END PLATE GROMMETS
FOR CARRIER APPLICATION

CONTENTS PAGE

1. GENERAL

1.01 This section covers the description and installation of grommets AT-8875 used to provide multiple openings in splice cases for T1, T1C, or T1D apparatus case stub cables.

1.02 This section is reissued to revise Table A to include additional grommets and relate stub cable diameter, number of pairs and wire gauge, apparatus case number and splice case or closure used with each grommet. Revision arrows are used to emphasize these changes.

1.03 Assure stub cable layout is understood and that ***IN*** and ***OUT*** cables from each apparatus case do not block each other. With all cables in place, it should be possible to move an apparatus case from its support for maintenance without rearranging any of the cabling other than those from the apparatus case involved. Stub cable arrangements are covered in Section 640-527-230.

1.04 The illustrations herein show PASP sheath stub cables; however, the stubs may be either LEPETH or PASP. The preparation method is the same for both.

1.05 Installation procedures of 2-type closures and end plates are covered in Section 633-506-201.

Printed in U.S.A.

2. DESCRIPTION

2.01 The grommets AT-8875 listed in Table A and illustrated in Fig. 1 are made of a resilient tough urethane or other rubber-like material. They are furnished with appropriate holes as listed in Table A to accommodate stub cables of various apparatus cases. Each hole has a slit to permit entrance of stub cable from the side.

TABLE A

GROMMETS AT-8875

GROMMET	NO. OF CABLE OPENINGS	APPARATUS CASE	CABLE STUB OD (INCHES)	CABLE STUB PAIR, GAUGE, SHEATH	SPLICE CASE TYPES	GROMMET OD (IN.)
D	None	NA	NA	NA		
E	One	479A1 479A2 479B1 479B2 818C1C 819C1C	1.00	54 pr 22 ga PASP 54 pr 22 ga Lepeth	2D2-1E 2D2-2E 2D2-3E 2C2-1E 40/41D	4 in.
F	Two					
G	Three					
H	Four					
J	Five					
K	Six					
L	Seven					
M	One	475F2* 475G2* 475G2F*	1.15	106 pr 22 ga PASP 106 pr 22 ga Lepeth		
N	Two					
P	Three					
R	Four					
S	Five					
W	One	818A1 819A1 819B1 818A1C 819A1C 819B1C 818A2C 819A2C	1.25	108 pr 25 ga MAT, PASP		
X	Two					
Y	Three					
Z	Four					
T	One	466A, B 468A, B 475A1 475B1 475F 475G	1.40	104 pr 22 ga Lepeth		
U	Two					
V	Three					

♦TABLE A (Contd)♦

GROMMETS AT-8875

GROMMET	NO. OF CABLE OPENINGS	APPARATUS CASE	CABLE STUB OD (INCHES)	CABLE STUB PAIR, GAUGE, SHEATH	SPLICE CASE TYPES	GROMMET OD (IN.)
AA	None	NA	NA	NA	2C2-2E 2C2-3E 50/51D 30/31D 20/21D	3.4 in. Grommet OD
AB	One	479A1 479A2 479B1 479B2 818C1C 818C1C	1.00	54 pr 22 ga PASP 54 pr 22 ga Lepeth		
AC	Two					
AD	Three					
AE	Four					
AF	One	475F2* 475G2* 475G2F*	1.15	106 pr 22 ga PASP 106 pr 22 ga Lepeth		
AG	Two					
AH	Three					
AJ	One	818A1 819A1 819B1 818A1C 819A1C 819B1C 818A2C 819A2C	1.25	108 pr 25 ga MAT, PASP		
AK	Two					
AL	Three					
AM	One	466A, B 468A, B 475A1, B1 475F, G	1.40	104 pr 22 ga Lepeth		
AN	Two					

* A limited number of 475F2, 475G2, and 475G2F apparatus cases were manufactured with 1.25 inch OD stub cables. If encountered, the appropriate grommet with an opening for 1.25 inch OD stub cable should be used.

