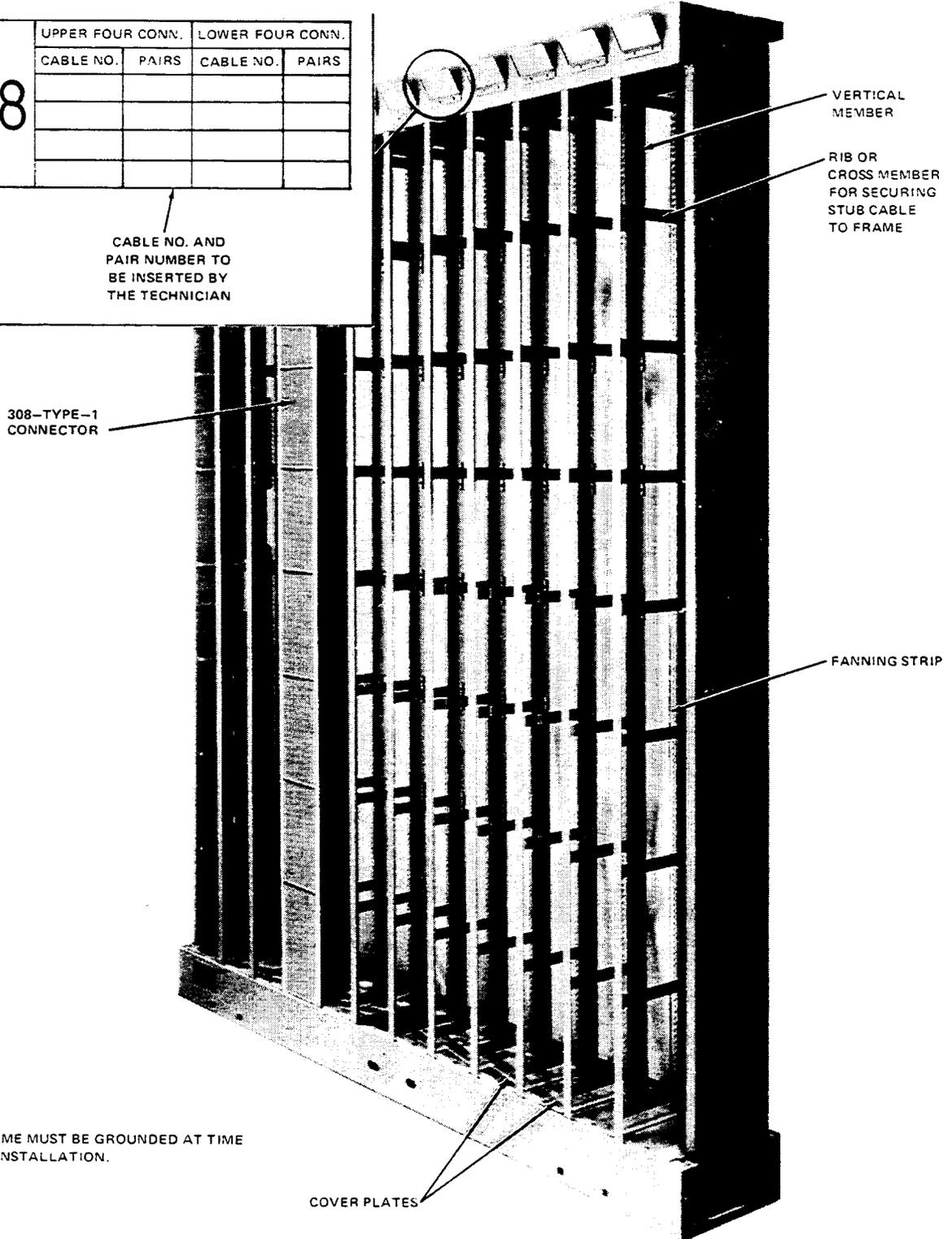
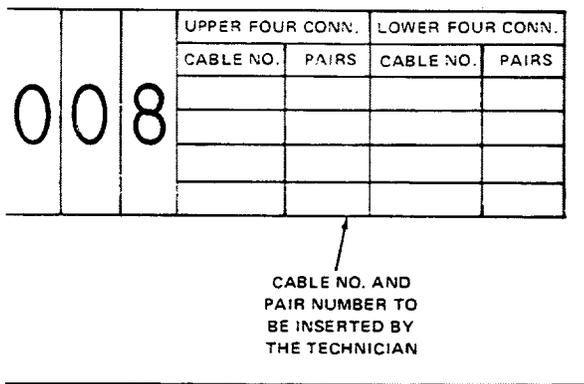


