Ranger SERVISEAL® Closure with POLY-BEE™ Sealant MODEL NUMBER 8006137

Be sure to completely read and understand this procedure before applying product.
Be sure to select the proper size PREFORMED™ Product before application.

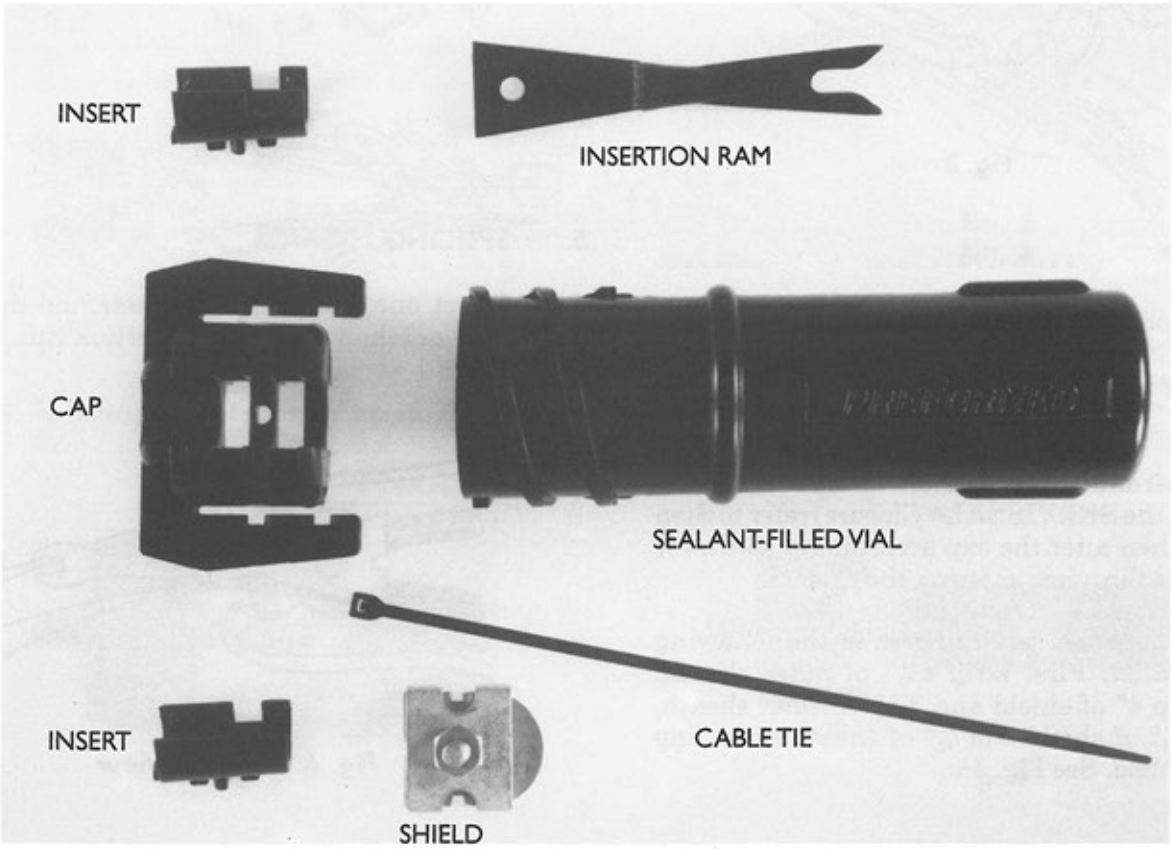
CONTENTS PAGE

1. GENERAL

1.01 The Ranger SERVISEAL® Closure has been designed as a butt splice closure for service wire ranges up to 5 pair and diameters up to .500"

2. DESCRIPTION

2.01 The standard kit of the Ranger SERVISEAL® Closure includes a 1½" sealant filled vial, a connector, a plastic cup with inserts, an insertion ram and a plastic tie for securing the wires to the cap. See Fig. 1.



2.02 The wire grooves in the plastic cap have removable inserts. The insert groove will accept wires from .300″ to .400″ in diameter (Figure 2). Remove the entire insert and the groove diameter is .500″ (Figure 3). Wires of different diameters in the same SERVISEAL® Closure can be accommodated by leaving in or taking out inserts.