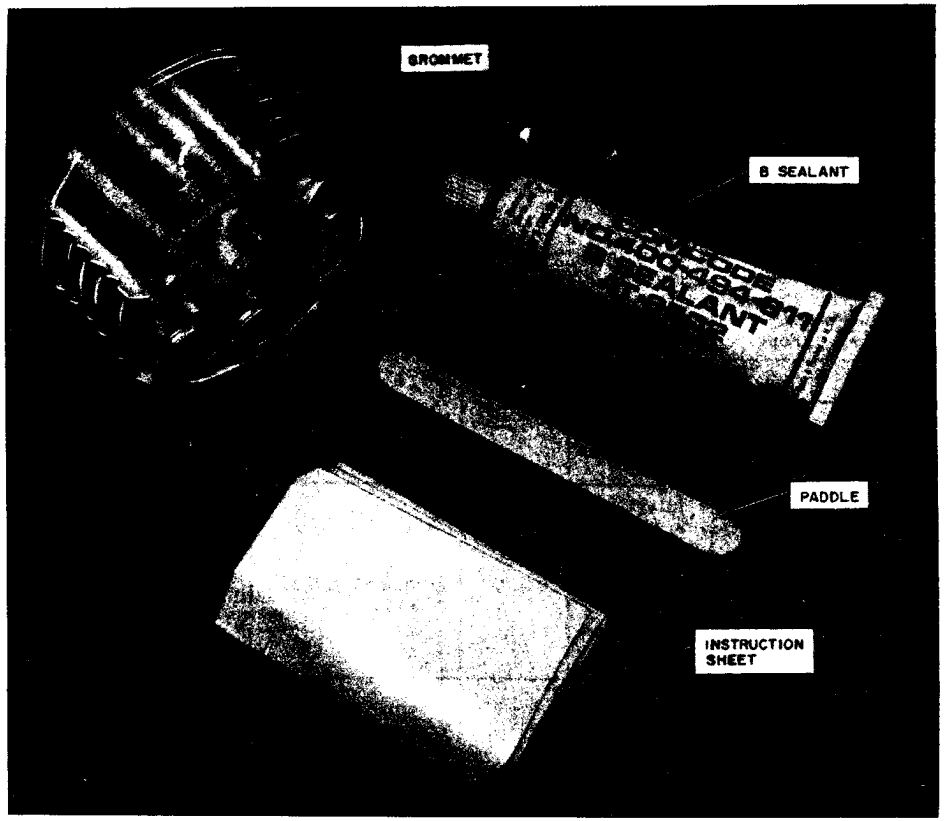
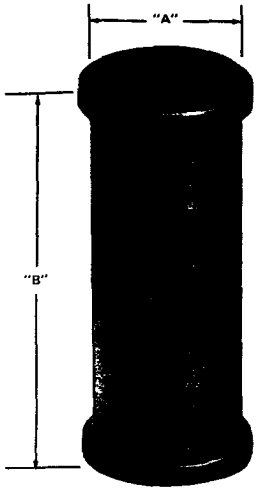


Fig. 1—Grommet AT-8875

2.02 A plug (Fig. 2) is available to seal unused cable opening in multiple hole grommets. This plug must be ordered separately, as required.



NOMINAL DIMENSIONS		O. D. CABLE OPENING (IN.)	HYSOL ORDER NUMBER (NOTE)
"A" (IN.)	"B" (IN.)		
1.00	3.3	1.00	CR40–0–100
1.15	3.3	1.15	CR40–0–115
1.25	3.3	1.25	CR40–0–125
1.40	3.3	1.40	CR40–0–140

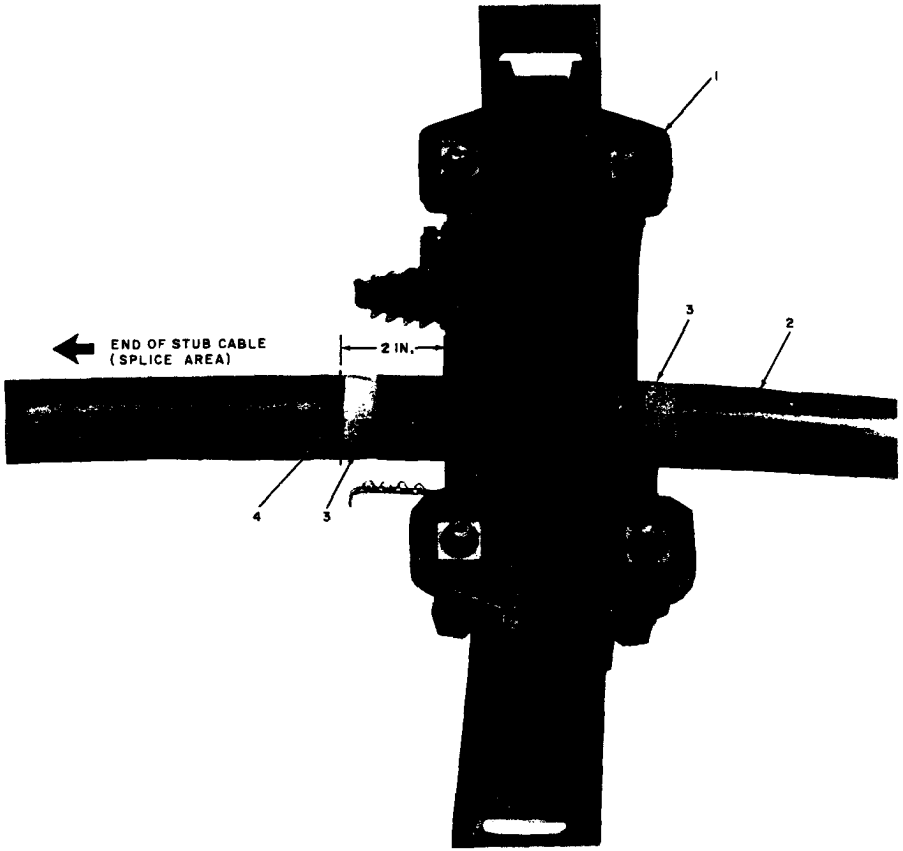
NOTE:
MAY BE ORDERED DIRECT OR THROUGH LOCAL SERVICE CENTER FROM HYSOL DIVISION, DEXTER CORPORATION, 211 FRANKLIN ST., OLEAN, N.Y. 14760.

