



ComProtect® 2/1 CP ASU240A1 Installation Instructions

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INTRODUCTION

This installation instruction describes how to install the ground bar and ComProtect 2/1CP onto the KRONE termination block. Each ground bar completes the electrical connection (ground) to the Back Mount Frame that the termination block is mounted on. One ground bar is required for each KRONE termination block.

Revision History

ISSUE	DATE	REASON FOR CHANGE
1	02/2005	Original printing.

List of Changes

PAGE	IDENTIFIER	DESCRIPTION OF CHANGE
–	–	New publication.

Trademark Information

ADC and ComProtect are registered trademarks of ADC Telecommunications, Inc.

Admonishments

Important safety admonishments are used throughout this manual to warn of possible hazards to persons or equipment. An admonishment identifies a possible hazard and then explains what may happen if the hazard is not avoided. The admonishments — in the form of Dangers, Warnings, and Cautions — must be followed at all times. These warnings are flagged by use of the triangular alert icon (seen below), and are listed in descending order of severity of injury or damage and likelihood of occurrence.



Danger: *Danger is used to indicate the presence of a hazard that **will** cause severe personal injury, death, or substantial property damage if the hazard is not avoided.*



Warning: *Warning is used to indicate the presence of a hazard that **can** cause severe personal injury, death, or substantial property damage if the hazard is not avoided.*



Caution: *Caution is used to indicate the presence of a hazard that **will** or **can** cause minor personal injury or property damage if the hazard is not avoided.*

General Safety Precautions



Warning: *Wet conditions increase the potential for receiving an electrical shock when installing or using electrically-powered equipment. To prevent electrical shock, never install or use electrical equipment in a wet location or during a lightning storm.*

Certification

This protector is listed to UL 497, “Standard for Protectors for Paired-Conductor Communications Circuits”.

1 APPROVED PROTECTION

The installer must use the following UL listed protector:

ComProtect 2/1 CP ASU240A1	Operating Voltage:	240 V
	Minimum Breakdown Voltage:	265 V
	Maximum Breakdown Voltage:	400 V

- ▶ **Note:** Primary protectors shall be installed in accordance with the applicable requirements of the National Electric Code ANSI/NFPA-70, Article 800, Section C. The above listed model numbers are intended for INDOOR USE ONLY or INSIDE CABINETS THAT ARE ENVIRONMENTALLY PROTECTED.

This ComProtect model is intended to be coordinated with 26 AWG or physically smaller fuse wire.



Caution: *A shorted protector is an indication of an abnormal current or voltage in the circuit, which still may exist. Eliminate any over-current or over-voltage condition before removing and replacing a Single-Pair Protector.*



Warning: During a lightning storm, avoid all physical contact with the Single-Pair Protector, Ground Bar, Back Mount Frame or Rod Mount Bracket and the #6 AWG ground wire or its termination. Never install telephone wiring during a lightning storm.

2 INSTALLATION

Several termination blocks are normally installed in a mounting frame. Two types of KRONE termination blocks may be used with the ComProtect Single-Pair Protectors; One is a Disconnect (white) block the other is a Switching (brown) block. When a ComProtect Single-Pair Protector is removed from a Disconnect (white) block, the circuit is still active. Conversely, when a ComProtect Single-Pair Protector is removed from a Switching (brown) block, the circuit is opened.

► **Note:** ComProtect® 2/1 CP Single-Pair Protectors are used with LSA-PLUS & LSA PROFIL Series 2 Disconnect and Switching termination blocks.

1. Install a ground bar on each termination block (Figure 1). The ground bar contacts the Back Mount Frame that the termination block is mounted on. One ground bar is required for each termination block.

