

HP 9000 Series 200 Computer Systems

**HP 98624A**  
**HP-IB Interface Card**

**Installation Note**



---

HEWLETT-PACKARD COMPANY  
Roseville Networks Division  
8000 Foothills Boulevard  
Roseville, California 95678

Manual Part No. 98624-90000  
E0685  
Printed in U.S.A.  
June 1985

# Printing History

Printing History below identifies the Edition of this Manual and any Updates that are included. Periodically, update packages are distributed which contain replacement pages to be merged into the manual, including an updated copy of this Printing History page. Also, the update may contain write-in instructions.

Each reprinting of this manual will incorporate all past updates; however, no new information will be added. Thus, the reprinted copy will be identical in content to prior printings of the same edition with the user-inserted update information. New editions of this manual will contain new information, as well as updates.

98624-90000

|                          |           |
|--------------------------|-----------|
| First Edition . . . . .  | June 1981 |
| Second Edition . . . . . | June 1985 |

---

## NOTICE

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 AND FITNESS FOR A PARTICULAR PURPOSE. Hewlett-Packard shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

This document contains proprietary information which is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced or translated to another language without the prior written consent of Hewlett-Packard Company.

---

Copyright (c) 1981, 1985 by HEWLETT-PACKARD COMPANY

# HP 98624A

## HP-IB Interface Card

### Installation

The HP 98624A is an HP-IB Interface Card for HP 9000 Series 200 Computers. (HP-IB is Hewlett-Packard's implementation of IEEE 488-1978.) This note describes the procedure for installing the 98624A.

### Installing Interface Cards in the Series 200 Backplane

The backplane of a Series 200 computer can contain from 2 to 16 card slots (depending on the model of computer). These card slots come in pairs; each cover plate on the back of the computer covers one such pair of slots. The lower slot of each pair can accept any Series 200 card (interface, memory, or DMA); the upper slot can accept only memory and DMA cards. Thus interface cards must be inserted into the lower slot of a pair.

To install an interface card in the Series 200 backplane, follow these instructions:

1. Set the switches on the card according to the instructions in the section on Configuring the Interface Card.
2. Turn the computer off.
3. Interface cards must go into any of the slots just below a pair of cover bolt holes. Remove the metal backplane covers one by one until you find an empty slot just below a pair of cover bolt holes.
4. The metal plate on the interface card takes the place of a backplane cover. A memory or DMA board may be installed in the slot above the interface card.
5. Slide the interface card into the slot, component side up, until it bottoms against the backplane connector board. Then tighten the thumbscrews until they are finger tight.
6. If there are no empty slots just below a cover bolt hole pair, you must rearrange the memory boards to accommodate the interface card. Remove any memory board in a slot below a bolt hole pair and re-install it in an empty slot above a bolt hole pair. It is not necessary to change the address of the memory board, as the computer CPU automatically finds the board at its new location.
7. If there are no empty slots, a memory board or interface card must be removed and left out if the new interface card is to be installed. If a RAM memory board is left out, make sure it has the lowest address.
8. Connect the computer to the desired peripheral using an appropriate cable.
9. Turn the computer and the peripheral on and operate according to the instructions in the appropriate operating manual. If problems are encountered, call the nearest HP Sales and Service Office.

## Configuring the Interface Card

Figure 1 shows the location of all the configuring switches on the 98624A, in the default (factory set) configuration. In this configuration, the interface card "wakes up" as follows:

1. Not System Controller
2. Interrupt Level 3
3. Select Code 8
4. Primary Address 0

If the default configuration is acceptable, check to make sure that all the switches are set according to the diagram. If you wish to reconfigure the interface, refer to the accompanying drawing and the HP-IB section of your I/O Programming Manual.