Fig. 2—Plug

3. INSTALLATION

3.01 Arrange stub cables for proper placement in grommet, and dress each stub into position for a straight entry into its proper hole.

3.02 Procedures for preparation and installation of stub cable(s) in grommet are outlined in Steps 1 through 14.



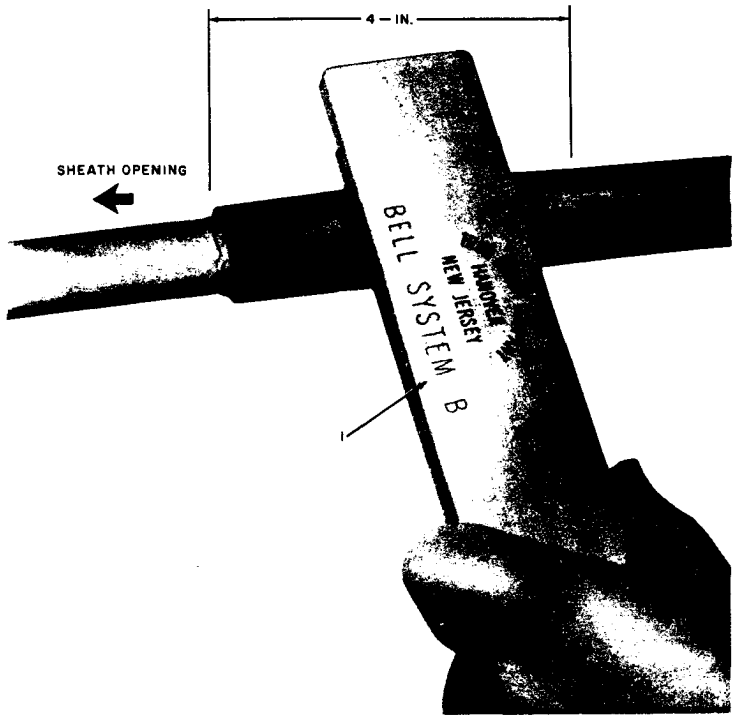
Step 1—Marking Cable Sheath

1. Disassemble the end plates, then position one section of end plate at location for proper cover alignment as outlined in Section 633-506-201.
2. Position stub cables (one shown for clarity) in end plate cavity.

Step 1—Marking Cable Sheath (Contd)

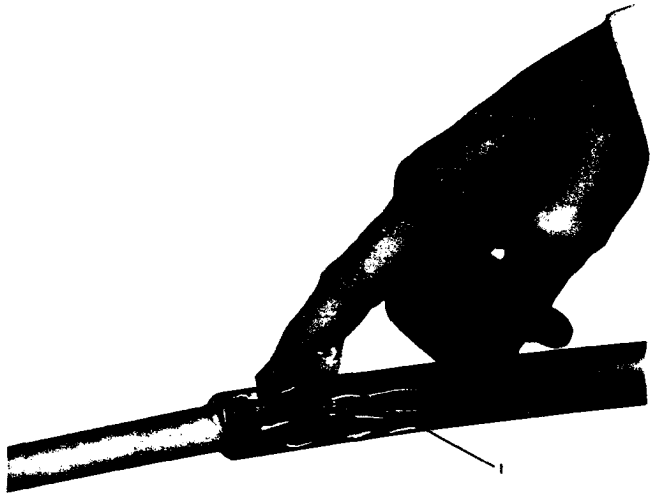
4. Ring cable sheath at edge of inner paper tape marker and remove outer polyethylene jacket and underlying metallic shield from paper tape marker to end of stub cable. Use care to avoid conductor damage.

