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## HP References in this Manual

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# Installation Guide

Publication number E2492-92003  
October 1998

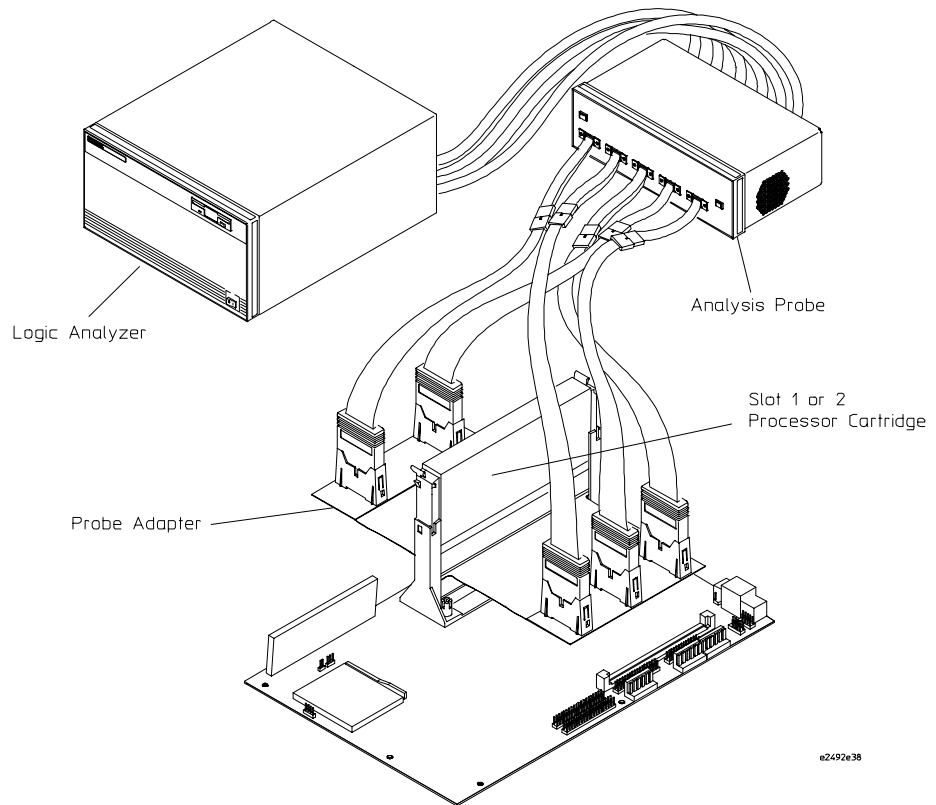
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## HP E2492B/C Probe Adapter for Slot 1 & 2 Intel Pentium<sup>®</sup> II Processor

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## 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.

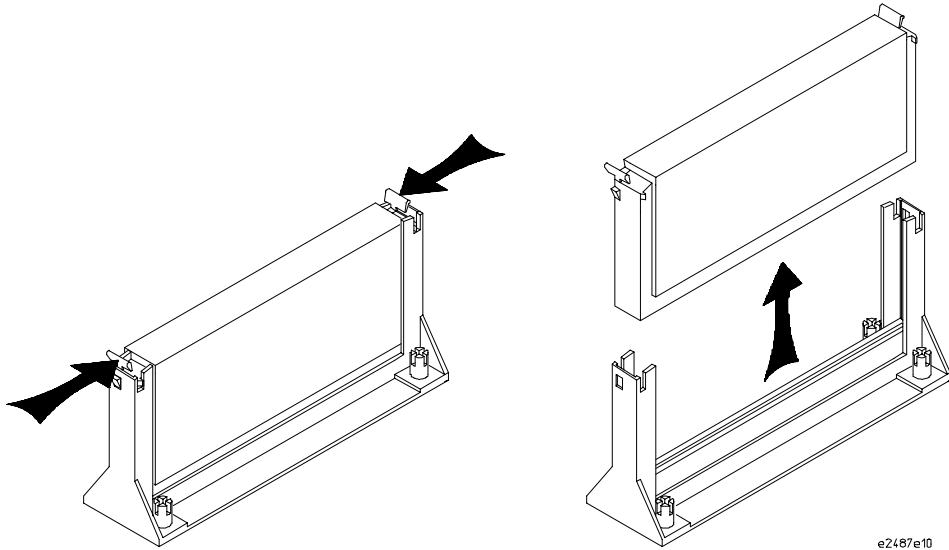
### Installation Overview

- 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.