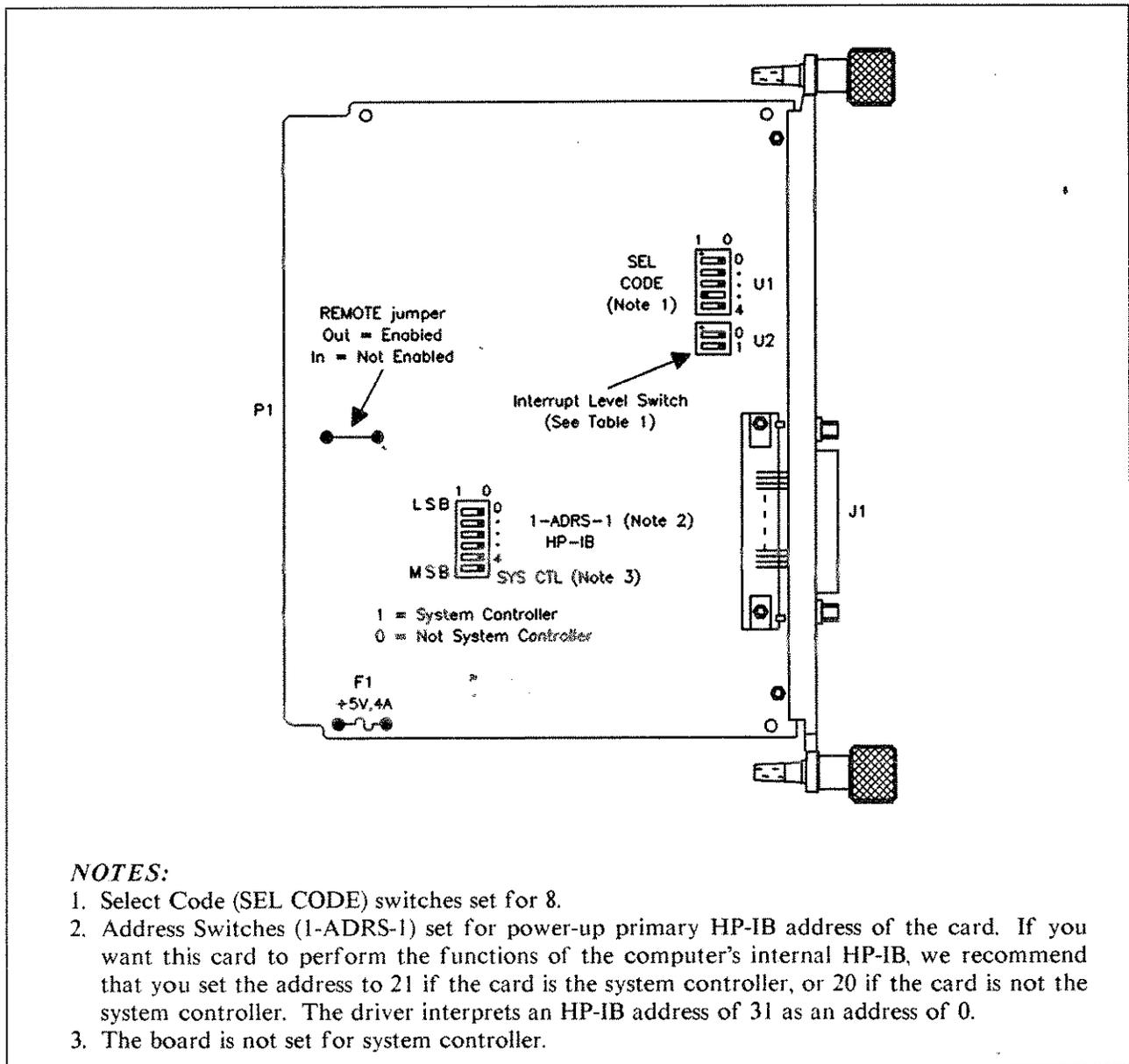