3. Using B paper tape, mark cable sheath at two locations.



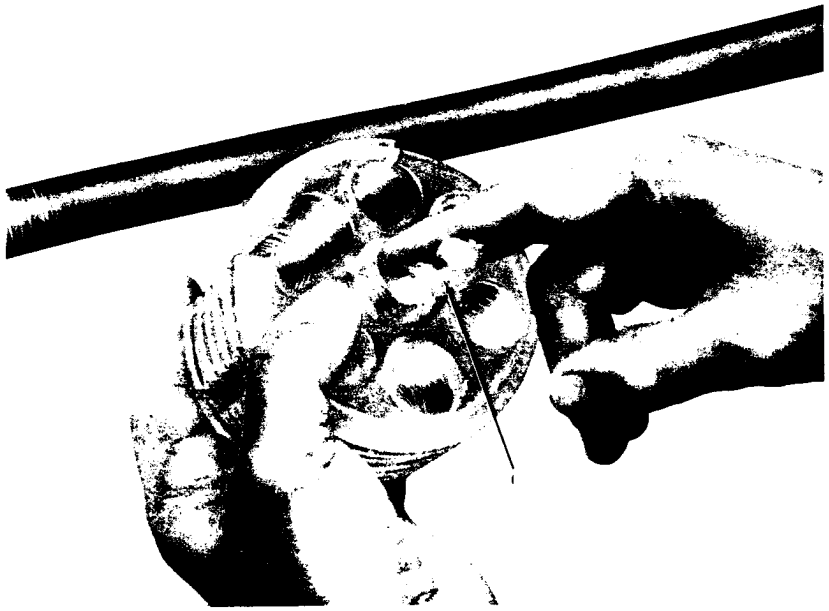
Step 2—Scuffing Cable Sheath

1. Using carding brush, thoroughly scuff outer cable jacket approximately 4 inches back from sheath opening. Scuff jacket at right angles to the length of the cable.



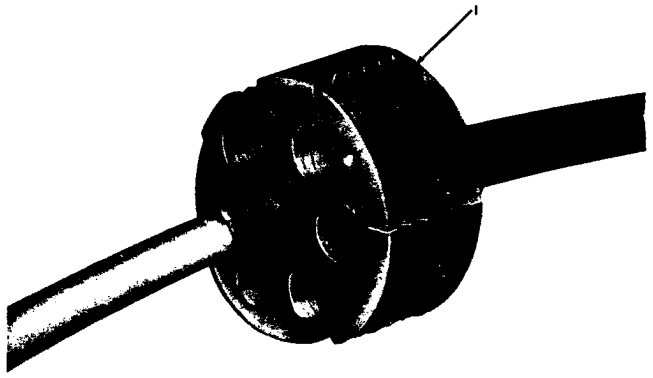
Step 3—Applying Sealant to Cable

1. Squeeze B sealant (furnished with grommet kit) onto finger and apply to scuffed area of cable sheath.



Step 4—Applying Sealant to Grommet

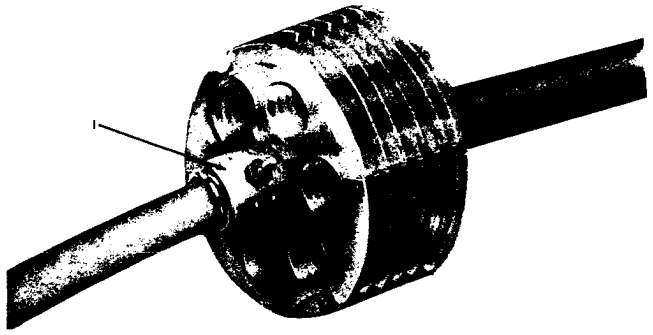
1. Apply B sealant to all cable openings and splits of grommet. ***Assure that sealant gets all the way into the opening.***



Step 5—Stub Cable Placed in Grommet

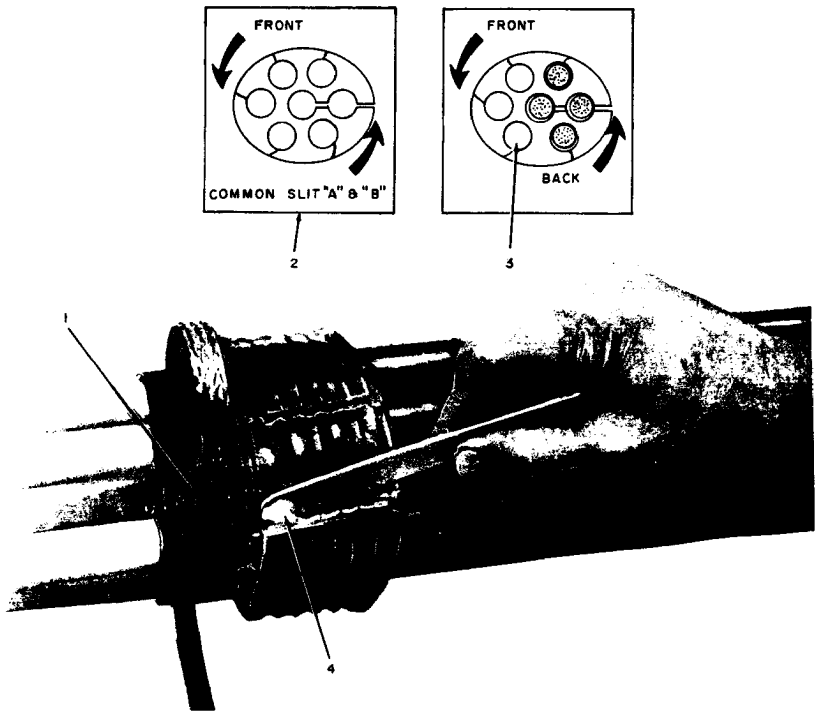
Note: The glossy side of grommet must face outside of closure.