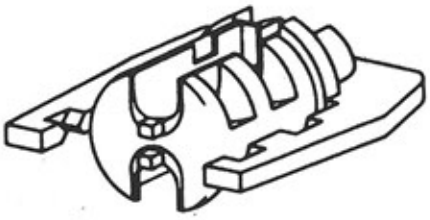


Fig. 2

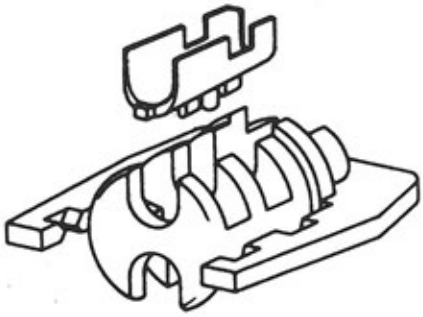


Fig. 3

3. CABLE PREPARATION AND INSTALLATION

3.01 Remove shield connector, cap, ram, and cable tie from the plastic bag. Leave the vial in the bag to protect it from dirt or other contamination.

3.02 Determine the diameters of the wires entering the SERVISEAL® Closure (refer to Step 2.2) and then alter the cap accordingly so that it will accept the wires entering the closure.

3.03 Prepare the service wires in the following manner. First strip 4¾″ of outer sheath. Then strip 4″ of shield and 3⅞″ of inner sheath, leaving ¾″ of shield and ⅛″ of sheath extending beyond shield. See Fig. 4.

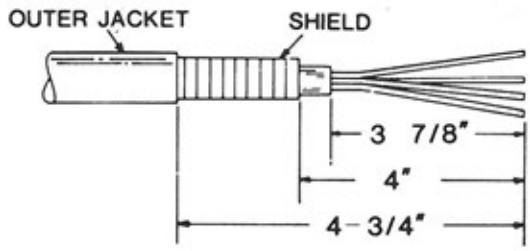


Fig. 4

4. BONDING

4.01 Install shield connector on armored shield, positioning bottom plate as shown in Fig. 5 with stud between the two service wires. Place the top plate over the stud. Place the ram over the top plate and tighten nut securely.

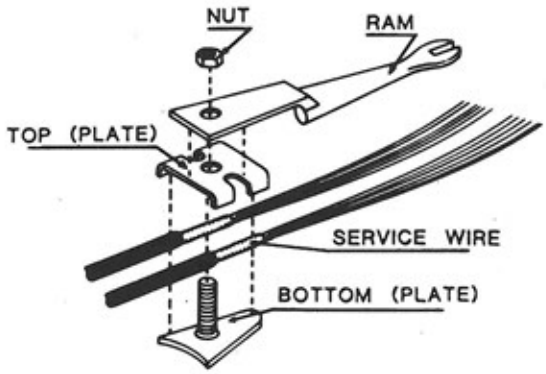


Fig. 5

5. SPLICING

5.01 Select one wire from each pair and drape over notch at end of the insertion ram. See Fig. 6.1

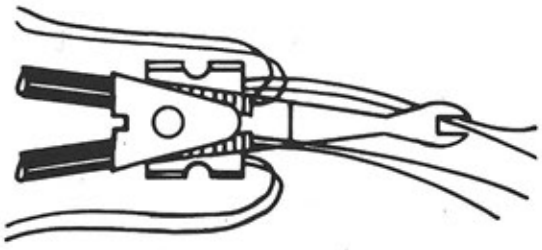


Fig. 6.1-Bottom view

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5.02 Loop the matching wire of each pair outside the insertion ram. See Fig. 6.2

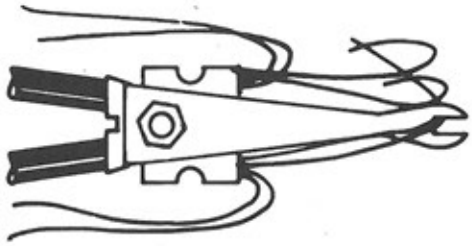

Fig. 6.2

5.03 Trim the wires of each pair so as to stagger the splice bundle beginning at the center portion of the insertion ram. See Fig. 6.3. Next apply the splice connectors. See Fig. 6.4.