Figure 12—Typical MELD/PACE Label for COSMIC DF Applications

3.13 When the 308 connectors are used with frame systems other than *COSMIC*, the related cable and pair designations are hand-stenciled directly on the connector panel in that area for the MELD/PACE label.

3.14 Each modular type protector frame (Figure 13) is equipped with protector frame designation cards for identifying cable number and pair count. The craftperson will insert the cable number and pair count on the designation card located at the top of the frame adjacent to the vertical number.



NOTE:  
FRAME MUST BE GROUNDED AT TIME OF INSTALLATION.

Figure 13—MDF (High Density) for 308 (Type 1) Connectors—Rear View

**3.15** Designation pins for use with special circuits are coded as listed in Table D.

- (a) Using fingers or long-nose pliers, insert the designation pin in the blind hole provided on the face of the connector.
- (b) The head of the designation pin has been redesigned to provide two flat surfaces for easy removal of the installed pin with long-nose pliers.

TABLE D DESIGNATION PINS		
PART NO.	COLOR	DESIGNATION
KS-14174 L4	Green	Denied Service PBX Battery Special Circuit
KS-14174 L5	Yellow	
KS-14174 L7	Red	

**4. REPAIR PROCEDURES**

**4.01** Before making repairs to the apparatus referred to in this part, craft personnel should be familiar with the contents of the following practices.

- 069-132-811—Punched or Wire-Type Terminals (Not Having Notches or Perforations)—Method of Making and Removing Wrapped Connections
- 069-140-811—Soldered Connections—Using Soldering Coppers — Method of Making and Removing.

**PRECAUTIONS**

**4.02** This part covers only those parts which can be replaced in the field. No attempt should be made to replace parts not designated. All terminals are replaceable. The threaded inserts on 308-type connectors are also replaceable.

**4.03** Exercise extreme care when removing and connecting wires and replacing terminals to prevent damage to adjacent connections and to avoid shorts, grounds, and crosses to operating circuits.

**4.04** The ends of wire previously used for a solderless wrapped connection or soldered connection shall not be reused for subsequent connections. The end of the wire must be cut off and reconnected by solderless wrapping or soldering. It will be necessary to splice the wire if there is not enough slack to provide the number of turns required for solderless wrapped connections. (See AT&T 069-132-811.)

**TOOLS AND MATERIALS**

**4.05** The following are the tools and materials needed to perform the repair procedures:

CODE OR SPEC NO	DESCRIPTION
AT-7860	B long-nose pliers
AT-7825	4-inch E screwdriver
KS-6320	Orange stick
86A	Bracket (two)
AT-7424	Solder
KS-8740	Soldering copper (or other KS-8740 coppers rated at 95 watts)
KS-16363, L3	Wire wrap gun
KS-20551 or KS-20827, L1	Wire unwrapping tool.

