



*HP 75000 Series C*

# **HP E1409B C-Size VXIbus Chassis Shield**

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## **Installation Guide**



Manual Part Number: E1409-90003  
Printed in U.S.A. E1096

*Notes*

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HP E1409B Installation Guide  
Edition 2

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## Documentation History

All Editions and Updates of this manual and their creation date are listed below. The first Edition of the manual is Edition 1. The Edition number increments by 1 whenever the manual is revised. Updates, which are issued between Editions, contain replacement pages to correct or add additional information to the current Edition of the manual. Whenever a new Edition is created, it will contain all of the Update information for the previous Edition. Each new Edition or Update also includes a revised copy of this documentation history page.

Edition 1 ..... September 1992  
Edition 2 ..... October 1996

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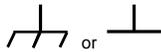
## Safety Symbols



Instruction manual symbol affixed to product. Indicates that the user must refer to the manual for specific WARNING or CAUTION information to avoid personal injury or damage to the product.



Indicates the field wiring terminal that must be connected to earth ground before operating the equipment—protects against electrical shock in case of fault.



Frame or chassis ground terminal—typically connects to the equipment's metal frame.



Alternating current (AC).



Direct current (DC).



Indicates hazardous voltages.

**WARNING**

Calls attention to a procedure, practice, or condition that could cause bodily injury or death.

**CAUTION**

Calls attention to a procedure, practice, or condition that could possibly cause damage to equipment or permanent loss of data.

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## WARNINGS

**The following general safety precautions must be observed during all phases of operation, service, and repair of this product. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the product. Hewlett-Packard Company assumes no liability for the customer's failure to comply with these requirements.**

**Ground the equipment:** For Safety Class 1 equipment (equipment having a protective earth terminal), an uninterruptible safety earth ground must be provided from the mains power source to the product input wiring terminals or supplied power cable.

**DO NOT operate the product in an explosive atmosphere or in the presence of flammable gases or fumes.**

For continued protection against fire, replace the line fuse(s) only with fuse(s) of the same voltage and current rating and type. DO NOT use repaired fuses or short-circuited fuse holders.

**Keep away from live circuits:** Operating personnel must not remove equipment covers or shields. Procedures involving the removal of covers or shields are for use by service-trained personnel only. Under certain conditions, dangerous voltages may exist even with the equipment switched off. To avoid dangerous electrical shock, DO NOT perform procedures involving cover or shield removal unless you are qualified to do so.

**DO NOT operate damaged equipment:** Whenever it is possible that the safety protection features built into this product have been impaired, either through physical damage, excessive moisture, or any other reason, REMOVE POWER and do not use the product until safe operation can be verified by service-trained personnel. If necessary, return the product to a Hewlett-Packard Sales and Service Office for service and repair to ensure that safety features are maintained.

**DO NOT service or adjust alone:** Do not attempt internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.

**DO NOT substitute parts or modify equipment:** Because of the danger of introducing additional hazards, do not install substitute parts or perform any unauthorized modification to the product. Return the product to a Hewlett-Packard Sales and Service Office for service and repair to ensure that safety features are maintained.

## Introduction

This guide shows how to install an HP E1409B C-Size VXIbus Chassis Shield into an HP 75000 Series C Model HP E1401A Mainframe. Figure 1 shows the chassis shield parts and part numbers.

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**WARNING**     **SHOCK HAZARD.** Only service-trained personnel who are aware of the hazards involved should install, remove, or configure the system. Disconnect all power sources to the mainframe and to all installed modules before beginning the installation.