1. Place stub cable in hole of grommet. When seven-hole grommet is used as shown, place control circuit stub in center hole.



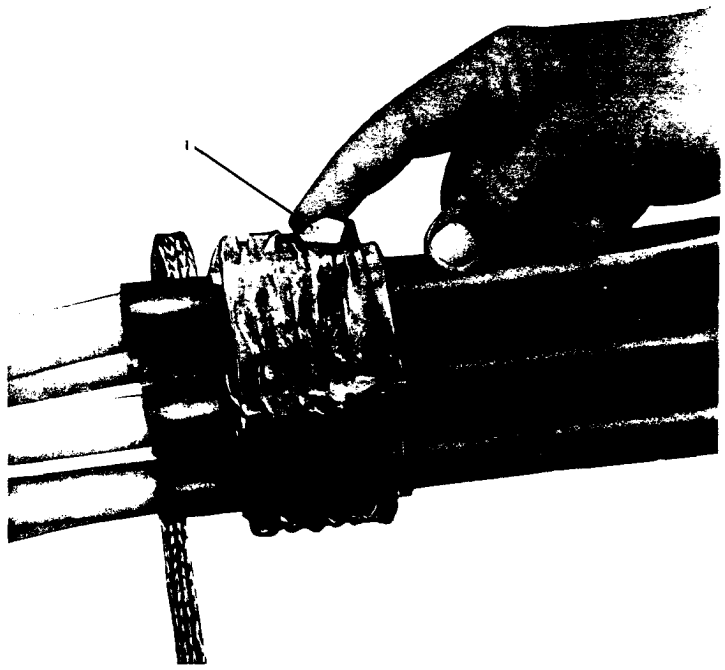
Step 6—Installed Bond Clamp

1. Install B bond clamp on cable sheath as outlined in Section 081-852-118. ***Slit cable sheath so the stud of bond clamp will be in alignment with space between two grommet holes to prevent any interference when placing other stubs.***



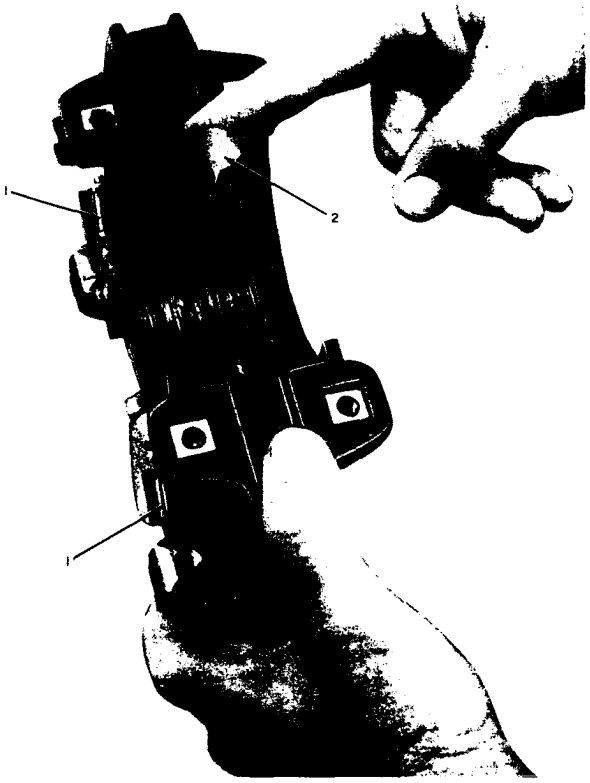
Step 7—Stub Cables Placed in Grommet

1. Remove nut from stud of B bond clamp, then spread bonding braid and place over stud of B bond clamp, secure with nut and washer. Tighten nut with ***216-type tool only.***
2. Starting at back side of grommet, place stub cable as shown.
3. Unused cable openings in grommet must be sealed using grommet plug as follows:
   (a) Obtain a grommet plug (Fig. 2) and apply sealant on plug.
   (b) Insert plug into unused opening, ***plug flange must be on inside of closure.***
4. Apply sealant to all splits in grommet.