**REPLACING DEFECTIVE TERMINALS**

**4.06** Figure 14 and 15 illustrate the 308-type connectors and the relationship of piece parts.

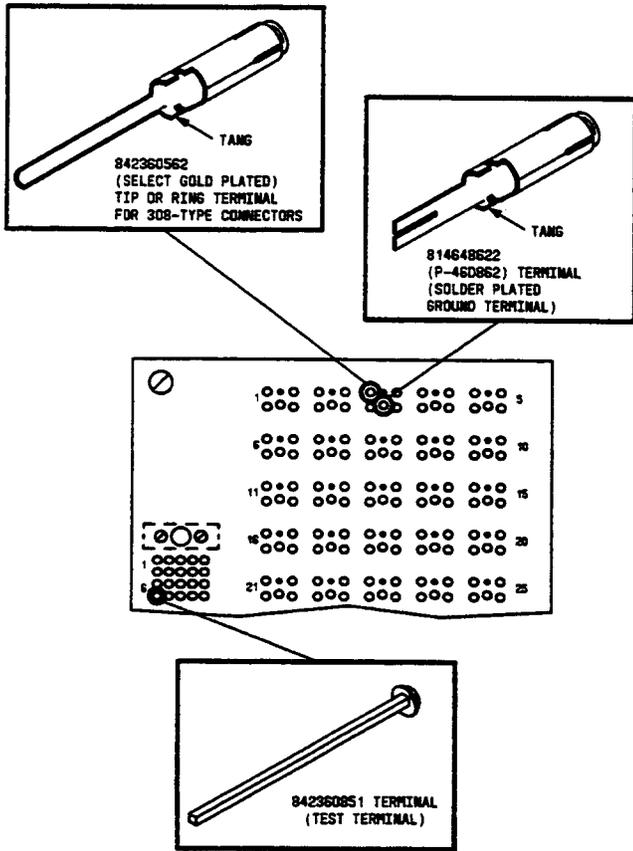


Figure 14—308-Type 1 Connector—Replacement Terminals

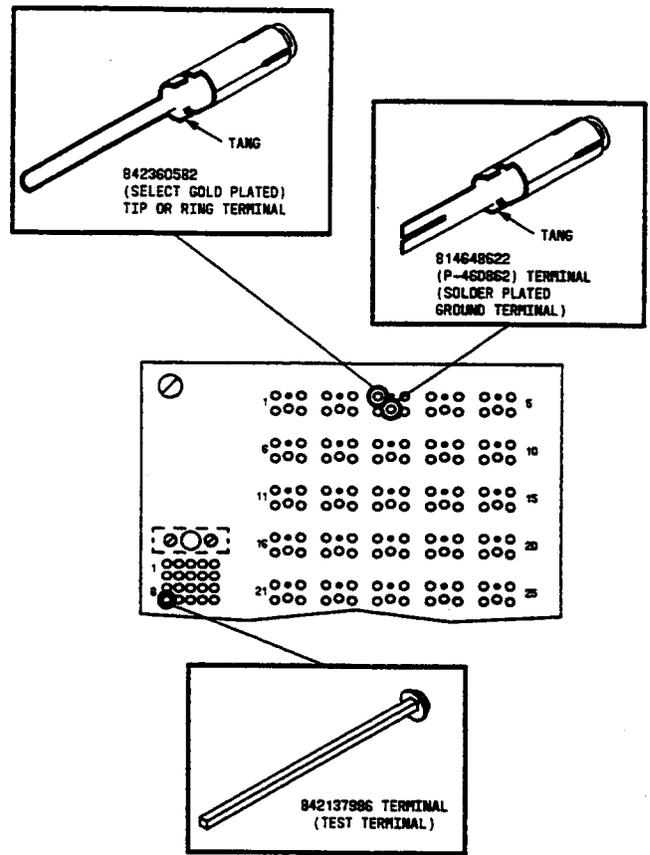


Figure 15—308-Type 2 Connector—Replacement Terminals

**REMOVING TERMINALS****A. Tip and Ring Terminals**

- 4.07** On the wiring side of the connector, tag and remove the leads from the broken or damaged terminal.
- 4.08** Using B long-nose pliers, close the tangs on the terminal or break the terminal flush with the back side of the connector panel and remove the terminal from the front side of the connector panel.

**B. Ground Terminals**

- 4.09** On wiring side of the connector, use a soldering copper and remove all solder from the terminal to be replaced.
- 4.10** Using B long-nose pliers, close the tangs on the damaged or broken terminal or break the terminal flush with the back side of the connector panel and remove the terminal from the front side of the connector panel.