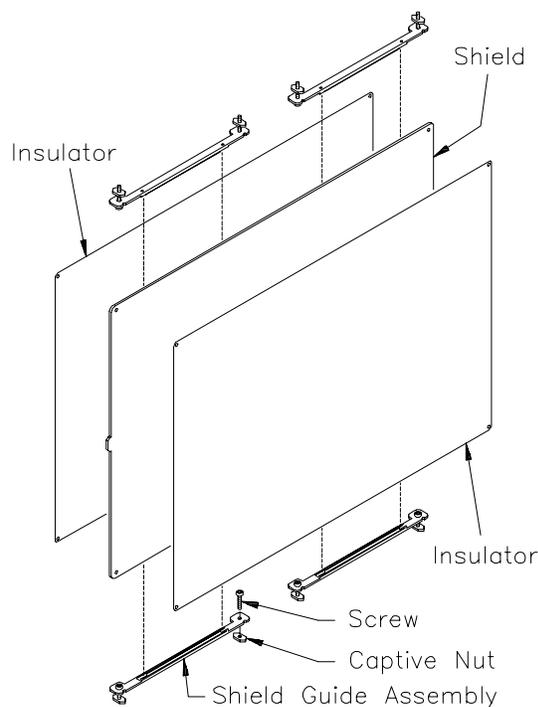
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**CAUTION**     Chassis shield guide installations between slots 2 and 3, 5 and 6, or 9 and 10 require removal of a rail channel screw (see Step 4). If you later remove a shield guide between any of these slots, replace this screw to ensure RFI and airflow integrity of the mainframe.

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**NOTE**     This guide shows how to install a single chassis shield between slots 0 and 1. If you want to install more than one shield, you should install all shield guides at the same time.

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**HP E1409B Replaceable Parts**

Part Number	Qty.	Description
E1409-00602	1	Chassis Shield Assembly
E1409-81202	4	Shield Guide Assembly
E1409-84101	2	Insulator
0515-1108	8	Screw - PHD M2.5x12mm
0515-0122	8	Captive Nut, M2.4x0.45

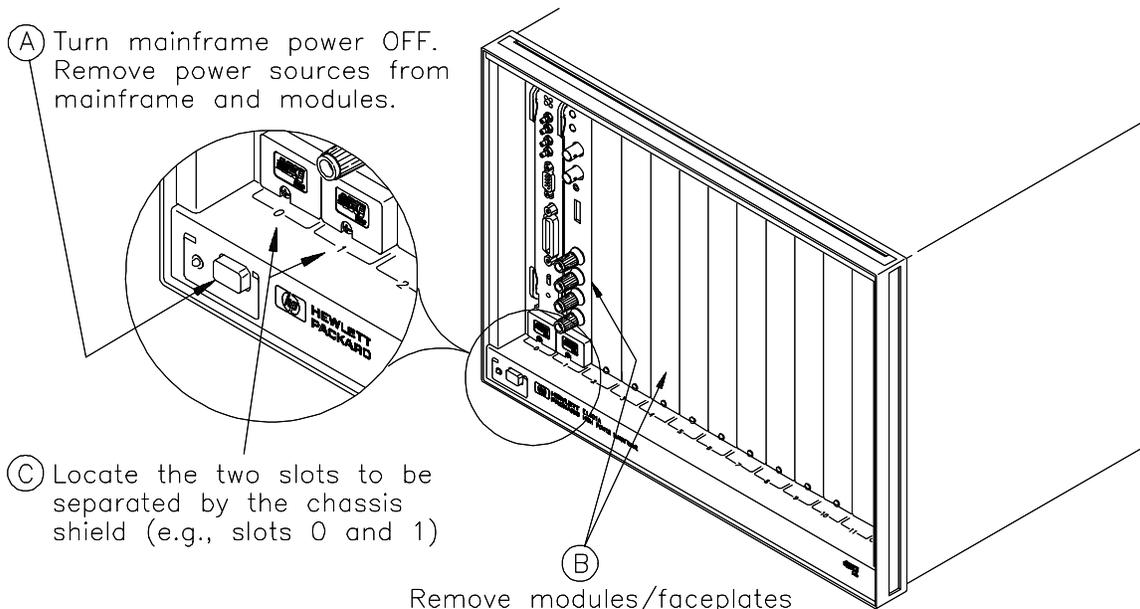
**Figure 1. HP E1409B Chassis Shield Kit**

### Step 1. Prepare the Mainframe

(A) Turn mainframe power OFF. Remove power sources from mainframe and modules.

