

Figure 1

92-270C

1. INTRODUCTION

AMP MINIWEDGE Connectors are used for above-ground, aluminum-to-aluminum and aluminum-to-copper connections and are available with a protective insulating cover, part number 83364-1. The connector is selected according to wire combinations that cover a range of sizes from No. 14 AWG to 336.4 AAC.

AMP Catalog 65503 provides a guide for wire-to-connector selection. For wire sizes not

referenced in the catalog, contact AMP Product Engineering for recommendations.

Reasons for reissue are provided in Section 6, REVISION SUMMARY.

2. DESCRIPTION

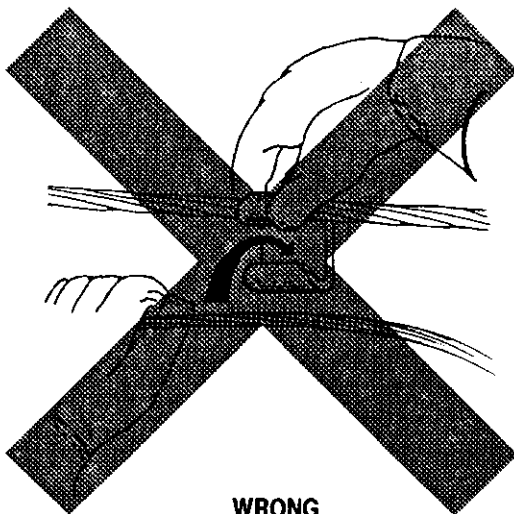
The connector consists of a compliant "C" member and a wedge, both made of aluminum alloy. In use, a locking tab on the wedge will be located in the "C" member inspection window to ensure accurate installation. The wedge is marked with an ID letter OR wire designation to indicate compatible wire size. Refer to Figure 1.

3. CONNECTOR INSTALLATION

DANGER

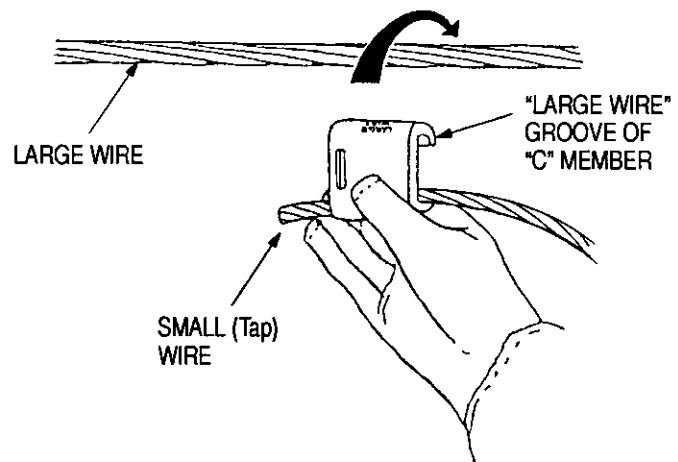
To avoid personal injury, always follow applicable industry safety precautions. Proper personal protective equipment must be worn. Do NOT install MINIWEDGE Connectors with AMPACT tooling.*

1. Strip insulation on wire to 63.5 mm [2.50 in.] and thoroughly clean the stripped wire using approved cleaning methods and materials.
2. Position small wire and "C" member onto large wire, as shown in Figure 2.
3. Push wedge into "C" member, making sure that the locking tab on wedge is on the same side as the inspection window of the "C" member. Strike wedge with pliers to hold wedge in place. See Figure 3.



WRONG

THIS WAY, YOUR HANDS ARE IN SERIES WITH THE CIRCUIT.



RIGHT

HOLD SMALLER (TAP) WIRE IN "C" MEMBER, THEN HOOK "C" MEMBER OVER LARGER WIRE.

Figure 2

92-271A, 92-271B

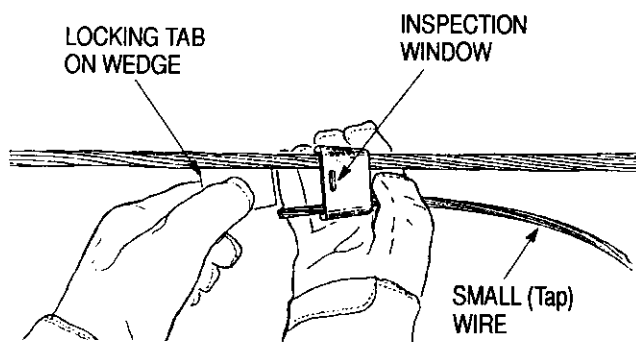


Figure 3 92-263B

CAUTION

For aluminum-to-copper connections, the copper wire must always be below the aluminum wire.

