

---

# Installation Guide

Publication number E2492-92003  
October 1998

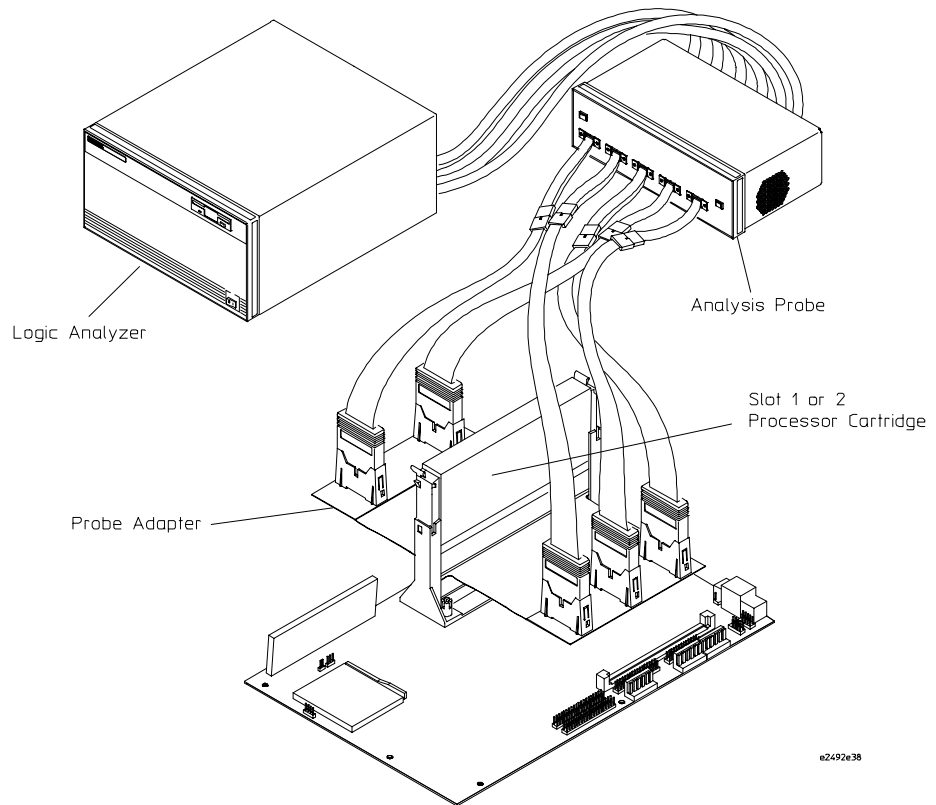
© Copyright Hewlett-Packard Company 1998  
All Rights Reserved

---

## HP E2492B/C Probe Adapter for Slot 1 & 2 Intel Pentium<sup>®</sup> II Processor

---

## Installation at a Glance



This Installation Guide explains how to install Hewlett-Packard's probe adapter for slot 1 & 2 Intel Pentium II<sup>®</sup> processor cartridges. The probe adapter provides a quick and reliable connection from a slot 1 or 2 processor to the HP E2487A/C Analysis Probe. The analysis probe then connects to your HP logic analyzer for state analysis.