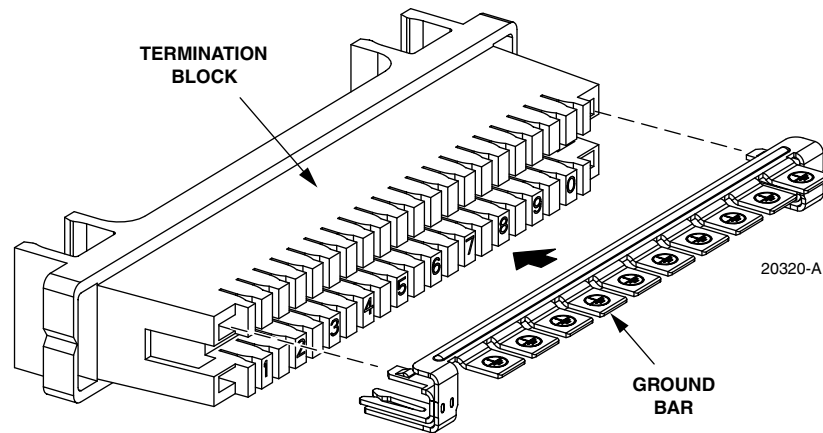


Figure 1. Ground Bar Installation

2. Insert the ComProtect Single-Pair Protector into the access port on the Disconnect or Switching termination block. Correct installation is shown in (Figure 2). Incorrect installation is shown in (Figure 3). One protector is needed for every pair that requires protection. Make sure that the ground clip on the ComProtect Single-Pair Protector seats onto the ground bar.