Step 8—Applying Sealant to Grommet

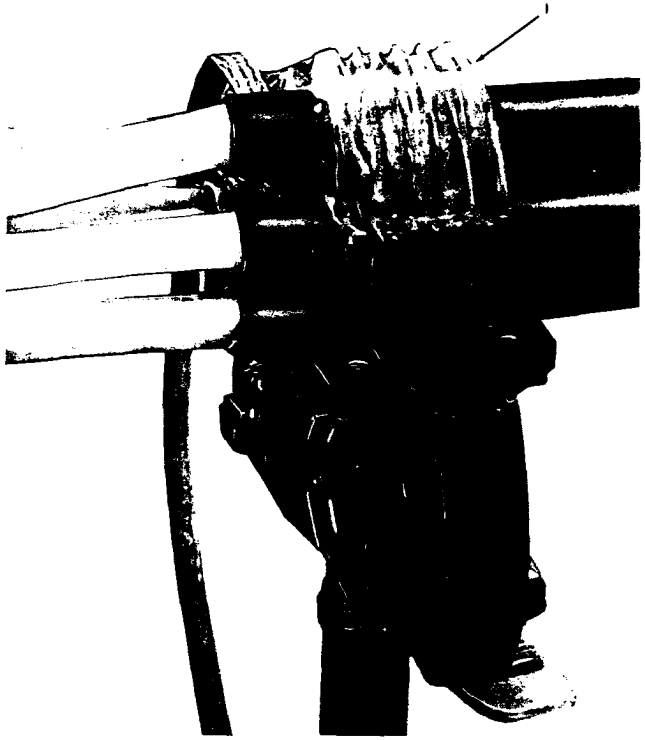
1. Apply sealant to entire outer surface of grommet.



Step 9—Applying Sealant to End Plate Surface

1. Remove toothed clamps from end plate.

2. Apply B sealant to inner surfaces of the closure end plate. ***Do not apply sealant to B sealing tape groove on each side of end plate.***



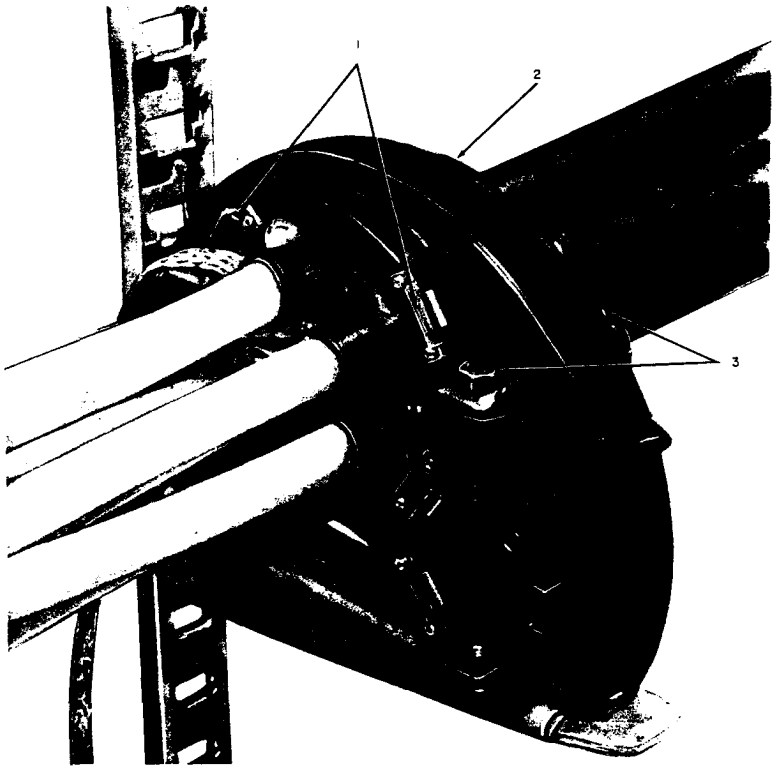
Step 10—Placing Grommet

1. Place grommet in end plate center section, so that grooves in grommet mate or align with grooves in end plate, and that splits or cuts will not be aligned with joints of end plate.

   Note: Arrows on grommets should point to end plate seams.