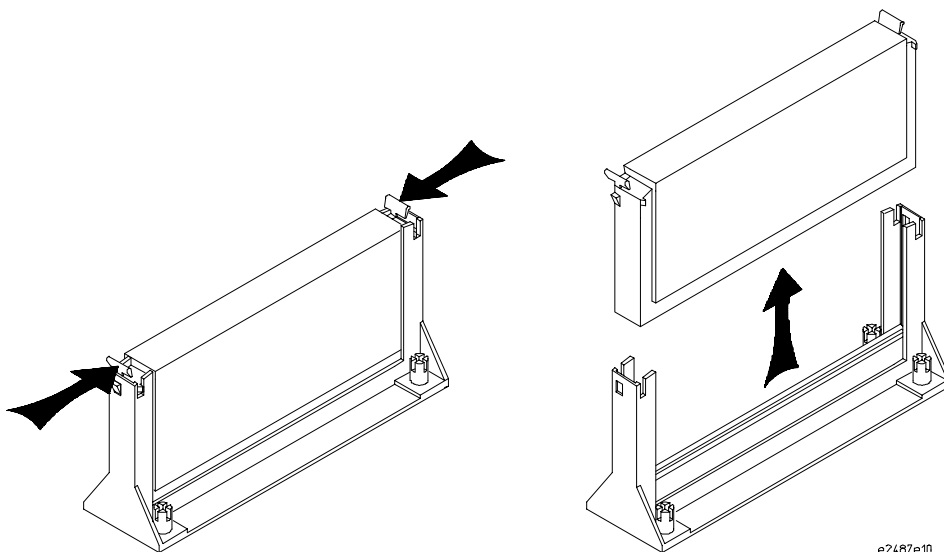
### Installation Overview

- Remove the processor cartridge.
- Install the probe adapter.
- Connect the processor cartridge to the probe adapter.
- Connect the probe adapter to the HP E2487A/C analysis probe.

---

## Step 1. Remove the processor cartridge

Remove the processor cartridge from the target system by pushing in the two tabs on top of the cartridge, then pulling the cartridge up as shown below.



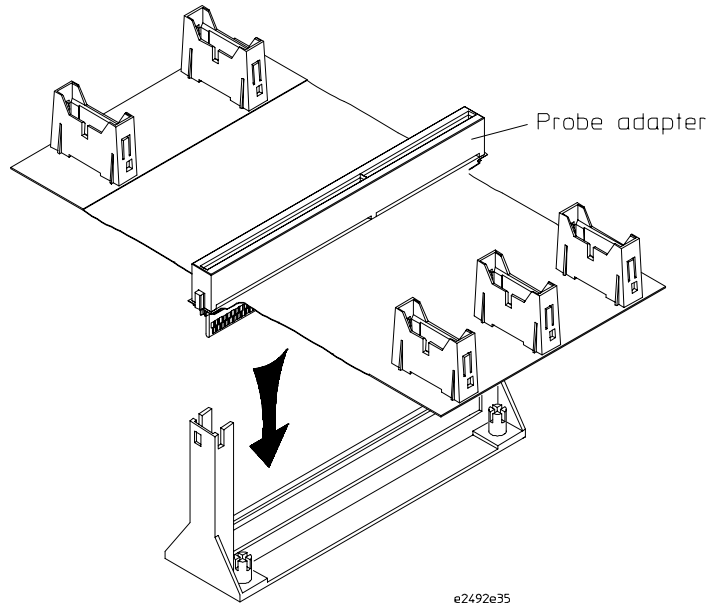
e2487e10

## Step 2. Install the probe adapter

---

### Step 2. Install the probe adapter

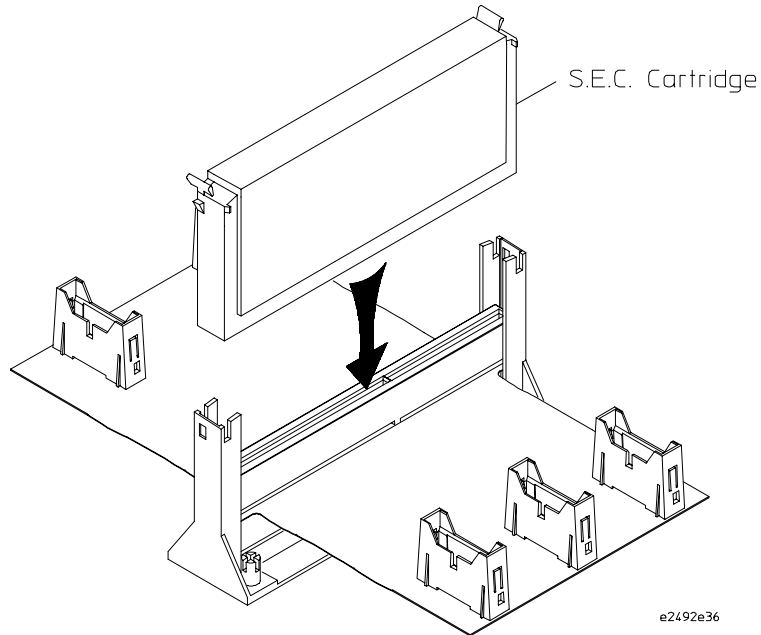
Slide the probe adapter into the processor slot as shown until the connector is fully seated.