**C. Test Terminals**

- 4.11** From the wiring side of the connector, tag and remove the leads from the terminal to be replaced.
- 4.12** Using a new terminal or a sharp instrument, such as a test probe, push the broken terminal through to the front of the connector about 1/8 inch.
- 4.13** From the test contact or front side of the connector, grasp the terminal head with the B long-nose pliers and pull the terminal from the block.

**INSTALLING TERMINALS****A. Tip and Ring Terminals**

- 4.14** Using the fingers, properly orient the new terminal and insert into the same hole from which the old terminal was removed. Push the terminal into the hole as far as possible.
- 4.15** Insert a protector unit into the connector to hold the terminal in place.
- 4.16** On the wiring side of the connector, use the B long-nose pliers and pull the terminal into its

proper position. Pay attention to the orientation of the terminal. Determine that the terminal is in the correct position by observing the position of adjacent terminals.

- 4.17** Using B long-nose pliers, carefully spread the tangs of the terminal to lock the terminal in place in the connector panel.
- 4.18** Reconnect all leads to the terminal.
- 4.19** Remove the protector unit.

**B. Ground Terminals**

- 4.20** Using the fingers, properly orient the new terminal and insert into the same hole from which the old terminal was removed. Push the terminal into the hole as far as possible.
- 4.21** Insert a protector unit into the connector to hold the terminal in place.
- 4.22** On the wiring side of the connector, use the B long-nose pliers and pull the terminal into its proper position. Pay attention to the orientation of the terminal. Determine that the terminal is in the correct position by observing the position of adjacent ground terminals.
- 4.23** Using B long-nose pliers, carefully spread the tangs of the terminal to lock the terminal in place in the connector panel.
- 4.24** Remove the protector unit.
- 4.25** Using the soldering copper, solder the terminal to the ground bus.

**C. Test Terminals**

- 4.26** From the front side of the connector, insert the new terminal into the same hole from which the old terminal was removed.
- 4.27** Using the fingers, push the terminal into the hole as far as possible.
- 4.28** Using an orange stick, push the terminal into its seated position on the connector.
- 4.29** From the wiring side of the connector, reconnect all leads.