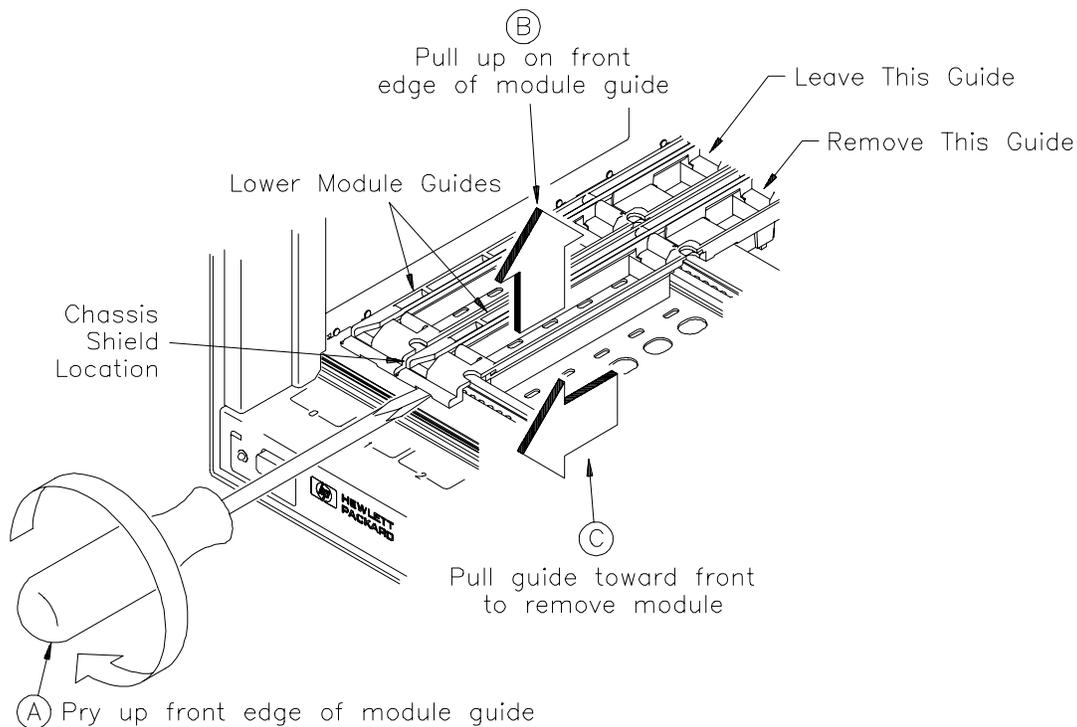
(C) Locate the two slots to be separated by the chassis shield (e.g., slots 0 and 1)

(B) Remove modules/faceplates



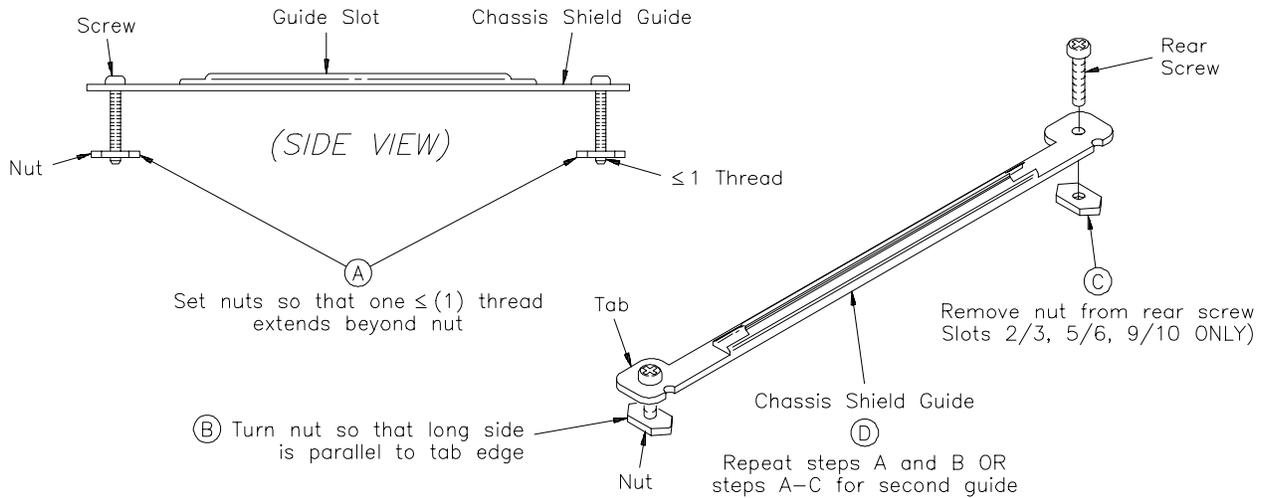
### Step 2. Remove the Lower Module Guide