---

### Step 3. Connect the processor cartridge to the probe adapter

Slide the processor cartridge into the slot 1 processor slot as shown until the connector is fully seated in the probe adapter.



---

#### CAUTION

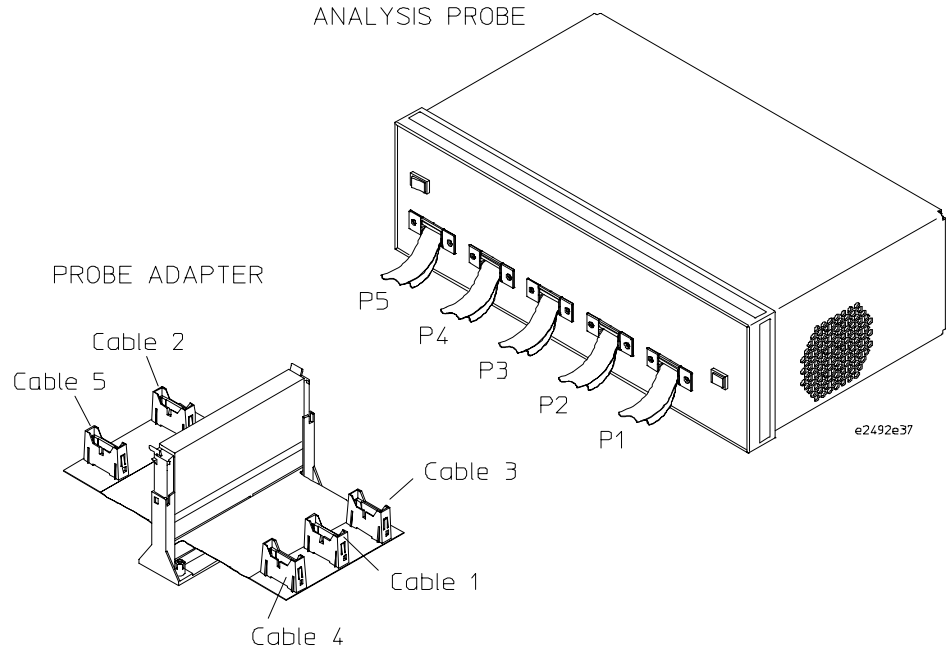
Bending the flexible cable beyond the minimum bend radius will shorten the life of the probe adapter. See the illustrations at the end of this document.

**Step 4. Connect the probe adapter to the  
HP E2487A/C Analysis Probe**

---

**Step 4. Connect the probe adapter to the  
HP E2487A/C Analysis Probe**

The probe adapter has five high-density connectors, labeled Cable 1 through Cable 5. The HP E2487A/C Analysis Probe also has five high-density cabled connectors, labeled P1 through P5. Connect the probe adapter cables to the correspondingly-numbered analysis probe cables.



---

## Operating characteristics

The following operating characteristics are not specifications, but are typical operating characteristics for the probe adapter.