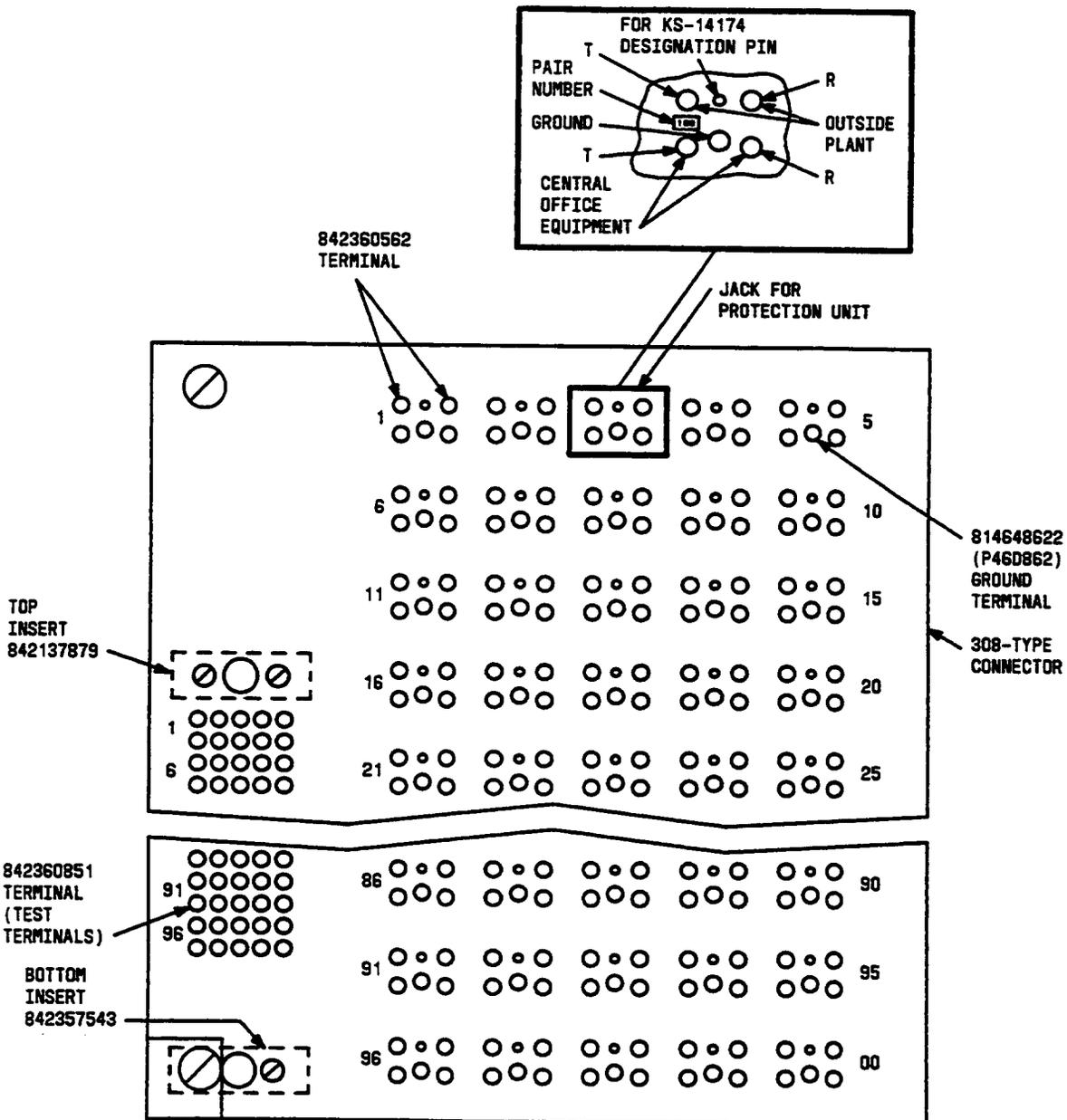
**REPLACING THREADED INSERTS**

**4.30** The 100-pair P and R test connector attaches to the 308-type connector by means of two thumb-screw fasteners that engage threaded inserts at the top and bottom of the test contact field (Figure 16). The

threaded inserts have different comcode numbers because of their different lengths. Comcode numbers for the two inserts are:

*Top Insert — 842137879*

*Bottom Insert — 842357543.*



**Figure 16—308-Type 1 Connector Panel—Test Connector Threaded Inserts**

**4.31** To remove and replace the threaded inserts from the 308-type 1 connector panel, the connector must be removed from the protector frame. The 308-type 2 connector can be opened on its hinges. To remove the 308-type 1 connector from the frame, proceed as follows:

- (a) Remove and retain the two mounting screws on the rear of the connector.
- (b) Remove and retain the two mounting screws from the front of the connector. Removal of these screws will allow the connector to be removed from the protector frame.

**4.32** To remove the threaded inserts from the connector panel, proceed as follows:

- (a) Observe the mounting of the inserts. At the front side of the connector, remove and retain the flathead screws which secure the insert in position.
- (b) Remove the insert carefully to prevent a short in the test terminal field.
- (c) Install the insert and secure with the flathead screws removed in Step (a).

- (d) Replace the 308-type 1 connector on the protector frame by reversing the steps in paragraph 4.31 or closing the 308-type 2 hinged connector.

## 5. TESTING

### PROTECTOR UNITS

**5.01** The 3-, 4-, or 5-type protector units are used with the 308-type connectors. The protector units are ordered separately from the connectors. The 3-, 4-, and 5-type protector units are described in Practice 201-208-100.

**5.02** All standard plug-in protector units are equipped with four gold-plated tip and ring pins and a solder-plated ground pin.

