

BODY STRENGTH	PULLING EYE STRENGTH	WEIGHT (Without Tap Connectors)
44500 N [10,000 lbf]	26700 N [6,000 lbf]	9.45 kg [21 lbs]

Figure 1

1. INTRODUCTION

AMPACT In-Line Disconnect Assemblies 83881-[], 109202-[], 109203-[], 109256-[], 109257-[], 109258-[], 1443456-[], and 1443458-[] are used to provide circuit isolation for aluminum overhead distribution power lines. The disconnect assembly is available for a variety of conductor sizes (refer to Catalog 65986). Disconnect assemblies 83881-[], 109202-[], 109203-[], and 1443458-[] include two pre-assembled AMPACT deadend tap connectors for temporary or permanent installations.

The disconnect assembly can be installed manually or by hot stick application methods. For application procedures and safety precautions, refer to Customer Manual 409-2106 for AMPACT Tooling and 409-2197 for AMPACT Hot Stick Kit.

NOTE *The connector "C" member is marked with information pertaining to proper cartridge selection for use in application tooling.*

Reasons for reissue of this sheet are provided in Section 7, REVISION SUMMARY.

2. DESCRIPTION

The disconnect assembly consists of two deadend yoke plates, two insulator assemblies, two conductor

retainers, and a single pole disconnect blade. Each deadend yoke plate holds a deadend tap connector. The spring-loaded conductor retainers feature an eye keeper which is used to lock the assembly onto the conductor. A pulling eye on the end of each deadend yoke plate is used for releasing conductor tension. See Figure 1.

3. INSTALLATION

DANGER *Avoid personal injury, always follow industry safety precautions and the safety precautions stated in referenced manuals.*

3.1. Installing Assembly to Conductor

1. Make sure that the assembly is compatible with the conductor size being used.
2. Thoroughly clean conductors using company approved cleaning methods and materials.

NOTE *Insulated conductors must be stripped before installing tap connectors. Refer to the instructions supplied with the application tooling for proper strip lengths.*

3. Lift and pivot each eye keeper 180° to the locked open position. See Figure 2.

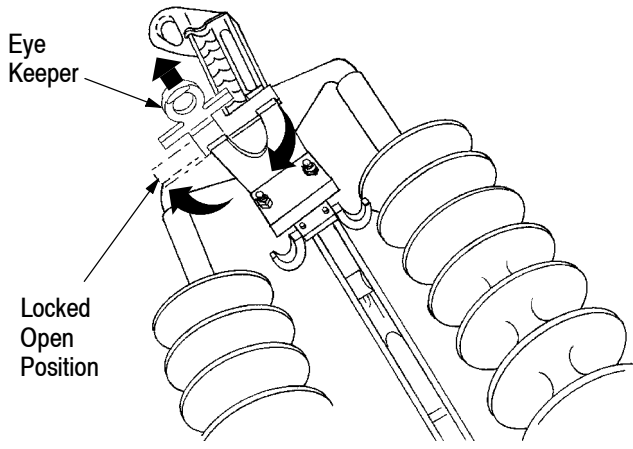


Figure 2

4. Holding on to the single pole disconnect blade, position the assembly above the clean conductor with the blade centered over the conductor, as shown in Figure 3.

5. Rest the assembly on the clean conductor so that the conductor retainers sit on the conductor. Pull and pivot each eye keeper 180° to the locked closed position. See Figure 4.

6. Rotate the assembly until it hangs below the conductor. The connector retainers will support the assembly on the conductor. Refer to Figure 5.

3.2. Installing Tap Connectors to Assembly

1. Starting with either end of the assembly, place the open side of the deadend tap connector “C” member over the conductor and slide the end into the slot in the deadend yoke plate. See Figure 5.

2. Center the “C” member between the assembly pulling eye and the positioning mark on the side of the deadend yoke plate. Make sure the wide end of the “C” member is adjacent to the pulling eye. Refer to Figure 6.