---

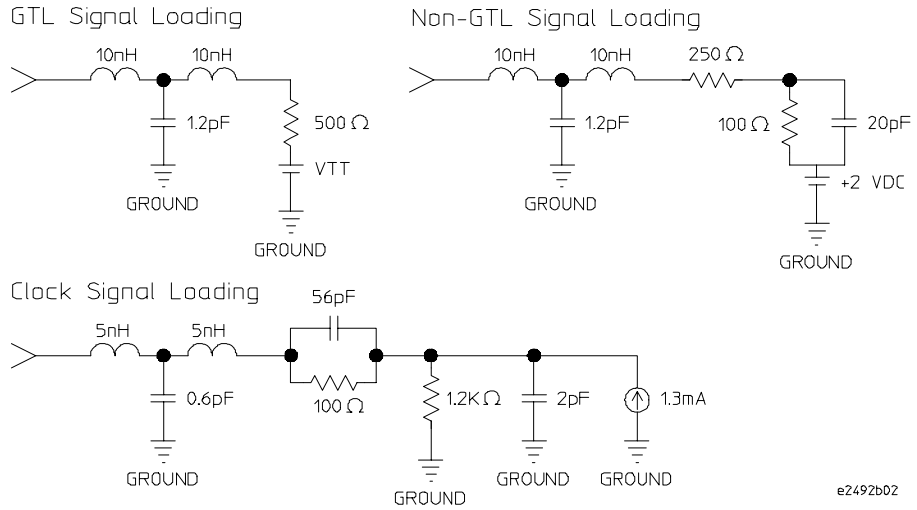
### Operating characteristics

<b>Microprocessor Compatibility</b>	Intel IA-32-microprocessors compatible with slot 1 or 2 socket
<b>Power Requirements</b>	The probe adapter draws a maximum 100 mA @ 5V, which is supplied by the logic analyzer. CAT I, Pollution degree 2.
<b>Environment</b>	The probe adapter is intended for indoor use only.
<b>Environmental Temperature</b>	Operating +5 to +40 degrees C Non operating -40 to +70 degrees C
<b>Altitude</b>	Operating 3,100 m (10,000 ft.) Non operating 4,600 m (15,000 ft.)
<b>Humidity</b>	Up to 80% non condensing. Avoid sudden, extreme temperature changes which could cause condensation within the instrument.
<b>Bus Timing</b>	The HP E2492B/C and the HP E2487A support systems meeting the typical bus timing specifications of Pentium II processor systems with bus speeds ranging from 66 MHz to 100 MHz.  The HP E2492B/C and the HP E2487C support systems meeting worst case bus timing specifications of Pentium II processor systems with bus speeds ranging from 133 MHz to 100 MHz.

## Cleaning

### Signal Line Loading

The following schematics show the signal line loading for GTL, non GTL, and Clock.



---

## Cleaning

Remove any dust or debris from the probe adapter with precision dusting cleaner (otherwise known as inert dusting gas or compressed air).