**5.03** Protector units with gold-plated pins should be used with connectors containing gold-plated socket terminals (i.e., all current protector unit and connector codes). Protector units with gold-plated or solder-plated pins can be used in vintage connectors containing solder-plated socket terminals.

**Caution:** *Protector units with solder-plated pins should not be used on connectors with gold-plated socket terminals. This combination of plating and contact surfaces results in higher contact resistance, and surface degradation of gold-plated socket terminals.*

5.04 Before installing the 3-, 4-, or 5-type protector units onto the connectors, each unit may be tested. The KS-20100, L5 test set (Figure 17) is used to test for the presence or absence of tip and ring continuity and ground and also provides a burnout feature to clear protector units shorted by carbon or dust particles. The 182A test set (Figure 18) is used to test the minibridge lifter protector units for tip and ring continuity and for shorted protector blocks. It also tests the function of the 410A switch contained in the protector unit. For the test procedures, see AT&T 201-208-100.

**Note:** The jacks (receptacles) for the protector units in the 303-, 305-, 307-, 309-, 310-, 310M-, and 311 connectors have reversed tip and ring orientation from the 302- and 308-type connectors (see Figures 19 and 20).

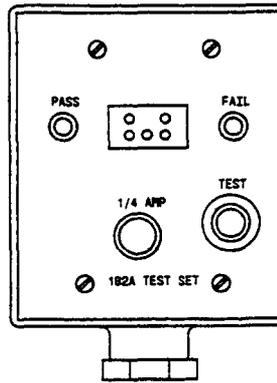


Figure 18—182A Test Set

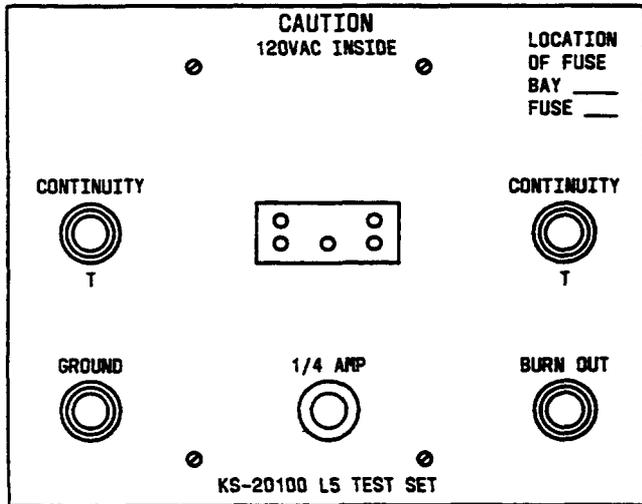


Figure 17—KS-20100, L5 Test Set

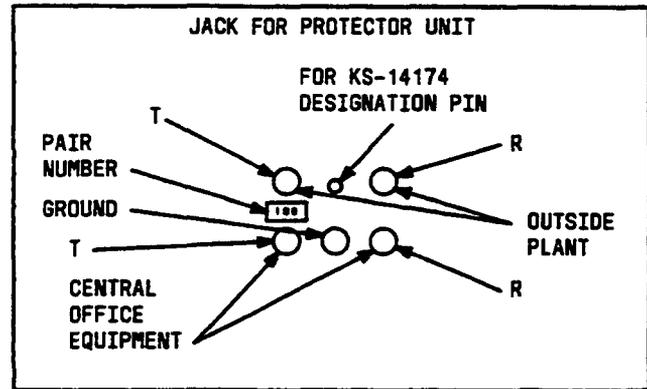


Figure 19—Jack For Protector Unit on 302- and 308-Type Connectors

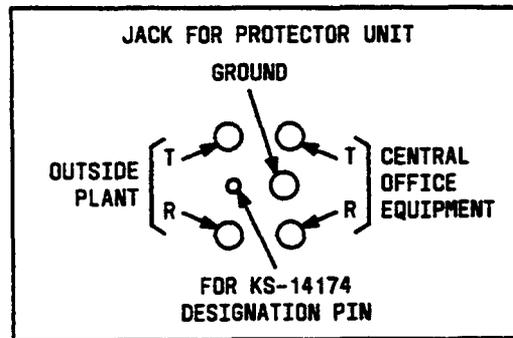


Figure 20—Jack For Protector Unit on 303-, 305-, 307-, 309-, 310-, 310M-, and 311-Type Connectors