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## 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.



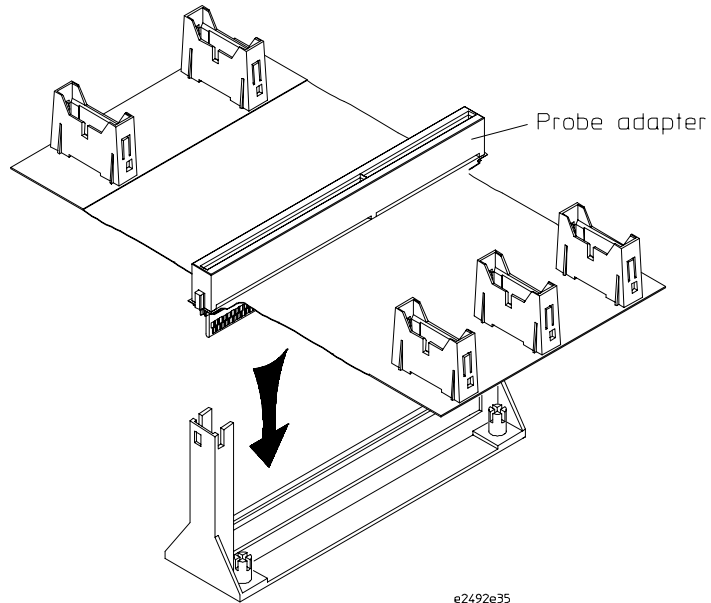
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## Step 2. Install the probe adapter

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### Step 2. Install the probe adapter

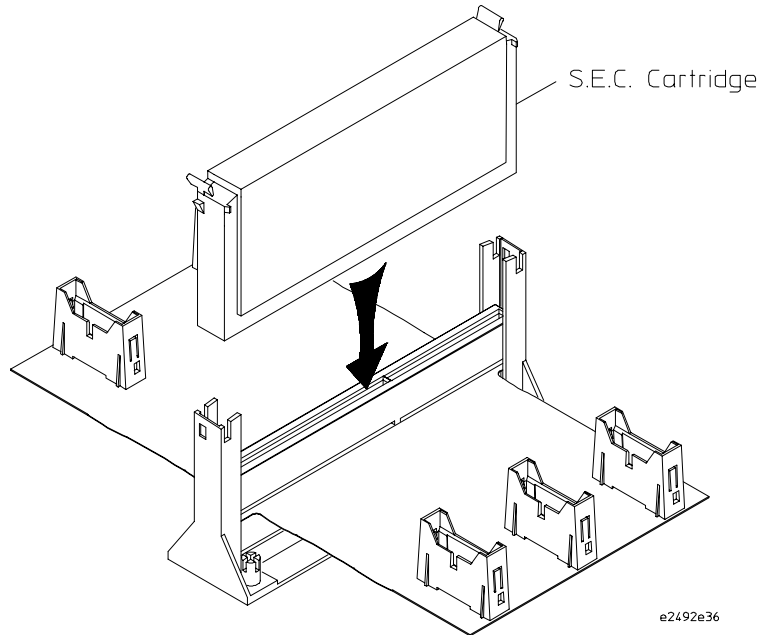
Slide the probe adapter into the processor slot as shown until the connector is fully seated.



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### 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.



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#### CAUTION

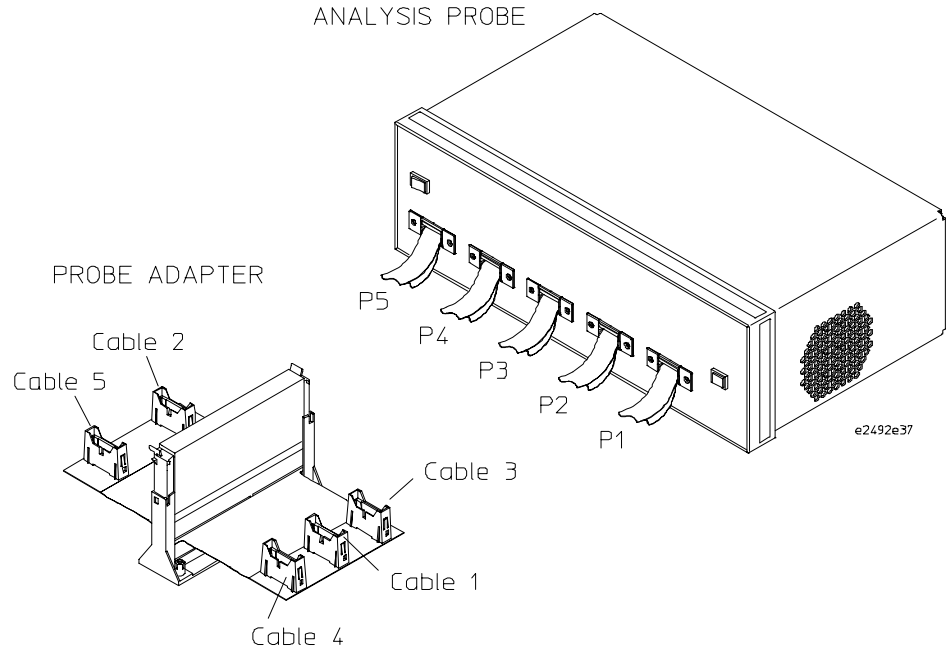
Bending the flexible cable beyond the minimum bend radius will shorten the life of the probe adapter. See the illustrations at the end of this document.