Remove the lower module guide from the slot at the right of the chassis shield location. Do not remove the module guide at the left of the chassis shield location. (This publication shows chassis shield installation between slots 0 and 1.)

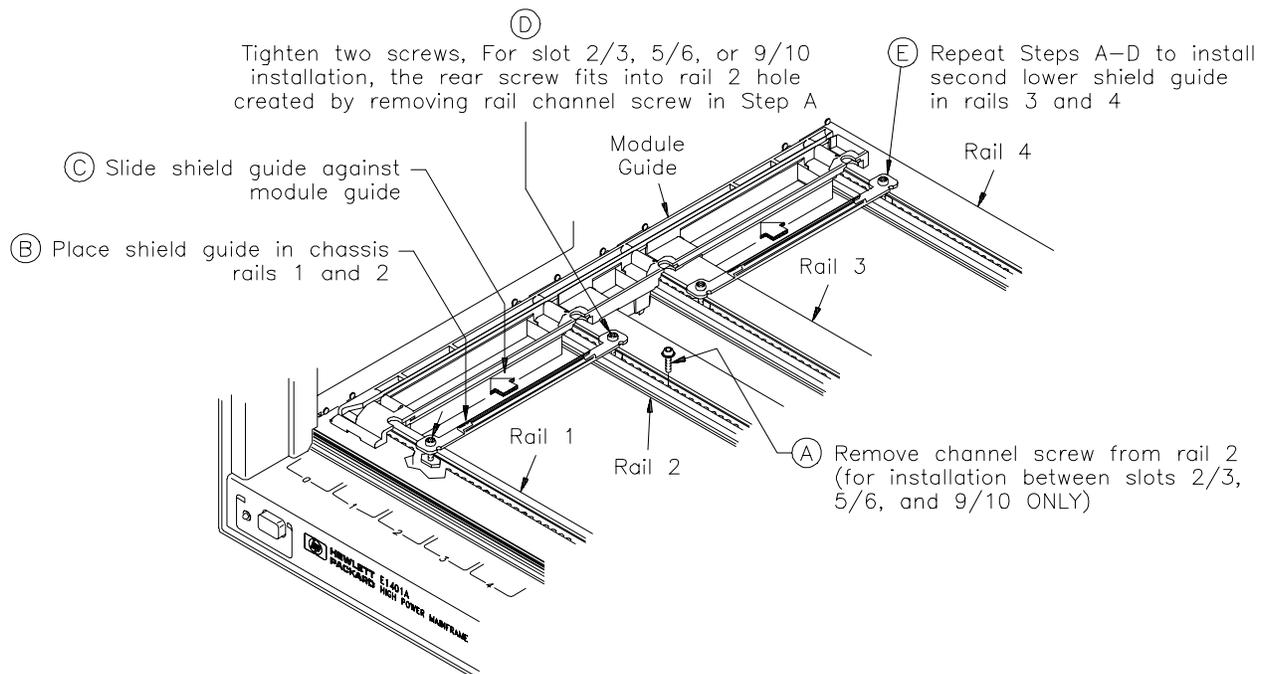