## TEST CONNECTORS, CORDS, PLUGS, WARNING MARKERS, AND GUARDS

5.05 The P (multiple pair) and R (single pair) test connectors are used with the 308-type connector. Cords and plugs are also used for testing purposes. The warning markers and guards are used on special service circuits to provide additional visibility and protection. See AT&T 201-208-106 for description and use of these items.

5.06 The P test connector (Figure 21) is a 100-pair test connector that is used for making multiple pair cable tests on the 308-type connectors.

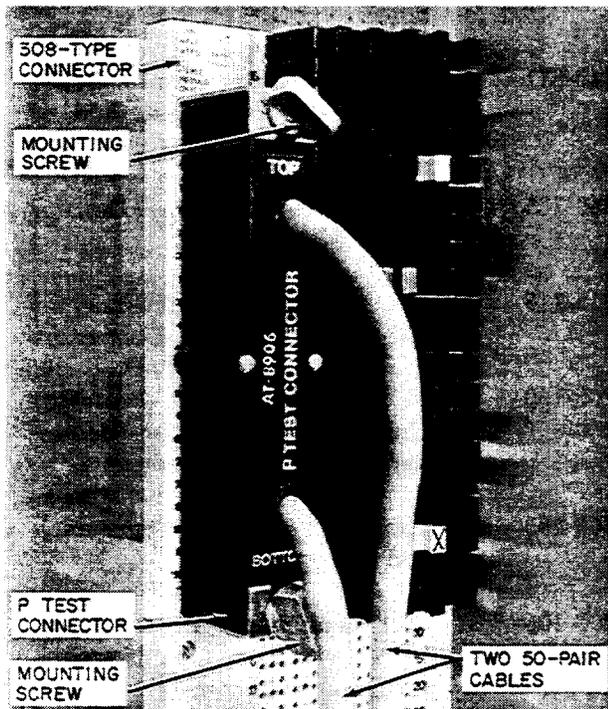


Figure 21—P Test Connector (AT-8906) Mounted on a 308-Type Connector

5.07 The R test connector (Figure 22) is a 100-pair test connector that is used for checking one cable pair at a time on the 308-type connectors.

**Warning:** *The 308 (types 1 and 2) connector test contacts are gold-plated. Any abuse, such as locating tone with a probe, shorting, or grounding pairs with long-nose pliers, etc., will damage the test contacts. Before any test is made, install the P or R test connector on the test contacts.*

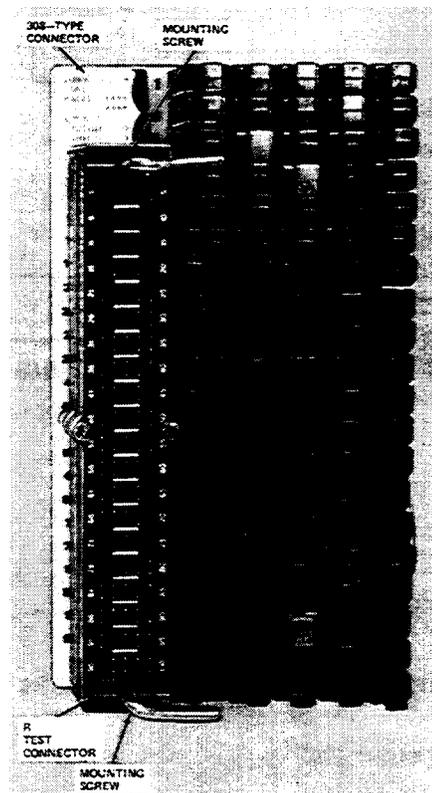


Figure 22—R Test Connector (AT-8916) Mounted on a 308-Type Connector

5.08 The P2EF test cord (Figure 23) is used to short the tip and ring or to ground the tip and/or ring of an individual cable pair by inserting the plug end into a pair of recessed test terminals on the 308-type connector.