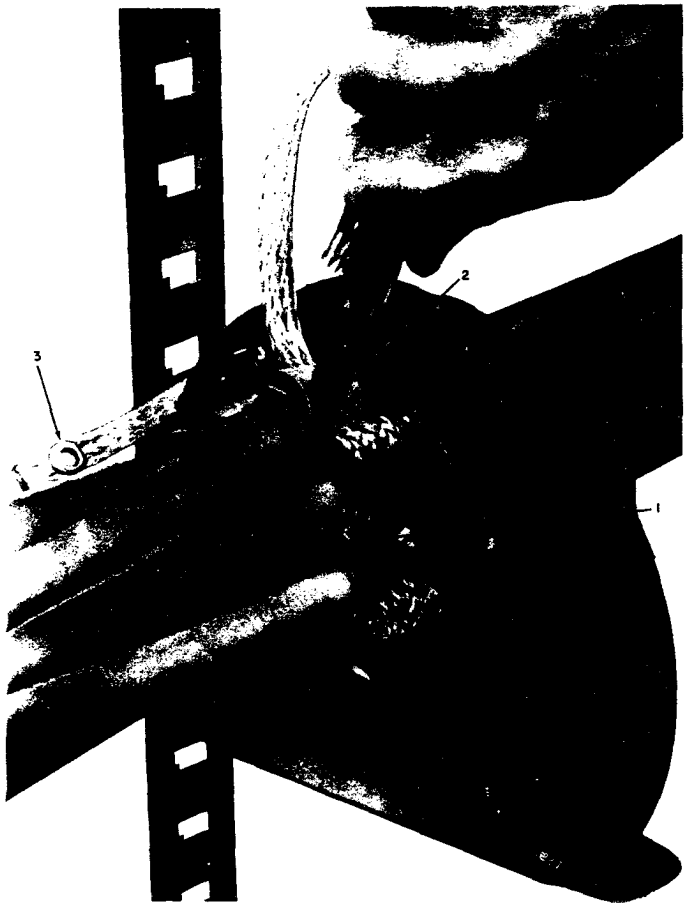
Step 11—Applying B Sealing Tape

1. Assure no B sealant is in groove of end plate, then place a strip of 3/4-inch wide B sealing tape in each groove of end plate section pushing it into contact with surface of grommet before laying it in end plate groove. Assure B sealing tape comes in contact with grommet.



Step 12—Installation of Outer End Plate Section

1. Remove toothed clamps from outer end plate section.
2. Apply B sealant to inner surface of the outer part of the end plate.
3. Place the end plate in position over the grommet so that grooves in grommet mate or align with grooves in end plate. Secure the two halves with the four captive bolts. Using a torque wrench, alternately tighten the bolts so that the two halves tighten evenly to a torque of approximately 200 to 250 inch-pounds.

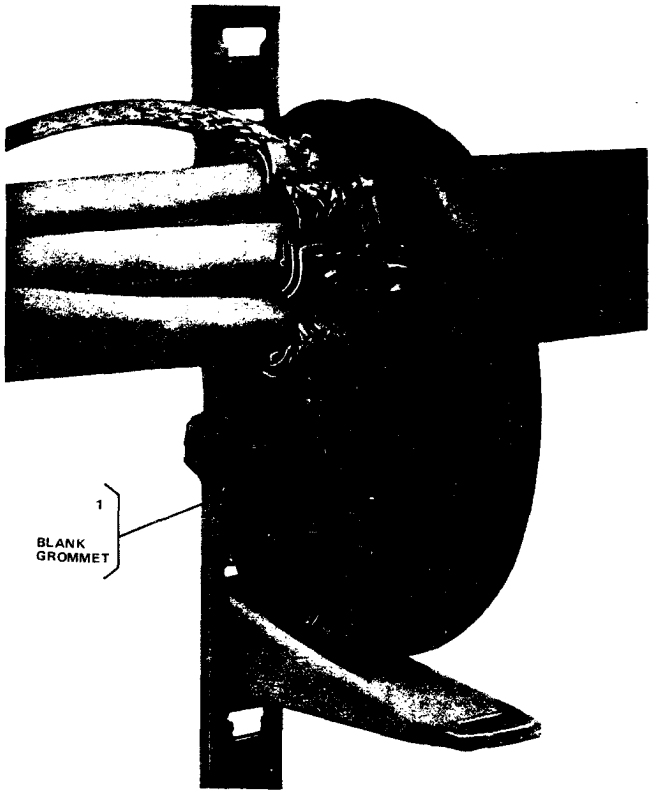


Step 13—Bonding Cable Sheath

1. Install B bond clamp on each stub cable located on the outside of the grommet as outlined in Section 081-852-118. Do not place nuts and washers at this time.

2. Spread bonding braid and place over stud of each B bond clamp. Secure the B2 cover plate (outer plate of B bond clamp). ***Tighten nut with 216-type tool.***