### Step 3. Prepare Two (2) Lower Shield Guides

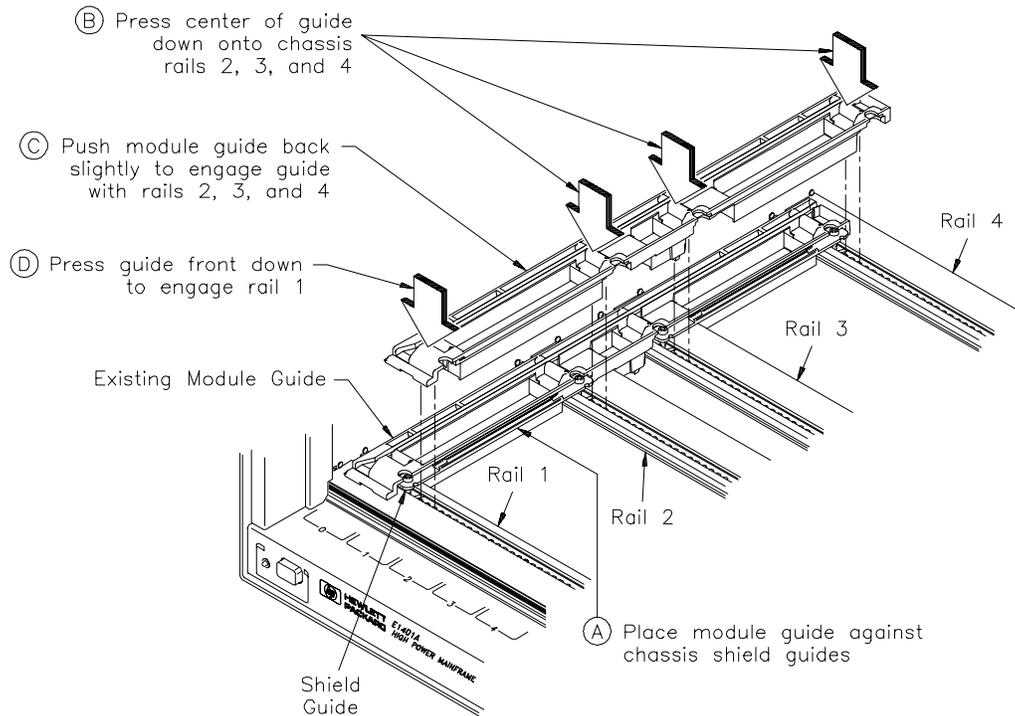
If the chassis shield is to be installed between slots 2 and 3, 5 and 6, or 9 and 10, do (C). For installation in other slots, skip (C). You will need to prepare TWO lower shield guides.



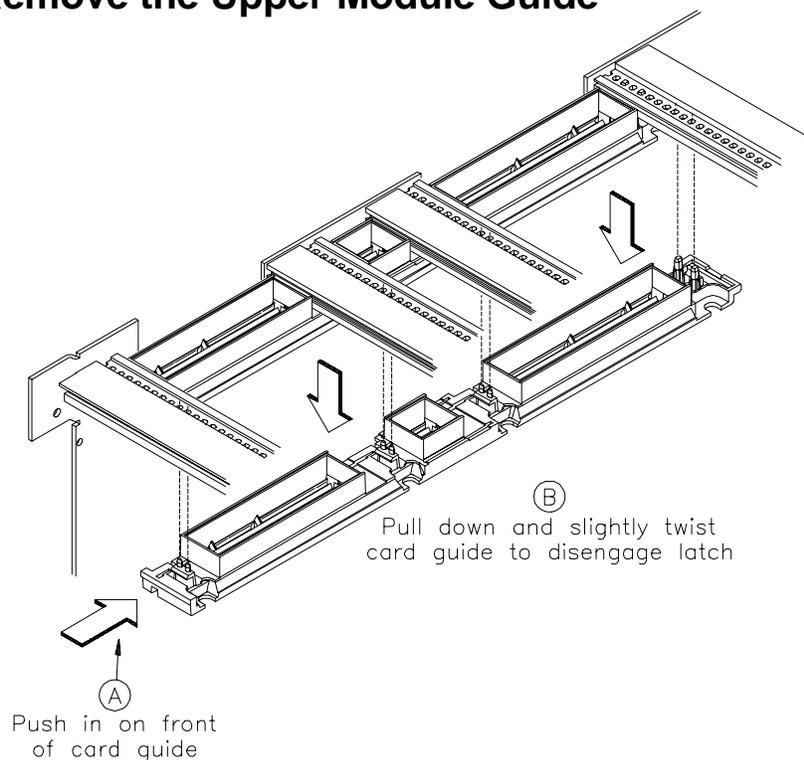
### Step 4. Install Two (2) Lower Shield Guides