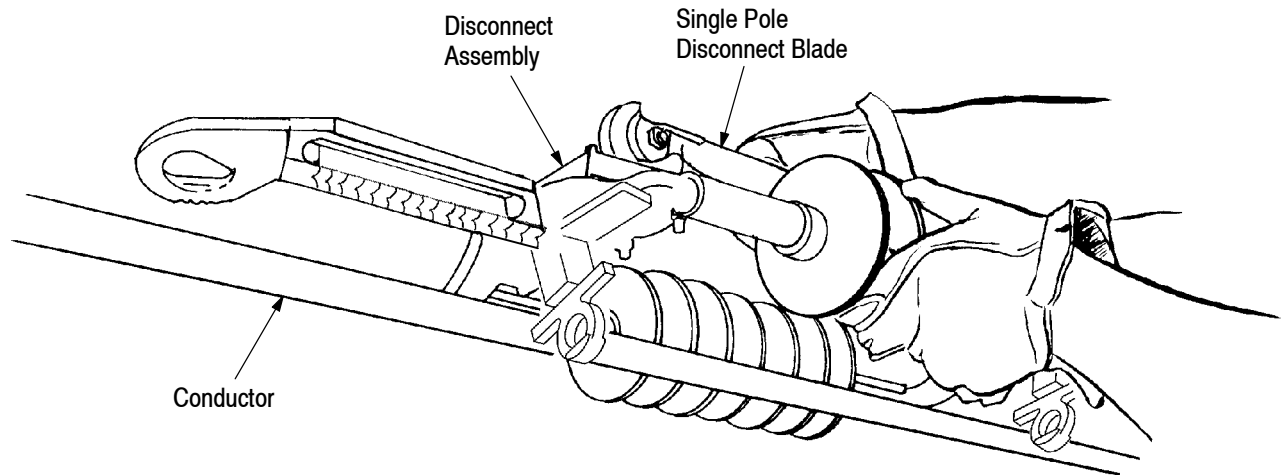


Figure 3

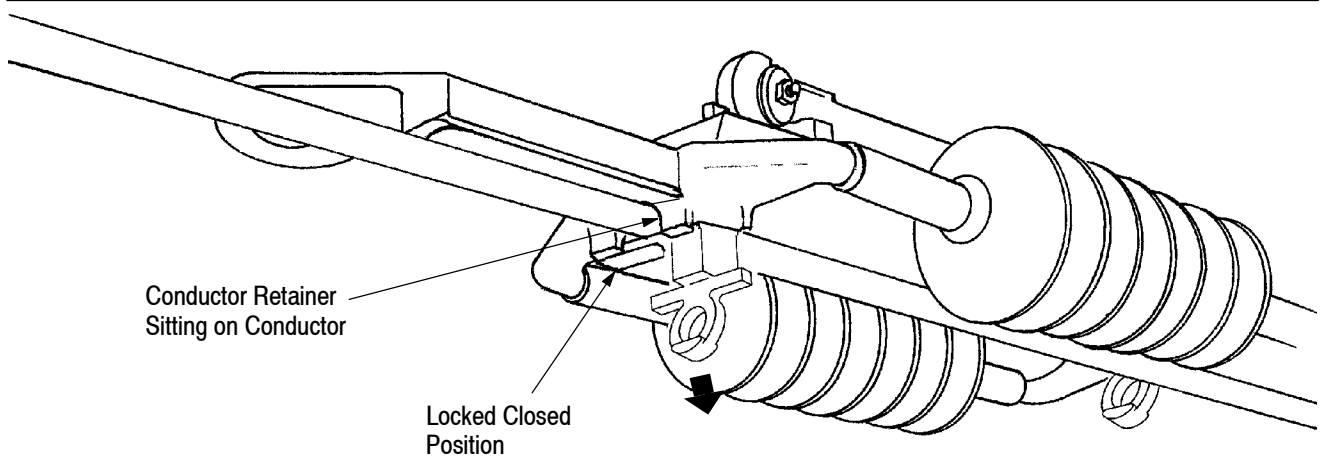


Figure 4

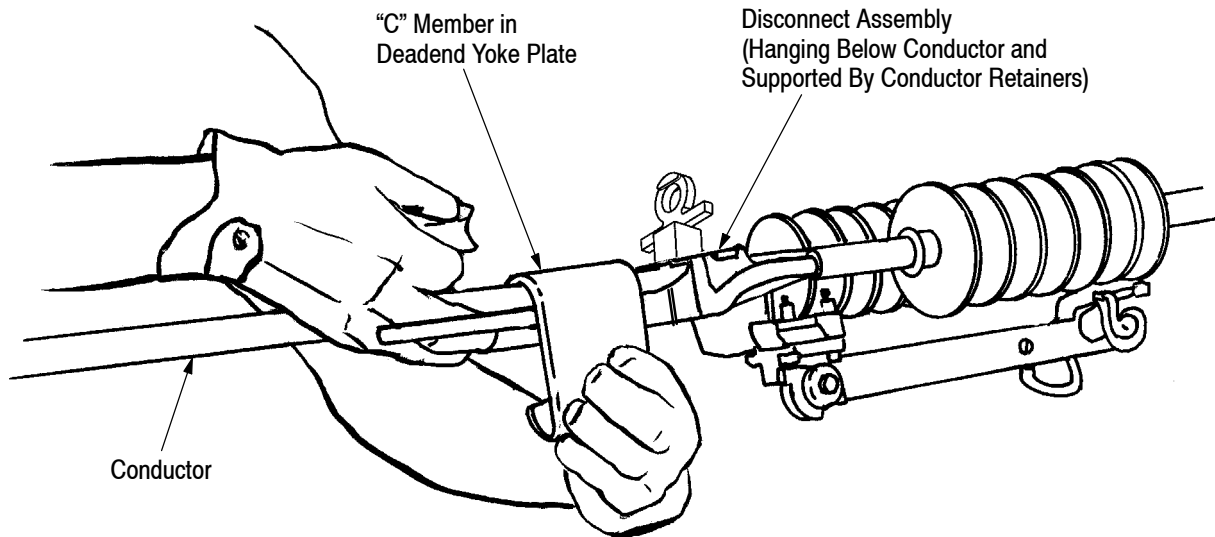



Figure 5

3. Install the tap connector wedge with the large groove positioned against the deadend yoke plate. See Figure 6. After installation, the markings on the wedge should be visible (refer to Figure 1).


4. Apply the tap connector with the proper application tooling. Follow the instructions supplied with the tooling.

DANGER  The AMPACT tool is powder-actuated and must be operated with care. Read, understand, and follow all instructions for the safe use of the AMPACT tool.


5. Apply a tap connector to the other end of the assembly following the same procedure.

6. Pull and pivot the eye keepers 180° to the locked open position. See Figure 7.

3.3. Cutting the Conductor

NOTE  Ensure that the single pole disconnect blade is in the locked closed position. Refer to Figure 6.

1. Install bypass jumper cables per approved company practices. Refer to Figure 7.

DANGER  To avoid personal injury, bypass jumper cables **must** be installed before cutting the conductor.