3. Secure other end of bonding braid to bond clamp on feeder cable sheath on opposite end of sheath opening.



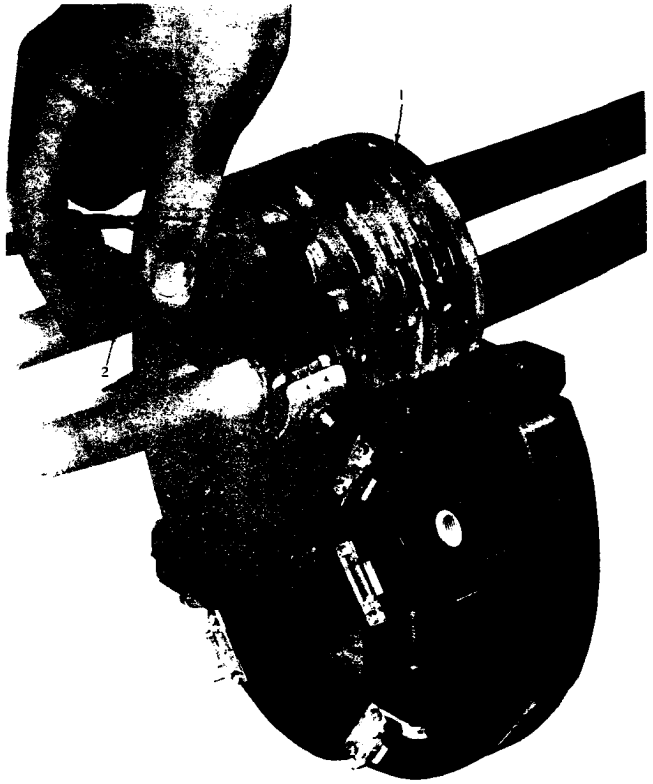
Step 14—Installed End Plate Section

1. Install appropriate grommet and/or stub cables in other openings of end plate as outlined in previous steps.

2. After stub cables have been spliced, install covers of 2-type closure as outlined in Section 633-506-201.

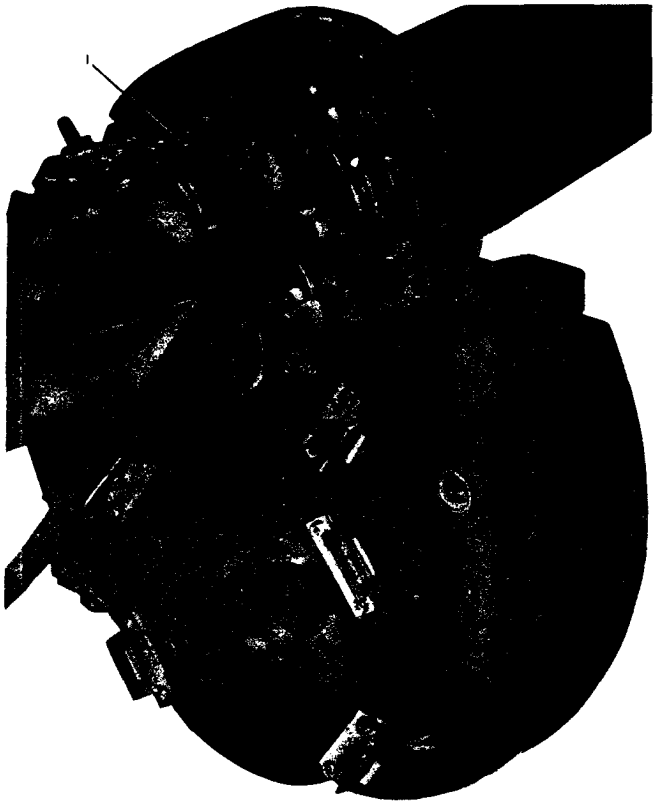
4. PLUG REMOVAL AND STUB ADDITIONS

4.01 Remove plug and install stub cable into unused opening as outlined in Steps 15, 16, and 17



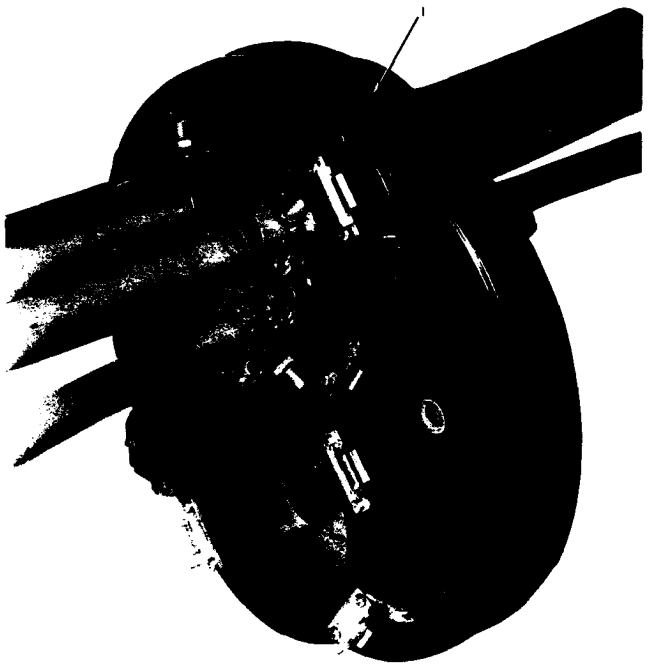
Step 15—Removal of Plug for Addition of Stub Cable

1. Remove end plate section securing grommet.
2. Remove plug from unused opening.



Step 16—Install Stub Cable Into Unused Opening

1. Prepare cable sheath, place into grommet, and install B bond clamp bonding braid as outlined below:
   - Prepare cable sheath per Steps 1 and 2.
   - Apply B sealant per Steps 3, 4, 7, 8, and 9.
   - Install B bond clamp per Steps 6 and 13.
   - Apply B sealing tape per Step 11.



Step 17—Completed Installation

1. Install outer end plate section as outlined in Step 12.