

## CUSTOMER NOTICE

The ID Module is a user identification device which restricts access to specific programs, data bases, computer systems and networks.

If the ID Module is defective, you must return it in order to obtain an exchange ID Module at reduced cost (or no cost if applicable). This rule applies whether or not the ID Module is still covered under warranty.

IF YOU DON'T RETURN THE ID MODULE OR IF YOU LOSE OR MISPLACE IT, YOU MAY BE REQUIRED TO ACQUIRE NEW LICENCES IN ALL ASSOCIATED SOFTWARE, IN ADDITION TO A NEW ID MODULE.

BEFORE CONTINUING, please record the model number (or exchange part number) and the serial number of your ID Module and keep this paper in a safe place in case you need to refer to it in the future.

Model Number (or Exchange Part Number) 46084A

Serial Number 3327A17417

PLEASE take special care to safekeep the ID Module. HP wishes to avoid any disappointment for a customer as valuable as you.

Contact your local Dealer or Hewlett-Packard Sales and Service Office for further details.

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**HP Part Number**

**46084-90600**

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**HEWLETT  
PACKARD**

# **HP 46084A and 46084-69901 ID Module**

## **Installation**

This Installation Note contains the information necessary to install the ID Module.

The ID Module is furnished in two forms: New (product number HP 46084A) and Exchange (part number 46084-69901).

The ID Module connects to your computer through the Hewlett-Packard Human Interface Link (HP-HIL) and, upon interrogation, returns an identification number which is composed of the serial number of the unit plus the product or part number. This identification number is used by application programs to identify the user and control access to program functions, data bases and networks.

The HP-HIL link is capable of handling seven addresses. The ID Module occupies one address.

The ID Module draws 0.72W (60ma at +12V). If you have other devices attached to the HP-HIL link, make sure that the total current draw is less than the amount supplied by the host computer. The Installation Guide or Service Manual for your computer contains this information.

## **Contents**

The ID Module consists of these items:

- the box containing the ID number
- a 500mm (20-inch) HP-HIL cable (part number 46083-61601)

## Connecting the Module

Before connecting or disconnecting the Module with the power on, have a thorough understanding of the interaction between the Module and your operating system or application program. Refer to the appropriate language or application manual for information about Module connectivity with the power turned on. Some computer systems will recognize an HP-HIL link configuration change, although others will either not recognize the change or return erroneous data. Disconnection or reconnection should be tried only when the system is in a stable state (that is, when no calculations or data transfers are taking place).

The Module may be installed anywhere in the HP-HIL link. Select a spot which is convenient and close to an existing HP-HIL device.

More than one ID Module may be installed on a link at a time. However, in some systems only one ID Module will be acknowledged by the operating system (the one farthest from the computer). See your application or language manual for details.

**The ends of the HP-HIL cables are not interchangeable.** To differentiate the ends, one end is marked with one dot and the other with two dots. Sockets on the hardware are marked with the appropriate number of dots.

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### CAUTION

FAILURE TO CONNECT THE MODULE  
PROPERLY MAY RESULT IN DAMAGE TO  
THE MODULE, THE COMPUTER OR BOTH.

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To connect the Module to an HP-HIL device, follow these instructions:

1. Plug the one-dot end of the furnished cable into the one-dot socket (white) on the ID Module.

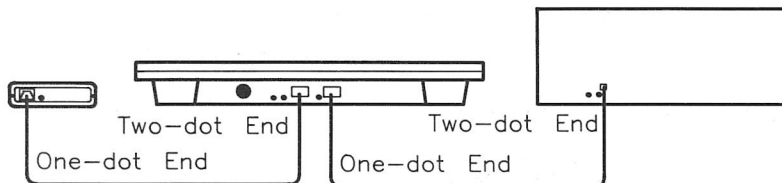
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**CAUTION**

**FORCING THE PLUG INTO THE SOCKET  
WILL DAMAGE THE SOCKET.**

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2. Plug the two-dot end of the furnished cable into the two-dot socket (black) on any existing module.



**Connecting the ID Module**

The ID Module is now ready for use.

For application instructions, consult the reference manual for your program which discusses the ID Module.

For programming instructions, consult the language reference for your operating system. For these operating systems, consult the Hewlett-Packard manual listed:

Series 200 BASIC	Software Security section of the Entering, Running and Storing chapter of <i>BASIC Programming Techniques</i>
Series 200 HP-UX	Appendix C of <i>HP-UX User's Guide</i> , part number 97089-90010

## **Safeguarding the Module**

When using the ID Module, bear in mind that it allows you access to restricted program functions, data bases and networks. If you lose the module, you will not be able to access any of these until you purchase a new module and codewords for the software. If this should happen, contact your Dealer or Hewlett-Packard Sales and Service Office.

## **In Case of Trouble**

If you encounter problems with the operation of the Module, first check to see if it is installed properly. If it is, run one of the following checks.

### **Identification Check**

Most application programs will display the identification number on the monitor at boot-up of the program. Refer to the programming manual for your application.

To check the identification number, find the model or exchange part number and the serial number printed on the Module. Then load your program and compare them with the number displayed on the monitor.

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#### **NOTE**

Some programs will display more than one identification number.

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## Self-test Check

If your program does not display the identification number or you have previously used the Module in your own program, check the Module's internal self-test. On power-up, the Module executes a self-test. If it fails its self-test, it will block commands and data passing through it between the computer and any other HP-HIL device. Follow this procedure to check the self-test:

1. Disconnect the ID Module from the HP-HIL link.
2. Ensure that the keyboard (or other HP-HIL device) is operating properly.
3. Disconnect the keyboard from the computer.
4. Connect the ID Module to the computer.
5. Connect the keyboard to the ID Module.
6. Determine whether the keyboard operates properly.

If the keyboard operates properly, the ID Module has passed its internal self-test and the problem lies elsewhere. If the keyboard no longer operates properly, the ID Module is defective. Contact your Dealer or Hewlett-Packard Sales and Service Office for a replacement.



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