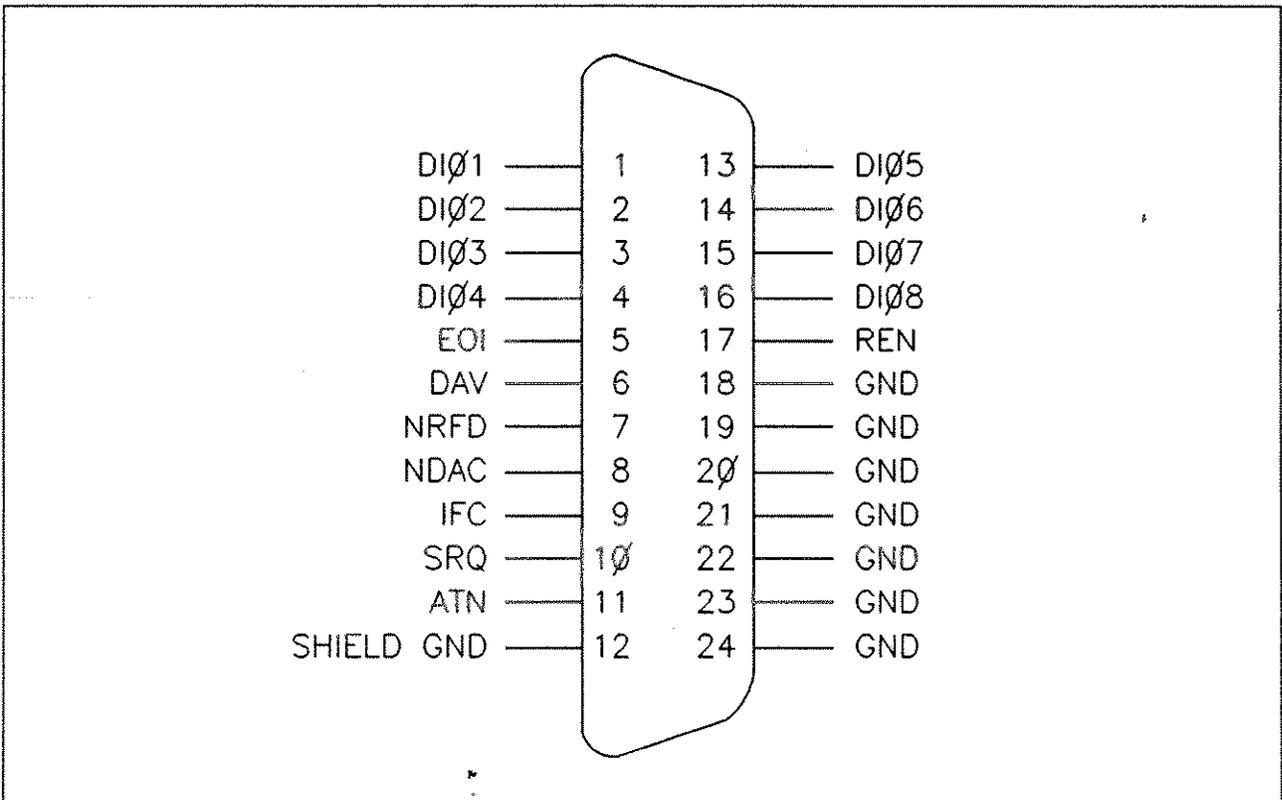