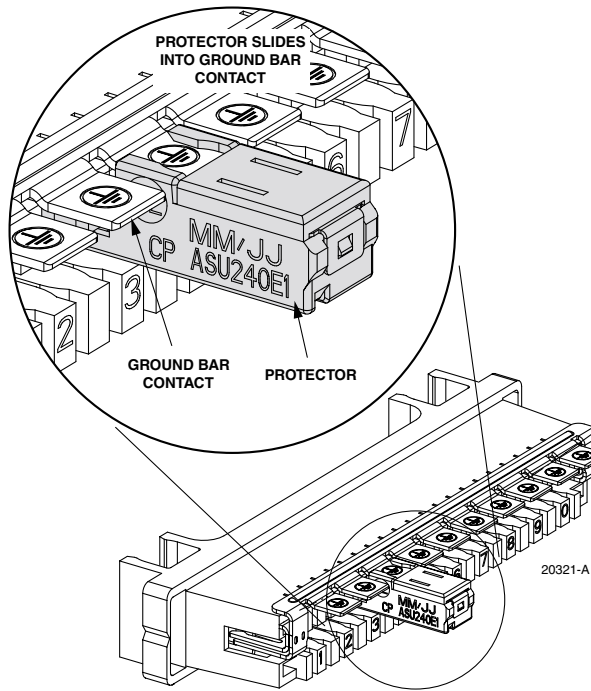


Figure 2. Correct ComProtect Single-Pair Protector Installation

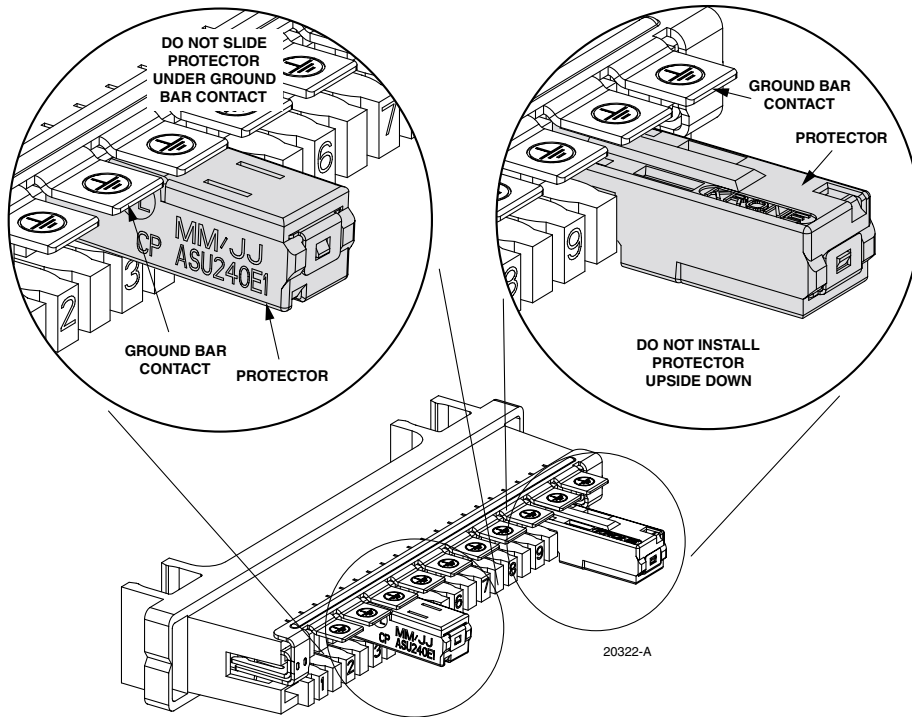


Figure 3. Incorrect ComProtect Single-Pair Protector Installation

3. Remove a ComProtect Single-Pair Protector by simply using the hook on the KRONE Insertion Tool and pulling the protector straight out of the KRONE termination block (Figure 4).