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

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**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.



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## Operating characteristics

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

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### Operating characteristics

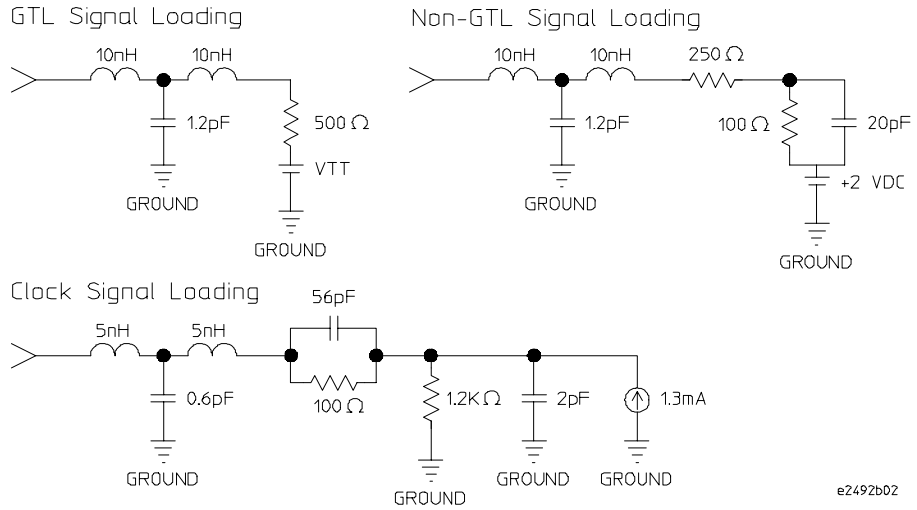
<b>Microprocessor Compatibility</b>	Intel IA-32-microprocessors compatible with slot 1 or 2 socket
<b>Power Requirements</b>	The probe adapter draws a maximum 100 mA @ 5V, which is supplied by the logic analyzer. CAT I, Pollution degree 2.
<b>Environment</b>	The probe adapter is intended for indoor use 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.



