

HEWLETT  PACKARD


98
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**11283B/F
PRINTER
CONTROL ROM**

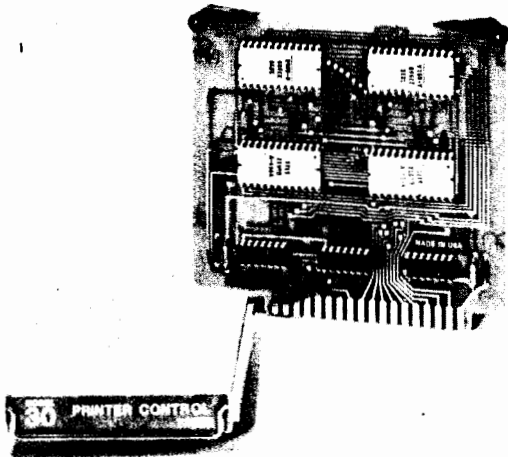
TECHNICAL DATA* FEBRUARY 1976

THIS IS AN EXAMPLE OF PRINTING AT
12 CHARACTERS/INCH AND 8 LINES/INCH.

THIS IS AN EXAMPLE OF PRINTING AT
10 CHARACTERS/INCH AND 6 LINES/INCH.

LIST

```
10 SHTAB 3
20 PRTAB
30 FORMS 5,5,6
40 PSPACE 12,8
50 PRINT "THIS IS AN EXAMPLE OF PRINTING AT"
60 PRINT "12 CHARACTERS/INCH AND 8 LINES/INCH."
70 PRINT
80 PSPACE 10,6
90 PRINT "THIS IS AN EXAMPLE OF PRINTING AT"
100 PRINT "10 CHARACTERS/INCH AND 6 LINES/INCH."
110 FFEED
120 END
```



GENERAL

The HP 9830A Calculator allows the addition of up to 8 add-on ROM's. Five may be added as external plug-in ROM's and 3 as internal plug-ins.

There is no difference in the operation of a ROM whether installed externally or internally. It is a simple matter of available space and design.

Add-on ROM's expand the command set of the 9830. This allows the user to tailor his 9830 with exactly the peripheral control and language features he requires.

DESCRIPTION

The HP 11283B/F Printer Control ROM provides additional statements to the vocabulary of the 9830. These statements permit simple control of the HP 9871A Printer. Although this ROM adds no new capability to the 9871, the 11283 aids considerably in reducing the programming task required. It adds 1024 words of additional read-only memory capability while requiring only 53 words of read/write memory for bookkeeping functions.

The printer control ROM command set consists of printing, plotting, and form-handling commands as illustrated in the table below. These control commands are designed to aid in producing printed forms and graphical outputs. The plotting commands, similar to those of the HP 11271A Plotter Control ROM, are easy to use. This simplicity of operation allows you to spend less time debugging programs and more time analyzing results.

TABLE OF PRINTER ROM OPERATIONS

Plotting Commands	Variables	Remarks
SELECT	Select Code	Defines printer Select Code.
PSCALE	X _{min} , X _{max} , Y _{min} , Y _{max}	Sets X and Y range in user units.
POFFSET	X _{off} , Y _{off}	Temporarily shifts the origin point.
PXAXIS	Y _{off} [, tic [, X _{beg} , X _{end}]]	Draws X axis with tic marks.
PYAXIS	X _{off} [, tic [, Y _{beg} , Y _{end}]]	Draws Y axis with tic marks.
P PLOT	X, Y[, fill control [, end character]]	Moves printer to X, Y point and prints end character, if specified. Fills the line with specified fill character.
PIPLOT	X; Y[, fill control[, end character]]	Incremental X, Y plot specified as P PLOT
PCPLOT	Space horizontal, space vertical	Moves printer vertically and horizontally.
PLETTER		Mode to output each character as entered on keyboard.
FILL	Character [, interval [, offset]]	Sets up plot fill parameters.
Forms Commands	Variables	Remarks
FEED		Feeds form to next top of page.
SHTAB	T ₁ , T ₂ , ... T _n	Sets horizontal tabs in list.
SVTAB	T ₁ , T ₂ , ... T _n	Sets vertical tabs in list.
CHTAB	T ₁ , T ₂ , ... T _n	Clears horizontal tabs in list.
CVTAB	T ₁ , T ₂ , ... T _n	Clears vertical tabs in list.
CAHTAB		Clears all horizontal tabs.
CAVTAB		Clears all vertical tabs.
VIEW	Time	Sets delay before view occurs.
PSPACE	H, V	Sets characters and lines per inch.
PRTAB	[H[, V]]	Tabs horizontally and vertically.
FORMS-	[W, L, F]	Sets form dimensions.
PTYPE		Edits and types from line in display.
RESET		Sets printer to its turn-on state.
BACK	N	Backspaces N times.
MOVE	H, V	Move to a point.
tone		Sounds printer bell.

SPECIFICATIONS

Memory: 2048 8-bit bytes (1024 words)
 Power: Supplied by the 9830 Calculator
 Temperature: 0° C to 45° C ambient
 (Specifications below for external plug-in ROM)
 Height: 15 mm (0.6 in)
 Width: 73 mm (2.9 in)
 Length: 110 mm (4.4 in)
 Weight: 86 g (3 oz)

ORDERING INFORMATION

The printer control ROM described in this data sheet is available in external and internal configurations.

External p/n 11283B
 Internal p/n 11283F (field installed)
 Internal Opt. 273 (factory installed)

Accessory Supplied:

Operating Manual 09830-90067

PURCHASE PLANS

Contact one of the Hewlett-Packard worldwide sales and service offices for specific prices and plans in your area.

MAINTENANCE AGREEMENTS

Maintenance agreements are available for all calculator products. Current U.S. rates are to be found in the Maintenance Service and Prices publication, Part Number 5952-2432D. These agreements represent HP's best level of support. Major advantages to the customer include:

- Fixed annual cost,
- Priority service response,
- On-site service,
- Regular maintenance,
- A complete package tailored to the customer's needs.

*Data subject to change.



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