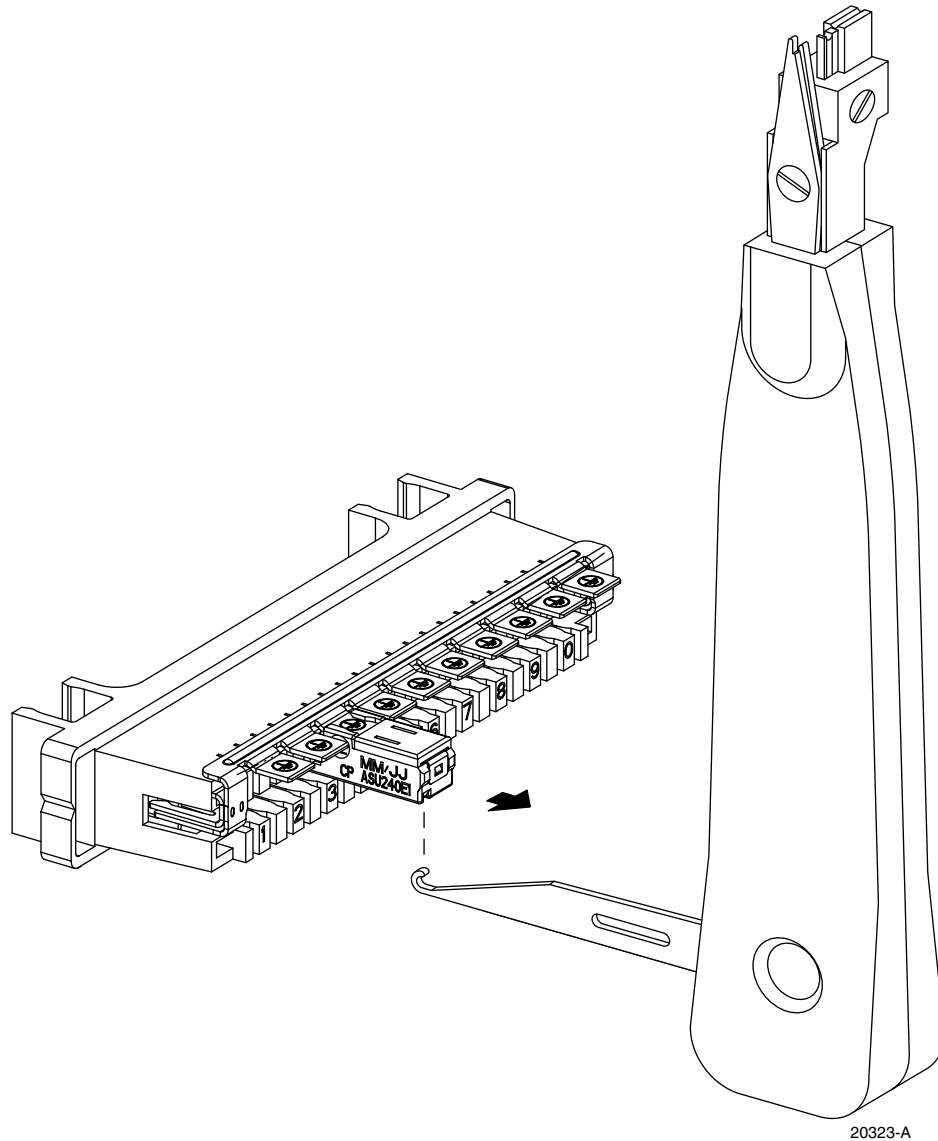


Figure 4. ComProtect Single-Pair Protector Removal

3 GROUNDING

The Back Mount Frame or Rod Mount Bracket must be properly grounded (Figure 5 or Figure 6). Attach a number 6 AWG ground wire connected to an approved external ground to the Back Mount Frame or Rod Mount Bracket. On some models, a double ground lug has been provided on the Back Mount Frame. The ground resistance from ground bar to nearest qualified ground must be less than 0.05 Ohms.

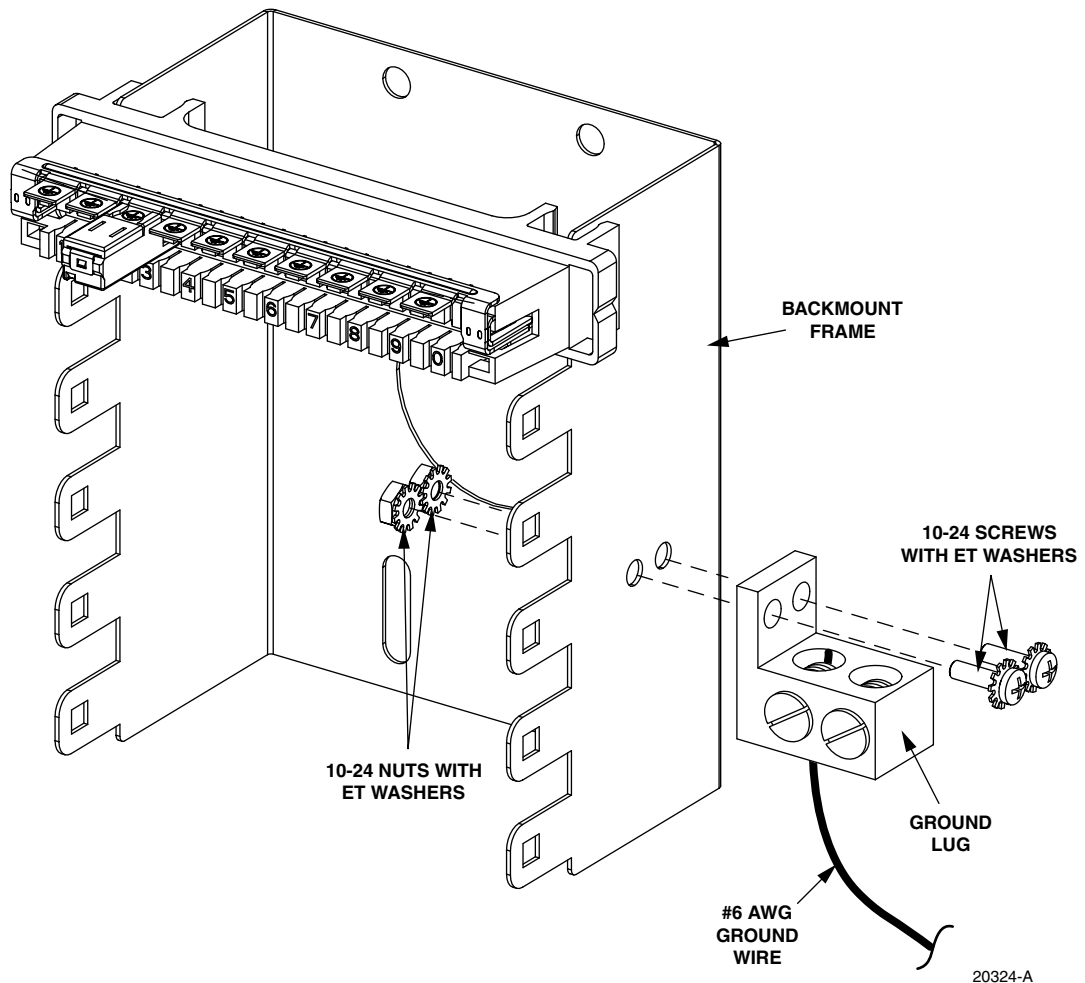


Figure 5. Back Mount Frame Ground Lug Mounting

- **Note:** When using LSA-PROFIL termination blocks that have been installed on Rod Mount Brackets, two Earth Clips (6089 3 202-00) are required for proper grounding (Figure 6). One Earth Clip is required for each ground bar (2 per termination block).