---

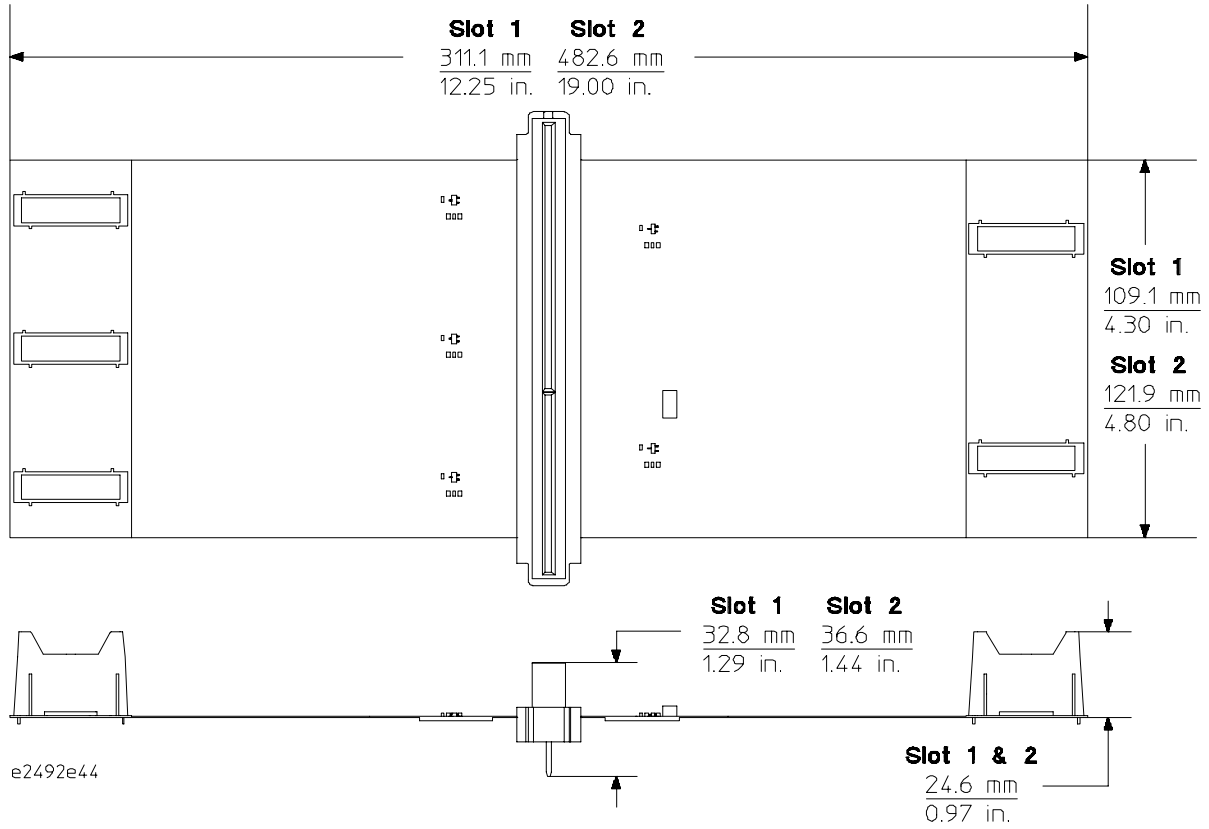
## Replaceable parts

The repair strategy for this probe adapter is product replacement. Contact your nearest Hewlett-Packard Sales Office.



## Probe adapter dimensions and minimum bend radius

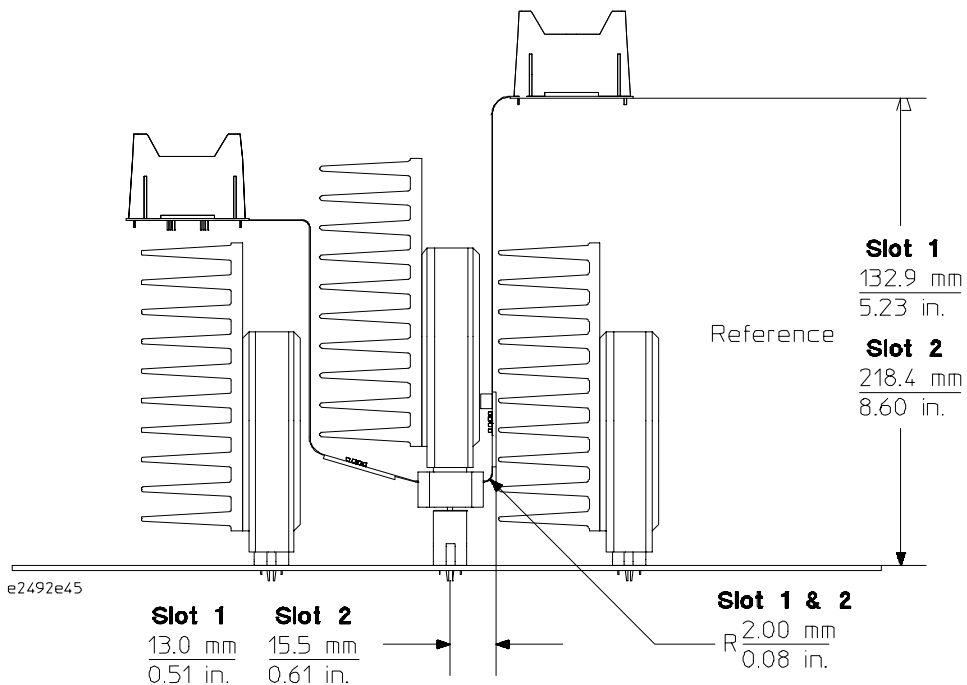
The figure below gives the dimensions for slot 1 & 2 probe adapters. The dimensions are listed in millimeters and inches.



**CAUTION**

Bending the flexible cable beyond the minimum bend radius will shorten the life of the probe adapter

The figure below gives the minimum bend radius when using the slot 1 and slot 2 probe adapters. Multiple processors are shown to illustrate the need to bend the flexible cable. The dimensions are listed in millimeters and inches.



© Copyright Hewlett-Packard Company 1998  
All Rights Reserved.

Reproduction, adaptation, or translation without prior written permission is prohibited, except as allowed under the copyright laws.

#### **Restricted Rights Legend**

Use, duplication, or disclosure by the U.S. Government is subject to restrictions set forth in subparagraph (C) (1) (ii) of the Rights in Technical Data and Computer Software Clause in DFARS 252.227-7013. Hewlett-Packard Company, 3000 Hanover Street, Palo Alto, CA 94304 U.S.A. Rights for non-DOD U.S. Government Departments and Agencies are set forth in FAR 52.227-19(c)(1,2).