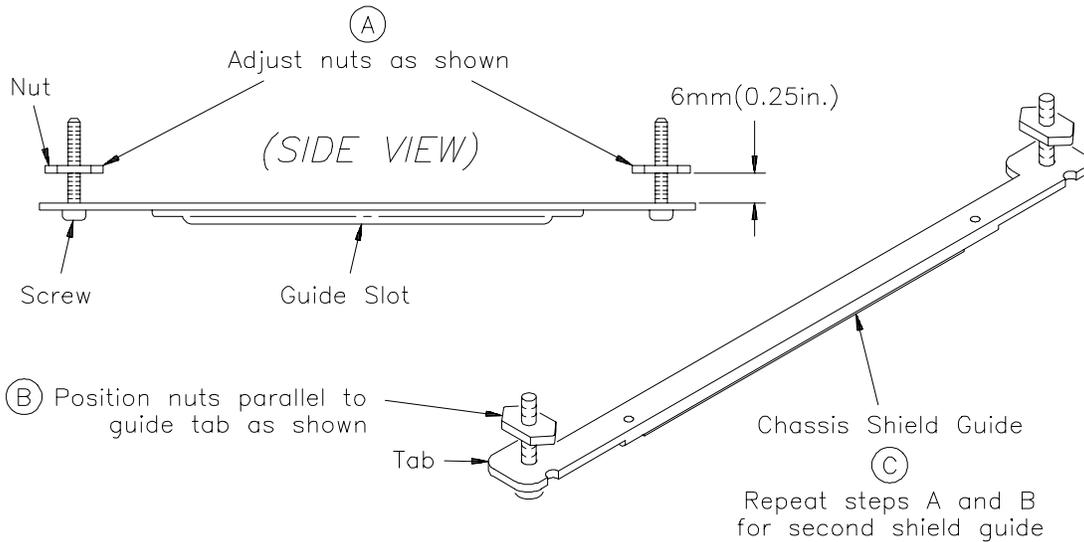
### Step 5. Reinstall Lower Module Guide



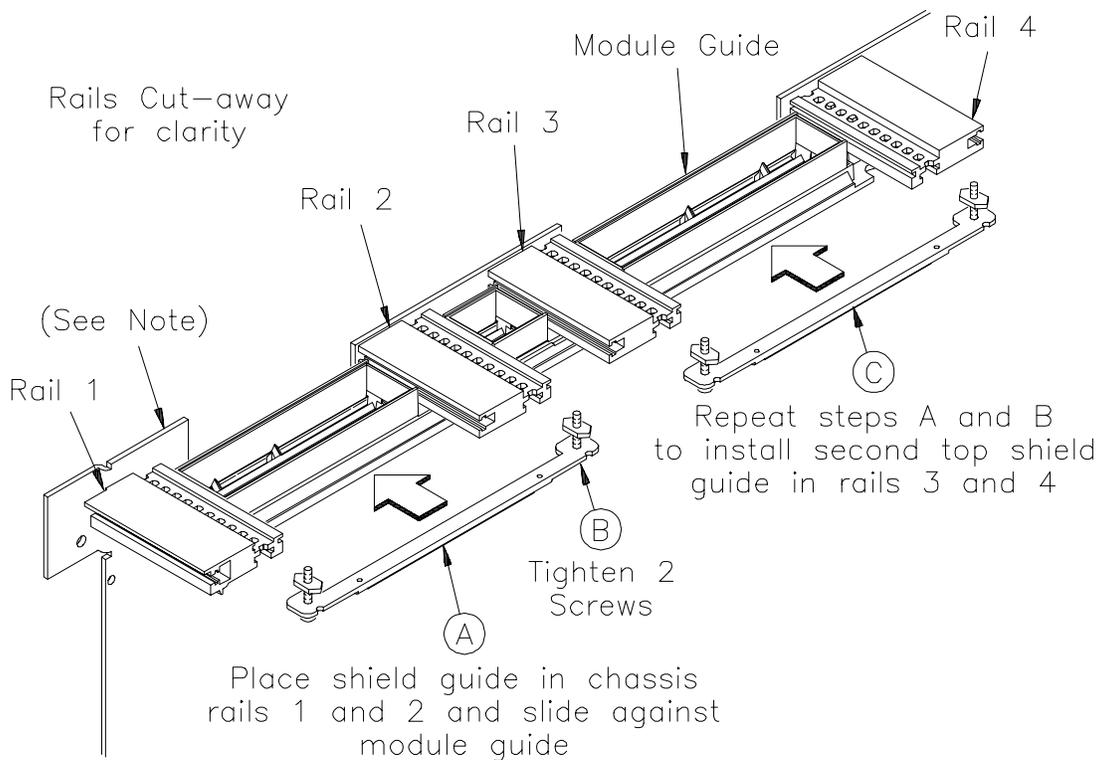
### Step 6. Remove the Upper Module Guide