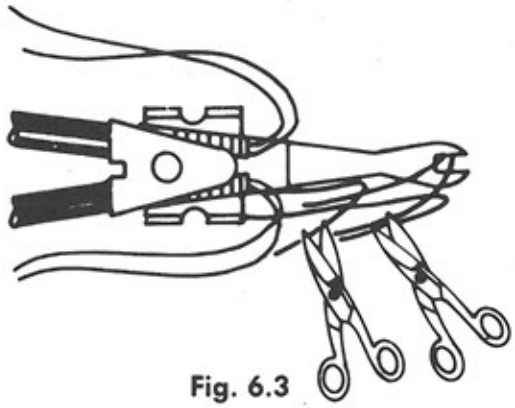

Fig. 6.3

Fig. 6.4

5.04 Refer to photo of finished assembly. See Fig. 6.5

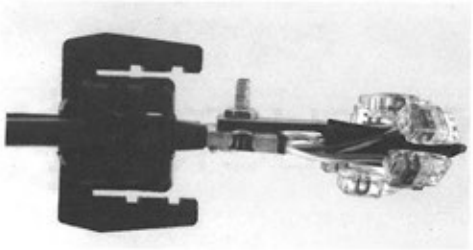

Fig. 6.5

6. FINAL APPLICATION

6.01 Slide the cap onto the cable so that the ears of the cap are flush (or close to it) with the edge of the shield connector. See Fig. 7.

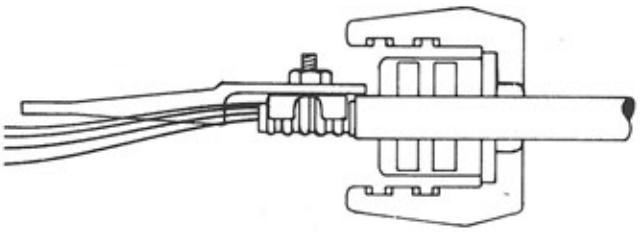

Fig. 7

6.02 Secure the cap to the cables with the cable tie. Insert the tie through the space between the cap and insert area. Wrap the tie completely around the cables and then through its self-locking head (Figure 8). Be sure to position the tie-head into the cap slot located on either side of the cap. This will eliminate interference when assembling the vial. Now cut off excess tie material. See Fig. 8.

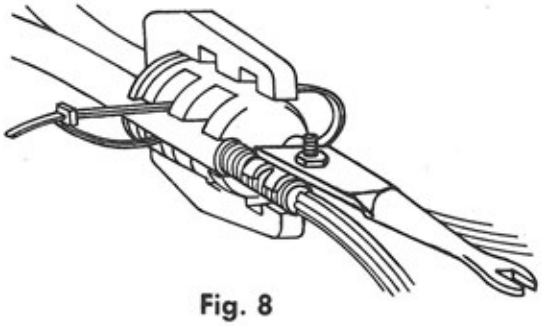

Fig. 8

6.03 Remove the vial from the plastic bag and insert the spliced wires and cap into the sealant-filled vial. Insert the spliced wires and cap into the sealant-filled vial to the point where the cap ears contact the vial threads. See Fig. 9.

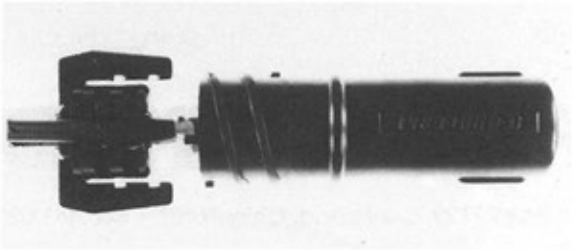

Fig. 9

6.04 Grip the cap firmly with one hand and twist the vial clockwise with the other hand until the ridge around the cap contacts the end of the vial. The sealant will be forced into the voids, creating a seal.

Note: In temperatures below 32° F (0° C), keep the vial warm until application time. Insert in stages to allow the sealant time to fill all voids within the vial.

6.05 This completes the installation. The splice may be buried immediately.

6.06 When entering to check pairs, remove the old vial and replace it with a new vial.

7. SAFETY CONSIDERATIONS

7.01 This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. Failure to follow these procedures may result in personal injury.

7.02 This product is intended for a single (one-time) use and for the specified application. DO NOT REUSE or MODIFY this product under any circumstances.

7.03 When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.

7.04 For proper performance and personal safety, be sure to select the proper size PREFORMED™ product before application.

7.05 This product is intended for use by trained technicians only. This product **should not be used** by anyone who is not familiar with and not trained to use it.