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## Connecting HP-IB Printers

The HP 16500C interfaces directly with HP PCL printers supporting the printer command language or with Epson printers supporting the Epson standard command set. These printers must also support HP-IB and Listen Always modes. Printers currently available from Hewlett-Packard with these features include:

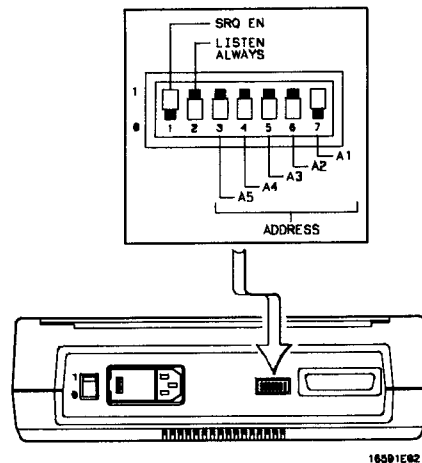
- HP ThinkJet.
- HP QuietJet.
- HP LaserJet.
- HP PaintJet.
- HP DeskJet.
- HP DeskJetC.

The printer must be in Listen Always mode when HP-IB is the printer interface. In addition, the HP 16500C HP-IB port does not respond to service requests (SRQ) when controlling a printer. The SRQ enable setting for the HP-IB printer has no effect on HP 16500C printer operation.

### HP-IB Printer Setup

- 1 Turn off the HP 16500C and the printer, and connect an HP-IB cable from the printer to the HP-IB connector on the rear panel of the 16500C.**
- 2 Make sure the printer is in the Listen Always (or Listen Only) mode.**

For example, the figure at the top of the next page shows the configuration switches for an HP-IB ThinkJet printer. For the **Listen Always** mode, move the second switch from the left to the "1" position. Because the HP 16500C doesn't respond to SRQ EN (Service Request Enable), the position of the first switch doesn't matter.



### Configuration Switches for the HP ThinkJet Printer

- 3 Turn on the HP 16500C and the printer.
- 4 From the System Configuration menu, configure the HP 16500's printer settings.
  - a If the printer is not already set to HP-IB, select the field under "Connected To:" in the Printer box and choose **HP-IB** from the menu.
  - b Select the **Settings** field to the right of "Printer".
  - c When the pop-up appears, select the printer that you're using (such as ThinkJet or QuietJet). If you're using an Epson graphics printer or an Epson-compatible printer, select **Alternate**.
  - d Select the field to the right of "Print Width" and depending on your application, toggle the width to either **80** or **132**.

Print width tells the printer that you are sending up to 80 or 132 characters per line (when you Print All) and is totally independent of the printer itself.

- If you select 132 characters per line when using other than the QuietJet selection, the listings are printed in a compressed mode. Compressed mode uses smaller characters to allow the printer to print more characters within a given area.
- If you select 132 characters per line for the QuietJet selection it can print a full 132 characters per line without going to compressed mode, but the printer must have wider paper.

- If you select 80 characters per line for any printer, a maximum of 80 characters are printed per line.
- e Select the field to the right of **Page Length**. Depending on your application, toggle it to either **11** or **12**.  
Page length tells the printer the page length for the type of paper you are using.
- f Select **Done** when you are finished.

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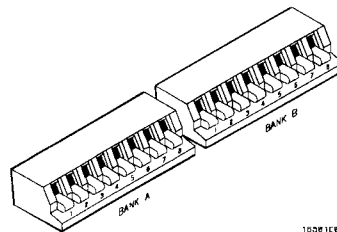
## Connecting RS-232-C Printers

The HP 16500C interfaces directly with RS-232-C printers, including the HP ThinkJet, HP QuietJet, HP LaserJet, HP PaintJet, HP DeskJet and HP DeskJetC printers.

- 1 Turn off the HP 16500C and the printer, and connect an RS-232-C cable (HP 24542G) from the printer to the RS-232-C connector on the rear panel of the Logic Analysis System mainframe.

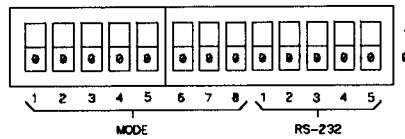
If you use an HP 24542G RS-232 cable, the default settings will work. We cannot guarantee other cables.