4. Use large parallel jaw pliers to secure wedge in "C" member. See Figures 4 and 5.

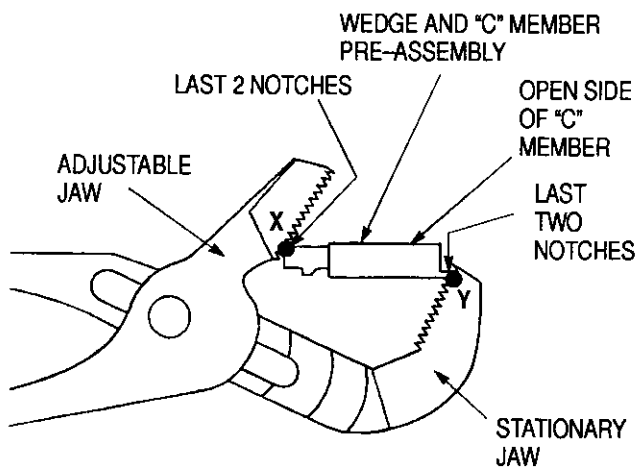


Figure 4 94-359

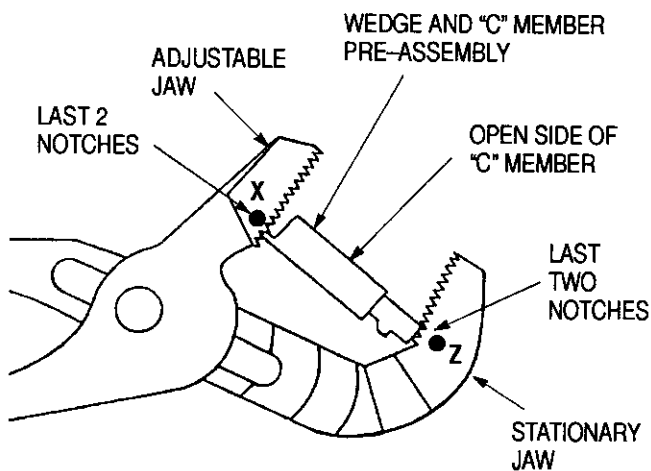


Figure 5 94-360

NOTE

To reduce effort required, strike wedge with pliers until the rear of the wedge protrudes by 9 mm [.375 in.]. Maximum mechanical advantage occurs when the connector assembly is positioned in-between points X and Y, as shown in Figure 4. (Figure 5 shows an alternate installation position between points X and Z). Use pliers with long handles, 305 mm [12 in.] or larger.

5. Check that locking tab on wedge is located in the inspection window.

6. If the protective insulating cover is required, place cover over completed connection and snap shut. See Figure 6.

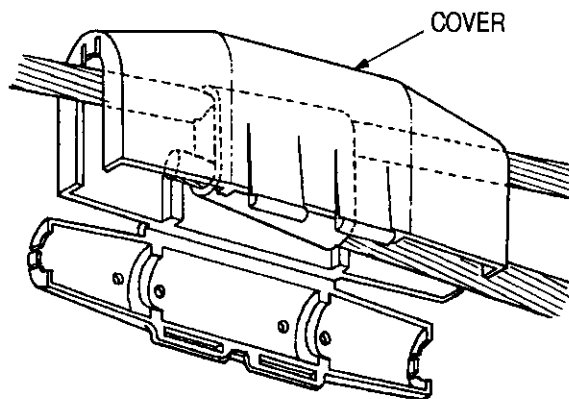


Figure 6 92-264A

4. CONNECTOR REMOVAL

1. Cut through material outside of inspection window on "C" member, as shown in Figure 7.

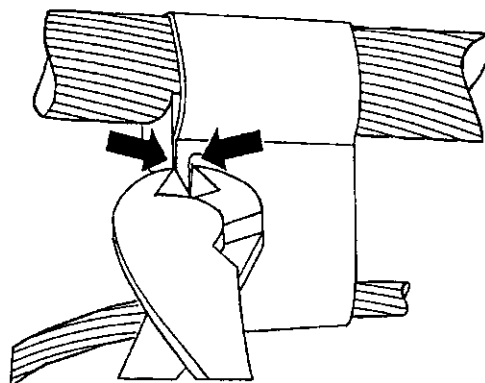


Figure 7 92-227A

2. Bend material to the side of inspection window.

3. Anchor open pliers in slot and nudge wedge out of the other side. Remove wedge from "C" member. See Figure 8. Do NOT reuse removed connectors.

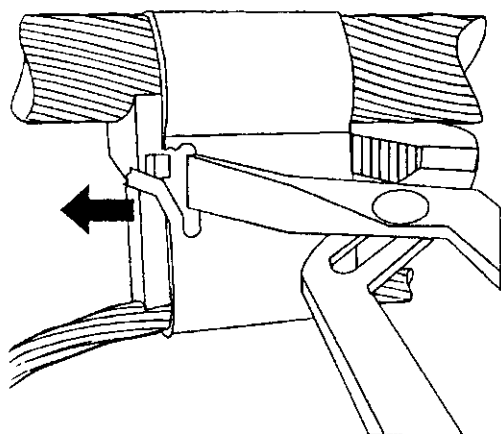


Figure 8

92-229A

5. ADDITIONAL INFORMATION

For additional information, contact your AMP representative, or call (USA) 1-800-722-1111, or (Canada) 1-905-470-4425, or write to:

CUSTOMER SERVICE (38-35)
AMP INCORPORATED
P.O. BOX 3608
HARRISBURG PA 17105-3608

or

AMP OF CANADA LTD.
20 ESNA PARK DRIVE
MARKHAM, ONTARIO
CANADA L3R 1E1

Oxide Inhibitor – See: *Material Safety Data Sheet 125-6369*, available upon request.

6. REVISION SUMMARY

Revisions to this document include:

Per EC 2000-0076-94:

- Revised DANGER note in Section 3
- Revised Section 3, CONNECTOR INSTALLATION
- Revised orientation of tap wire (small wire) exiting to right in Figures 2 and 3
- Revised NOTE following Figure 3
- Revised art in Figure 4, added new Figure 5; revised following figure numbers
- Added Oxide Inhibitor to Section 5, ADDITIONAL INFORMATION