**Caution:** *The P2EF test cord is designed to support only its own weight. Do not use it as an adapter cord for access to the test terminal field*

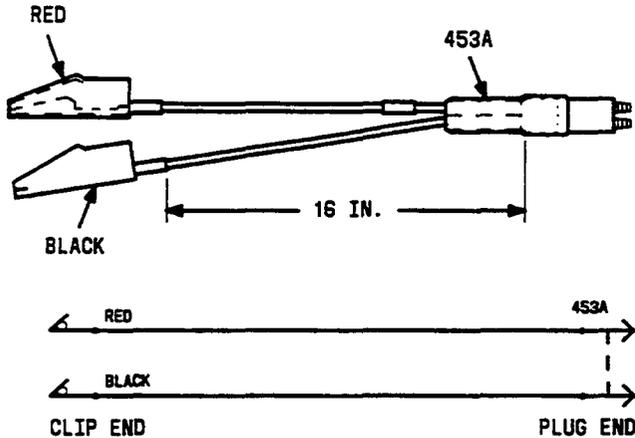


Figure 23—P2EF Test Cord

6. ASSOCIATED EQUIPMENT AND REFERENCES

ASSOCIATED EQUIPMENT

3-, 4-, and 5-Type Protector Units

H-400-087 Adapter Mounting Bars — For mounting 308A3 or B3 connectors on ED-97755-70 LPDPFs.

Test Equipment (AT&T 201-208-106)

- P Test Connector (AT-8906) (Comcode 402222715)
- R Test Connector (AT-8916) (Comcode 402352579)
- P2EF Test Cord (Comcode 102808581)
- W2FH Test Cord (Comcode 101616399)
- W2FM Test Cord (Comcode 101616449)
- W2GC Test Cord (Comcode 102959088)
- W2GD Test Cord (Comcode 101636959)

- W4BR Test Cord (Comcode 102530821)
- W4CL Test Cord (Comcode 101981611)

Warning Markers and Guard (AT&T 201-208-106)

- E Warning Marker (Comcode 400614202)
- E Sign (Comcode 400359196)
- KS-19478 Guard (Comcode 997161617)

REFERENCES

PRACTICE	TITLE
069-132-811	Punched or Wire-Type Terminations (Not Having Notches or Perforations)—Method of Making and Removing Wrapped Connections
069-140-811	Soldered Connections—Using Soldering Coppers—Method of Making and Removing
081-860-105	Transfer Stenciling Kits—Description and Use
106-315-119	Multiple Pair Test Connectors for 302- and 303-Type Connectors
201-208-100	3-, 4-, and 5-Type Protector Units—Description, Use, Maintenance, and Test Procedures
201-208-103	Tools and Aids — Distributing and Protector Frames
201-208-106	Test Equipment, Cords, Plugs, Warning Markers, Guards, Insulators, and Indicators—Description and Use
201-216-101	Miniature Test/Talk System — Description — Distributing and Protector Frames
201-216-102	Cords and Plugs — Description — Miniature Test/Talk System
201-216-801	Miniature Test/Talk System — Piece Parts and Replacement Procedures — Distributing and Protector Frames
201-219-101	Protector Frames — Description

<b>PRACTICE</b>	<b>TITLE</b>	<b>PRACTICE</b>	<b>TITLE</b>
201-219-501	Protector Frames — Inspections	916-559-770	Cable Terminating Facilities — Central Office Type — General
201-220-101	Conventional Distributing Frames — Description	<b>7. ISSUING ORGANIZATION</b>	
201-220-501	Conventional Distributing Frames — Inspections	Published by The AT&T Documentation Management Organization	