### Step 7. Prepare Two (2) Upper Shield Guides



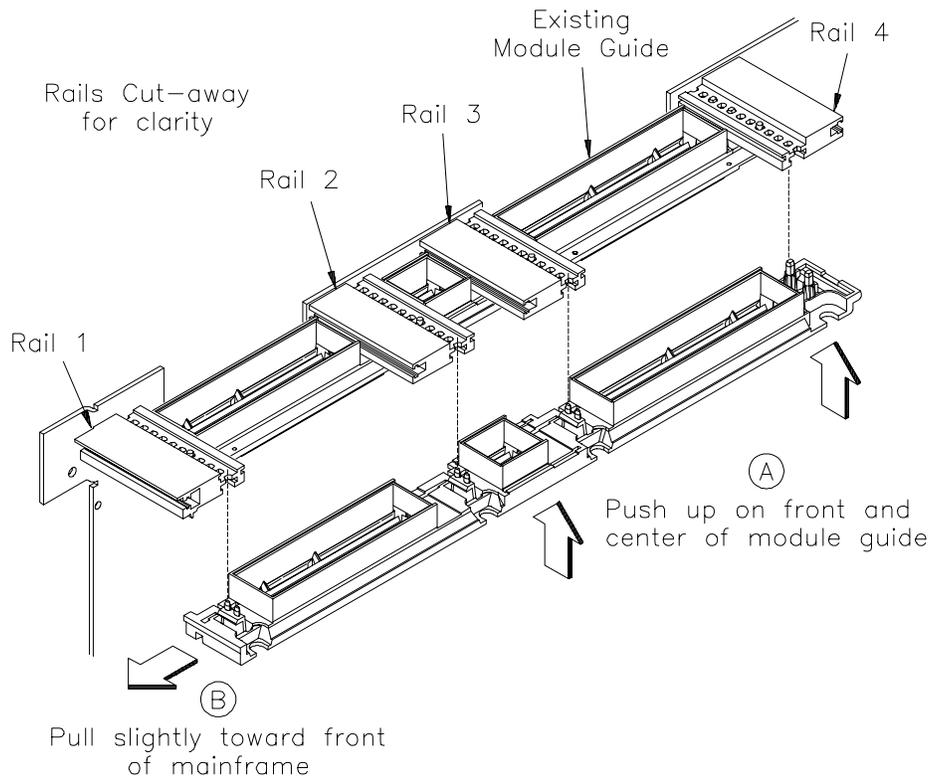
### Step 8. Install Two (2) Upper Shield Guides



**NOTE:**

For easier installation, place mainframe on its left side.

### Step 9. Reinstall the Upper Module Guide



### Step 10. Install the Chassis Shield