2. Cut the conductor, using the appropriate cutting tool, between the deadend yoke plates. Refer to Figure 7.

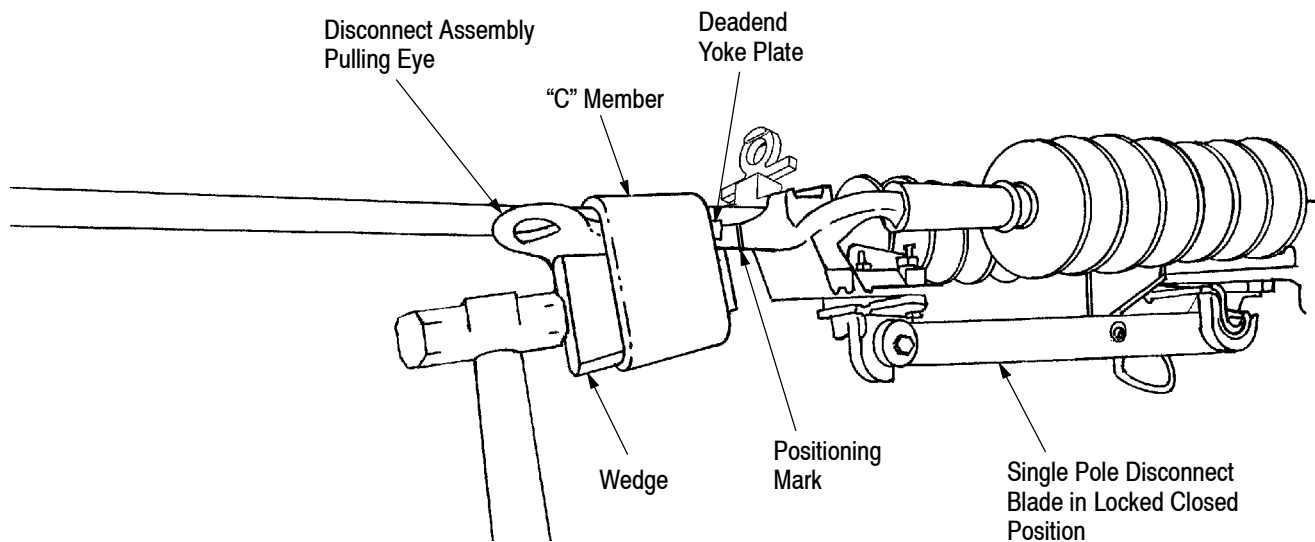


Figure 6

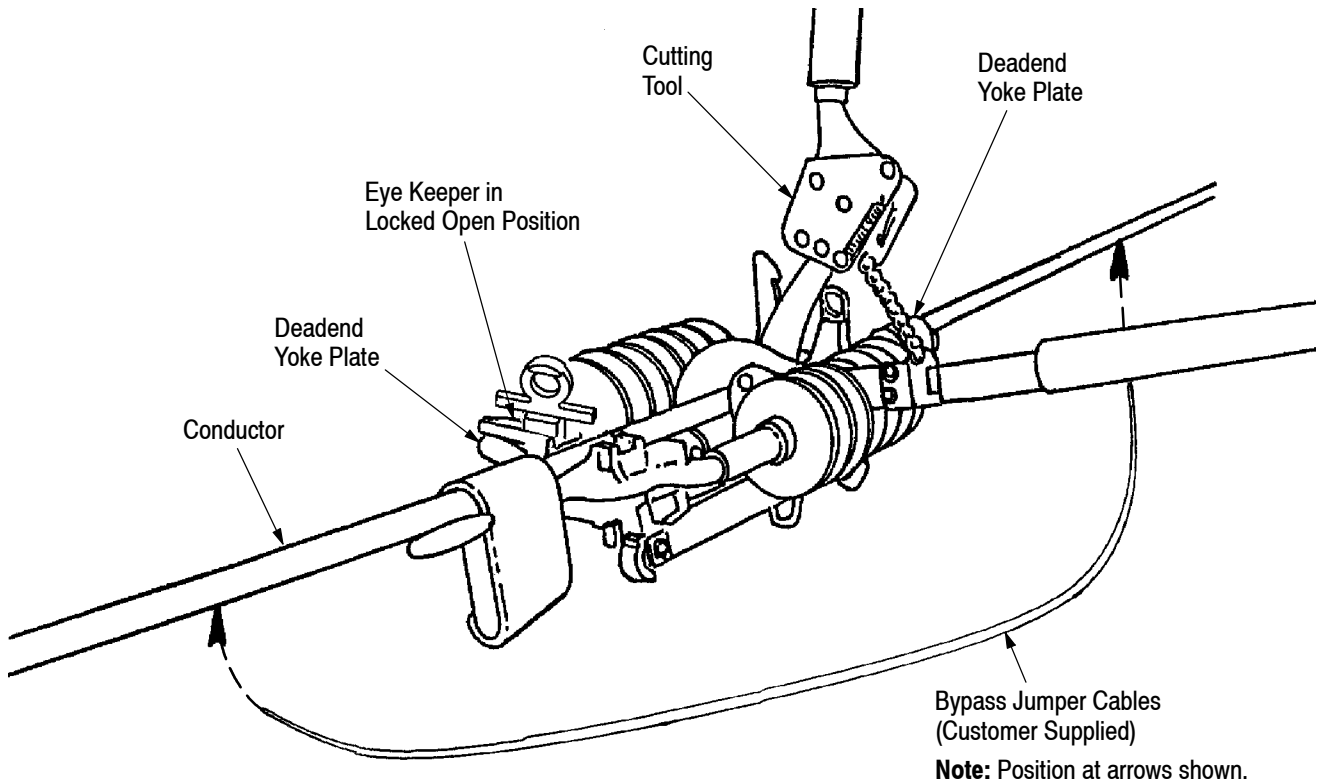




Figure 7

3. Bend each conductor end toward its respective deadend yoke plate according to approved company practices.

4. REMOVAL

CAUTION  To avoid personal injury, bypass jumper cables **must** be installed before the removal of tap connectors or the assembly.

1. Relieve conductor tension by using the assembly pulling eyes or by following other company approved methods.
2. Remove the tap connectors from the deadend yoke plates according to the instructions supplied with the application tooling.

NOTE  Do not reuse tap connectors ("C" member and wedge) after removal. If additional tap connectors are needed, refer to Section 6, REPLACEMENT.

5. INSPECTION

The assembly should be inspected immediately upon arrival at your facility and at regularly scheduled intervals thereafter to ensure that the assembly has not been damaged. Examine the assembly for any signs of damage or excessive wear.

6. REPLACEMENT

AMPACT deadend tap connectors are not reusable after removal, however the disconnect assembly can be reused by replacing the deadend tap connectors. Refer to Catalog 65986 for disconnect assembly part numbers and corresponding deadend tap connector part numbers.

7. REVISION SUMMARY

Revisions to this document include:

- Updated document to corporate requirements.