- 2 Before turning on the printer, set the mode switches as follows:
  - The HP QuietJet series printers have two banks of mode function switches inside the front cover. Push all the switches down to the "0" position as shown in the figure below.



### Switch Configuration for HP QuietJet Printers

- For the HP LaserJet printer, the switch settings can remain in the factory default settings.
- For the HP 2225D (RS-232 HP ThinkJet) printer, the mode switches are on the rear panel of the printer. Push all the switches down to the "0" position as in the figure at the top of the next page.



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### Switch Configuration for HP ThinkJet Printers

- 3 Turn on the HP 16500C and the printer.
- 4 From the System Configuration menu, configure the HP 16500's printer settings.
  - a If the printer is not already set to RS-232, select the field under "Connected To:" in the Printer box and choose **RS-232** from the menu.
  - b Select the **Settings** field to the right of "Printer".
  - c When the pop-up appears, select the printer that you're using (such as ThinkJet or QuietJet). If you're using an Epson graphics printer or an Epson-compatible printer, select **Alternate**.
  - d Select the field to the right of "Print Width" and depending on your application, toggle the width to either **80** or **132**.

Print width tells the printer that you are sending up to 80 or 132 characters per line (when you Print All) and is totally independent of the printer itself.
  - e Select the field to the right of "Page Length". Depending on your application, toggle it to either **11** or **12**.

Page length tells the printer the page length for the type of paper you are using.
  - f Select **Done** when you finished.
- 5 Select the **RS-232** field in the Settings group and check that the current settings are compatible with your printer.

### See Also

For complete information on these RS-232-C interface parameters see "Configuring the RS-232-C Interface" earlier in this chapter.

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## Connecting Parallel Printers

There are no settings specific to the parallel printer connector.

- 1 Turn off the HP 16500C and the printer, and connect a parallel printer cable from the printer to the parallel printer connector on the rear panel of the Logic Analysis System mainframe.
- 2 Before turning on the printer, configure the printer for parallel operation.

The printer's documentation will tell you what switches or menus need to be configured.

- 3 Turn on the HP 16500C and printer.
- 4 From the System Configuration menu, configure the system's printer settings.
  - a If the printer is not already set to Parallel, select the field under "Connected To:" in the Printer box and choose **Parallel** from the menu.
  - b Select the **Settings** field to the right of "Printer".
  - c In the top field of the pop-up menu, select the type of printer you are using. If you are using an Epson graphics printer or an Epson-compatible printer, select **Alternate**.
  - d If the default print width and page length are not what you want, select the fields to toggle them.

If you select 132 characters per line when using a printer other than QuietJet, the listings are printed in a compressed mode. QuietJet printers can print 132 characters per line without going to compressed mode, but require wider paper.

- e Press Done.

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## Connecting to Other Hewlett-Packard Printers

The HP 16500C can also be used with other Hewlett-Packard graphics printers. Simply connect the printer to the HP 16500C using the appropriate cable (HP-IB or RS-232-C) and configure the HP 16500C as shown in the following table. The HP 16500C cannot print to printers on the local area network.

**Table 3-1**

**HP Printer Selection**

<b>For this HP Printer</b>	<b>Select this Printer from the pop-up menu</b>
HP 2631G	QuietJet
HP 2671G	ThinkJet
HP 2673A	ThinkJet
HP 9876A	ThinkJet
HP 2932/34 (option 046)	QuietJet

HP-IB printers must support Listen Always to work with the HP 16500C. The HP 82906A graphics printer is not supported because it does not support Listen Always on HP-IB.

The HP 2932A or HP 2934A option 046 printer is configured from the front panel of the printer, instead of with switches on the rear panel. The correct configuration for the HP 16500C is shown in the figure below.

**See Also**

Refer to the *HP 16500C Programmer's Guide* for information on setting up an external controller to activate the printer.

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*****  SETTINGS  *****
***** LIST *****
***** MODIFY *****
PRINTER  INTERFACE  PRINTER  INTERFACE

*****  LIST INTERFACE  *****

                        HP-IB

SECONDARY COMMANDS  LISTEN ALWAYS  SERVICE REQUEST  ADDRESS  SET DEFAULTS
                   off                on                off                1

*****  END OF SETTINGS  *****

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**Configuration for the HP 2932/34 Option 046**