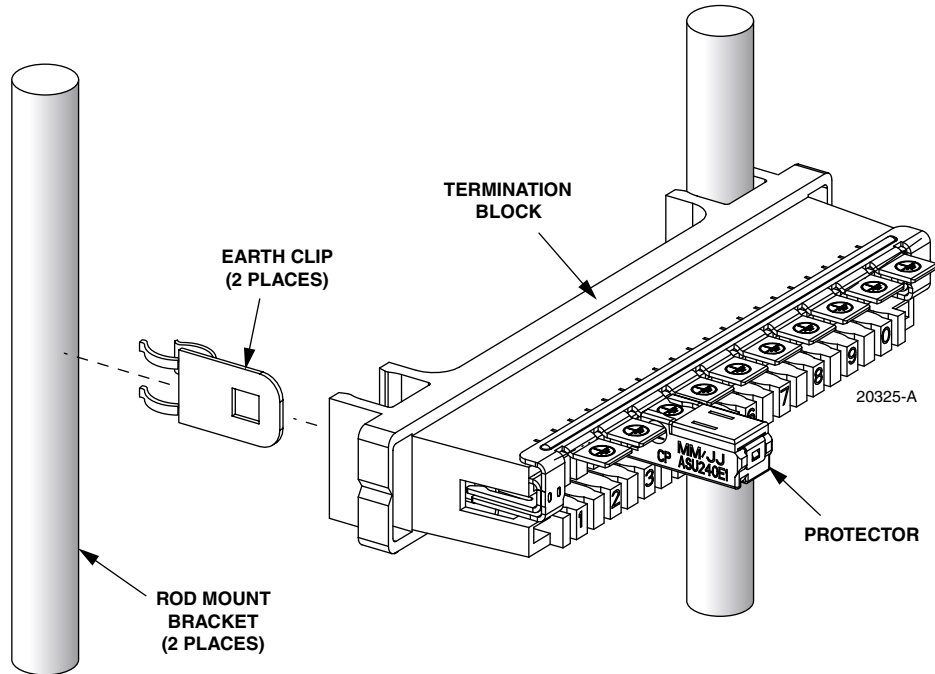


Figure 6. Ground Rod Mounting Bracket

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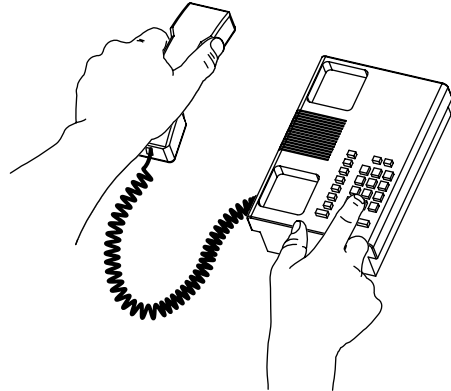
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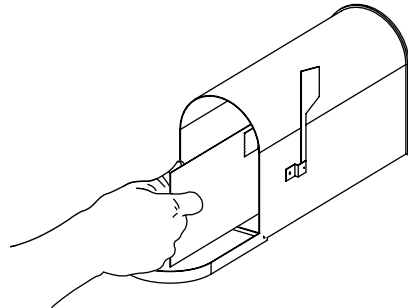


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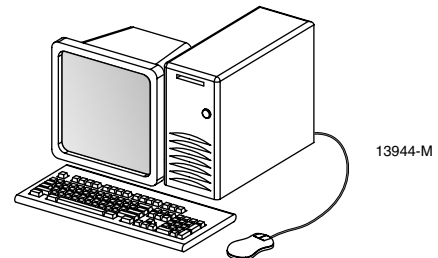
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