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## Cleaning

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

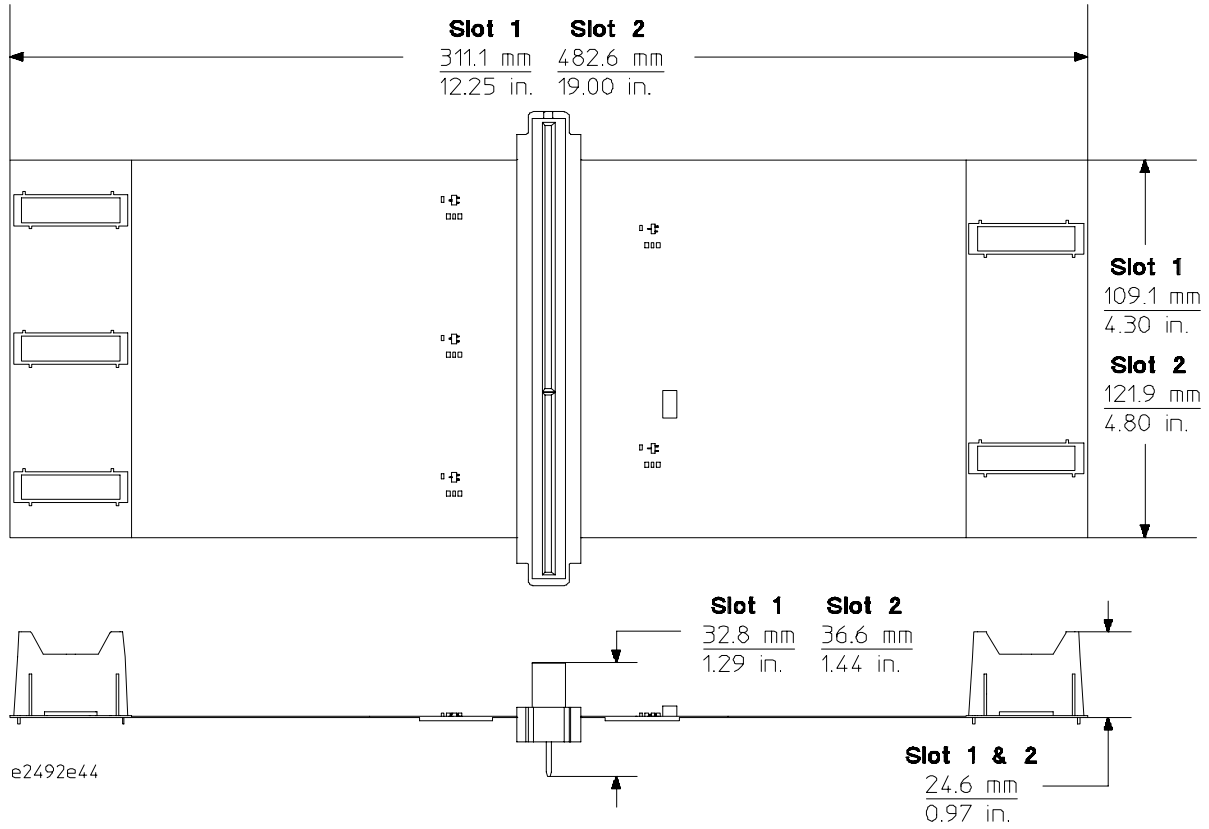
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## Replaceable parts

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

## Probe adapter dimensions and minimum bend radius

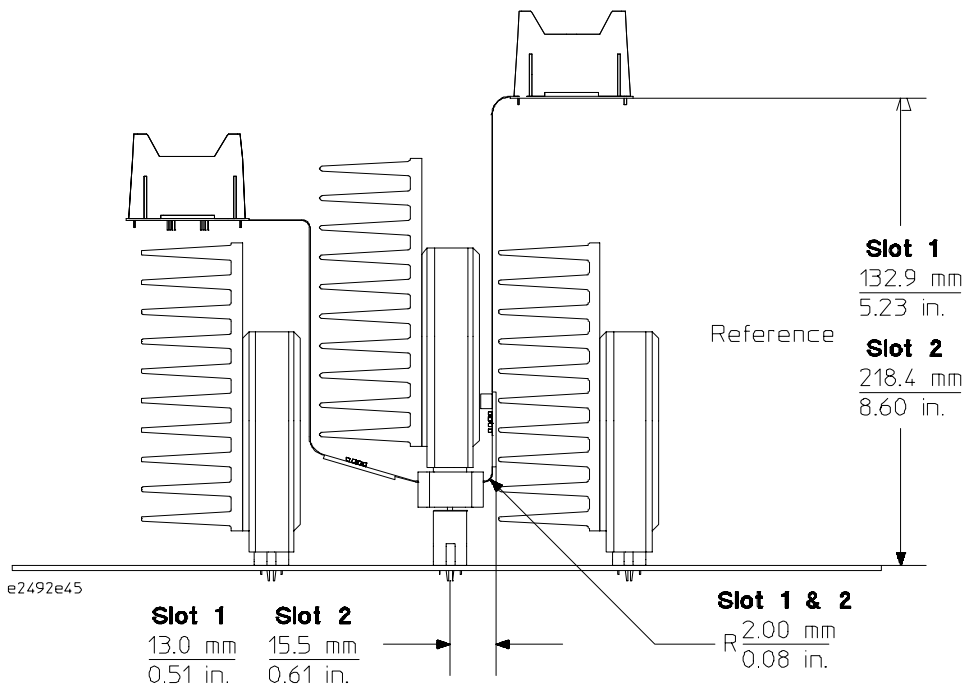
The figure below gives the dimensions for slot 1 & 2 probe adapters. The dimensions are listed in millimeters and inches.



**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.



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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.

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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.

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### **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*.

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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.

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