#### **Document Warranty**

The information contained in this document is subject to change without notice.

**Hewlett-Packard makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose.**

Hewlett-Packard shall not be liable for errors contained herein or for damages in connection with the furnishing, performance, or use of this material.

#### **Safety**

This apparatus has been designed and tested in accordance with IEC Publication 348, Safety Requirements for Measuring Apparatus, and has been supplied in a safe condition. This is a Safety Class I instrument (provided with terminal for protective earthing). Before applying power, verify that the correct safety precautions are taken (see the following warnings). In addition, note the external markings on the instrument that are described under "Safety Symbols."

#### **Warning**

- Service instructions are for trained service personnel. To avoid dangerous electric shock, do not perform any service unless qualified to do so. Do not attempt internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.
- Whenever it is likely that the ground protection is impaired, you must make the instrument inoperative and secure it against any unintended operation.
- Do not operate the instrument in the presence of flammable gasses or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.
- Do not install substitute parts or perform any unauthorized modification to the instrument.

#### **Safety Symbols**



Instruction manual symbol: the product is marked with this symbol when it is necessary for you to refer to the instruction manual in order to protect against damage to the product.



Hazardous voltage symbol.



Earth terminal symbol: Used to indicate a circuit common connected to grounded chassis.

#### **WARNING**

The Warning sign denotes a hazard. It calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in personal injury. Do not proceed beyond a Warning sign until the indicated conditions are fully understood and met.

#### **CAUTION**

The Caution sign denotes a hazard. It calls attention to an operating procedure, practice, or the like, which, if not correctly performed or adhered to, could result in damage to or destruction of part or all of the product. Do not proceed beyond a Caution symbol until the indicated conditions are fully understood or met.

### Product Warranty

This Hewlett-Packard system product is warranted against defects in material and workmanship for a period of one year from date of purchase. During the warranty period, Hewlett-Packard Company will, at its option, either repair or replace products that prove to be defective. Products must be returned to a service facility designated by HP.

For products returned to Hewlett-Packard for warranty service, the Buyer shall prepay shipping charges to Hewlett-Packard and Hewlett-Packard shall pay shipping charges to return the product to the Buyer. However, the Buyer shall pay all shipping charges, duties, and taxes for products returned to Hewlett-Packard from another country.

Hewlett-Packard warrants that its software and firmware designated by Hewlett-Packard for use with an instrument will execute its programming instructions when properly installed on that instrument. Hewlett-Packard does not warrant that the operation of the instrument software, or firmware will be uninterrupted or error free.

### Limitation of Warranty

The foregoing warranty shall not apply to defects resulting from improper or inadequate maintenance by the Buyer, Buyer-supplied software or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper

site preparation or maintenance.

**No other warranty is expressed or implied. Hewlett-Packard specifically disclaims the implied warranties of merchantability or fitness for a particular purpose.**

### Exclusive Remedies

The remedies provided herein are the buyer's sole and exclusive remedies. Hewlett-Packard shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory.

### Assistance

Product maintenance agreements and other customer assistance agreements are available for Hewlett-Packard products. For any assistance, contact your nearest Hewlett-Packard Sales Office.

### Certification

Hewlett-Packard Company certifies that this product met its published specifications at the time of shipment from the factory. Hewlett-Packard further certifies that its calibration measurements are traceable to the United States National Institute of Standards and Technology, to the extent allowed by the Institute's calibration facility, and to the calibration facilities of other International Standards Organization members.

### About this edition

This is the first edition of the *HP E2492B/C Probe Adapter for Slot 1 & 2 Intel Pentium® II Processor Installation Guide*.

Publication number  
E2492-92003, October 1998  
Printed in USA.

Edition dates are as follows:  
E2492-92002, August 1998

New editions are complete revisions of the manual. Many product updates do not require manual changes and manual corrections may be done without accompanying product changes. Therefore, do not expect a one-to-one correspondence between product updates and manual updates.

Pentium® is a U.S. registered trademark of Intel Corporation.



HP Part Number E2492-92003  
Printed October 1998