Figure 1. Configuration Switch Diagram

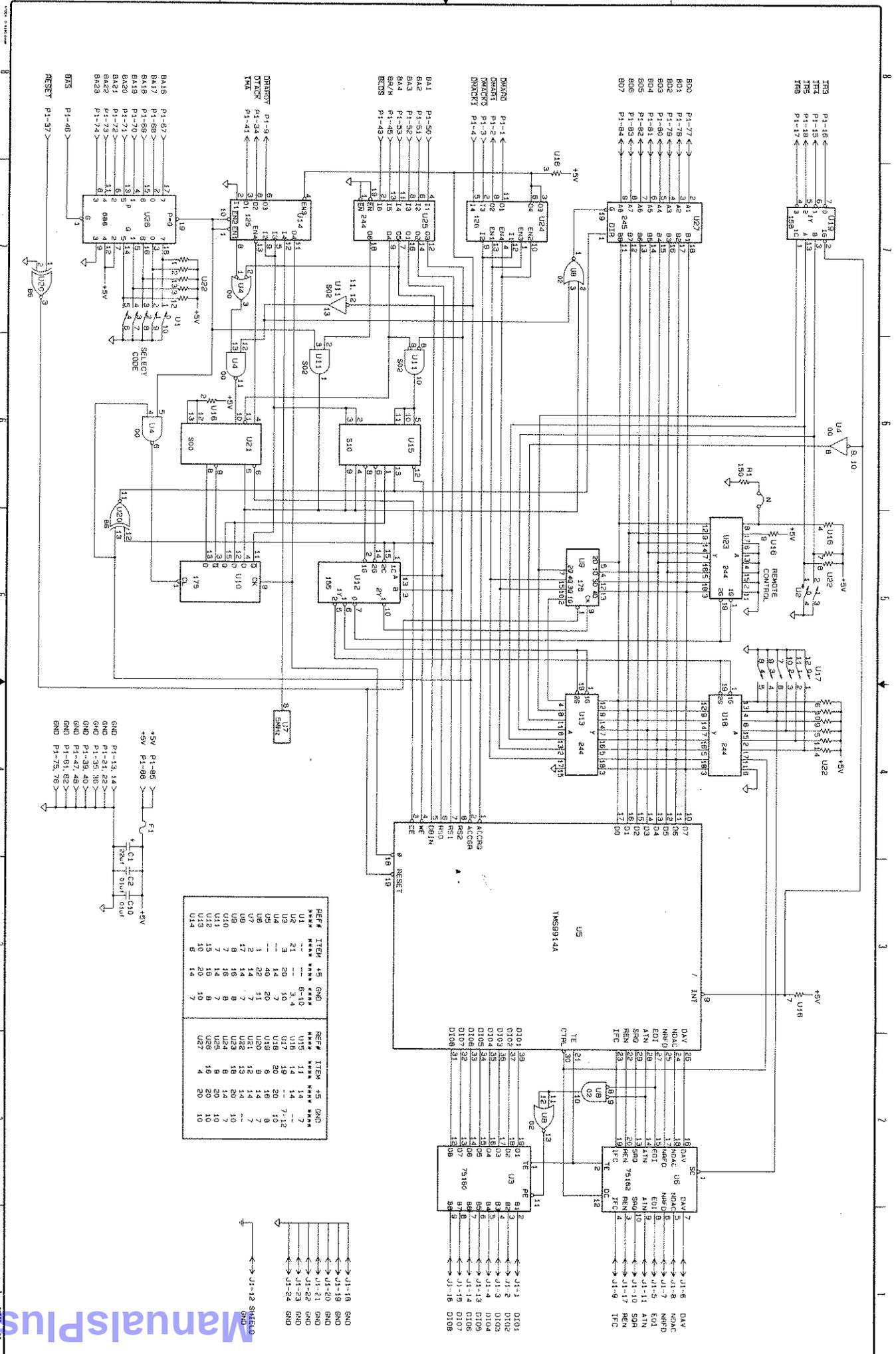
*Table 1. Interrupt Level Switch*

| Interrupt Level | Switch Settings |   |
|-----------------|-----------------|---|
|                 | 1               | 0 |
| 3               | 0               | 0 |
| 4               | 0               | 1 |
| 5               | 1               | 0 |
| 6               | 1               | 1 |



*Figure 2. HP 98624A (HP-IB) Connector Diagram*





| REF# | ITEM# | QTY | UNIT | REF# | ITEM# | QTY | UNIT |
|------|-------|-----|------|------|-------|-----|------|
| U1   | 1     | 1   | U1   | U1   | 1     | U1  |      |
| U2   | 2     | 1   | U2   | U2   | 2     | U2  |      |
| U3   | 3     | 1   | U3   | U3   | 3     | U3  |      |
| U4   | 4     | 1   | U4   | U4   | 4     | U4  |      |
| U5   | 5     | 1   | U5   | U5   | 5     | U5  |      |
| U6   | 6     | 1   | U6   | U6   | 6     | U6  |      |
| U7   | 7     | 1   | U7   | U7   | 7     | U7  |      |
| U8   | 8     | 1   | U8   | U8   | 8     | U8  |      |
| U9   | 9     | 1   | U9   | U9   | 9     | U9  |      |
| U10  | 10    | 1   | U10  | U10  | 10    | U10 |      |
| U11  | 11    | 1   | U11  | U11  | 11    | U11 |      |
| U12  | 12    | 1   | U12  | U12  | 12    | U12 |      |
| U13  | 13    | 1   | U13  | U13  | 13    | U13 |      |
| U14  | 14    | 1   | U14  | U14  | 14    | U14 |      |
| U15  | 15    | 1   | U15  | U15  | 15    | U15 |      |
| U16  | 16    | 1   | U16  | U16  | 16    | U16 |      |
| U17  | 17    | 1   | U17  | U17  | 17    | U17 |      |

Figure 3. HP 98624A Schematic Diagram

